

NB, NBE, NK, NKE

Bomba monobloc de aspiración axial según EN 733
50 Hz



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Introducción

Las NK y NB son bombas para múltiples usos, adecuadas para una variedad de aplicaciones que requieran un suministro seguro y económico.

Las bombas NB y NK se usan en cinco campos principales de aplicación:

- suministro de agua
- Aumento de presión en sistemas industriales
- trasiego industrial de líquidos
- HVAC
- riego.

Suministro de agua

Además de suministro general de agua en instalaciones de abastecimiento municipales e industriales, las bombas NB y NK se utilizan para las siguientes aplicaciones específicas:

- filtrado y trasiego en instalaciones de suministro de agua
- aumento de presión en tuberías
- aumento de presión en edificios altos, hoteles, etc.
- aumento de presión en edificios industriales
- diferentes aplicaciones en instalaciones de piscinas.

Aumento de presión en sistemas industriales

Aumento de presión en:

- sistemas de lavado y limpieza en la industria
- Sistemas de baldeo industriales,
- túneles de lavado de vehículos
- sistemas contra incendios.

Trasiego industrial de líquidos

Trasiego de líquidos en:

- sistemas de refrigeración y aire acondicionado (refrigerantes)
- alimentación de calderas y sistemas de condensación
- piscifactorías
- sistemas de calefacción industriales
- plantas de calefacción de distrito.

HVAC

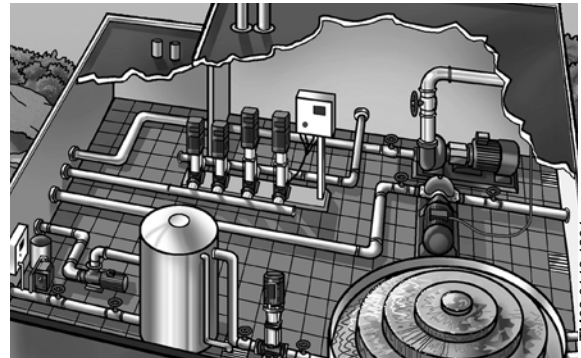
Trasiego de líquidos en:

- sistemas de calefacción
- sistemas de ventilación
- sistemas de aire acondicionado

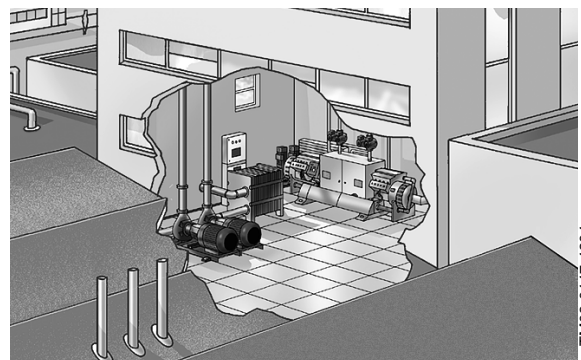
Riego

El riego incluye las siguientes aplicaciones:

- riego de campos (inundación)
- riego por aspersores
- riego por goteo.



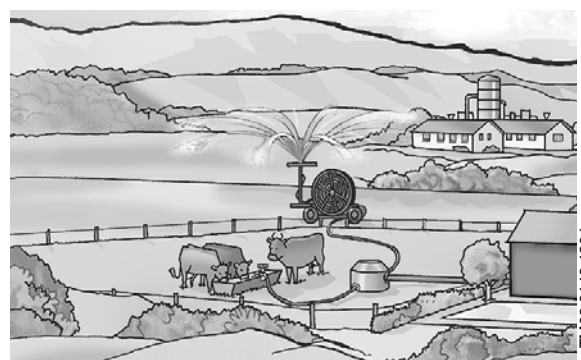
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Características y ventajas

Las bombas NB y NK presentan las siguientes características y ventajas:

- Las bombas son de voluta centrífuga monobloc no autocebantes con puerto de succión axial, puerto de descarga radial y componentes del eje horizontales.
- Las bridas de aspiración y descarga son según EN 1092-2 PN 10 ó 16.
- Tienen dimensiones y características nominales según EN 733 (10 bar). Sin embargo, las bombas con dimensiones de brida hasta DN 150 incl. están marcadas como PN 16 y permiten el funcionamiento a 16 bar.
- La bomba NB está acoplada directamente a un motor estándar totalmente cerrado, refrigerado por ventilador y con dimensiones principales según normas IEC y DIN.
- La bomba NK no está directamente acoplada a un motor estándar totalmente cerrado, refrigerado por ventilador con dimensiones principales según normas IEC y DIN y designación de montaje B3 (IM 1001).
- Las dimensiones del cierre mecánico son según EN 12756.
- Las bombas NB y NK ofrecen caudales de 2 a 2000 m³/h y alturas de 2 a 160 m. Los tamaños del motor están comprendidos en la gama de 0,37 a 355 kW.
- Las bombas con necesidades de potencia de 1,1 a 22 kW están disponibles con motores con convertidor de frecuencia incorporado. Estas bombas se denominan NBE y NKE.
- Todas las bombas están equilibradas estáticamente según ISO 1940 clase 6.3. Los impulsores están equilibrados hidráulicamente.
- La bomba NK y el motor están montados en una bancada común de acero estirado según EN 23661.
- Las gamas de producto NB y NK están disponibles en dos series de producto, "gama estándar" y "gama alta". Los productos de la gama alta están disponibles con motores de rendimiento 1; los productos de la gama estándar, con motores de rendimiento 2.
- El diseño de las bombas permite el desmontaje del motor, acoplamiento, conjunto de cojinetes e impulsor sin tocar el alojamiento de la bomba o las tuberías. Incluso los modelos más grandes pueden ser reparados por una sola persona y con una sola grúa. Ver fig. 1 y fig. 2.

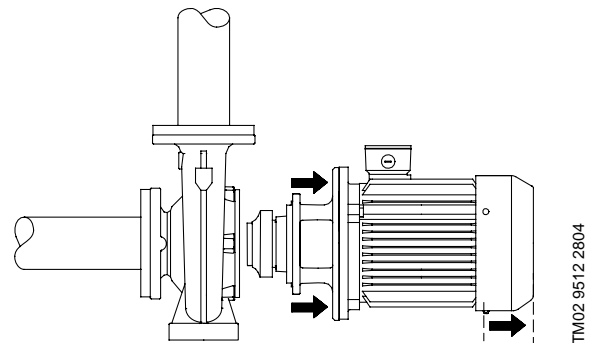


Fig. 1 Diseño NB

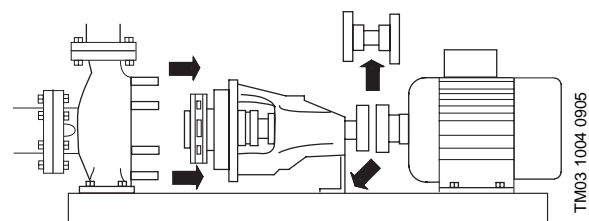


Fig. 2 Diseño NK

Motores de alto rendimiento



Las bombas NB y NK de gama alta de 2 y 4 polos con tamaños de motor de 1,1 a 90 kW están equipadas con motores de rendimiento 1. Rendimiento 1 es la clase de rendimiento más alta según las clases de rendimiento CEMEP.

Bombas con control de velocidad electrónico

Las bombas NB y NK equipadas con un motor con convertidor de frecuencia incorporado y el software de aplicación necesario para alcanzar una solución todo en uno, habilitan el control de velocidad electrónico. Estas bombas se denominan NBE y NKE.

El control de velocidad electrónico posibilita el control continuo de la velocidad del motor que permite de nuevo la adaptación del funcionamiento a una necesidad dada.

Los materiales de las bombas NBE y NKE son los mismos que los de la gama de bombas NB y NK.

Si se instala un sensor, las bombas NBE y NKE permiten cualquiera de estas configuraciones y métodos de control:

- presión constante
- temperature control
- caudal constante.

¿Por qué seleccionar una bomba NBE, NKE?

Seleccionar una bomba NBE, NKE si

- se necesita un funcionamiento controlado
- se requiere presión constante
- se requiere comunicación con la bomba.

Ofrece además las siguientes ventajas obvias:

- ahorros de energía
- mayor confort.

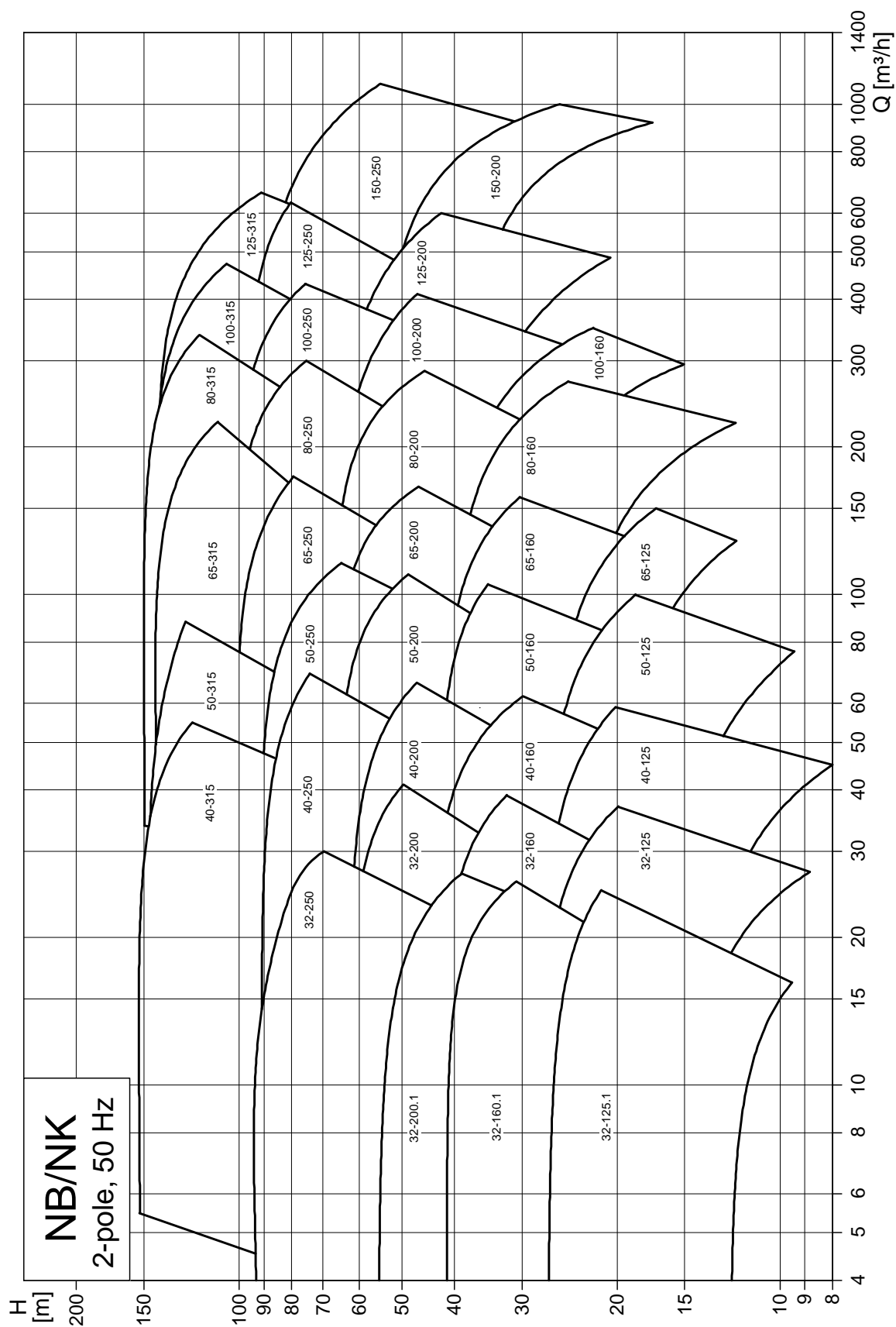
Para obtener más información acerca del control de velocidad electrónico, ver sección "Bombas NB y NK con control de velocidad" en la página 38.

Bombas NB y NK con aprobación ATEX



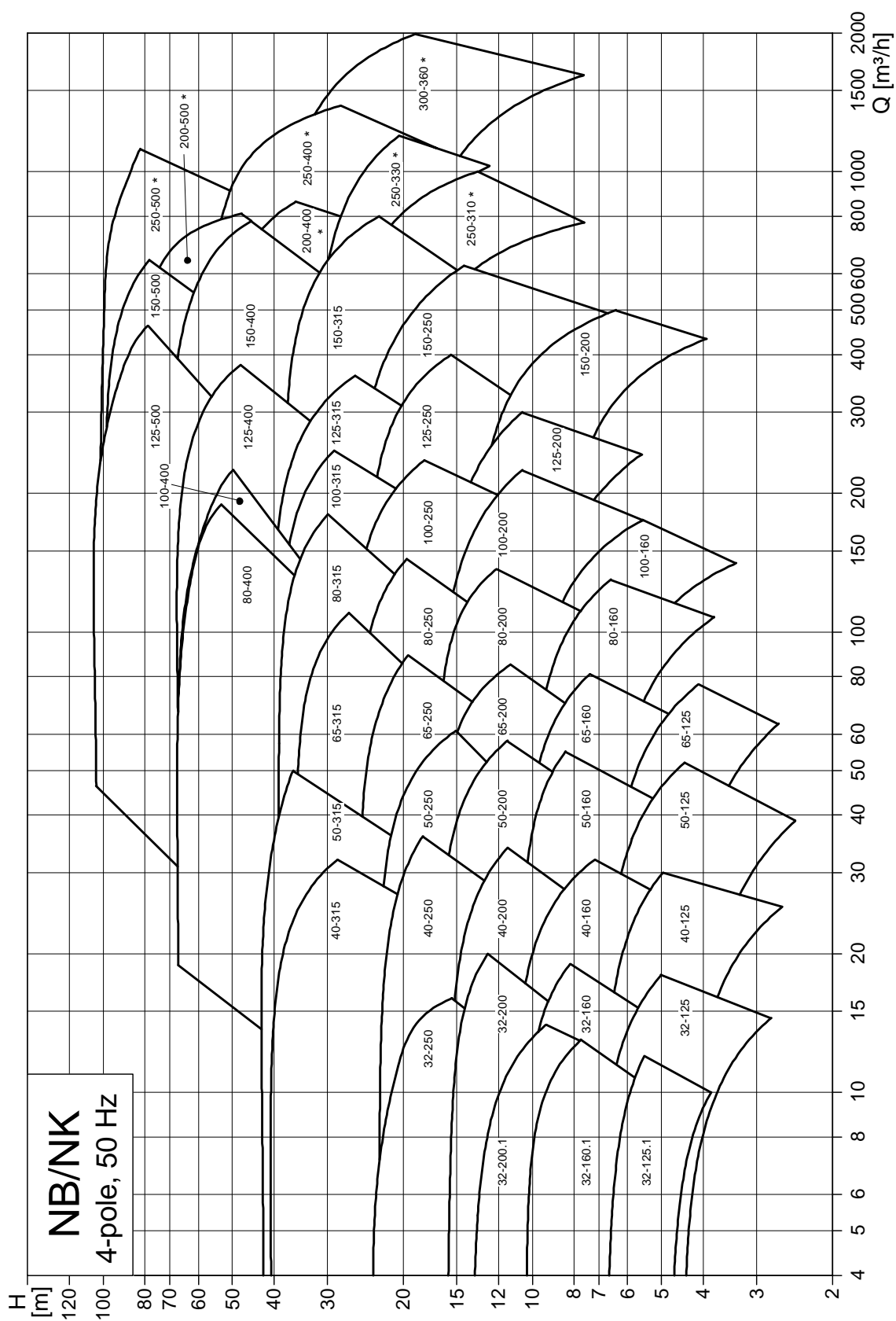
Grundfos ofrece bombas NB y NK con aprobación ATEX de acuerdo con la Directiva 94/9/CE (grupo II, categorías 3G y 3D) bajo pedido. Si está instalada una protección de marcha en seco con aprobación ATEX, la bomba puede ascender a la categoría 2G.

NB, NK, 2 polos



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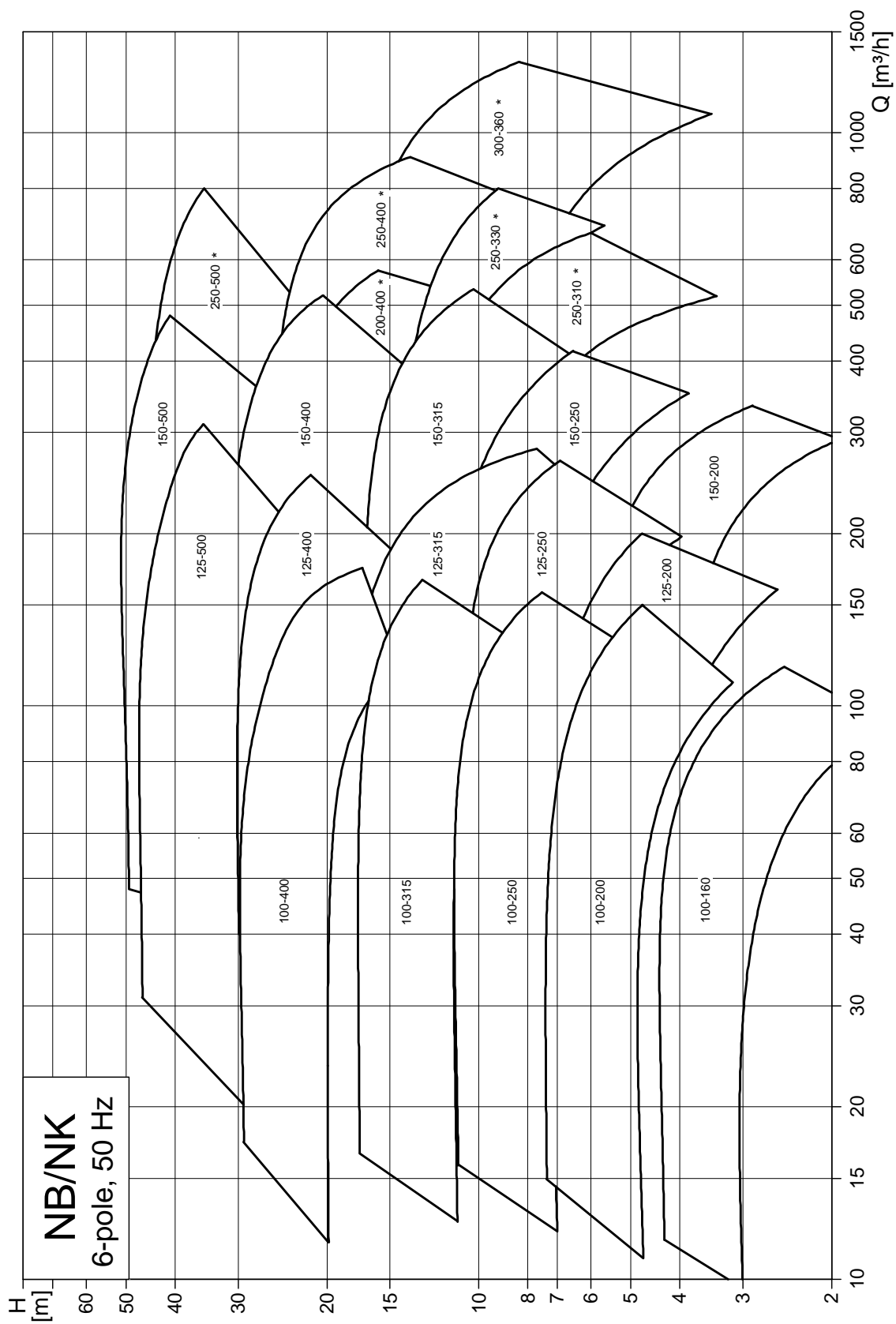
NB, NK, 4 polos



* Sólo disponible como bomba NK.

TM03 5262 4806

NB, NK, 6 polos



* Sólo disponible como bomba NK.

TM03 5263 4806

Las tablas de las siguientes páginas muestran la información de las gamas de producto completas de las bombas NB, NBE y NK, NKE.

La gama estándar se ha combinado en base a los siguientes parámetros:

- Las carcasas de la bomba tienen bridas de descarga DN 32 a 300.
- Los motores son para 50 Hz.
- Las bombas NB y NK están disponibles con motores de 2, 4 y 6 polos; las NBE y NKE con motores de 2 y 4 polos.
- Las bombas NB y NK están disponibles con motores de gama alta y motores de gama estándar.
- Los motores con potencia nominal hasta 4 kW incl. están disponibles para "baja tensión"; los motores desde 2,2 kW están disponibles para "alta tensión".
- La gama de bombas con motores de velocidad controlada electrónicamente (trifásico) cubre motores de 2 polos de 1,5 a 22 kW y motores de 4 polos de 0,75 a 22 kW.

En la mayoría de los casos, las bombas pueden adaptarse a las necesidades del cliente. Para soluciones personalizadas, contactar con Grundfos.

NB, NK, 2 polos

| Tipo de bomba 50 Hz, 2 polos | Modelo NK | Diseño NB | Disponible en acero inoxidable, Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] |
|---------------------------------|-----------|-----------|------------------------------------------------------------------|-----------------|-------|------------------------|
| | | | | PN 10 | PN 16 | |
| 32-125.1 | B | A | | | • | 0,75 |
| | | A | | | • | 1,1 |
| | | A | • | | • | 1,5 |
| | | A | • | | • | 2,2 |
| 32-160.1 | B | A | • | | • | 1,5 |
| | | A | • | | • | 2,2 |
| | | A | • | | • | 3 |
| 32-200.1 | B | A | • | | • | 3 |
| | | A | • | | • | 4 |
| | | A | • | | • | 5,5 |
| | | A | • | | • | 7,5 |
| 32-125 | B | A | • | | • | 1,1 |
| | | A | • | | • | 1,5 |
| | | A | • | | • | 2,2 |
| | | A | • | | • | 3 |
| 32-160 | B | A | • | | • | 2,2 |
| | | A | • | | • | 3 |
| | | A | • | | • | 4 |
| | | A | • | | • | 5,5 |
| 32-200 | B | A | • | | • | 4 |
| | | A | • | | • | 5,5 |
| | | A | • | | • | 7,5 |
| | | C | • | | • | 11 |
| 32-250 | B | A | • | • | • | 5,5 |
| | | A | • | • | • | 7,5 |
| | | C | • | • | • | 11 |
| | | C | • | • | • | 15 |
| 40-125 | B | A | • | • | • | 1,5 |
| | | A | • | • | • | 2,2 |
| | | A | • | • | • | 3 |
| | | A | • | • | • | 4 |
| | | A | • | • | • | 5,5 |
| 40-160 | B | A | • | • | • | 4 |
| | | A | • | • | • | 5,5 |
| | | A | • | • | • | 7,5 |
| | | C | • | • | • | 11 |
| 40-200 | B | A | • | • | • | 5,5 |
| | | A | • | • | • | 7,5 |
| | | B | • | • | • | 11 |
| | | B | • | • | • | 15 |
| 40-250 | B | B | • | • | • | 11 |
| | | B | • | • | • | 15 |
| | | B | • | • | • | 18,5 |
| | | B | • | • | • | 22 |
| | | B | • | • | • | 30 |

| Tipo de bomba 50 Hz, 2 polos | Modelo NK | Diseño NB | Disponible en acero inoxidable, Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] |
|---------------------------------|-----------|-----------|------------------------------------------------------------------|-----------------|-------|------------------------|
| | | | | PN 10 | PN 16 | |
| 40-315 | B | C | • | | • | 22 |
| | | C | • | | • | 30 |
| | | C | • | | • | 37 |
| | | C | • | | • | 45 |
| | | C | • | | • | 55 |
| 50-125 | B | A | • | • | • | 3 |
| | | A | • | • | • | 4 |
| | | A | • | • | • | 5,5 |
| | | A | • | • | • | 7,5 |
| 50-160 | B | A | • | • | • | 5,5 |
| | | A | • | • | • | 7,5 |
| | | B | • | • | • | 11 |
| | | B | • | • | • | 15 |
| 50-200 | B | B | • | • | • | 11 |
| | | B | • | • | • | 15 |
| | | B | • | • | • | 18,5 |
| | | B | • | • | • | 22 |
| 50-250 | B | B | • | • | • | 15 |
| | | B | • | • | • | 18,5 |
| | | B | • | • | • | 22 |
| | | B | • | • | • | 30 |
| 50-315 | B | C | • | | • | 30 |
| | | C | • | | • | 37 |
| | | C | • | | • | 45 |
| | | C | • | | • | 55 |
| | | C | • | | • | 75 |
| 65-125 | B | A | • | • | • | 4 |
| | | A | • | • | • | 5,5 |
| | | A | • | • | • | 7,5 |
| | | C | • | • | • | 11 |
| 65-160 | B | A | • | • | • | 7,5 |
| | | B | • | • | • | 11 |
| | | B | • | • | • | 15 |
| 65-200 | B | B | • | • | • | 18,5 |
| | | B | • | • | • | 11 |
| | | B | • | • | • | 15 |
| | | B | • | • | • | 18,5 |
| | | B | • | • | • | 22 |
| 65-250 | B | B | • | • | • | 30 |
| | | B | • | • | • | 37 |
| | | B | • | • | • | 45 |
| | | B | • | • | • | 55 |

Gama de producto

NB, NBE, NK, NKE

| Tipo de bomba 50 Hz, 2 polos | Modelo NK | Diseño NB | Disponible en acero inoxidable, Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] |
|---------------------------------|-----------|-----------|------------------------------------------------------------------|-----------------|-------|------------------------|
| | | | | PN 10 | PN 16 | |
| 65-250 | B | C | • | | • | 30 |
| | | C | • | | • | 37 |
| | | C | • | | • | 45 |
| | | C | • | | • | 55 |
| | | C | • | | • | 75 |
| 65-315 | B | C | • | | • | 55 |
| | | C | • | | • | 75 |
| | | C | • | | • | 90 |
| | | C | • | | • | 110 |
| 80-160 | B | B | • | • | • | 11 |
| | | B | • | • | • | 15 |
| | | B | • | • | • | 18,5 |
| | | B | • | • | • | 22 |
| | | B | • | | • | 30 |
| 80-200 | B | C | • | • | • | 22 |
| | | C | • | | • | 30 |
| | | C | • | | • | 37 |
| | | C | • | | • | 45 |
| | | C | • | | • | 55 |
| 80-250 | B | C | • | | • | 45 |
| | | C | • | | • | 55 |
| | | C | • | | • | 75 |
| | | C | • | | • | 90 |
| 80-315 | B | C | • | | • | 90 |
| | | C | • | | • | 110 |
| | | C | • | | • | 132 |
| | | C | • | | • | 160 |
| 100-160 | B | C | | • | • | 22 |
| | | C | | | • | 30 |
| | | C | | | • | 37 |
| 100-200 | B | C | | | • | 30 |
| | | C | | | • | 37 |
| | | C | | | • | 45 |
| | | C | | | • | 55 |
| 100-250 | B | C | | | • | 75 |
| | | C | | | • | 55 |
| | | C | | | • | 75 |
| | | C | | | • | 90 |
| | | C | | | • | 110 |
| 100-315 | B | C | | | • | 110 |
| | | C | | | • | 132 |
| | | C | | | • | 160 |
| | | C | | | • | 200 |
| | | - | | | • | 250 |

| Tipo de bomba 50 Hz, 2 polos | Modelo NK | Diseño NB | Disponible en acero inoxidable, Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] |
|---------------------------------|-----------|-----------|------------------------------------------------------------------|-----------------|-------|------------------------|
| | | | | PN 10 | PN 16 | |
| 125-200 | B | C | | | • | 45 |
| | | C | | | • | 55 |
| | | C | | | • | 75 |
| | | C | | | • | 90 |
| | | C | | | • | 110 |
| 125-250 | B | C | | | • | 90 |
| | | C | | | • | 110 |
| | | C | | | • | 132 |
| | | C | | | • | 160 |
| 125-315 | B | C | | | • | 200 |
| | | C | | | • | 132 |
| | | C | | | • | 160 |
| | | C | | | • | 200 |
| 150-200 | B | - | | | • | 250 |
| | | C | | | • | 75 |
| | | C | | | • | 90 |
| 150-250 | B | C | | | • | 110 |
| | | C | | | • | 132 |
| | | C | | | • | 160 |
| | | C | | | • | 200 |
| | | - | | | • | 250 |

NB, NK, 4 polos

| Tipo de bomba 50 Hz, 4 polos | Modelo NK | Diseño NB | Disponible como acero inoxidable | Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] | |
|---------------------------------|-----------|-----------|-------------------------------------|----------------------------|-----------------|-------|------------------------|------|
| | | | | | PN 10 | PN 16 | | |
| 32-125.1 | B | A | | | | • | 0,25 | |
| | | A | | | | • | 0,25 | |
| | | A | | | | | • | 0,37 |
| 32-160.1 | B | A | | | | • | 0,25 | |
| | | A | | | | • | 0,25 | |
| | | A | | | | | • | 0,37 |
| 32-200.1 | B | A | | | | • | 0,37 | |
| | | A | | | | • | 0,55 | |
| | | A | | • | | | • | 0,75 |
| 32-125 | B | A | | | | • | 0,25 | |
| | | A | | | | • | 0,25 | |
| | | A | | | | | • | 0,37 |
| 32-160 | B | A | | | | • | 0,25 | |
| | | A | | | | • | 0,37 | |
| | | A | | | | | • | 0,55 |
| | | A | | • | | | • | 0,75 |
| 32-200 | B | A | | | | • | 0,55 | |
| | | A | | • | | • | 0,75 | |
| | | A | | • | | • | 1,1 | |
| | | A | | • | | • | 1,5 | |
| 32-250 | B | A | • | • | | • | 0,75 | |
| | | A | • | • | | • | 1,1 | |
| | | A | • | • | | • | 1,5 | |
| | | A | • | • | | • | 2,2 | |
| 40-125 | B | A | • | | | • | 0,25 | |
| | | A | • | | | • | 0,37 | |
| | | A | • | | | • | 0,55 | |
| 40-160 | B | A | • | | | • | 0,37 | |
| | | A | • | | | • | 0,55 | |
| | | A | • | • | | • | 0,75 | |
| | | A | • | • | | • | 1,1 | |
| 40-200 | B | A | • | • | | • | 0,75 | |
| | | A | • | • | | • | 1,1 | |
| | | A | • | • | | • | 1,5 | |
| | | A | • | • | | • | 2,2 | |
| 40-250 | B | A | • | • | | • | 1,5 | |
| | | A | • | • | | • | 2,2 | |
| | | A | • | • | | • | 3 | |
| 40-315 | B | A | • | • | | • | 3 | |
| | | A | • | • | | • | 4 | |
| | | A | • | • | | • | 5,5 | |
| | | A | • | • | | • | 7,5 | |

| Tipo de bomba 50 Hz, 4 polos | Modelo NK | Diseño NB | Disponible como acero inoxidable | Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] |
|---------------------------------|-----------|-----------|-------------------------------------|----------------------------|-----------------|-------|------------------------|
| | | | | | PN 10 | PN 16 | |
| 50-125 | B | A | • | • | | • | 0,37 |
| | | A | • | • | | • | 0,55 |
| | | A | • | • | | • | 0,75 |
| | | A | • | • | | • | 1,1 |
| 50-160 | B | A | • | | | • | 0,55 |
| | | A | • | • | | • | 0,75 |
| | | A | • | • | | • | 1,1 |
| | | A | • | • | | • | 1,5 |
| 50-200 | B | A | • | • | | • | 2,2 |
| | | A | • | • | | • | 1,1 |
| | | A | • | • | | • | 1,5 |
| | | A | • | • | | • | 2,2 |
| 50-250 | B | A | • | • | | • | 3 |
| | | A | • | • | | • | 2,2 |
| | | A | • | • | | • | 1,1 |
| | | A | • | • | | • | 0,75 |
| 50-315 | B | A | • | • | | • | 4 |
| | | A | • | • | | • | 5,5 |
| | | A | • | • | | • | 7,5 |
| | | C | • | • | | • | 11 |
| 65-125 | B | A | • | | | • | 0,55 |
| | | A | • | • | | • | 0,75 |
| 65-160 | B | A | • | • | | • | 1,1 |
| | | A | • | • | | • | 0,75 |
| | | A | • | • | | • | 1,5 |
| | | A | • | • | | • | 2,2 |
| 65-200 | B | A | • | • | | • | 1,5 |
| | | A | • | • | | • | 2,2 |
| | | A | • | • | | • | 3 |
| | | A | • | • | | • | 4 |
| 65-250 | B | A | • | • | | • | 3 |
| | | A | • | • | | • | 4 |
| | | A | • | • | | • | 5,5 |
| | | A | • | • | | • | 7,5 |
| 65-315 | B | A | • | • | | • | 5,5 |
| | | A | • | • | | • | 7,5 |
| | | C | • | • | | • | 11 |
| | | C | • | • | | • | 15 |
| 80-160 | B | A | • | • | | • | 1,5 |
| | | A | • | • | | • | 2,2 |
| | | A | • | • | | • | 3 |
| | | • | • | • | | • | 4 |

Gama de producto

NB, NBE, NK, NKE

| Tipo de bomba 50 Hz, 4 polos | Modelo NK | Diseño NB | Disponible como acero inoxidable | Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] |
|---------------------------------|-----------|-----------|-------------------------------------|----------------------------|-----------------|-------|------------------------|
| | | | | | PN 10 | PN 16 | |
| 80-200 | B | A | • | • | | • | 2,2 |
| | | A | | | | • | 3 |
| | | A | • | • | | • | 4 |
| | | A | • | • | | • | 5,5 |
| | | A | • | • | | • | 7,5 |
| 80-250 | B | A | • | • | | • | 5,5 |
| | | A | • | • | | • | 7,5 |
| | | C | • | • | | • | 11 |
| 80-315 | B | C | • | • | | • | 11 |
| | | C | • | • | | • | 15 |
| | | C | • | • | | • | 18,5 |
| | | C | • | • | | • | 22 |
| | | C | • | • | | • | 18,5 |
| 80-400 | B | C | • | • | | • | 22 |
| | | C | • | • | | • | 30 |
| | | C | • | • | | • | 37 |
| | | C | • | • | | • | 45 |
| | | C | • | • | | • | 18,5 |
| 100-160 | B | A | | • | | • | 2,2 |
| | | A | | • | | • | 3 |
| | | A | | • | | • | 4 |
| | | A | | • | | • | 4 |
| 100-200 | B | A | | • | | • | 5,5 |
| | | A | | • | | • | 7,5 |
| | | C | | • | | • | 11 |
| | | A | | • | | • | 7,5 |
| | | C | | • | | • | 11 |
| 100-250 | B | C | | • | | • | 15 |
| | | C | | • | | • | 18,5 |
| | | C | | • | | • | 15 |
| 100-315 | B | C | | • | | • | 18,5 |
| | | C | | • | | • | 22 |
| | | C | | • | | • | 30 |
| | | C | | • | | • | 22 |
| 100-400 | B | C | | • | | • | 30 |
| | | C | | • | | • | 37 |
| | | C | | • | | • | 45 |
| | | C | | • | | • | 55 |
| | | C | | • | | • | 75 |
| | | C | | • | | • | 5,5 |
| | | C | | • | | • | 7,5 |
| 125-200 | B | C | | • | | • | 11 |
| | | C | | • | | • | 15 |
| | | C | | • | | • | 11 |
| 125-250 | B | C | | • | | • | 15 |
| | | C | | • | | • | 18,5 |
| | | C | | • | | • | 22 |
| | | C | | • | | • | 30 |
| | | C | | • | | • | 30 |

| Tipo de bomba 50 Hz, 4 polos | Modelo NK | Diseño NB | Disponible como acero inoxidable | Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] |
|---------------------------------|-----------|-----------|-------------------------------------|----------------------------|-----------------|-------|------------------------|
| | | | | | PN 10 | PN 16 | |
| 125-315 | B | C | | • | | • | 18,5 |
| | | C | | • | | • | 22 |
| | | C | | • | | • | 30 |
| | | C | | • | | • | 37 |
| | | C | | • | | • | 45 |
| 125-400 | B | C | | • | | • | 37 |
| | | C | | • | | • | 45 |
| | | C | | • | | • | 55 |
| | | C | | • | | • | 75 |
| | | C | | • | | • | 90 |
| 125-500 | B | C | | • | | • | 55 |
| | | C | | • | | • | 75 |
| | | C | | • | | • | 90 |
| | | C | | • | | • | 110 |
| | | C | | • | | • | 132 |
| | | C | | • | | • | 160 |
| 150-200 | B | A | | • | • | | 7,5 |
| | | C | | • | • | | 11 |
| | | C | | • | • | | 15 |
| 150-250 | B | C | | • | • | | 15 |
| | | C | | • | • | | 18,5 |
| | | C | | • | • | | 22 |
| | | C | | • | • | | 30 |
| | | C | | • | • | | 37 |
| | | C | | • | • | | 45 |
| | | C | | • | • | | 37 |
| 150-315 | B | C | | • | • | | 45 |
| | | C | | • | • | | 55 |
| | | C | | • | • | | 75 |
| | | C | | • | • | | 90 |
| | | C | | • | • | | 55 |
| 150-400 | B | C | | • | • | | 75 |
| | | C | | • | • | | 90 |
| | | C | | • | • | | 110 |
| | | C | | • | • | | 132 |
| | | C | | • | • | | 160 |
| 150-500 | B | C | | • | • | | 132 |
| | | C | | • | • | | 160 |
| 200-400 | A | - | | • | • | | 45 |
| | | - | | • | • | | 55 |
| | | - | | • | • | | 75 |
| | | - | | • | • | | 90 |
| | | - | | • | • | | 110 |
| | | - | | • | • | | 132 |
| | | - | | • | • | | 132 |

Gama de producto

NB, NBE, NK, NKE

| Tipo de bomba 50 Hz, 4 polos | Modelo NK | Diseño NB | Disponible como acero inoxidable | Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] |
|---------------------------------|-----------|-----------|-------------------------------------|----------------------------|--------------------|-------|------------------------|
| | | | | | PN 10 | PN 16 | |
| 200-500 | A | - | | | • | | 55 |
| | | - | | | • | | 75 |
| | | - | | | • | | 90 |
| | | - | | | • | | 110 |
| | | - | | | • | | 132 |
| | | - | | | • | | 160 |
| | | - | | | • | | 200 |
| | | - | | | • | | 250 |
| 250-310 | A | - | | | • | | 30 |
| | | - | | | • | | 37 |
| | | - | | | • | | 45 |
| | | - | | | • | | 55 |
| | | - | | | • | | 75 |
| 250-330 | A | - | | | • | | 55 |
| | | - | | | • | | 75 |
| | | - | | | • | | 90 |
| | | - | | | • | | 110 |
| | | - | | | • | | 160 |
| 250-400 | A | - | | | • | | 55 |
| | | - | | | • | | 75 |
| | | - | | | • | | 90 |
| | | - | | | • | | 110 |
| | | - | | | • | | 132 |
| | | - | | | • | | 160 |
| | | - | | | • | | 200 |
| 250-500 | A | - | | | • | | 90 |
| | | - | | | • | | 110 |
| | | - | | | • | | 132 |
| | | - | | | • | | 160 |
| | | - | | | • | | 200 |
| | | - | | | • | | 250 |
| | | - | | | • | | 315 |
| 300-360 | A | - | | | • | | 55 |
| | | - | | | • | | 75 |
| | | - | | | • | | 90 |
| | | - | | | • | | 110 |
| | | - | | | • | | 132 |
| - | | | • | | 160 | | |

NB, NK, 6 polos

| Tipo de bomba 50 Hz, 6 polos | Modelo NK | Diseño NB | Disponible como acero inoxidable | Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] | |
|---------------------------------|-----------|-----------|-------------------------------------|----------------------------|--------------------|-------|------------------------|------|
| | | | | | PN 10 | PN 16 | | |
| 100-160 | B | A | | | | • | 0,55 | |
| | | A | | | | • | 0,75 | |
| | | A | | | | | • | 1,1 |
| 100-200 | B | A | | | | • | 1,1 | |
| | | A | | | | • | 1,5 | |
| | | A | | | | | • | 2,2 |
| | | A | | | | | • | 3 |
| | | A | | | | | • | 2,2 |
| 100-250 | B | A | | | | • | 3 | |
| | | A | | | | • | 4 | |
| | | A | | | | | • | 5,5 |
| | | A | | | | | • | 4 |
| 100-315 | B | A | | | | • | 5,5 | |
| | | C | | | | • | 7,5 | |
| | | C | | | | | • | 11 |
| | | C | | | | | • | 7,5 |
| | | C | | | | | • | 11 |
| 100-400 | B | C | | | | • | 15 | |
| | | C | | | | • | 18,5 | |
| | | C | | | | | • | 1,5 |
| | | C | | | | | • | 2,2 |
| 125-200 | B | A | | | | • | 3 | |
| | | A | | | | • | 4 | |
| | | A | | | | | • | 3 |
| 125-250 | B | A | | | | • | 4 | |
| | | A | | | | • | 5,5 | |
| | | A | | | | | • | 7,5 |
| | | A | | | | | • | 5,5 |
| 125-315 | B | C | | | | • | 7,5 | |
| | | C | | | | • | 11 | |
| | | C | | | | | • | 15 |
| 125-400 | B | C | | | | • | 11 | |
| | | C | | | | • | 15 | |
| | | C | | | | | • | 18,5 |
| | | C | | | | | • | 22 |
| | | C | | | | | • | 30 |
| | | C | | | | | • | 18,5 |
| | | C | | | | | • | 22 |
| 125-500 | B | C | | | | • | 30 | |
| | | C | | | | • | 37 | |
| | | C | | | | | • | 45 |
| | | C | | | | | • | 55 |
| | | A | | | | • | 2,2 | |
| | | A | | | | • | 3 | |
| 150-200 | B | A | | | | • | 4 | |

Gama de producto

NB, NBE, NK, NKE

| Tipo de bomba 50 Hz, 6 polos | Modelo NK | Diseño NB | Disponible como acero inoxidable | Disponible como NBE/NKE | Presión nominal | | P ₂ [kW] |
|---------------------------------|-----------|-----------|-------------------------------------|----------------------------|-----------------|-------|------------------------|
| | | | | | PN 10 | PN 16 | |
| 150-250 | B | A | | | • | | 4 |
| | | A | | | • | | 5,5 |
| | | C | | | • | | 7,5 |
| | | C | | | • | | 11 |
| 150-315 | B | C | | | • | | 11 |
| | | C | | | • | | 15 |
| | | C | | | • | | 18,5 |
| 150-400 | B | C | | | • | | 22 |
| | | C | | | • | | 18,5 |
| | | C | | | • | | 22 |
| | | C | | | • | | 30 |
| | | C | | | • | | 37 |
| 150-500 | B | C | | | • | | 45 |
| | | C | | | • | | 37 |
| | | C | | | • | | 45 |
| | | C | | | • | | 55 |
| | | C | | | • | | 75 |
| 200-400 | A | - | | | • | | 90 |
| | | - | | | • | | 18,5 |
| | | - | | | • | | 22 |
| | | - | | | • | | 30 |
| 250-310 | A | - | | | • | | 37 |
| | | - | | | • | | 11 |
| | | - | | | • | | 15 |
| 250-330 | A | - | | | • | | 18,5 |
| | | - | | | • | | 18,5 |
| | | - | | | • | | 22 |
| 250-400 | A | - | | | • | | 30 |
| | | - | | | • | | 37 |
| | | - | | | • | | 45 |
| | | - | | | • | | 55 |
| | | - | | | • | | 18,5 |
| 250-500 | A | - | | | • | | 22 |
| | | - | | | • | | 30 |
| | | - | | | • | | 37 |
| | | - | | | • | | 45 |
| | | - | | | • | | 55 |
| 300-360 | A | - | | | • | | 75 |
| | | - | | | • | | 90 |
| | | - | | | • | | 110 |
| | | - | | | • | | 22 |
| | | - | | | • | | 30 |

Nomenclatura NB

El ejemplo muestra una bomba NB 32-125.1, 50 Hz, con un impulsor de 142 mm, hecha de fundición y con cierre BAQE.

| Ejemplo | NB 32 -125 .1 /142 A -F -A -BAQE |
|-----------------------------------------------------------------------------------------------|----------------------------------|
| Gama | |
| Diámetro nominal de descarga (DN) | |
| Diámetro nominal del impulsor [mm] | |
| Funcionamiento reducido = .1 | |
| Diámetro actual de impulsor [mm] | |
| Código para versión de bomba (pueden combinarse los códigos) | |
| A = Versión básica | |
| B = Motor sobredimensionado | |
| C = Sin motor | |
| D = Cuerpo de bomba con patas | |
| E = Con aprobación ATEX, certificado o informe de pruebas | |
| X = Versión especial | |
| Código para la conexión de tubería: | |
| F = Brida DIN (EN 1092-2) | |
| Código materiales: | |
| A = Alojamiento de bomba EN-GJL-250 e impulsor, anillo de desgaste en bronce | |
| B = Alojamiento de bomba EN-GJL-250 e impulsor en bronce CuSn10, anillo de desgaste en bronce | |
| S = Alojamiento de bomba EN-GJL-250 e impulsor 1.4408, anillo de desgaste en bronce | |
| N = Alojamiento de bomba e impulsor 1.4408, anillo de desgaste en Graflon | |
| R = Alojamiento de bomba e impulsor 1.4517, anillo de desgaste en Graflon | |
| P = Alojamiento de bomba 1.4408, impulsor 1.4517, anillo de desgaste en Graflon | |
| K = Alojamiento de bomba e impulsor 1.4408, anillo de desgaste 1.4517 | |
| L = Alojamiento de bomba 1.4517, impulsor y anillo de desgaste | |
| M = Alojamiento de bomba 1.4408, propulsor 1.4517 y anillo de desgaste | |
| X = Versión especial | |
| Código para cierre mecánico y componentes de goma de la bomba | |

Nomenclaturas NK

Modelo A

El ejemplo muestra una bomba NK 200-400, 50 Hz, con un impulsor de 377 mm, hecha de fundición y con cierre BAQE.

Nota: Para bombas sin motor, se omiten los datos del motor; para bombas a eje libre se omiten los datos del acoplamiento y del motor.

| Ejemplo | NK 200 -400 /377 /A W /BAQE /1 /75 /4 |
|----------------------------------------|---------------------------------------|
| Gama | |
| Diámetro nominal de descarga (DN) | |
| Diámetro nominal del impulsor [mm] | |
| Diámetro actual de impulsor [mm] | |
| Código materiales: | |
| A = Fundición EN-GJL-250 | |
| B = EN-GJL-2520 con impulsor en bronce | |
| W = Anillo(s) de desgaste | |
| Código de prensaestopas o cierre | |
| Tipo de acoplamiento: | |
| 1 = Estándar | |
| 2 = Espaciador | |
| Potencia motor [kW] | |
| Motor de 2, 4 ó 6 polos | |

Modelo B

El ejemplo muestra una bomba NK 32-125.1, 50 Hz, con un impulsor de 142 mm y un acoplamiento estándar, hecha de fundición y con cierre BAQE.

| Ejemplo | NK 32 -125 .1 /142 A1 -F -A -BAQE |
|-----------------------------------------------------------------------------------------------|-----------------------------------|
| Gama | |
| Diámetro nominal de descarga (DN) | |
| Diámetro nominal del impulsor [mm] | |
| Funcionamiento reducido = .1 | |
| Diámetro actual de impulsor [mm] | |
| Código para versión de bomba (pueden combinarse los códigos) | |
| A1 = Versión básica con acoplamiento estándar | |
| A2 = Versión básica con acoplamiento espaciador | |
| AH = Bomba a eje libre | |
| C = Sin motor | |
| E = Con aprobación ATEX, certificado o informe de pruebas | |
| X = Versión especial | |
| Código para la conexión de tubería | |
| F = Brida DIN (EN 1092-2) | |
| Código materiales: | |
| A = Alojamiento de bomba EN-GJL-250 e impulsor, anillo de desgaste de bronce | |
| B = Alojamiento de bomba EN-GJL-250 e impulsor CuSn10 en bronce, anillo de desgaste en bronce | |
| S = Alojamiento de bomba EN-GJL-250 e impulsor 1.4408, anillo de desgaste en bronce | |
| N = Alojamiento de bomba e impulsor 1.4408, anillo de desgaste en Graflon | |
| R = Alojamiento de bomba e impulsor 1.4517, anillo de desgaste en Graflon | |
| P = Alojamiento de bomba 1.4408, impulsor 1.4517, anillo de desgaste en Graflon | |
| K = Alojamiento de bomba e impulsor 1.4408, anillo de desgaste 1.4517 | |
| L = Alojamiento de bomba 1.4517, impulsor y anillo de desgaste | |
| M = Alojamiento de bomba 1.4408, propulsor 1.4517 y anillo de desgaste | |
| X = Versión especial | |
| Código para el cierre mecánico y componentes de goma de la bomba | |

Ejes

Las bombas NB y NK están disponibles con un cierre BAQE como estándar. Otras variantes de cierre disponibles bajo pedido.

Códigos para cierres

Las posiciones (1) - (4) cubren cuatro tipos de información sobre el cierre:

| Ejemplo | (1) | (2) | (3) | (4) |
|----------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Designación de modelo de Grundfos | | | | |
| Material, pista giratoria del cierre | | | | |
| Material, pista fija | | | | |
| Material, eje secundario y otros componentes de goma y de materiales compuestos, excepto el anillo de desgaste | | | | |

La siguiente tabla explica las posiciones (1), (2), (3) y (4).

| Pos. | Tipo | Descripción breve del cierre |
|-----------------|------|-----------------------------------------------------------------|
| (1) | A | Cierre junta tórica con pista fija |
| | B | Cierre de goma |
| | G | Cierre de fuelle, tipo B, con superficies reducidas del cierre |
| | D | Cierre de junta tórica, equilibrado |
| Pos. | Tipo | Material |
| (2) y (3) | | Carbonos sintéticos: |
| | A | Carbono, metalizado (antimonio (no aprobado para agua potable)) |
| | B | Carbono, impregnado de resina |
| | | Carburos: |
| | Q | Carburo de silicio |
| Pos. | Tipo | Material |
| (4) | E | EPDM |
| | V | FKM |
| | F | FXM |

Prensaestopas (NK)

Hay varios tipos de prensaestopas disponibles como alternativa a los cierres. Los prensaestopas no son tan sensibles como los cierres y, por lo tanto, son adecuados para diferentes aplicaciones.

Hay tres tipos de prensaestopas disponibles para bombas NK: SNE(x), SNO(x) y SNF(x).

Códigos para prensaestopas

Las posiciones 1 - 4 cubren información sobre el prensaestopas:

| Pos. | Código | Descripción breve del prensaestopas |
|------|--------|----------------------------------------------------------------------------------------------------------|
| (1) | S | Prensaestopas con empaquetadura |
| Pos. | Código | Método de refrigeración |
| (2) | N | Prensaestopas no refrigerado |
| Pos. | Código | Líquido protector |
| (3) | E | Con líquido protector interno |
| | F | Con líquido protector externo |
| | O | Sin líquido protector |
| Pos. | Código | Materiales |
| (4) | A | Anillos de empaquetadura de fibra impregnada con PTFE y juntas tóricas en EPDM en la carcasa de la bomba |
| | B | Anillos de empaquetadura en compuesto de grafito-PTFE y juntas tóricas en EPDM en la carcasa de la bomba |
| | C | Anillos de empaquetadura de fibra impregnada con PTFE y juntas tóricas en FKM en la carcasa de la bomba |
| | D | Anillos de empaquetadura en compuesto de grafito-PTFE y juntas tóricas en FKM en la carcasa de la bomba |

Plano seccionado NB

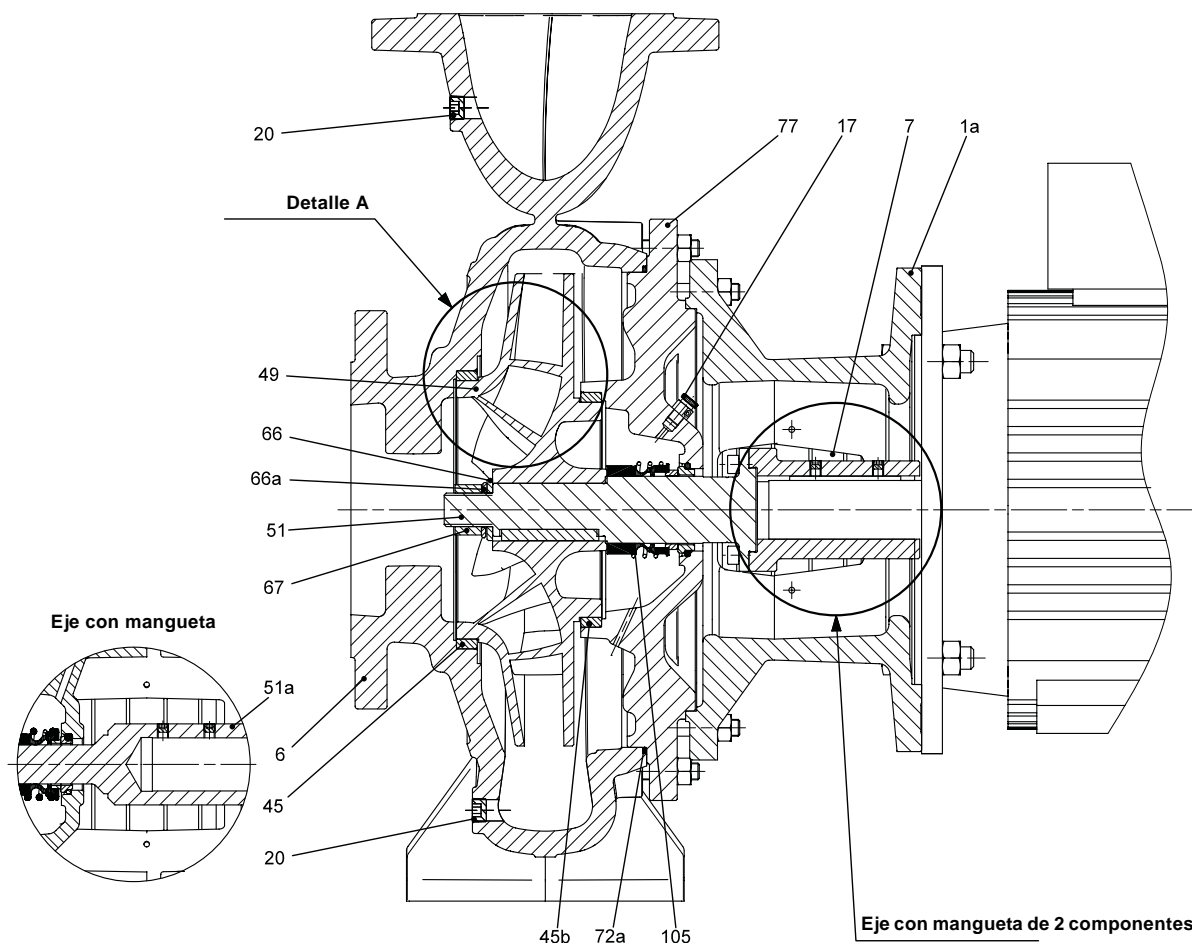
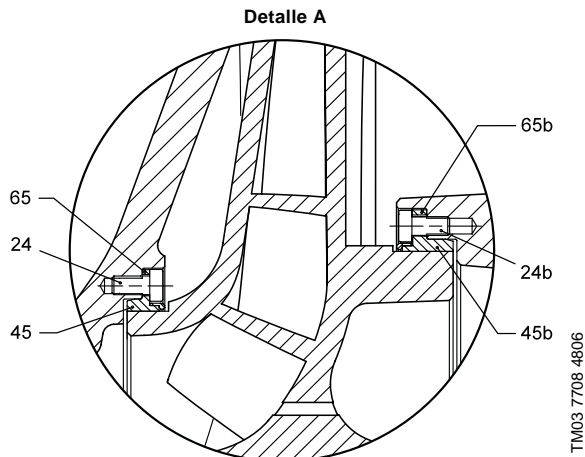


Fig. 3 Plano seccionado NB

Bomba en fundición

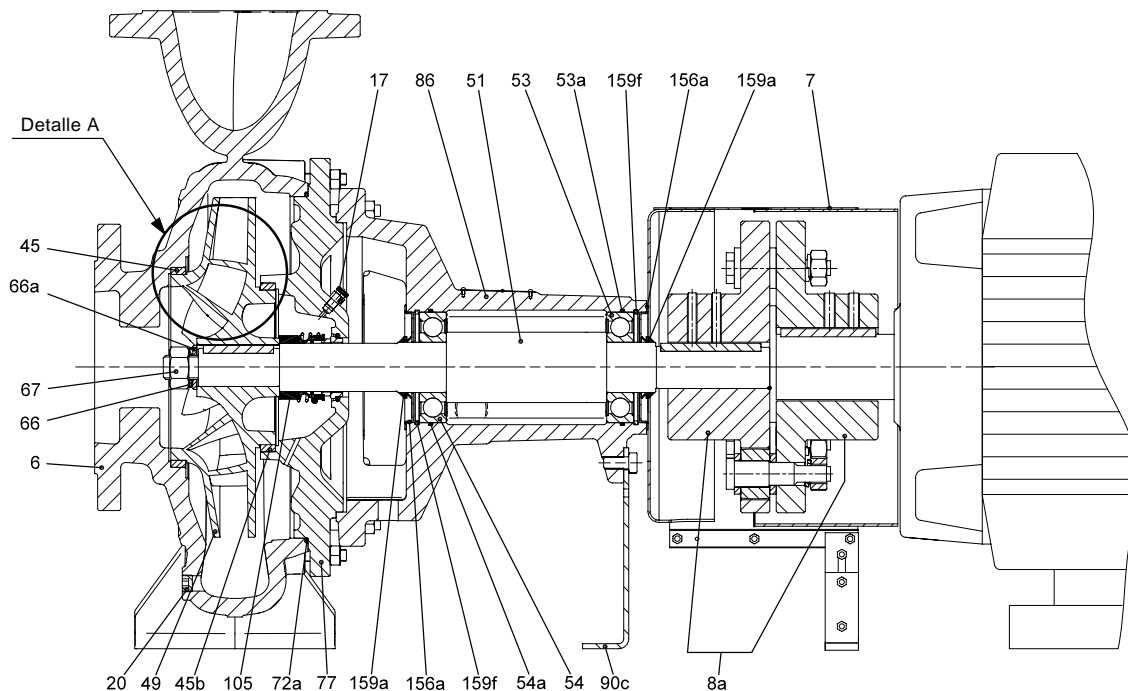
| Pos. | Componente | Versión A Impulsor en fundición | Versión B Impulsor en bronce | Versión S Impulsor en acero inoxidable |
|------|-----------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|
| 1a | Soporte motor | EN-GJL-250 | EN-GJL-250 | EN-GJL-250 |
| 6 | Alojamiento de la bomba | EN-GJL-250 | EN-GJL-250 | EN-GJL-250 |
| 7 | Protección del acoplamiento | 1.4016/AISI 430 | 1.4016/AISI 430 | 1.4016/AISI 430 |
| 17 | Conector para el purgador | 2.0401/CuZn44Pb2 | 2.0401/CuZn44Pb2 | 2.0401/CuZn44Pb2 |
| 20 | Conector | ISO898 8.8 en acero al carbono | ISO898 8.8 en acero al carbono | ISO898 8.8 en acero al carbono |
| 45 | Anillo de desgaste | CuSn10 | CuSn10 | CuSn10 |
| 45b | Anillo de desgaste | CuSn10 | CuSn10 | CuSn10 |
| 49 | Impulsor | EN-GJL-200 | CuSn10 | 1.4408/CF8M |
| 51 | Eje con mangueta de 2 componentes | 1.4021+1.0301/AISI 420+ Acero al carbono 10 | 1.4021+1.0301/AISI 420+ Acero al carbono 10 | 1.4301+1.0301/AISI 304+ Acero al carbono C10 |
| 51 a | Eje con mangueta | 1.4301/AISI 420 | 1.4301/AISI 420 | 1.4401/AISI 316 |
| 66 | Arandela | 1.4301/AISI 304 | 1.4301/AISI 304 | 1.4401/AISI 316 |
| 66a | Arandela flexible | 1.4301/AISI 304 | 1.4301/AISI 304 | 1.4401/AISI 316 |
| 67 | Tuerca impulsor | 1.4301/AISI 304 | 1.4301/AISI 304 | 1.4401/AISI 316 |
| 72a | Junta tórica | EPDM o FKM | EPDM o FKM | EPDM o FKM |
| 77 | Tapa | EN-GJL-250 | EN-GJL-250 | EN-GJL-250 |
| 105 | Cierre | Burgmann 1.4401/AISI 316 | Burgmann 1.4401/AISI 316 | Burgmann 1.4401/AISI 316 |

Bomba en acero inoxidable



| Pos. | Componente | Versión N | Versión R |
|------|-----------------------------------|-------------------------------------------------|----------------------------------------------------|
| 1a | Soporte motor | EN-GJL-250 | EN-GJL-250 |
| 6 | Alojamiento de la bomba | 1.4408/CF8M | 1.4517/CD4MCuN |
| 7 | Protección del acoplamiento | 1.4016/AISI 430 | 1.4016/AISI 430 |
| 17 | Conector para el purgador | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 20 | Conector | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 24 | Tornillo de cabeza hexagonal | ISO898 1.4401/AISI 316 | ISO898 1.4539/AISI 904L |
| 24b | Tornillo de cabeza hexagonal | ISO898 1.4401/AISI 316 | ISO898 1.4539/AISI 904L |
| 45 | Anillo de desgaste | Graflon | Graflon |
| 45b | Anillo de desgaste | Graflon | Graflon |
| 49 | Impulsor | 1.4408/CF8M | 1.4517/CD4MCuN |
| 51 | Eje con mangueta de 2 componentes | 1.4401+1.0301/AISI 316+ Acero al carbono C10 | 1.4462+1.0301/ASTM J92205+ Acero al carbono C10 |
| 51 a | Eje con mangueta | 1.4401/AISI 316 | 1.4462/ASTM J92205 |
| 65 | Retención del anillo de desgaste | 1.4517/CD4MCuN | 1.4517/CD4MCuN |
| 65b | Retención del anillo de desgaste | 1.4517/CD4MCuN | 1.4517/CD4MCuN |
| 66 | Arandela | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 66a | Arandela flexible | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 67 | Tuerca impulsor | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 72a | Junta tórica | EPDM o FKM | EPDM o FKM |
| 77 | Tapa | 1.4408/CF8M | 1.4517/CD4MCuN |
| 105 | Cierre | Burgmann 1.4401/AISI 316 | Burgmann 2.4610/Hastelloy C-4 |

Plano seccionado NK



TM03 4896 3306

Fig. 4 Plano seccionado NK, modelo B

Bomba en fundición

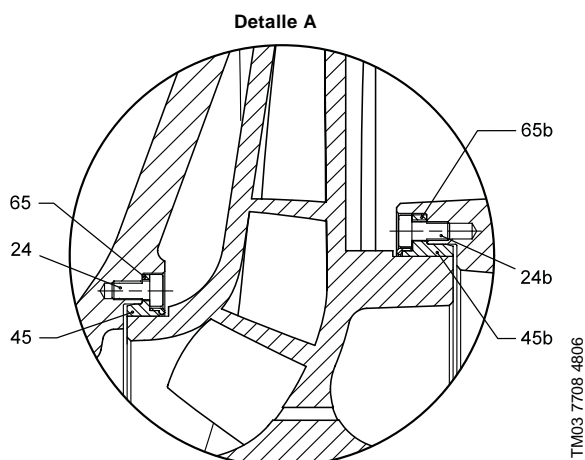
| Pos. | Componente | Versión A Impulsor en fundición | Versión B Impulsor en bronce | Versión S Impulsor en acero inoxidable |
|------|------------------------------|---------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| 6 | Alojamiento de la bomba | EN-GJL-250 | EN-GJL-250 | EN-GJL-250 |
| 7 | Protección del acoplamiento | 1.4301/AISI 304 | 1.4301/AISI 304 | 1.4301/AISI 304 |
| 8a | Montaje del acoplamiento | * | * | * |
| 17 | Conector para el purgador | 2.0401/CuZn44Pb2 | 2.0401/CuZn44Pb2 | 2.0401/CuZn44Pb2 |
| 20 | Conector | ISO898 8.8 en acero al carbono | ISO898 8.8 en acero al carbono | ISO898 8.8 en acero al carbono |
| 45 | Anillo de desgaste | CuSn10 | CuSn10 | CuSn10 |
| 45b | Anillo de desgaste | CuSn10 | CuSn10 | CuSn10 |
| 49 | Impulsor | EN-GJL-200 | CuSn10 | 1.4408/CF8M |
| 51 | Eje | 1.4021+ 1.0301/AISI 420 + Acero al carbono C10 | 1.4021+1.0301/AISI 420 + Acero al carbono C10 | 1.4301+1.0301/AISI 304 + Acero al carbono C10 |
| 53 | Cojinetes ranurados de bolas | 2ZR.C3 | 2ZR.C3 | 2ZR.C3 |
| 53a | Junta tórica | EPDM | EPDM | EPDM |
| 54 | Cojinetes ranurados de bolas | 2ZR.C3 | 2ZR.C3 | 2ZR.C3 |
| 54a | Junta tórica | EPDM | EPDM | EPDM |
| 66 | Arandela | 1.4301/AISI 304 | 1.4301/AISI 304 | 1.4401/AISI 316 |
| 66a | Arandela flexible | 1.4301/AISI 304 | 1.4301/AISI 304 | 1.4401/AISI 316 |
| 67 | Tuerca impulsor | 1.4301/AISI 304 | 1.4301/AISI 304 | 1.4401/AISI 316 |
| 72a | Junta tórica | EPDM o FKM | EPDM o FKM | EPDM o FKM |
| 77 | Tapa | EN-GJL-250 | EN-GJL-250 | EN-GJL-250 |
| 86 | Soporte rodamiento | EN-GJL-250 | EN-GJL-250 | EN-GJL-250 |
| 90c | Pie | EN-GJL-250 / 1.0338/acero al carbono DC04 | EN-GJL-250 / 1.0338/acero al carbono DC04 | EN-GJL-250 / 1.0338/acero al carbono DC04 |
| 105 | Cierre | Burgmann 1.4401/AISI 316 | Burgmann 1.4401/AISI 316 | Burgmann 1.4401/AISI 316 |
| 156a | Tapa (cojinete) | 1.0338/acero al carbono DC04 | 1.0338/acero al carbono DC04 | 1.0338/acero al carbono DC04 |
| 159a | Dispensor | EPDM | EPDM | EPDM |
| 159f | Anillo de cierre (circlip) | DIN472(C75 DIN17 222) | DIN472(C75 DIN17 222) | DIN472(C75 DIN17 222) |

* Material de los componentes macho y hembra

| | | | | | |
|-------------------------------------|---------|-------------|----------------------------------------|---------|-------------|
| Acoplamiento estándar EN-GJL-250 | 2 polos | hasta 22 kW | Acoplamiento estándar EN-GJS-450-10 | 2 polos | desde 30 kW |
| | 4 polos | hasta 30 kW | | 4 polos | desde 37 kW |
| | 6 polos | hasta 37 kW | | 6 polos | desde 45 kW |

Acoplamiento espaciador (no mostrado) para todas las salidas: EN-GJL-250

Bomba en acero inoxidable



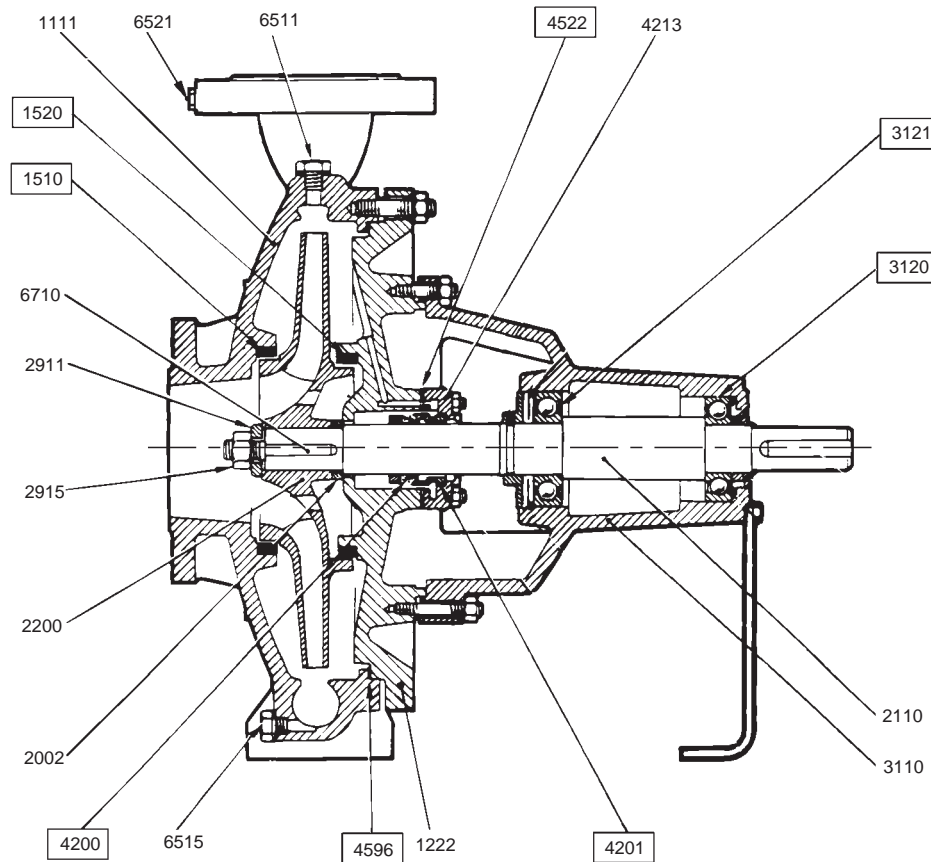
| Pos. | Componente | Versión N | Versión R |
|------|----------------------------------|-----------------------------------------------|--------------------------------------------------|
| 6 | Alojamiento de la bomba | 1.4408/CF8M | 1.4517/CD4MCuN |
| 7 | Protección del acoplamiento | 1.4301/AISI 304 | 1.4301/AISI 304 |
| 8a | Montaje del acoplamiento | * | * |
| 17 | Conector para el purgador | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 20 | Conector | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 24 | Tornillo de cabeza hexagonal | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 24b | Tornillo de cabeza hexagonal | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 45 | Anillo de desgaste | Graflon | Graflon |
| 45b | Anillo de desgaste | Graflon | Graflon |
| 49 | Impulsor | 1.4408/CF8M | 1.4517/CD4MCuN |
| 51 | Eje | 1.4401+1.0301/AISI 316 + acero al carbono C10 | 1.4462+1.0301/ASTM J92205 + acero al carbono C10 |
| 53 | Cojinetes ranurados de bolas | 2ZR.C3 | 2ZR.C3 |
| 53a | Junta tórica | EPDM | EPDM |
| 54 | Cojinetes ranurados de bolas | 2ZR.C3 | 2ZR.C3 |
| 54a | Junta tórica | EPDM | EPDM |
| 65 | Retención del anillo de desgaste | 1.4517/CD4MCuN | 1.4517/CD4MCuN |
| 65b | Retención del anillo de desgaste | 1.4517/CD4MCuN | 1.4517/CD4MCuN |
| 66 | Arandela | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 66a | Arandela flexible | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 67 | Tuerca impulsor | 1.4401/AISI 316 | 1.4539/AISI 904L |
| 72a | Junta tórica | EPDM o FKM | EPDM o FKM |
| 77 | Tapa | 1.4408/CF8M | 1.4517/CD4MCuN |
| 86 | SopORTE rodamiento | EN-GJL-250 | EN-GJL-250 |
| 90c | Pie | EN-GJL-250 / 1.0338/acero al carbono DC04 | EN-GJL-250 / 1.0338/acero al carbono DC04 |
| 105 | Cierre | Burgmann 1.4401/AISI 316 | Burgmann 2.4610/Hastelloy C-4 |
| 156a | Tapa (cojinete) | 1.0338/acero al carbono DC04 | 1.0338/acero al carbono DC04 |
| 159a | Dispensor | EPDM | EPDM |
| 159f | Anillo de cierre (circlip) | DIN472(C75 DIN17 222) | DIN472(C75 DIN17 222) |

* Material de los componentes macho y hembra

| | | | | | |
|-------------------------------------|---------|-------------|----------------------------------------|---------|-------------|
| Acoplamiento estándar EN-GJL-250 | 2 polos | hasta 22 kW | Acoplamiento estándar EN-GJS-450-10 | 2 polos | desde 30 kW |
| | 4 polos | hasta 30 kW | | 4 polos | desde 37 kW |
| | 6 polos | hasta 37 kW | | 6 polos | desde 45 kW |

Acoplamiento espaciador (no mostrado) para todas las salidas: EN-GJL-250

Plano seccionado, NK "sobredimensionada", modelo A



TM03 1009 0905

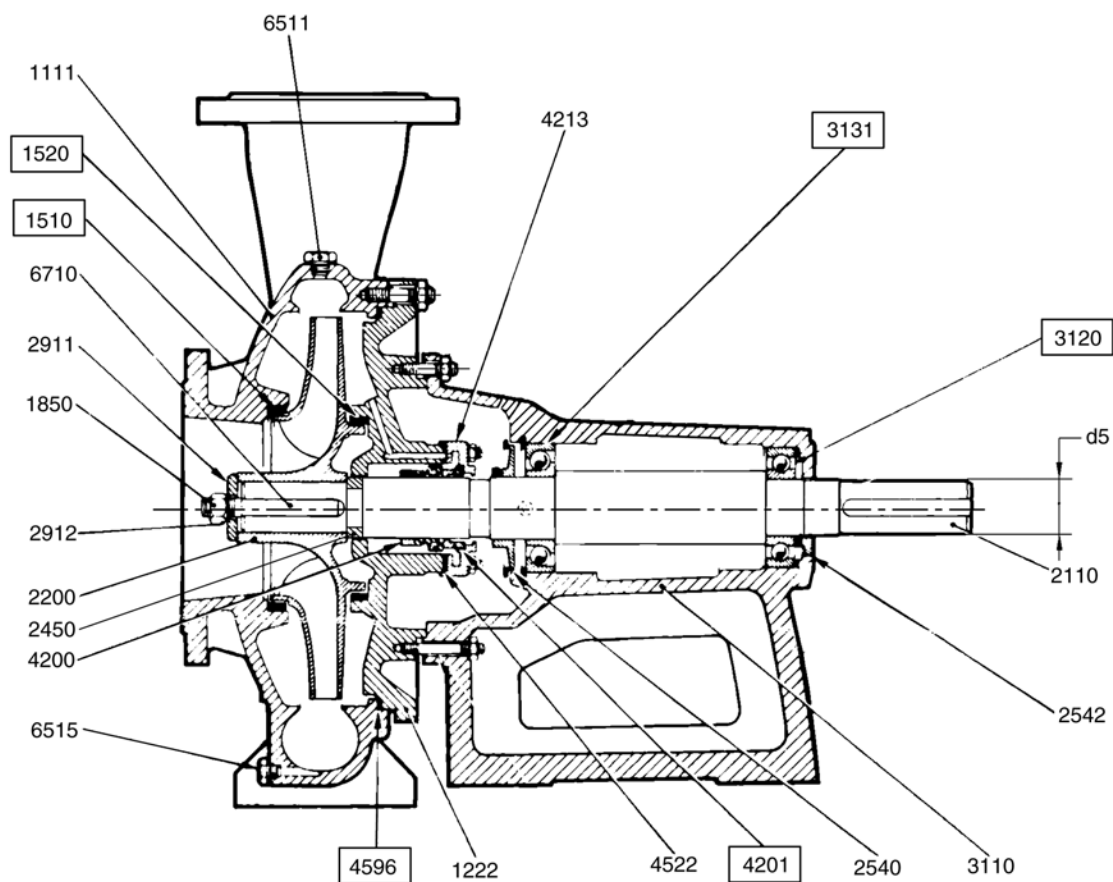
Fig. 5 Plano seccionado, NK 250-310 "sobredimensionada"

Leyenda

:Repuesto recomendado.

| Pos. | Componente | Pos. | Componente | Pos. | Componente |
|------|-------------------------|------|----------------------------|------|--------------------|
| 1111 | Alojamiento de la bomba | 2911 | Arandela impulsor | 4213 | Tapa cierre |
| 1222 | Alojamiento cierre | 2915 | Tuerca bloqueo | 4522 | Junta tapa |
| 1510 | Anillo de desgaste | 3110 | Alojamiento cojinete | 4596 | Junta bomba |
| 1520 | Anillo de desgaste | 3120 | Cojinete | 6511 | Tapón de cebado |
| 2002 | Anillo espaciador | 3121 | Cojinete | 6515 | Tapón de purga |
| 2110 | Eje | 4200 | Anillo de cierre giratorio | 6521 | Tapón toma presión |
| 2200 | Impulsor | 4201 | Asiento estacionario | 6710 | Chaveta impulsor |

Plano seccionado, NK "sobredimensionada", modelo A



TM00 9800 0203

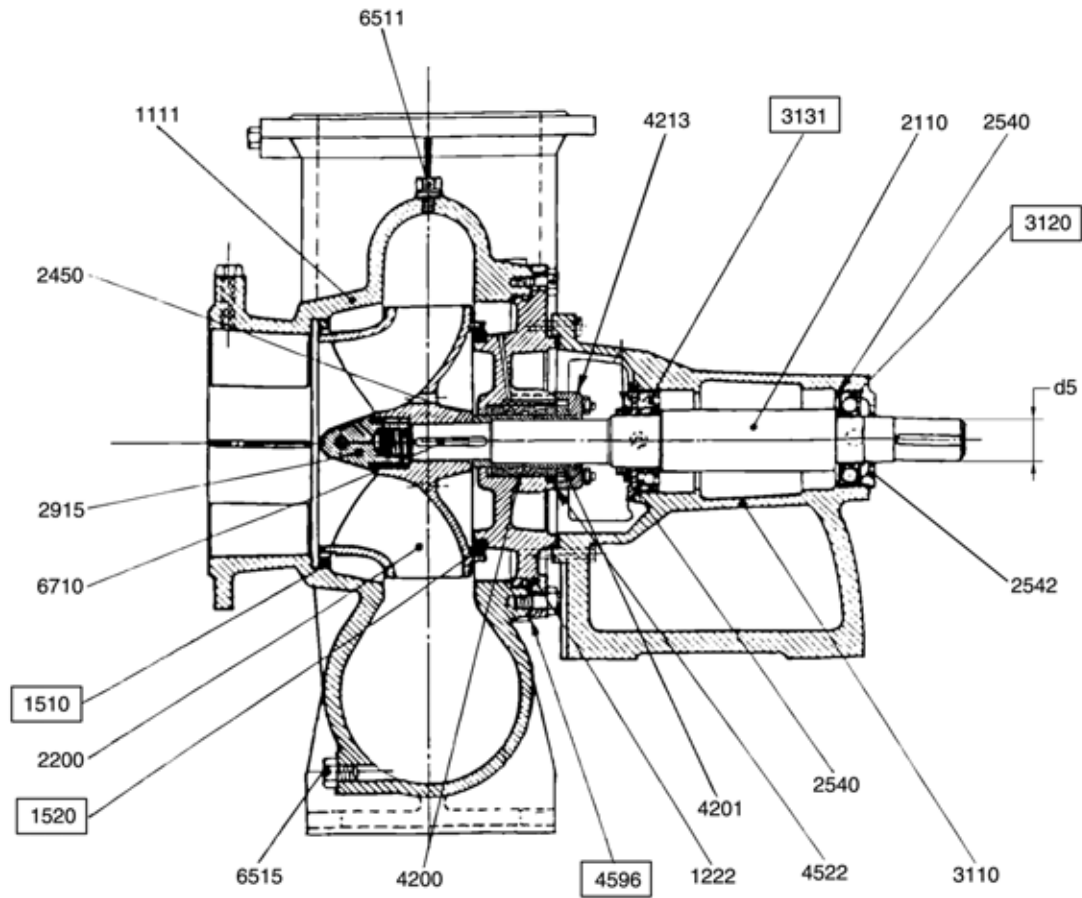
Fig. 6 Plano seccionado, NK 200-500, 250-400, 250-500 "sobredimensionadas"

Leyenda

:Repuesto recomendado.

| Pos. | Componente | Pos. | Componente | Pos. | Componente |
|------|-------------------------|------|----------------------------|------|----------------------|
| 1111 | Alojamiento de la bomba | 2540 | Dispensor | 4201 | Asiento estacionario |
| 1222 | Alojamiento cierre | 2542 | Dispensor | 4213 | Tapa cierre |
| 1510 | Anillo de desgaste | 2911 | Arandela impulsor | 4522 | Junta tapa |
| 1520 | Anillo de desgaste | 2912 | Tuerca impulsor | 4596 | Junta bomba |
| 1850 | Contratuerca impulsor | 3110 | Alojamiento cojinete | 6511 | Tapón de cebado |
| 2110 | Eje | 3120 | Cojinete | 6515 | Tapón de purga |
| 2200 | Impulsor | 3131 | Cojinete | 6710 | Chaveta impulsor |
| 2450 | Camisa eje | 4200 | Anillo de cierre giratorio | | |

Plano seccionado, NK "sobredimensionada", modelo A



TM01 3279 0203

Fig. 7 Plano seccionado NK 200-400, 250-330, 300-360 "sobredimensionadas"

Leyenda

:Repuesto recomendado.

| Pos. | Componente | Pos. | Componente | Pos. | Componente |
|------|-------------------------|------|----------------------------|------|----------------------|
| 1111 | Alojamiento de la bomba | 2540 | Dispensor | 4201 | Asiento estacionario |
| 1222 | Alojamiento cierre | 2542 | Dispensor | 4213 | Tapa cierre |
| 1510 | Anillo de desgaste | 2915 | Tuerca bloqueo | 4522 | Junta tapa |
| 1520 | Anillo de desgaste | 3110 | Alojamiento cojinete | 4596 | Junta bomba |
| 2110 | Eje | 3120 | Cojinete | 6511 | Tapón de cebado |
| 2200 | Impulsor | 3131 | Cojinete | 6515 | Tapón de purga |
| 2450 | Camisa eje | 4200 | Anillo de cierre giratorio | 6710 | Chaveta impulsor |

Construcción mecánica

Montaje (NB)

Las bombas NB se suministran en tres diseños diferentes:

- Diseño A: Cuerpo de bomba con patas
- Diseño B: Motor con patas
- Diseño C: Cuerpo de bomba y motor con patas.

Ver las siguientes figuras.

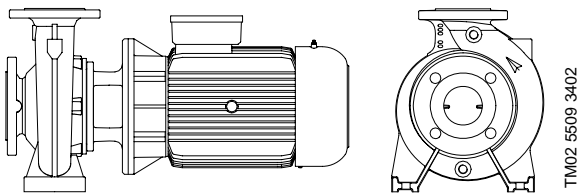


Fig. 8 Bomba NB, diseño A

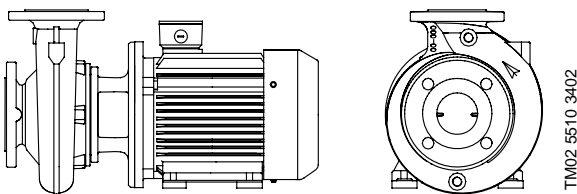


Fig. 9 Bomba NB, diseño B

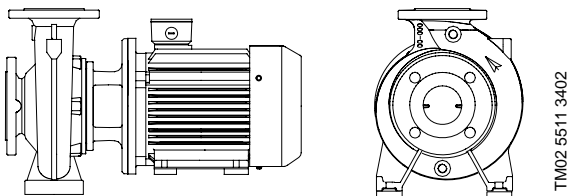


Fig. 10 Bomba NB, diseño C

Alojamiento de la bomba

El alojamiento de la bomba tiene un puerto de succión axial y un puerto de descarga radial. Las dimensiones de la brida cumplen con la norma EN 1092-2.

Las carcasas de la bomba tienen tanto un orificio de cebado como uno de purga, cerrados por tapones.

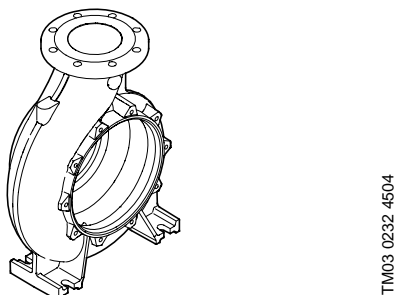


Fig. 11 Alojamiento de bomba NB y NK

Conjunto de cojinetes con eje (NK)

El conjunto de cojinetes incluye dos robustos cojinetes antifricción, lubricados de por vida. No obstante, las bombas NK modelo A con un diámetro del eje de 55 mm, tienen cojinetes abiertos con engrasadores.

El conjunto de cojinetes es de fundición EN-GJL-250.

El eje está hecho de acero inoxidable. El diámetro de eje d_5 es $\varnothing 24, 32, 42, 55$ o 60 .

Un anillo de bloqueo en el eje impide el paso del líquido al conjunto de cojinetes. El eje de las versiones con prensaestopas está protegido por una camisa de acero inoxidable en el cierre.

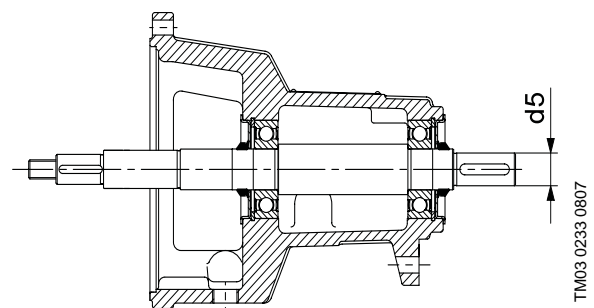


Fig. 12 Conjunto de cojinetes con eje

Todas las bombas NK están incluidas en cinco tamaños de eje, cierre y cojinetes. Gracias a los amplios tamaños de cojinetes y de los ejes, las bombas NK pueden ser accionadas por una correa de transmisión o motor diesel, si se requiere.

Cierre NK modelo A

El cierre es un cierre mecánico no equilibrado con dimensiones según EN 12 756. Las caras del cierre están disponibles en varias combinaciones. El código de la versión estándar es BAQE. Ver página 18.

Para otros tipo de cierre, contactar con Grundfos.

Los siguientes dibujos representan cierres para NK, modelo A.

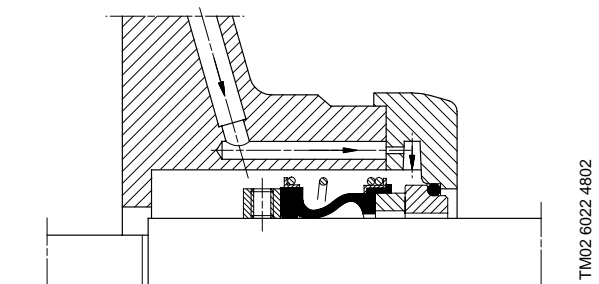


Fig. 13 Cierre de fuelle de goma, modelo BAQE, que impide depósitos del líquido bombeado.

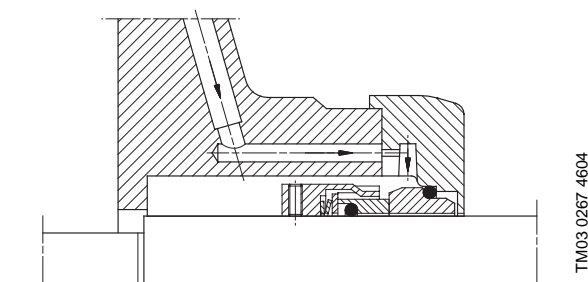


Fig. 14 Cierre de junta tórica no equilibrado, modelo AQAE, para altas presiones

TM03 0267 4604

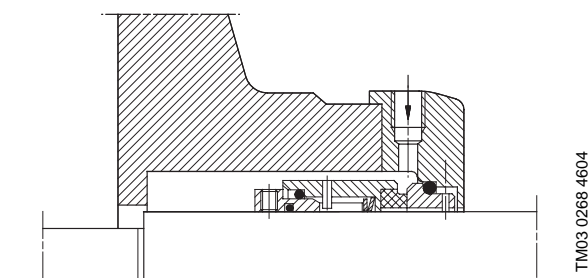


Fig. 15 Cierre de junta tórica equilibrado, modelo DAQF, para altas presiones y temperaturas (120°C a 140°C)

TM03 0268 4604

Prensaestopas (NK)

Los prensaestopas están disponibles como anillos de empaquetadura o como anillos de empaquetadura con cierre de grafito. Los anillos de empaquetadura del prensaestopas con cierres de grafito han probado sus cualidades en una amplia gama de aplicaciones, especialmente en condiciones extremas como alta presión o alta temperatura, o funcionamiento con aceites o líquidos agresivos.

El material trenzado es eficaz para asegurar una larga vida útil para los anillos de empaquetadura, mientras que protege el eje (camisa) si se utiliza en bombas. Una vez montados, estos anillos de empaquetadura son simétricos, tienen superficies paralelas que descartan la basculación.

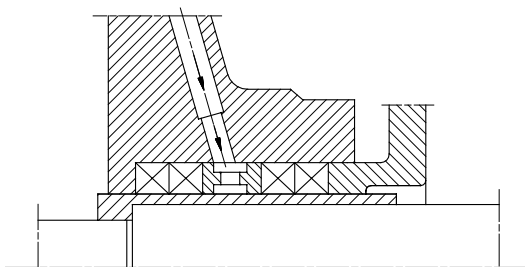


Fig. 16 Prensaestopas no refrigerado, tipo SNE(x), con líquido aislante interno para bombear líquidos limpios en la aspiración o con presiones de entrada de hasta 4 bar.

TM00 2584 0597

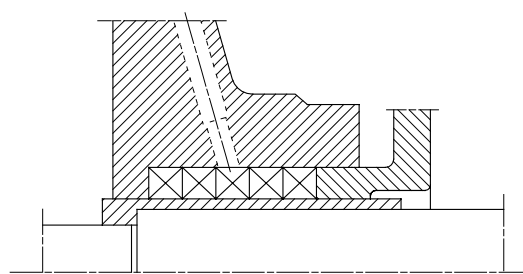


Fig. 17 Prensaestopas no refrigerado, tipo SNO(x), sin líquido aislante interno para bombear líquidos limpios en la aspiración o con presiones de entrada por encima de 4 bar.

TM00 2585 0597

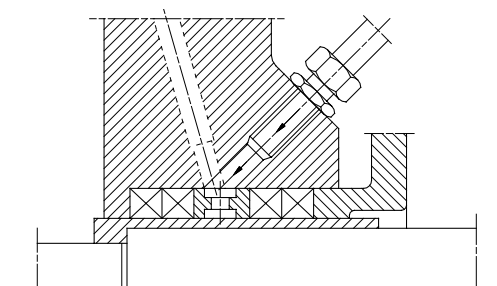


Fig. 18 Prensaestopas no refrigerado, tipo SNF(x), con líquido aislante externo para bombear líquidos contaminados y malolientes.

TM00 2586 0597

Soporte del motor y tapa (NB)

La tapa se suministra con un tornillo de purga manual para purgar el alojamiento de la bomba y la cámara del cierre. Se utiliza una junta tórica como cierre entre la tapa y el alojamiento de la bomba.

Los protectores del acoplamiento están montados en el soporte del motor.

Las designaciones de montaje de los motores para NB, NBE son los siguientes:

- IM B5: Hasta un tamaño de bastidor de 132 incl.
- IM B 35: A partir de un tamaño de bastidor de 160.

El tamaño de la brida del soporte del motor es según IEC 60034.

Eje (NB)

El eje en acero inoxidable es de $\varnothing 28$, $\varnothing 38$, $\varnothing 48$, $\varnothing 55$ o $\varnothing 60$.

El extremo del acoplamiento del eje es cilíndrico y tiene dos orificios para el pasador del eje del acoplamiento.

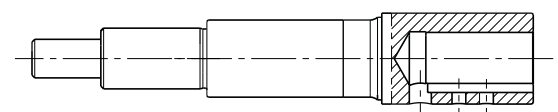


Fig. 19 Eje con manguito bomba NB

TM02 9500 2704

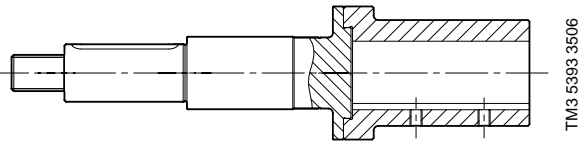


Fig. 20 Eje con manguito de dos componentes, bomba NB

Acoplamiento (NK)

Las bombas NK están disponibles con dos tipos de acoplamiento:

- Acoplamiento estándar
- Acoplamiento espaciador

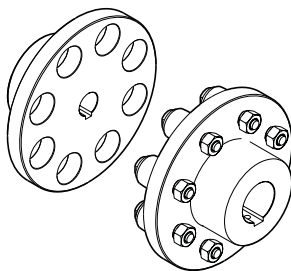


Fig. 21 Acoplamiento estándar

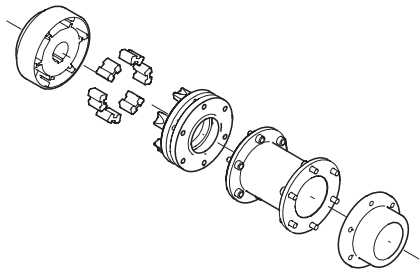


Fig. 22 Acoplamiento espaciador

Las bombas equipadas con un acoplamiento espaciador pueden repararse sin desmontar el motor de la bancada y sin retirar el alojamiento de la bomba de las tuberías. Esto ahorra el tener que realinear la bomba y el motor después de la reparación.

Impulsor

El impulsor es un impulsor cerrado con álabes de doble curvatura y superficies lisas. Esto garantiza un alto rendimiento.

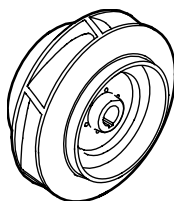


Fig. 23 Impulsor, bombas NB y NK

Todos los impulsores están equilibrados estática e hidráulicamente. El equilibrio hidráulico compensa el empuje axial.

El impulsor gira en el sentido de las agujas del reloj, visto desde el motor.

Todos los impulsores pueden adaptarse al punto de trabajo requerido por el cliente.

Bancada (NK)

La bomba y el motor están montados en una bancada común de acero estirado según EN 23661.

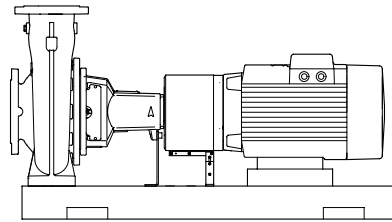


Fig. 24 Vista esquemática de una bomba-motor NK montada en una bancada

Una bancada preparada para la estabilización está disponible de forma opcional, ver "Cimentación (NK)" en la página 35

Tratamiento de la superficie

NK, modelo A

Todas las partes fijas de fundición están pintadas a pistola con imprimación. El grosor de la capa seca es 30-50 µm. Para terminar, las piezas están pintadas a pistola con pintura sin plomo negra éter-epóxica a base de agua (NCS 9000/RAL 9005). El grosor de la capa seca es 30-60 µm.

NB y NK, modelo B

Las partes de fundición de las bombas NB y NK tienen una capa con base epoxi hecha en un proceso de electrodeposición catódica (CED). CED es un proceso de pintura por inmersión de alta calidad en la que el campo eléctrico alrededor de los productos asegura la deposición de partículas como una capa fina y controlada en la superficie. Una parte importante del proceso es el tratamiento previo. El proceso completo consta de los siguientes elementos:

1. Limpieza basada en agentes alcalinos.
2. Fosfatación de zinc.
3. Electrodeposición catódica.
4. Secado hasta obtener un grosor de capa seca de 18-22 µm.

El código de color del producto terminado es NCS 9000/RAL 9005.

Para aplicaciones de baja temperatura en entorno de humedad elevada, Grundfos ofrece bombas NB y NK con un tratamiento extra de la superficie para evitar la corrosión. Estas bombas están disponibles bajo pedido.

Presión de prueba

La prueba de presión se ha realizado con agua a +20°C que contiene inhibidores de corrosión.

| Presión nominal | Presión de trabajo | | Presión de prueba | |
|-----------------|--------------------|-----|-------------------|-----|
| | bar | MPa | bar | MPa |
| PN 10 | 10 | 1,0 | 15 | 1,5 |
| PN 16 | 16 | 1,6 | 24 | 2,4 |

Motor

Es un motor totalmente cerrado, refrigerado por ventilador y con las dimensiones principales según las normas IEC y DIN.

Las siguientes tablas muestran los motores disponibles para NB y NK.

Tal como se indica en las tablas, puede elegirse entre una gama estándar con motores de rendimiento 2 y una gama alta con motores de rendimiento 1 para NB y NK, y motores con convertidor de frecuencia integrado para NBE y NKE.

Gama de motor estándar

| Gama estándar, incluyendo motores de rendimiento 2 | | | |
|----------------------------------------------------|-------------------|-------------------|--------------|
| Salida P ₂ [kW] | 2 polos | 4 polos | 6 polos |
| 0,25 | | | |
| 0,37 | | MG modelo C | |
| 0,55 | | | |
| 0,75 | MG modelo C | | |
| 1,1 | MG modelo C EFF2 | MG modelo C EFF2 | MMG modelo E |
| 1,5 | | | |
| 2,2 | | | |
| 3 | | | |
| 4 | MMG modelo E EFF2 | MMG modelo E EFF2 | |
| 5,5 | | | |
| 7,5 | | | |
| 11 | | | |
| 15 | MMG modelo E | MMG modelo E | |
| 18,5 | | | |
| 22 | | | |
| 30 | | | |
| 37 | | | |
| 45 | | | |
| 55 | | | |
| 75 | | | |
| 90 | | | |
| 110 | | | MMG modelo E |
| 132 | | | |
| 160 | | | |
| 200 | | | |
| 250 | | | |
| 315 | | | |
| 355 | | | |

Rendimiento 1 es la clase de rendimiento más alta según las clases de rendimiento CEMEP.

Nota: La lista CEMEP de requisitos mínimos para motores de alto rendimiento cubre la gama de 1,1 kW a 90,0 kW, motores de 2 polos y de 4 polos, ver marco en negrilla. Como consecuencia, sólo los motores dentro de esta gama pueden designarse Rendimiento 1 y Rendimiento 2.

Gama de motores alta

| Gama alta, incluyendo motores de rendimiento 1 | | | |
|------------------------------------------------|------------------|------------------|---------|
| Salida P ₂ [kW] | 2 polos | 4 polos | 6 polos |
| 0,25 | | | |
| 0,37 | | MG modelo C | |
| 0,55 | | | |
| 0,75 | MG modelo C | | |
| 1,1 | MG modelo D EFF1 | MG modelo D EFF1 | Siemens |
| 1,5 | | | |
| 2,2 | | | |
| 3 | | | |
| 4 | | | |
| 5,5 | | | |
| 7,5 | Siemens EFF1 | Siemens EFF1 | |
| 11 | | | |
| 15 | | | |
| 18,5 | | | |
| 22 | | | |
| 30 | | | |
| 37 | Siemens | Siemens | |
| 45 | | | |
| 55 | | | |
| 75 | | | |
| 90 | | | |
| 110 | | | |
| 132 | | | |
| 160 | | | |
| 200 | | | |
| 250 | | | |
| 315 | | | |
| 355 | | | |

Motores con convertidor de frecuencia integrado

| Motores con control de velocidad electrónico | | |
|----------------------------------------------|---------|---------|
| Salida P ₂ [kW] | 2 polos | 4 polos |
| 0,75 | | |
| 1,1 | | |
| 1,5 | MGE | MGE |
| 2,2 | | |
| 3 | | |
| 4 | | |
| 5,5 | | |
| 7,5 | | |
| 11 | MMGE | MMGE |
| 15 | | |
| 18,5 | | |
| 22 | | |

Ubicación de la bomba

La bomba está diseñada para su instalación en atmósferas no agresivas y no explosivas.

La humedad relativa del aire no debe superar 95%.

Nivel de ruido

| Motor [kW] | Nivel máximo de ruido [dB(A)] - ISO 3743 | | |
|------------|------------------------------------------|---------|---------|
| | Motores trifásicos | | |
| | 2 polos | 4 polos | 6 polos |
| 0.25 | 56 | 41 | - |
| 0.37 | 56 | 45 | - |
| 0.55 | 57 | 42 | 40 |
| 0.75 | 56 | 42 | 43 |
| 1.1 | 59 | 50 | 43 |
| 1.5 | 58 | 50 | 47 |
| 2.2 | 60 | 52 | 52 |
| 3 | 59 | 52 | 63 |
| 4 | 63 | 54 | 63 |
| 5.5 | 63 | 62 | 63 |
| 7.5 | 68 | 62 | 66 |
| 11 | 70 | 66 | 66 |
| 15 | 70 | 66 | 66 |
| 18.5 | 70 | 63 | 66 |
| 22 | 70 | 63 | 66 |
| 30 | 71 | 65 | 59 |
| 37 | 71 | 66 | 60 |
| 45 | 71 | 66 | 58 |
| 55 | 71 | 67 | 58 |
| 75 | 73 | 70 | 61 |
| 90 | 73 | 70 | 61 |
| 110 | 76 | 70 | 61 |
| 132 | 76 | 70 | 61 |
| 160 | 76 | 70 | - |
| 200 | 76 | 70 | - |
| 250 | 82 | 73 | - |
| 315 | 82 | 73 | - |
| 355 | 77 | - | - |

Temperatura ambiente y altitud

La temperatura ambiente y la altitud de la instalación son factores importantes para la vida del motor, ya que influyen en la vida de los cojinetes y sistema de aislamiento.

La temperatura ambiente no debe superar:

- +40°C para motores de rendimiento 2
- +60°C para motores de rendimiento 1.

Si la temperatura ambiente supera los +40°C (+60°C) o si el motor está instalado a más de 1000 m (3500 m) sobre el nivel del mar, el motor no debe trabajar a plena carga debido a la baja densidad y por consiguiente bajo efecto refrigerante del aire. En dichos casos puede ser necesario utilizar un motor con mayor rendimiento.

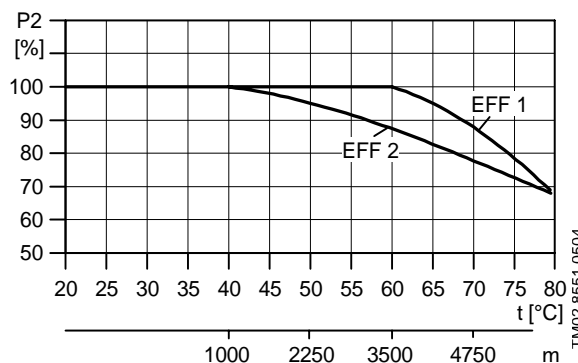


Fig. 25 El P2 del motor depende de la temperatura/altitud

Ejemplo:

La fig. 25 muestra que la carga de un motor de rendimiento 2 debe reducirse a 88% si se instala a 3500 m sobre el nivel del mar.

A una temperatura ambiente de 70°C, la carga de un motor de rendimiento 2 debe reducirse a 78% de la salida nominal.

En este tipo de situaciones, se puede utilizar un motor sobredimensionado.

Líquidos bombeados

Las bombas NB y NK son adecuadas para bombear líquidos limpios, ligeros y no explosivos sin partículas sólidas.

El efecto de la viscosidad en el funcionamiento de bomba centrífuga

Un líquido viscoso afecta a una bomba centrífuga de varios modos.

- El consumo de potencia se incrementará, p. ej. si se necesita un motor mayor.
- Se reducen la altura, el caudal y el rendimiento de la bomba.

El efecto de la alta densidad en el funcionamiento de bomba centrífuga

Un líquido de alta densidad sólo afecta al consumo de potencia de una bomba centrífuga.

- Se mantienen la altura, el caudal y el rendimiento de la bomba.
- El consumo de potencia se incrementará en un porcentaje correspondiente al incremento de densidad. Un líquido con una gravedad específica de 1,2 requerirá una entrada de potencia un 20% superior.
- Frecuentemente se necesitará un motor sobredimensionado.

WinCAPS y WebCAPS puede ayudarle a seleccionar la bomba adecuada para líquidos con una viscosidad/densidad diferente a la del agua.

Temperaturas del líquido

La gama de bombas NB y NK cubre la gama de temperatura de -25°C a $+140^{\circ}\text{C}$. La temperatura del líquido admisible depende del tipo de cierre mecánico y del tipo de bomba. Ver también la siguiente tabla.

Tener en cuenta que los límites máximos de temperatura del líquido establecidos por Grundfos pueden ser invalidados por normativas locales y otras leyes.

La temperatura máxima del líquido está estampada en la placa de características.

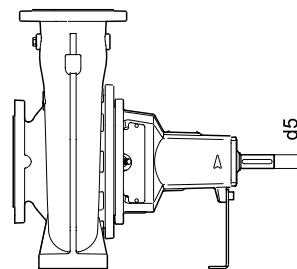


Fig. 26 Diámetro del eje libre d5

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Relación entre cierres mecánicos y temperatura

| Diámetro cierre [mm] | NB/NK | 28, 38 | 48 | 55 | - | 60 | |
|--------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------|----|----------------------|-----|-----|-----|
| d5 [mm] | NK | 24, 32 | 42 | 48 | 55 | 60 | |
| | Código | Gama de temperatura | | Presión máxima [bar] | | | |
| Cierre de fuelle en goma, carbono/carburo de silicio impregnado con metal, EPDM | BAQE | 0°C a +120°C | | 16 | 16 | 16 | 16 |
| Cierre de fuelle en goma, carbono/carburo de silicio impregnado con metal, FKM | BAQV | 0°C a +90°C | | 16 | 16 | 16 | 16 |
| Cierre de fuelle en goma, carburo de silicio/carburo de silicio, EPDM | BQQE | 0°C a +90°C | | 16 | 16 | 16 | 16 |
| Cierre de fuelle en goma, carburo de silicio/carburo de silicio, FKM | BQQV | 0°C a +90°C | | 16 | 16 | 16 | 16 |
| Cierre de fuelle, tipo B, con pistas del cierre reducidas, carburo de silicio/carburo de silicio, EPDM | GQQE | -25°C a $+90^{\circ}\text{C}$ | | 16 | 16* | 16* | 16* |
| Cierre de fuelle, tipo B, con pistas del cierre reducidas, carburo de silicio/carburo de silicio, FKM | GQQV | -20°C a $+90^{\circ}\text{C}$ | | 16 | 16* | 16* | 16* |
| Cierre de junta tórica, carburo de silicio/carburo de silicio, EPDM | AQQE | 0°C a +90°C | | 25 | 25 | 16 | 16 |
| Cierre de junta tórica, carburo de silicio/carburo de silicio, FKM | AQQV | 0°C a +90°C | | 25 | 25 | 16 | 16 |
| Cierre de junta tórica, carburo de silicio/carburo de silicio impregnado con metal, EPDM | AQAE | 0°C a +120°C | | 25 | 25 | 25 | 25 |
| Cierre de junta tórica, carburo de silicio/carburo de silicio impregnado con metal, FKM | AQAV | 0°C a +90°C | | 25 | 25 | 25 | 25 |
| Cierre de fuelle en goma, carburo de silicio/carburo de silicio impregnado de resina, EPDM | BQBE | 0°C a +140°C | | 16 | - | - | - |
| Cierre de junta tórica, equilibrado, carbono impregnado con metal/carburo de silicio, FXM | DAQF | 0°C a +140°C | | 25 | 25 | 25 | 25 |
| Cierre de fuelle en goma, carbono/carburo de silicio impregnado de resina, EPDM | BBQE | 0°C a +120°C | | 16 | 16 | 16 | 16 |

*) Máx. 60°C

EPDM

Los cierres mecánicos con goma EPDM (xxxE) son adecuados principalmente para agua.

Si el agua contiene aceite o si se bombean agentes químicos u otros líquidos diferentes al agua, podría tener que sustituirse las piezas de goma del cierre mecánico.

FKM

Los cierres mecánicos con goma FKM (xxxV) poseen una resistencia excelente al aceite y a un número determinado de agentes químicos.

Carbono/carburo de silicio

Los cierres mecánicos con caras de cierre de carbono/carburo de silicio (xAQx) tienen una amplia gama de aplicaciones y son especialmente aptas si existe riesgo de marcha en seco y/o si la temperatura es elevada. Estos cierres mecánicos no son apropiados para líqui-

dos que contengan partículas abrasivas, ya que desgastan las piezas de carbono. A temperaturas inferiores a 0°C , los inhibidores de corrosión que contienen partículas abrasivas se añaden normalmente al líquido bombeado, y los cierres xAQx no serán adecuados.

Carburo de silicio/carburo de silicio

Los cierres mecánicos con caras de cierre de carburo de silicio/carburo de silicio (xQQx) también tienen una amplia gama de aplicaciones. Estos cierres son muy resistentes a partículas abrasivas y son muy aptos a temperaturas de líquido hasta $+90^{\circ}\text{C}$. A temperaturas superiores, las propiedades de lubricación reducidas de los líquidos bombeados pueden causar problemas de ruido y limitar la vida útil de las caras de cierre.

Velocidad de bomba relativa al material y al tamaño del impulsor

La siguiente tabla muestra la relación entre la velocidad de la bomba y el tamaño y material del impulsor.

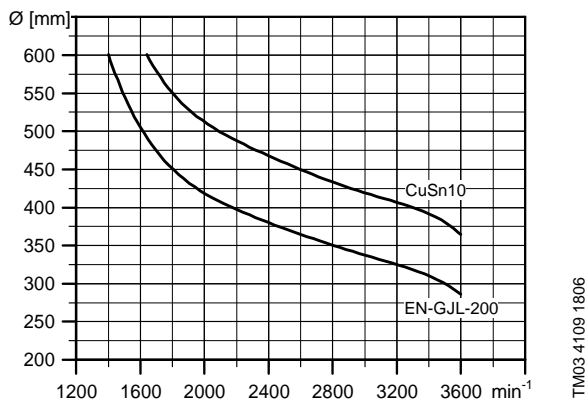


Fig. 27 Velocidad máxima permitida

Para impulsores de acero inoxidable (1.4408/1.4517), el límite es 3600 min^{-1} independientemente del tamaño del impulsor.

Presión de entrada

Presión máxima de entrada, modelo A

La presión máxima de entrada se toma de la siguiente tabla:

| | |
|--------------------|----------------------------------------------------|
| Presión de entrada | Máx. 9 bar. |
| | Máx. 7 bar para impulsores de 400 mm o superiores. |

Presión máxima de entrada, modelo B

La presión actual de entrada + la presión cuando la bomba está funcionando contra válvula cerrada debe ser siempre inferior a la presión máxima de trabajo permitida.

Presión mínima de entrada

La presión mínima de entrada debe corresponder a la curva NPSH + un margen de seguridad de 0,5 m como mínimo + corrección para presión de vapor. En cualquier caso, es recomendable calcular la presión de entrada si:

- la temperatura del líquido es alta
- el caudal es considerablemente superior al caudal nominal de la bomba
- la bomba está funcionando en un sistema abierto con altura de aspiración
- el líquido se succiona a través de tuberías largas
- las condiciones de aspiración son malas
- la presión de trabajo es baja.

Cálculo de una altura de aspiración máxima para agua en sistemas abiertos.

Para evitar cavitación, comprobar que haya una presión mínima en el lado de aspiración de la bomba. La altura máx. de aspiración "H" en m.c.a. puede calcularse utilizando la siguiente fórmula:

$$H = p_b \times 10.2 - \text{NPSH} - H_f - H_v - H_s \quad [\text{m}]$$

p_b = Presión barométrica en bar. (La presión barométrica puede ajustarse a 1 bar.) En sistemas cerrados, p_b indica la presión del sistema en bar.

NPSH = **Net Positive Suction Head** en m.c.a. (Debe leerse de la curva NPSH al caudal más alto que dará la bomba.)

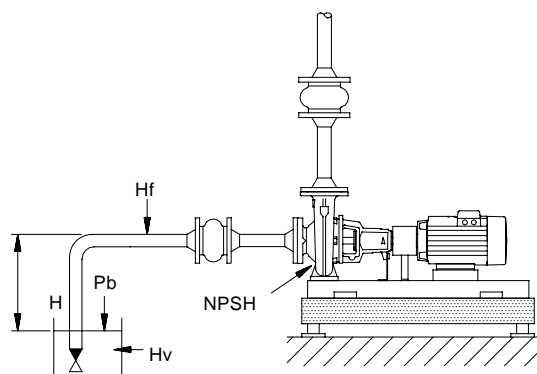
H_f = Pérdida por rozamiento en la tubería de aspiración en m.c.a. (Al caudal más alto que dará la bomba.)

H_v = Presión de vapor en m.c.a. (Debe leerse de la escala de presión de vapor. " H_v " depende de la temperatura del líquido " T_m ".)

H_s = Margen de seguridad = mín. 0,5 m.c.a.

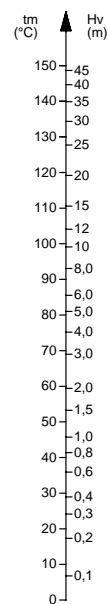
Si el valor de "H" calculado es positivo, la bomba puede funcionar con una altura de aspiración de "H" m.c.a. como máximo.

Si "H" calculado es negativo, se necesita una presión de entrada de "H" m.c.a. como mínimo.



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Fig. 28 Esquema de un sistema abierto con una bomba NK



TM00 3037 0798

Fig. 29 Relación entre la temperatura del líquido y la presión de vapor

Cimentación (NK)

Recomendamos la instalación de la bomba sobre una cimentación rígida y plana de hormigón lo suficientemente pesada para dotar de un apoyo permanente a toda la bomba. La cimentación debe poder absorber cualquier vibración, una tensión normal o golpes. Como regla general, el peso de la cimentación de hormigón debe ser 1,5 veces el peso de la bomba. Bancada preparada para la estabilización disponible de forma opcional. Ver fig. 33.

La cimentación debe ser 100 mm superior a la bancada por cada uno de los cuatro lados. Ver fig. 30.

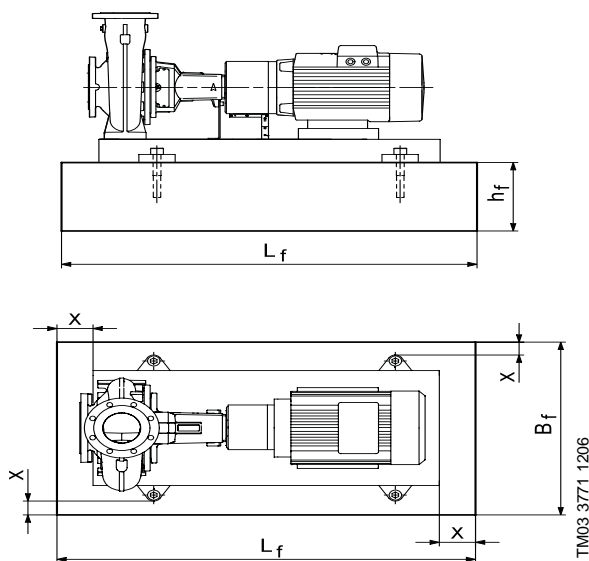


Fig. 30 Cimentación, X = mín. 100 mm

Entonces puede calcularse la altura mínima de la cimentación (h_f):

$$h_f = \frac{m_{\text{bomba}} \times 1,5}{L_f \times B_f \times \delta_{\text{hormigón}}}$$

La densidad (δ) del hormigón se estima normalmente en 2,200 kg/m³.

Colocar la bomba en la cimentación y sujetarla. La bancada debe estar apoyada en toda su área. Ver fig. 31.

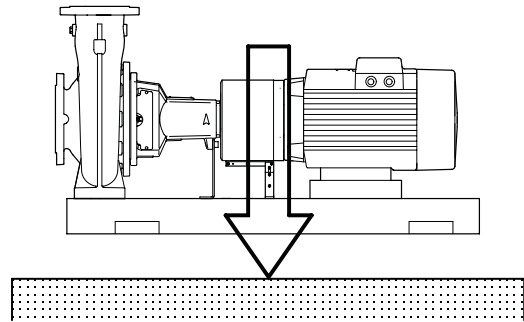


Fig. 31 Cimentación correcta

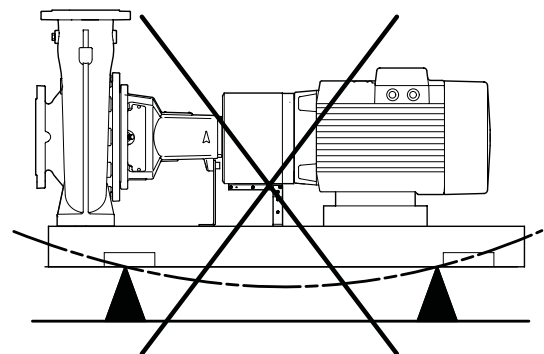


Fig. 32 Cimentación incorrecta

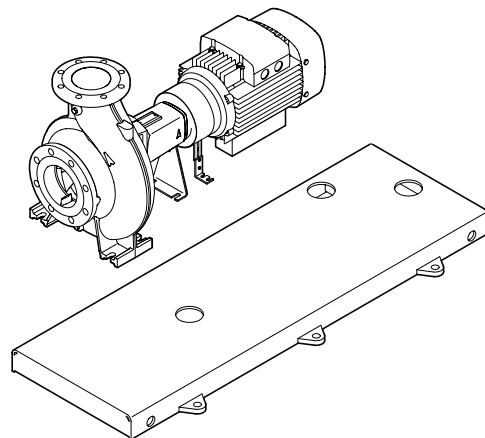


Fig. 33 Bancada preparada para la estabilización.

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TM03 4324 1206

TM03 3771 1206

TM03 4587 2206

Tuberías

Al instalar las tuberías, comprobar que el alojamiento de la bomba no está presionado por las tuberías.

Las tuberías de aspiración y descarga deben ser de un tamaño adecuado, teniendo en cuenta la presión de entrada de la bomba.

Instalar las tuberías de forma que se eviten bolsas de aire, especialmente en la aspiración de la bomba. Ver fig. 34.

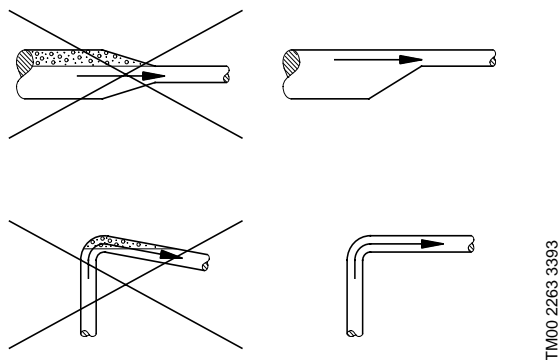


Fig. 34 Tuberías

Montar las válvulas de corte a ambos lados de la bomba para evitar que el sistema se vacíe si hay que limpiar o reparar la bomba.

Comprobar que las tuberías están adecuadamente sujetas lo más cerca posible de la bomba, tanto en la aspiración como en la descarga. Las contrabridas deben estar alineadas contra las bridas de la bomba, sin tensiones que puedan ocasionar daños a la misma.

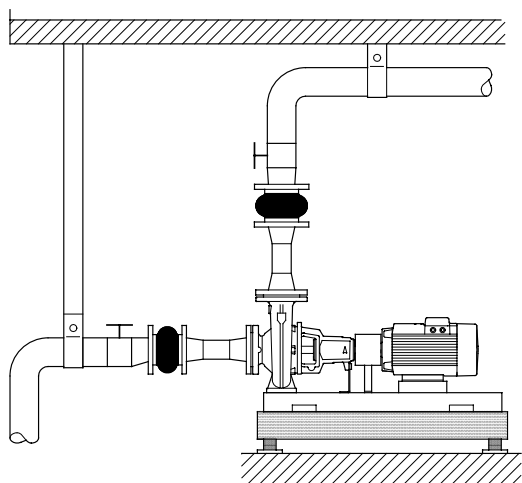


Fig. 35 Montaje de tuberías

Eliminación de ruidos y vibraciones

Para conseguir un funcionamiento óptimo y reducir los ruidos y vibraciones al mínimo, aconsejamos utilizar amortiguadores antivibratorios. Por lo general, considerar siempre estas bombas para motores superiores a 11 kW. No obstante, motores más pequeños pueden también ocasionar ruidos y vibraciones molestos.

Los ruidos y las vibraciones se generan por los giros del motor y de la bomba y por el caudal en tuberías y conexiones. El efecto en el entorno es subjetivo y depende de la instalación correcta y del estado del resto del sistema.

La mejor forma de eliminar ruidos y vibraciones es la utilización de amortiguadores antivibratorios y juntas de expansión.

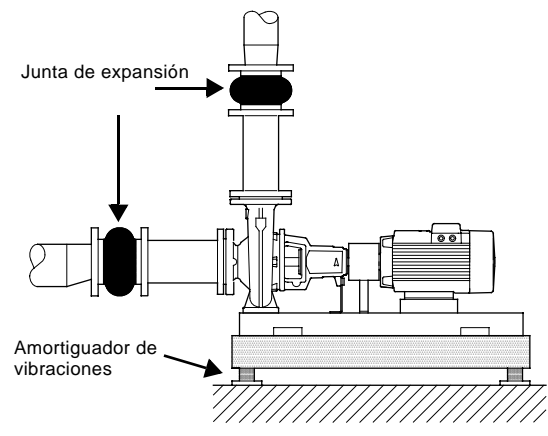


Fig. 36 Bomba NK, NKE con juntas de expansión y amortiguadores antivibratorios

Amortiguadores antivibratorios

Para prevenir la transmisión de vibraciones a los edificios, le recomendamos aislar la cimentación de la bomba de las partes del edificio mediante amortiguadores antivibratorios.

Para seleccionar el amortiguador antivibratorio adecuado se necesita la siguiente información:

- fuerzas transmitidas a través del amortiguador
- velocidad del motor, considerando control de velocidad, si lo hay
- amortiguación necesaria en % (valor sugerido, 70%).

El amortiguador correcto varía de una instalación a otra y un amortiguador erróneo puede incrementar el nivel de vibración. Por lo tanto, el proveedor debe dimensionar el amortiguador de vibraciones.

Juntas de expansión

Si la bomba se instala en una cimentación con amortiguadores antivibratorios, siempre instalar juntas de expansión en las bridas de la bomba. Esto es importante para prevenir que la bomba "cuelge" de las bridas.

Instalar juntas de expansión para

- absorber expansiones/contracciones en la tubería causadas por cambios de temperatura del líquido
- reducir las tensiones mecánicas debidas a aumentos de presión en las tuberías
- aislar los ruidos producidos por la estructura mecánica en las tuberías (sólo juntas de expansión de goma).

Nota: No instalar juntas de expansión para compensar irregularidades en las tuberías, por ejemplo desplazamiento central de las bridas.

Instalar las juntas de expansión a una distancia mínima de la bomba de 1 a 1 ½ veces el diámetro nominal de la brida, tanto en el lado de aspiración como en el de descarga. Esto evitará el desarrollo de turbulencias en las juntas de expansión favoreciendo unas mejores condiciones de aspiración y una pérdida mínima de presión en el lado de presión. A velocidades altas del agua (> 5 m/s) recomendamos instalar juntas de expansión más grandes correspondientes a la tubería.

Siempre recomendamos juntas de expansión con varillas limitadoras para bridas mayores de DN 100.

Alineación (NK)

En una unidad de bomba completa montada y suministrada de fábrica, las mitades de acoplamiento se han alineado de forma precisa. La alineación se realiza insertando calzos por debajo de las superficies de montaje de la bomba y del motor, según necesidad.

La alineación de la bomba motor puede alterarse durante el transporte. Comprobar siempre la alineación de la bomba después de la instalación.

Si es necesario corregirla debido al desplazamiento radial o angular, colocar/retirar calzos por debajo de las patas de la bomba o del motor para alinear.

Tener cuidado de alinear adecuadamente, ya que una alineación correcta aumentará considerablemente la vida útil del acoplamiento, los cojinetes y el cierre.

Nota: Comprobar la alineación definitiva cuando la bomba haya alcanzado su temperatura de trabajo en condiciones de funcionamiento normales.

La mayoría de las bombas NB y NK están disponibles con motores con control de velocidad integrado. Estas bombas se llaman NBE y NKE.

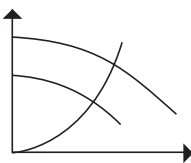
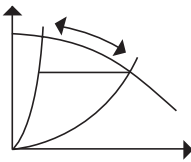
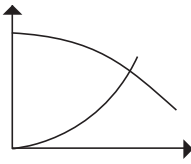
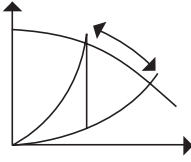
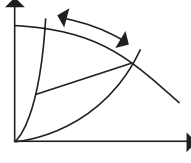
Como alternativa, todas las bombas NB y NK con motores trifásicos pueden conectarse a un convertidor de frecuencia externo.

Aplicaciones de bomba NBE y NKE

Las bombas NBE y NKE con control de velocidad integrado permiten una adaptación automática del funcionamiento a las condiciones actuales. Esto mantiene el consumo de energía al mínimo.

En función de la naturaleza de la aplicación, las bombas NBE y NKE ofrecen ahorros de energía, mayor confort o procesamientos mejorados.

Los siguientes gráficos muestran posibles modos de control de bombas NBE y NKE en diferentes aplicaciones.

| Modo de control | Aplicaciones |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Curva constante | |
|  | Sistemas de calefacción monotubo Sistemas con válvulas de tres vías Superficies de calentamiento y refrigeración Bombas refrigerantes (No se requiere sensor) |
| Presión constante | |
|  | Sistemas de aumento de presión (Se requiere sensor) |
| Control de temperatura | |
|  | Sistemas de calefacción monotubo Sistemas con válvulas de tres vías Torres de refrigeración Bombas refrigerantes Sistemas de recirculación de agua caliente sanitaria (Se requiere sensor) |
| Caudal constante | |
|  | Superficies de calentamiento y refrigeración Torres de refrigeración Filtros de caudal (Se requiere sensor) |
| Presión diferencial proporcional (medida) | |
|  | Sistema con válvulas de dos vías (El sistema de presión diferencial está localizado en el sistema) |

Curva constante

En el modo de control de curva constante, la bomba ajustará su velocidad para alcanzar el caudal necesario sin utilizar válvulas de estrangulación.

En este modo de control, la bomba puede ajustarse para funcionar dentro de 12-100% del rango de presión de funcionamiento máxima.

No se requiere sensor para este modo de control.

Presión constante

En modo de presión constante, la bomba ajusta su velocidad para mantener una presión constante en el lugar en el que esté montado el sensor.

Recomendamos el modo de control de presión constante en sistemas de mantenimiento de presión.

Se necesita un sensor de presión con un rango de funcionamiento adecuado.

Control de temperatura

En el modo de control de temperatura, la bomba ajusta su velocidad para mantener una temperatura constante o una temperatura diferencial.

Recomendamos este modo de control en sistemas con válvulas de tres vías y sistemas sin válvulas de control.

Para este modo de control se requiere un sensor de temperatura o un sensor diferencial.

Ejemplo

En un sistema de refrigeración industrial, una bomba NKE adapta continuamente su funcionamiento a las demandas variables reflejadas en las diferencias en la temperatura del líquido circulando en el sistema de refrigeración. Cuando la demanda de refrigeración es menor, la cantidad de líquido circulado en el sistema es también menor, y viceversa.

Caudal constante

En el modo de control de caudal constante, la bomba ajusta su velocidad para mantener un caudal constante independientemente de las variaciones de las características del sistema.

Recomendamos este modo de control en sistemas en los que se requiera un caudal constante.

En este modo de control se requiere bien un medidor de caudal o un sensor de presión diferencial.

Presión diferencial proporcional (medida)

En el modo de presión diferencial proporcional (medida), la bomba ajusta su velocidad para mantener la presión diferencial en un punto de referencia en el sistema.

Este modo de control se recomienda en sistema de circulación grandes en los que la bomba NBE o NKE funciona como una bomba secundaria. Para este modo de control se requiere un sensor de presión diferencial.

Ejemplo

En un sistema de calefacción bitubo o un sistema de aire acondicionado con caudal variable, el sensor de presión puede instalarse en un punto de referencia fuera de la bomba NKE.

A medida que aumenta el caudal, la bomba NKE adapta continuamente su velocidad para mantener la misma presión diferencial en el punto de referencia.

Ecuaciones de afinidad

Normalmente, las bombas NBE y NKE se utilizan en aplicaciones caracterizadas por un caudal **variable**. Por lo tanto, no es posible seleccionar una bomba que está funcionando constantemente al rendimiento óptimo.

Con el fin de conseguir un rendimiento óptimo del funcionamiento, se debe seleccionar la bomba en base a los siguientes criterios:

- El punto de trabajo máx. necesario debe estar lo más cerca posible de la curva QH de la bomba.
- El caudal requerido en el punto de trabajo debería estar lo más cerca posible del rendimiento óptimo (eta) en la mayoría de las horas de funcionamiento.

Las bombas NBE y NKE tienen entre la curva de rendimiento mín. y máx. una infinidad de curvas características que cada una representa una velocidad específica. Por lo tanto, no es posible seleccionar un punto de trabajo cercano a la curva máx.

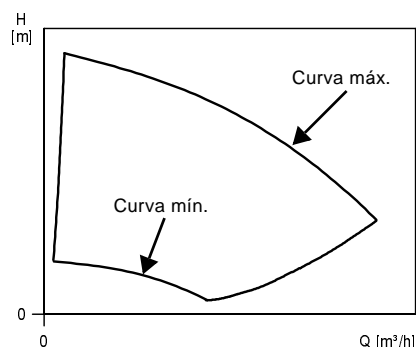


Fig. 37 Curvas de rendimiento mín. y máx.

En una situación en la que no es posible seleccionar un punto de trabajo cercano a la curva máx., utilizar la ecuación de afinidad que se indica a continuación. La altura (H), el caudal (Q) y la potencia de entrada (P) son las variables oportunas que se necesitan para poder calcular la velocidad del motor (n).

Nota: Las fórmulas aproximadas son válidas siempre que la característica del sistema siga sin cambios para n_n y n_x y que esté basado en la fórmula $H = k \times Q^2$, donde k es una constante.

La ecuación de potencia implica que el rendimiento de la bomba sigue sin cambio en las dos velocidades. En la práctica esto **no** es del todo correcto.

Finalmente debe recordarse que los rendimientos del variador de frecuencia y del motor **deben** tenerse en cuenta si se quiere un cálculo exacto del ahorro de potencia conseguido mediante una reducción de la velocidad de la bomba.

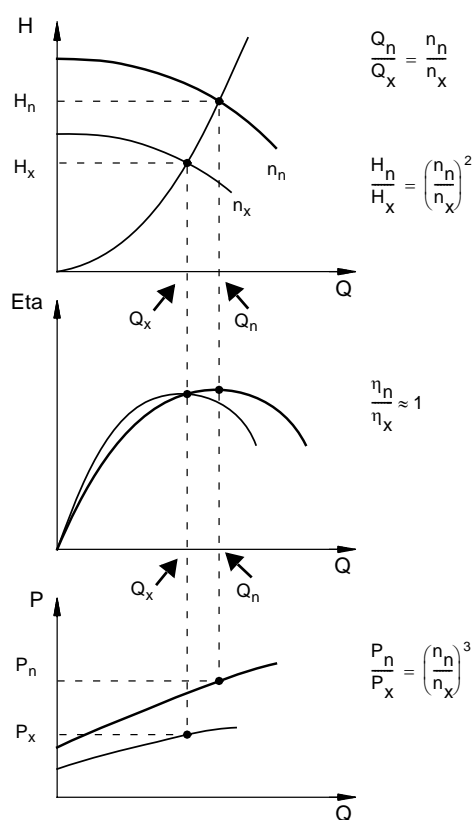


Fig. 38 Ecuaciones de afinidad

Leyenda

| | |
|----------|-------------------------------------------|
| H_n | Altura nominal en metros |
| H_x | Altura actual en metros |
| Q_n | Caudal nominal en m^3/h |
| Q_x | Caudal nominal actual en m^3/h |
| P_n | Potencia de entrada nominal en kW |
| P_x | Potencia de entrada actual en kW |
| n_n | Velocidad nominal del motor en min^{-1} |
| n_x | Velocidad actual del motor en min^{-1} |
| η_n | Rendimiento nominal en % |
| η_x | Rendimiento actual en % |

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TM01 4916 4803

WinCAPS y WebCAPS

WinCAPS y WebCAPS son programas de selección ofrecidos por Grundfos.

Los dos programas permiten calcular el punto de trabajo específico y consumo de energía de una bomba NBE o NKE.

Al introducir los datos de la bomba, WinCAPS y WebCAPS pueden calcular el punto de trabajo y el consumo de energía exactos. Para más información, véase página 287.

Comunicación con bombas NBE / NKE

La comunicación con bombas NBE, NKE es posible a través de un sistema de gestión centralizada de edificios, control remoto (Grundfos R100) o un panel de control.

Sistema de control centralizado de edificios

El operador puede comunicarse con la bomba NBE, NKE incluso aunque sin estar en las inmediaciones de la bomba. La comunicación puede realizarse a través del sistema de gestión centralizada de edificios, permitiendo al operador controlar y modificar modos de control y ajustes del valor de consigna.

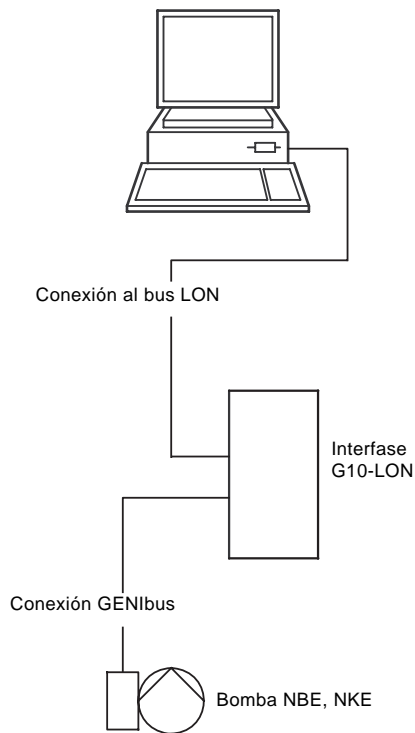


Fig. 39 Estructura de un sistema de control centralizado de edificios

TM02 6592 1103

Control remoto

El control remoto R100, fabricado por Grundfos está disponible como accesorio.

El operador puede comunicarse con la bomba NBE, NKE dirigiendo el transmisor de señal IR al panel de control de la caja de bornes de la bomba NBE, NKE.

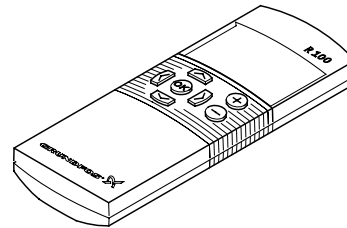


Fig. 40 Control remoto R100

TM00 4498 2802

El operador puede controlar y modificar modos de control y ajustes de la bomba NBE, NKE a través de la pantalla R100.

Panel de control

El operador puede modificar los ajustes del valor de consigna manualmente en el panel de control de la caja de bornes de la bomba NBE, NKE.

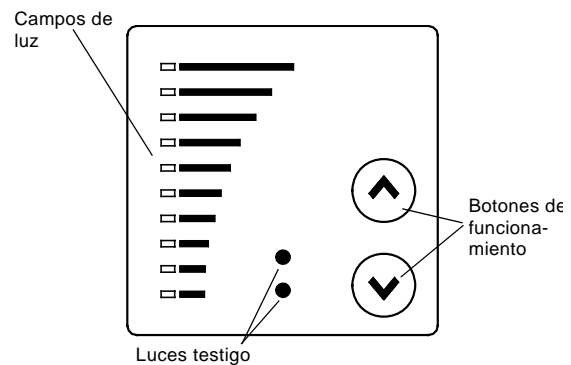


Fig. 41 Panel de control de una bomba NBE, NKE

TM00 7600 0404

Dimensionamiento de la bomba

El dimensionamiento de la bomba debe basarse en:

- el caudal y presión necesarios en el punto de extracción
- la pérdida de presión ocasionada por diferencias de altura
- pérdida por fricción en las tuberías.
Puede ser necesario compensar pérdidas de carga en conexión con tuberías largas, codos o válvulas, etc.
- rendimiento óptimo en el punto de trabajo estimado.

Rendimiento

Si espera que la bomba funcione siempre en el mismo punto de trabajo, seleccione una bomba que opere en un punto de trabajo que corresponda con un mayor rendimiento de la bomba.

En caso de una operación controlada o de consumo variable, seleccione una bomba cuyo mayor rendimiento esté incluido en el rango de trabajo que cubra la mayor parte de su periodo en funcionamiento.

Material

La versión de material deberá seleccionarse en función del líquido de bombeo, ver "Lista de líquidos bombeados", página 43.

Dimensionamiento del motor

El dimensionamiento del motor debe basarse en la potencia necesaria para alcanzar el punto de trabajo de la bomba elegida. Esta información aparece en el gráfico de potencias que se encuentra debajo de cada gráfico de funcionamiento. Ver curvas de funcionamiento en la página 58 a la página 269.

Buscar la curva de potencia que corresponda al valor QH necesario (o interpolar entre las curvas).

Para dimensionar el motor, leer el valor de la curva P_2 en el punto de trabajo y añadir un 5% de margen de seguridad.

Si hay que seleccionar el tamaño del motor según ISO 5199, ver la siguiente tabla.

Márgenes de seguridad según ISO 5199

| Potencia de bomba necesaria hasta [kW] | Potencia del motor P_2 [kW] |
|----------------------------------------|-------------------------------|
| 322 | 355 |
| 286 | 315 |
| 227 | 250 |
| 181 | 200 |
| 145 | 160 |
| 120 | 132 |
| 100 | 110 |
| 81 | 90 |
| 68 | 75 |
| 49 | 55 |
| 40 | 45 |
| 32,5 | 37 |
| 26 | 30 |
| 19 | 22 |
| 15,9 | 18,5 |
| 12,8 | 15 |
| 9,1 | 11 |
| 6,1 | 7,5 |
| 4,3 | 5,5 |
| 3,2 | 4 |
| 2,3 | 3 |
| 1,7 | 2,2 |
| 1,1 | 1,5 |
| 0,81 | 1,1 |
| 0,55 | 0,75 |
| 0,40 | 0,55 |
| 0,27 | 0,37 |
| 0,18 | 0,25 |

Líquidos bombeados

Recomendamos las bomba NB y NK para líquidos ligeros, limpios y no explosivos que no contengan partículas sólidas ni fibras. El líquido no debe afectar a los materiales de la bomba ni mecánica ni químicamente.

Si se bombean líquidos con una densidad y/o viscosidad superior a la del agua, utilizar motores con potencias correspondientes. Ver "Lista de líquidos bombeados".

El cierre mecánico debe ser apropiado para el líquido.

El agua de los sistemas de calefacción y ventilación a menudo contiene aditivos para prevenir efectos negativos tales como corrosión del sistema o depósitos calcáreos. Si quiere utilizarse la bomba para estos líquidos, usar cierres especiales para evitar la cristalización/precipitación entre las caras del cierre.

Temperatura del líquido: -25°C a $+140^{\circ}\text{C}$.

Para sistemas de calefacción, la calidad del agua debe cumplir con VDI 2035.

Lista de líquidos bombeados

La lista de las siguientes páginas ofrece una vista general de los líquidos que normalmente se bombean con las bombas NB y NK.

La lista indica los cierres recomendados. Pueden utilizarse otros cierres, pero consideramos que las mejores opciones son los indicados en la lista.

La lista sólo es una guía general y no puede sustituir las pruebas reales de líquidos bombeados y de materiales de la bomba bajo condiciones de trabajo específicas.

Sin embargo, utilizar esta tabla con precaución ya que algunos factores pueden afectar a la resistencia química de una versión específica de la bomba. Los factores son

- las condiciones de funcionamiento
- los sólidos
- los procedimientos de limpieza
- las sustancias contaminantes
- la presión.

Leyenda de las notas en la lista

| | |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| a | Para minimizar el riesgo de corrosión, la bomba debe funcionar continuamente, p. ej. las paradas no debe superar 6-8 horas. |
| b | Puede contener aditivos o impurezas que causen problemas en el cierre. |
| c | La bomba debe funcionar constantemente para prevenir la decoloración del alicatado de la piscina. Para un uso intermitente, debe utilizarse la versión N. |
| d | Densidad y viscosidad distinta a la del agua. Hay que tenerlo en cuenta al calcular el rendimiento del motor y de la bomba. |
| e | Para evitar la corrosión, el líquido debe estar libre de oxígeno. |
| f | Líquido inflamable o combustible. |
| g | Riesgo de cristalización/precipitación en el cierre. |

| Líquidos bombeados | Notas | Información adicional | Versión de material | | | | | Cierre |
|--------------------------------------|------------|---------------------------------------------|---------------------|---|---|---|---|--------------------------|
| | | | A | B | S | N | R | |
| Agua | | | | | | | | |
| Agua de minas con ácido | | Valor pH bajo, alto contenido en cloro | | | | x | x | BQQE |
| Agua alimentación calderas | | <120°C | x | | | | | BAQE |
| | | 120°C - 140°C | x | | | | | BQBE/DAQF ¹⁾ |
| Agua salobre | a | 30°C, 2000 ppm de cloro | | | | | x | BQQE |
| Condensado | | <90°C | x | | | | | BQQE |
| | | 90°C - 120°C | x | | | | | BAQE |
| | | 120°C - 140°C | x | | | | | BQBE/DAQF ¹⁾ |
| Lubricante refrigeración y corte | | | x | | | | | BQQV |
| Agua desmineralizada | | <90°C | | | | | x | BQQE |
| Agua de calefacción de distrito | | <120°C | | | | | | BAQE |
| | | 120°C - 140°C | x | | | | | BQBE/DAQF ¹⁾ |
| Aguas subterráneas | | <90°C | x | x | x | | | BQQE |
| | | >90°C | x | x | x | | | BAQE ²⁾ /BQBE |
| Agua que contiene aceite | | <90°C | x | | | | | BQQV |
| Agua blanda | | <90°C | | x | x | | | BQQE |
| | | 90°C - 120°C | | x | x | | | BAQE ²⁾ |
| Agua salobre | a | <35°C | | | | | x | BQQE |
| Agua de piscinas, clorada | c | 40°C, 150 ppm Cl- (< 2 ppm libres de cloro) | | x | x | | | BQQE |
| Refrigerantes | | | | | | | | |
| Cloruro de calcio | b, d, e, g | <5°C, 30% | x | | | | | BQQE/GQQE |
| Etilen glicol | b, d | <50°C | x | | | | | BQQE/GQQE |
| Glicerina (glicerol) | b, d | <50°C | x | | | | | BQQE/GQQE |
| Anticongelante con hidrocarbano | d, f | 50°C | x | | | | | BQQV/GQQV |
| Acetato potásico (inhibido) | b, d, e, g | <20°C | x | x | x | | | BQQE/GQQE |
| Formato potásico (inhibido) | b, d, e, g | <20°C | x | x | x | | | BQQE/GQQE |
| Propilen glicol | b, d | <50°C | x | | | | | BQQE/GQQE |
| Cloruro de sodio | b, d, e, g | <5°C, 30% | x | | | | | BQQE/GQQE |
| Combustibles | | | | | | | | |
| Biodiésel | f | | x | | | | | BAQV |
| Gasoil | f | | x | | | | | BAQV |
| Combustible para aviones de reacción | f | | x | | | | | BAQV |
| Queroseno | f | | x | | | | | BAQV |
| Nafta | f | | x | | | | | BAQV |
| Gasolina | f | | x | | | | | BAQV |
| Aceites minerales | | | | | | | | |
| Aceite crudo | b, d, f | <20°C | | | | x | | BQQV |
| Aceite mineral lubricante | d, f | | x | | | | | BAQV/BQQV |
| Aceite mineral para motor | d, f | | x | | | | | BAQV/BQQV |
| Aceites sintéticos | | | | | | | | |
| Aceite sintético lubricante | d, f | | x | | | | | BAQV/BQQV |
| Aceite sintético para motor | d, f | | x | | | | | BAQV/BQQV |
| Aceite de silicona | d | | x | | | | | BAQV/BQQV |
| Aceites vegetales | | | | | | | | |
| Aceite de maíz | b, d | | x | | x | | | BAQV/BQQV |
| Aceite de oliva | b, d | | x | | x | | | BAQV/BQQV |
| Aceite de cacahuètes | b, d | | x | | x | | | BAQV/BQQV |
| Aceite de colza | b, d | | x | | x | | | BAQV/BQQV |
| Aceite de soja | b, d | | x | | x | | | BAQV/BQQV |
| Limpieza | | | | | | | | |
| Agente alcalino desengrasante | b, h | <80°C | x | | x | | | BQQE/DAQF ⁴⁾ |
| Jabón (sales de ácidos grasos) | b | <80°C | x | x | x | | | BQQV |
| Disolventes orgánicos | | | | | | | | |
| Acetona | f | 40°C | x | | | | | BAQE ³⁾ /BBQE |
| Alcohol etílico (etanol) | f | 40°C | x | | | | | BAQE ³⁾ /BBQE |
| Peróxido de hidrógeno | | 20°C, 5% | | | | | x | BQQE |

| Líquidos bombeados | Notas | Información adicional | Versión de material | | | | | Cierre |
|----------------------------|---------|-----------------------|---------------------|---|---|---|---|--------------------------|
| | | | A | B | S | N | R | |
| Alcohol isopropílico | f | 40°C | x | | | | | BAQE ³⁾ /BBQE |
| Alcohol metílico (metanol) | f | 40°C | x | | | | | BAQE ³⁾ /BBQE |
| Oxidantes | | | | | | | | |
| Hipoclorito sódico | | 20°C, 0.1% | | | | | x | BQQV |
| Sales | | | | | | | | |
| Bicarbonato amónico | b, d | 20°C, 15% | x | | | | | BQQE |
| | | 60°C, 20% | | | | x | | BQQE |
| Sulfato de cobre | b, d, g | 60°C, 20% | | | | x | x | BQQE |
| Sulfato férrico | b, d, g | 20°C, 20% | | | | x | x | BQQE |
| Bicarbonato potásico | b, d | 20°C, 20% | x | | | | | BQQE |
| | | 60°C, 20% | | | | x | | BQQE |
| Carbonato sódico | b, d, g | 20°C, 20% | | | | x | | BQQE |
| | | 60°C, 20% | | | | x | | BQQE |
| Permanganato potásico | b, d | 20°C, 1% | | | | x | | BQQE |
| | | 50°C, 10% | | | | x | | BQQE |
| Nitrato de sodio | b, d | 20°C, 5% | | | | x | | BQQE |
| | | 60°C, 20% | | | | x | | BQQE |
| Nitrito de sodio | b, d | 20°C, 20% | x | | | | | BQQE |
| | | 60°C, 20% | | | | x | | BQQE |
| Fosfato sódico (mono) | b, d | 60°C, 20% | | | | x | | BQQE |
| Fosfato sódico (di) | b, d | 30°C, 20% | | | | x | | BQQE |
| | | 60°C, 20% | | | | x | | BQQE |
| Fosfato sódico (tri) | b, d, g | 20°C, 10% | | | | x | | BQQE |
| | | 70°C, 20% | | | | x | | BQQE |
| Sulfato de sodio | b, d, g | 60°C, 20% | | | | x | | BQQE |
| Sulfito de sodio | b, d, g | 20°C, 1% | | | | x | | BQQE |
| | | 60°C, 20% | | | | x | | BQQE |
| Ácidos | | | | | | | | |
| Ácido acético | | 20°C, 15% | | | | x | | BQQE |
| Ácido crómico | | 20°C, 10% | | | | | x | BQQE |
| Ácido cítrico | d | 50°C, 20% | | | | x | | BQQE |
| Ácido fórmico | d | 20°C, 30% | | | | x | | BQQE |
| Ácido nítrico | d | 20°C, 40% | | | | x | | BQQE |
| Ácido oxálico | g | 20°C, 10% | | | | | x | BQQE |
| Ácido fosfórico | b, d, g | 70°C, 40% | | | | x | | BQQE |
| Ácido sulfúrico | b, d | 20°C, 20% | | | | | x | BQQV |
| Ácido sulfuroso | | 20°C, 5% | | | | | x | BQQV |
| Alcalís | | | | | | | | |
| Hidróxido amónico | | 30°C, 30% | x | | | | | BQQE |
| Hidróxido de calcio | b | 30°C, 5% | | | | x | | BQQE |
| | | 20°C, 20% | | | | x | | BQQE |
| Hidróxido potásico | d, g | 60°C, 20% | | | | x | | BQQE |
| | | 20°C, 20% | | | | x | | BQQE |
| Hidróxido de sodio | d, g | 80°C, 20% | | | | x | | BQQE |

1) Los diámetros medido en el extremo del eje (d5) son 24, 32, 42, 48, 55 ó 60 mm. Los cierres BQBE pueden utilizarse para diámetros del extremo del eje (d5) de 24 ó 32 mm. Los cierres DAQF pueden utilizarse para los cinco diámetros de eje.

2) No utilizar BAQE para agua potable. Para agua potable, recomendamos los cierres BBQE.

3) Si se diluye en agua, utilizar BBQE.

4) Si continen restos de aceite, utilizar DAQF.

Las siguientes tablas proporcionan todos los datos eléctricos para motores NB(E) y NK(E).

Nota: Para obtener más información acerca de los datos eléctricos de los motores MMG modelo E, TECO de rendimiento 1 y TECO de rendimiento 2, ver página 278 a 281.

Datos eléctricos, motores

NB, NK, gama de motor estándar, 2 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|---------|---------------------|-----------|----------------------|-----------|----------------------|------------------------|------------------------------------------|
| MG | 80A-C | 3x220-240Δ/380-415Y | 0,75 | 3,3/1,9 | 80-80 | 0,81-0,71 | 2840-2870 | 5,8-6,2 |
| MG | 80B-C | | 1,1 | 4,5/2,6 | 81-81 | 0,81-0,75 | 2820-2850 | 5,8-6,3 |
| MG | 90SA-C | | 1,5 | 5,9/3,4 | 82-82 | 0,85-0,79 | 2860-2890 | 6,3-6,9 |
| MG | 90LA-C | | 2,2 | 8,25/4,75 | 84-84 | 0,87-0,82 | 2860-2890 | 7,0-7,6 |
| MG | 100LB-C | | 3 | 10,8/6,25 | 85-85 | 0,88-0,82 | 2880-2910 | 7,8-8,5 |
| MG | 112MB-C | | 4 | 13,8/8,0 | 86-86 | 0,90-0,87 | 2900-2910 | 8,7-9,5 |
| MG | 90LA-C | 3x380-415Δ | 2,2 | 4,75 | 84-84 | 0,87-0,82 | 2860-2890 | 7,0-7,6 |
| MG | 100LB-C | | 3 | 6,25 | 85-85 | 0,88-0,82 | 2880-2910 | 7,8-8,5 |
| MG | 112MB-C | | 4 | 8,0 | 86-86 | 0,90-0,87 | 2900-2910 | 8,7-9,5 |
| MG | 132SB-C | | 5,5 | 11,0 | 87,5-87,5 | 0,89-0,86 | 2890-2910 | 8,9-9,7 |
| MG | 132SC-C | | 7,5 | 15,2 | 88-88 | 0,87-0,81 | 2890-2910 | 9,1-9,9 |
| MMG | 160MA-E | | 11 | 20,2/11,6 | 89,3 | 0,89 | 2930 | 5,6 |
| MMG | 160MB-E | 15 | 26,5/15,2 | 91,0 | 0,87 | 2940 | 5,8 | |
| MMG | 160L-E | 18,5 | 32,5/18,8 | 91,6 | 0,89 | 2940 | 6,5 | |
| MMG | 180M-E | 22 | 39,5/22,8 | 91,0 | 0,89 | 2950 | 7,4 | |
| MMG | 200LA-E | 30 | 57,5/33,0 | 92,2 | 0,88 | 2960 | 7,0 | |
| MMG | 200LB-E | 37 | 65,0/37,5 | 92,0 | 0,89 | 2960 | 7,6 | |
| MMG | 225M-E | 45 | 78,0/45,0 | 93,5 | 0,89 | 2980 | 7,4 | |
| MMG | 250M-E | 55 | 96,5/55,5 | 93,0 | 0,90 | 2960 | 7,9 | |
| MMG | 280S-E | 3x380-415Δ/660-690Y | 75 | 130/75,0 | 94,0 | 0,89 | 2970 | 6,6 |
| MMG | 280M-E | | 90 | 154/89,0 | 95,0 | 0,90 | 2980 | 7,2 |
| MMG | 315S-E | | 110 | 188/108 | 94,0 | 0,90 | 2980 | 7,2 |
| MMG | 315M-E | | 132 | 222/128 | 95,0 | 0,90 | 2980 | 7,5 |
| MMG | 315LA-E | | 160 | 270/156 | 95,7 | 0,91 | 2980 | 6,0 |
| MMG | 315LB-E | | 200 | 330/190 | 95,0 | 0,92 | 2980 | 5,8 |
| MMG | 355M-E | | 250 | 435/250 | 95,5 | 0,92 | 2980 | 6,2 |
| MMG | 355L-E | | 315 | 525/303 | 95,5 | 0,91 | 2980 | 6,9 |
| MMG | 355L-E | | 355 | 630/360 | 95,4 | 0,90 | 2980 | 7,1 |

NB, NK, gama de motor estándar, 4 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|----------|---------------------|---------|----------------------|---------|----------------------|------------------------|------------------------------------------|
| MG | 71A-C | 3x220-240D/380-415Y | 0,25 | 1,48/0,85 | 69-69 | 0,75-0,65 | 1400-1420 | 4,0-4,4 |
| MG | 71B-C | | 0,37 | 1,9/1,1 | 71-71 | 0,77-0,67 | 1400-1420 | 4,0-4,4 |
| MG | 80A-C | | 0,55 | 2,6/1,5 | 77-77 | 0,79-0,70 | 1390-1410 | 4,3-4,7 |
| MG | 80B-C | | 0,75 | 3,3/1,9 | 78-78 | 0,79-0,70 | 1390-1410 | 4,3-4,7 |
| MG | 90SA-C | | 1,1 | 5,0/2,9 | 78-78 | 0,78-0,71 | 1420-1440 | 4,3-4,7 |
| MG | 90LA-C | | 1,5 | 6,4/3,7 | 80-80 | 0,80-0,74 | 1420-1430 | 5,0-5,5 |
| MG | 100LB-C | | 2,2 | 9,2/5,3 | 82-82 | 0,80-0,73 | 1420-1440 | 5,2-5,7 |
| MG | 112MA-C | | 3 | 12,0/6,9 | 85-85 | 0,80-0,74 | 1440-1450 | 6,2-6,7 |
| MG | 112MB-C | | 4 | 15,4/8,9 | 86,5-87 | 0,82-0,76 | 1440-1450 | 6,6-7,2 |
| MG | 100 LA-D | | 2,2 | 5,3 | 83,5-84 | 0,79-0,76 | 1430-1440 | 5,4-5,9 |
| MG | 112LB-D | 3x380-415Δ | 3 | 6,9 | 85-85 | 0,80-0,74 | 1440-1450 | 6,2-6,7 |
| MG | 112MB-C | | 4 | 8,9 | 86,5-87 | 0,82-0,76 | 1440-1450 | 6,6-7,2 |
| MG | 132SC-C | | 5,5 | 12,6 | 87-87 | 0,80-0,74 | 1430-1450 | 6,3-6,9 |

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|---------|---------------------|---------|----------------------|-------|----------------------|------------------------|---------------------------------------------|
| MMG | 132SB-E | 3x380-415Δ/660-690Y | 7,5 | 14,4/8,3 | 89,1 | 0,84 | 1445 | 7,8 |
| MMG | 160MA-E | | 11 | 21,0/12,2 | 89,8 | 0,84 | 1460 | 7,4 |
| MMG | 160MB-E | | 15 | 28,5/16,4 | 89,4 | 0,85 | 1460 | 7,8 |
| MMG | 180M-E | | 18,5 | 33,5/19,4 | 91,2 | 0,86 | 1465 | 7,6 |
| MMG | 180L-E | | 22 | 39,0/22,6 | 91,4 | 0,86 | 1465 | 7,8 |
| MMG | 200L-E | | 30 | 53,5/31,0 | 91,5 | 0,88 | 1470 | 7,5 |
| MMG | 225S-E | | 37 | 71,0/41,0 | 92,0 | 0,89 | 1480 | 6,9 |
| MMG | 225M-E | | 45 | 78,0/45,0 | 92,5 | 0,89 | 1480 | 7,5 |
| MMG | 250M-E | | 55 | 95,0/55,0 | 93,0 | 0,89 | 1480 | 7,5 |
| MMG | 280S-E | | 75 | 128/74,0 | 94,5 | 0,87 | 1480 | 7,4 |
| MMG | 280M-E | | 90 | 150/86,5 | 94,0 | 0,88 | 1480 | 7,5 |
| MMG | 315S-E | | 110 | 192/110 | 94,5 | 0,91 | 1490 | 7,3 |
| MMG | 315M-E | | 132 | 226/130 | 95,0 | 0,89 | 1490 | 6,7 |
| MMG | 315LA-E | | 160 | 270/156 | 95,0 | 0,89 | 1490 | 6,7 |
| MMG | 315LB-E | | 200 | 340/196 | 95,5 | 0,89 | 1490 | 5,5 |
| MMG | 355M-E | | 250 | 410/236 | 95,5 | 0,91 | 1490 | 6,4 |
| MMG | 355L-E | | 315 | 525/300 | 96,0 | 0,89 | 1490 | 6,8 |

NB, NK, gama de motor estándar, 6 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|---------|---------------------|-----------|----------------------|-------|----------------------|------------------------|---------------------------------------------|
| MMG | 80B-E | 3x220-240Δ/380-415Y | 0,55 | 1,7/0,98 | 66,0 | 0,72 | 890 | 3,0 |
| MMG | 90S-E | | 0,75 | 2,15/1,24 | 70,3 | 0,72 | 910 | 3,5 |
| MMG | 90L-E | | 1,1 | 2,95/1,7 | 73,0 | 0,74 | 910 | 3,6 |
| MMG | 100L-E | | 1,5 | 3,7/2,14 | 76,3 | 0,77 | 920 | 4,3 |
| MMG | 112M-E | | 2,2 | 5,2/3,0 | 81,4 | 0,75 | 950 | 5,0 |
| MMG | 132S-E | | 3 | 6,7/3,85 | 84,1 | 0,77 | 960 | 6,0 |
| MMG | 132MA-E | | 4 | 8,85/5,1 | 84,7 | 0,77 | 960 | 6,4 |
| MMG | 112M-E | | 2,2 | 3,0/1,73 | 81,4 | 0,75 | 950 | 5,0 |
| MMG | 132S-E | | 3 | 3,85/2,2 | 84,1 | 0,77 | 960 | 6,0 |
| MMG | 132MA-E | | 4 | 5,1/2,94 | 84,7 | 0,77 | 960 | 6,4 |
| MMG | 132MB-E | | 5,5 | 11,4/6,65 | 86,4 | 0,80 | 960 | 5,9 |
| MMG | 160M-E | | 7,5 | 16,0/9,2 | 87,1 | 0,78 | 960 | 5,8 |
| MMG | 160L-E | 11 | 22,8/12,2 | 88,5 | 0,79 | 970 | 7,3 | |
| MMG | 180L-E | 15 | 31,5/18,2 | 80,5 | 0,67 | 940 | 5,9 | |
| MMG | 200LA-E | 18,5 | 35,5/20,4 | 90,5 | 0,83 | 980 | 7,8 | |
| MMG | 200LB-E | 22 | 41,5/24,0 | 91,5 | 0,84 | 980 | 6,6 | |
| MMG | 225M-E | 30 | 55,0/32,0 | 91,5 | 0,85 | 980 | 7,0 | |
| MMG | 250M-E | 37 | 65,5/37,5 | 92,5 | 0,88 | 980 | 7,0 | |
| MMG | 280S-E | 45 | 79,0/45,5 | 92,5 | 0,87 | 990 | 7,3 | |
| MMG | 280M-E | 55 | 97,0/56,0 | 93,5 | 0,87 | 990 | 7,2 | |
| MMG | 315S-E | 75 | 134/77,0 | 94,0 | 0,86 | 990 | 6,3 | |
| MMG | 315M-E | 90 | 158/91,0 | 94,5 | 0,87 | 990 | 5,9 | |
| MMG | 315L-E | 110 | 192/112 | 95,0 | 0,87 | 990 | 6,0 | |
| MMG | 315LB-E | 132 | 250/144 | 94,2 | 0,87 | 990 | 6,2 | |

NB, NK, gama de motor alta, 2 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|---------|---------|---------------------|-----------|----------------------|-----------|----------------------|------------------------|---------------------------------------------|
| MG | 80A-C | 3x220-240Δ/380-415Y | 0,75 | 3,3/1,9 | 80-80 | 0,81-0,71 | 2840-2870 | 5,8-6,2 |
| MG | 90SA-D | | 1,1 | 4,1/2,35 | 84-84 | 0,87-0,82 | 2890-2910 | 7,4-8,0 |
| MG | 90SB-D | | 1,5 | 5,45/3,15 | 85,5-85,5 | 0,87-0,82 | 2890-2910 | 8,5-9,3 |
| MG | 90LC-D | | 2,2 | 7,7/4,45 | 87,5-87,5 | 0,89-0,87 | 2890-2910 | 8,5-9,5 |
| MG | 100LC-D | | 3 | 10,9/6,3 | 87,5-87,5 | 0,87-0,82 | 2900-2920 | 8,4-9,2 |
| MG | 112MC-D | | 4 | 13,9/8,0 | 89-89 | 0,88-0,84 | 2910-2930 | 11,2-12,3 |
| MG | 90LC-D | | 2,2 | 4,45 | 87,5-87,5 | 0,89-0,87 | 2890-2910 | 8,5-9,5 |
| MG | 100LC-D | 3x380-415Δ | 3 | 6,3 | 87,5-87,5 | 0,87-0,82 | 2900-2920 | 8,4-9,2 |
| MG | 112MC-D | | 4 | 8,0 | 89-89 | 0,88-0,84 | 2910-2930 | 11,2-12,3 |
| MG | 132SC-D | | 5,5 | 11,2 | 90-90 | 0,88-0,84 | 2910-2930 | 10,7-11,7 |
| MG | 132SD-D | | 7,5 | 15,2 | 89,5-89,5 | 0,87-0,80 | 2900-2920 | 10,0-11,1 |
| Siemens | 160M | | 11 | 19,4/11,2 | 91,0 | 0,90 | 2945 | 7,0 |
| Siemens | 160M | 15 | 26,3/15,2 | 91,5 | 0,90 | 2945 | 7,0 | |
| Siemens | 160L | 18,5 | 31,5/18,2 | 92,3 | 0,92 | 2940 | 7,0 | |
| Siemens | 180M | 22 | 38,0/21,9 | 93,0 | 0,89 | 2945 | 7,2 | |
| Siemens | 200L | 30 | 52,0/30,0 | 93,5 | 0,89 | 2950 | 7,0 | |
| Siemens | 200L | 37 | 64,0/37,0 | 94,0 | 0,89 | 2950 | 7,0 | |
| Siemens | 225M | 45 | 77,0/44,5 | 94,9 | 0,89 | 2965 | 7,3 | |
| Siemens | 250M | 55, | 93,0/53,7 | 95,3 | 0,90 | 2975 | 6,8 | |
| Siemens | 280S | 3x380-415Δ/660-690Y | 75 | 128/73,9 | 95,2 | 0,89 | 2975 | 7,0 |
| Siemens | 280M | | 90 | 150/86,6 | 95,6 | 0,90 | 2978 | 7,6 |
| Siemens | 315S | | 110 | 182/105 | 95,8 | 0,91 | 2982 | 6,9 |
| Siemens | 315M | | 132 | 220/127 | 96,0 | 0,91 | 2982 | 7,1 |
| Siemens | 315L | | 160 | 260/150 | 96,4 | 0,92 | 2982 | 7,1 |
| Siemens | 315L | | 200 | 320/185 | 96,5 | 0,93 | 2982 | 6,9 |
| Siemens | 315 | | 250 | 415/240 | 96,0 | 0,90 | 2979 | 7,0 |
| Siemens | 315 | | 315 | 520/300 | 96,6 | 0,91 | 2980 | 7,0 |
| Siemens | 355 | | 355 | 590/341 | 96,6 | 0,90 | 2982 | 6,5 |

NB, NK, gama de motor alta, 4 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|----------|---------------------|---------|----------------------|-------|----------------------|------------------------|---------------------------------------------|
| MG | 71A-C | 3x220-240Δ/380-415Y | 0,25 | 1,48/0,85 | 69-69 | 0,75-0,65 | 1400-1420 | 4,0-4,4 |
| MG | 71B-C | | 0,37 | 1,9/1,1 | 71-71 | 0,77-0,67 | 1400-1420 | 4,0-4,4 |
| MG | 80A-C | | 0,55 | 2,6/1,5 | 77-77 | 0,79-0,70 | 1390-1410 | 4,3-4,7 |
| MG | 80B-C | | 0,75 | 3,3/1,9 | 78-78 | 0,79-0,70 | 1390-1410 | 4,3-4,7 |
| MG | 90SB-D | | 1,1 | 4,7/2,7 | 83,8 | 0,78 | 1440 | 7,0 |
| MG | 90LC-D | | 1,5 | 6,2/3,6 | 85 | 0,77 | 1440 | 6,0 |
| MG | 100LB-D | | 2,2 | 8,5/4,9 | 86,4 | 0,82 | 1440 | 6,5 |
| MG | 100LC-D | | 3 | 11,8/6,75 | 87,4 | 0,81 | 1450 | 6,7 |
| MG | 112MC-D | | 4 | 15,4/8,9 | 88,3 | 0,81 | 1450 | 7,3 |
| MG | 100LB4-D | | 2,2 | 5,35 | 86,4 | 0,77/0,7 | 1440 | 6,2/6,7 |
| MG | 100LC4-D | | 3 | 7,2 | 87,4 | 0,77/0,7 | 1440 | 6,1/6,7 |
| MG | 112MC4-D | 3x380-415Δ | 4 | 8,9 | 88,3 | 0,81/0,75 | 1450 | 7,3/8,0 |

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|---------|--------|---------------------|---------|----------------------|-------|----------------------|------------------------|------------------------------------------|
| Siemens | 132S | 3x380-415Δ/660-690Y | 5,5 | 10,6/6,1 | 89,5 | 0,84 | 1455 | 7,0 |
| Siemens | 132M | | 7,5 | 14,3/8,3 | 90,3 | 0,84 | 1455 | 7,0 |
| Siemens | 160M | | 11 | 20,5/11,8 | 91,5 | 0,85 | 1460 | 6,9 |
| Siemens | 160L | | 15 | 27,5/15,9 | 92,0 | 0,86 | 1460 | 7,0 |
| Siemens | 180M | | 18,5 | 34,5/19,9 | 92,5 | 0,84 | 1465 | 7,0 |
| Siemens | 180L | | 22 | 40,5/23,4 | 93,0 | 0,84 | 1465 | 7,3 |
| Siemens | 200L | | 30 | 53,0/30,6 | 93,5 | 0,87 | 1465 | 7,0 |
| Siemens | 225S | | 37 | 67,0/38,7 | 94,0 | 0,85 | 1480 | 6,8 |
| Siemens | 225M | | 45 | 81,0/46,8 | 94,5 | 0,85 | 1480 | 6,9 |
| Siemens | 250M | | 55 | 96,0/55,4 | 95,1 | 0,87 | 1485 | 7,5 |
| Siemens | 280S | | 75 | 130/75,0 | 95,1 | 0,87 | 1485 | 6,8 |
| Siemens | 280M | | 90 | 158/91,2 | 95,4 | 0,86 | 1486 | 7,5 |
| Siemens | 315S | | 110 | 190/110 | 95,9 | 0,87 | 1488 | 7,1 |
| Siemens | 315MA | | 132 | 225/130 | 96,1 | 0,88 | 1488 | 7,3 |
| Siemens | 315MB | | 160 | 275/159 | 96,3 | 0,88 | 1490 | 7,4 |
| Siemens | 315L | | 200 | 340/196 | 96,4 | 0,88 | 1490 | 7,6 |
| Siemens | 315 | | 250 | 425/245 | 96,0 | 0,88 | 1488 | 6,5 |
| Siemens | 315 | | 315 | 540/312 | 96,3 | 0,88 | 1488 | 6,8 |

NB, NK, gama de motor alta, 6 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|---------|--------|---------------------|---------|----------------------|-------|----------------------|------------------------|------------------------------------------|
| Siemens | 80B | 3x220-240Δ/380-415Y | 0,55 | 2,77/1,60 | 67,0 | 0,74 | 910 | 3 |
| Siemens | 90S | | 0,75 | 3,46/2,00 | 75,5 | 0,72 | 925 | 4 |
| Siemens | 90L | | 1,1 | 4,85/2,80 | 82,0 | 0,70 | 940 | 6 |
| Siemens | 100L | | 1,5 | 6,32/3,65 | 85,0 | 0,70 | 950 | 6 |
| Siemens | 112M | | 2,2 | 9,35/5,40 | 84,0 | 0,70 | 955 | 6 |
| Siemens | 132SA | | 3 | 10,5/6,10 | 84,0 | 0,85 | 955 | 7 |
| Siemens | 132MA | | 4 | 14,7/8,50 | 84,0 | 0,81 | 950 | 6 |
| Siemens | 112M | | 2,2 | 5,40/3,12 | 84,0 | 0,70 | 955 | 6 |
| Siemens | 132SA | | 3 | 6,10/3,50 | 84,0 | 0,84 | 955 | 7 |
| Siemens | 132MA | | 4 | 8,50/4,91 | 84,0 | 0,81 | 950 | 6 |
| Siemens | 132MB | | 5,5 | 12,0/6,93 | 86,0 | 0,77 | 960 | 7 |
| Siemens | 160M | | 7,5 | 17,1/9,87 | 88,0 | 0,72 | 965 | 6 |
| Siemens | 160L | | 11 | 23,0/13,3 | 88,5 | 0,78 | 960 | 7 |
| Siemens | 180L | | 15 | 31,5/18,2 | 91,0 | 0,75 | 970 | 7 |
| Siemens | 200LA | | 18,5 | 38,0/21,9 | 91,0 | 0,77 | 975 | 6 |
| Siemens | 200LB | | 22 | 45,0/26,0 | 91,5 | 0,77 | 975 | 6 |
| Siemens | 225M | 3x380-415Δ/660-690Y | 30 | 56,0/32,3 | 93,2 | 0,83 | 980 | 7 |
| Siemens | 250M | | 37 | 69,0/39,8 | 93,7 | 0,83 | 985 | 7 |
| Siemens | 280S | | 45 | 81,0/46,8 | 94,4 | 0,85 | 988 | 7 |
| Siemens | 280M | | 55 | 99,0/57,2 | 94,6 | 0,85 | 988 | 7 |
| Siemens | 315S | | 75 | 138/79,7 | 95,0 | 0,83 | 990 | 7 |
| Siemens | 315MA | | 90 | 160/92,4 | 95,3 | 0,85 | 990 | 7 |
| Siemens | 315MB | | 110 | 196/113 | 95,6 | 0,85 | 990 | 7 |
| Siemens | 315L | | 132 | 235/136 | 95,8 | 0,85 | 990 | 8 |

Datos eléctricos, motores con convertidor de frecuencia integrado

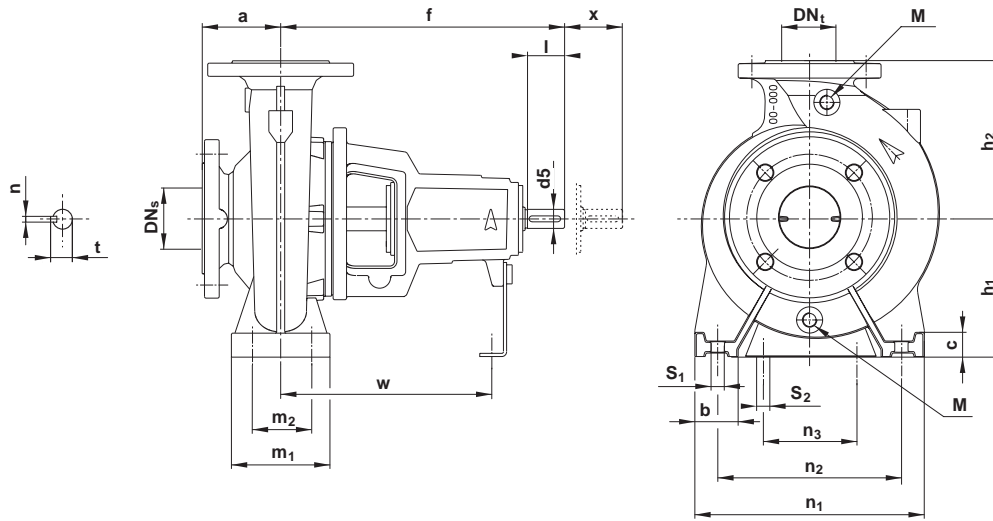
Gama NBE, NKE, 2 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] |
|-------|---------|---------------|---------|----------------------|
| MGE | 90SB-D | 3 x 380-480 V | 1,5 | 3,3 - 2,7 |
| MGE | 90LC-D | | 2,2 | 4,6 - 3,8 |
| MGE | 100LC-D | | 3 | 6,2 - 5,0 |
| MGE | 112MC-D | | 4 | 8,1 - 6,6 |
| MGE | 132SC-D | | 5,5 | 11,0 - 8,8 |
| MGE | 132SD-D | | 7,5 | 15,0 - 12,0 |
| MMGE | 160M | 3 x 380-415 V | 11 | 21,4 |
| MMGE | 160MX | | 15 | 28,0 |
| MMGE | 160L | | 18,5 | 34,0 |
| MMGE | 180M | | 22 | 42,0 |

Gama NBE, NKE, 4 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] |
|-------|---------|---------------|---------|----------------------|
| MGE | 90SA-D | 3 x 380-480 V | 0,75 | 1,8-1,9 |
| MGE | 90SB-D | | 1,1 | 2,5 - 2,2 |
| MGE | 90LC-D | | 1,5 | 3,3 - 2,9 |
| MGE | 100LB-D | | 2,2 | 4,6 - 3,8 |
| MGE | 112LC-D | | 3 | 6,2 - 5,0 |
| MGE | 112MC-D | | 4 | 8,1 - 6,6 |
| MGE | 132SC-D | 3 x 380-415 V | 5,5 | 11,3 - 10,5 |
| MMGE | 160M | | 7,5 | 14,7 |
| MMGE | 160M | | 11 | 21,7 |
| MMGE | 160L | | 15 | 28,5 |
| MMGE | 180M | | 18,5 | 34,7 |
| MMGE | 180L | | 22 | 41,0 |

NK, modelo B



TM01 9274 4606

M Tapón de purga/tapón de cebado

| Tipo | Bomba [mm] | | | | | | | Patas soporte [mm] | | | | | | | Eje [mm] | | | | | Peso [kg] | | | | |
|-------------|-----------------|-----------------|-----|-----|----------------|----------------|------|--------------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|----|----|-----|-----------|----|----|-------------------|-------------------|
| | DN _s | DN _t | a | f | h ₁ | h ₂ | M | b | m ₁ | m ₂ | n ₁ | n ₂ | n ₃ | w | S ₁ | S ₂ | c | d5 | l | x | t | n | Cj ⁽¹⁾ | SS ⁽²⁾ |
| NK 32-125.1 | 50 | 32 | 80 | 360 | 112 | 140 | 3/8" | 50 | 100 | 70 | 190 | 140 | 110 | 260 | M12 | M12 | 14 | 24 | 50 | 100 | 27 | 8 | 34 | - |
| NK 32-125 | 50 | 32 | 80 | 360 | 112 | 140 | 3/8" | 50 | 100 | 70 | 190 | 140 | 110 | 260 | M12 | M12 | 14 | 24 | 50 | 100 | 27 | 8 | 34 | - |
| NK 32-160.1 | 50 | 32 | 80 | 360 | 132 | 160 | 3/8" | 50 | 100 | 70 | 240 | 190 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 37 | - |
| NK 32-160 | 50 | 32 | 80 | 360 | 132 | 160 | 3/8" | 50 | 100 | 70 | 240 | 190 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 37 | - |
| NK 32-200.1 | 50 | 32 | 80 | 360 | 160 | 180 | 3/8" | 50 | 100 | 70 | 240 | 190 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 47 | - |
| NK 32-200 | 50 | 32 | 80 | 360 | 160 | 180 | 3/8" | 50 | 100 | 70 | 240 | 190 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 47 | - |
| NK 32-250 | 50 | 32 | 100 | 360 | 180 | 225 | 3/8" | 65 | 125 | 95 | 320 | 250 | 110 | 260 | M12 | M12 | 26 | 24 | 50 | 100 | 27 | 8 | 55 | 59 |
| NK 40-125 | 65 | 40 | 80 | 360 | 112 | 140 | 3/8" | 50 | 100 | 70 | 210 | 160 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 34 | 40 |
| NK 40-160 | 65 | 40 | 80 | 360 | 132 | 160 | 3/8" | 50 | 100 | 70 | 240 | 190 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 39 | 41 |
| NK 40-200 | 65 | 40 | 100 | 360 | 160 | 180 | 3/8" | 50 | 100 | 70 | 265 | 212 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 49 | 51 |
| NK 40-250 | 65 | 40 | 100 | 360 | 180 | 225 | 3/8" | 65 | 125 | 95 | 320 | 250 | 110 | 260 | M12 | M12 | 19 | 24 | 50 | 100 | 27 | 8 | 64 | 59 |
| NK 40-315 | 65 | 40 | 125 | 470 | 200 | 250 | 1/2" | 65 | 125 | 95 | 345 | 280 | 110 | 340 | M12 | M12 | 24 | 32 | 80 | 100 | 35 | 10 | 113 | 104 |
| NK 50-125 | 65 | 50 | 100 | 360 | 132 | 160 | 3/8" | 50 | 100 | 70 | 240 | 190 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 34 | 43 |
| NK 50-160 | 65 | 50 | 100 | 360 | 160 | 180 | 3/8" | 50 | 100 | 70 | 265 | 212 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 42 | 45 |
| NK 50-200 | 65 | 50 | 100 | 360 | 160 | 200 | 3/8" | 50 | 100 | 70 | 265 | 212 | 110 | 260 | M12 | M12 | 18 | 24 | 50 | 100 | 27 | 8 | 56 | 52 |
| NK 50-250 | 65 | 50 | 100 | 360 | 180 | 225 | 3/8" | 65 | 125 | 95 | 320 | 250 | 110 | 260 | M12 | M12 | 19 | 24 | 50 | 100 | 27 | 8 | 67 | 57 |
| NK 50-315 | 65 | 50 | 125 | 470 | 225 | 280 | 1/2" | 65 | 125 | 95 | 345 | 280 | 110 | 340 | M12 | M12 | 31 | 32 | 80 | 100 | 35 | 10 | 117 | 109 |
| NK 65-125 | 80 | 65 | 100 | 360 | 160 | 180 | 3/8" | 65 | 125 | 95 | 280 | 212 | 110 | 260 | M12 | M12 | 19 | 24 | 50 | 100 | 27 | 8 | 41 | 47 |
| NK 65-160 | 80 | 65 | 100 | 360 | 160 | 200 | 3/8" | 65 | 125 | 95 | 280 | 212 | 110 | 260 | M12 | M12 | 19 | 24 | 50 | 100 | 27 | 8 | 46 | 47 |
| NK 65-200 | 80 | 65 | 100 | 360 | 180 | 225 | 3/8" | 65 | 125 | 95 | 320 | 250 | 110 | 260 | M12 | M12 | 19 | 24 | 50 | 140 | 27 | 8 | 55 | 58 |
| NK 65-250 | 80 | 65 | 100 | 470 | 200 | 250 | 3/8" | 80 | 160 | 120 | 360 | 280 | 110 | 340 | M16 | M12 | 23 | 32 | 80 | 140 | 35 | 10 | 98 | 96 |
| NK 65-315 | 80 | 65 | 125 | 470 | 225 | 280 | 3/8" | 80 | 160 | 120 | 400 | 315 | 110 | 340 | M16 | M12 | 23 | 32 | 80 | 140 | 35 | 10 | 111 | 116 |
| NK 80-160 | 100 | 80 | 125 | 360 | 180 | 225 | 3/8" | 65 | 125 | 95 | 320 | 250 | 110 | 260 | M12 | M12 | 19 | 24 | 50 | 140 | 27 | 8 | 55 | 58 |
| NK 80-200 | 100 | 80 | 125 | 470 | 180 | 250 | 3/8" | 65 | 125 | 95 | 345 | 280 | 110 | 340 | M12 | M12 | 19 | 32 | 80 | 140 | 35 | 10 | 73 | 89 |
| NK 80-250 | 100 | 80 | 125 | 470 | 200 | 280 | 3/8" | 80 | 160 | 120 | 400 | 315 | 110 | 340 | M16 | M12 | 23 | 32 | 80 | 140 | 35 | 10 | 93 | 108 |
| NK 80-315 | 100 | 80 | 125 | 470 | 250 | 315 | 3/8" | 80 | 160 | 120 | 400 | 315 | 110 | 340 | M16 | M12 | 23 | 32 | 80 | 140 | 35 | 10 | 121 | 128 |
| NK 80-315* | 100 | 80 | 125 | 530 | 250 | 315 | 3/8" | 80 | 160 | 120 | 400 | 315 | 110 | 370 | M16 | M12 | 23 | 42 | 110 | 140 | 45 | 12 | 152 | 156 |
| NK 80-400 | 100 | 80 | 125 | 530 | 280 | 355 | 1/2" | 80 | 160 | 120 | 435 | 355 | 110 | 370 | M16 | M12 | 31 | 42 | 110 | 140 | 45 | 12 | 203 | 197 |
| NK 100-160 | 125 | 100 | 125 | 360 | 200 | 280 | 3/8" | 80 | 160 | 120 | 360 | 280 | 110 | 260 | M16 | M12 | 21 | 24 | 50 | 140 | 27 | 8 | 74 | - |
| NK 100-200 | 125 | 100 | 125 | 470 | 200 | 280 | 1/2" | 80 | 160 | 120 | 360 | 280 | 110 | 340 | M16 | M12 | 23 | 32 | 80 | 140 | 35 | 10 | 83 | - |
| NK 100-250 | 125 | 100 | 140 | 470 | 225 | 280 | 1/2" | 80 | 160 | 120 | 400 | 315 | 110 | 340 | M16 | M12 | 24 | 32 | 80 | 140 | 35 | 10 | 101 | - |
| NK 100-315 | 125 | 100 | 140 | 470 | 250 | 315 | 1/2" | 80 | 160 | 120 | 400 | 315 | 110 | 340 | M16 | M12 | 23 | 32 | 80 | 140 | 35 | 10 | 130 | - |
| NK 100-315* | 125 | 100 | 140 | 530 | 250 | 315 | 1/2" | 80 | 160 | 120 | 400 | 315 | 110 | 370 | M16 | M12 | 23 | 42 | 110 | 140 | 45 | 12 | 161 | - |
| NK 100-400 | 125 | 100 | 140 | 530 | 280 | 355 | 1/2" | 100 | 200 | 150 | 500 | 400 | 110 | 370 | M20 | M12 | 30 | 42 | 110 | 140 | 45 | 12 | 239 | - |
| NK 125-200 | 150 | 125 | 140 | 470 | 250 | 315 | 1/2" | 80 | 160 | 120 | 400 | 315 | 110 | 340 | M16 | M12 | 23 | 32 | 80 | 140 | 35 | 10 | 123 | - |
| NK 125-250 | 150 | 125 | 140 | 470 | 250 | 355 | 1/2" | 80 | 160 | 120 | 400 | 315 | 110 | 340 | M16 | M12 | 23 | 32 | 80 | 140 | 35 | 10 | 133 | - |

Bomba NK a eje libre

NB, NBE, NK, NKE

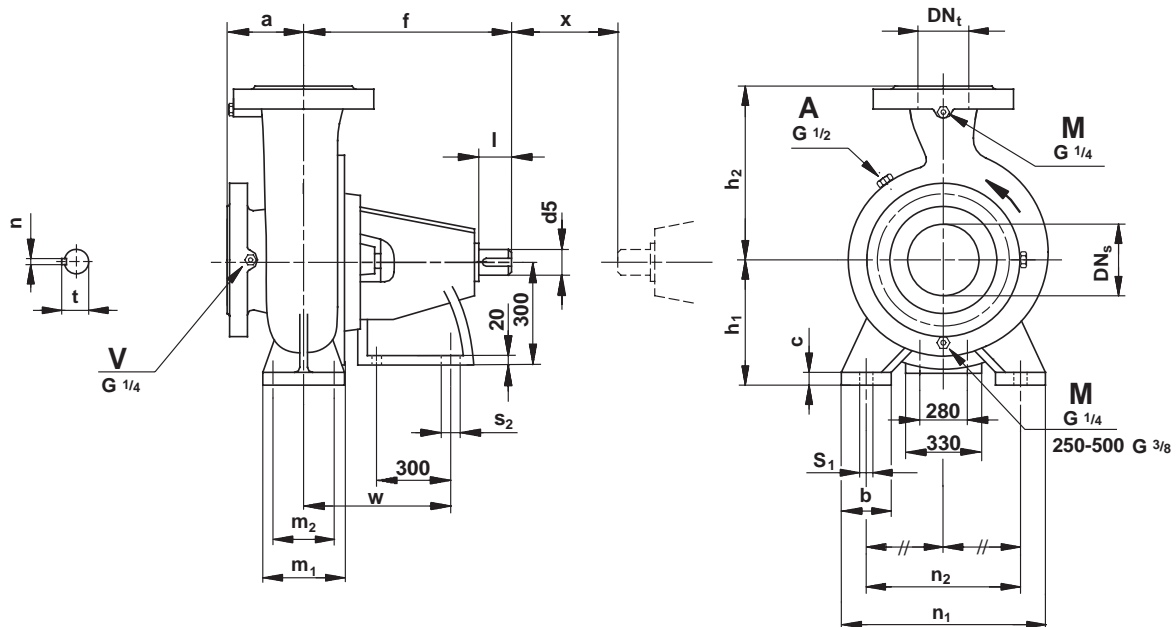
| Tipo | Bomba [mm] | | | | | | | Patas soporte [mm] | | | | | | | | | | Eje [mm] | | | | | Peso [kg] | |
|-------------|-----------------|-----------------|-----|-----|----------------|----------------|------|--------------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|----|----------|-----|-----|------|----|-------------------|-------------------|
| | DN _s | DN _t | a | f | h ₁ | h ₂ | M | b | m ₁ | m ₂ | n ₁ | n ₂ | n ₃ | w | S ₁ | S ₂ | c | d5 | l | x | t | n | CJ ⁽¹⁾ | SS ⁽²⁾ |
| NK 125-250* | 150 | 125 | 140 | 530 | 250 | 355 | 1/2" | 80 | 160 | 120 | 400 | 315 | 110 | 370 | M16 | M12 | 23 | 42 | 110 | 140 | 45 | 12 | 158 | - |
| NK 125-315 | 150 | 125 | 140 | 530 | 280 | 355 | 1/2" | 100 | 200 | 150 | 500 | 400 | 110 | 370 | M20 | M12 | 26 | 42 | 110 | 140 | 45 | 12 | 186 | - |
| NK 125-400 | 150 | 125 | 140 | 530 | 315 | 400 | 1/2" | 100 | 200 | 150 | 500 | 400 | 110 | 370 | M20 | M12 | 38 | 42 | 110 | 140 | 45 | 12 | 250 | - |
| NK 125-500 | 150 | 125 | 180 | 670 | 400 | 500 | 1/2" | 125 | 200 | 150 | 625 | 500 | 140 | 500 | M20 | M12 | 49 | 60 | 110 | 180 | 64 | 18 | 502 | - |
| NK 150-200 | 200 | 150 | 160 | 470 | 280 | 400 | 1/2" | 100 | 200 | 150 | 550 | 450 | 110 | 340 | M20 | M12 | 27 | 32 | 80 | 140 | 35 | 10 | 210 | - |
| NK 150-250 | 200 | 150 | 160 | 470 | 280 | 375 | 1/2" | 100 | 200 | 150 | 500 | 400 | 110 | 340 | M20 | M12 | 33 | 42 | 110 | 140 | 45 | 12 | 192 | - |
| NK 150-315 | 200 | 150 | 160 | 530 | 280 | 400 | 1/2" | 100 | 200 | 150 | 550 | 450 | 110 | 370 | M20 | M12 | 33 | 42 | 110 | 140 | 45 | 12 | 250 | - |
| NK 150-400 | 200 | 150 | 160 | 530 | 315 | 400 | 1/2" | 100 | 200 | 150 | 550 | 450 | 110 | 370 | M20 | M12 | 28 | 42 | 110 | 140 | 45 | 12 | 286 | - |
| NK 150-400* | 200 | 150 | 160 | 670 | 315 | 400 | 1/2" | 100 | 200 | 150 | 550 | 450 | 140 | 500 | M20 | M16 | 28 | 48 | 110 | 180 | 51.5 | 14 | 366 | - |
| NK 150-500 | 200 | 150 | 180 | 670 | 400 | 500 | 1/2" | 125 | 200 | 150 | 625 | 500 | 140 | 500 | M20 | M16 | 43 | 60 | 110 | 180 | 64 | 18 | 522 | - |

⁽¹⁾ CI: Versión de fundición

⁽²⁾ SS: Versión de acero inoxidable

* Sobredimensionada

NK, modelo A



TM01 2148 3803

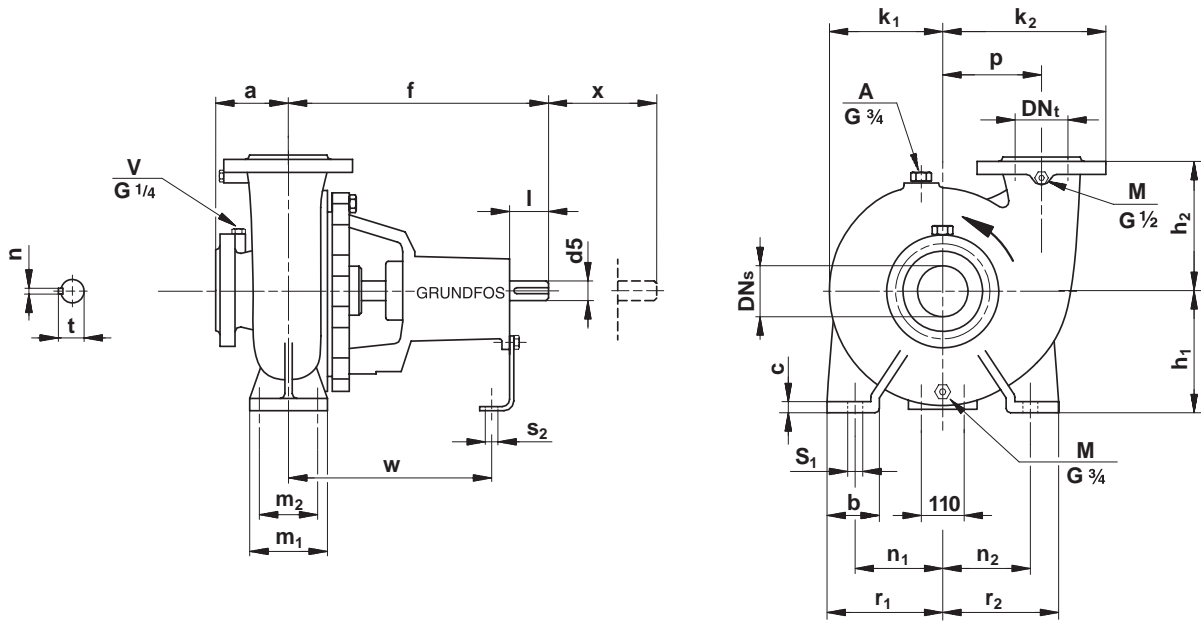
| Tipo | Bomba [mm] | | | | | | Patas soporte [mm] | | | | | | | | | | Eje [mm] | | | | | Peso [kg] |
|-------------|-----------------|-----------------|-----|-----|----------------|----------------|--------------------|----|----------------|----------------|----------------|----------------|----------------|----------------|-----|----|----------|----|----|-----|-----|-----------|
| | DN _s | DN _t | a | f | h ₁ | h ₂ | b | c | m ₁ | m ₂ | n ₁ | n ₂ | s ₁ | s ₂ | w | d5 | l | t | n | x | | |
| NK 200-500* | 250 | 200 | 250 | 750 | 410 | 675 | 140 | 22 | 250 | 190 | 790 | 660 | 28 | 24 | 536 | 55 | 140 | 59 | 16 | 180 | 480 | |
| NK 250-400* | 300 | 250 | 200 | 740 | 400 | 600 | 140 | 20 | 250 | 190 | 700 | 580 | 28 | 24 | 530 | 55 | 140 | 59 | 16 | 180 | 415 | |
| NK 250-500* | 300 | 250 | 300 | 750 | 410 | 660 | 140 | 23 | 250 | 190 | 790 | 660 | 28 | 24 | 536 | 55 | 140 | 59 | 16 | 180 | 507 | |

* Sobredimensionada

Bomba NK a eje libre

NB, NBE, NK, NKE

NK, modelo A

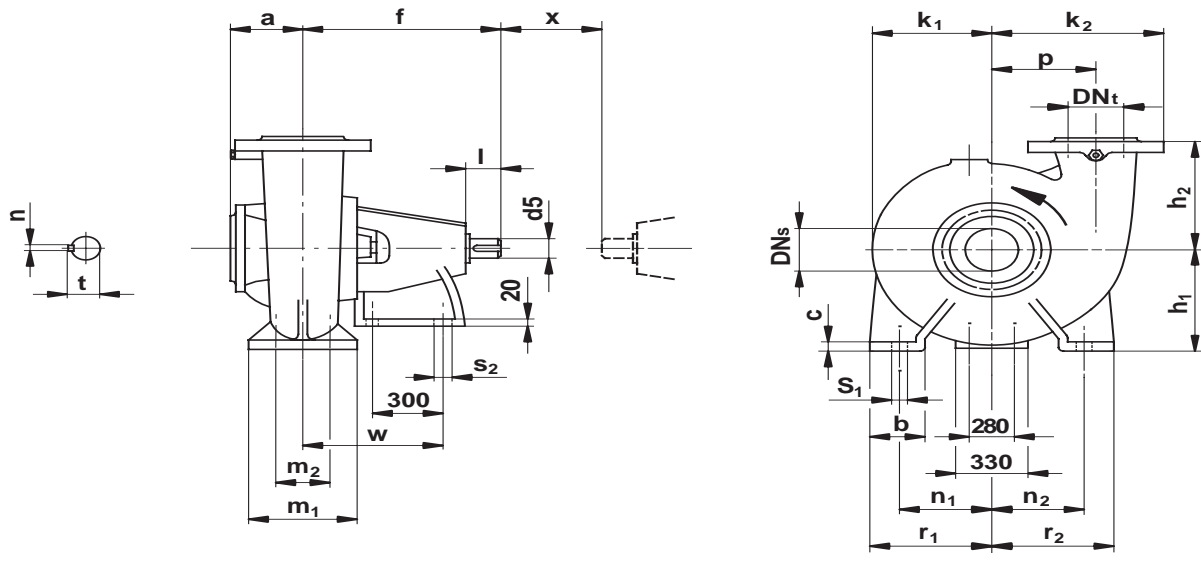


TM01 3281 3798

| Tipo | Bomba [mm] | | | | | | | | | Patas soporte [mm] | | | | | | | | Eje [mm] | | | | | Peso [kg] | | | |
|-------------|-----------------|-----------------|-----|-----|----------------|----------------|----------------|----------------|-----|--------------------|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----|-----|-----------|----|-----|-----|
| | DN _s | DN _t | a | f | h ₁ | h ₂ | k ₁ | k ₂ | p | b | c | m ₁ | m ₂ | n ₁ | n ₂ | r ₁ | r ₂ | s ₁ | s ₂ | w | d5 | l | | t | n | x |
| NK 250-310* | 300 | 250 | 250 | 565 | 400 | 400 | 358 | 498 | 295 | 140 | 22 | 300 | 250 | 330 | 330 | 400 | 400 | 28 | 20 | 400 | 42 | 110 | 45 | 12 | 180 | 350 |

* Sobredimensionada

NK, modelo A



TM01 0527 3803

| Tipo | Bomba [mm] | | | | | | | | | Patas soporte [mm] | | | | | | | | Eje [mm] | | | | | Peso [kg] | | | |
|-------------|-----------------|-----------------|-----|-----|----------------|----------------|----------------|----------------|-----|--------------------|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----|-----|-----------|----|-----|-----|
| | DN _s | DN _t | a | f | h ₁ | h ₂ | k ₁ | k ₂ | p | b | c | m ₁ | m ₂ | n ₁ | n ₂ | r ₁ | r ₂ | s ₁ | s ₂ | w | d5 | l | | t | n | x |
| NK 200-400* | 250 | 200 | 180 | 750 | 400 | 400 | 268 | 460 | 290 | 130 | 25 | 250 | 200 | 155 | 215 | 220 | 280 | 28 | 24 | 536 | 55 | 140 | 59 | 16 | 200 | 405 |
| NK 250-330* | 250 | 250 | 250 | 740 | 450 | 400 | 338 | 545 | 345 | 130 | 25 | 355 | 280 | 245 | 330 | 310 | 395 | 34 | 24 | 600 | 55 | 140 | 59 | 16 | 200 | 430 |
| NK 300-360* | 300 | 300 | 300 | 760 | 520 | 440 | 410 | 580 | 358 | 160 | 25 | 330 | 280 | 340 | 340 | 423 | 423 | 26 | 24 | 540 | 55 | 140 | 59 | 16 | 280 | 560 |

* Sobredimensionada

Bombas sobredimensionadas

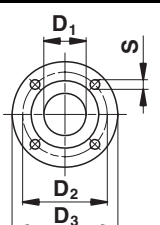
EN 733 describe únicamente los modelos estándar.

La gama NK incluye modelos más grandes (bombas sobredimensionadas) para caudales y alturas superiores.

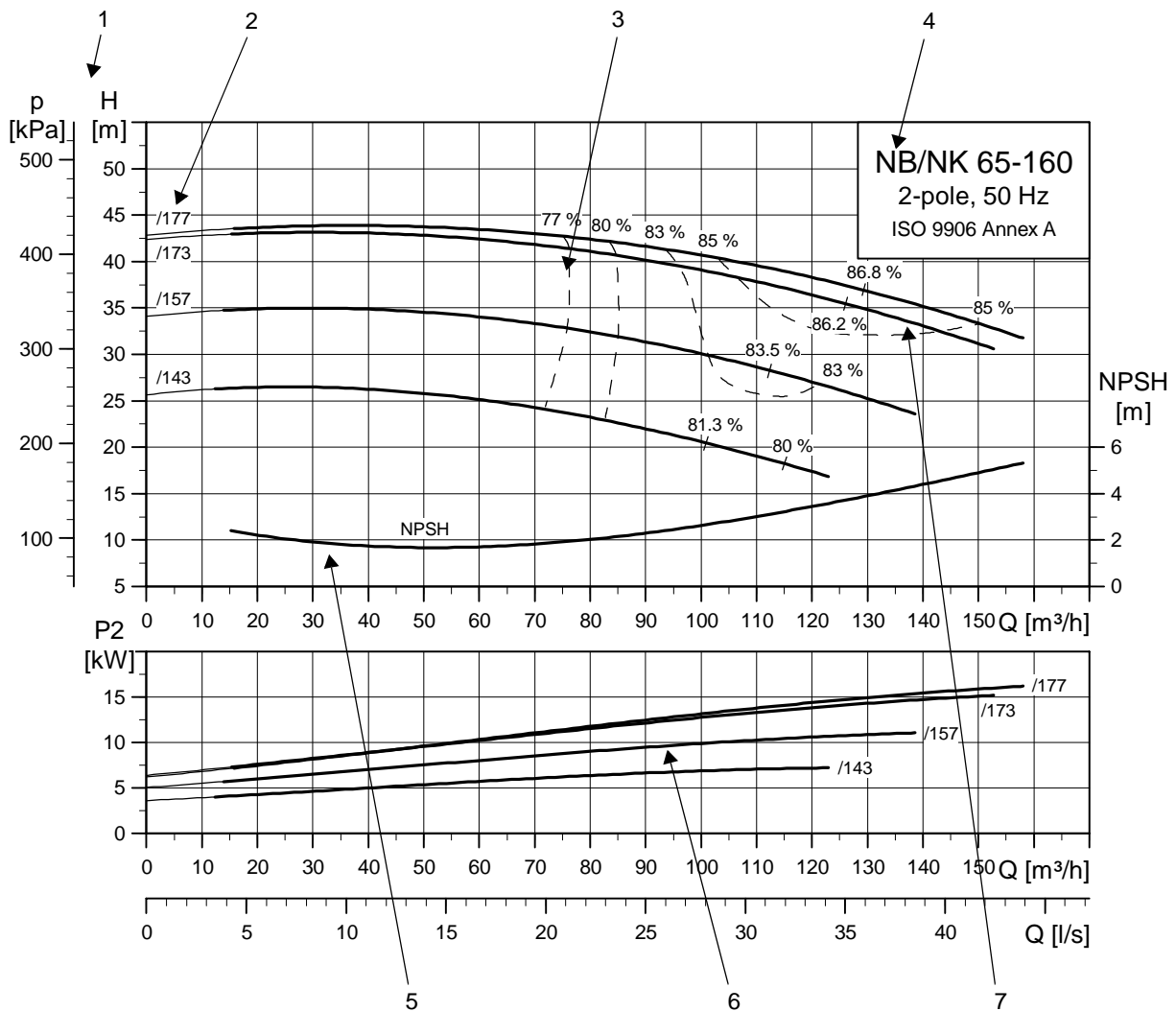
Dado que las bombas sobredimensionadas no cumplen la normativa, las dimensiones de las bombas sobredimensionadas NK de Grundfos puede diferir de las dimensiones de bombas similares de otros proveedores.

Dimensiones de la brida

Las dimensiones de la brida están en mm.

|  | EN 1092-2 - PN 10/16 | | | | | | | | EN 1092-2 - PN 10 | | |
|-----------------------------------------------------------------------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|-------------------|---------|---------|
| | Diámetro nominal (DN) | | | | | | | | | | |
| | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
| D₁ | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
| D₂ | 100 | 110 | 125 | 145 | 160 | 180 | 210 | 240 | 295 | 350 | 400 |
| D₃ | 140 | 150 | 165 | 185 | 200 | 220 | 250 | 285 | 340 | 395 | 445 |
| S | 4 x 19 | 4 x 19 | 4 x 19 | 4 x 19 | 8 x 19 | 8 x 19 | 8 x 19 | 8 x 23 | 8 x 23 | 12 x 23 | 12 x 23 |

Interpretación de las curvas



TM03 4213 1906

| | |
|---|-------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Altura de bombeo total, p [kPa] o H [m] = H _{total} |
| 2 | Diámetro del impulsor [mm] |
| 3 | Las curvas de eficiencia hidráulica se muestran como líneas discontinuas Eta [%] |
| 4 | Tipo de bomba, número de polos y frecuencia |
| 5 | La curva NPSH muestra el tamaño máximo de impulsor. Al dimensionar las bombas, añadir un margen de seguridad de por lo menos 0,5 m. |
| 6 | La curva de potencia indica la entrada de potencia de la bomba P ₂ [kW] |
| 7 | Curva QH de la bomba individual. La curva en negrita indica la gama de trabajo recomendada . |

Condiciones de curva

Las siguientes indicaciones se refieren a las curvas de los gráficos de trabajo en página 58 a 267.

- Tolerancias según ISO 9906, Anexo A.
- Las curvas muestran el funcionamiento de la bomba con diferentes diámetros de impulsor a la velocidad nominal.
- Las partes en **negrita** de las curvas indican el rango de funcionamiento **recomendado**.
- Las partes delgadas no son recomendables, ya que el rango de funcionamiento posible en esta zona podría sugerir la selección de un tipo de bomba más pequeño/más grande.
- No utilizar las bombas con caudales mínimo inferiores a $0,1 \times Q_{max}$ debido al riesgo de sobrecalentamiento de la bomba.
- Las curvas se refieren al agua bombeada a una temperatura de $+20^{\circ}\text{C}$ y una viscosidad cinemática de $1 \text{ mm}^2/\text{s}$ (1 cSt).
- **Eta**: Las líneas discontinuas muestran valores del rendimiento hidráulico de la bomba.
- **NPSH**: Las curvas muestran los valores medios obtenidos bajo las mismas condiciones que las curvas de funcionamiento.
Al dimensionar las bombas, añadir un margen de seguridad de por lo menos 0,5 m.
- En caso de densidades distintas de 1000 kg/m^3 , la presión de descarga es proporcional a la densidad.
- Al bombear líquidos con una densidad mayor de 1000 kg/m^3 , se deben utilizar motores de mayor potencia.

Cálculo de la altura total

La altura total de la bomba consiste en la diferencia de altura entre los puntos de medida + la altura diferencial + la altura dinámica.

$$H_{total} = H_{geo} + H_{stat} + H_{dyn}$$

| | |
|------------|---------------------------------------------------------------------------------------------------------------------|
| H_{geo} | Diferencias de altura entre los puntos de medida. |
| H_{stat} | Altura diferencial entre los lados de aspiración y de descarga de la bomba. |
| H_{dyn} | Valores calculados basados en la velocidad del líquido bombeado en el lado de aspiración y de descarga de la bomba. |

Pruebas de funcionamiento

El punto de trabajo necesario para cada bomba se comprueba según ISO 9906, Anexo A, y sin certificación.

Si el cliente necesita comprobar más puntos en la curva o un determinado mínimo de funcionamientos o certificados, deben realizarse mediciones individuales.

Certificados

Deben confirmarse certificados para cada pedido y están disponibles a petición como sigue:

- Certificado de conformidad con el pedido EN 10204-2.1
- Certificado de la bomba EN 10204-2.2
- Certificado de fábrica EN 10204-2.3 (NK modelo A)
- Certificado de inspección EN 10204-3.1.B
- Certificado de inspección EN 10204-3.1.C.

Datos técnicos

Las dimensiones de la bomba de las siguientes páginas incluyen

- **NB/NK**:
Datos basados en la gama alta NB/NK. Son bombas equipadas con motores Grundfos MG (rendimiento 1) o motores Siemens (rendimiento 1).
Nota: Ver las tablas de corrección en las páginas 282 y 286 para dimensiones de bombas con motores MG de rendimiento 2, MMG modelo E, TECO de rendimiento 1 y TECO de rendimiento 2.
- **NBE/NKE**:
Datos de bombas equipadas con motores con convertidor de frecuencia integrados, tipo MGE/MMGE.

Vista general – Curvas/ datos técnicos

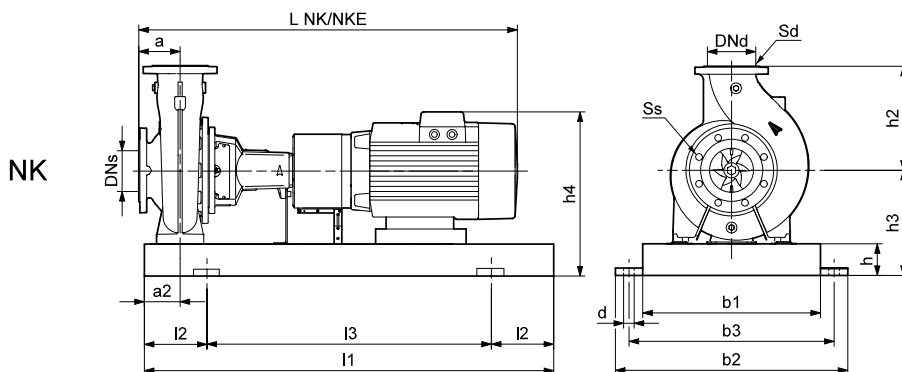
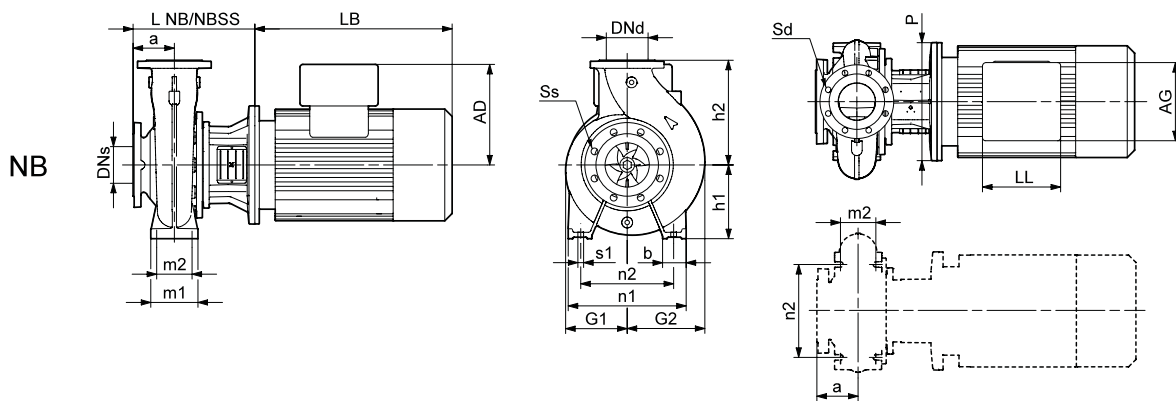
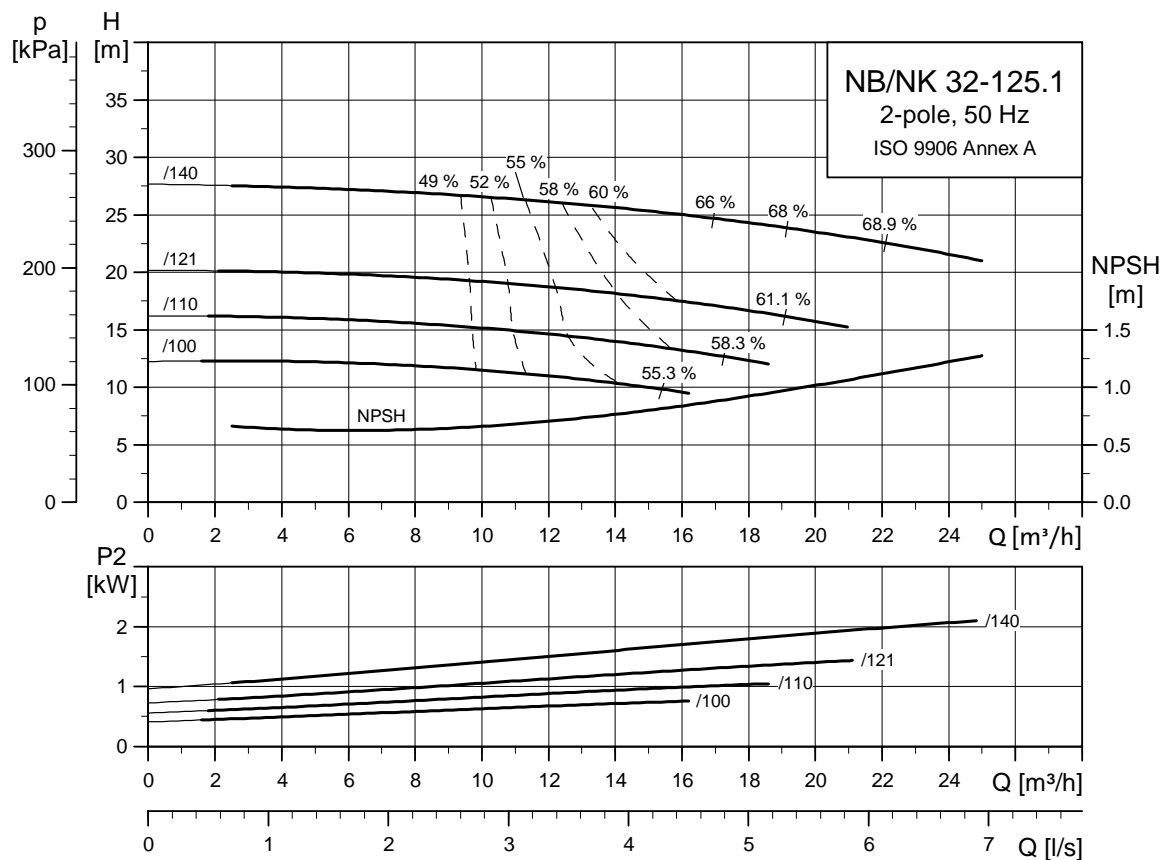
NB, NBE, NK, NKE

| 2 polos | | 4 polos | | 6 polos | |
|-----------------|------------|-----------------|------------|----------------|------------|
| Tipo de bomba | Ver página | Tipo de bomba | Ver página | Tipo de bomba | Ver página |
| NB, NK 32-125.1 | 58 | NB, NK 32-125.1 | 128 | NB, NK 100-160 | 226 |
| NB, NK 32-160.1 | 60 | NB, NK 32-160.1 | 130 | NB, NK 100-200 | 228 |
| NB, NK 32-200.1 | 62 | NB, NK 32-200.1 | 132 | NB, NK 100-250 | 230 |
| NB, NK 32-125 | 64 | NB, NK 32-125 | 134 | NB, NK 100-315 | 232 |
| NB, NK 32-160 | 66 | NB, NK 32-160 | 136 | NB, NK 100-400 | 234 |
| NB, NK 32-200 | 68 | NB, NK 32-200 | 138 | NB, NK 125-200 | 236 |
| NB, NK 32-250 | 70 | NB, NK 32-250 | 140 | NB, NK 125-250 | 238 |
| NB, NK 40-125 | 72 | NB, NK 40-125 | 142 | NB, NK 125-315 | 240 |
| NB, NK 40-160 | 74 | NB, NK 40-160 | 144 | NB, NK 125-400 | 242 |
| NB, NK 40-200 | 76 | NB, NK 40-200 | 146 | NB, NK 125-500 | 244 |
| NB, NK 40-250 | 78 | NB, NK 40-250 | 148 | NB, NK 150-200 | 246 |
| NB, NK 40-315 | 80 | NB, NK 40-315 | 150 | NB, NK 150-250 | 248 |
| NB, NK 50-125 | 82 | NB, NK 50-125 | 152 | NB, NK 150-315 | 250 |
| NB, NK 50-160 | 84 | NB, NK 50-160 | 154 | NB, NK 150-400 | 252 |
| NB, NK 50-200 | 86 | NB, NK 50-200 | 156 | NB, NK 150-500 | 254 |
| NB, NK 50-250 | 88 | NB, NK 50-250 | 158 | NK 200-400 | 256 |
| NB, NK 50-315 | 90 | NB, NK 50-315 | 160 | NK 200-500 | 258 |
| NB, NK 65-125 | 92 | NB, NK 65-125 | 162 | NK 250-310 | 260 |
| NB, NK 65-160 | 94 | NB, NK 65-160 | 164 | NK 250-330 | 262 |
| NB, NK 65-200 | 96 | NB, NK 65-200 | 166 | NK 250-400 | 264 |
| NB, NK 65-250 | 98 | NB, NK 65-250 | 168 | NK 250-500 | 266 |
| NB, NK 65-315 | 100 | NB, NK 65-315 | 170 | NK 300-360 | 268 |
| NB, NK 80-160 | 102 | NB, NK 80-160 | 172 | | |
| NB, NK 80-200 | 104 | NB, NK 80-200 | 174 | | |
| NB, NK 80-250 | 106 | NB, NK 80-250 | 176 | | |
| NB, NK 80-315 | 108 | NB, NK 80-315 | 178 | | |
| NB, NK 100-160 | 110 | NB, NK 80-400 | 180 | | |
| NB, NK 100-200 | 112 | NB, NK 100-160 | 182 | | |
| NB, NK 100-250 | 114 | NB, NK 100-200 | 184 | | |
| NB, NK 100-315 | 116 | NB, NK 100-250 | 186 | | |
| NB, NK 125-200 | 118 | NB, NK 100-315 | 188 | | |
| NB, NK 125-250 | 120 | NB, NK 100-400 | 190 | | |
| NB, NK 125-315 | 122 | NB, NK 125-200 | 192 | | |
| NB, NK 150-200 | 124 | NB, NK 125-250 | 194 | | |
| NB, NK 150-250 | 126 | NB, NK 125-315 | 196 | | |
| | | NB, NK 125-400 | 198 | | |
| | | NB, NK 125-500 | 200 | | |
| | | NB, NK 150-200 | 202 | | |
| | | NB, NK 150-250 | 204 | | |
| | | NB, NK 150-315 | 206 | | |
| | | NB, NK 150-400 | 208 | | |
| | | NB, NK 150-500 | 210 | | |
| | | NK 200-400 | 212 | | |
| | | NK 200-500 | 214 | | |
| | | NK 250-310 | 216 | | |
| | | NK 250-330 | 218 | | |
| | | NK 250-400 | 220 | | |
| | | NK 250-500 | 222 | | |
| | | NK 300-360 | 224 | | |

Datos técnicos/ curvas de rendimiento

NB, NK 32-125.1
2 polos

NB, NK 2 polos



TM03 5081 4106

TM03 4180 4106

TM03 6005 4106

| Tipo de bomba | | 32-125.1/100 | 32-125.1/110 | 32-125.1/121 | 32-125.1/140 | |
|----------------------------------------|------------------------------|--------------|--------------|-------------------|--------------|---------|
| Tipo de motor | Motor de gama alta | MG 80A-C | MG 90SA-D | MG 90SB-D | MG 90LC-D | |
| | Motor eléctrico | - | - | MGE 90SB | MGE 90LC | |
| Datos generales NB/NK | P ₂ | [kW] | 0.75 | 1.1 | 1.5 | 2.2 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 140 | 140 | 140 | 140 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 715/811 | 765/861 | 775/871 | 815/911 |
| | L NKE | [mm] | -/- | -/- | 815/911 | 815/911 |
| | Peso NK | [kg] | 81/81 | 88/88 | 88/88 | 99/98 |
| | Peso NKE | [kg] | -/- | -/- | 96/95 | 107/106 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 800 | 800 | 800 | 900 |
| | l ₂ | [mm] | 130 | 130 | 130 | 150 |
| | l ₃ | [mm] | 540 | 540 | 540 | 600 |
| | b ₁ | [mm] | 270 | 270 | 270 | 300 |
| | b ₂ | [mm] | 360 | 360 | 360 | 390 |
| | b ₃ | [mm] | 320 | 320 | 320 | 345 |
| | d | [mm] | 19 | 19 | 19 | 19 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 65 | 65 | 65 | 65 |
| | h ₃ | [mm] | 177 | 180 ²⁾ | 180 | 180 |
| | h ₄ ¹⁾ | [mm] | 286/- | 290/- | 290/347 | 290/347 |
| Número de bancada | | 2 | 2 | 2 | 3 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 226 | 226 | 226 | 226 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 112 | 112 | 112 | 112 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 117 | 117 | 117 | 117 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 190 | 190 | 190 | 190 |
| | n ₂ | [mm] | 140 | 140 | 140 | 140 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 231/- | 281/- | 281/321 | 321/321 |
| | AD ¹⁾ | [mm] | 109/- | 110/- | 110/167 | 110/167 |
| | AG ¹⁾ | [mm] | 82/- | 162/- | 162/264 | 162/264 |
| | LL ¹⁾ | [mm] | 82/- | 103/- | 103/260 | 103/260 |
| | P | [mm] | 200 | 200 | 200 | 200 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 36/- | 42/- | 43/51 | 47/55 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

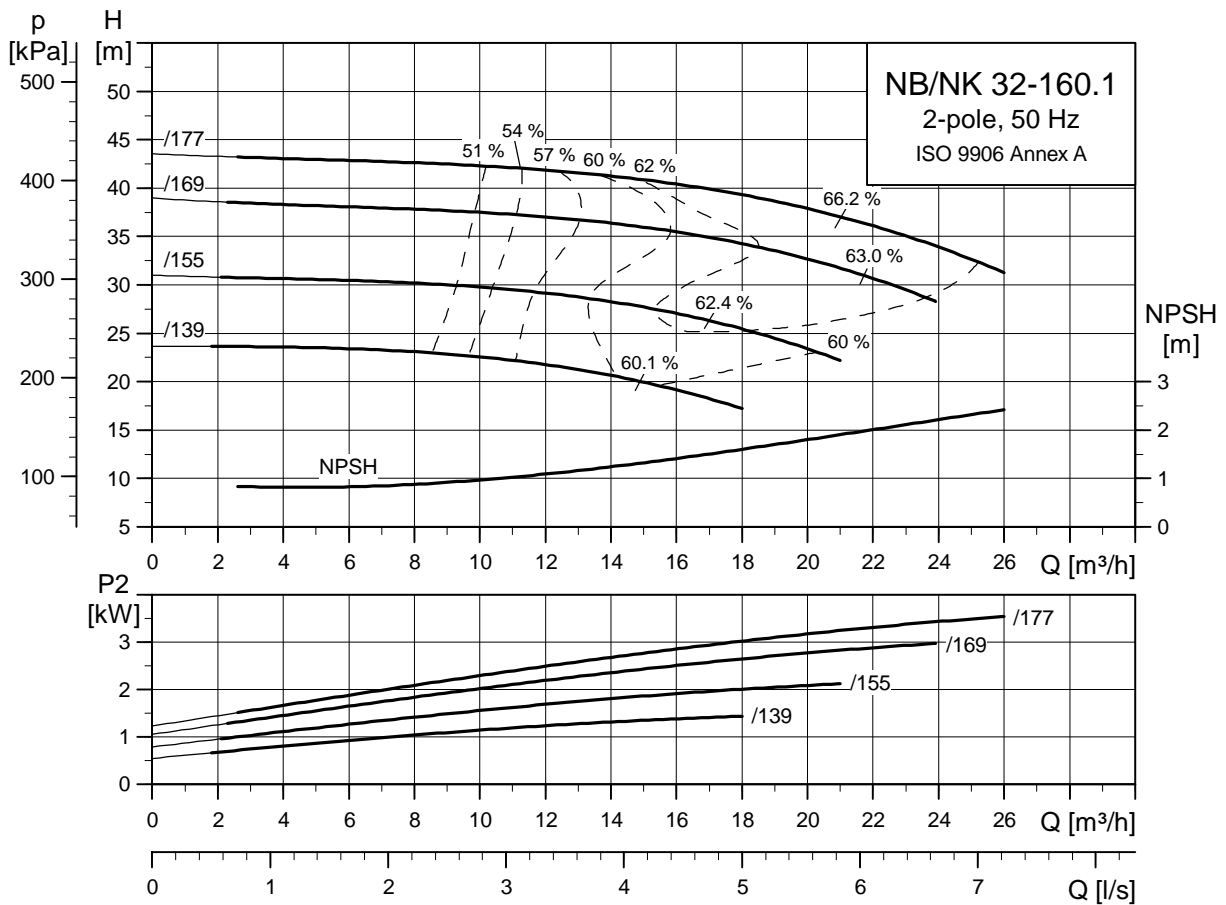
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) NK 32-125.1/110 viene con un motor EFF2. La dimensión H3 es de 177 mm.

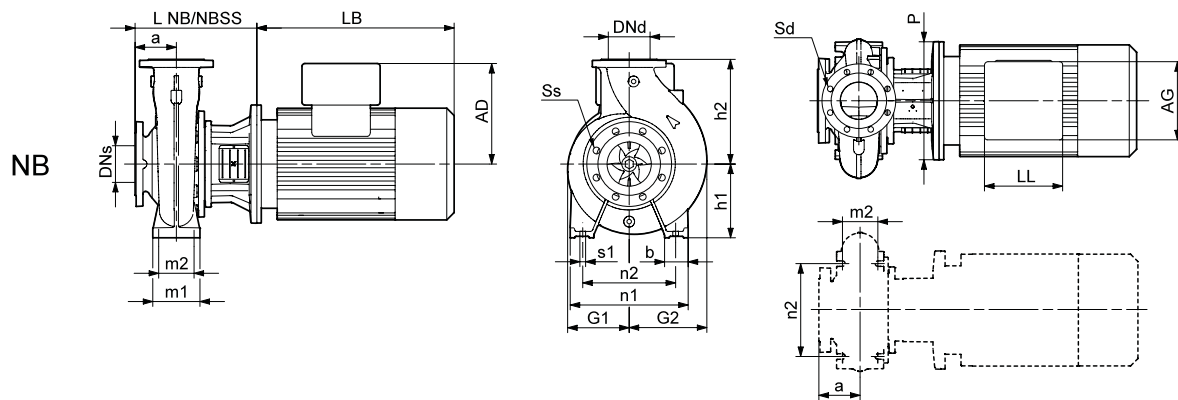
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

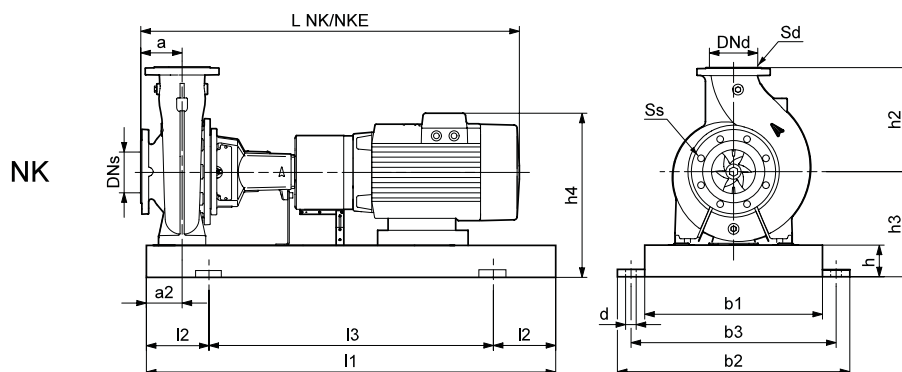
NB, NK 32-160.1
2 polos



TM03 5082 4106



TM03 4180 4106



TM03 6005 4106

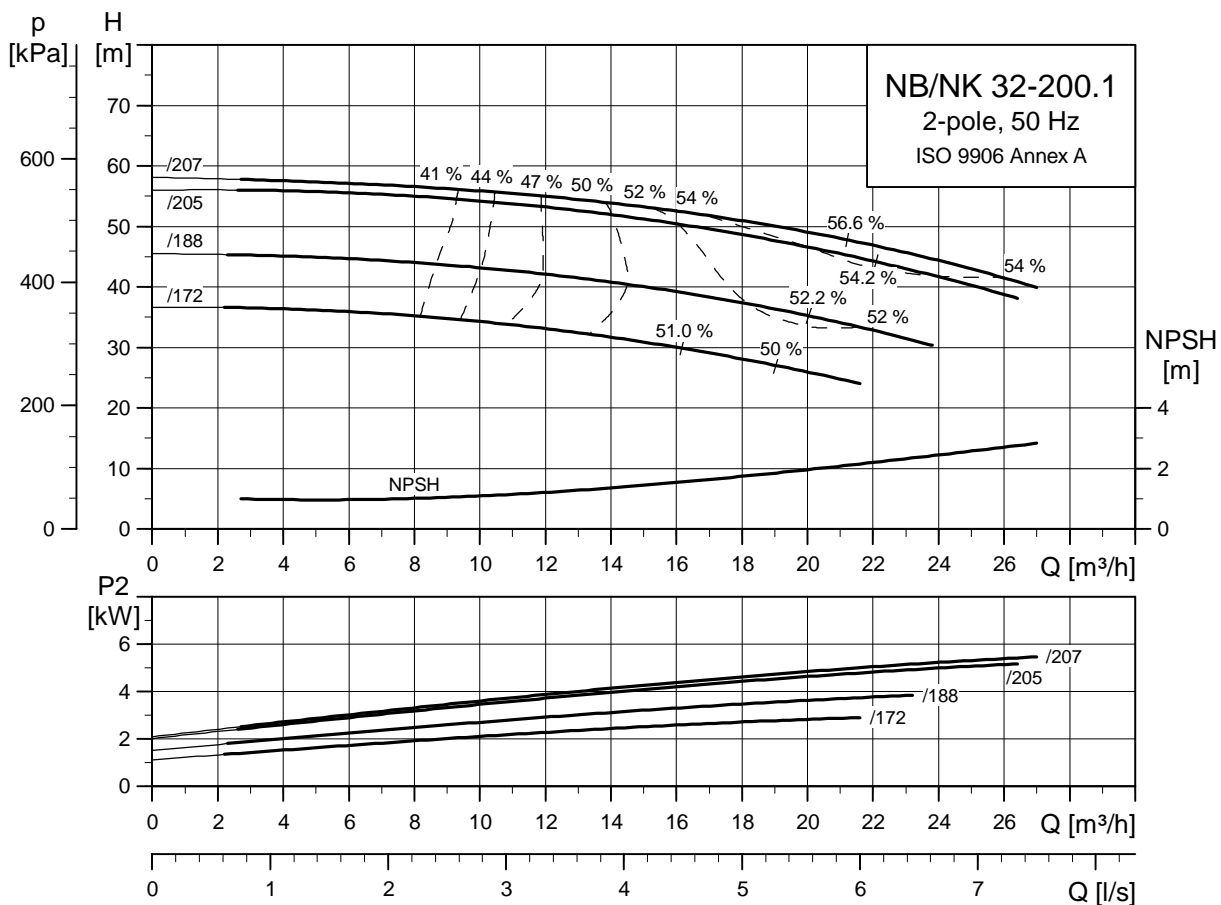
| Tipo de bomba | | 32-160.1/139 | 32-160.1/155 | 32-160.1/169 | 32-160.1/177 | |
|----------------------------------------|--------------------|--------------|--------------|--------------|--------------|---------|
| Tipo de motor | Motor de gama alta | MG 90SB-D | MG 90LC-D | MG 100LC-D | MG 112MC-D | |
| | Motor eléctrico | MGE 90SB | MGE 90LC | MGE 100LC | MGE 112MC | |
| Datos generales NB/NK | P ₂ | [kW] | 1.5 | 2.2 | 3 | 4 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 160 | 160 | 160 | 160 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 775/871 | 815/911 | 839/935 | 876/972 |
| | L NKE | [mm] | 815/911 | 815/911 | 839/935 | 876/972 |
| | Peso NK | [kg] | 111/111 | 115/115 | 122/120 | 138/136 |
| | Peso NKE | [kg] | 119/118 | 123/122 | 130/128 | 138/136 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 212 | 212 | 212 | 212 |
| h ₄ ¹⁾ | [mm] | 322/379 | 322/379 | 332/389 | 346/400 | |
| Número de bancada | | 4 | 4 | 4 | 4 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 226 | 226 | 254 | 254 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 132 | 132 | 132 | 132 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 123 | 123 | 123 | 123 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 281/321 | 321/321 | 335/335 | 372/372 |
| | AD ¹⁾ | [mm] | 110/167 | 110/167 | 120/177 | 134/188 |
| | AG ¹⁾ | [mm] | 162/264 | 162/264 | 162/264 | 202/290 |
| | LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/260 | 103/300 |
| | P | [mm] | 200 | 200 | 250 | 250 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 45/52 | 49/56 | 55/62 | 73/73 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

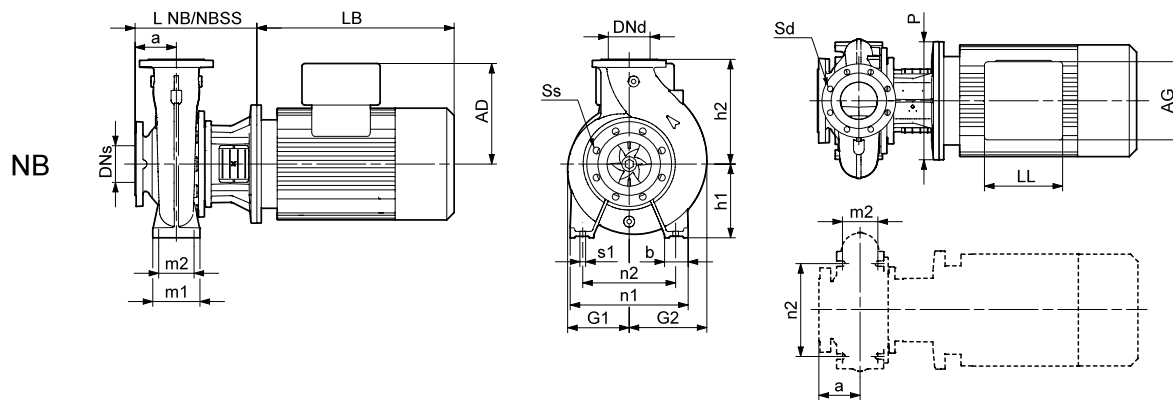
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

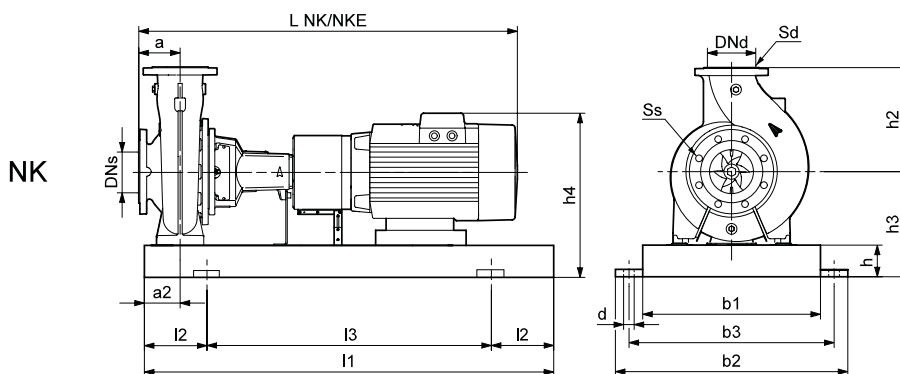
NB, NK 32-200.1
2 polos



TM03 5083 4106



TM03 4180 4106



TM03 6005 4106

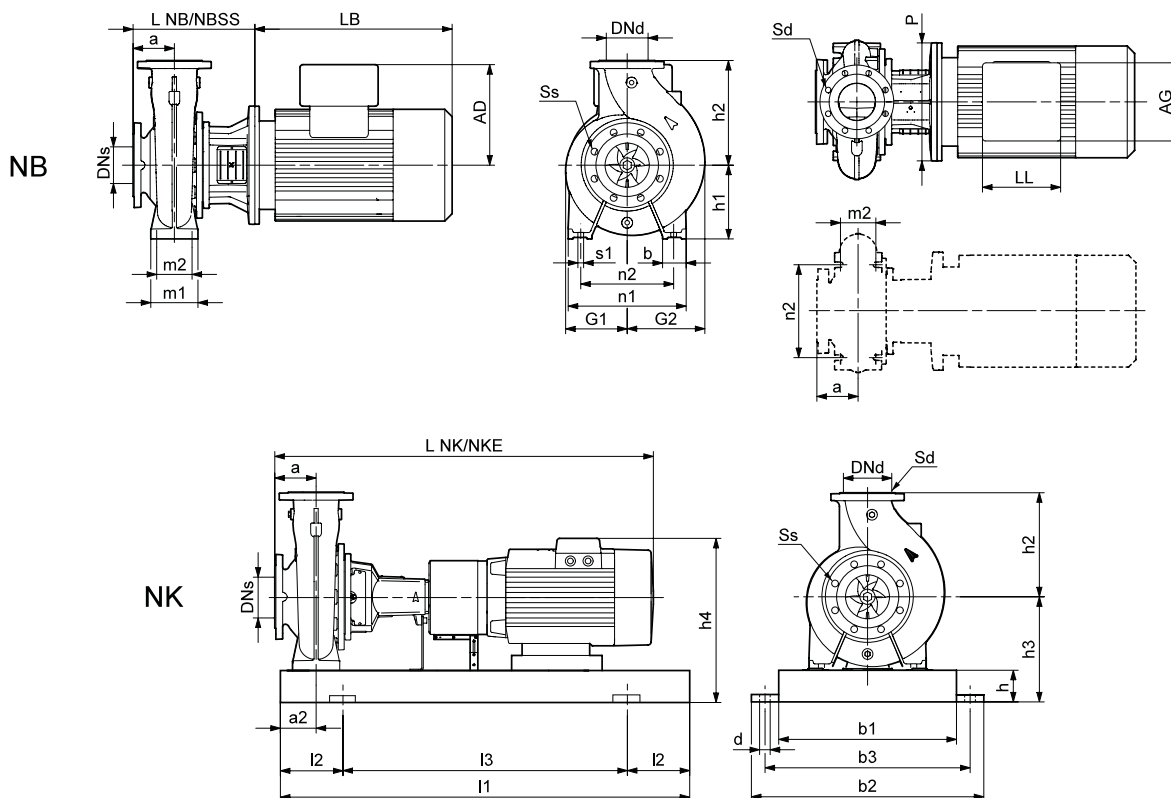
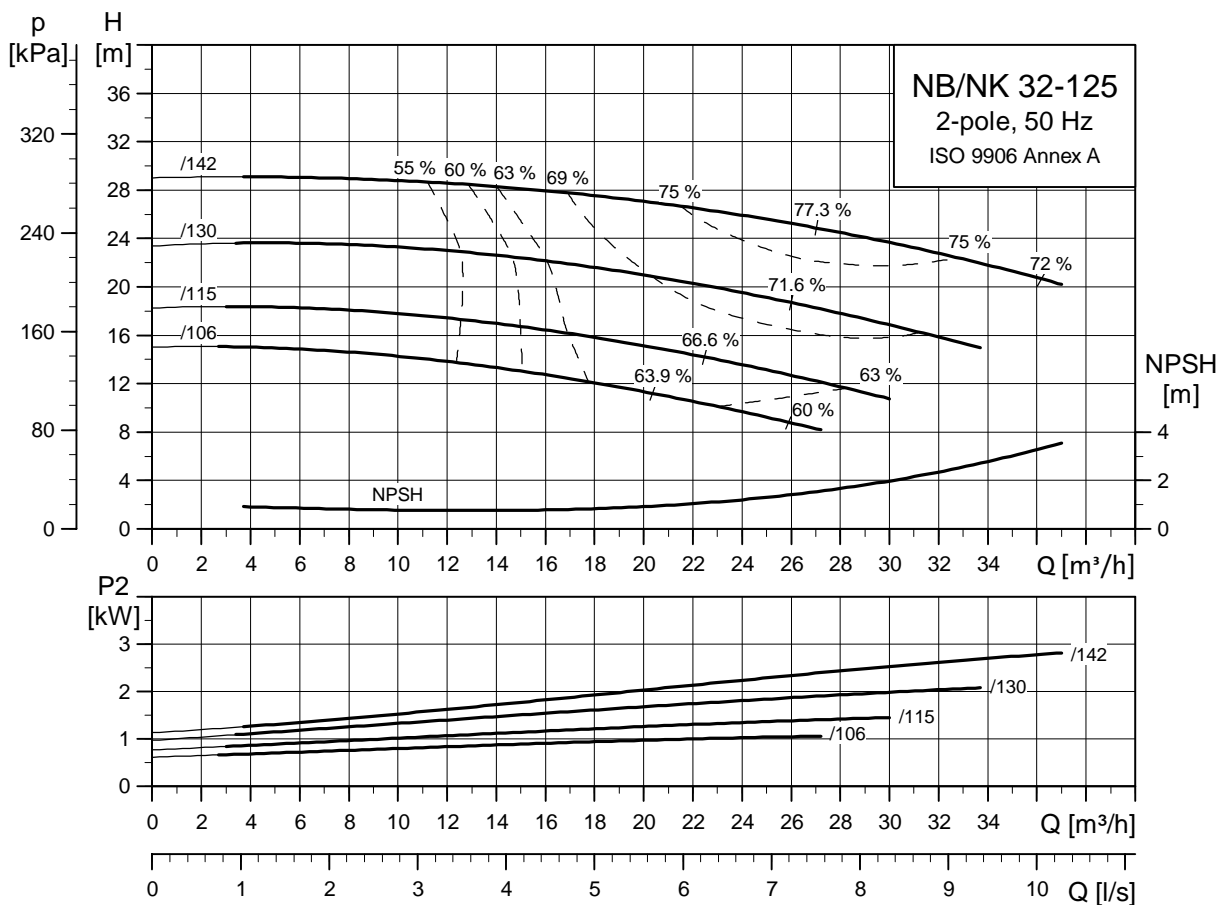
| Tipo de bomba | | 32-200.1/172 | 32-200.1/188 | 32-200.1/205 | 32-200.1/207 | |
|----------------------------------------|------------------------------|--------------|--------------|--------------|--------------|----------|
| Tipo de motor | Motor de gama alta | MG 100LC-D | MG 112MC-D | MG 132SC-D | MG 132SD-D | |
| | Motor eléctrico | MGE 100LC | MGE 112MC | MGE 132SC | MGE 132SD | |
| Datos generales NB/NK | P ₂ | [kW] | 3 | 4 | 5.5 | 7.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 180 | 180 | 180 | 180 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 839/935 | 876/972 | 921/1011 | 921/1011 |
| | L NKE | [mm] | 839/935 | 876/972 | 921/1011 | 921/1011 |
| | Peso NK | [kg] | 128/126 | 154/152 | 162/158 | 162/158 |
| | Peso NKE | [kg] | 136/134 | 154/152 | 168/165 | 171/168 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1120 | 1120 |
| | l ₂ | [mm] | 170 | 170 | 190 | 190 |
| | l ₃ | [mm] | 660 | 660 | 740 | 740 |
| | b ₁ | [mm] | 340 | 340 | 380 | 380 |
| | b ₂ | [mm] | 450 | 450 | 490 | 490 |
| | b ₃ | [mm] | 400 | 400 | 440 | 440 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 240 | 240 |
| | h ₄ ¹⁾ | [mm] | 360/417 | 374/428 | 374/428 | 374/428 |
| Número de bancada | | 4 | 4 | 5 | 5 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 254 | 254 | 293 | 293 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 160 | 160 | 160 | 160 |
| | G ₁ | [mm] | 135 | 135 | 135 | 135 |
| | G ₂ | [mm] | 137 | 137 | 137 | 137 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 335/335 | 372/372 | 391/391 | 391/391 |
| | AD ¹⁾ | [mm] | 120/177 | 134/188 | 134/188 | 134/188 |
| | AG ¹⁾ | [mm] | 162/264 | 202/290 | 202/290 | 202/290 |
| | LL ¹⁾ | [mm] | 103/260 | 103/300 | 103/300 | 103/300 |
| | P | [mm] | 250 | 250 | 300 | 300 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 62/69 | 80/80 | 85/92 | 85/95 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 32-125
2 polos



TM03 5084 4106

TM03 4180 4106

TM03 6005 4106

| Tipo de bomba | | 32-125/106 | 32-125/115 | 32-125/130 | 32-125/142 | |
|----------------------------------------|--------------------|------------|-------------------|------------|------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 90SA-D | MG 90SB-D | MG 90LC-D | MG 100LC-D | |
| | Motor eléctrico | - | MGE 90SB | MGE 90LC | MGE 100LC | |
| Datos generales NB/NK | P ₂ | [kW] | 1.1 | 1.5 | 2.2 | 3 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 140 | 140 | 140 | 140 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 765/861 | 775/871 | 815/911 | 839/935 |
| | L NKE | [mm] | -/- | 815/911 | 815/911 | 839/935 |
| | Peso NK | [kg] | 89/88 | 89/88 | 100/99 | 103/101 |
| | Peso NKE | [kg] | -/- | 96/96 | 107/107 | 111/109 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 800 | 800 | 900 | 900 |
| | l ₂ | [mm] | 130 | 130 | 150 | 150 |
| | l ₃ | [mm] | 540 | 540 | 600 | 600 |
| | b ₁ | [mm] | 270 | 270 | 300 | 300 |
| | b ₂ | [mm] | 360 | 360 | 390 | 390 |
| | b ₃ | [mm] | 320 | 320 | 345 | 345 |
| | d | [mm] | 19 | 19 | 19 | 19 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 65 | 65 | 65 | 65 |
| | h ₃ | [mm] | 180 ³⁾ | 180 | 180 | 177 |
| h ₄ ¹⁾ | [mm] | 290/- | 290/347 | 290/347 | 297/354 | |
| Número de bancada | | 2 | 2 | 3 | 3 | |
| Datos NB | Diseño | | A | A | A | A ²⁾ |
| | L NB | [mm] | 226 | 226 | 226 | 254 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 112 | 112 | 112 | 112 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 117 | 117 | 117 | 117 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 190 | 190 | 190 | 190 |
| | n ₂ | [mm] | 140 | 140 | 140 | 140 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 281/- | 281/321 | 321/321 | 335/335 |
| | AD ¹⁾ | [mm] | 110/- | 110/167 | 110/167 | 120/177 |
| | AG ¹⁾ | [mm] | 162/- | 162/264 | 162/264 | 162/264 |
| | LL ¹⁾ | [mm] | 103/- | 103/260 | 103/260 | 103/260 |
| | P | [mm] | 200 | 200 | 200 | 250 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 43/- | 44/51 | 48/55 | 54/62 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

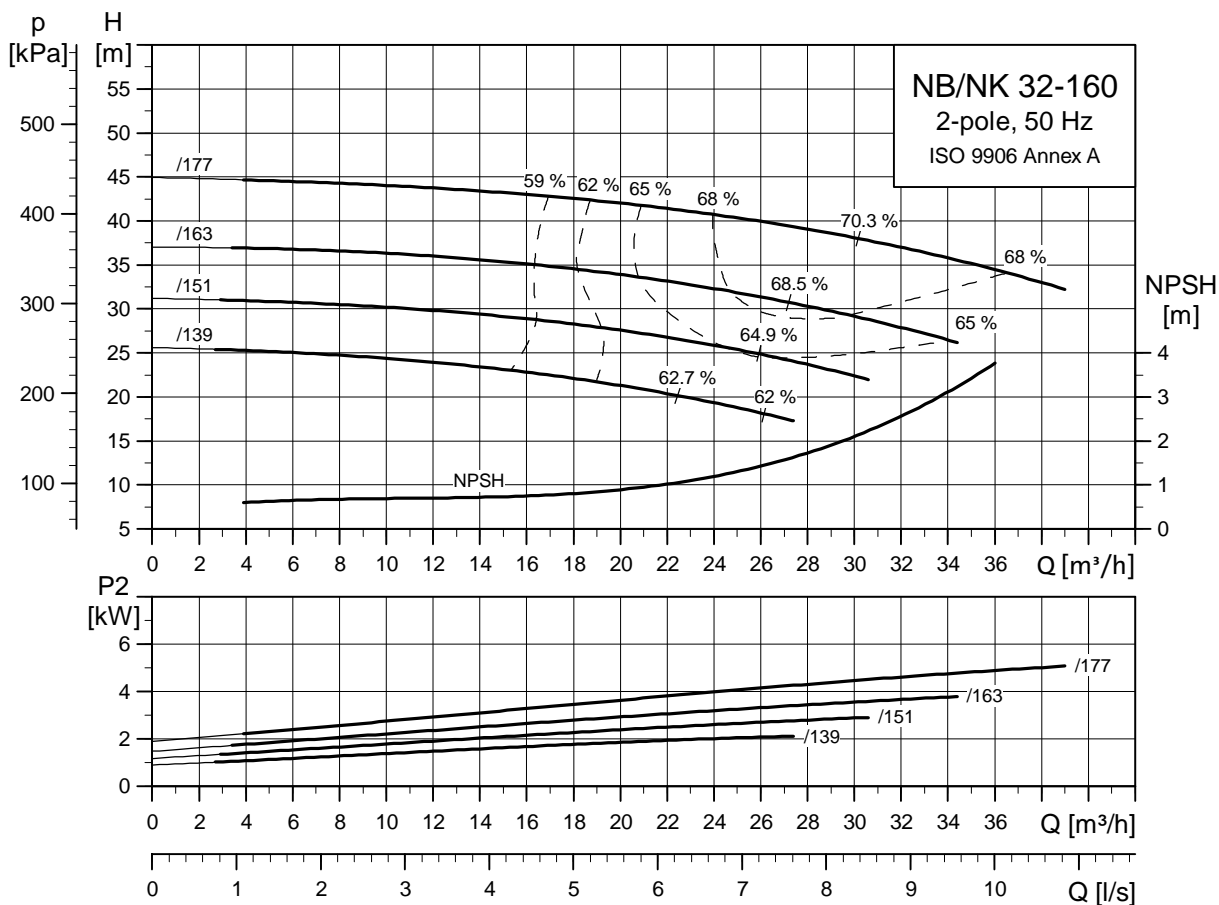
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NK 32-125/106 viene con un motor EFF2. La dimensión H3 es de 177 mm.

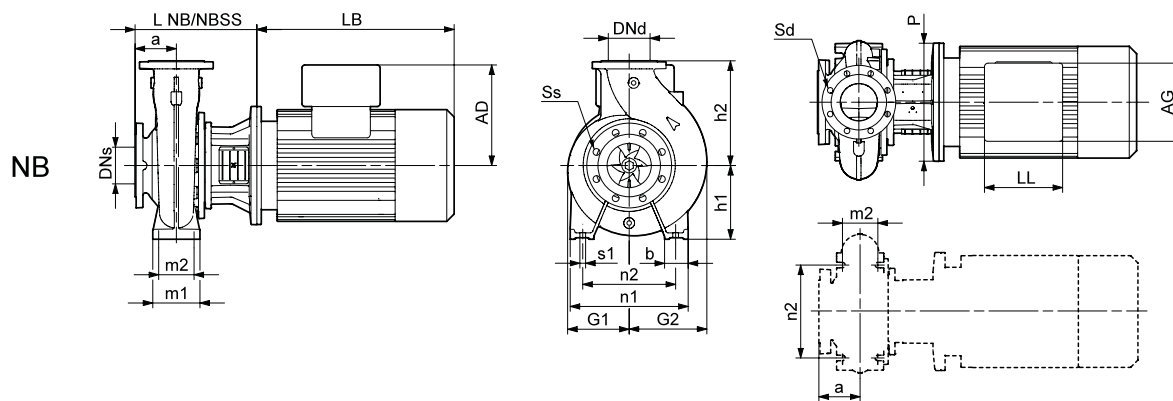
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

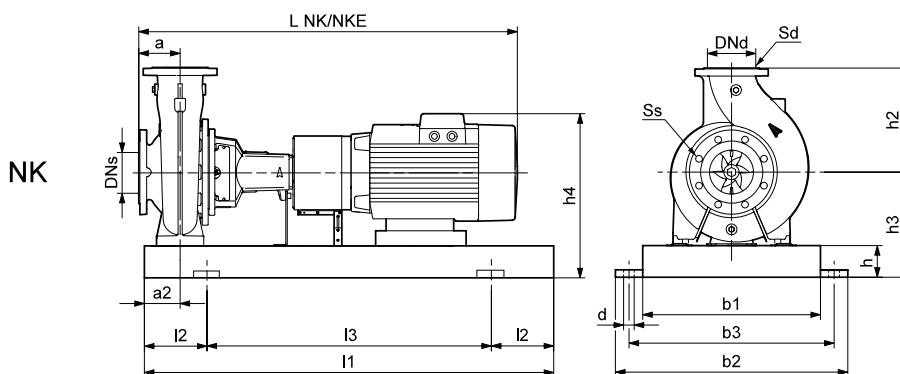
NB, NK 32-160
2 polos



TM03 5085 4106



TM03 4180 4106



TM03 6005 4106

| Tipo de bomba | | 32-160/139 | 32-160/151 | 32-160/163 | 32-160/177 | |
|----------------------------------------|------------------------------|------------|------------|------------|------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 90LC-D | MG 100LC-D | MG 112MC-D | MG 132SC-D | |
| | Motor eléctrico | MGE 90LC | MGE 100LC | MGE 112MC | MGE 132SC | |
| Datos generales NB/NK | P ₂ | [kW] | 2.2 | 3 | 4 | 5.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 160 | 160 | 160 | 160 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 815/911 | 839/935 | 876/972 | 921/1011 |
| | L NKE | [mm] | 815/911 | 839/935 | 876/972 | 921/1011 |
| | Peso NK | [kg] | 116/115 | 123/121 | 139/137 | 148/145 |
| | Peso NKE | [kg] | 124/123 | 131/129 | 139/137 | 155/152 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1000 | 1120 |
| | l ₂ | [mm] | 170 | 170 | 170 | 190 |
| | l ₃ | [mm] | 660 | 660 | 660 | 740 |
| | b ₁ | [mm] | 340 | 340 | 340 | 380 |
| | b ₂ | [mm] | 450 | 450 | 450 | 490 |
| | b ₃ | [mm] | 400 | 400 | 400 | 440 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 212 | 212 | 212 | 215 |
| | h ₄ ¹⁾ | [mm] | 322/379 | 332/389 | 346/400 | 349/403 |
| Número de bancada | | 4 | 4 | 4 | 5 | |
| Datos NB | Diseño | | A | A | A | A ²⁾ |
| | L NB | [mm] | 226 | 254 | 254 | 293 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 132 | 132 | 132 | 132 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 125 | 125 | 125 | 125 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 321/321 | 335/335 | 372/372 | 391/391 |
| | AD ¹⁾ | [mm] | 110/167 | 120/177 | 134/188 | 134/188 |
| | AG ¹⁾ | [mm] | 162/264 | 162/264 | 202/290 | 202/290 |
| | LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/300 | 103/300 |
| | P | [mm] | 200 | 250 | 250 | 300 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 50/57 | 56/63 | 74/74 | 79/86 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

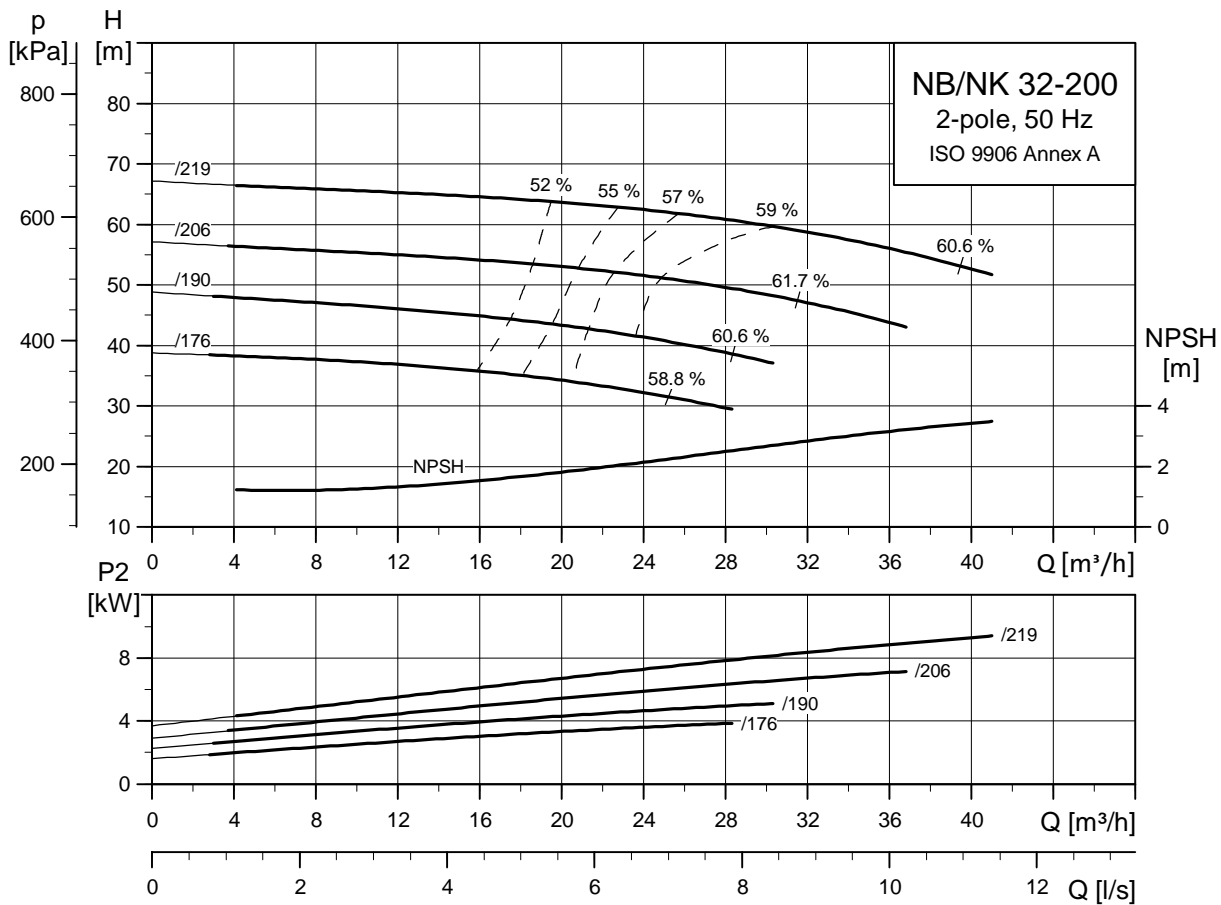
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

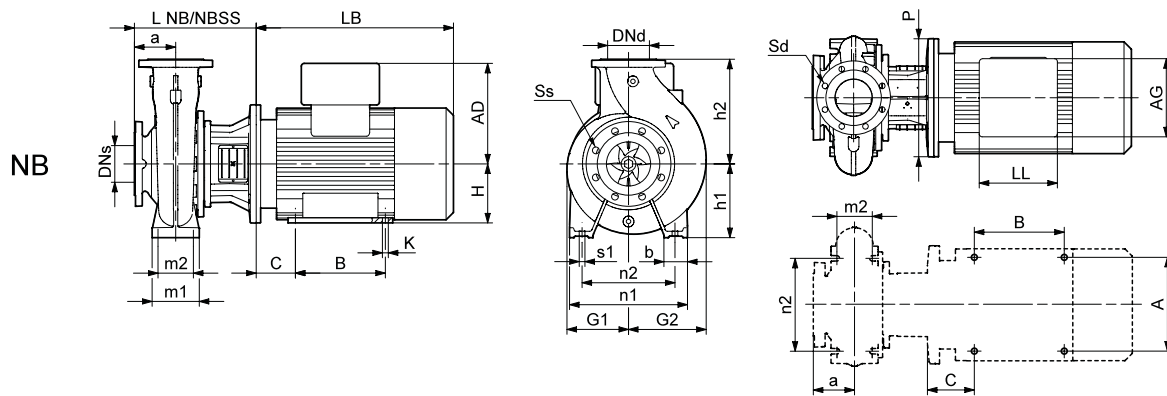
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

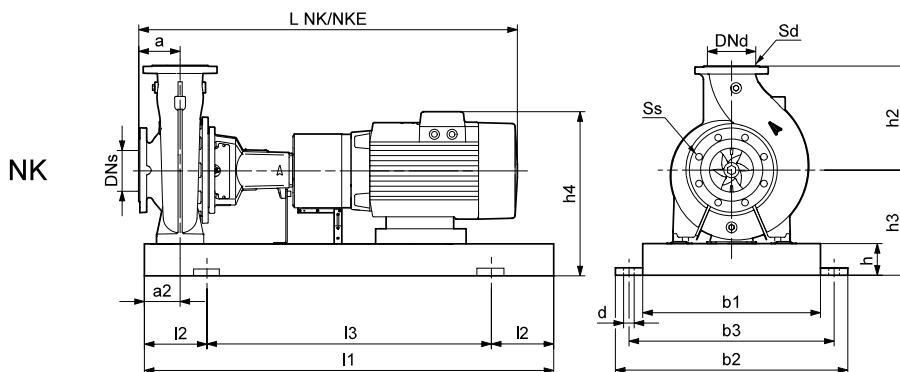
NB, NK 32-200
2 polos



TM03 5086 4106



TM03 4182 4106



TM03 6005 4106

| Tipo de bomba | | 32-200/176 | 32-200/190 | 32-200/206 | 32-200/219 | |
|-----------------------------------------|------------------------------|------------|------------|------------|--------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 112MC-D | MG 132SC-D | MG 132SD-D | Siemens 160M | |
| | Motor eléctrico | MGE 112MC | MGE 132SC | MGE 132SD | MMGE 160M | |
| Datos generales NB/NK | P ₂ | [kW] | 4 | 5.5 | 7.5 | 11 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 180 | 180 | 180 | 180 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/ espaciador | L NK | [mm] | 876/972 | 921/1011 | 921/1011 | 1045/1128 |
| | L NKE | [mm] | 876/972 | 921/1011 | 921/1011 | 1016/1099 |
| | Peso NK | [kg] | 154/152 | 162/159 | 162/159 | 207/201 |
| | Peso NKE | [kg] | 155/152 | 169/165 | 172/168 | 255/249 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1000 | 1120 | 1120 | 1250 |
| | l ₂ | [mm] | 170 | 190 | 190 | 205 |
| | l ₃ | [mm] | 660 | 740 | 740 | 840 |
| | b ₁ | [mm] | 340 | 380 | 380 | 430 |
| | b ₂ | [mm] | 450 | 490 | 490 | 540 |
| | b ₃ | [mm] | 400 | 440 | 440 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 240 | 245 |
| | h ₄ ¹⁾ | [mm] | 374/428 | 374/428 | 374/428 | 442/604 |
| Número de bancada | | 4 | 5 | 5 | 6 | |
| Datos NB | Diseño | | A | A | A | C ²⁾ |
| | L NB | [mm] | 254 | 293 | 293 | 323 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 160 | 160 | 160 | 160 |
| | G ₁ | [mm] | 124 | 124 | 124 | 124 |
| | G ₂ | [mm] | 145 | 145 | 145 | 145 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | 160 |
| | LB ¹⁾ | [mm] | 372/372 | 391/391 | 391/391 | 478/449 |
| | AD ¹⁾ | [mm] | 134/188 | 134/188 | 134/188 | 197/359 |
| | AG ¹⁾ | [mm] | 202/290 | 202/290 | 202/290 | 165/296 |
| | LL ¹⁾ | [mm] | 103/300 | 103/300 | 103/300 | 165/410 |
| | P | [mm] | 250 | 300 | 300 | 350 |
| | C | [mm] | - | - | - | 108 |
| | B | [mm] | - | - | - | 210 |
| A | [mm] | - | - | - | 254 | |
| K | [mm] | - | - | - | 15 | |
| Peso NB ¹⁾ | [kg] | 80/80 | 85/92 | 85/95 | 123/171 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

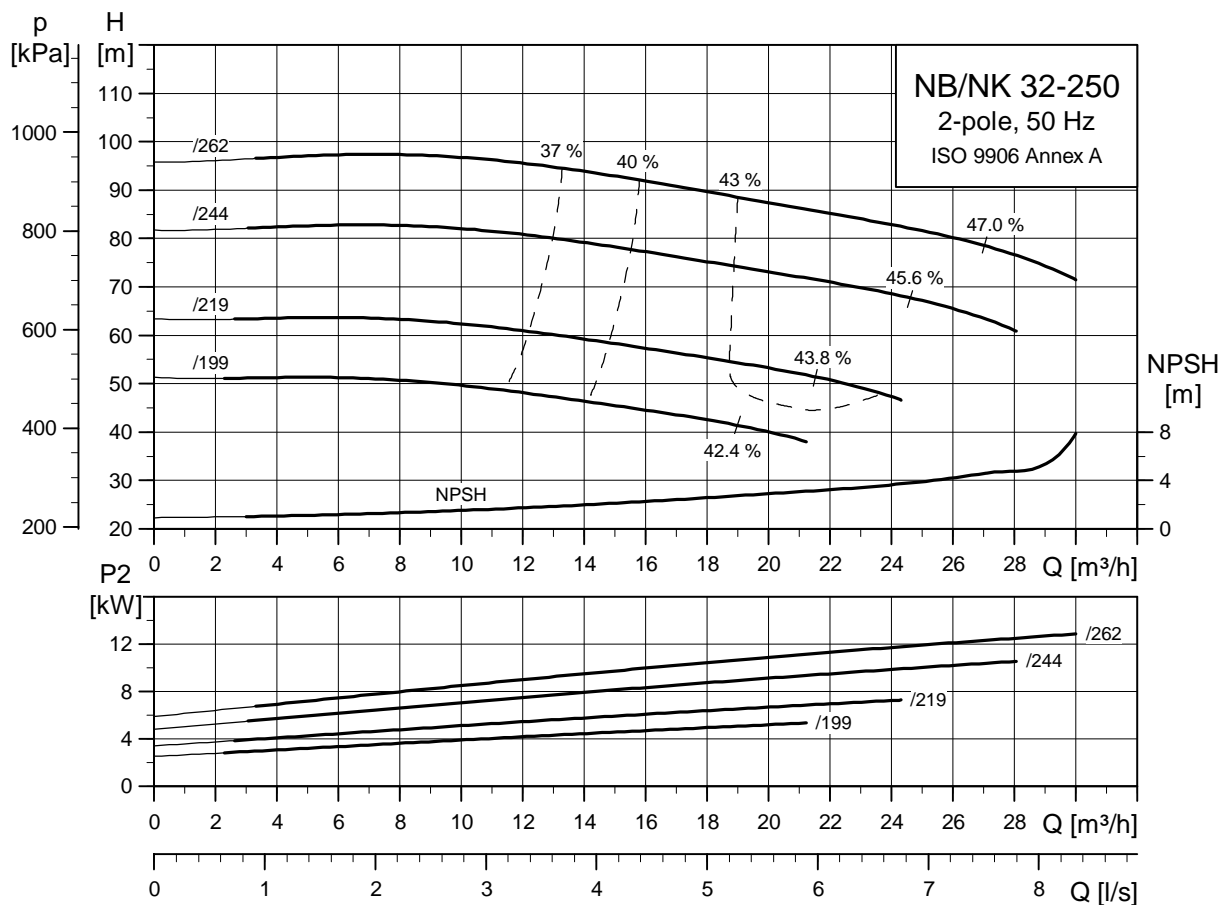
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

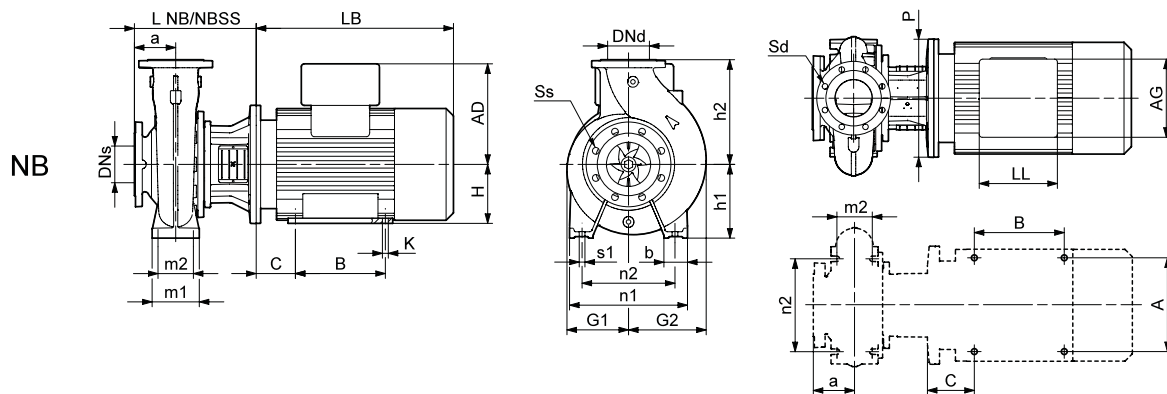
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

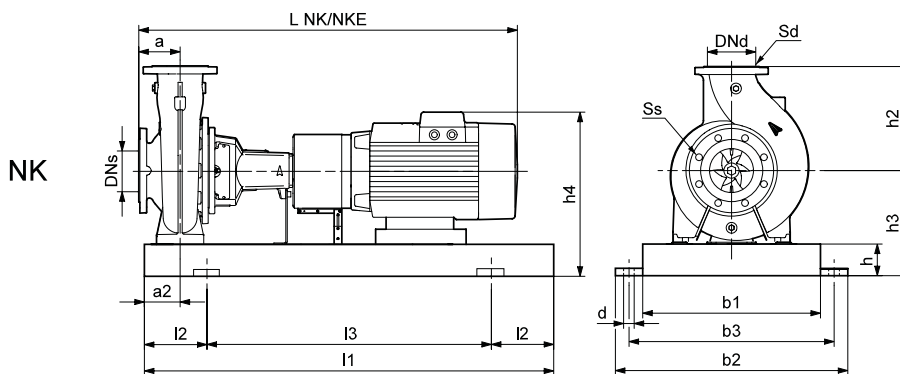
NB, NK 32-250
2 polos



TM03 5087 4106



TM03 4182 4106



TM03 6005 4106

| Tipo de bomba | | 32-250/199 | 32-250/219 | 32-250/244 | 32-250/262 | |
|----------------------------------------|------------------------------|------------|------------|--------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 132SC-D | MG 132SD-D | Siemens 160M | Siemens 160M | |
| | Motor eléctrico | MGE 132SC | MGE 132SD | MMGE 160M | MMGE 160MX | |
| Datos generales NB/NK | P ₂ | [kW] | 5.5 | 7.5 | 11 | 15 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 225 | 225 | 225 | 225 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| | L NK | [mm] | 941/1031 | 941/1031 | 1065/1148 | 1065/1148 |
| | L NKE | [mm] | 941/1031 | 941/1031 | 1036/1119 | 1048/1131 |
| | Peso NK | [kg] | 176/173 | 176/173 | 221/215 | 230/224 |
| | Peso NKE | [kg] | 183/180 | 186/183 | 269/263 | 298/292 |
| | Peso NK SS | [kg] | 180/177 | 180/177 | 225/219 | 234/228 |
| Datos NK | Peso NKE SS | [kg] | 187/184 | 190/187 | 273/267 | 302/296 |
| | l ₁ | [mm] | 1120 | 1120 | 1250 | 1250 |
| | l ₂ | [mm] | 190 | 190 | 205 | 205 |
| | l ₃ | [mm] | 740 | 740 | 840 | 840 |
| | b ₁ | [mm] | 380 | 380 | 430 | 430 |
| | b ₂ | [mm] | 490 | 490 | 540 | 540 |
| | b ₃ | [mm] | 440 | 440 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 260 | 260 | 260 | 260 |
| | h ₄ ¹⁾ | [mm] | 394/448 | 394/448 | 457/619 | 457/637 |
| Datos NB | Número de bancada | | 5 | 5 | 6 | 6 |
| | Diseño | | A | A | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 313 | 313 | 343 | 343 |
| | L NB SS | [mm] | 313 | 313 | 343 | 343 |
| | h ₁ | [mm] | 180 | 180 | 180 | 180 |
| | G ₁ | [mm] | 162 | 162 | 162 | 162 |
| | G ₂ | [mm] | 164 | 164 | 164 | 164 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 320 | 320 | 320 | 320 |
| | n ₂ | [mm] | 250 | 250 | 250 | 250 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | 160 | 160 |
| | LB ¹⁾ | [mm] | 391/391 | 391/391 | 478/449 | 478/461 |
| | AD ¹⁾ | [mm] | 134/188 | 134/188 | 197/359 | 197/377 |
| | AG ¹⁾ | [mm] | 202/290 | 202/290 | 165/296 | 165/296 |
| | LL ¹⁾ | [mm] | 103/300 | 103/300 | 165/410 | 165/410 |
| | P | [mm] | 300 | 300 | 350 | 350 |
| | C | [mm] | - | - | 108 | 108 |
| B | [mm] | - | - | 210 | 210 | |
| A | [mm] | - | - | 254 | 254 | |
| K | [mm] | - | - | 15 | 15 | |
| Peso NB ¹⁾ | [kg] | 97/104 | 97/107 | 135/183 | 144/212 | |
| Peso NB SS ¹⁾ | [kg] | 101/108 | 101/111 | 140/188 | 149/217 | |

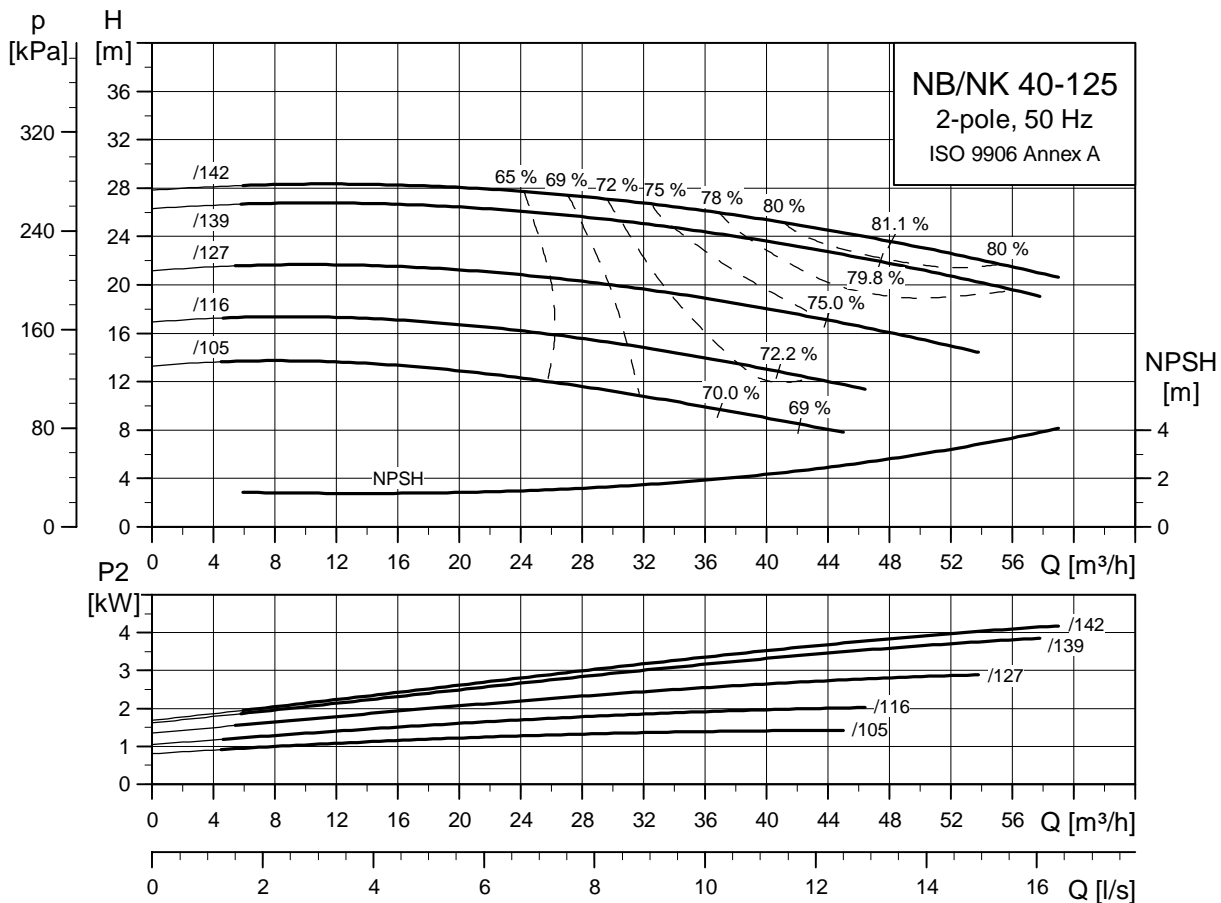
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

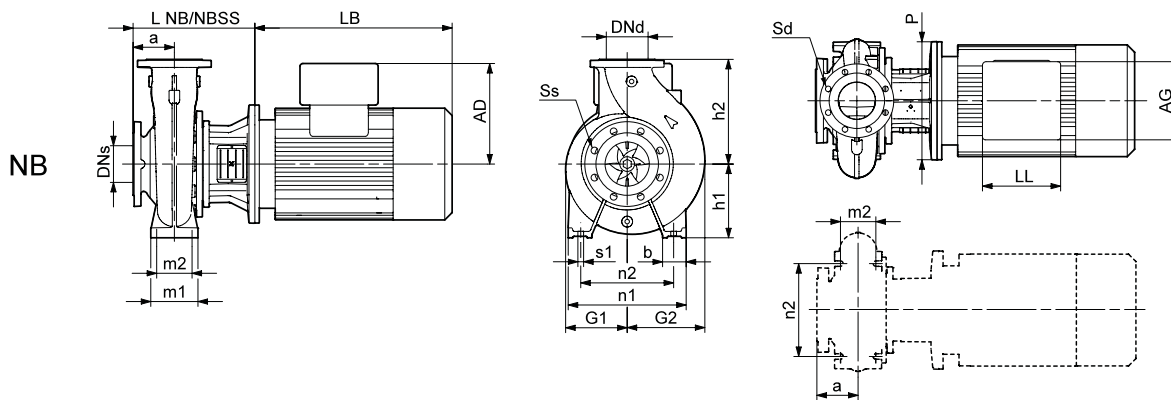
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

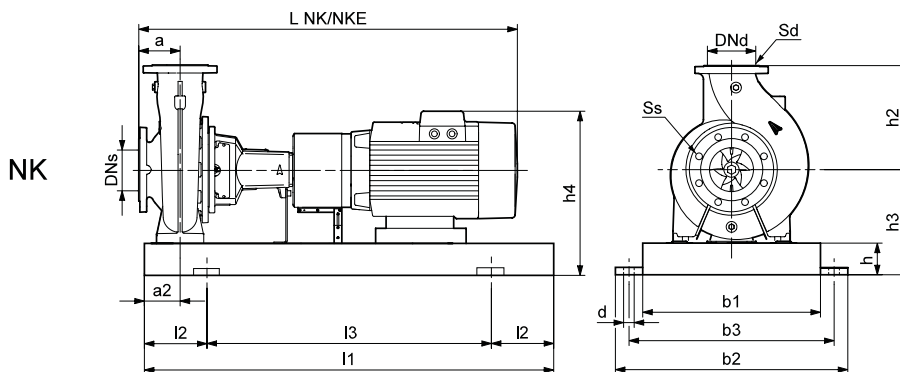
NB, NK 40-125
2 polos



TM03 5088 4106



TM03 4180 4106



TM03 6005 4106

| Tipo de bomba | | 40-125/105 | 40-125/116 | 40-125/127 | 40-125/139 | 40-125/142 | |
|----------------------------------------|------------------------------|------------|------------|------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 90SB-D | MG 90LC-D | MG 100LC-D | MG 112MC-D | MG 132SC-D | |
| | Motor eléctrico | MGE 90SB | MGE 90LC | MGE 100LC | MGE 112MC | MGE 132SC | |
| Datos generales NB/NK | P ₂ | [kW] | 1.5 | 2.2 | 3 | 4 | 5.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 | 40 | 40 |
| | a | [mm] | 80 | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 140 | 140 | 140 | 140 | 140 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 775/871 | 815/911 | 839/935 | 876/972 | 921/1011 |
| | L NKE | [mm] | 815/911 | 815/911 | 839/935 | 876/972 | 921/1011 |
| | Peso NK | [kg] | 98/98 | 102/102 | 106/104 | 136/134 | 153/150 |
| | Peso NKE | [kg] | 106/105 | 110/109 | 114/112 | 136/134 | 160/157 |
| | Peso NK SS | [kg] | 99/98 | 103/102 | 107/105 | 137/135 | 154/151 |
| | Peso NKE SS | [kg] | 107/106 | 111/110 | 115/113 | 137/135 | 161/158 |
| Datos NK | l ₁ | [mm] | 900 | 900 | 900 | 1000 | 1120 |
| | l ₂ | [mm] | 150 | 150 | 150 | 170 | 190 |
| | l ₃ | [mm] | 600 | 600 | 600 | 660 | 740 |
| | b ₁ | [mm] | 300 | 300 | 300 | 340 | 380 |
| | b ₂ | [mm] | 390 | 390 | 390 | 450 | 490 |
| | b ₃ | [mm] | 345 | 345 | 345 | 400 | 440 |
| | d | [mm] | 19 | 19 | 19 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 | 60 |
| | h | [mm] | 65 | 65 | 65 | 80 | 80 |
| | h ₃ | [mm] | 180 | 180 | 177 | 195 | 217 |
| | h ₄ ¹⁾ | [mm] | 290/347 | 290/347 | 297/354 | 329/383 | 351/405 |
| Número de bancada | | 3 | 3 | 3 | 4 | 5 | |
| Datos NB | Diseño | | A | A | A ²⁾ | A ²⁾ | A ²⁾ |
| | L NB | [mm] | 226 | 226 | 254 | 254 | 293 |
| | L NB SS | [mm] | 253 | 253 | 273 | 273 | 293 |
| | h ₁ | [mm] | 112 | 112 | 112 | 112 | 112 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 118 | 118 | 118 | 118 | 118 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 210 | 210 | 210 | 210 | 210 |
| | n ₂ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | b | [mm] | 50 | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - | - |
| | LB ¹⁾ | [mm] | 281/321 | 321/321 | 335/335 | 372/372 | 391/391 |
| | AD ¹⁾ | [mm] | 110/167 | 110/167 | 120/177 | 134/188 | 134/188 |
| | AG ¹⁾ | [mm] | 162/264 | 162/264 | 162/264 | 202/290 | 202/290 |
| | LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/260 | 103/300 | 103/300 |
| | P | [mm] | 200 | 200 | 250 | 250 | 300 |
| | C | [mm] | - | - | - | - | - |
| | B | [mm] | - | - | - | - | - |
| A | [mm] | - | - | - | - | - | |
| K | [mm] | - | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 47/54 | 51/58 | 57/64 | 75/75 | 80/87 | |
| Peso NB SS ¹⁾ | [kg] | 50/57 | 54/61 | 60/68 | 78/79 | 82/89 | |

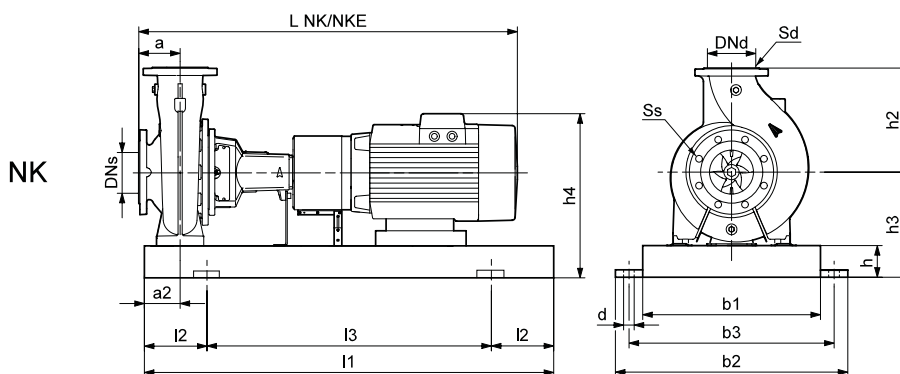
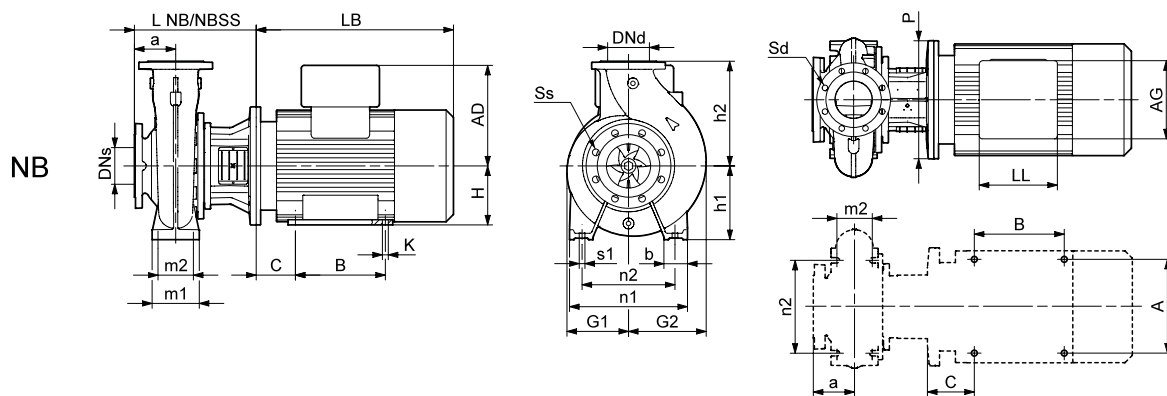
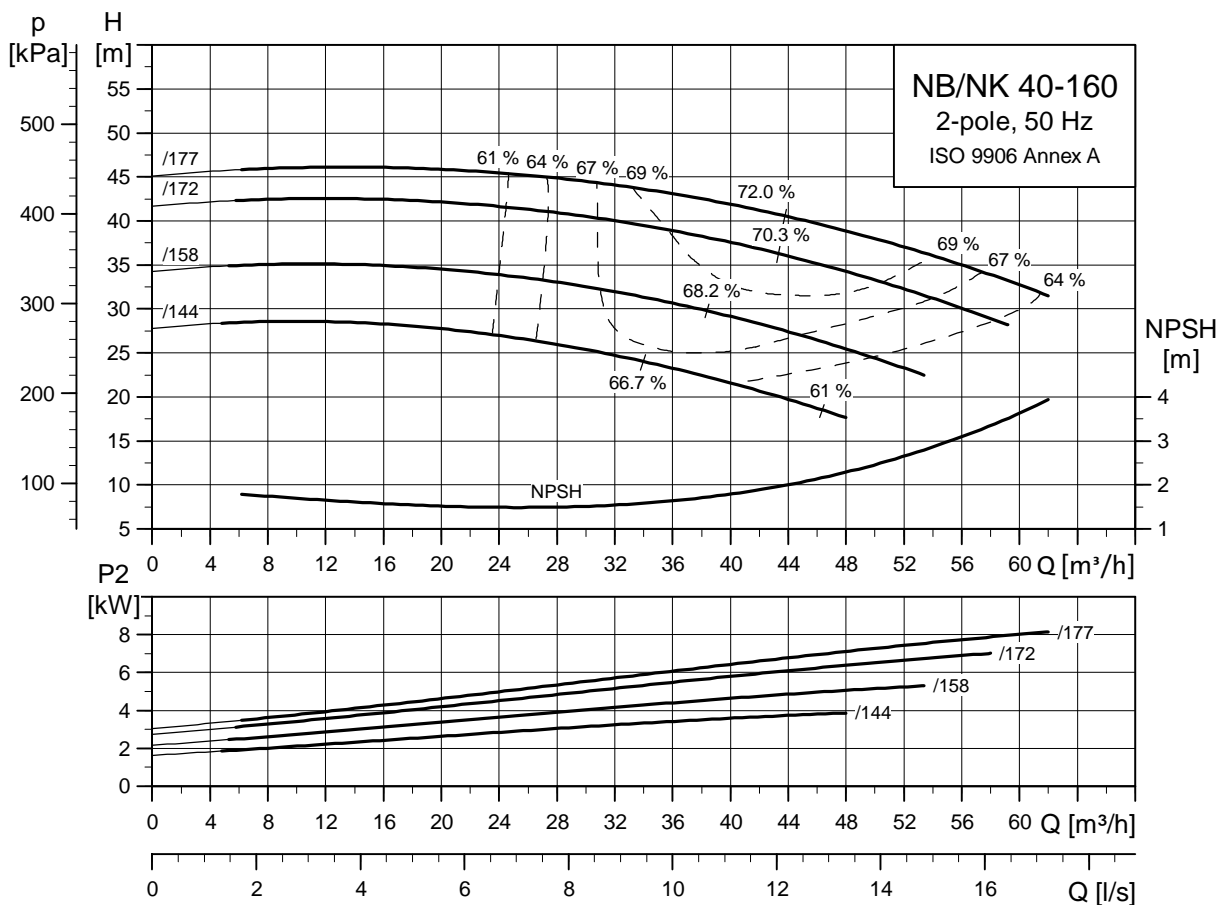
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 40-160
2 polos



TM03 5089 4106

TM03 4182 4106

TM03 6005 4106

| Tipo de bomba | | 40-160/144 | 40-160/158 | 40-160/172 | 40-160/177 | |
|----------------------------------------|--------------------|------------|------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 112MC-D | MG 132SC-D | MG 132SD-D | Siemens 160M | |
| | Motor eléctrico | MGE 112MC | MGE 132SC | MGE 132SD | MMGE 160M | |
| Datos generales NB/NK | P ₂ | [kW] | 4 | 5.5 | 7.5 | 11 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 | 40 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 160 | 160 | 160 | 160 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 876/972 | 921/1011 | 921/1011 | 1045/1128 |
| | L NKE | [mm] | 876/972 | 921/1011 | 921/1011 | 1016/1099 |
| | Peso NK | [kg] | 141/139 | 150/147 | 150/147 | 205/200 |
| | Peso NKE | [kg] | 141/139 | 157/154 | 160/157 | 253/248 |
| | Peso NK SS | [kg] | 142/140 | 152/148 | 152/148 | 207/201 |
| Peso NKE SS | [kg] | 142/140 | 158/155 | 162/158 | 255/249 | |
| Datos NK | l ₁ | [mm] | 1000 | 1120 | 1120 | 1250 |
| | l ₂ | [mm] | 170 | 190 | 190 | 205 |
| | l ₃ | [mm] | 660 | 740 | 740 | 840 |
| | b ₁ | [mm] | 340 | 380 | 380 | 430 |
| | b ₂ | [mm] | 450 | 490 | 490 | 540 |
| | b ₃ | [mm] | 400 | 440 | 440 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 212 | 215 | 215 | 245 |
| h ₄ ¹⁾ | [mm] | 346/400 | 349/403 | 349/403 | 442/604 | |
| Número de bancada | | 4 | 5 | 5 | 6 | |
| Datos NB | Diseño | | A | A ²⁾ | A ²⁾ | C ²⁾ |
| | L NB | [mm] | 254 | 293 | 293 | 323 |
| | L NB SS | [mm] | 273 | 293 | 293 | 323 |
| | h ₁ | [mm] | 132 | 132 | 132 | 132 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 133 | 133 | 133 | 133 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | 160 |
| | LB ¹⁾ | [mm] | 372/372 | 391/391 | 391/391 | 478/449 |
| | AD ¹⁾ | [mm] | 134/188 | 134/188 | 134/188 | 197/359 |
| | AG ¹⁾ | [mm] | 202/290 | 202/290 | 202/290 | 165/296 |
| | LL ¹⁾ | [mm] | 103/300 | 103/300 | 103/300 | 165/410 |
| | P | [mm] | 250 | 300 | 300 | 350 |
| | C | [mm] | - | - | - | 108 |
| | B | [mm] | - | - | - | 210 |
| A | [mm] | - | - | - | 254 | |
| K | [mm] | - | - | - | 15 | |
| Peso NB ¹⁾ | [kg] | 76/76 | 81/88 | 81/91 | 119/167 | |
| Peso NB SS ¹⁾ | [kg] | 80/80 | 84/90 | 84/93 | 122/170 | |

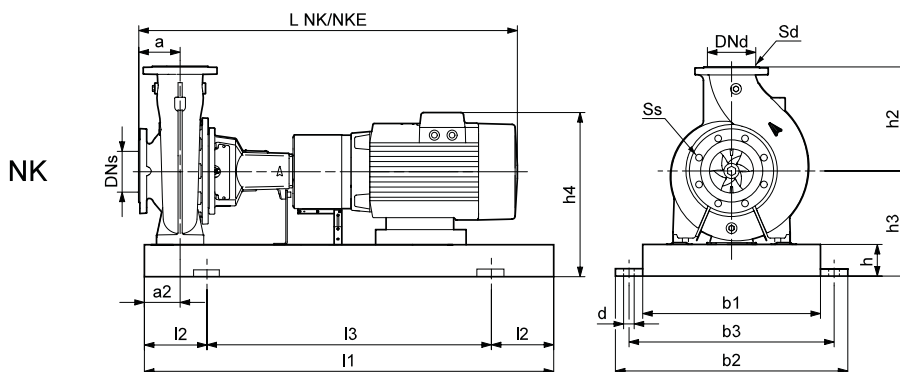
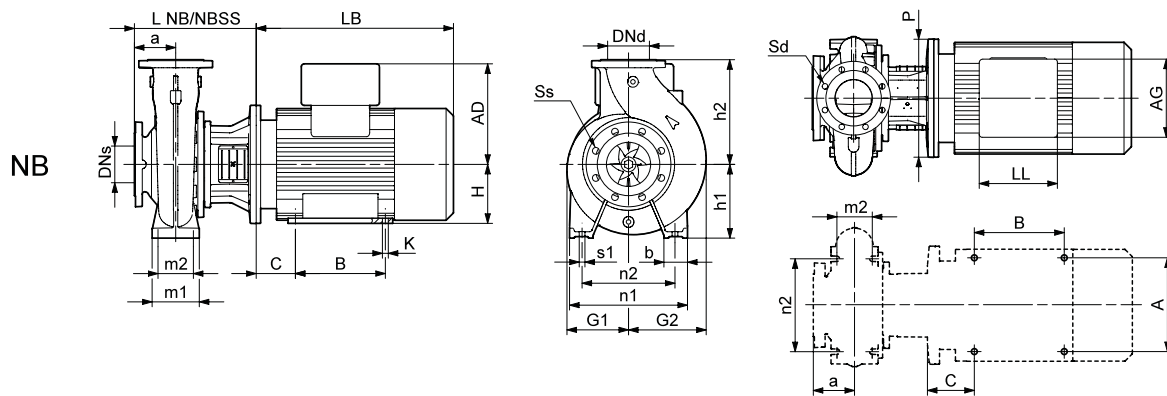
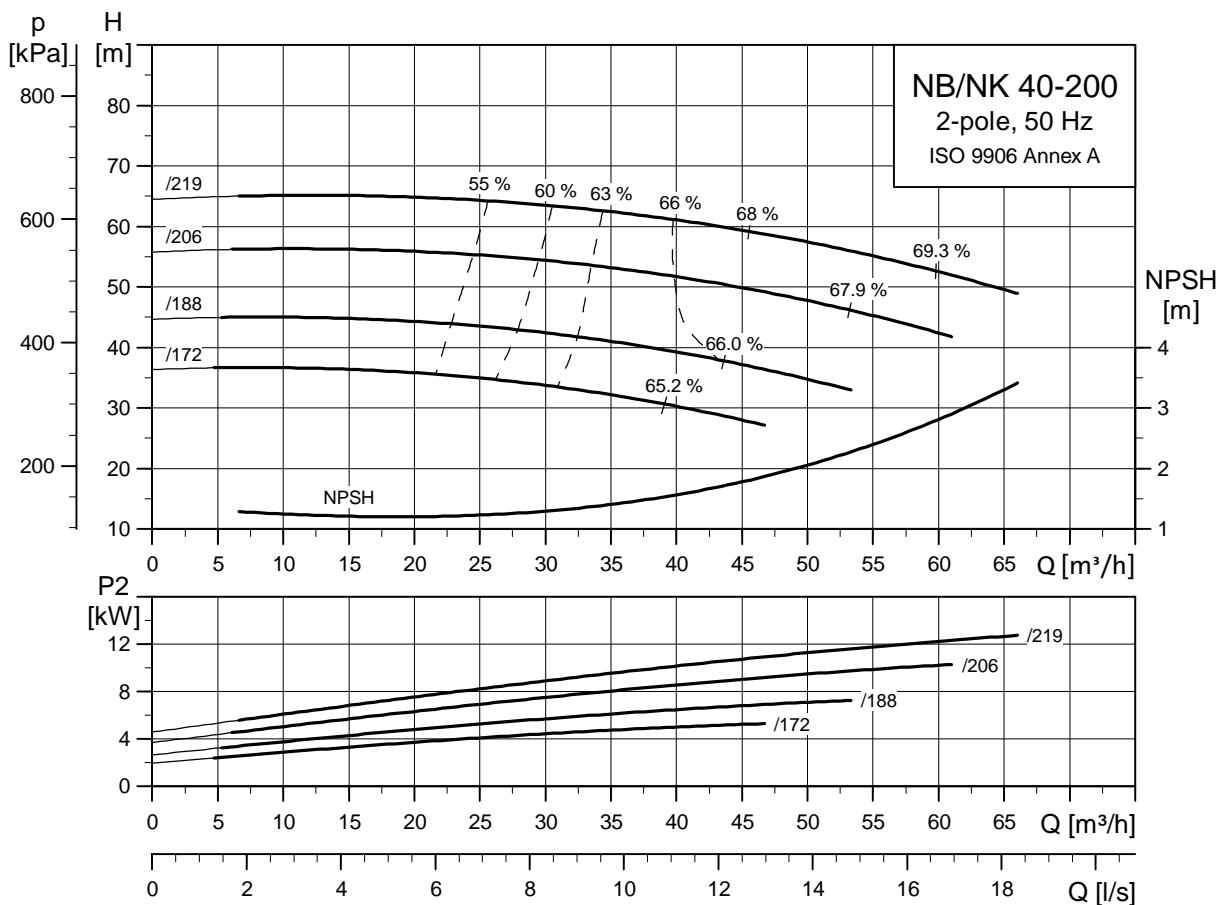
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 40-200
2 polos



TM03 5090 4106

TM03 4182 4106

TM03 6005 4106

| Tipo de bomba | | 40-200/172 | 40-200/188 | 40-200/206 | 40-200/219 | |
|----------------------------------------|------------------------------|------------|------------|--------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 132SC-D | MG 132SD-D | Siemens 160M | Siemens 160M | |
| | Motor eléctrico | MGE 132SC | MGE 132SD | MMGE 160M | MMGE 160MX | |
| Datos generales NB/NK | P ₂ | [kW] | 5.5 | 7.5 | 11 | 15 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 | 40 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 180 | 180 | 180 | 180 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| | L NK | [mm] | 941/1031 | 941/1031 | 1065/1148 | 1065/1148 |
| | L NKE | [mm] | 941/1031 | 941/1031 | 1036/1119 | 1048/1131 |
| | Peso NK | [kg] | 163/160 | 163/160 | 208/202 | 217/211 |
| | Peso NKE | [kg] | 170/167 | 173/170 | 256/250 | 285/279 |
| | Peso NK SS | [kg] | 167/163 | 167/163 | 211/206 | 220/215 |
| Datos NK | Peso NKE SS | [kg] | 173/170 | 176/173 | 259/254 | 288/283 |
| | l ₁ | [mm] | 1120 | 1120 | 1250 | 1250 |
| | l ₂ | [mm] | 190 | 190 | 205 | 205 |
| | l ₃ | [mm] | 740 | 740 | 840 | 840 |
| | b ₁ | [mm] | 380 | 380 | 430 | 430 |
| | b ₂ | [mm] | 490 | 490 | 540 | 540 |
| | b ₃ | [mm] | 440 | 440 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 245 | 245 |
| Datos NB | h ₄ ¹⁾ | [mm] | 374/428 | 374/428 | 442/604 | 442/622 |
| | Número de bancada | | 5 | 5 | 6 | 6 |
| | Diseño | | A | A | B ²⁾ | B ²⁾ |
| | L NB | [mm] | 313 | 313 | 343 | 343 |
| | L NB SS | [mm] | 313 | 313 | 343 | 343 |
| | h ₁ | [mm] | 160 | 160 | - | - |
| | G ₁ | [mm] | 140 | 140 | 140 | 140 |
| | G ₂ | [mm] | 157 | 157 | 157 | 157 |
| | m ₁ | [mm] | 100 | 100 | - | - |
| | m ₂ | [mm] | 70 | 70 | - | - |
| | n ₁ | [mm] | 265 | 265 | - | - |
| | n ₂ | [mm] | 212 | 212 | - | - |
| | b | [mm] | 50 | 50 | - | - |
| | s ₁ | [mm] | M12 | M12 | - | - |
| | H | [mm] | - | - | 160 | 160 |
| | LB ¹⁾ | [mm] | 391/391 | 391/391 | 478/449 | 478/461 |
| | AD ¹⁾ | [mm] | 134/188 | 134/188 | 197/359 | 197/377 |
| AG ¹⁾ | [mm] | 202/290 | 202/290 | 165/296 | 165/296 | |
| LL ¹⁾ | [mm] | 103/300 | 103/300 | 165/410 | 165/410 | |
| P | [mm] | 300 | 300 | 350 | 350 | |
| C | [mm] | - | - | 108 | 108 | |
| B | [mm] | - | - | 210 | 210 | |
| A | [mm] | - | - | 254 | 254 | |
| K | [mm] | - | - | 15 | 15 | |
| Peso NB ¹⁾ | [kg] | 86/93 | 86/96 | 124/172 | 133/201 | |
| Peso NB SS ¹⁾ | [kg] | 93/100 | 93/103 | 130/178 | 139/207 | |

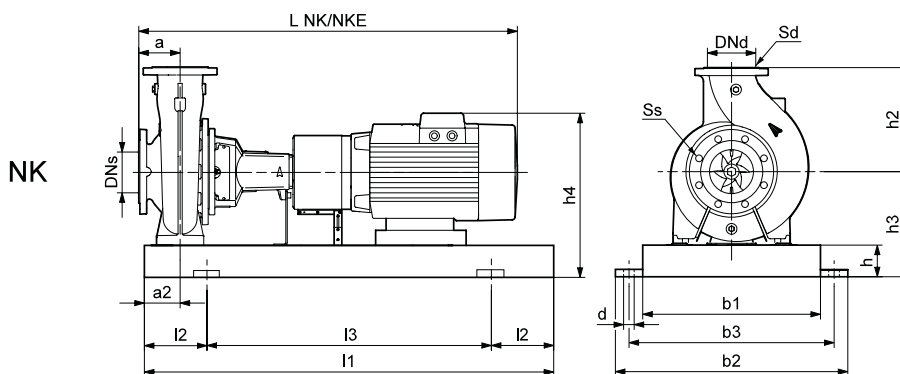
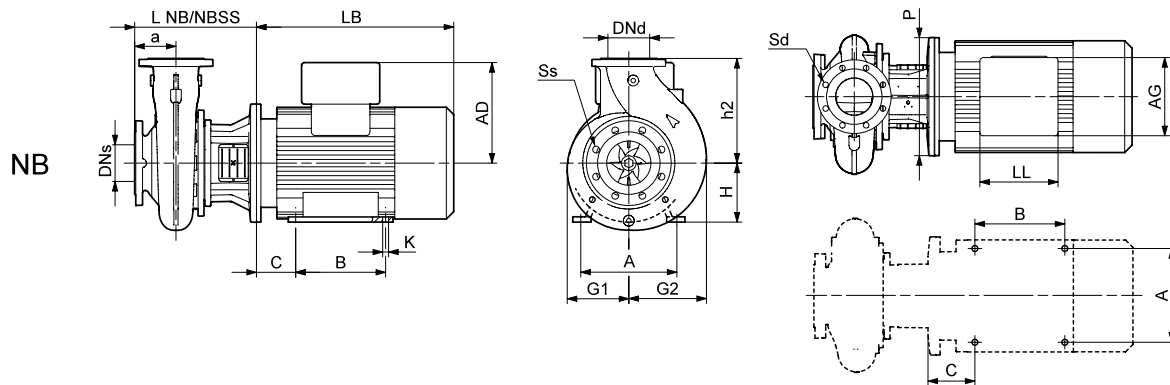
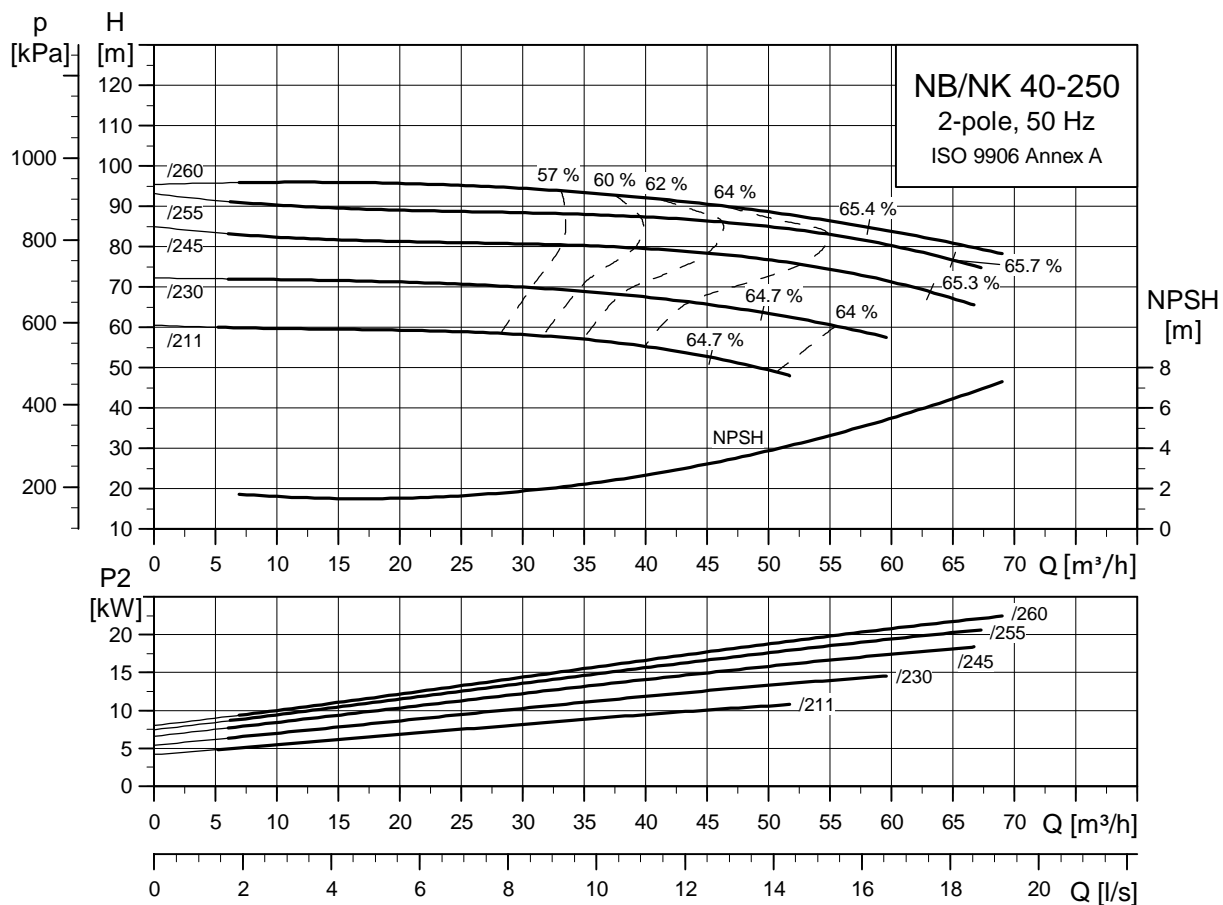
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 40-250
2 polos



TM03 5091 4106

TM03 4181 4106

TM03 6005 4106

| Tipo de bomba | | 40-250/211 | 40-250/230 | 40-250/245 | 40-250/255 | 40-250/260 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|--------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160M | Siemens 160M | Siemens 160L | Siemens 180M | Siemens 200L | |
| | Motor eléctrico | MMGE 160M | MMGE 160MX | MMGE 160L | MMGE 180M | - | |
| Datos generales NB/NK | P ₂ | [kW] | 11 | 15 | 18.5 | 22 | 30 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 | 40 | 40 |
| | a | [mm] | 100 | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 225 | 225 | 225 | 225 | 225 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1065/1148 | 1065/1148 | 1105/1188 | 1197/1272 | 1254/1329 |
| | L NKE | [mm] | 1036/1119 | 1048/1131 | 1086/1169 | 1120/1195 | -/- |
| | Peso NK | [kg] | 219/213 | 228/222 | 248/242 | 277/268 | 421/415 |
| | Peso NKE | [kg] | 267/261 | 296/290 | 327/321 | 358/349 | -/- |
| | Peso NK SS | [kg] | 225/219 | 234/228 | 254/248 | 283/274 | 427/421 |
| | Peso NKE SS | [kg] | 273/267 | 302/296 | 333/327 | 364/355 | -/- |
| Datos NK | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 | 1600 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 | 270 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 | 1060 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 | 530 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 | 660 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 | 600 |
| | d | [mm] | 24 | 24 | 24 | 24 | 28 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 | 100 |
| | h ₃ | [mm] | 260 | 260 | 260 | 265 | 305 |
| | h ₄ ¹⁾ | [mm] | 457/619 | 457/637 | 457/637 | 523/664 | 610/- |
| Número de bancada | | 6 | 6 | 6 | 6 | 8 | |
| Datos NB | Diseño | | B ²⁾ | B ²⁾ | B ²⁾ | B | B ²⁾ |
| | L NB | [mm] | 343 | 343 | 343 | 343 | 343 |
| | L NB SS | [mm] | 343 | 343 | 343 | 343 | 343 |
| | h ₁ | [mm] | - | - | - | - | - |
| | G ₁ | [mm] | 164 | 164 | 164 | 164 | 164 |
| | G ₂ | [mm] | 172 | 172 | 172 | 172 | 172 |
| | m ₁ | [mm] | - | - | - | - | - |
| | m ₂ | [mm] | - | - | - | - | - |
| | n ₁ | [mm] | - | - | - | - | - |
| | n ₂ | [mm] | - | - | - | - | - |
| | b | [mm] | - | - | - | - | - |
| | s ₁ | [mm] | - | - | - | - | - |
| | H | [mm] | 160 | 160 | 160 | 180 | 200 |
| | LB ¹⁾ | [mm] | 478/449 | 478/461 | 518/499 | 602/525 | 659/- |
| | AD ¹⁾ | [mm] | 197/359 | 197/377 | 197/377 | 258/399 | 305/- |
| | AG ¹⁾ | [mm] | 165/296 | 165/296 | 165/296 | 152/328 | 260/- |
| | LL ¹⁾ | [mm] | 165/410 | 165/410 | 165/410 | 132/456 | 192/- |
| | P | [mm] | 350 | 350 | 350 | 350 | 400 |
| | C | [mm] | 108 | 108 | 108 | 121 | 133 |
| | B | [mm] | 210 | 210 | 254 | 241 | 305 |
| | A | [mm] | 254 | 254 | 254 | 279 | 318 |
| K | [mm] | 15 | 15 | 15 | 15 | 19 | |
| Peso NB ¹⁾ | [kg] | 129/177 | 138/206 | 158/237 | 187/268 | 275/- | |
| Peso NB SS ¹⁾ | [kg] | 136/184 | 145/213 | 165/244 | 194/275 | 281/- | |

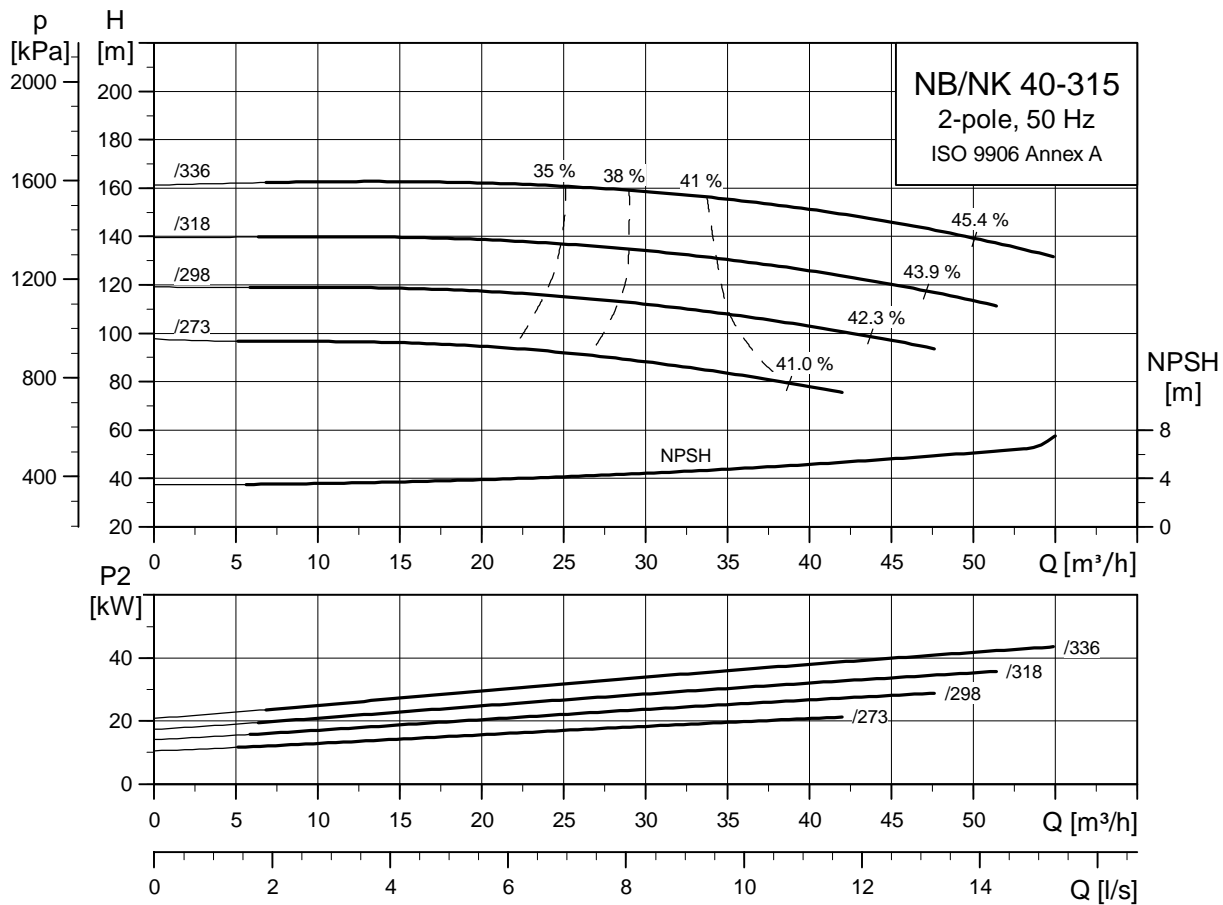
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

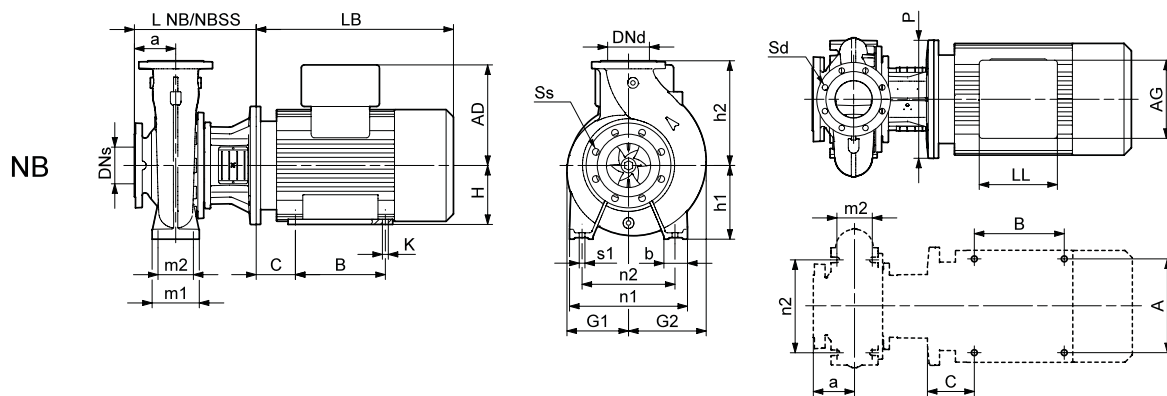
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

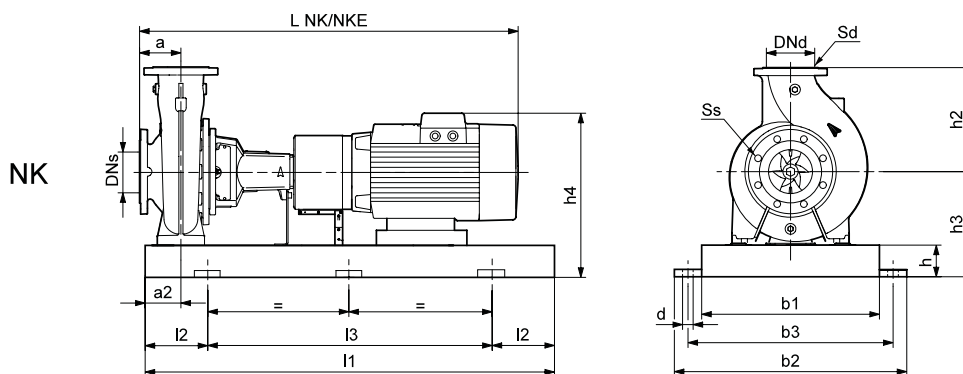
NB, NK 40-315
2 polos



TM03 5092 4106



TM03 4182 4106



TM03 4179 1806

| Tipo de bomba | | 40-315/273 | 40-315/298 | 40-315/318 | 40-315/336 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 180M | Siemens 200L | Siemens 200L | Siemens 225M | |
| | Motor eléctrico | MMGE 180M | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 22 | 30 | 37 | 45 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 | 40 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 250 | 250 | 250 | 250 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1311/1407 | 1368/1464 | 1368/1464 | 1418/1514 |
| | L NKE | [mm] | 1234/1330 | -/- | -/- | -/- |
| | Peso NK | [kg] | 341/333 | 476/470 | 476/470 | 597/591 |
| | Peso NKE | [kg] | 422/414 | -/- | -/- | -/- |
| | Peso NK SS | [kg] | 337/328 | 472/466 | 472/466 | 593/587 |
| | Peso NKE SS | [kg] | 418/409 | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1250 | 1600 | 1600 | 1600 |
| | l ₂ | [mm] | 205 | 270 | 270 | 270 |
| | l ₃ | [mm] | 840 | 1060 | 1060 | 1060 |
| | b ₁ | [mm] | 430 | 530 | 530 | 530 |
| | b ₂ | [mm] | 540 | 660 | 660 | 660 |
| | b ₃ | [mm] | 490 | 600 | 600 | 600 |
| | d | [mm] | 24 | 28 | 28 | 28 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 100 | 100 | 100 |
| | h ₃ | [mm] | 280 | 305 | 305 | 330 |
| | h ₄ ¹⁾ | [mm] | 538/679 | 610/- | 610/- | 655/- |
| Número de bancada | | 6 | 8 | 8 | 8 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 398 | 398 | 398 | 428 |
| | L NB SS | [mm] | 398 | 398 | 398 | 428 |
| | h ₁ | [mm] | 200 | 200 | 200 | 200 |
| | G ₁ | [mm] | 200 | 200 | 200 | 200 |
| | G ₂ | [mm] | 206 | 206 | 206 | 206 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 345 | 345 | 345 | 345 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | 180 | 200 | 200 | 225 |
| | LB ¹⁾ | [mm] | 602/525 | 659/- | 659/- | 709/- |
| | AD ¹⁾ | [mm] | 258/399 | 305/- | 305/- | 325/- |
| | AG ¹⁾ | [mm] | 152/328 | 260/- | 260/- | 260/- |
| | LL ¹⁾ | [mm] | 132/456 | 192/- | 192/- | 192/- |
| | P | [mm] | 350 | 400 | 400 | 450 |
| | C | [mm] | 121 | 133 | 133 | 149 |
| | B | [mm] | 241 | 305 | 305 | 311 |
| A | [mm] | 279 | 318 | 318 | 356 | |
| K | [mm] | 15 | 19 | 19 | 19 | |
| Peso NB ¹⁾ | [kg] | 238/319 | 328/- | 328/- | 453/- | |
| Peso NB SS ¹⁾ | [kg] | 238/319 | 328/- | 328/- | 452/- | |

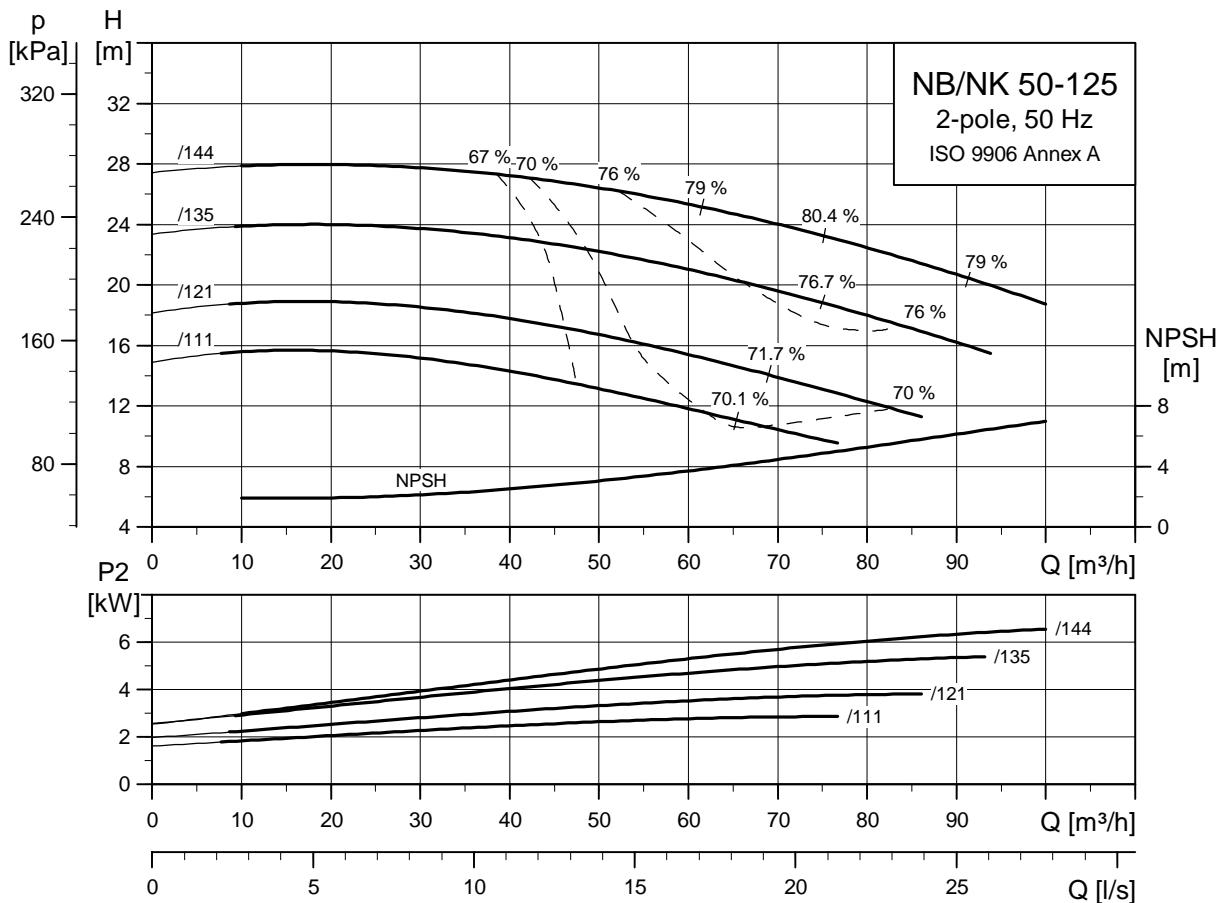
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

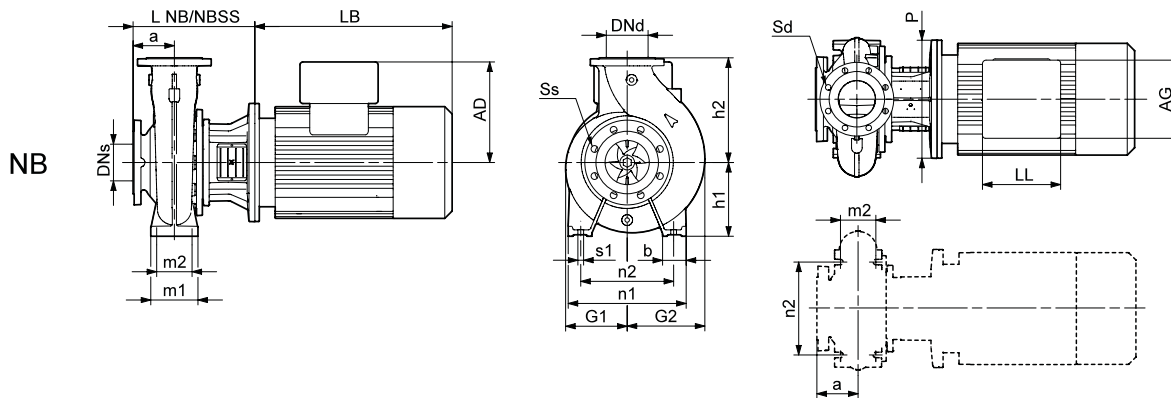
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

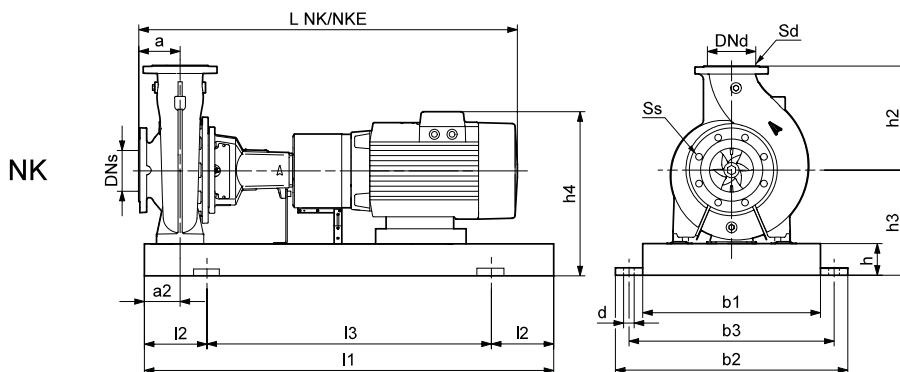
NB, NK 50-125
2 polos



TM03 5093 4106



TM03 4180 4106



TM03 6005 4106

| Tipo de bomba | | 50-125/111 | 50-125/121 | 50-125/135 | 50-125/144 | |
|----------------------------------------|--------------------|------------|------------|------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 100LC-D | MG 112MC-D | MG 132SC-D | MG 132SD-D | |
| | Motor eléctrico | MGE 100LC | MGE 112MC | MGE 132SC | MGE 132SD | |
| Datos generales NB/NK | P ₂ | [kW] | 3 | 4 | 5.5 | 7.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 50 | 50 | 50 | 50 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 160 | 160 | 160 | 160 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 859/955 | 896/992 | 941/1031 | 941/1031 |
| | L NKE | [mm] | 859/955 | 896/992 | 941/1031 | 941/1031 |
| | Peso NK | [kg] | 127/125 | 142/140 | 152/149 | 152/149 |
| | Peso NKE | [kg] | 135/133 | 143/140 | 159/155 | 162/158 |
| | Peso NK SS | [kg] | 129/126 | 144/142 | 154/150 | 154/150 |
| Peso NKE SS | [kg] | 137/134 | 144/142 | 160/157 | 163/160 | |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1120 | 1120 |
| | l ₂ | [mm] | 170 | 170 | 190 | 190 |
| | l ₃ | [mm] | 660 | 660 | 740 | 740 |
| | b ₁ | [mm] | 340 | 340 | 380 | 380 |
| | b ₂ | [mm] | 450 | 450 | 490 | 490 |
| | b ₃ | [mm] | 400 | 400 | 440 | 440 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 212 | 212 | 215 | 215 |
| h ₄ ¹⁾ | [mm] | 332/389 | 346/400 | 349/403 | 349/403 | |
| Número de bancada | | 4 | 4 | 5 | 5 | |
| Datos NB | Diseño | | A | A | A ²⁾ | A ²⁾ |
| | L NB | [mm] | 274 | 274 | 313 | 313 |
| | L NB SS | [mm] | 293 | 293 | 313 | 313 |
| | h ₁ | [mm] | 132 | 132 | 132 | 132 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 130 | 130 | 130 | 130 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 335/335 | 372/372 | 391/391 | 391/391 |
| | AD ¹⁾ | [mm] | 120/177 | 134/188 | 134/188 | 134/188 |
| | AG ¹⁾ | [mm] | 162/264 | 202/290 | 202/290 | 202/290 |
| | LL ¹⁾ | [mm] | 103/260 | 103/300 | 103/300 | 103/300 |
| | P | [mm] | 250 | 250 | 300 | 300 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 59/67 | 77/78 | 83/89 | 83/93 | |
| Peso NB SS ¹⁾ | [kg] | 64/72 | 82/82 | 86/92 | 86/95 | |

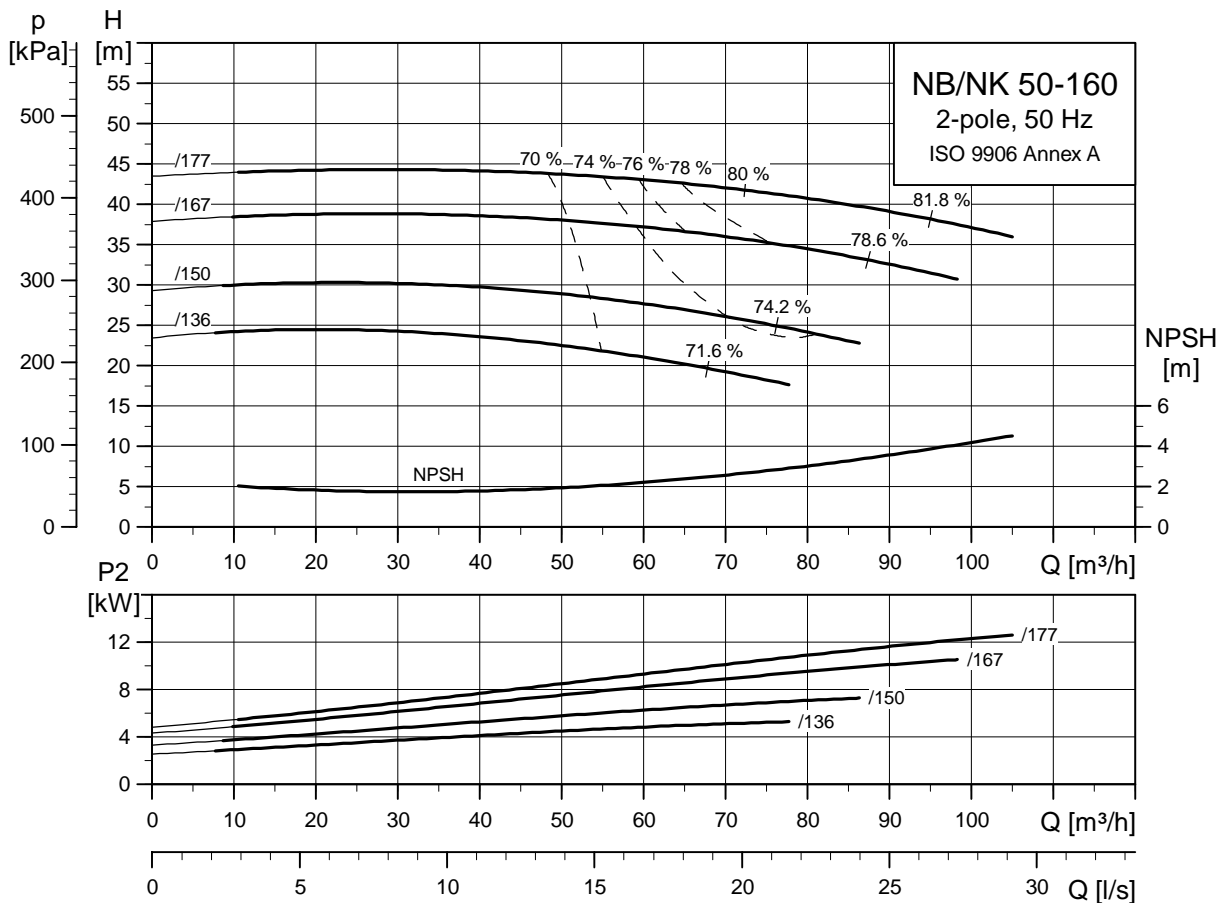
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

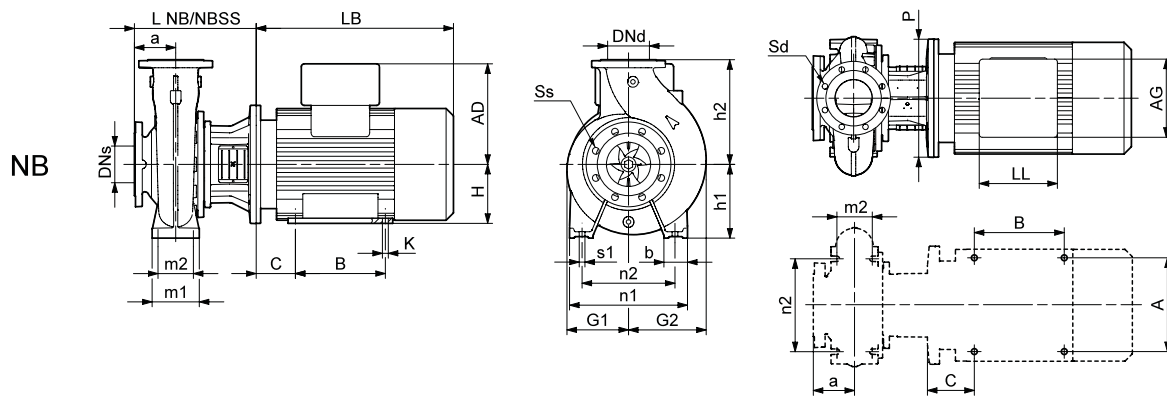
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

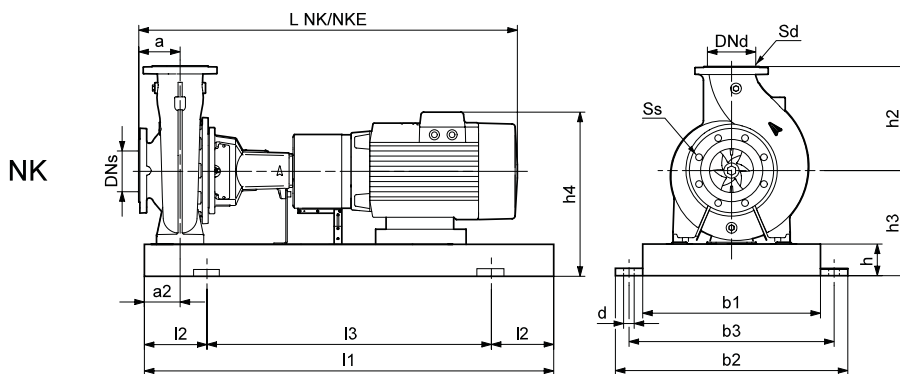
NB, NK 50-160
2 polos



TM03 5084 4106



TM03 4182 4106



TM03 6005 4106

| Tipo de bomba | | 50-160/136 | 50-160/150 | 50-160/167 | 50-160/177 | |
|----------------------------------------|------------------------------|------------|------------|--------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 132SC-D | MG 132SD-D | Siemens 160M | Siemens 160M | |
| | Motor eléctrico | MGE 132SC | MGE 132SD | MMGE 160M | MMGE 160MX | |
| Datos generales NB/NK | P ₂ | [kW] | 5.5 | 7.5 | 11 | 15 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 50 | 50 | 50 | 50 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 180 | 180 | 180 | 180 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| | L NK | [mm] | 941/1031 | 941/1031 | 1065/1148 | 1065/1148 |
| | L NKE | [mm] | 941/1031 | 941/1031 | 1036/1119 | 1048/1131 |
| | Peso NK | [kg] | 157/154 | 157/154 | 202/196 | 211/205 |
| | Peso NKE | [kg] | 164/161 | 167/164 | 250/244 | 279/273 |
| | Peso NK SS | [kg] | 161/158 | 161/158 | 206/200 | 215/209 |
| Datos NK | Peso NKE SS | [kg] | 168/165 | 171/168 | 254/248 | 283/277 |
| | l ₁ | [mm] | 1120 | 1120 | 1250 | 1250 |
| | l ₂ | [mm] | 190 | 190 | 205 | 205 |
| | l ₃ | [mm] | 740 | 740 | 840 | 840 |
| | b ₁ | [mm] | 380 | 380 | 430 | 430 |
| | b ₂ | [mm] | 490 | 490 | 540 | 540 |
| | b ₃ | [mm] | 440 | 440 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 245 | 245 |
| Datos NB | h ₄ ¹⁾ | [mm] | 374/428 | 374/428 | 442/604 | 442/622 |
| | Número de bancada | | 5 | 5 | 6 | 6 |
| | Diseño | | A | A | B ²⁾ | B ²⁾ |
| | L NB | [mm] | 313 | 313 | 343 | 343 |
| | L NB SS | [mm] | 213 | 213 | 243 | 243 |
| | h ₁ | [mm] | 160 | 160 | - | - |
| | G ₁ | [mm] | 125 | 125 | 125 | 125 |
| | G ₂ | [mm] | 150 | 150 | 150 | 150 |
| | m ₁ | [mm] | 100 | 100 | - | - |
| | m ₂ | [mm] | 70 | 70 | - | - |
| | n ₁ | [mm] | 265 | 265 | - | - |
| | n ₂ | [mm] | 212 | 212 | - | - |
| | b | [mm] | 50 | 50 | - | - |
| | s ₁ | [mm] | M12 | M12 | - | - |
| | H | [mm] | - | - | 160 | 160 |
| | LB ¹⁾ | [mm] | 391/391 | 391/391 | 478/449 | 478/461 |
| | AD ¹⁾ | [mm] | 134/188 | 134/188 | 197/359 | 197/377 |
| AG ¹⁾ | [mm] | 202/290 | 202/290 | 165/296 | 165/296 | |
| LL ¹⁾ | [mm] | 103/300 | 103/300 | 165/410 | 165/410 | |
| P | [mm] | 300 | 300 | 350 | 350 | |
| C | [mm] | - | - | 108 | 108 | |
| B | [mm] | - | - | 210 | 210 | |
| A | [mm] | - | - | 254 | 254 | |
| K | [mm] | - | - | 15 | 15 | |
| Peso NB ¹⁾ | [kg] | 83/89 | 83/93 | 120/168 | 129/197 | |
| Peso NB SS ¹⁾ | [kg] | 87/94 | 87/97 | 124/172 | 133/201 | |

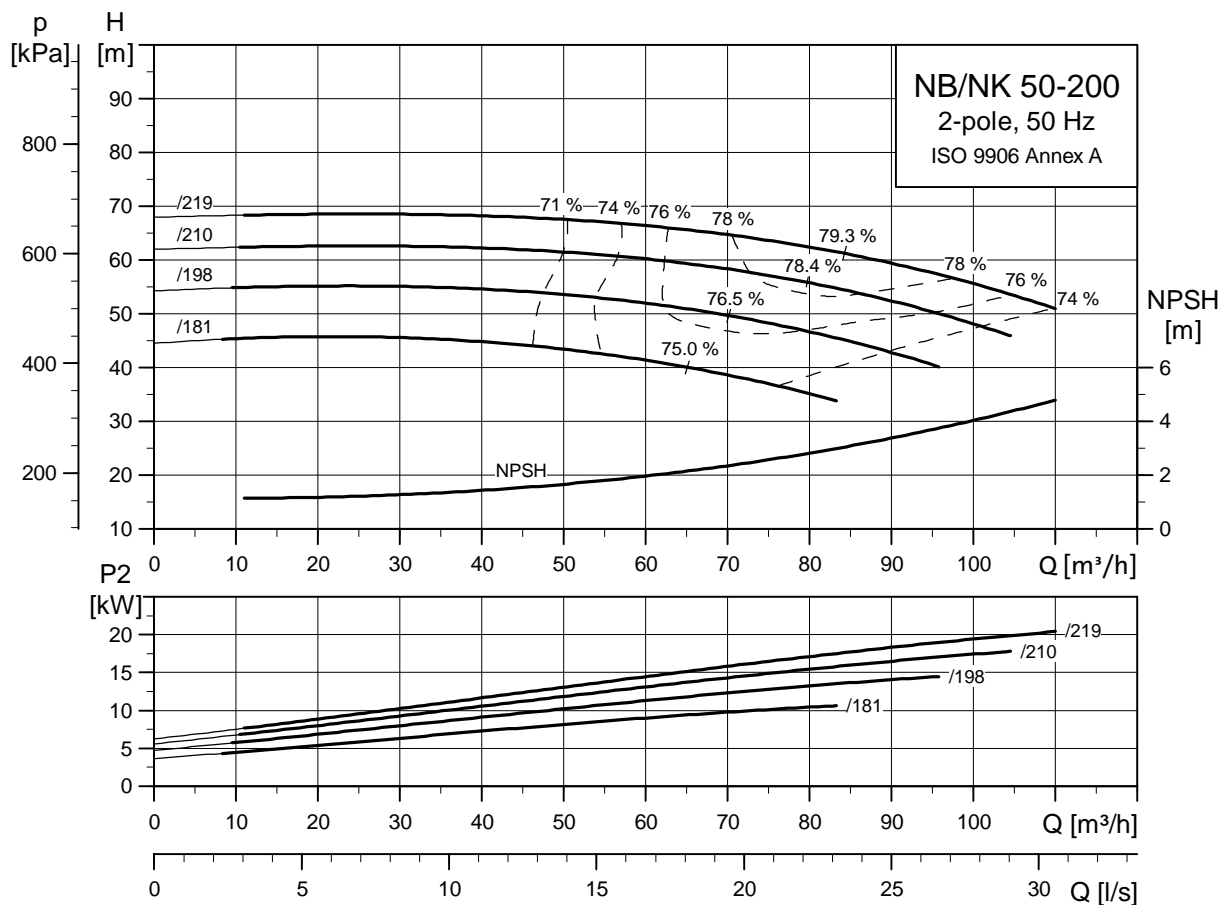
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

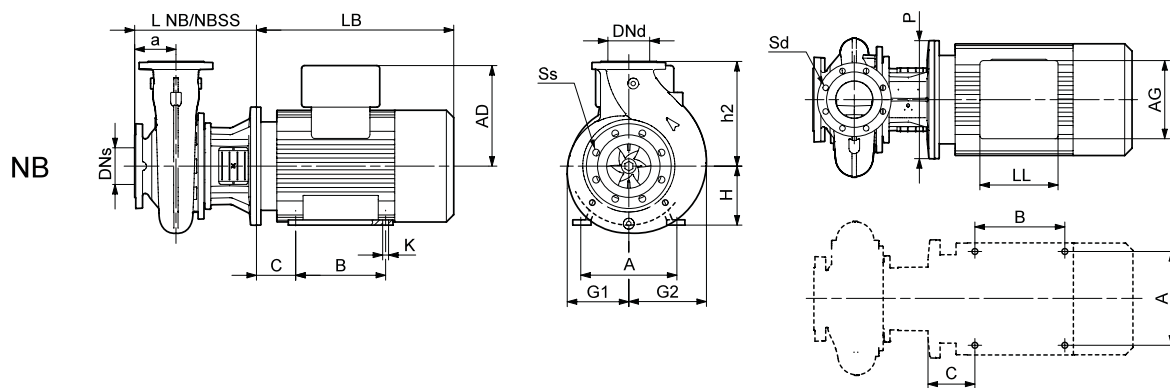
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

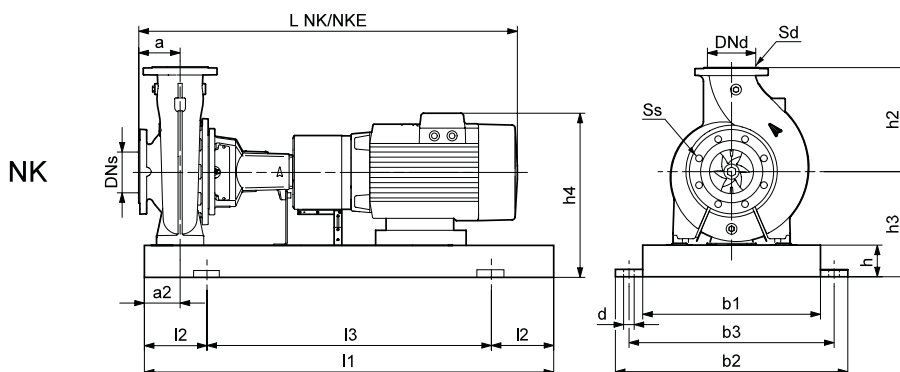
NB, NK 50-200
2 polos



TM03 5095 4106



TM03 4181 4106



TM03 6005 4106

| Tipo de bomba | | 50-200/181 | 50-200/198 | 50-200/210 | 50-200/219 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 160M | Siemens 160M | Siemens 160L | Siemens 180M | |
| | Motor eléctrico | MMGE 160M | MMGE 160MX | MMGE 160L | MMGE 180M | |
| Datos generales NB/NK | P ₂ | [kW] | 11 | 15 | 18,5 | 22 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 50 | 50 | 50 | 50 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 200 | 200 | 200 | 200 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1065/1148 | 1065/1148 | 1105/1188 | 1197/1272 |
| | L NKE | [mm] | 1036/1119 | 1048/1131 | 1086/1169 | 1120/1195 |
| | Peso NK | [kg] | 206/200 | 215/209 | 235/229 | 272/263 |
| | Peso NKE | [kg] | 254/248 | 283/277 | 314/308 | 353/344 |
| | Peso NK SS | [kg] | 212/207 | 221/216 | 241/236 | 279/270 |
| | Peso NKE SS | [kg] | 260/255 | 289/284 | 320/315 | 360/351 |
| Datos NK | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 245 | 245 | 245 | 265 |
| | h ₄ ¹⁾ | [mm] | 442/604 | 442/622 | 442/622 | 523/664 |
| Número de bancada | | 6 | 6 | 6 | 6 | |
| Datos NB | Diseño | | B ²⁾ | B ²⁾ | B ²⁾ | B |
| | L NB | [mm] | 343 | 343 | 343 | 343 |
| | L NB SS | [mm] | 343 | 343 | 343 | 343 |
| | h ₁ | [mm] | - | - | - | - |
| | G ₁ | [mm] | 141 | 141 | 141 | 141 |
| | G ₂ | [mm] | 162 | 162 | 162 | 162 |
| | m ₁ | [mm] | - | - | - | - |
| | m ₂ | [mm] | - | - | - | - |
| | n ₁ | [mm] | - | - | - | - |
| | n ₂ | [mm] | - | - | - | - |
| | b | [mm] | - | - | - | - |
| | s ₁ | [mm] | - | - | - | - |
| | H | [mm] | 160 | 160 | 160 | 180 |
| | LB ¹⁾ | [mm] | 478/449 | 478/461 | 518/499 | 602/525 |
| | AD ¹⁾ | [mm] | 197/359 | 197/377 | 197/377 | 258/399 |
| | AG ¹⁾ | [mm] | 165/296 | 165/296 | 165/296 | 152/328 |
| | LL ¹⁾ | [mm] | 165/410 | 165/410 | 165/410 | 132/456 |
| | P | [mm] | 350 | 350 | 350 | 350 |
| | C | [mm] | 108 | 108 | 108 | 121 |
| | B | [mm] | 210 | 210 | 254 | 241 |
| | A | [mm] | 254 | 254 | 254 | 279 |
| | K | [mm] | 15 | 15 | 15 | 15 |
| | Peso NB ¹⁾ | [kg] | 121/169 | 130/198 | 150/229 | 179/260 |
| Peso NB SS ¹⁾ | [kg] | 130/178 | 139/207 | 159/238 | 188/269 | |

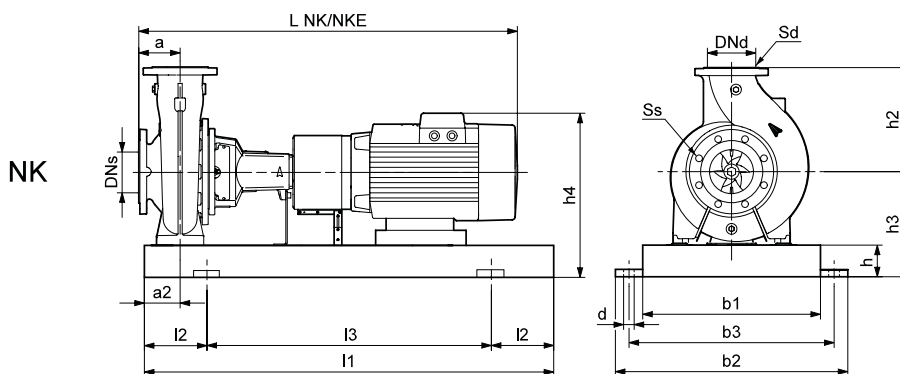
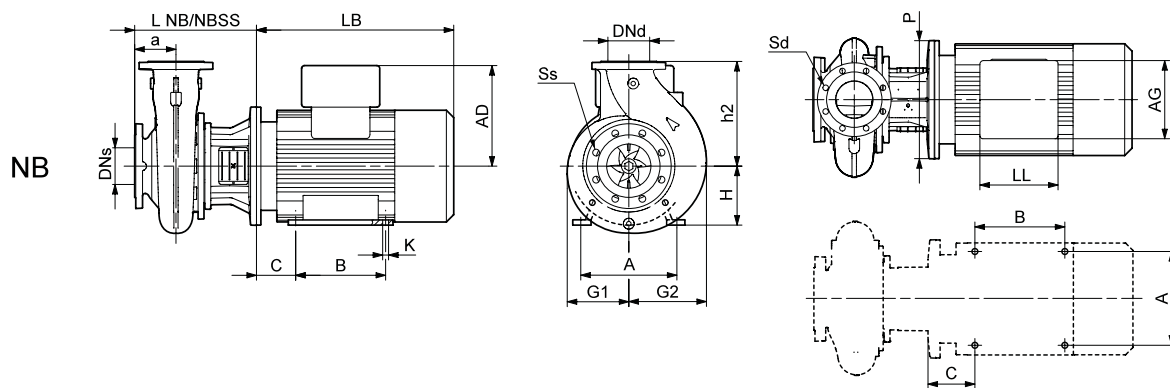
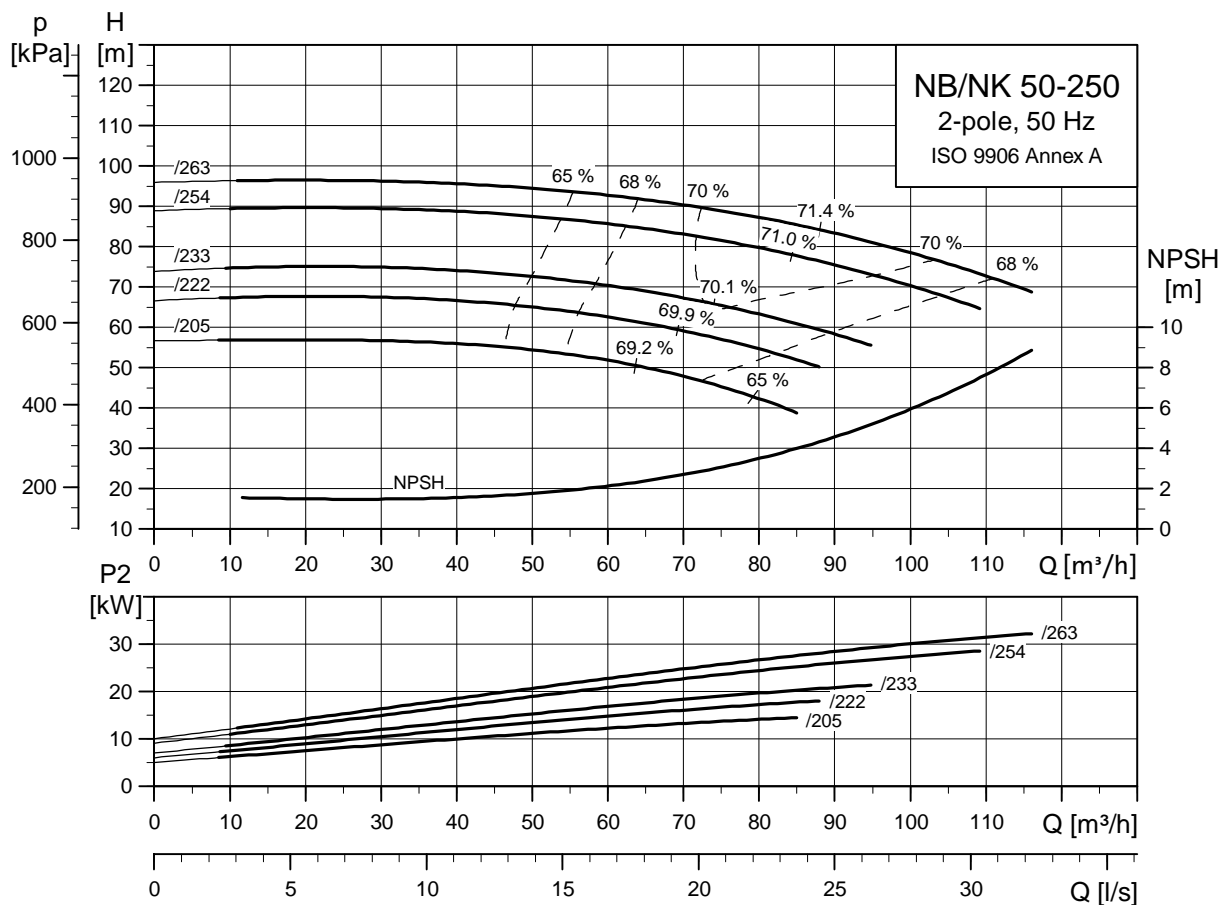
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 50-250
2 polos



TM03 5096 4106

TM03 4181 4106

TM03 6005 4106

| Tipo de bomba | | 50-250/205 | 50-250/222 | 50-250/233 | 50-250/254 | 50-250/263 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|--------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160M | Siemens 160L | Siemens 180M | Siemens 200L | Siemens 200L | |
| | Motor eléctrico | MMGE 160MX | MMGE 160L | MMGE 180M | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 15 | 18,5 | 22 | 30 | 37 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 50 | 50 | 50 | 50 | 50 |
| | a | [mm] | 100 | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 225 | 225 | 225 | 225 | 225 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1065/1148 | 1105/1188 | 1197/1272 | 1254/1329 | 1254/1329 |
| | L NKE | [mm] | 1048/1131 | 1086/1169 | 1120/1195 | -/- | -/- |
| | Peso NK | [kg] | 229/224 | 249/244 | 278/270 | 423/416 | 423/416 |
| | Peso NKE | [kg] | 297/292 | 328/323 | 359/351 | -/- | -/- |
| | Peso NK SS | [kg] | 235/230 | 255/250 | 284/275 | 428/422 | 428/422 |
| | Peso NKE SS | [kg] | 303/298 | 334/329 | 365/356 | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1250 | 1250 | 1250 | 1600 | 1600 |
| | l ₂ | [mm] | 205 | 205 | 205 | 270 | 270 |
| | l ₃ | [mm] | 840 | 840 | 840 | 1060 | 1060 |
| | b ₁ | [mm] | 430 | 430 | 430 | 530 | 530 |
| | b ₂ | [mm] | 540 | 540 | 540 | 660 | 660 |
| | b ₃ | [mm] | 490 | 490 | 490 | 600 | 600 |
| | d | [mm] | 24 | 24 | 24 | 28 | 28 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 100 | 100 |
| | h ₃ | [mm] | 260 | 260 | 265 | 305 | 305 |
| | h ₄ ¹⁾ | [mm] | 457/637 | 457/637 | 523/664 | 610/- | 610/- |
| Número de bancada | | 6 | 6 | 6 | 8 | 8 | |
| Datos NB | Diseño | | B ²⁾ | B ²⁾ | B | B ²⁾ | B ²⁾ |
| | L NB | [mm] | 343 | 343 | 343 | 343 | 343 |
| | L NB SS | [mm] | 343 | 343 | 343 | 343 | 343 |
| | h ₁ | [mm] | - | - | - | - | - |
| | G ₁ | [mm] | 164 | 164 | 164 | 164 | 164 |
| | G ₂ | [mm] | 180 | 180 | 180 | 180 | 180 |
| | m ₁ | [mm] | - | - | - | - | - |
| | m ₂ | [mm] | - | - | - | - | - |
| | n ₁ | [mm] | - | - | - | - | - |
| | n ₂ | [mm] | - | - | - | - | - |
| | b | [mm] | - | - | - | - | - |
| | s ₁ | [mm] | - | - | - | - | - |
| | H | [mm] | 160 | 160 | 180 | 200 | 200 |
| | LB ¹⁾ | [mm] | 478/461 | 518/499 | 602/525 | 659/- | 659/- |
| | AD ¹⁾ | [mm] | 197/377 | 197/377 | 258/399 | 305/- | 305/- |
| | AG ¹⁾ | [mm] | 165/296 | 165/296 | 152/328 | 260/- | 260/- |
| | LL ¹⁾ | [mm] | 165/410 | 165/410 | 132/456 | 192/- | 192/- |
| | P | [mm] | 350 | 350 | 350 | 400 | 400 |
| | C | [mm] | 108 | 108 | 121 | 133 | 133 |
| | B | [mm] | 210 | 254 | 241 | 305 | 305 |
| | A | [mm] | 254 | 254 | 279 | 318 | 318 |
| K | [mm] | 15 | 15 | 15 | 19 | 19 | |
| Peso NB ¹⁾ | [kg] | 139/207 | 159/238 | 188/269 | 276/- | 276/- | |
| Peso NB SS ¹⁾ | [kg] | 147/215 | 167/246 | 195/276 | 282/- | 282/- | |

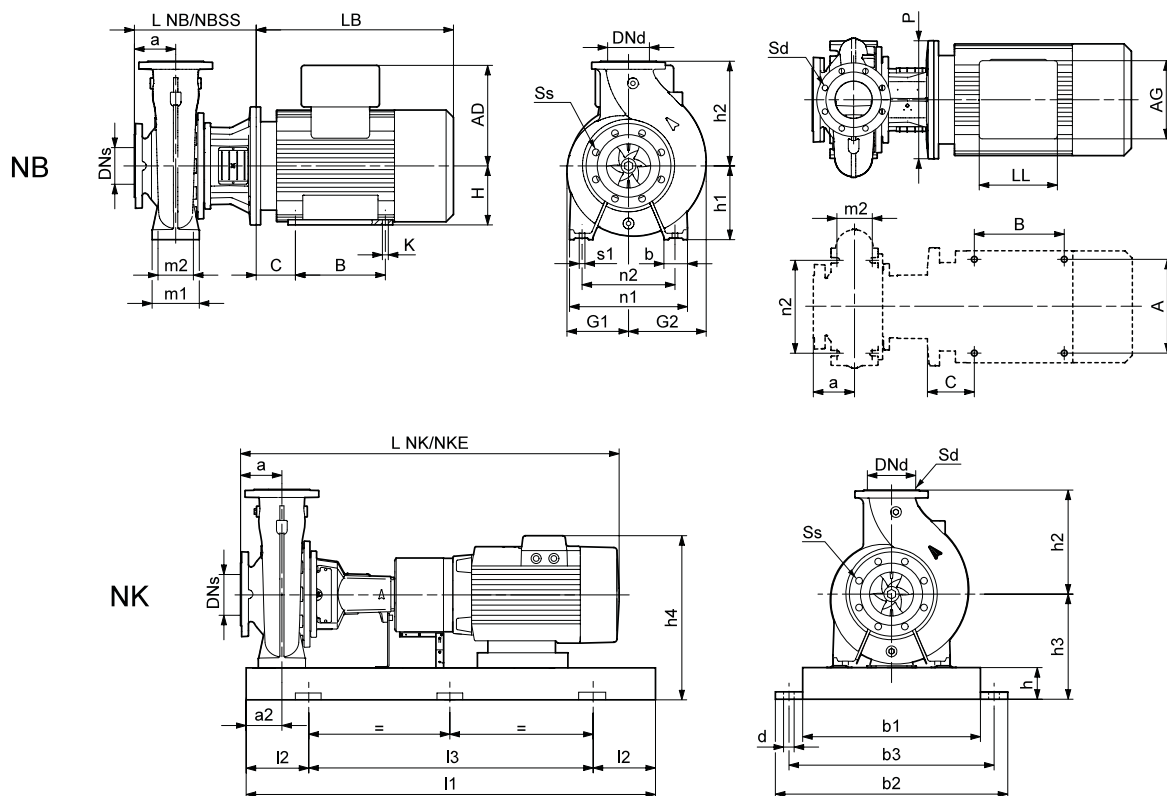
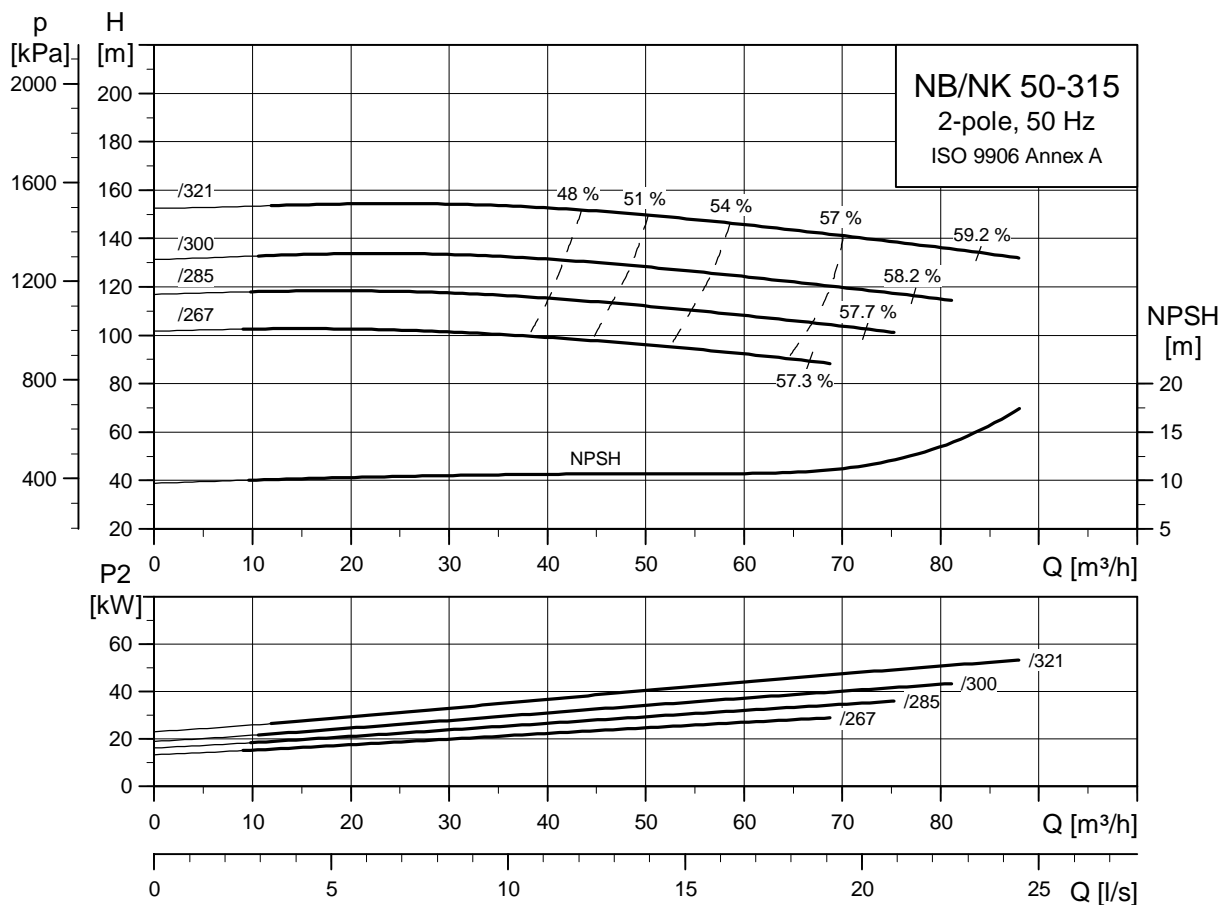
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 50-315
2 polos



TM03 5097 4106

TM03 4182 4106

TM03 4179 1806

| Tipo de bomba | | 50-315/267 | 50-315/285 | 50-315/300 | 50-315/321 | |
|----------------------------------------|--------------------|--------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 200L | Siemens 200L | Siemens 225M | Siemens 250M | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 30 | 37 | 45 | 55 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 50 | 50 | 50 | 50 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1368/1464 | 1368/1464 | 1418/1514 | 1486/1582 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 494/488 | 494/488 | 597/591 | 727/722 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | 488/482 | 488/482 | 591/585 | 721/716 |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1600 | 1600 | 1600 | 1800 |
| | l ₂ | [mm] | 270 | 270 | 270 | 300 |
| | l ₃ | [mm] | 1060 | 1060 | 1060 | 1200 |
| | b ₁ | [mm] | 530 | 530 | 530 | 600 |
| | b ₂ | [mm] | 660 | 660 | 660 | 730 |
| | b ₃ | [mm] | 600 | 600 | 600 | 670 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 325 | 325 | 330 | 355 |
| h ₄ ¹⁾ | [mm] | 630/- | 630/- | 655/- | 747/- | |
| Número de bancada | | 8 | 8 | 8 | 9 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 398 | 398 | 428 | 428 |
| | L NB SS | [mm] | 398 | 398 | 428 | 428 |
| | h ₁ | [mm] | 225 | 225 | 225 | 225 |
| | G ₁ | [mm] | 203 | 203 | 203 | 203 |
| | G ₂ | [mm] | 214 | 214 | 214 | 214 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 345 | 345 | 345 | 345 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | 200 | 200 | 225 | 250 |
| | LB ¹⁾ | [mm] | 659/- | 659/- | 709/- | 747/- |
| | AD ¹⁾ | [mm] | 305/- | 305/- | 325/- | 392/- |
| | AG ¹⁾ | [mm] | 260/- | 260/- | 260/- | 300/- |
| | LL ¹⁾ | [mm] | 192/- | 192/- | 192/- | 236/- |
| | P | [mm] | 400 | 400 | 450 | 550 |
| | C | [mm] | 133 | 133 | 149 | 168 |
| | B | [mm] | 305 | 305 | 311 | 349 |
| A | [mm] | 318 | 318 | 356 | 406 | |
| K | [mm] | 19 | 19 | 19 | 24 | |
| Peso NB ¹⁾ | [kg] | 333/- | 333/- | 457/- | 563/- | |
| Peso NB SS ¹⁾ | [kg] | 331/- | 331/- | 455/- | 557/- | |

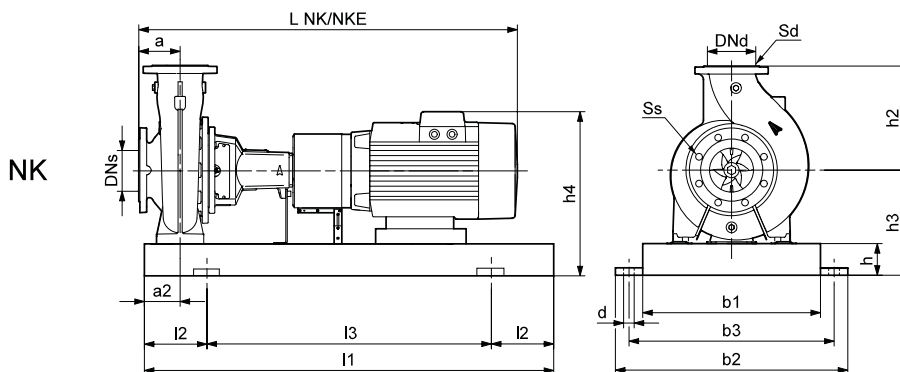
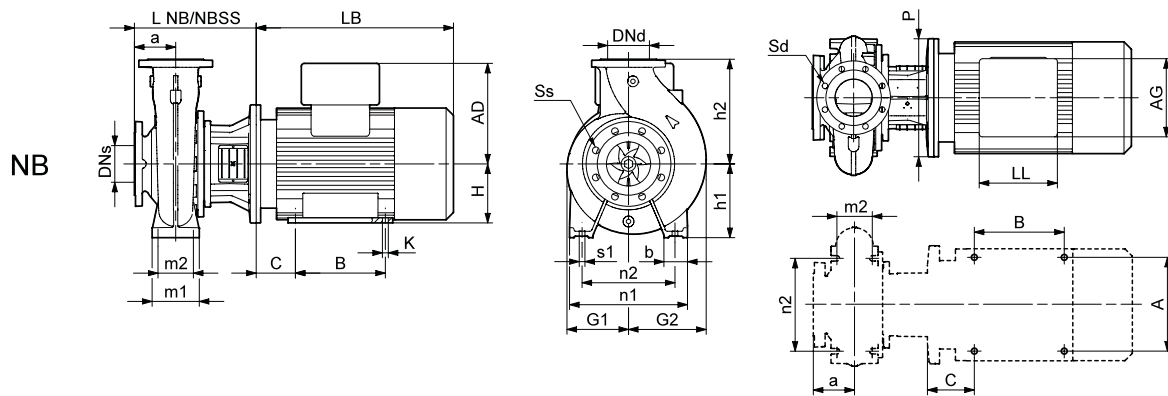
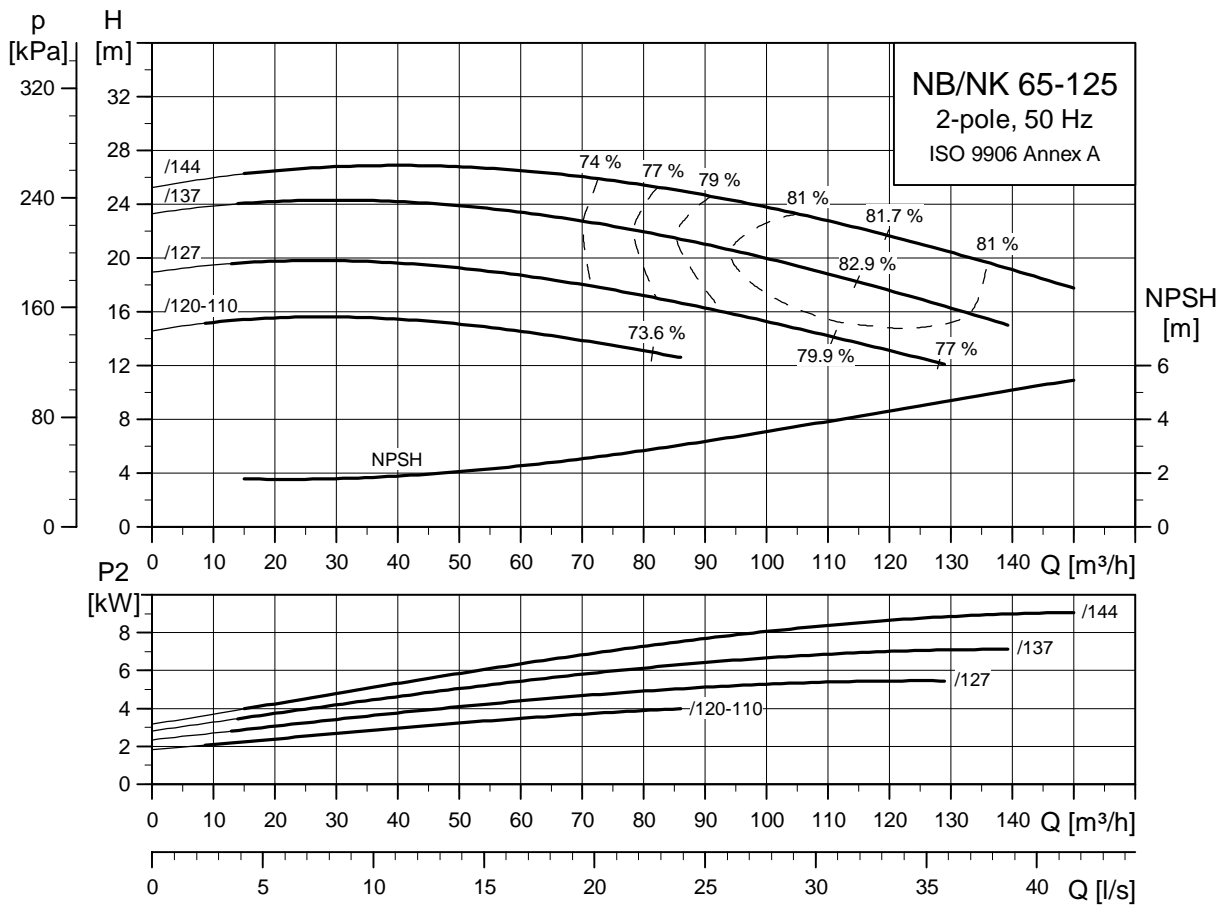
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 65-125
2 polos



TM03 5098 4106

TM03 4182 4106

TM03 6005 4106

| Tipo de bomba | | 65-125/120-110 | 65-125/127 | 65-125/137 | 65-125/144 | |
|----------------------------------------|--------------------|----------------|------------|------------|--------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 112MC-D | MG 132SC-D | MG 132SD-D | Siemens 160M | |
| | Motor eléctrico | MGE 112MC | MGE 132SC | MGE 132SD | MMGE 160M | |
| Datos generales NB/NK | P ₂ | [kW] | 4 | 5.5 | 7.5 | 11 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 | 65 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 180 | 180 | 180 | 180 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 896/992 | 941/1031 | 941/1031 | 1065/1148 |
| | L NKE | [mm] | 896/992 | 941/1031 | 941/1031 | 1036/1119 |
| | Peso NK | [kg] | 154/152 | 162/159 | 162/159 | 207/201 |
| | Peso NKE | [kg] | 154/152 | 169/165 | 172/168 | 255/249 |
| | Peso NK SS | [kg] | 156/153 | 163/160 | 163/160 | 208/202 |
| Peso NKE SS | [kg] | 156/154 | 170/167 | 173/170 | 256/250 | |
| Datos NK | l ₁ | [mm] | 1000 | 1120 | 1120 | 1250 |
| | l ₂ | [mm] | 170 | 190 | 190 | 205 |
| | l ₃ | [mm] | 660 | 740 | 740 | 840 |
| | b ₁ | [mm] | 340 | 380 | 380 | 430 |
| | b ₂ | [mm] | 450 | 490 | 490 | 540 |
| | b ₃ | [mm] | 400 | 440 | 440 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 240 | 245 |
| h ₄ ¹⁾ | [mm] | 374/428 | 374/428 | 374/428 | 442/604 | |
| Número de bancada | | 4 | 5 | 5 | 6 | |
| Datos NB | Diseño | | A | A | A | C ²⁾ |
| | L NB | [mm] | 274 | 313 | 313 | 343 |
| | L NB SS | [mm] | 293 | 313 | 313 | 343 |
| | h ₁ | [mm] | 160 | 160 | 160 | 160 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 146 | 146 | 146 | 146 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 280 | 280 | 280 | 280 |
| | n ₂ | [mm] | 212 | 212 | 212 | 212 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | 160 |
| | LB ¹⁾ | [mm] | 372/372 | 391/391 | 391/391 | 478/449 |
| | AD ¹⁾ | [mm] | 134/188 | 134/188 | 134/188 | 197/359 |
| | AG ¹⁾ | [mm] | 202/290 | 202/290 | 202/290 | 165/296 |
| | LL ¹⁾ | [mm] | 103/300 | 103/300 | 103/300 | 165/410 |
| | P | [mm] | 250 | 300 | 300 | 350 |
| | C | [mm] | - | - | - | 108 |
| | B | [mm] | - | - | - | 210 |
| A | [mm] | - | - | - | 254 | |
| K | [mm] | - | - | - | 15 | |
| Peso NB ¹⁾ | [kg] | 81/82 | 87/94 | 87/97 | 124/172 | |
| Peso NB SS ¹⁾ | [kg] | 86/86 | 90/96 | 90/99 | 128/176 | |

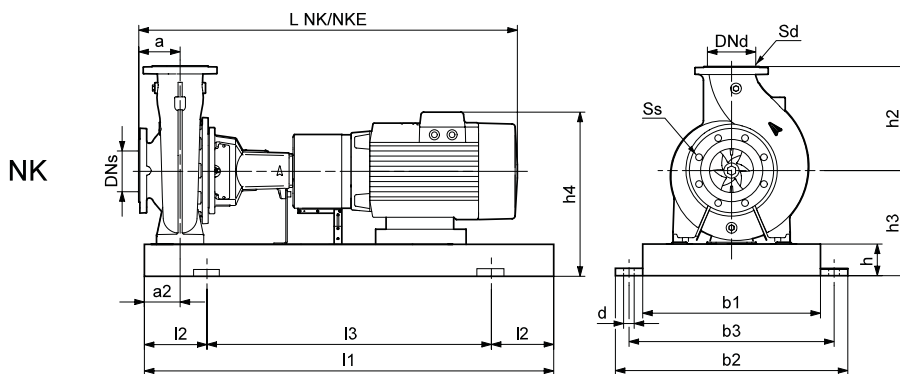
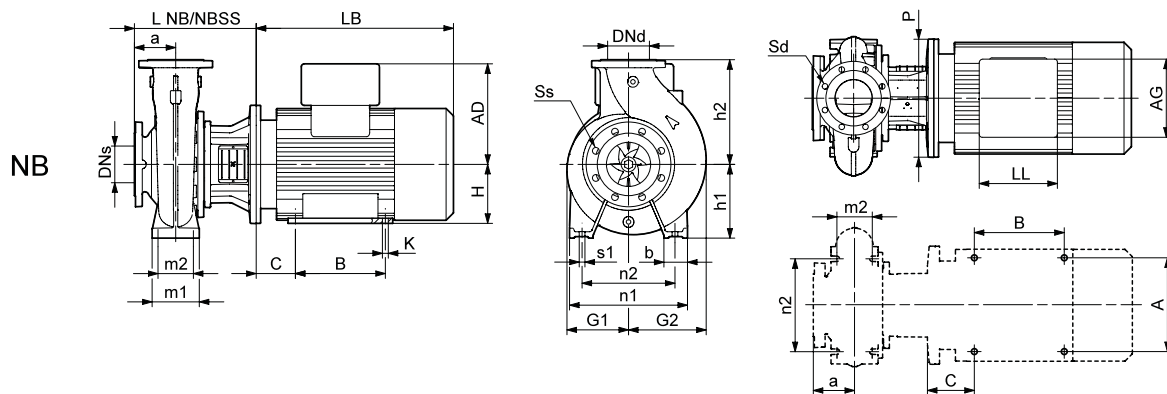
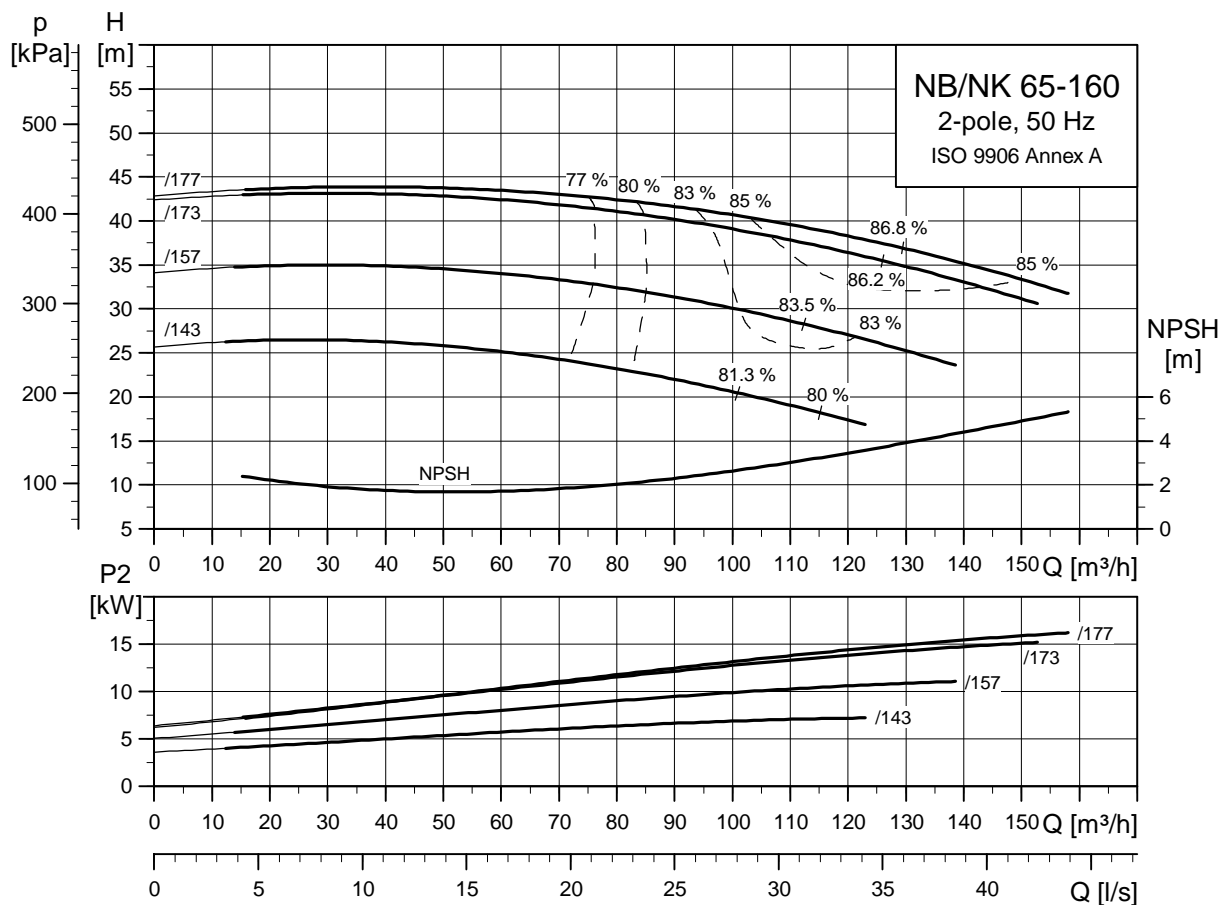
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 65-160
2 polos



TM03 5099 4106

TM03 4182 4106

TM03 6005 4106

| Tipo de bomba | | 65-160/143 | 65-160/157 | 65-160/173 | 65-160/177 | |
|----------------------------------------|------------------------------|------------|--------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 132SD-D | Siemens 160M | Siemens 160M | Siemens 160L | |
| | Motor eléctrico | MGE 132SD | MMGE 160M | MMGE 160MX | MMGE 160L | |
| Datos generales NB/NK | P ₂ | [kW] | 7.5 | 11 | 15 | 18.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 | 65 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 200 | 200 | 200 | 200 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| | L NK | [mm] | 941/1031 | 1065/1148 | 1065/1148 | 1105/1188 |
| | L NKE | [mm] | 941/1031 | 1036/1119 | 1048/1131 | 1086/1169 |
| | Peso NK | [kg] | 160/157 | 205/199 | 214/208 | 234/228 |
| | Peso NKE | [kg] | 170/167 | 253/247 | 282/276 | 313/307 |
| | Peso NK SS | [kg] | 163/160 | 208/203 | 217/212 | 237/232 |
| Datos NK | Peso NKE SS | [kg] | 173/170 | 256/251 | 285/280 | 316/311 |
| | l ₁ | [mm] | 1120 | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 190 | 205 | 205 | 205 |
| | l ₃ | [mm] | 740 | 840 | 840 | 840 |
| | b ₁ | [mm] | 380 | 430 | 430 | 430 |
| | b ₂ | [mm] | 490 | 540 | 540 | 540 |
| | b ₃ | [mm] | 440 | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 245 | 245 | 245 |
| Datos NB | h ₄ ¹⁾ | [mm] | 374/428 | 442/604 | 442/622 | 442/622 |
| | Número de bancada | | 5 | 6 | 6 | 6 |
| | Diseño | | A | B ²⁾ | B ²⁾ | B ²⁾ |
| | L NB | [mm] | 313 | 343 | 343 | 343 |
| | L NB SS | [mm] | 313 | 343 | 343 | 343 |
| | h ₁ | [mm] | 160 | - | - | - |
| | G ₁ | [mm] | 127 | 127 | 127 | 127 |
| | G ₂ | [mm] | 161 | 161 | 161 | 161 |
| | m ₁ | [mm] | 125 | - | - | - |
| | m ₂ | [mm] | 95 | - | - | - |
| | n ₁ | [mm] | 280 | - | - | - |
| | n ₂ | [mm] | 212 | - | - | - |
| | b | [mm] | 65 | - | - | - |
| | s ₁ | [mm] | M12 | - | - | - |
| | H | [mm] | - | 160 | 160 | 160 |
| | LB ¹⁾ | [mm] | 391/391 | 478/449 | 478/461 | 518/499 |
| | AD ¹⁾ | [mm] | 134/188 | 197/359 | 197/377 | 197/377 |
| | AG ¹⁾ | [mm] | 202/290 | 165/296 | 165/296 | 165/296 |
| | LL ¹⁾ | [mm] | 103/300 | 165/410 | 165/410 | 165/410 |
| P | [mm] | 300 | 350 | 350 | 350 | |
| C | [mm] | - | 108 | 108 | 108 | |
| B | [mm] | - | 210 | 210 | 254 | |
| A | [mm] | - | 254 | 254 | 254 | |
| K | [mm] | - | 15 | 15 | 15 | |
| Peso NB ¹⁾ | [kg] | 85/95 | 122/170 | 131/199 | 151/230 | |
| Peso NB SS ¹⁾ | [kg] | 90/99 | 126/174 | 135/203 | 155/234 | |

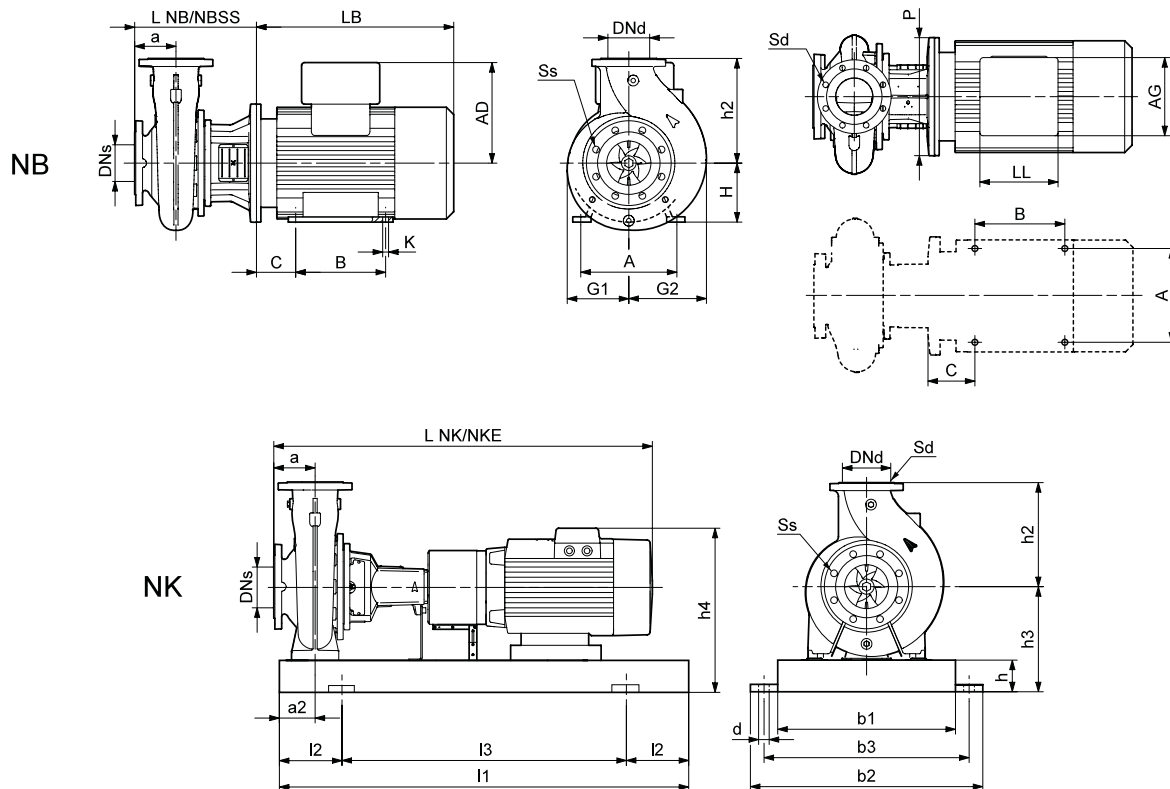
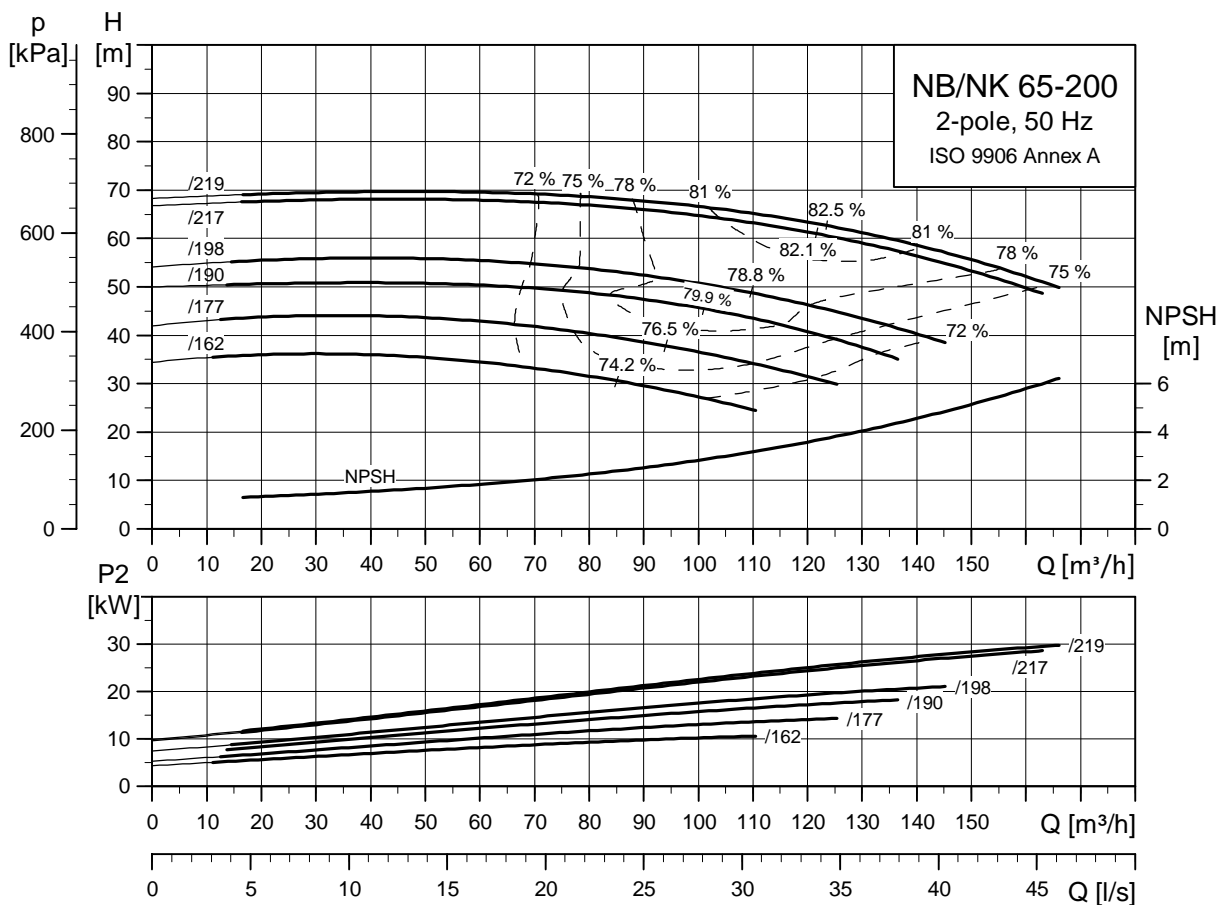
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 65-200
2 polos



TM03 5100 4106

TM03 4181 4106

TM03 6005 4106

| Tipo de bomba | | 65-200/162 | 65-200/177 | 65-200/190 | 65-200/198 | 65-200/217 | 65-200/219 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|--------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160M | Siemens 160M | Siemens 160L | Siemens 180M | Siemens 200L | Siemens 200L | |
| | Motor eléctrico | MMGE 160M | MMGE 160MX | MMGE 160L | MMGE 180M | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 11 | 15 | 18.5 | 22 | 30 | 37 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 | 65 | 65 | 65 |
| | a | [mm] | 100 | 100 | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 225 | 225 | 225 | 225 | 225 | 225 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1065/1188 | 1065/1188 | 1105/1228 | 1197/1312 | 1254/1369 | 1254/1369 |
| | L NKE | [mm] | 1036/1159 | 1048/1171 | 1086/1209 | 1120/1235 | -/- | -/- |
| | Peso NK | [kg] | 218/213 | 227/222 | 247/242 | 276/268 | 420/415 | 420/415 |
| | Peso NKE | [kg] | 266/261 | 295/290 | 326/321 | 357/349 | -/- | -/- |
| | Peso NK SS | [kg] | 224/218 | 233/227 | 253/247 | 282/273 | 426/420 | 426/420 |
| | Peso NKE SS | [kg] | 272/266 | 301/295 | 332/326 | 363/354 | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 | 1600 | 1600 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 | 270 | 270 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 | 1060 | 1060 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 | 530 | 530 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 | 660 | 660 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 | 600 | 600 |
| | d | [mm] | 24 | 24 | 24 | 24 | 28 | 28 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 | 100 | 100 |
| | h ₃ | [mm] | 260 | 260 | 260 | 265 | 305 | 305 |
| | h ₄ ¹⁾ | [mm] | 457/619 | 457/637 | 457/637 | 523/664 | 610/- | 610/- |
| Número de bancada | | 6 | 6 | 6 | 6 | 8 | 8 | |
| Datos NB | Diseño | | B ²⁾ | B ²⁾ | B ²⁾ | B | B ²⁾ | B ²⁾ |
| | L NB | [mm] | 343 | 343 | 343 | 343 | 343 | 343 |
| | L NB SS | [mm] | 343 | 343 | 343 | 343 | 343 | 343 |
| | h ₁ | [mm] | - | - | - | - | - | - |
| | G ₁ | [mm] | 149 | 149 | 149 | 149 | 149 | 149 |
| | G ₂ | [mm] | 173 | 173 | 173 | 173 | 173 | 173 |
| | m ₁ | [mm] | - | - | - | - | - | - |
| | m ₂ | [mm] | - | - | - | - | - | - |
| | n ₁ | [mm] | - | - | - | - | - | - |
| | n ₂ | [mm] | - | - | - | - | - | - |
| | b | [mm] | - | - | - | - | - | - |
| | s ₁ | [mm] | - | - | - | - | - | - |
| | H | [mm] | 160 | 160 | 160 | 180 | 200 | 200 |
| | LB ¹⁾ | [mm] | 478/449 | 478/461 | 518/499 | 602/525 | 659/- | 659/- |
| | AD ¹⁾ | [mm] | 197/359 | 197/377 | 197/377 | 258/399 | 305/- | 305/- |
| | AG ¹⁾ | [mm] | 165/296 | 165/296 | 165/296 | 152/328 | 260/- | 260/- |
| | LL ¹⁾ | [mm] | 165/410 | 165/410 | 165/410 | 132/456 | 192/- | 192/- |
| | P | [mm] | 350 | 350 | 350 | 350 | 400 | 400 |
| | C | [mm] | 108 | 108 | 108 | 121 | 133 | 133 |
| | B | [mm] | 210 | 210 | 254 | 241 | 305 | 305 |
| A | [mm] | 254 | 254 | 254 | 279 | 318 | 318 | |
| K | [mm] | 15 | 15 | 15 | 15 | 19 | 19 | |
| Peso NB ¹⁾ | [kg] | 129/177 | 138/206 | 158/237 | 187/268 | 275/- | 275/- | |
| Peso NB SS ¹⁾ | [kg] | 135/183 | 144/212 | 164/243 | 193/274 | 280/- | 280/- | |

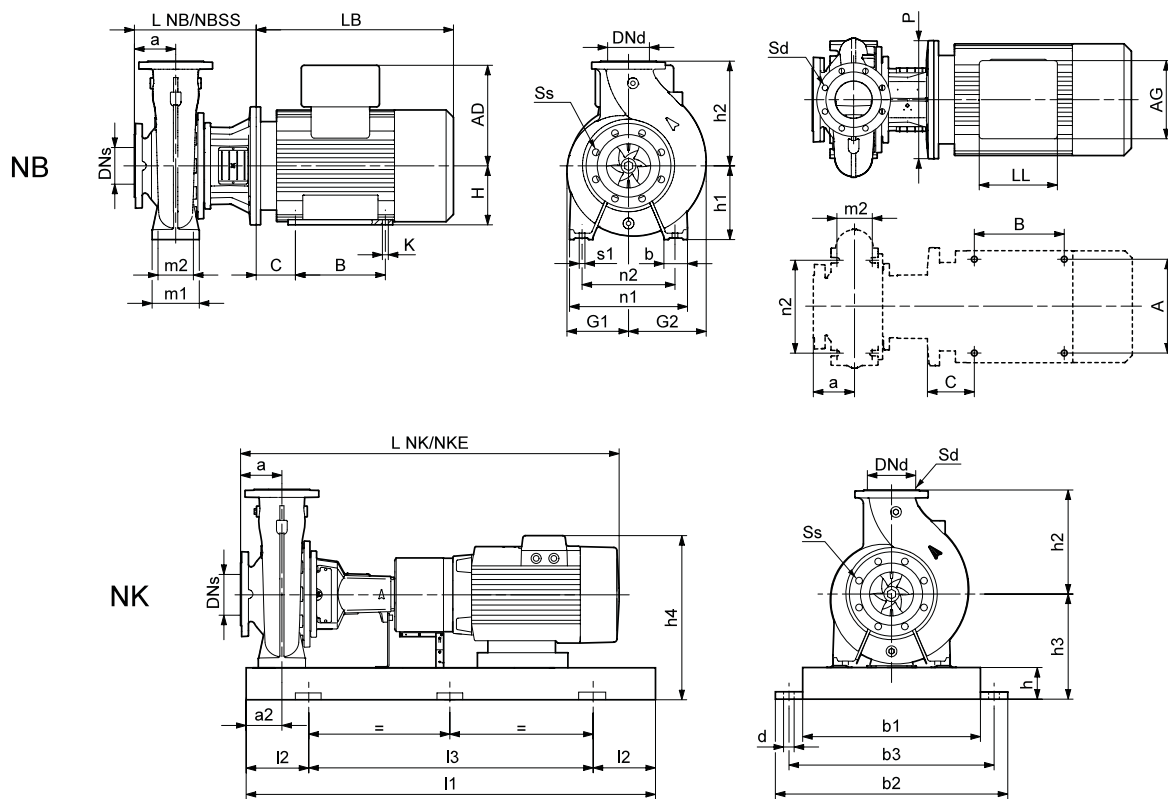
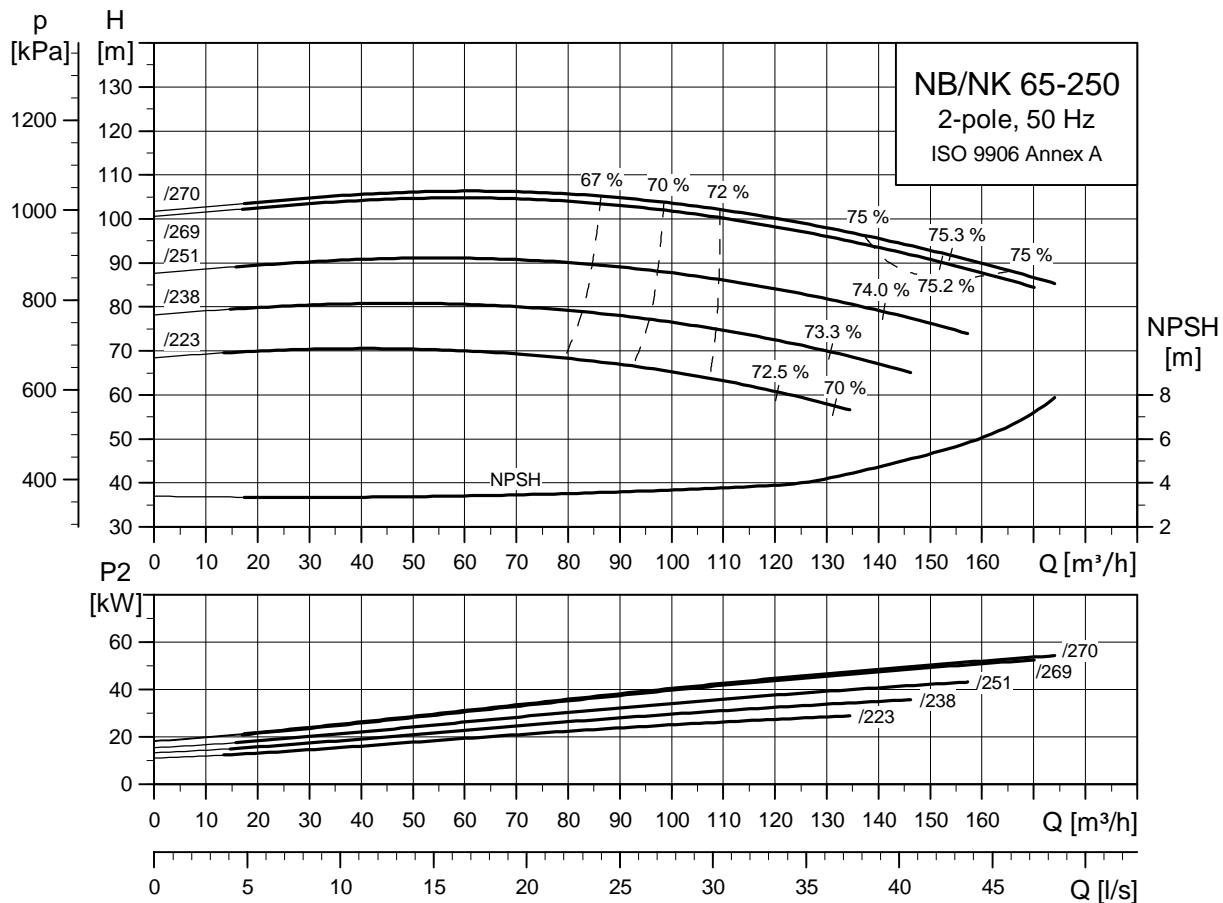
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 65-250
2 polos



TM03 5101 4106

TM03 4182 4106

TM03 4179 1806

| Tipo de bomba | | 65-250/223 | 65-250/238 | 65-250/251 | 65-250/269 | 65-250/270 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 200L | Siemens 200L | Siemens 225M | Siemens 250M | Siemens 280S | |
| | Motor eléctrico | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 30 | 37 | 45 | 55 | 75 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 | 65 | 65 |
| | a | [mm] | 100 | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 250 | 250 | 250 | 250 | 250 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1343/1479 | 1343/1479 | 1393/1529 | 1461/1597 | 1534/1670 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 465/460 | 465/460 | 588/582 | 718/713 | 976/974 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | 464/458 | 464/458 | 586/581 | 717/712 | 974/973 |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1600 | 1600 | 1600 | 1800 | 2000 |
| | l ₂ | [mm] | 270 | 270 | 270 | 300 | 330 |
| | l ₃ | [mm] | 1060 | 1060 | 1060 | 1200 | 1340 |
| | b ₁ | [mm] | 530 | 530 | 530 | 600 | 750 |
| | b ₂ | [mm] | 660 | 660 | 660 | 730 | 890 |
| | b ₃ | [mm] | 600 | 600 | 600 | 670 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 | 130 |
| | h ₃ | [mm] | 305 | 305 | 330 | 360 | 415 |
| | h ₄ ¹⁾ | [mm] | 610/- | 610/- | 655/- | 752/- | 847/- |
| Número de bancada | | 8 | 8 | 8 | 9 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 373 | 373 | 403 | 403 | 403 |
| | L NB SS | [mm] | 373 | 373 | 403 | 403 | 403 |
| | h ₁ | [mm] | 200 | 200 | 200 | 200 | 200 |
| | G ₁ | [mm] | 183 | 183 | 183 | 183 | 183 |
| | G ₂ | [mm] | 200 | 200 | 200 | 200 | 200 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 360 | 360 | 360 | 360 | 360 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 | 280 |
| | b | [mm] | 80 | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 | M16 |
| | H | [mm] | 200 | 200 | 225 | 250 | 280 |
| | LB ¹⁾ | [mm] | 659/- | 659/- | 709/- | 747/- | 820/- |
| | AD ¹⁾ | [mm] | 305/- | 305/- | 325/- | 392/- | 432/- |
| | AG ¹⁾ | [mm] | 260/- | 260/- | 260/- | 300/- | 300/- |
| | LL ¹⁾ | [mm] | 192/- | 192/- | 192/- | 236/- | 236/- |
| | P | [mm] | 400 | 400 | 450 | 550 | 550 |
| | C | [mm] | 133 | 133 | 149 | 168 | 190 |
| | B | [mm] | 305 | 305 | 311 | 349 | 368 |
| | A | [mm] | 318 | 318 | 356 | 406 | 457 |
| | K | [mm] | 19 | 19 | 19 | 24 | 24 |
| Peso NB ¹⁾ | [kg] | 318/- | 318/- | 442/- | 548/- | 658/- | |
| Peso NB SS ¹⁾ | [kg] | 320/- | 320/- | 444/- | 546/- | 656/- | |

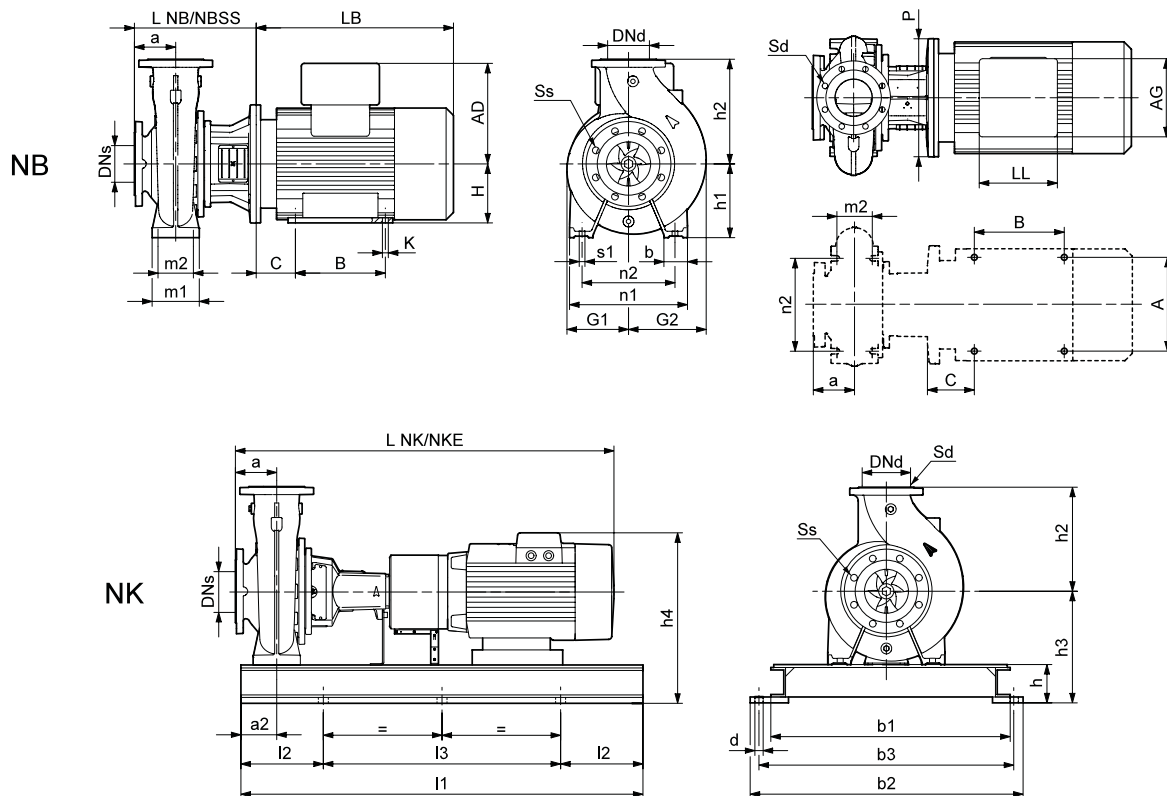
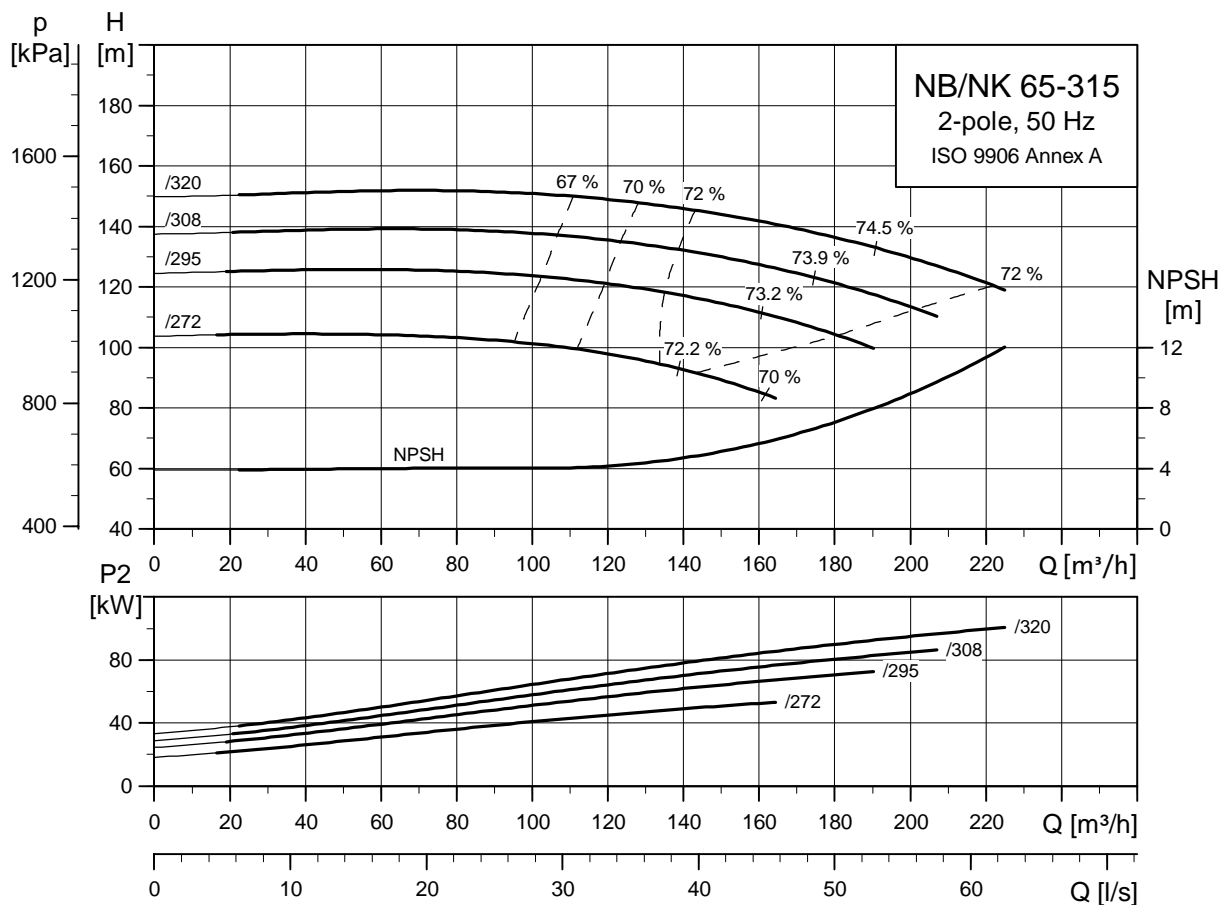
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 65-315
2 polos



TM03 5102 4106

TM03 4182 4106

TM03 4051 1806

| Tipo de bomba | | 65-315/272 | 65-315/295 | 65-315/308 | 65-315/320 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 250M | Siemens 280S | Siemens 280M | Siemens 315S | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 55 | 75 | 90 | 110 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 | 65 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1486/1622 | 1559/1695 | 1669/1805 | 1671/1807 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 726/721 | 988/986 | 1073/1072 | 1260/1259 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | 732/727 | 994/993 | 1080/1078 | 1266/1265 |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1800 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 300 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1200 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 600 | 750 | 750 | 750 |
| | b ₂ | [mm] | 730 | 890 | 890 | 890 |
| | b ₃ | [mm] | 670 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 130 | 130 | 130 |
| | h ₃ | [mm] | 355 | 415 | 415 | 455 |
| | h ₄ ¹⁾ | [mm] | 747/- | 847/- | 847/- | 950/- |
| Número de bancada | | 9 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 428 | 428 | 428 | 458 |
| | L NB SS | [mm] | 428 | 428 | 428 | 458 |
| | h ₁ | [mm] | 225 | 225 | 225 | 225 |
| | G ₁ | [mm] | 211 | 211 | 211 | 211 |
| | G ₂ | [mm] | 219 | 219 | 219 | 219 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | 250 | 280 | 280 | 315 |
| | LB ¹⁾ | [mm] | 747/- | 820/- | 930/- | 932/- |
| | AD ¹⁾ | [mm] | 392/- | 432/- | 432/- | 495/- |
| | AG ¹⁾ | [mm] | 300/- | 300/- | 300/- | 379/- |
| | LL ¹⁾ | [mm] | 236/- | 236/- | 236/- | 307/- |
| | P | [mm] | 550 | 550 | 550 | 660 |
| | C | [mm] | 168 | 190 | 190 | 216 |
| | B | [mm] | 349 | 368 | 419 | 406 |
| | A | [mm] | 406 | 457 | 457 | 508 |
| K | [mm] | 24 | 24 | 24 | 28 | |
| Peso NB ¹⁾ | [kg] | 560/- | 670/- | 755/- | 968/- | |
| Peso NB SS ¹⁾ | [kg] | 566/- | 676/- | 761/- | 974/- | |

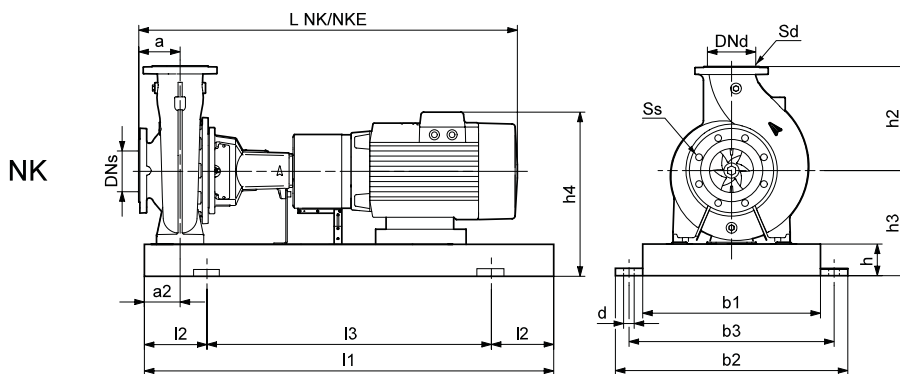
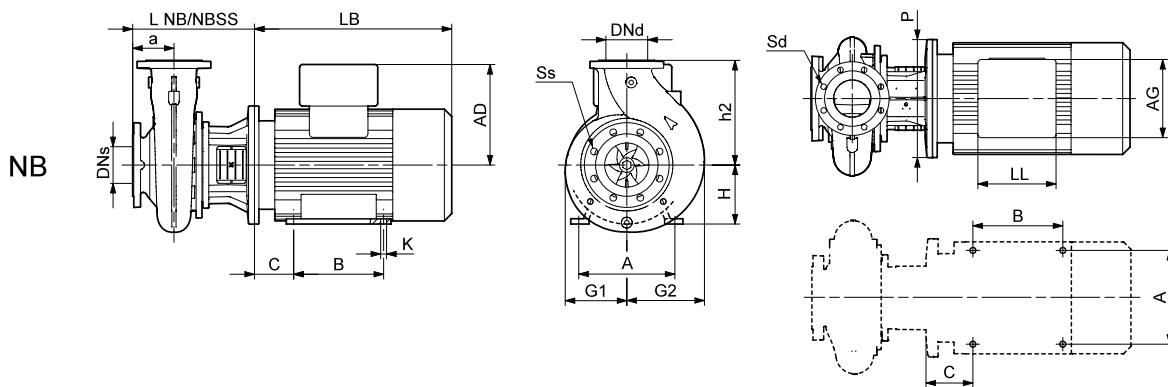
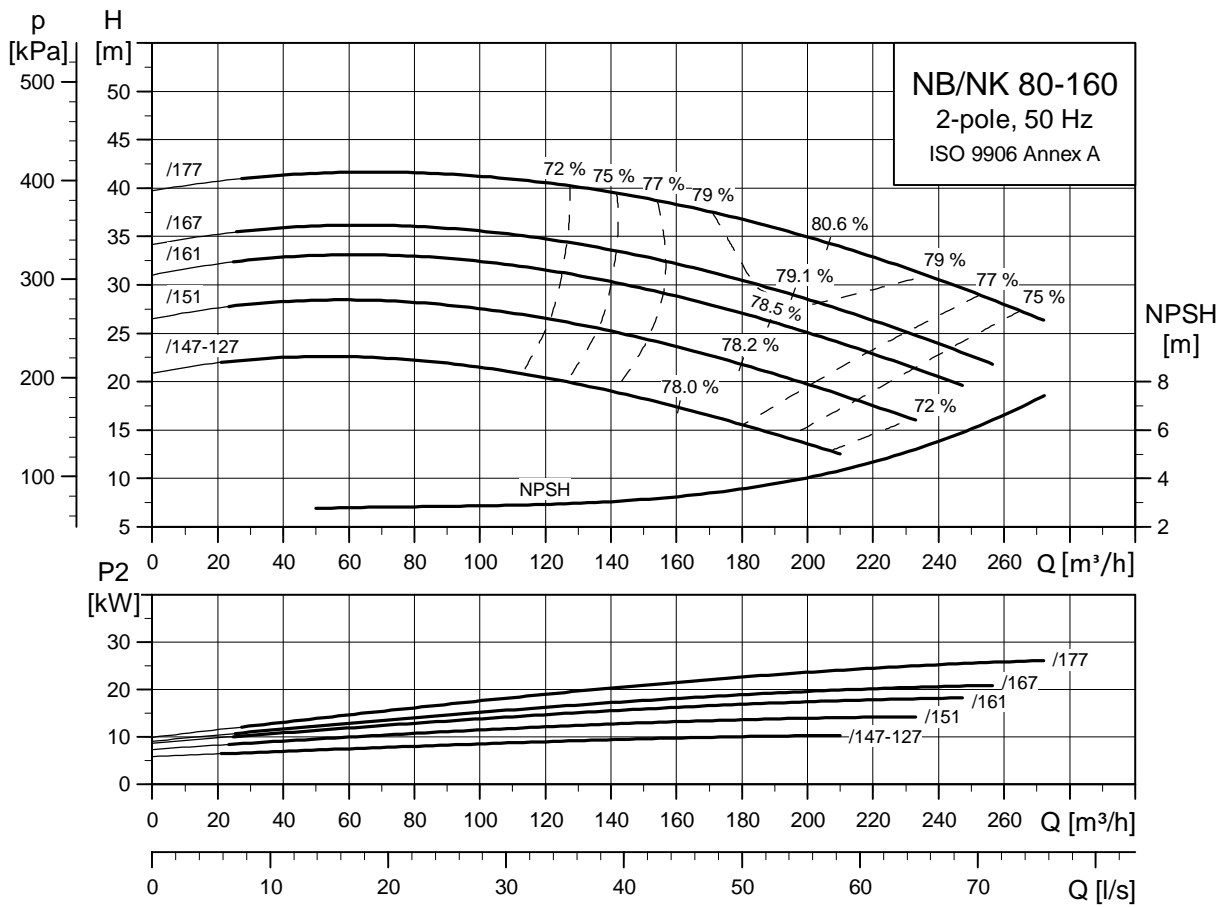
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 80-160
2 polos



TM03 5103 4106

TM03 4181 4106

TM03 6005 4106

| Tipo de bomba | | 80-160/147-127 | 80-160/151 | 80-160/161 | 80-160/167 | 80-160/177 | |
|----------------------------------------|------------------------------|----------------|-----------------|-----------------|-----------------|--------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160M | Siemens 160M | Siemens 160L | Siemens 180M | Siemens 200L | |
| | Motor eléctrico | MMGE 160M | MMGE 160MX | MMGE 160L | MMGE 180M | - | |
| Datos generales NB/NK | P ₂ | [kW] | 11 | 15 | 18,5 | 22 | 30 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 100 | 100 | 100 | 100 | 100 |
| | DNd | [mm] | 80 | 80 | 80 | 80 | 80 |
| | a | [mm] | 125 | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 225 | 225 | 225 | 225 | 225 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| | L NK | [mm] | 1090/1213 | 1090/1213 | 1130/1253 | 1222/1337 | 1279/1394 |
| | L NKE | [mm] | 1061/1184 | 1073/1196 | 1111/1234 | 1145/1260 | -/- |
| | Peso NK | [kg] | 218/212 | 227/221 | 247/241 | 276/267 | 420/414 |
| | Peso NKE | [kg] | 266/260 | 295/289 | 326/320 | 357/348 | -/- |
| | Peso NK SS | [kg] | 224/219 | 233/228 | 253/248 | 282/273 | 426/420 |
| Datos NK | Peso NKE SS | [kg] | 272/267 | 301/296 | 332/327 | 363/354 | -/- |
| | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 | 1600 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 | 270 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 | 1060 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 | 530 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 | 660 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 | 600 |
| | d | [mm] | 24 | 24 | 24 | 24 | 28 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 | 100 |
| | h ₃ | [mm] | 260 | 260 | 260 | 265 | 305 |
| Datos NB | h ₄ ¹⁾ | [mm] | 457/619 | 457/637 | 457/637 | 523/664 | 610/- |
| | Número de bancada | | 6 | 6 | 6 | 6 | 8 |
| | Diseño | | B ²⁾ | B ²⁾ | B ²⁾ | B | B ²⁾ |
| | L NB | [mm] | 368 | 368 | 368 | 368 | 368 |
| | L NB SS | [mm] | 368 | 368 | 368 | 368 | 368 |
| | h ₁ | [mm] | - | - | - | - | - |
| | G ₁ | [mm] | 139 | 139 | 139 | 139 | 139 |
| | G ₂ | [mm] | 182 | 182 | 182 | 182 | 182 |
| | m ₁ | [mm] | - | - | - | - | - |
| | m ₂ | [mm] | - | - | - | - | - |
| | n ₁ | [mm] | - | - | - | - | - |
| | n ₂ | [mm] | - | - | - | - | - |
| | b | [mm] | - | - | - | - | - |
| | s ₁ | [mm] | - | - | - | - | - |
| | H | [mm] | 160 | 160 | 160 | 180 | 200 |
| | LB ¹⁾ | [mm] | 478/449 | 478/461 | 518/499 | 602/525 | 659/- |
| | AD ¹⁾ | [mm] | 197/359 | 197/377 | 197/377 | 258/399 | 305/- |
| | AG ¹⁾ | [mm] | 165/296 | 165/296 | 165/296 | 152/328 | 260/- |
| | LL ¹⁾ | [mm] | 165/410 | 165/410 | 165/410 | 132/456 | 192/- |
| | P | [mm] | 350 | 350 | 350 | 350 | 400 |
| C | [mm] | 108 | 108 | 108 | 121 | 133 | |
| B | [mm] | 210 | 210 | 254 | 241 | 305 | |
| A | [mm] | 254 | 254 | 254 | 279 | 318 | |
| K | [mm] | 15 | 15 | 15 | 15 | 19 | |
| Peso NB ¹⁾ | [kg] | 130/178 | 139/207 | 159/238 | 188/269 | 277/- | |
| Peso NB SS ¹⁾ | [kg] | 135/183 | 144/212 | 164/243 | 193/274 | 280/- | |

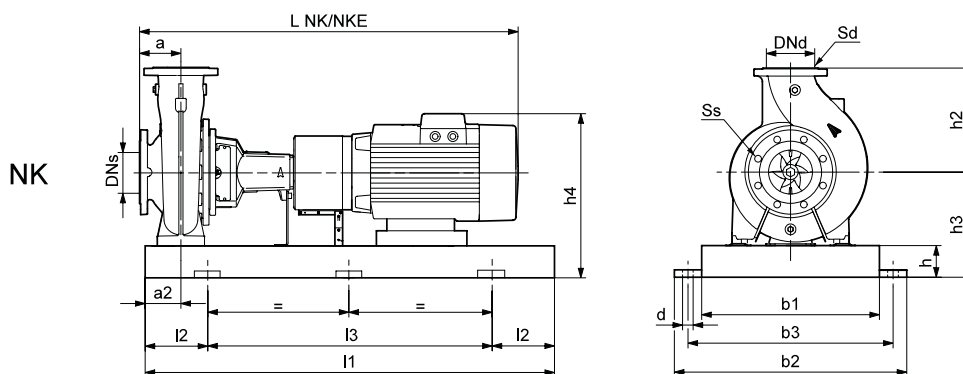
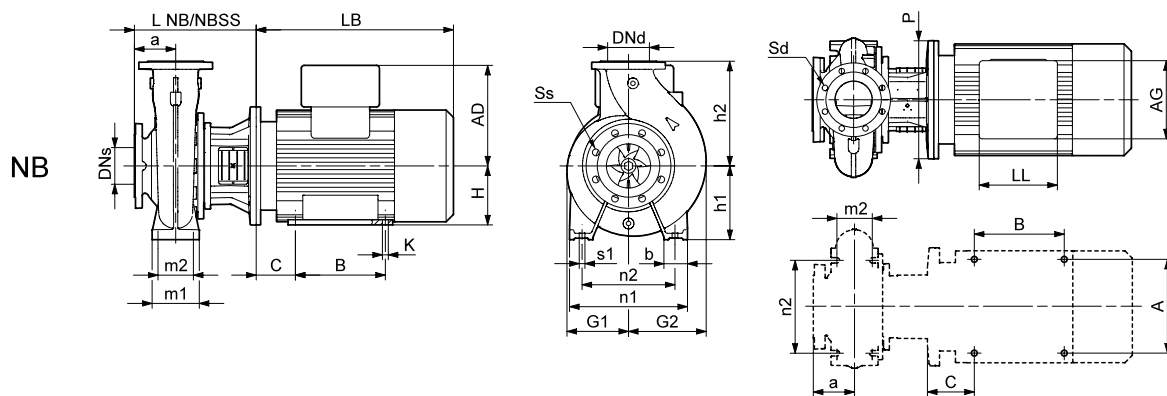
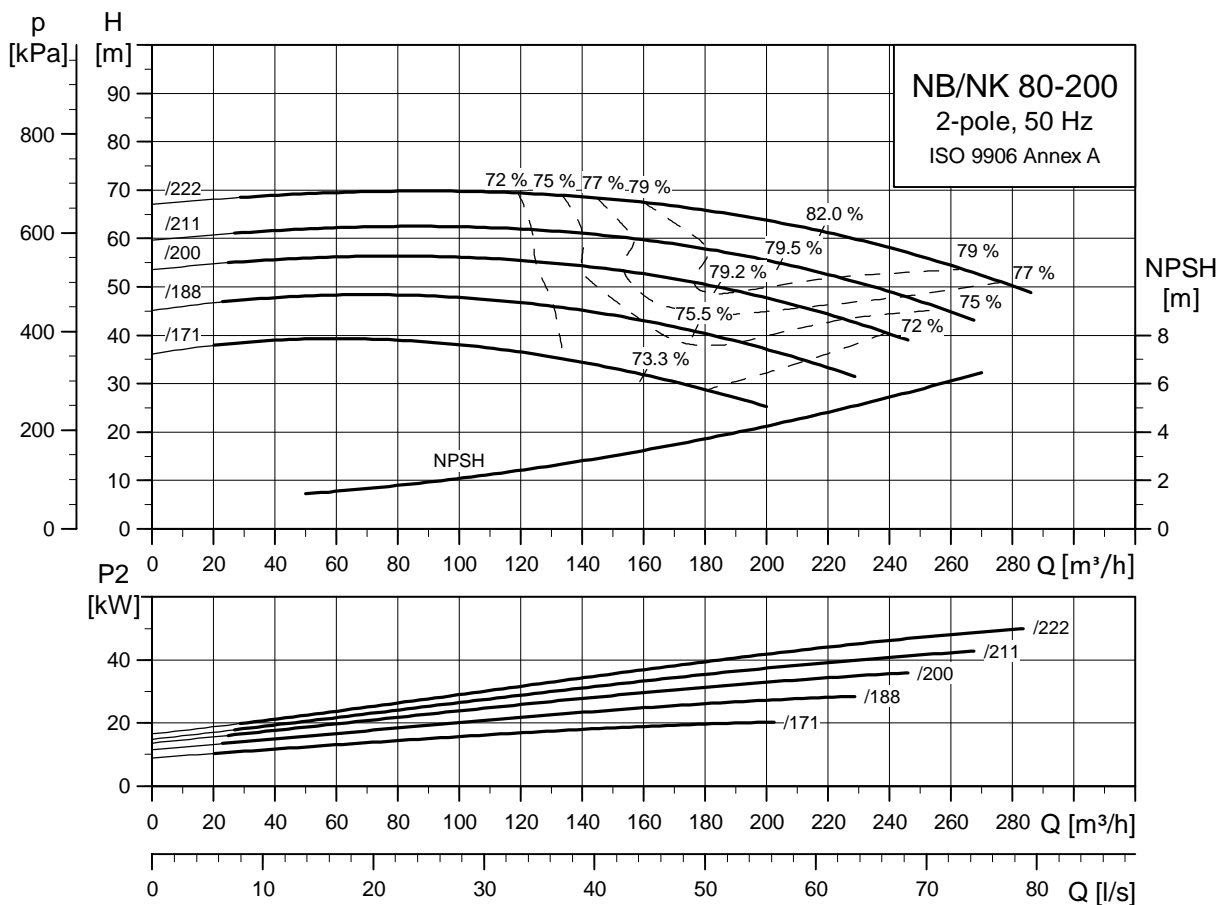
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 80-200
2 polos



TM03 5104 4106

TM03 4182 4106

TM03 4179 1806

| Tipo de bomba | | 80-200/171 | 80-200/188 | 80-200/200 | 80-200/211 | 80-200/222 | |
|----------------------------------------|--------------------|--------------|--------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 180M | Siemens 200L | Siemens 200L | Siemens 225M | Siemens 250M | |
| | Motor eléctrico | MMGE 180M | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 22 | 30 | 37 | 45 | 55 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 100 | 100 | 100 | 100 | 100 |
| | DNd | [mm] | 80 | 80 | 80 | 80 | 80 |
| | a | [mm] | 125 | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 250 | 250 | 250 | 250 | 250 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1311/1447 | 1368/1504 | 1368/1504 | 1418/1554 | 1486/1622 |
| | L NKE | [mm] | 1234/1370 | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 309/301 | 454/448 | 454/448 | 569/563 | 696/691 |
| | Peso NKE | [kg] | 390/382 | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | 316/307 | 460/454 | 460/454 | 575/569 | 702/698 |
| Peso NKE SS | [kg] | 397/388 | -/- | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 1250 | 1600 | 1600 | 1600 | 1800 |
| | l ₂ | [mm] | 205 | 270 | 270 | 270 | 300 |
| | l ₃ | [mm] | 840 | 1060 | 1060 | 1060 | 1200 |
| | b ₁ | [mm] | 430 | 530 | 530 | 530 | 600 |
| | b ₂ | [mm] | 540 | 660 | 660 | 660 | 730 |
| | b ₃ | [mm] | 490 | 600 | 600 | 600 | 670 |
| | d | [mm] | 24 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 265 | 305 | 305 | 330 | 355 |
| h ₄ ¹⁾ | [mm] | 523/664 | 610/- | 610/- | 655/- | 747/- | |
| Número de bancada | | 6 | 8 | 8 | 8 | 9 | |
| Datos NB | Diseño | | C | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 398 | 398 | 398 | 428 | 428 |
| | L NB SS | [mm] | 398 | 398 | 398 | 428 | 428 |
| | h ₁ | [mm] | 180 | 180 | 180 | 180 | 180 |
| | G ₁ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | G ₂ | [mm] | 193 | 193 | 193 | 193 | 193 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 345 | 345 | 345 | 345 | 345 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 | 280 |
| | b | [mm] | 65 | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 | M12 |
| | H | [mm] | 180 | 200 | 200 | 225 | 250 |
| | LB ¹⁾ | [mm] | 602/525 | 659/- | 659/- | 709/- | 747/- |
| | AD ¹⁾ | [mm] | 258/399 | 305/- | 305/- | 325/- | 392/- |
| | AG ¹⁾ | [mm] | 152/328 | 260/- | 260/- | 260/- | 300/- |
| | LL ¹⁾ | [mm] | 132/456 | 192/- | 192/- | 192/- | 236/- |
| | P | [mm] | 350 | 400 | 400 | 450 | 550 |
| | C | [mm] | 121 | 133 | 133 | 149 | 168 |
| | B | [mm] | 241 | 305 | 305 | 311 | 349 |
| A | [mm] | 279 | 318 | 318 | 356 | 406 | |
| K | [mm] | 15 | 19 | 19 | 19 | 24 | |
| Peso NB ¹⁾ | [kg] | 212/293 | 302/- | 302/- | 427/- | 533/- | |
| Peso NB SS ¹⁾ | [kg] | 223/304 | 313/- | 313/- | 437/- | 539/- | |

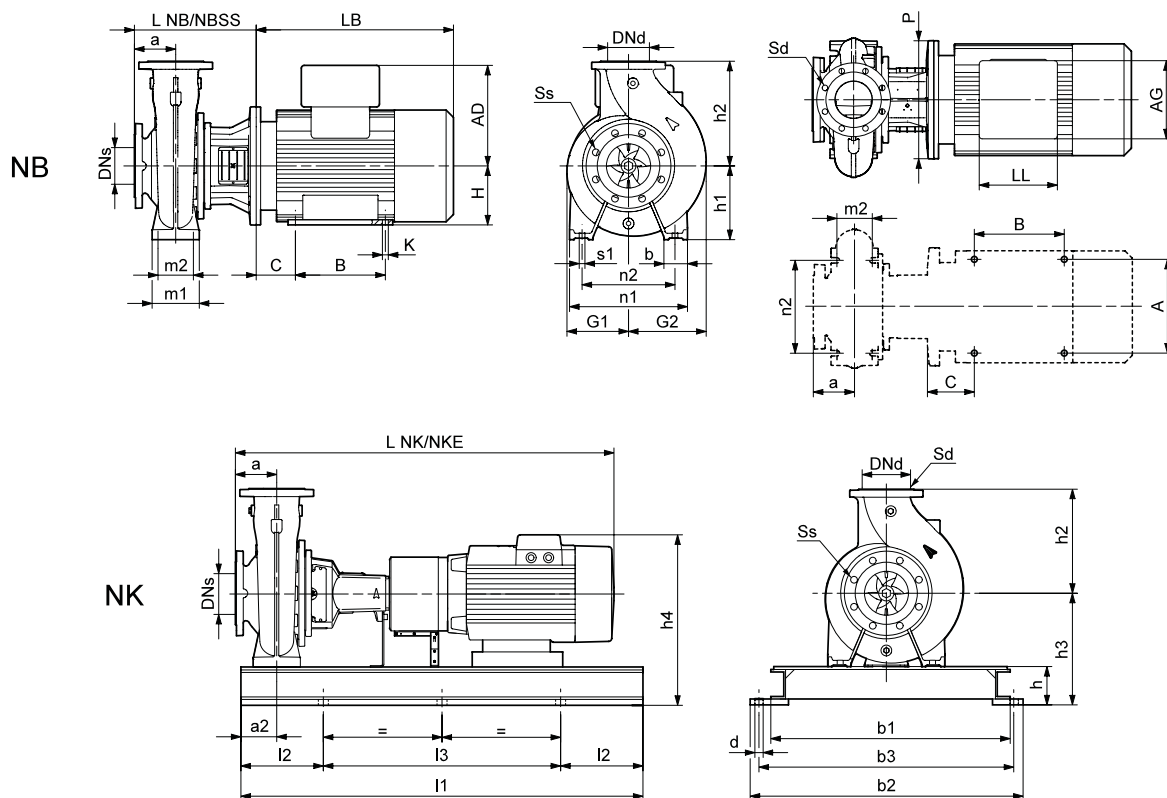
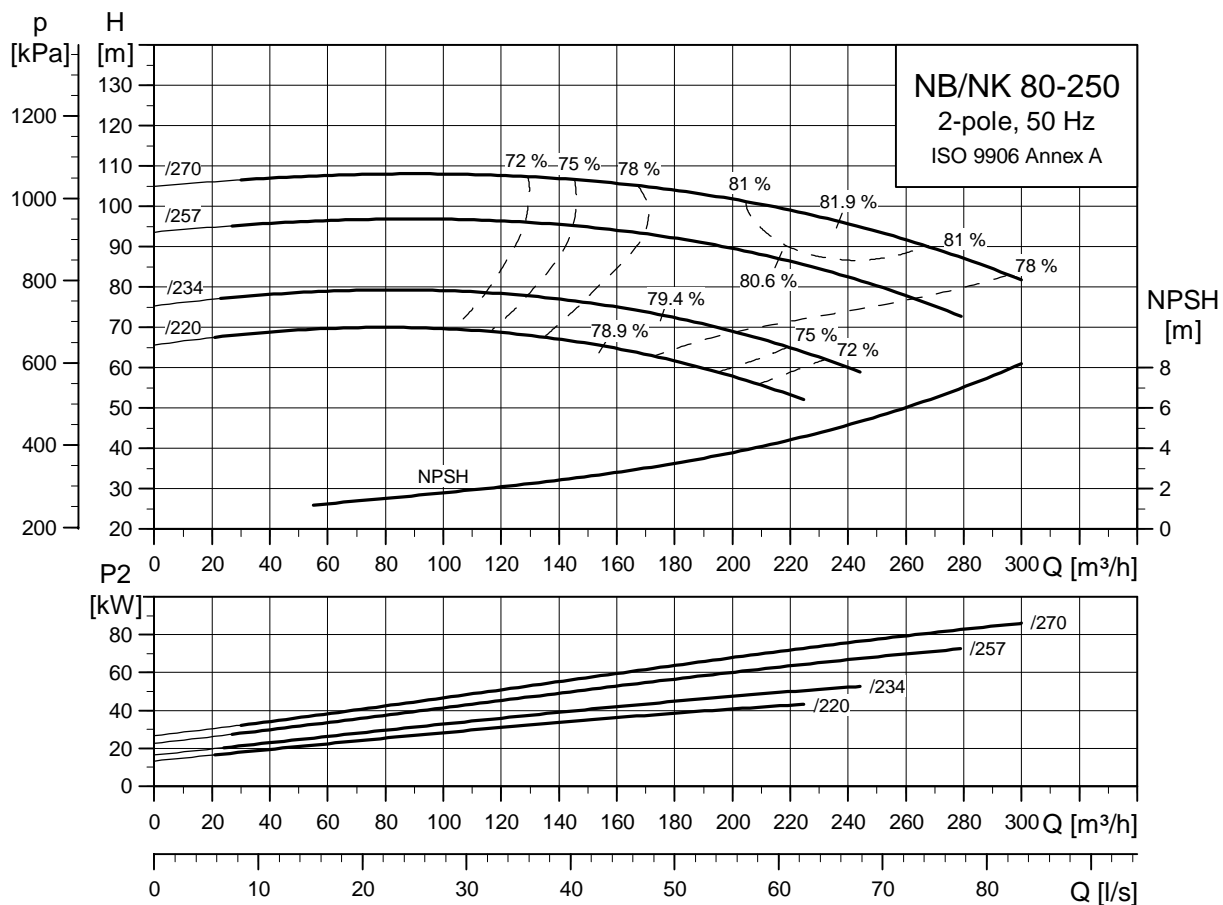
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 80-250
2 polos



TM03 5105 4106

TM03 4182 4106

TM03 4051 1806

| Tipo de bomba | | 80-250/220 | 80-250/234 | 80-250/257 | 80-250/270 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 225M | Siemens 250M | Siemens 280S | Siemens 280M | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 45 | 55 | 75 | 90 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 100 | 100 | 100 | 100 |
| | DNd | [mm] | 80 | 80 | 80 | 80 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1418/1554 | 1486/1622 | 1559/1695 | 1669/1805 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 592/586 | 722/717 | 979/978 | 1065/1063 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | 598/592 | 728/724 | 986/984 | 1071/1070 |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1600 | 1800 | 2000 | 2000 |
| | l ₂ | [mm] | 270 | 300 | 330 | 330 |
| | l ₃ | [mm] | 1060 | 1200 | 1340 | 1340 |
| | b ₁ | [mm] | 530 | 600 | 750 | 750 |
| | b ₂ | [mm] | 660 | 730 | 890 | 890 |
| | b ₃ | [mm] | 600 | 670 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 130 | 130 |
| | h ₃ | [mm] | 330 | 360 | 415 | 415 |
| | h ₄ ¹⁾ | [mm] | 655/- | 752/- | 847/- | 847/- |
| Número de bancada | | 8 | 9 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 428 | 428 | 428 | 428 |
| | L NB SS | [mm] | 428 | 428 | 428 | 428 |
| | h ₁ | [mm] | 200 | 200 | 200 | 200 |
| | G ₁ | [mm] | 182 | 182 | 182 | 182 |
| | G ₂ | [mm] | 210 | 210 | 210 | 210 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | 225 | 250 | 280 | 280 |
| | LB ¹⁾ | [mm] | 709/- | 747/- | 820/- | 930/- |
| | AD ¹⁾ | [mm] | 325/- | 392/- | 432/- | 432/- |
| | AG ¹⁾ | [mm] | 260/- | 300/- | 300/- | 300/- |
| | LL ¹⁾ | [mm] | 192/- | 236/- | 236/- | 236/- |
| | P | [mm] | 450 | 550 | 550 | 550 |
| | C | [mm] | 149 | 168 | 190 | 190 |
| | B | [mm] | 311 | 349 | 368 | 419 |
| | A | [mm] | 356 | 406 | 457 | 457 |
| K | [mm] | 19 | 24 | 24 | 24 | |
| Peso NB ¹⁾ | [kg] | 446/- | 552/- | 662/- | 747/- | |
| Peso NB SS ¹⁾ | [kg] | 456/- | 558/- | 668/- | 753/- | |

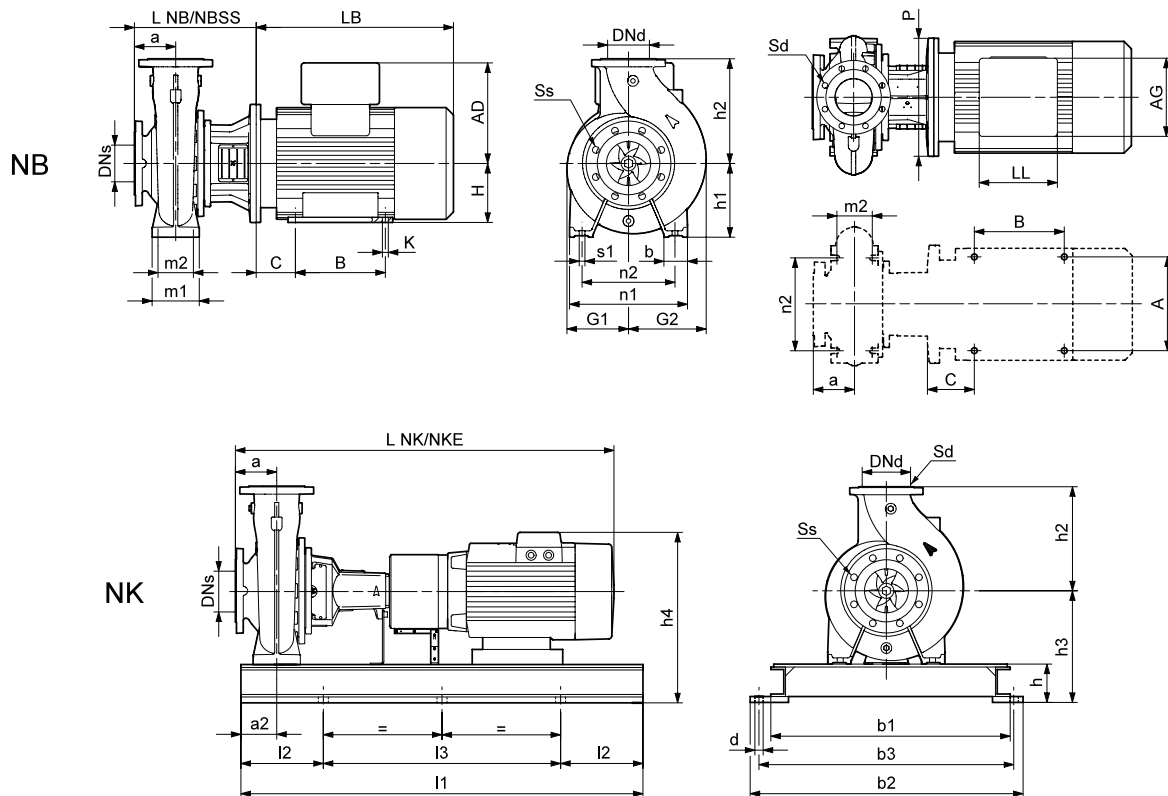
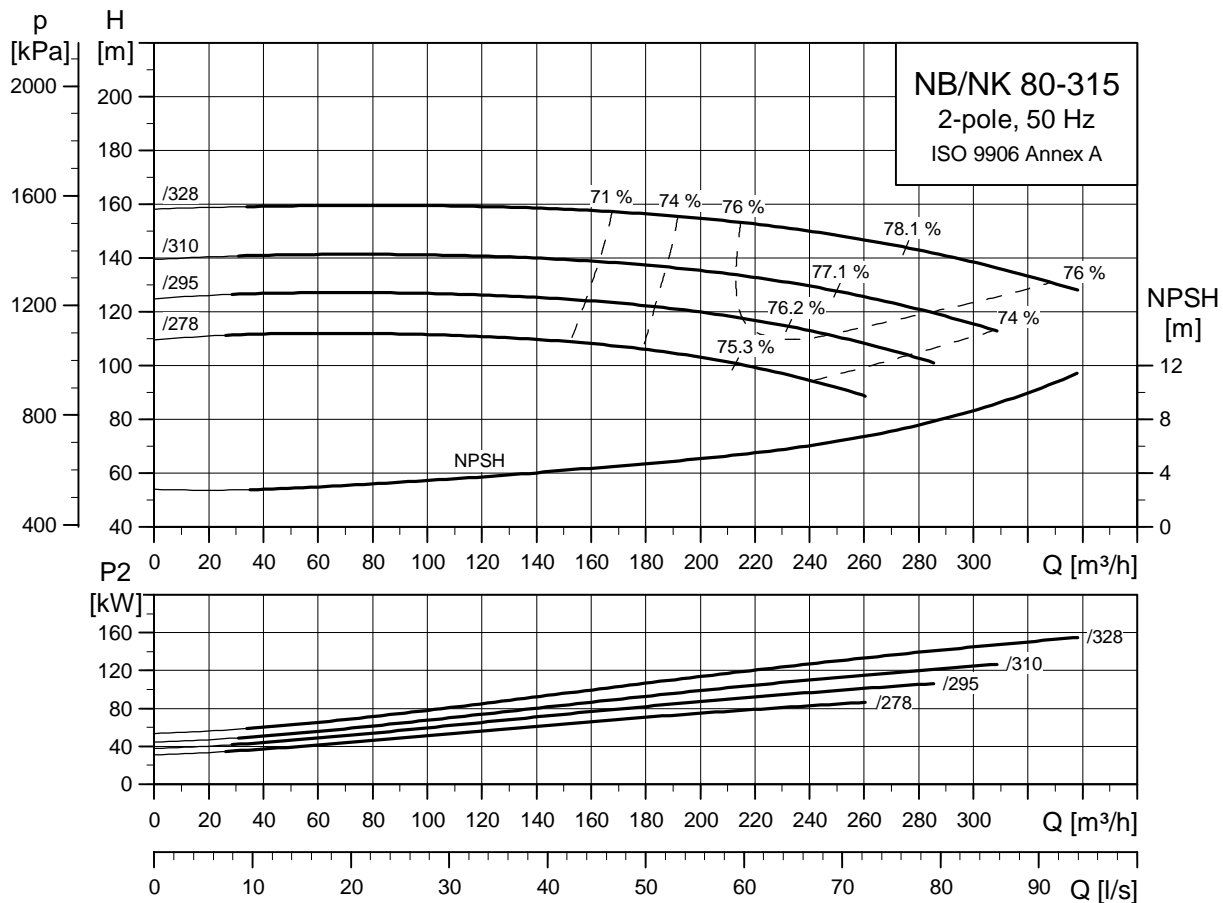
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 80-315
2 polos



TM03 5106 4106

TM03 4182 4106

TM03 4051 1806

| Tipo de bomba | | 80-315/278 | 80-315/295 | 80-315/310 | 80-315/328 ³⁾ | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|--------------------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 280M | Siemens 315S | Siemens 315M | Siemens 315L | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 90 | 110 | 132 | 160 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 100 | 100 | 100 | 100 |
| | DNd | [mm] | 80 | 80 | 80 | 80 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 315 | 315 | 315 | 315 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1669/1805 | 1671/1807 | 1831/1967 | 1891/2027 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 1087/1085 | 1262/1260 | 1387/1386 | 1554/1553 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | 1094/1093 | 1269/1268 | 1395/1394 | 1562/1561 |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 415 | 450 | 450 | 450 |
| | h ₄ ¹⁾ | [mm] | 847/- | 945/- | 945/- | 945/- |
| Número de bancada | | 10 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 428 | 458 | 458 | 458 |
| | L NB SS | [mm] | 428 | 458 | 458 | 458 |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 216 | 216 | 216 | 216 |
| | G ₂ | [mm] | 243 | 243 | 243 | 243 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | 280 | 315 | 315 | 315 |
| | LB ¹⁾ | [mm] | 930/- | 932/- | 1092/- | 1092/- |
| | AD ¹⁾ | [mm] | 432/- | 495/- | 495/- | 495/- |
| | AG ¹⁾ | [mm] | 300/- | 379/- | 379/- | 379/- |
| | LL ¹⁾ | [mm] | 236/- | 307/- | 307/- | 307/- |
| | P | [mm] | 550 | 660 | 660 | 660 |
| | C | [mm] | 190 | 216 | 216 | 216 |
| | B | [mm] | 419 | 406 | 457 | 508 |
| A | [mm] | 457 | 508 | 508 | 508 | |
| K | [mm] | 24 | 28 | 28 | 28 | |
| Peso NB ¹⁾ | [kg] | 765/- | 978/- | 1103/- | 1244/- | |
| Peso NB SS ¹⁾ | [kg] | 773/- | 986/- | 1111/- | 1252/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

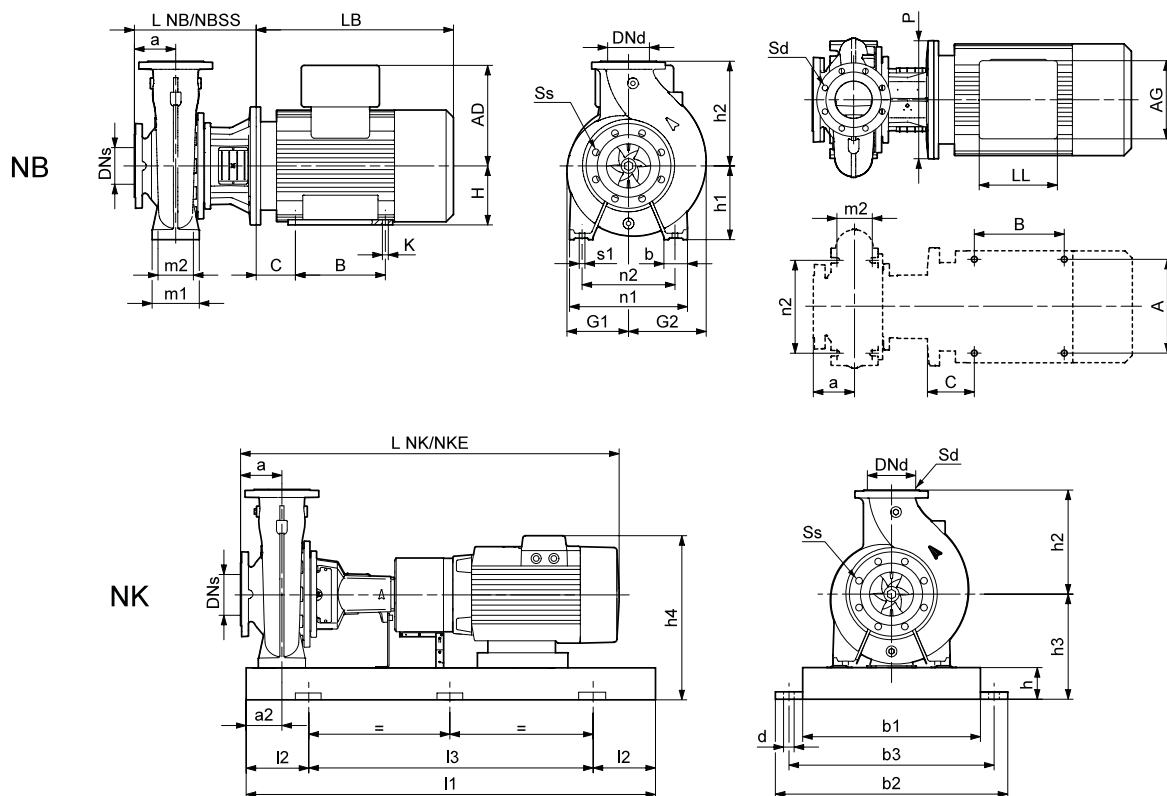
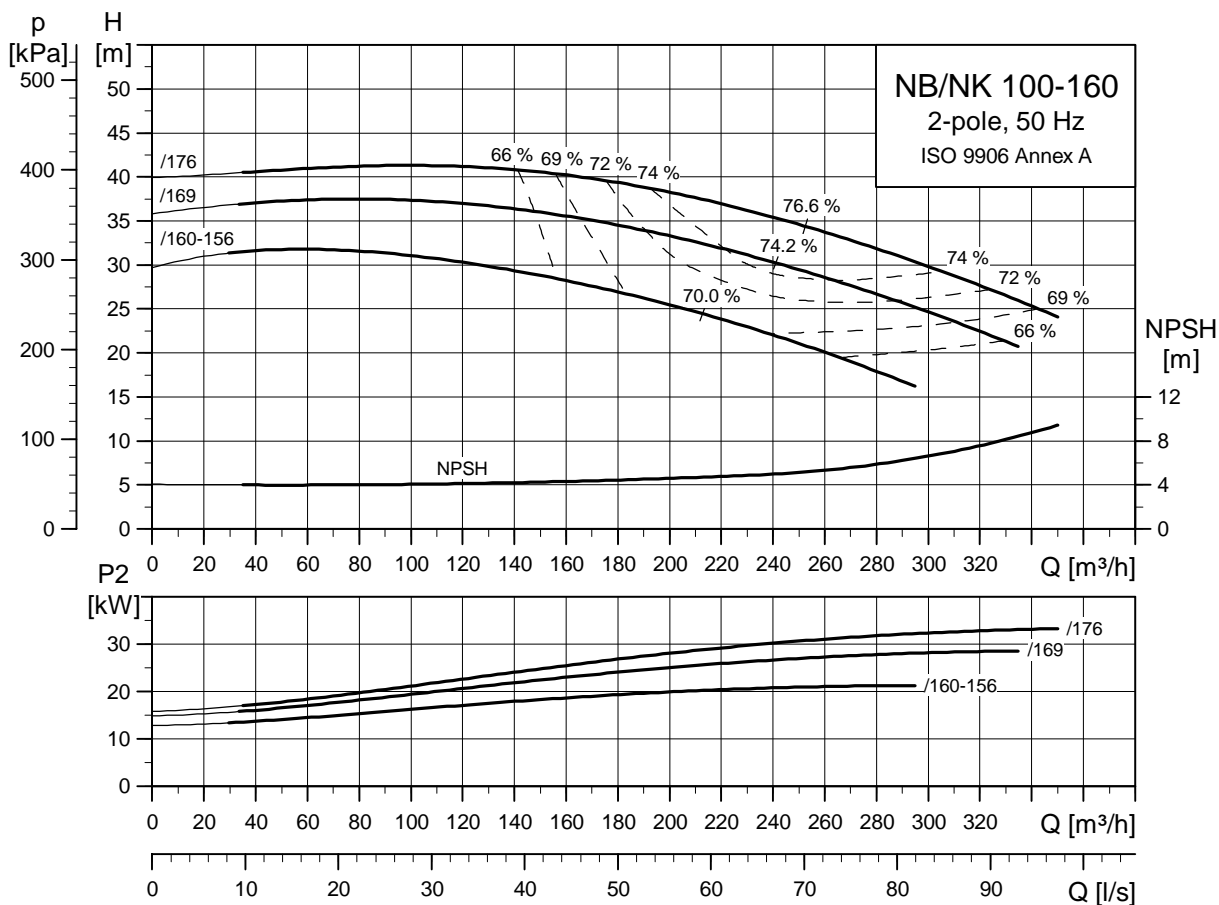
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NK 80-315/328 es sobredimensionada.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-160
2 polos



TM03 5107 4106

TM03 4182 4106

TM03 4179 1806

| Tipo de bomba | | 100-160/160-156 | 100-160/169 | 100-160/176 | | |
|----------------------------------------|------------------------------|------------------|-----------------|-----------------|-----------------|-------|
| Tipo de motor | Motor de gama alta | Siemens 180M | Siemens 200L | Siemens 200L | | |
| | Motor eléctrico | MMGE 180M | - | - | | |
| Datos generales NB/NK | P ₂ | [kW] | 22 | 30 | 37 | |
| | PN | [bar] | 16 | 16 | 16 | |
| | DNs | [mm] | 125 | 125 | 125 | |
| | DNd | [mm] | 100 | 100 | 100 | |
| | a | [mm] | 125 | 125 | 125 | |
| | h ₂ | [mm] | 280 | 280 | 280 | |
| | Ss | | 8x19 | 8x19 | 8x19 | |
| | Sd | | 8x19 | 8x19 | | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1222/1337 | 1279/1394 | 1279/1394 | |
| | L NKE | [mm] | 1145/1260 | -/- | -/- | |
| | Peso NK | [kg] | 304/295 | 439/433 | 439/433 | |
| | Peso NKE | [kg] | 385/376 | -/- | -/- | |
| | Peso NK SS | [kg] | -/- | -/- | -/- | |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 1250 | 1600 | 1600 | |
| | l ₂ | [mm] | 205 | 270 | 270 | |
| | l ₃ | [mm] | 840 | 1060 | 1060 | |
| | b ₁ | [mm] | 430 | 530 | 530 | |
| | b ₂ | [mm] | 540 | 660 | 660 | |
| | b ₃ | [mm] | 490 | 600 | 600 | |
| | d | [mm] | 24 | 28 | 28 | |
| | a ₂ | [mm] | 90 | 90 | 90 | |
| | h | [mm] | 80 | 100 | 100 | |
| | h ₃ | [mm] | 280 | 305 | 305 | |
| | h ₄ ¹⁾ | [mm] | 538/679 | 610/- | 610/- | |
| | Número de bancada | | 6 | 8 | 8 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 368 | 368 | 368 | |
| | L NB SS | [mm] | - | - | - | |
| | h ₁ | [mm] | 200 | 200 | 200 | |
| | G ₁ | [mm] | 146 | 146 | 146 | |
| | G ₂ | [mm] | 187 | 187 | 187 | |
| | m ₁ | [mm] | 160 | 160 | 160 | |
| | m ₂ | [mm] | 120 | 120 | 120 | |
| | n ₁ | [mm] | 360 | 360 | 360 | |
| | n ₂ | [mm] | 280 | 280 | 280 | |
| | b | [mm] | 80 | 80 | 80 | |
| | s ₁ | [mm] | M16 | M16 | M16 | |
| | H | [mm] | 180 | 200 | 200 | |
| | | LB ¹⁾ | [mm] | 602/525 | 659/- | 659/- |
| | | AD ¹⁾ | [mm] | 258/399 | 305/- | 305/- |
| | | AG ¹⁾ | [mm] | 152/328 | 260/- | 260/- |
| | | LL ¹⁾ | [mm] | 132/456 | 192/- | 192/- |
| | | P | [mm] | 350 | 400 | 400 |
| | | C | [mm] | 121 | 133 | 133 |
| | | B | [mm] | 241 | 305 | 305 |
| | A | [mm] | 279 | 318 | 318 | |
| | K | [mm] | 15 | 19 | 19 | |
| | Peso NB ¹⁾ | [kg] | 212/293 | 299/- | 299/- | |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | |

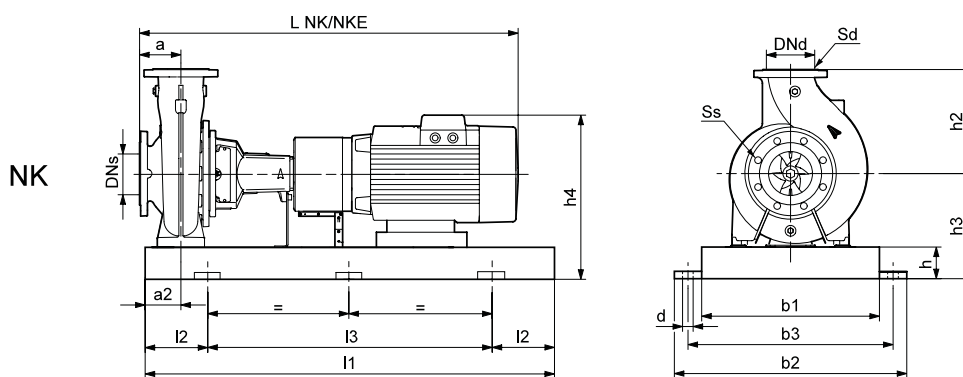
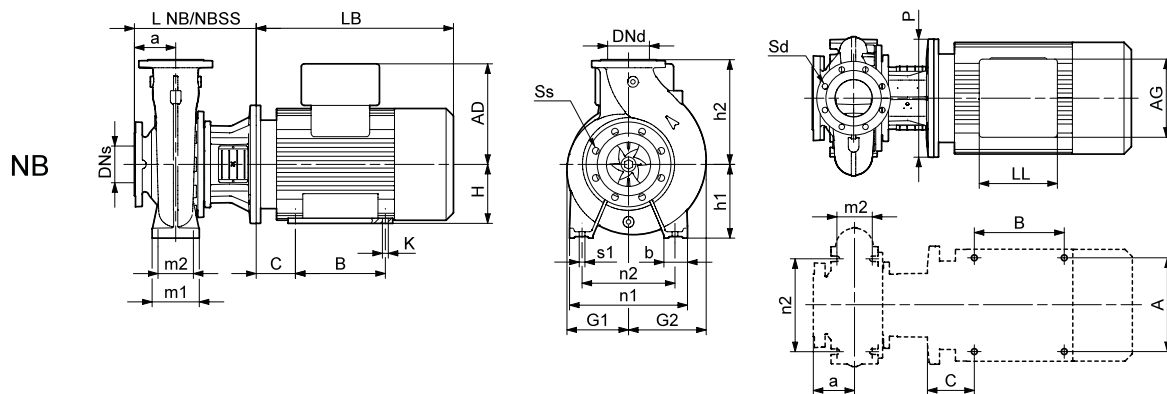
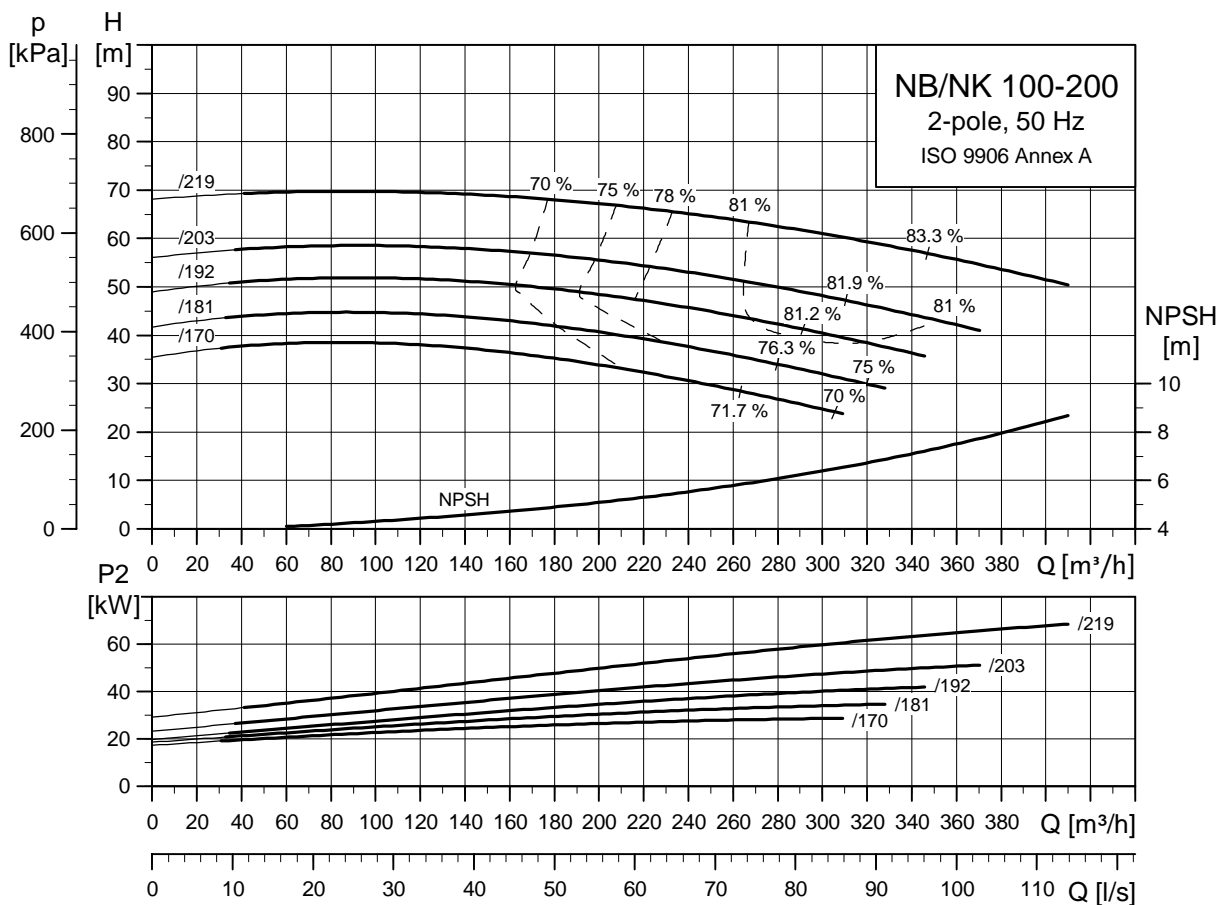
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-200
2 polos



TM03 5108 4106

TM03 4182 4106

TM03 4179 1806

| Tipo de bomba | | 100-200/170 | 100-200/181 | 100-200/192 | 100-200/203 | 100-200/219 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 200L | Siemens 200L | Siemens 225M | Siemens 250M | Siemens 280S | |
| | Motor eléctrico | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 30 | 37 | 45 | 55 | 75 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 | 100 |
| | a | [mm] | 125 | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1368/1504 | 1368/1504 | 1418/1554 | 1486/1622 | 1559/1695 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 463/458 | 463/458 | 585/580 | 716/711 | 973/972 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1600 | 1600 | 1600 | 1800 | 2000 |
| | l ₂ | [mm] | 270 | 270 | 270 | 300 | 330 |
| | l ₃ | [mm] | 1060 | 1060 | 1060 | 1200 | 1340 |
| | b ₁ | [mm] | 530 | 530 | 530 | 600 | 750 |
| | b ₂ | [mm] | 660 | 660 | 660 | 730 | 890 |
| | b ₃ | [mm] | 600 | 600 | 600 | 670 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 | 130 |
| | h ₃ | [mm] | 305 | 305 | 330 | 360 | 415 |
| | h ₄ ¹⁾ | [mm] | 610/- | 610/- | 655/- | 752/- | 847/- |
| Número de bancada | | 8 | 8 | 8 | 9 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 398 | 398 | 428 | 428 | 428 |
| | L NB SS | [mm] | - | - | - | - | - |
| | h ₁ | [mm] | 200 | 200 | 200 | 200 | 200 |
| | G ₁ | [mm] | 169 | 169 | 169 | 169 | 169 |
| | G ₂ | [mm] | 212 | 212 | 212 | 212 | 212 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 360 | 360 | 360 | 360 | 360 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 | 280 |
| | b | [mm] | 80 | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 | M16 |
| | H | [mm] | 200 | 200 | 225 | 250 | 280 |
| | LB ¹⁾ | [mm] | 659/- | 659/- | 709/- | 747/- | 820/- |
| | AD ¹⁾ | [mm] | 305/- | 305/- | 325/- | 392/- | 432/- |
| | AG ¹⁾ | [mm] | 260/- | 260/- | 260/- | 300/- | 300/- |
| | LL ¹⁾ | [mm] | 192/- | 192/- | 192/- | 236/- | 236/- |
| | P | [mm] | 400 | 400 | 450 | 550 | 550 |
| | C | [mm] | 133 | 133 | 149 | 168 | 190 |
| | B | [mm] | 305 | 305 | 311 | 349 | 368 |
| A | [mm] | 318 | 318 | 356 | 406 | 457 | |
| K | [mm] | 19 | 19 | 19 | 24 | 24 | |
| Peso NB ¹⁾ | [kg] | 315/- | 315/- | 439/- | 545/- | 656/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

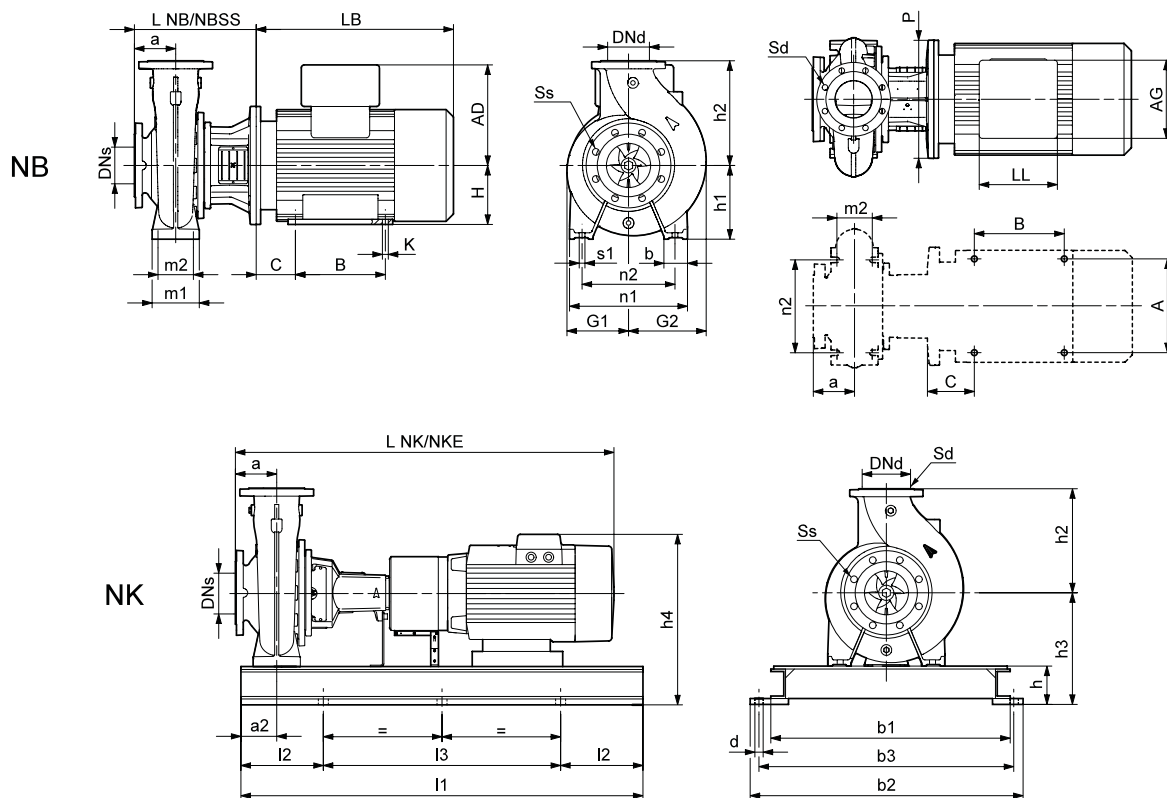
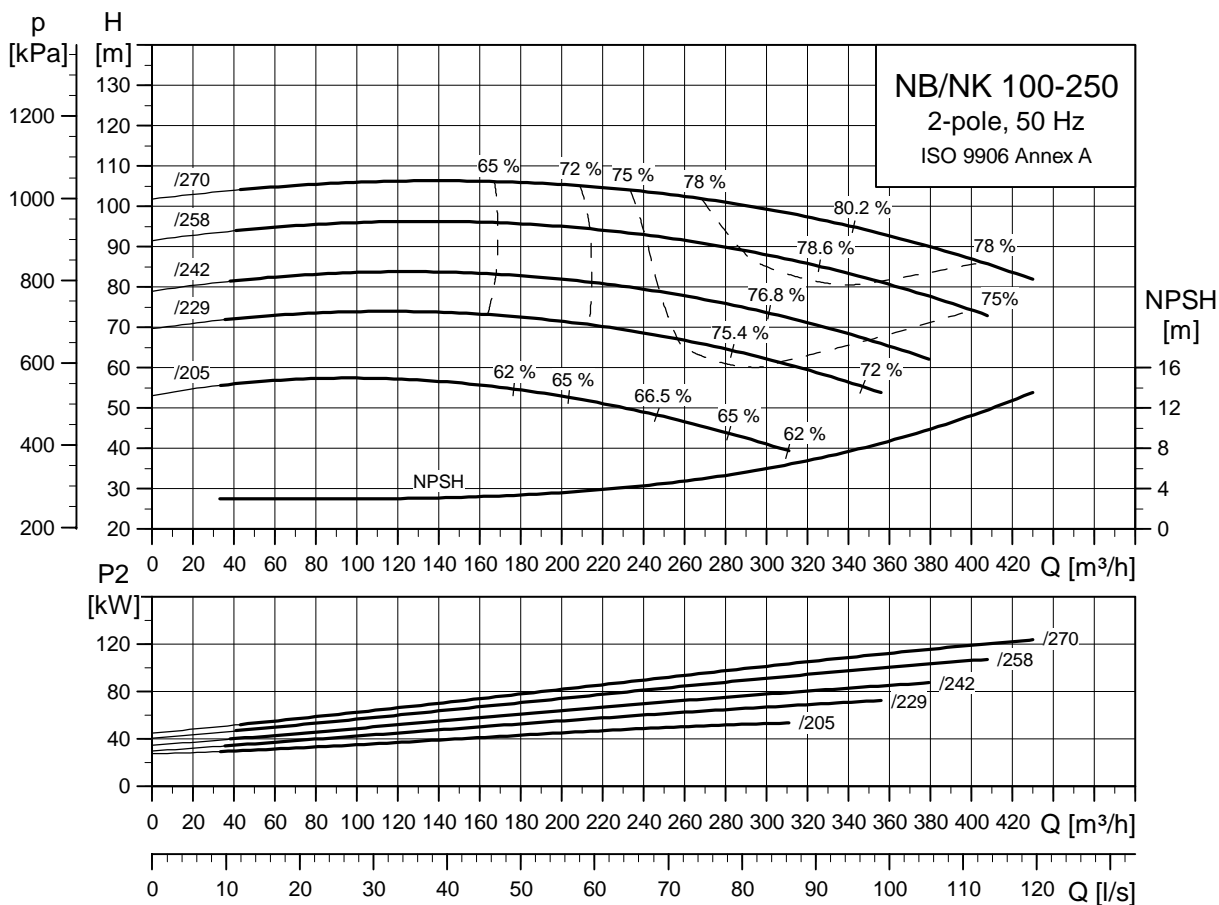
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-250
2 polos



TM03 5109 4106

TM03 4182 4106

TM03 4051 1806

| Tipo de bomba | | 100-250/205 | 100-250/229 | 100-250/242 | 100-250/258 | 100-250/270 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 250M | Siemens 280S | Siemens 280M | Siemens 315S | Siemens 315M | |
| | Motor eléctrico | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 55 | 75 | 90 | 110 | 132 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 | 100 |
| | a | [mm] | 140 | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1501/1637 | 1574/1710 | 1684/1820 | 1686/1822 | 1846/1982 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 725/720 | 987/986 | 1073/1071 | 1259/1258 | 1386/1384 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1800 | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 300 | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1200 | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 600 | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 730 | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 670 | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 355 | 415 | 415 | 455 | 455 |
| | h ₄ ¹⁾ | [mm] | 747/- | 847/- | 847/- | 950/- | 950/- |
| Número de bancada | | 9 | 10 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 443 | 443 | 443 | 473 | 473 |
| | L NB SS | [mm] | - | - | - | - | - |
| | h ₁ | [mm] | 225 | 225 | 225 | 225 | 225 |
| | G ₁ | [mm] | 188 | 188 | 188 | 188 | 188 |
| | G ₂ | [mm] | 224 | 224 | 224 | 224 | 224 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 | M16 |
| | H | [mm] | 250 | 280 | 280 | 315 | 315 |
| | LB ¹⁾ | [mm] | 747/- | 820/- | 930/- | 932/- | 1092/- |
| | AD ¹⁾ | [mm] | 392/- | 432/- | 432/- | 495/- | 495/- |
| | AG ¹⁾ | [mm] | 300/- | 300/- | 300/- | 379/- | 379/- |
| | LL ¹⁾ | [mm] | 236/- | 236/- | 236/- | 307/- | 307/- |
| | P | [mm] | 550 | 550 | 550 | 660 | 660 |
| | C | [mm] | 168 | 190 | 190 | 216 | 216 |
| | B | [mm] | 349 | 368 | 419 | 406 | 457 |
| A | [mm] | 406 | 457 | 457 | 508 | 508 | |
| K | [mm] | 24 | 24 | 24 | 28 | 28 | |
| Peso NB ¹⁾ | [kg] | 559/- | 669/- | 754/- | 967/- | 1092/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

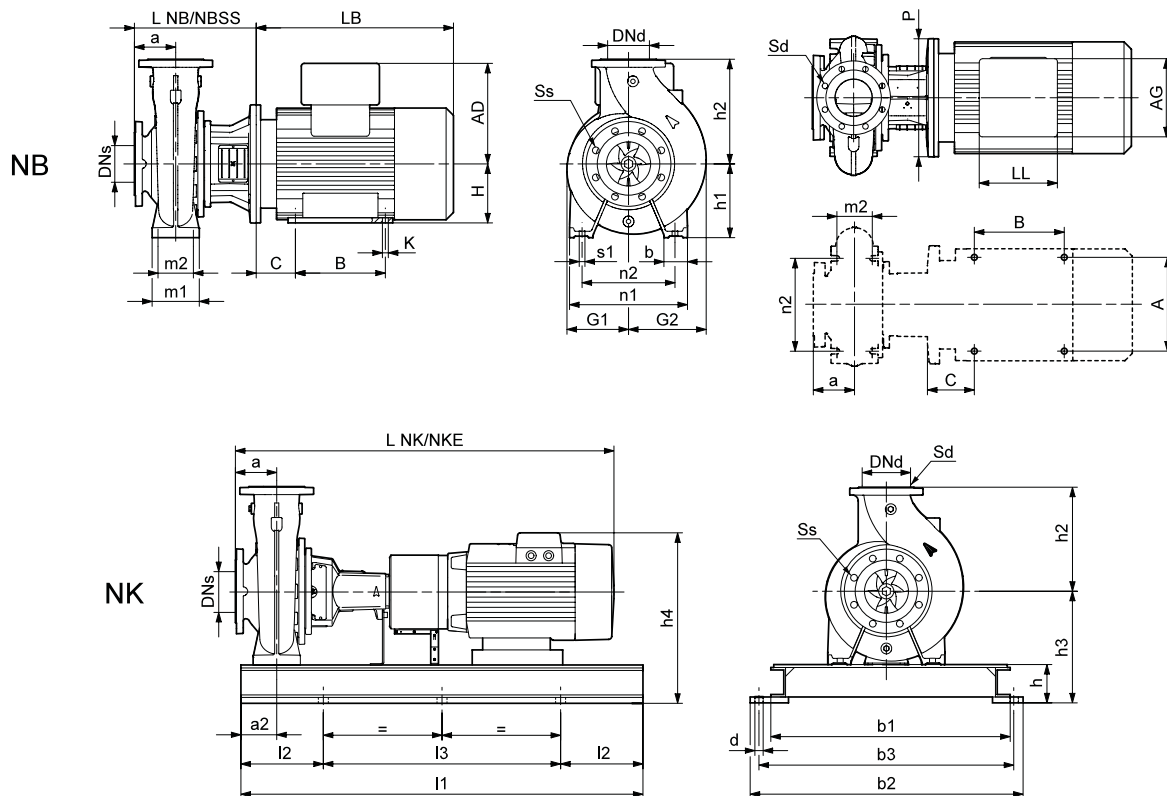
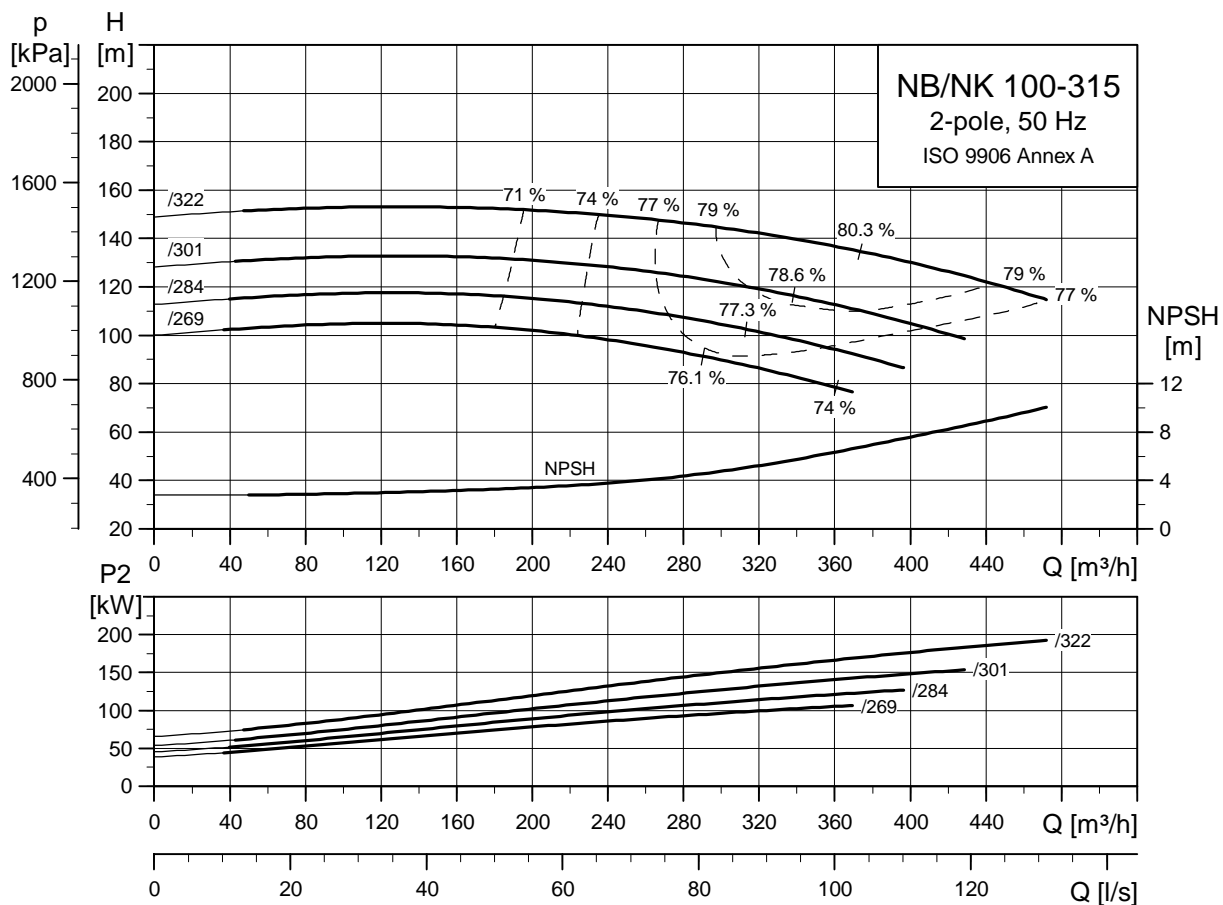
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-315
2 polos



TM03 5110 4601

TM03 4182 4106

TM03 4051 1806

| Tipo de bomba | | 100-315/269 | 100-315/284 | 100-315/301 ³⁾ | 100-315/322 ³⁾ | |
|----------------------------------------|------------------------------|--------------|-----------------|---------------------------|---------------------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 315S | Siemens 315M | Siemens 315L | Siemens 315L | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 110 | 132 | 160 | 200 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 315 | 315 | 315 | 315 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1686/1822 | 1846/1982 | 1906/2042 | 2046/2182 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 1271/1270 | 1397/1395 | 1564/1563 | 1754/1753 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 450 | 450 | 450 | 450 |
| | h ₄ ¹⁾ | [mm] | 945/- | 945/- | 945/- | 945/- |
| Número de bancada | | 10 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 473 | 473 | 473 | 473 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 208 | 208 | 208 | 208 |
| | G ₂ | [mm] | 264 | 264 | 264 | 264 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | 315 | 315 | 315 | 315 |
| | LB ¹⁾ | [mm] | 932/- | 1092/- | 1092/- | 1232/- |
| | AD ¹⁾ | [mm] | 495/- | 495/- | 495/- | 495/- |
| | AG ¹⁾ | [mm] | 379/- | 379/- | 379/- | 379/- |
| | LL ¹⁾ | [mm] | 307/- | 307/- | 307/- | 307/- |
| | P | [mm] | 660 | 660 | 660 | 660 |
| | C | [mm] | 216 | 216 | 216 | 216 |
| | B | [mm] | 406 | 457 | 508 | 508 |
| | A | [mm] | 508 | 508 | 508 | 508 |
| K | [mm] | 28 | 28 | 28 | 28 | |
| Peso NB ¹⁾ | [kg] | 988/- | 1113/- | 1254/- | 1444/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

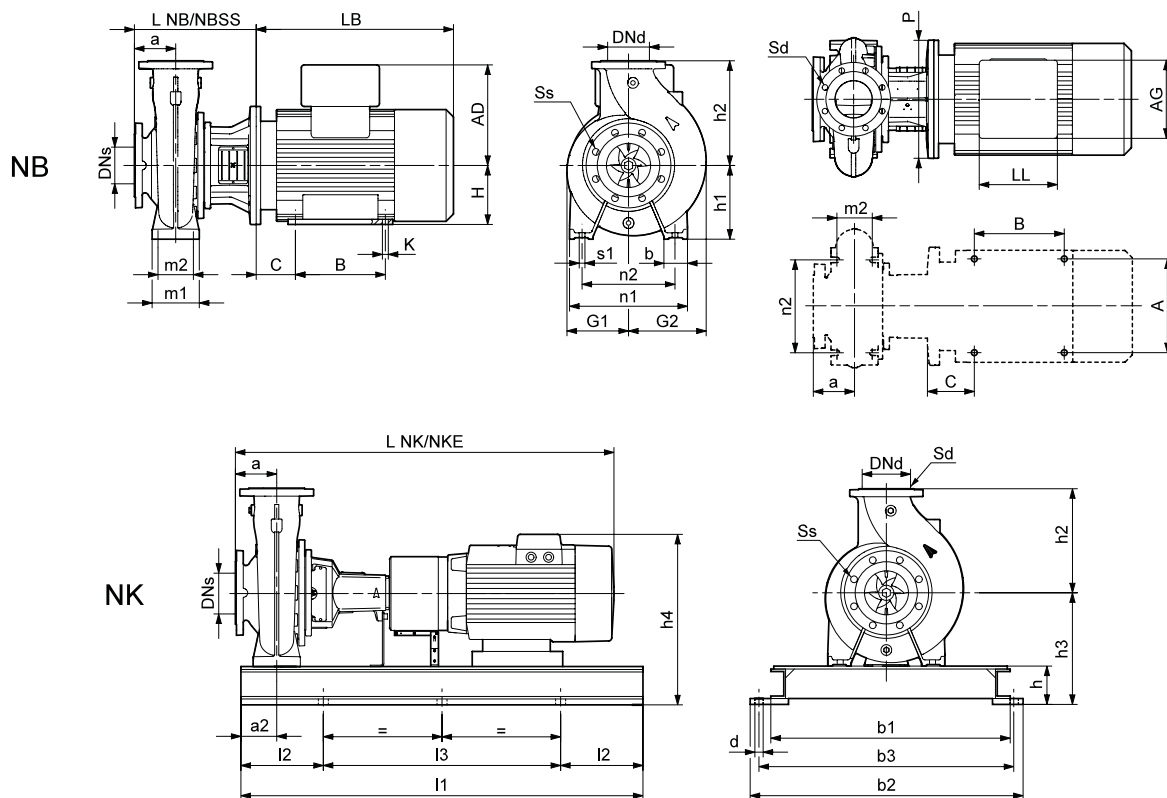
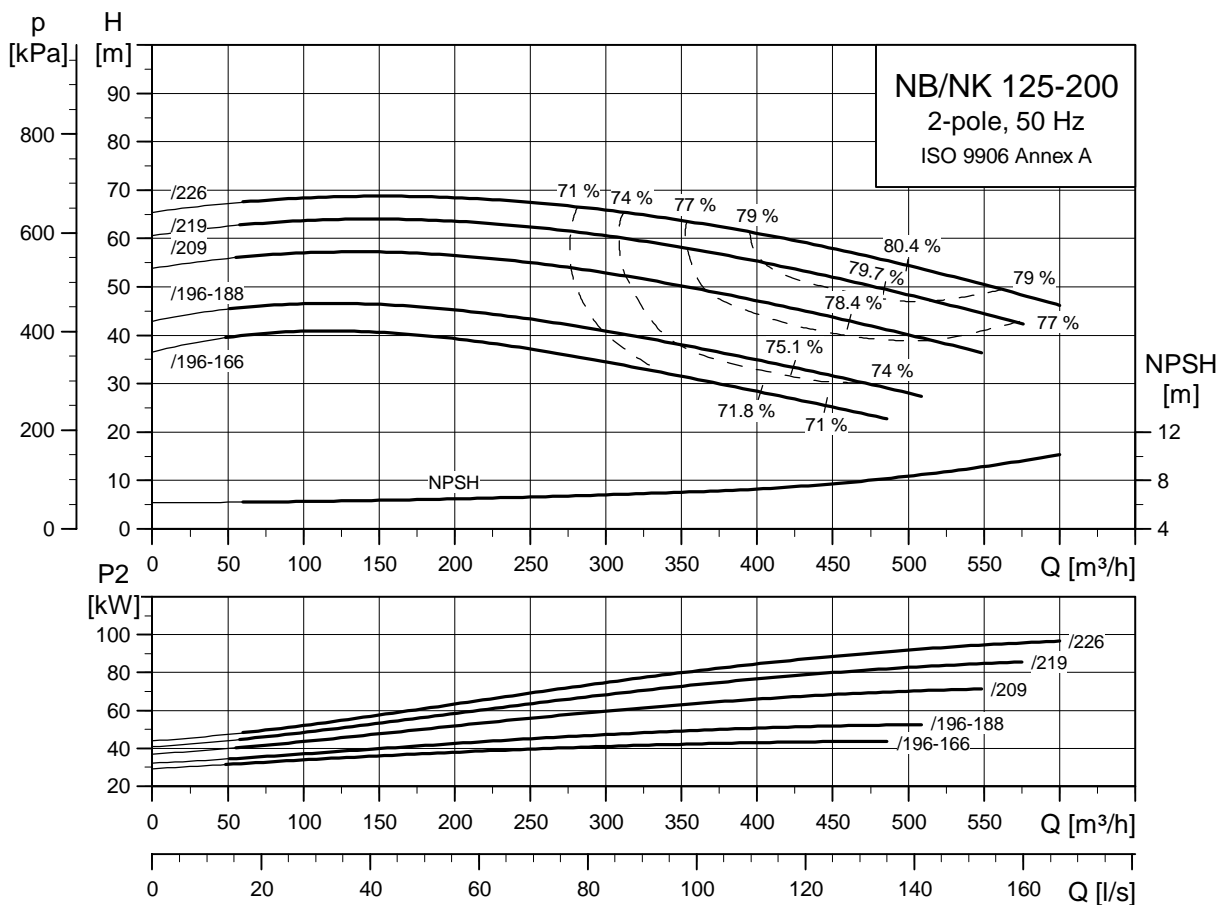
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NK 100-315/301 y NK 100-315/322 son sobredimensionadas.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-200
2 polos



TM03 5111 4106

TM03 4182 4106

TM03 4051 1806

| Tipo de bomba | | 125-200/196-166 | 125-200/196-188 | 125-200/209 | 125-200/219 | 125-200/226 | |
|----------------------------------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 225M | Siemens 250M | Siemens 280S | Siemens 280M | Siemens 315S | |
| | Motor eléctrico | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 45 | 55 | 75 | 90 | 110 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 | 125 |
| | a | [mm] | 140 | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 315 | 315 | 315 | 315 | 315 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1433/1569 | 1501/1637 | 1574/1710 | 1684/1820 | 1686/1822 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 620/615 | 733/728 | 1004/1003 | 1090/1088 | 1265/1264 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| | l ₁ | [mm] | 1600 | 1800 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 270 | 300 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1060 | 1200 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 530 | 600 | 750 | 750 | 750 |
| | b ₂ | [mm] | 660 | 730 | 890 | 890 | 890 |
| | b ₃ | [mm] | 600 | 670 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 130 | 130 | 130 |
| | h ₃ | [mm] | 350 | 355 | 415 | 415 | 450 |
| h ₄ ¹⁾ | [mm] | 675/- | 747/- | 847/- | 847/- | 945/- | |
| Número de bancada | | 8 | 9 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 443 | 443 | 443 | 443 | 473 |
| | L NB SS | [mm] | - | - | - | - | - |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 183 | 183 | 183 | 183 | 183 |
| | G ₂ | [mm] | 234 | 234 | 234 | 234 | 234 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 | M16 |
| | H | [mm] | 225 | 250 | 280 | 280 | 315 |
| | LB ¹⁾ | [mm] | 709/- | 747/- | 820/- | 930/- | 932/- |
| | AD ¹⁾ | [mm] | 325/- | 392/- | 432/- | 432/- | 495/- |
| | AG ¹⁾ | [mm] | 260/- | 300/- | 300/- | 300/- | 379/- |
| | LL ¹⁾ | [mm] | 192/- | 236/- | 236/- | 236/- | 307/- |
| | P | [mm] | 450 | 550 | 550 | 550 | 660 |
| | C | [mm] | 149 | 168 | 190 | 190 | 216 |
| | B | [mm] | 311 | 349 | 368 | 419 | 406 |
| | A | [mm] | 356 | 406 | 457 | 457 | 508 |
| | K | [mm] | 19 | 24 | 24 | 24 | 28 |
| | Peso NB ¹⁾ | [kg] | 468/- | 573/- | 684/- | 769/- | 982/- |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

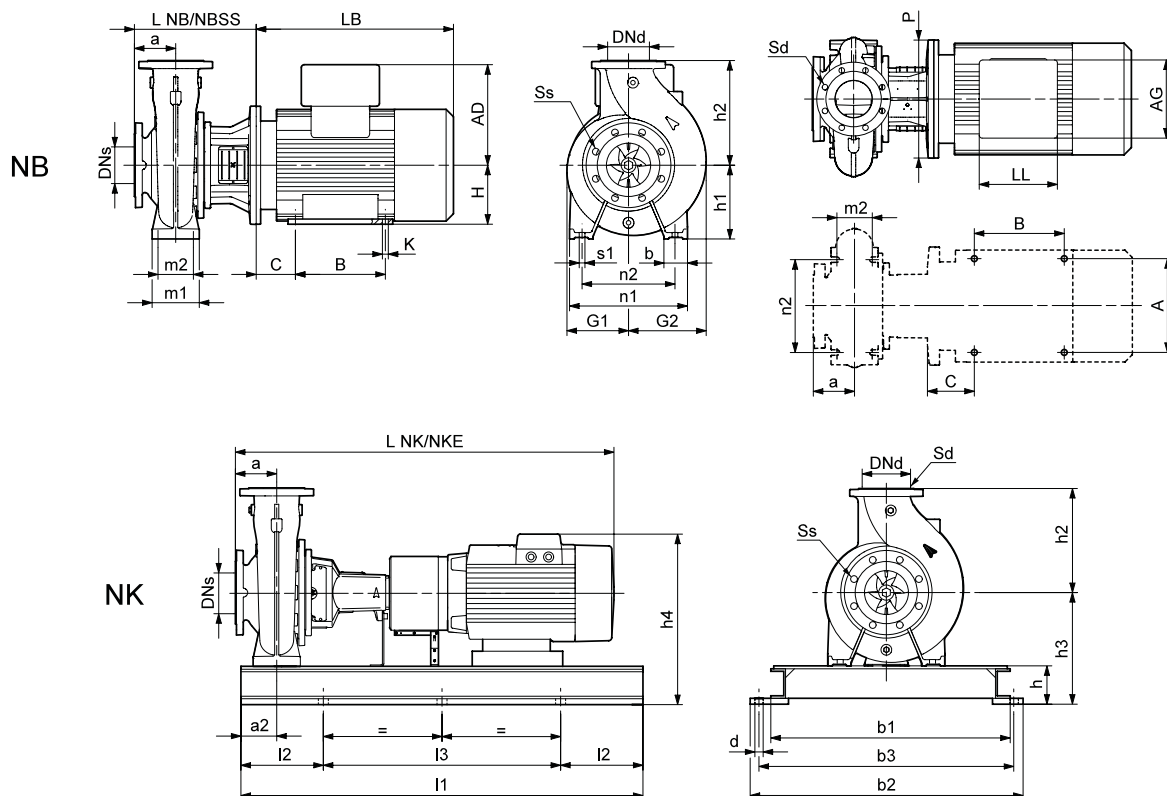
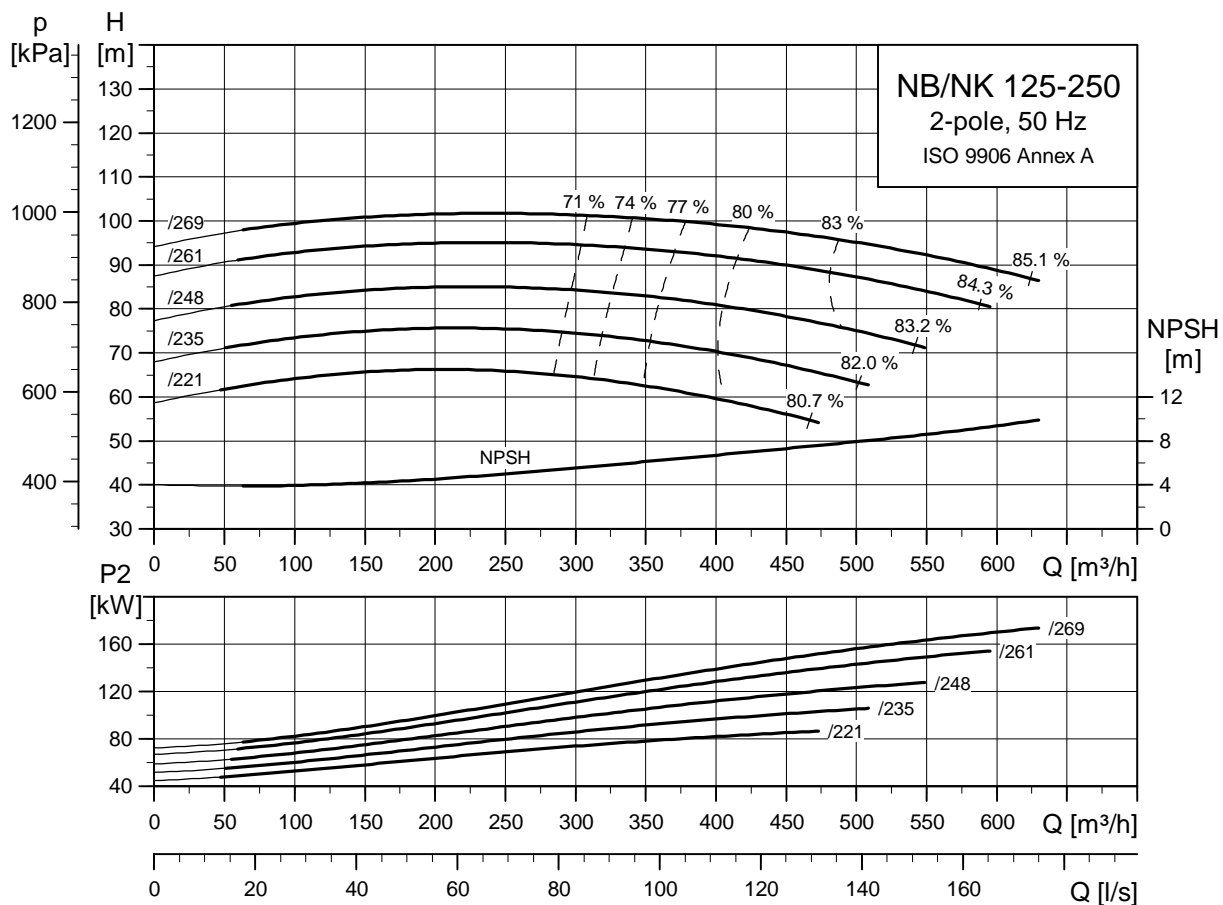
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-250
2 polos



TM03 5112 4106

TM03 4182 4106

TM03 4051 1806

| Tipo de bomba | | 125-250/221 ³⁾ | 125-250/235 ³⁾ | 125-250/248 ³⁾ | 125-250/261 ³⁾ | 125-250/269 ³⁾ | |
|----------------------------------------|------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 280M | Siemens 315S | Siemens 315M | Siemens 315L | Siemens 315L | |
| | Motor eléctrico | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 90 | 110 | 132 | 160 | 200 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 | 125 |
| | a | [mm] | 140 | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 355 | 355 | 355 | 355 | 355 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1744/1880 | 1746/1882 | 1906/2042 | 1906/2042 | 2046/2182 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 1119/1117 | 1294/1293 | 1419/1418 | 1559/1558 | 1749/1748 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 330 | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 750 | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 890 | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 830 | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 | 90 |
| | h | [mm] | 130 | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 415 | 450 | 450 | 450 | 450 |
| | h ₄ ¹⁾ | [mm] | 847/- | 945/- | 945/- | 945/- | 945/- |
| | Número de bancada | | 10 | 10 | 10 | 10 | 10 |
| | Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| L NB | | [mm] | 441 | 471 | 471 | 471 | 471 |
| L NB SS | | [mm] | - | - | - | - | - |
| h ₁ | | [mm] | 250 | 250 | 250 | 250 | 250 |
| G ₁ | | [mm] | 208 | 208 | 208 | 208 | 208 |
| G ₂ | | [mm] | 264 | 264 | 264 | 264 | 264 |
| m ₁ | | [mm] | 160 | 160 | 160 | 160 | 160 |
| m ₂ | | [mm] | 120 | 120 | 120 | 120 | 120 |
| n ₁ | | [mm] | 400 | 400 | 400 | 400 | 400 |
| n ₂ | | [mm] | 315 | 315 | 315 | 315 | 315 |
| b | | [mm] | 80 | 80 | 80 | 80 | 80 |
| s ₁ | | [mm] | M16 | M16 | M16 | M16 | M16 |
| H | | [mm] | 280 | 315 | 315 | 315 | 315 |
| LB ¹⁾ | | [mm] | 930/- | 932/- | 1092/- | 1092/- | 1232/- |
| AD ¹⁾ | | [mm] | 432/- | 495/- | 495/- | 495/- | 495/- |
| AG ¹⁾ | | [mm] | 300/- | 379/- | 379/- | 379/- | 379/- |
| LL ¹⁾ | | [mm] | 236/- | 307/- | 307/- | 307/- | 307/- |
| P | | [mm] | 550 | 660 | 660 | 660 | 660 |
| C | | [mm] | 190 | 216 | 216 | 216 | 216 |
| B | | [mm] | 419 | 406 | 457 | 508 | 508 |
| A | | [mm] | 457 | 508 | 508 | 508 | 508 |
| K | | [mm] | 24 | 28 | 28 | 28 | 28 |
| Peso NB ¹⁾ | [kg] | 778/- | 995/- | 1120/- | 1260/- | 1450/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

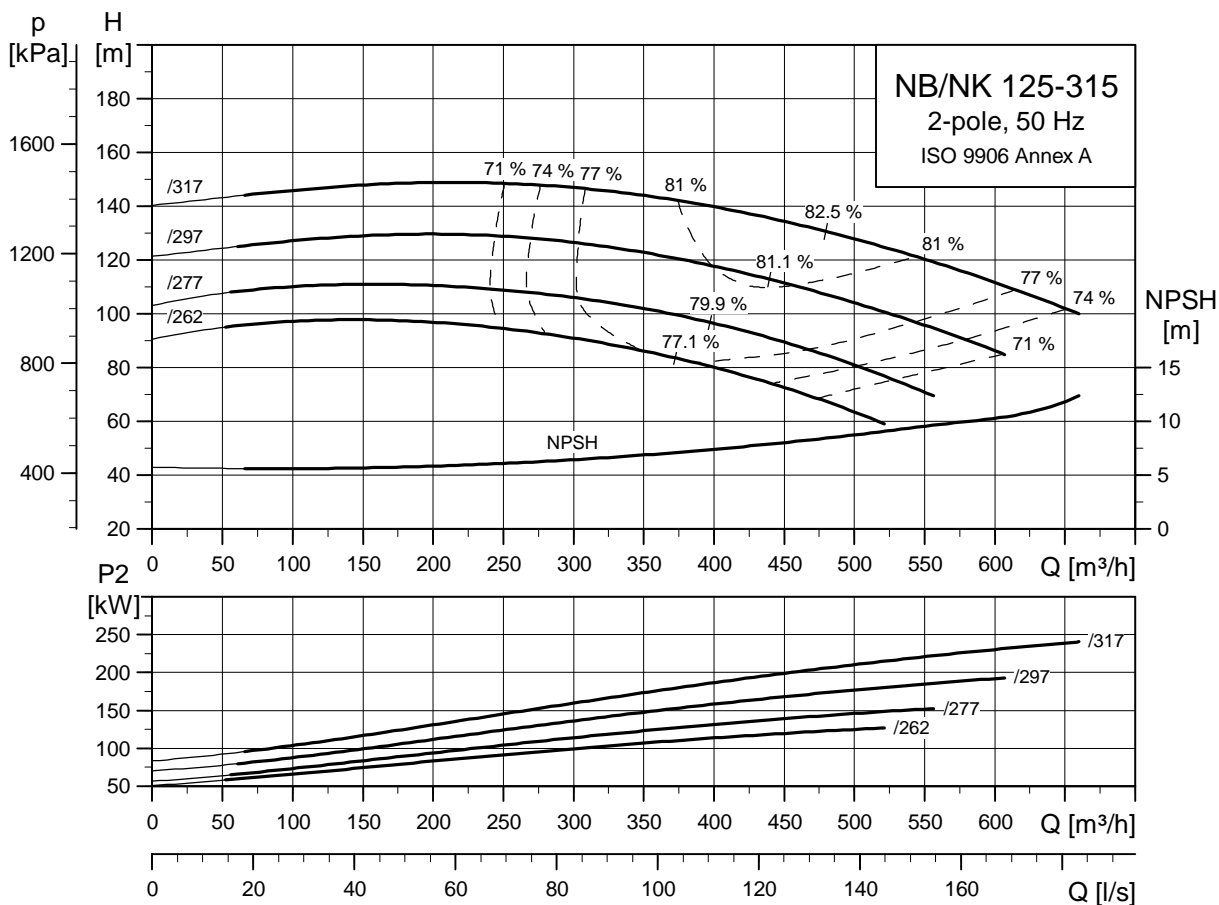
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) Todas las bombas NK de esta tabla son sobredimensionadas.

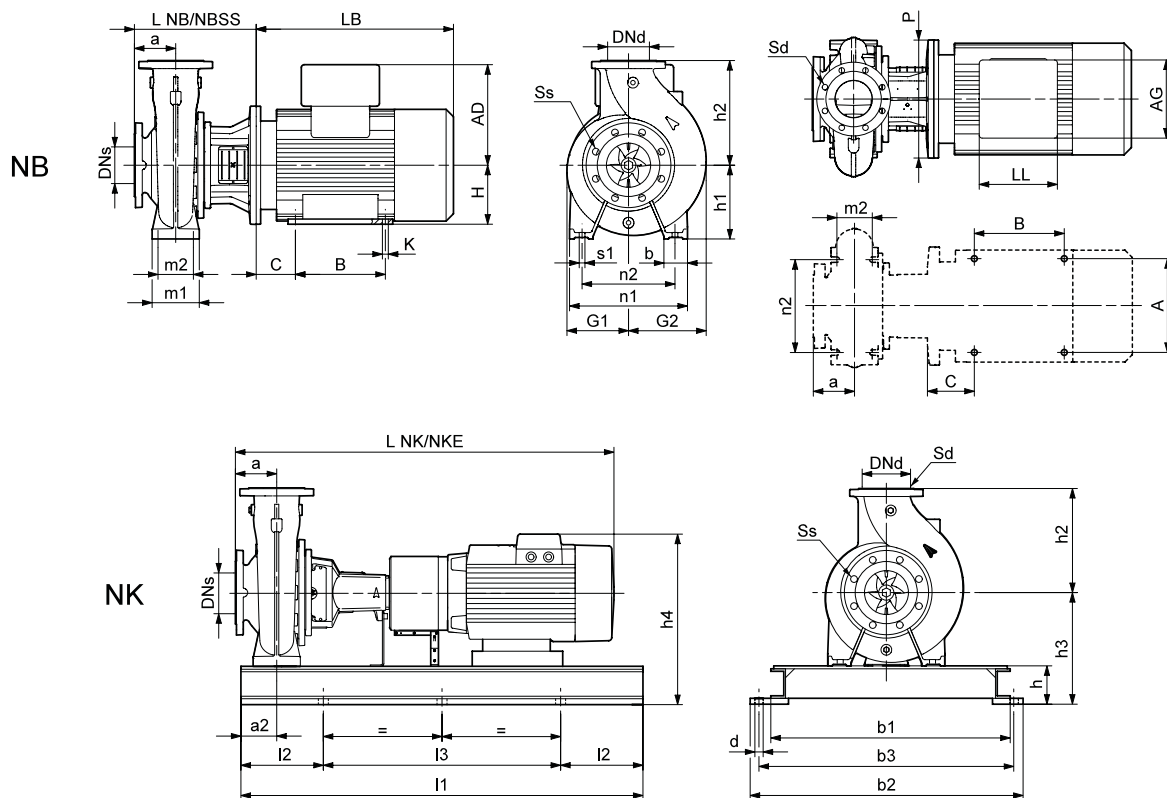
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-315
2 polos



TM03 5113 4106



TM03 4182 4106

TM03 4051 1806

| Tipo de bomba | | 125-315/262 | 125-315/277 | 125-315/297 | 125-315/317 ³⁾ | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|---------------------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 315M | Siemens 315L | Siemens 315L | Siemens 315 | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 132 | 160 | 200 | 250 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 355 | 355 | 355 | 355 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1906/2042 | 1906/2042 | 2046/2182 | 2054/2190 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 1464/1463 | 1603/1602 | 1793/1792 | 1850/1849 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 |
| | h | [mm] | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 450 | 450 | 450 | 450 |
| | h ₄ ¹⁾ | [mm] | 945/- | 945/- | 945/- | 918/- |
| Número de bancada | | 10 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | - |
| | L NB | [mm] | 471 | 471 | 471 | - |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 280 | 280 | 280 | - |
| | G ₁ | [mm] | 231 | 231 | 231 | - |
| | G ₂ | [mm] | 268 | 268 | 268 | - |
| | m ₁ | [mm] | 200 | 200 | 200 | - |
| | m ₂ | [mm] | 150 | 150 | 150 | - |
| | n ₁ | [mm] | 500 | 500 | 500 | - |
| | n ₂ | [mm] | 400 | 400 | 400 | - |
| | b | [mm] | 100 | 100 | 100 | - |
| | s ₁ | [mm] | M20 | M20 | M20 | - |
| | H | [mm] | 315 | 315 | 315 | - |
| | LB ¹⁾ | [mm] | 1092/- | 1092/- | 1232/- | -/- |
| | AD ¹⁾ | [mm] | 495/- | 495/- | 495/- | -/- |
| | AG ¹⁾ | [mm] | 379/- | 379/- | 379/- | -/- |
| | LL ¹⁾ | [mm] | 307/- | 307/- | 307/- | -/- |
| | P | [mm] | 660 | 660 | 660 | - |
| | C | [mm] | 216 | 216 | 216 | - |
| | B | [mm] | 457 | 508 | 508 | - |
| | A | [mm] | 508 | 508 | 508 | - |
| K | [mm] | 28 | 28 | 28 | - | |
| Peso NB ¹⁾ | [kg] | 1158/- | 1298/- | 1488/- | -/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

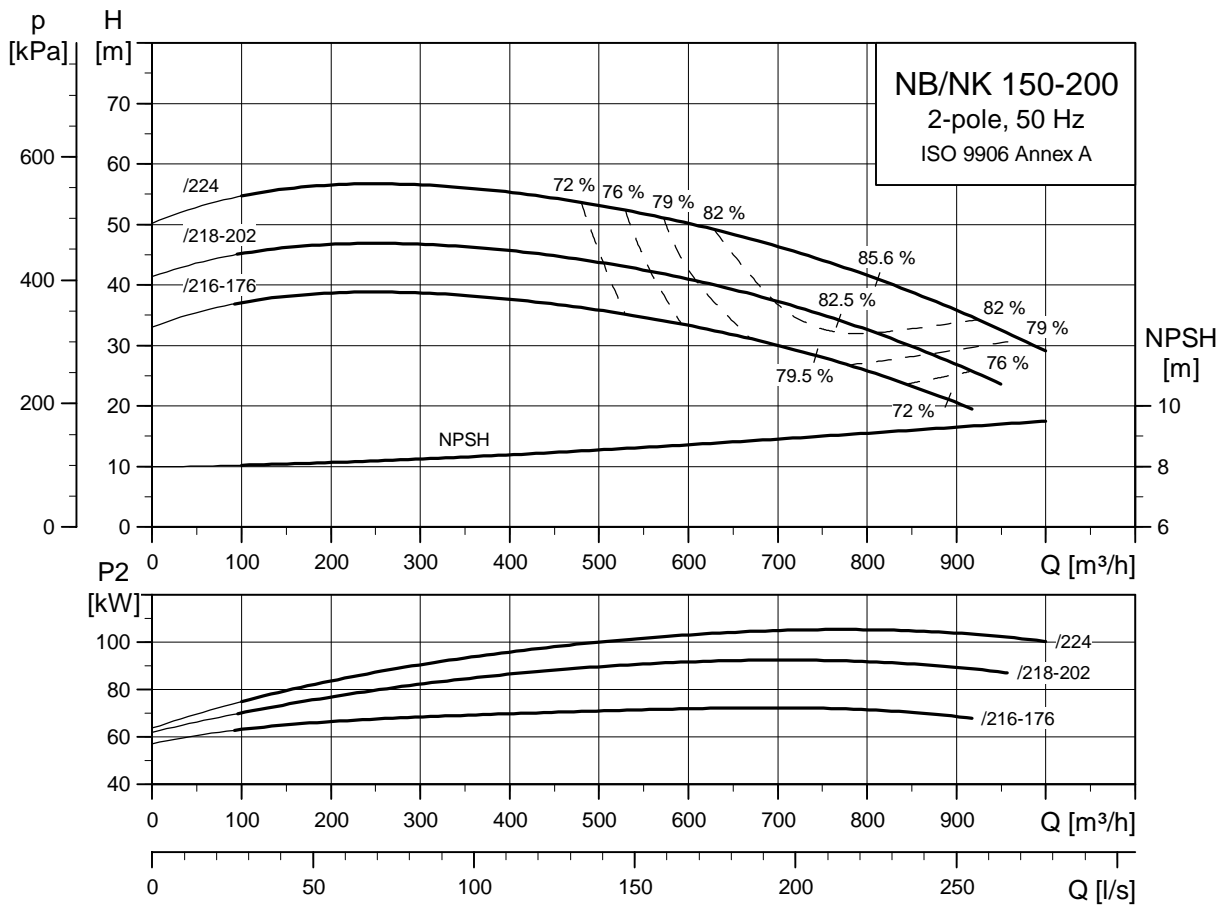
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NK 125-315/317 con un motor EFF2 está montada en una bancada nº 11.

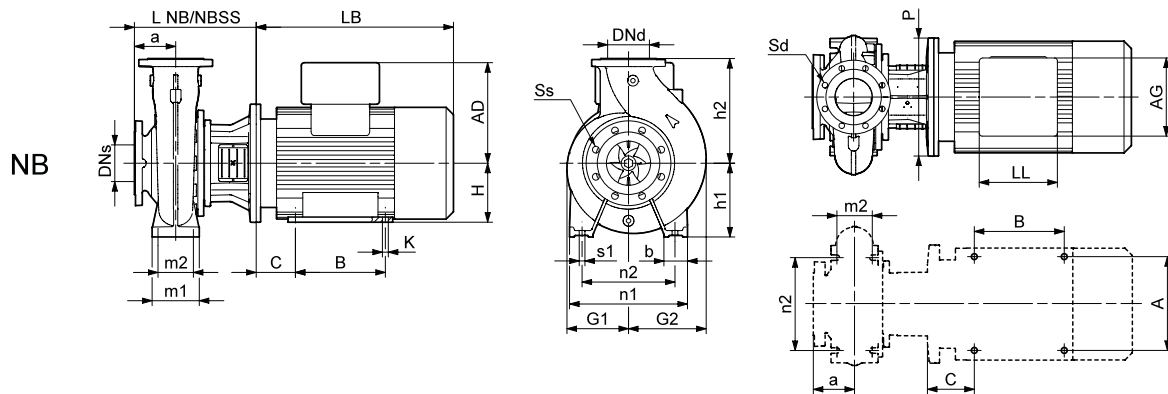
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

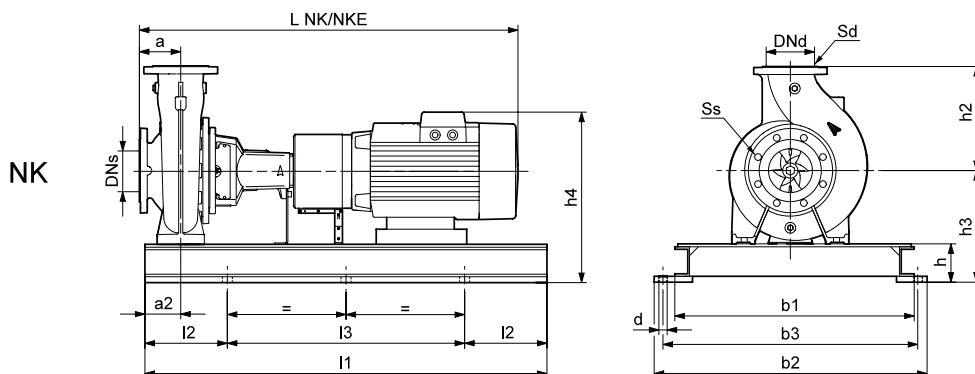
NB, NK 150-200
2 polos



TM03 5114 4106



TM03 4182 4106



TM03 4051 1806

| Tipo de bomba | | 150-200/216-176 | 150-200/218-202 | 150-200/224 | | |
|----------------------------------------|------------------------------|------------------|-----------------|--------------|-----------------|-------|
| Tipo de motor | Motor de gama alta | Siemens 280S | Siemens 280M | Siemens 315S | | |
| | Motor eléctrico | - | - | - | | |
| Datos generales NB/NK | P ₂ | [kW] | 75 | 90 | 110 | |
| | PN | [bar] | 10 | 10 | 10 | |
| | DNs | [mm] | 200 | 200 | 200 | |
| | DNd | [mm] | 150 | 150 | 150 | |
| | a | [mm] | 160 | 160 | 160 | |
| | h ₂ | [mm] | 400 | 400 | 400 | |
| | Ss | | 8x23 | 8x23 | 8x23 | |
| | Sd | | 8x23 | 8x23 | | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1594/1730 | 1704/1840 | 1706/1842 | |
| | L NKE | [mm] | -/- | -/- | -/- | |
| | Peso NK | [kg] | 1052/1050 | 1137/1136 | 1328/1326 | |
| | Peso NKE | [kg] | -/- | -/- | -/- | |
| | Peso NK SS | [kg] | -/- | -/- | -/- | |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | |
| | l ₂ | [mm] | 330 | 330 | 330 | |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | |
| | b ₁ | [mm] | 750 | 750 | 750 | |
| | b ₂ | [mm] | 890 | 890 | 890 | |
| | b ₃ | [mm] | 830 | 830 | 830 | |
| | d | [mm] | 28 | 28 | 28 | |
| | a ₂ | [mm] | 110 | 110 | 110 | |
| | h | [mm] | 130 | 130 | 130 | |
| | h ₃ | [mm] | 415 | 415 | 450 | |
| | h ₄ ¹⁾ | [mm] | 847/- | 847/- | 945/- | |
| | Número de bancada | | 10 | 10 | 10 | |
| Datos NB | Diseño | | C | C | C ²⁾ | |
| | L NB | [mm] | 463 | 463 | 493 | |
| | L NB SS | [mm] | - | - | - | |
| | h ₁ | [mm] | 280 | 280 | 280 | |
| | G ₁ | [mm] | 230 | 230 | 230 | |
| | G ₂ | [mm] | 319 | 319 | 319 | |
| | m ₁ | [mm] | 200 | 200 | 200 | |
| | m ₂ | [mm] | 150 | 150 | 150 | |
| | n ₁ | [mm] | 550 | 550 | 550 | |
| | n ₂ | [mm] | 450 | 450 | 450 | |
| | b | [mm] | 100 | 100 | 100 | |
| | s ₁ | [mm] | M20 | M20 | M20 | |
| | H | [mm] | 280 | 280 | 315 | |
| | | LB ¹⁾ | [mm] | 820/- | 930/- | 932/- |
| | | AD ¹⁾ | [mm] | 432/- | 432/- | 495/- |
| | | AG ¹⁾ | [mm] | 300/- | 300/- | 379/- |
| | | LL ¹⁾ | [mm] | 236/- | 236/- | 307/- |
| | | P | [mm] | 550 | 550 | 660 |
| | | C | [mm] | 190 | 190 | 216 |
| | | B | [mm] | 368 | 419 | 406 |
| | A | [mm] | 457 | 457 | 508 | |
| | K | [mm] | 24 | 24 | 28 | |
| | Peso NB ¹⁾ | [kg] | 738/- | 823/- | 1037/- | |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | |

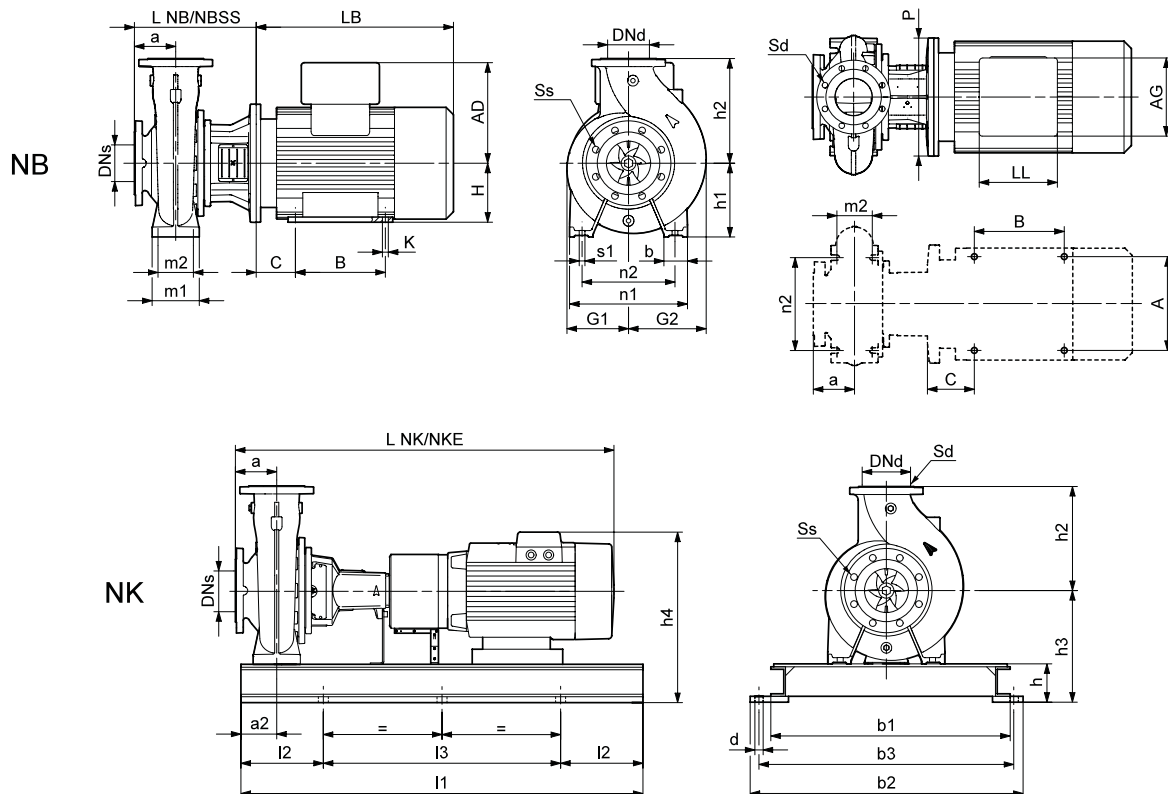
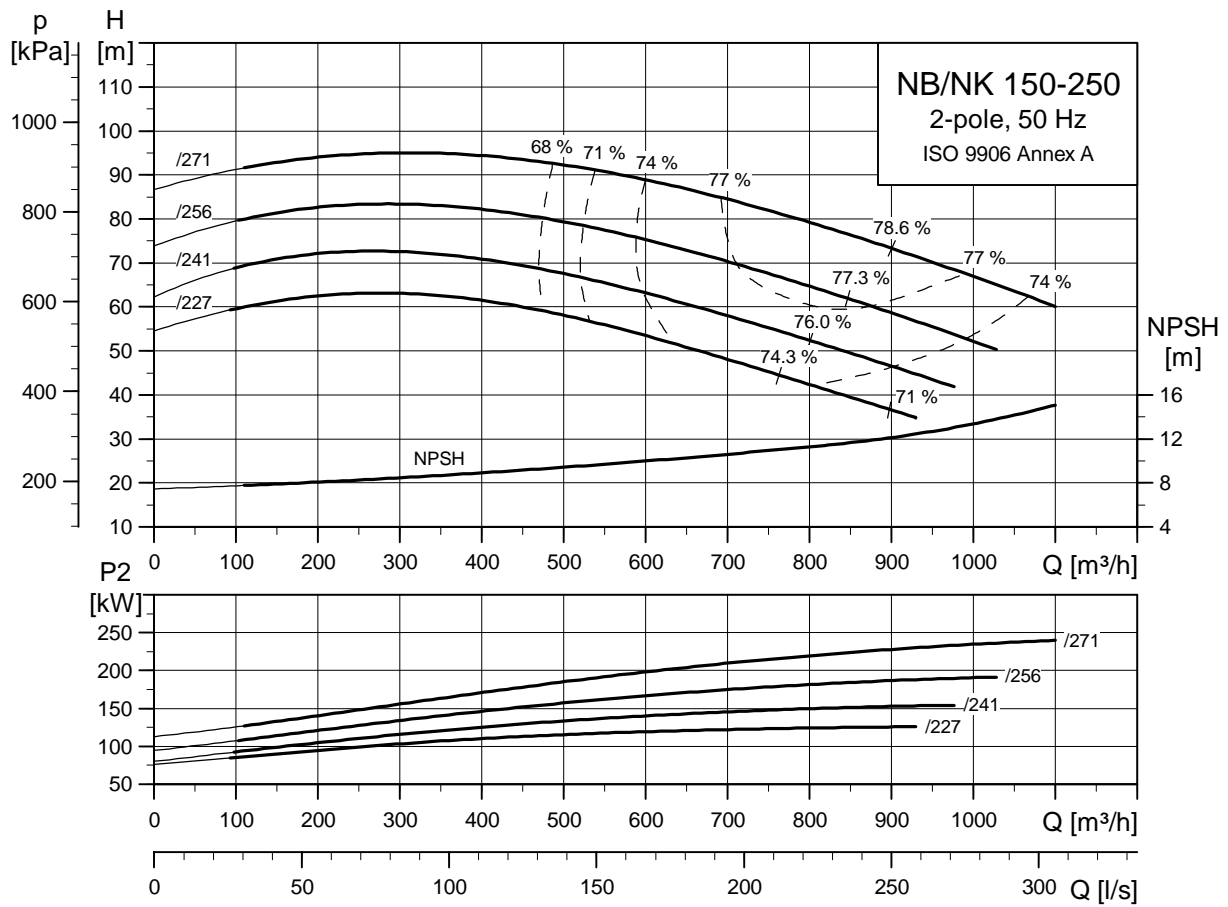
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-250
2 polos



TM03 5115 4106

TM03 4182 4106

TM03 4051 1806

| Tipo de bomba | | 150-250/227 | 150-250/241 | 150-250/256 | 150-250/271 ³⁾ | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|---------------------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 315M | Siemens 315L | Siemens 315L | Siemens 315 | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 132 | 160 | 200 | 250 |
| | PN | [bar] | 10 | 10 | 10 | 10 |
| | DNs | [mm] | 200 | 200 | 200 | 200 |
| | DNd | [mm] | 150 | 150 | 150 | 150 |
| | a | [mm] | 160 | 160 | 160 | 160 |
| | h ₂ | [mm] | 375 | 375 | 375 | 375 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 |
| | Sd | | 8x23 | 8x23 | 8x23 | 8x23 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1926/2062 | 1926/2062 | 2066/2202 | 2074/2210 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 1462/1461 | 1602/1601 | 1792/1791 | 1848/1847 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 |
| | h | [mm] | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 450 | 450 | 450 | 450 |
| | h ₄ ¹⁾ | [mm] | 945/- | 945/- | 945/- | 918/- |
| Número de bancada | | 10 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | - |
| | L NB | [mm] | 491 | 491 | 491 | - |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 280 | 280 | 280 | - |
| | G ₁ | [mm] | 223 | 223 | 223 | - |
| | G ₂ | [mm] | 287 | 287 | 287 | - |
| | m ₁ | [mm] | 200 | 200 | 200 | - |
| | m ₂ | [mm] | 150 | 150 | 150 | - |
| | n ₁ | [mm] | 500 | 500 | 500 | - |
| | n ₂ | [mm] | 400 | 400 | 400 | - |
| | b | [mm] | 100 | 100 | 100 | - |
| | s ₁ | [mm] | M20 | M20 | M20 | - |
| | H | [mm] | 315 | 315 | 315 | - |
| | LB ¹⁾ | [mm] | 1092/- | 1092/- | 1232/- | -/- |
| | AD ¹⁾ | [mm] | 495/- | 495/- | 495/- | -/- |
| | AG ¹⁾ | [mm] | 379/- | 379/- | 379/- | -/- |
| | LL ¹⁾ | [mm] | 307/- | 307/- | 307/- | -/- |
| | P | [mm] | 660 | 660 | 660 | - |
| | C | [mm] | 216 | 216 | 216 | - |
| | B | [mm] | 457 | 508 | 508 | - |
| A | [mm] | 508 | 508 | 508 | - | |
| K | [mm] | 28 | 28 | 28 | - | |
| Peso NB ¹⁾ | [kg] | 1156/- | 1296/- | 1486/- | -/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

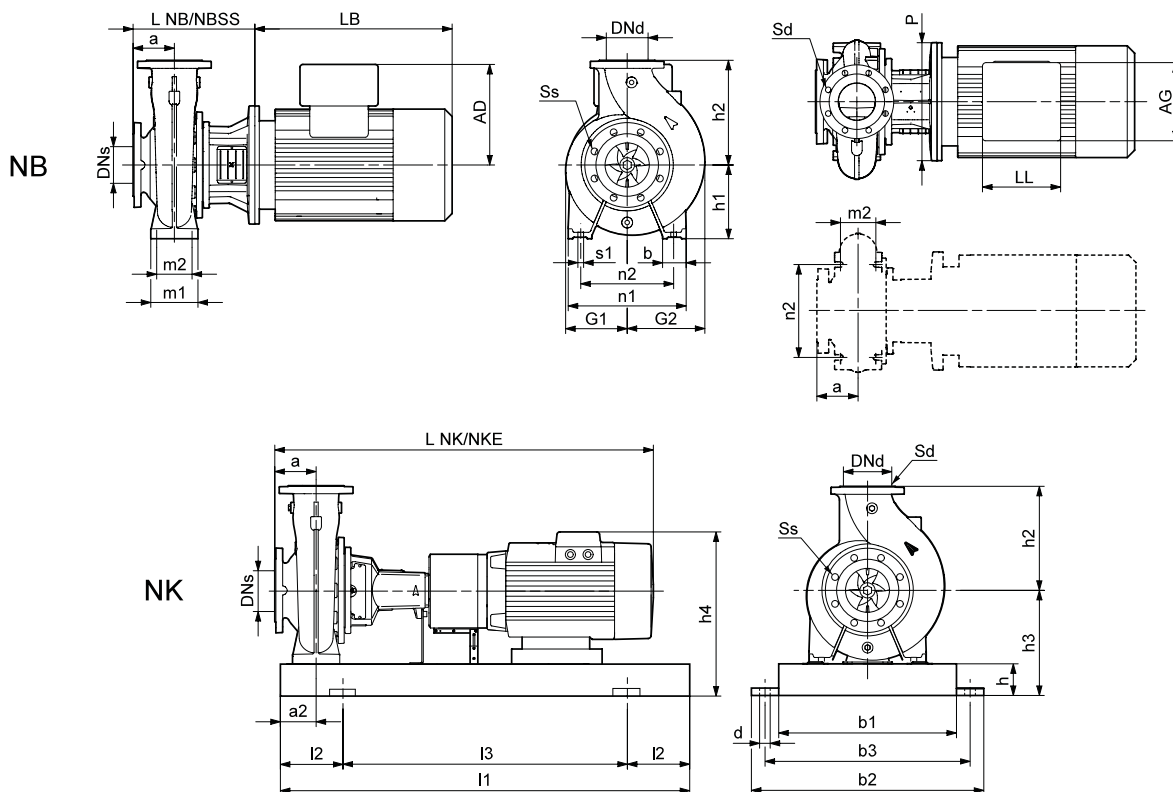
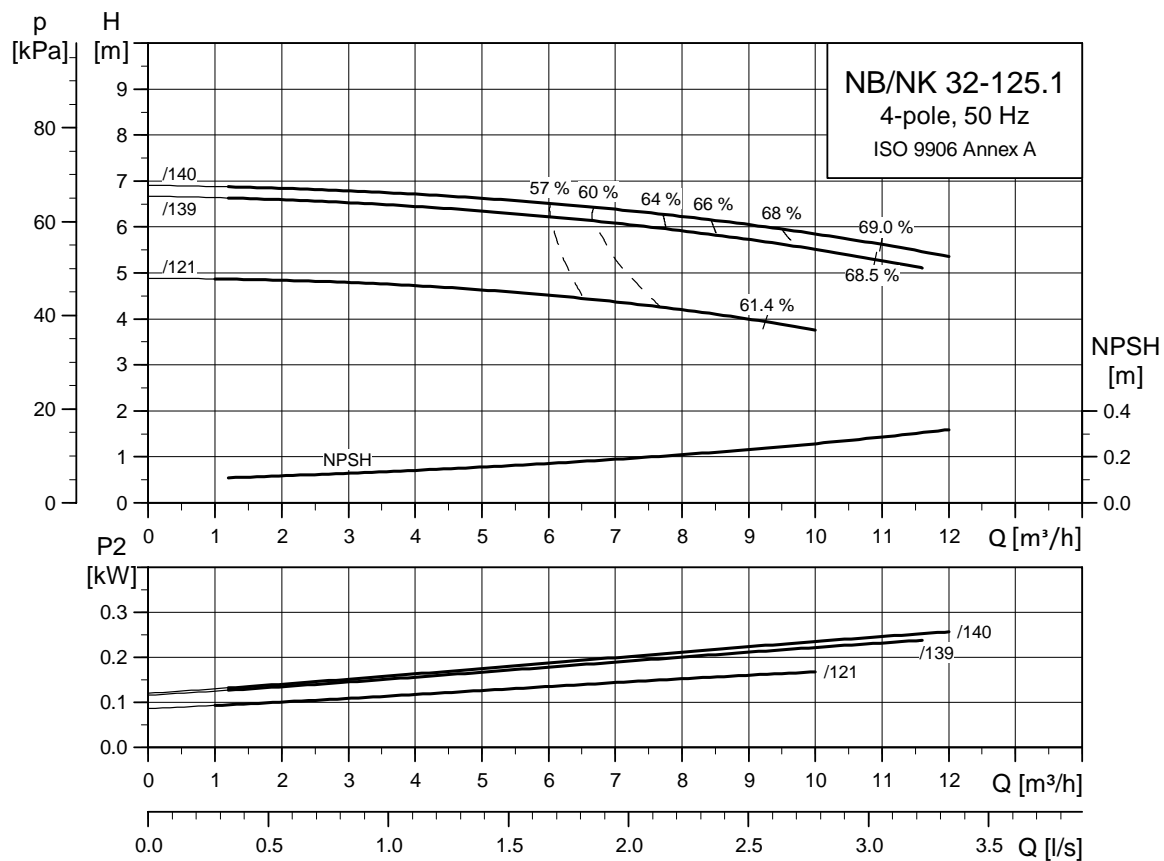
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NK 150-250/271 con un motor EFF2 está montada en una bancada nº 11.

Nota: Para obtener más información sobre bancadas, ver página 270.

NB, NK 4 polos



TM03 5117 4106

TM03 4180 1806

TM03 6005 4106

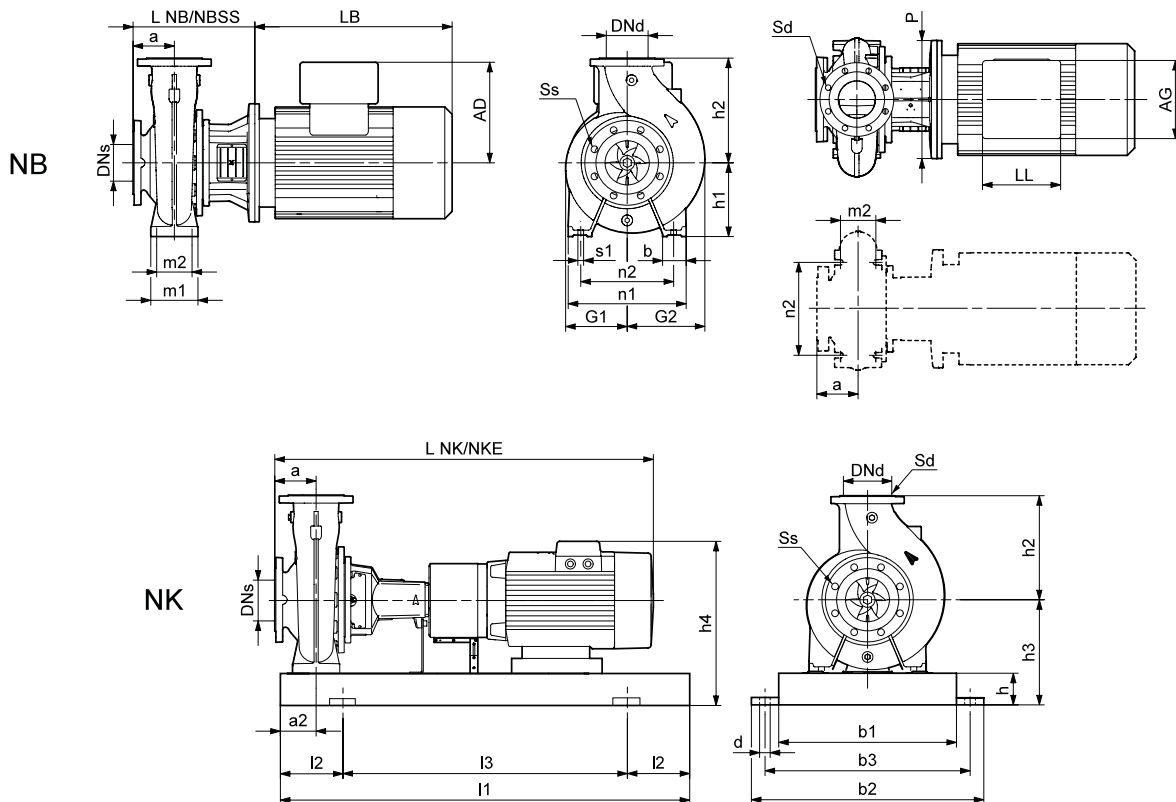
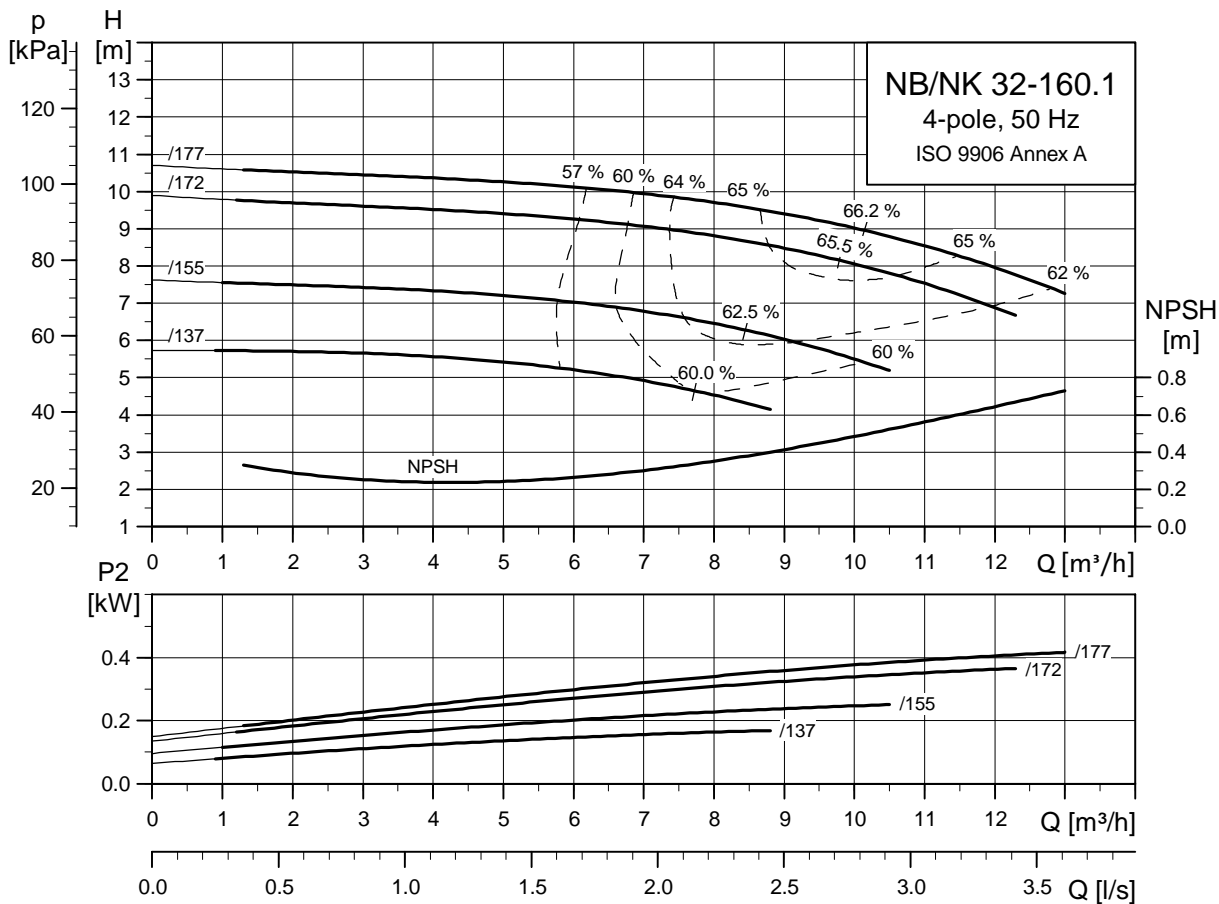
| Tipo de bomba | | 32-125.1/121 | 32-125.1/139 | 32-125.1/140 | |
|----------------------------------------|------------------------------|--------------|--------------|--------------|---------|
| Tipo de motor | Motor de gama alta | MG 71A-C | MG 71A-C | MG 71B-C | |
| | Motor eléctrico | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 0.25 | 0.25 | 0.37 |
| | PN | [bar] | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 |
| | h ₂ | [mm] | 140 | 140 | 140 |
| | Ss | | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 675/761 | 675/761 | 675/761 |
| | L NKE | [mm] | -/- | -/- | -/- |
| | Peso NK | [kg] | 79/79 | 79/79 | 80/80 |
| | Peso NKE | [kg] | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 800 | 800 | 800 |
| | l ₂ | [mm] | 130 | 130 | 130 |
| | l ₃ | [mm] | 540 | 540 | 540 |
| | b ₁ | [mm] | 270 | 270 | 270 |
| | b ₂ | [mm] | 360 | 360 | 360 |
| | b ₃ | [mm] | 320 | 320 | 320 |
| | d | [mm] | 19 | 19 | 19 |
| | a ₂ | [mm] | 60 | 60 | 60 |
| | h | [mm] | 65 | 65 | 65 |
| | h ₃ | [mm] | 177 | 177 | 177 |
| | h ₄ ¹⁾ | [mm] | 286/- | 286/- | 286/- |
| | Número de bancada | | 2 | 2 | 2 |
| Datos NB | Diseño | | A | A | A |
| | L NB | [mm] | 201 | 201 | 201 |
| | L NB SS | [mm] | - | - | - |
| | h ₁ | [mm] | 112 | 112 | 112 |
| | G ₁ | [mm] | 117 | 117 | 117 |
| | G ₂ | [mm] | 117 | 117 | 117 |
| | m ₁ | [mm] | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 |
| | n ₁ | [mm] | 190 | 190 | 190 |
| | n ₂ | [mm] | 140 | 140 | 140 |
| | b | [mm] | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 |
| | H | [mm] | - | - | - |
| | LB ¹⁾ | [mm] | 191/- | 191/- | 191/- |
| | AD ¹⁾ | [mm] | 109/- | 109/- | 109/- |
| | AG ¹⁾ | [mm] | 82/- | 82/- | 82/- |
| | LL ¹⁾ | [mm] | 82/- | 82/- | 82/- |
| | P | [mm] | 160 | 160 | 160 |
| | C | [mm] | - | - | - |
| | B | [mm] | - | - | - |
| A | [mm] | - | - | - | |
| K | [mm] | - | - | - | |
| | Peso NB ¹⁾ | [kg] | 32/- | 32/- | 32/- |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 32-160.1
4 polos



TM03 5118 4106

TM03 4180 1806

TM03 6005 4106

Datos técnicos

NB, NK 32-160.1
4 polos

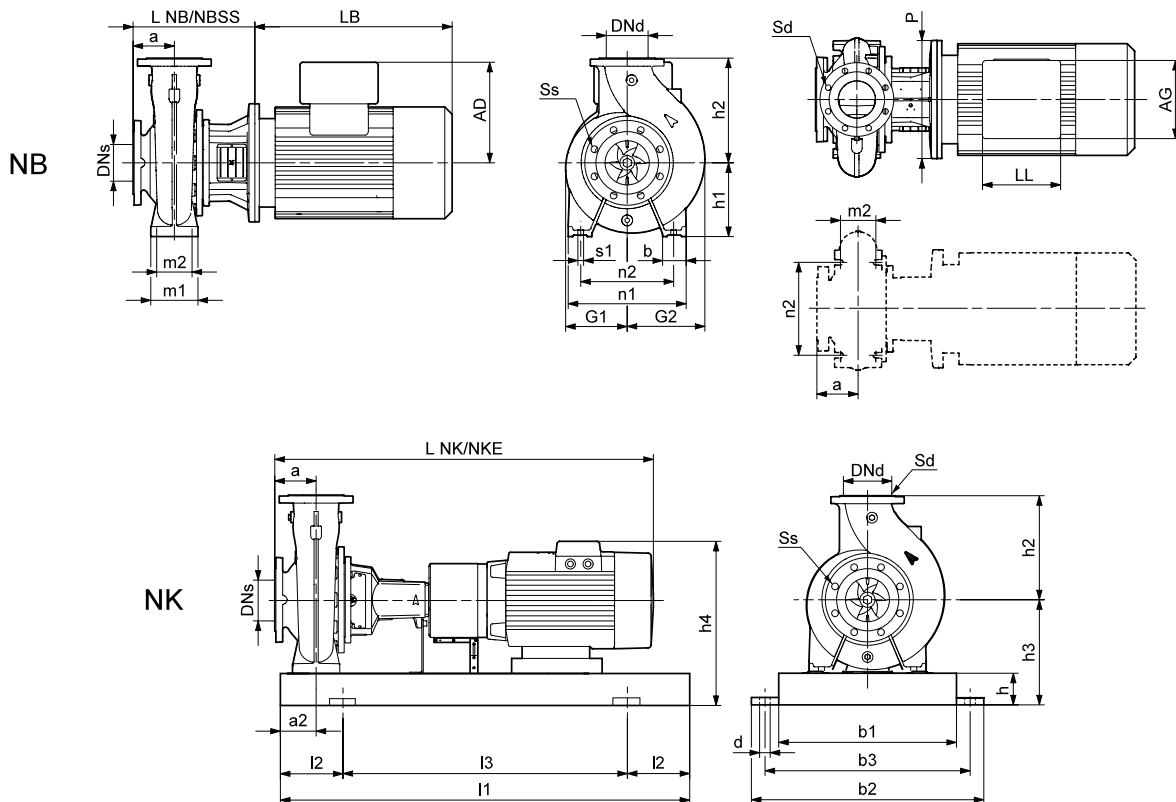
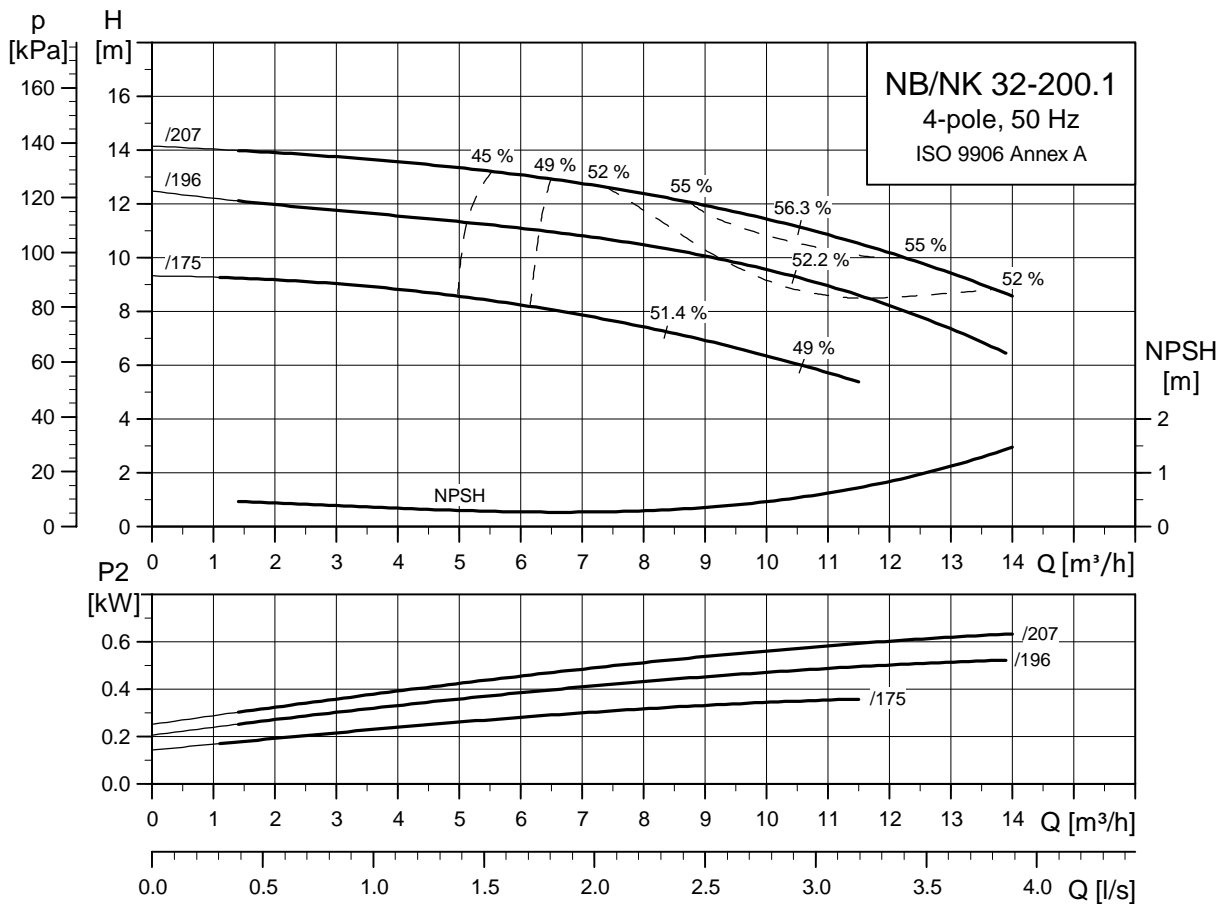
| Tipo de bomba | | 32-160.1/137 | 32-160.1/155 | 32-160.1/172 | 32-160.1/177 | |
|----------------------------------------|------------------------------|--------------|--------------|--------------|--------------|---------|
| Tipo de motor | Motor de gama alta | MG 71A-C | MG 71A-C | MG 71B-C | MG 80A-C | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 0.25 | 0.25 | 0.37 | 0.55 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 160 | 160 | 160 | 160 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 675/761 | 675/761 | 675/761 | 715/811 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 98/98 | 98/98 | 99/99 | 102/102 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 212 | 212 | 212 | 212 |
| | h ₄ ¹⁾ | [mm] | 321/- | 321/- | 321/- | 321/- |
| Número de bancada | | 4 | 4 | 4 | 4 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 201 | 201 | 201 | 226 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 132 | 132 | 132 | 132 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 123 | 123 | 123 | 123 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 191/- | 191/- | 191/- | 231/- |
| | AD ¹⁾ | [mm] | 109/- | 109/- | 109/- | 109/- |
| | AG ¹⁾ | [mm] | 82/- | 82/- | 82/- | 82/- |
| | LL ¹⁾ | [mm] | 82/- | 82/- | 82/- | 82/- |
| | P | [mm] | 160 | 160 | 160 | 200 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 33/- | 33/- | 33/- | 37/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 32-200.1
4 polos



TM03 5119 4106

TM03 4180 1806

TM03 6005 4106

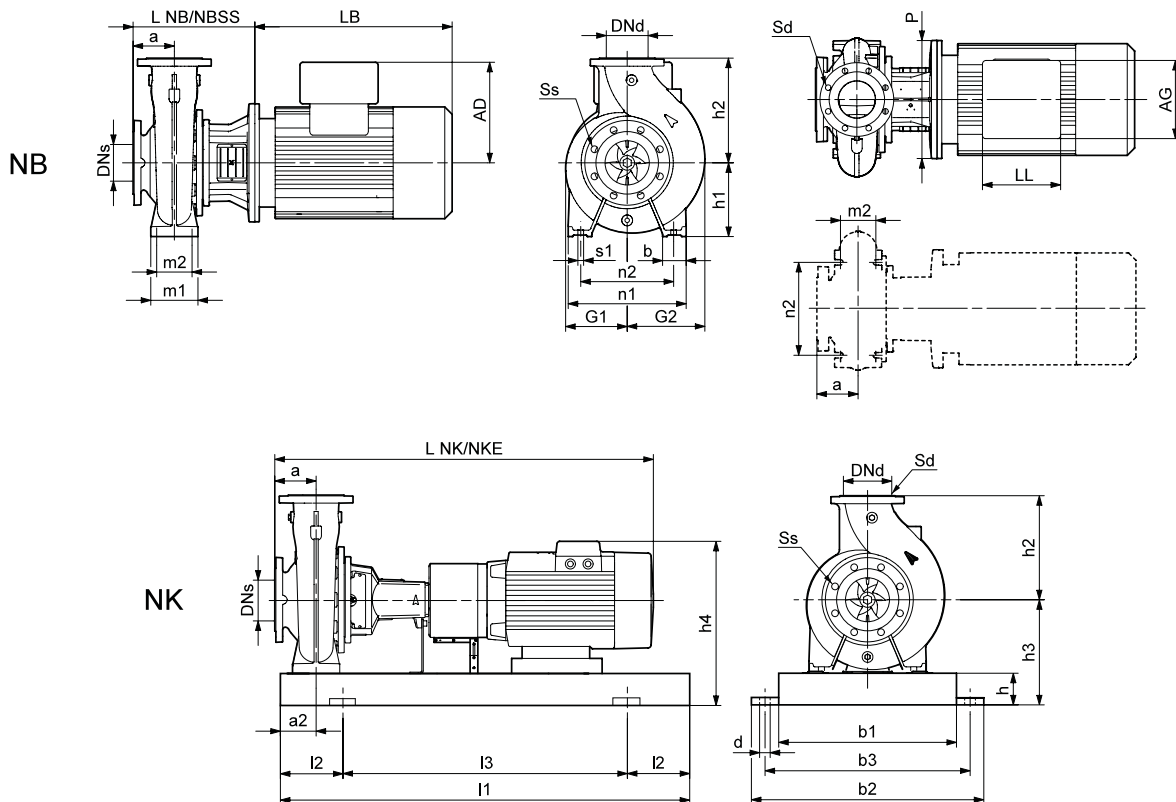
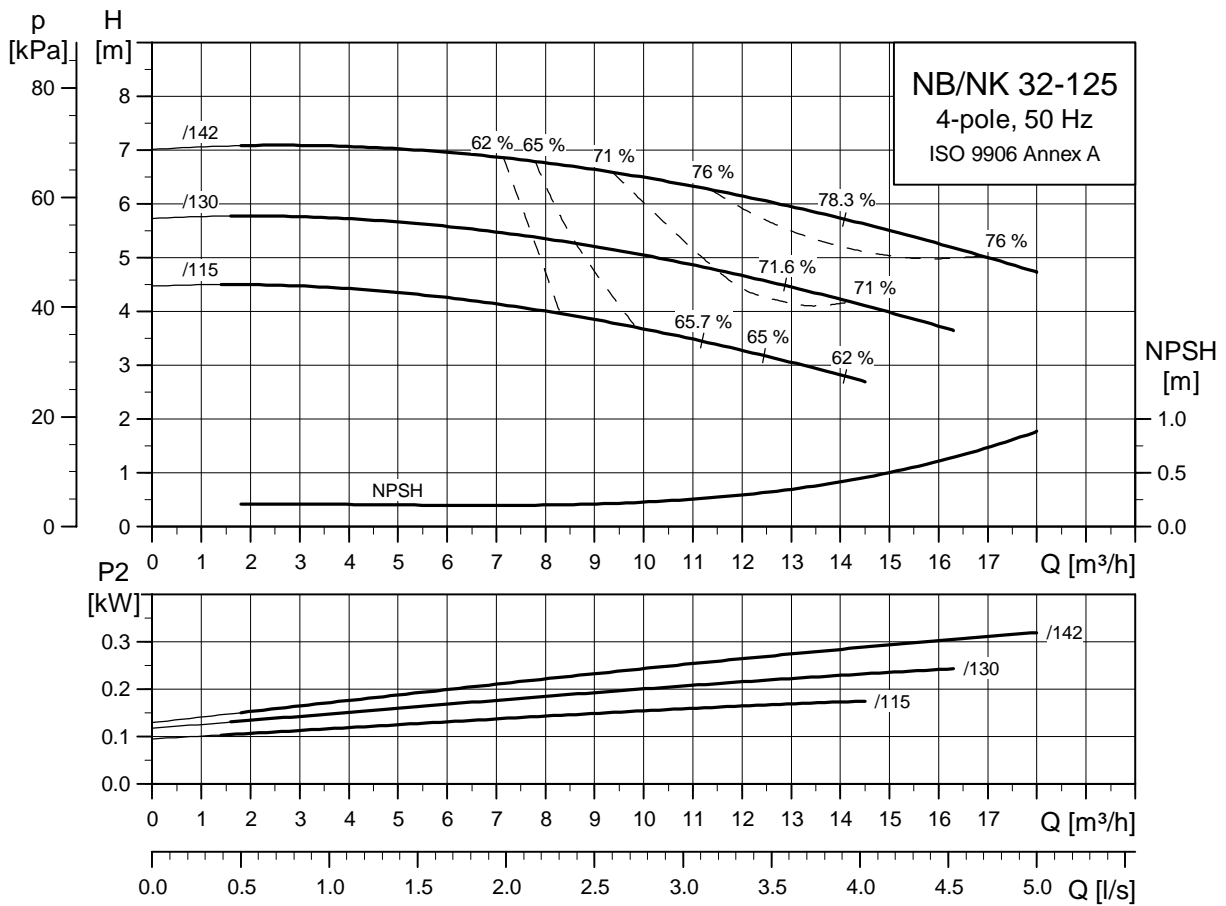
| Tipo de bomba | | 32-200.1/175 | 32-200.1/196 | 32-200.1/207 | | |
|----------------------------------------|------------------------------|------------------|--------------|--------------|---------|---------|
| Tipo de motor | Motor de gama alta | MG 71B-C | MG 80A-C | MG 80B-C | | |
| | Motor eléctrico | - | - | MGE 90SA | | |
| Datos generales NB/NK | P ₂ | [kW] | 0.37 | 0.55 | 0.75 | |
| | PN | [bar] | 16 | 16 | 16 | |
| | DNs | [mm] | 50 | 50 | 50 | |
| | DNd | [mm] | 32 | 32 | 32 | |
| | a | [mm] | 80 | 80 | 80 | |
| | h ₂ | [mm] | 180 | 180 | 180 | |
| | Ss | | 4x19 | 4x19 | 4x19 | |
| | Sd | | 4x19 | 4x19 | | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 675/761 | 715/811 | 715/811 | |
| | L NKE | [mm] | -/- | -/- | 805/901 | |
| | Peso NK | [kg] | 108/108 | 110/110 | 111/111 | |
| | Peso NKE | [kg] | -/- | -/- | 122/121 | |
| | Peso NK SS | [kg] | -/- | -/- | -/- | |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1000 | |
| | l ₂ | [mm] | 170 | 170 | 170 | |
| | l ₃ | [mm] | 660 | 660 | 660 | |
| | b ₁ | [mm] | 340 | 340 | 340 | |
| | b ₂ | [mm] | 450 | 450 | 450 | |
| | b ₃ | [mm] | 400 | 400 | 400 | |
| | d | [mm] | 24 | 24 | 24 | |
| | a ₂ | [mm] | 60 | 60 | 60 | |
| | h | [mm] | 80 | 80 | 80 | |
| | h ₃ | [mm] | 240 | 240 | 240 | |
| | h ₄ ¹⁾ | [mm] | 349/- | 349/- | 349/407 | |
| | Número de bancada | | 4 | 4 | 4 | |
| Datos NB | Diseño | | A | A | A | |
| | L NB | [mm] | 243 | 226 | 226 | |
| | L NB SS | [mm] | - | - | - | |
| | h ₁ | [mm] | 160 | 160 | 160 | |
| | G ₁ | [mm] | 135 | 135 | 135 | |
| | G ₂ | [mm] | 137 | 137 | 137 | |
| | m ₁ | [mm] | 100 | 100 | 100 | |
| | m ₂ | [mm] | 70 | 70 | 70 | |
| | n ₁ | [mm] | 240 | 240 | 240 | |
| | n ₂ | [mm] | 190 | 190 | 190 | |
| | b | [mm] | 50 | 50 | 50 | |
| | s ₁ | [mm] | M12 | M12 | M12 | |
| | H | [mm] | - | - | - | |
| | | LB ¹⁾ | [mm] | 191/- | 231/- | 231/321 |
| | | AD ¹⁾ | [mm] | 109/- | 109/- | 109/167 |
| | | AG ¹⁾ | [mm] | 82/- | 82/- | 82/264 |
| | | LL ¹⁾ | [mm] | 82/- | 82/- | 82/260 |
| | | P | [mm] | 160 | 200 | 200 |
| | | C | [mm] | - | - | - |
| | | B | [mm] | - | - | - |
| | A | [mm] | - | - | - | |
| | K | [mm] | - | - | - | |
| | Peso NB ¹⁾ | [kg] | 45/- | 44/- | 45/56 | |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 32-125
4 polos



TM03 5120 4106

TM03 4180 1806

TM03 6005 4106

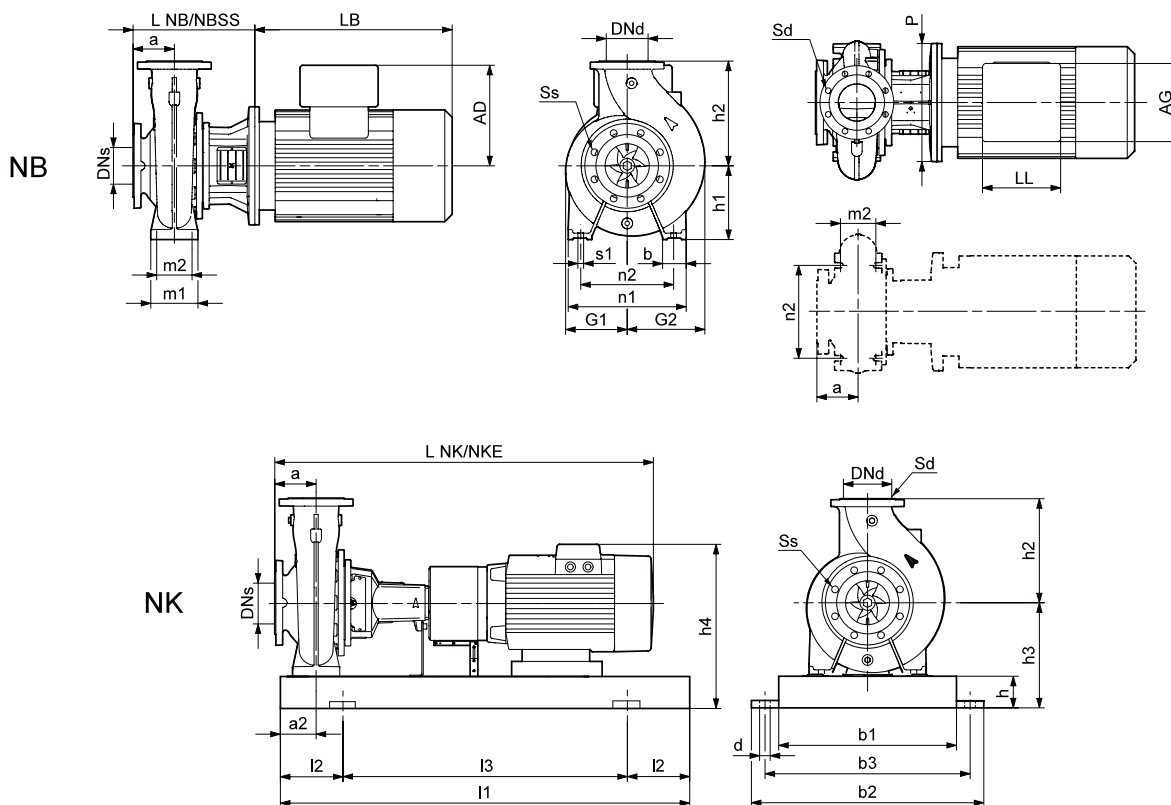
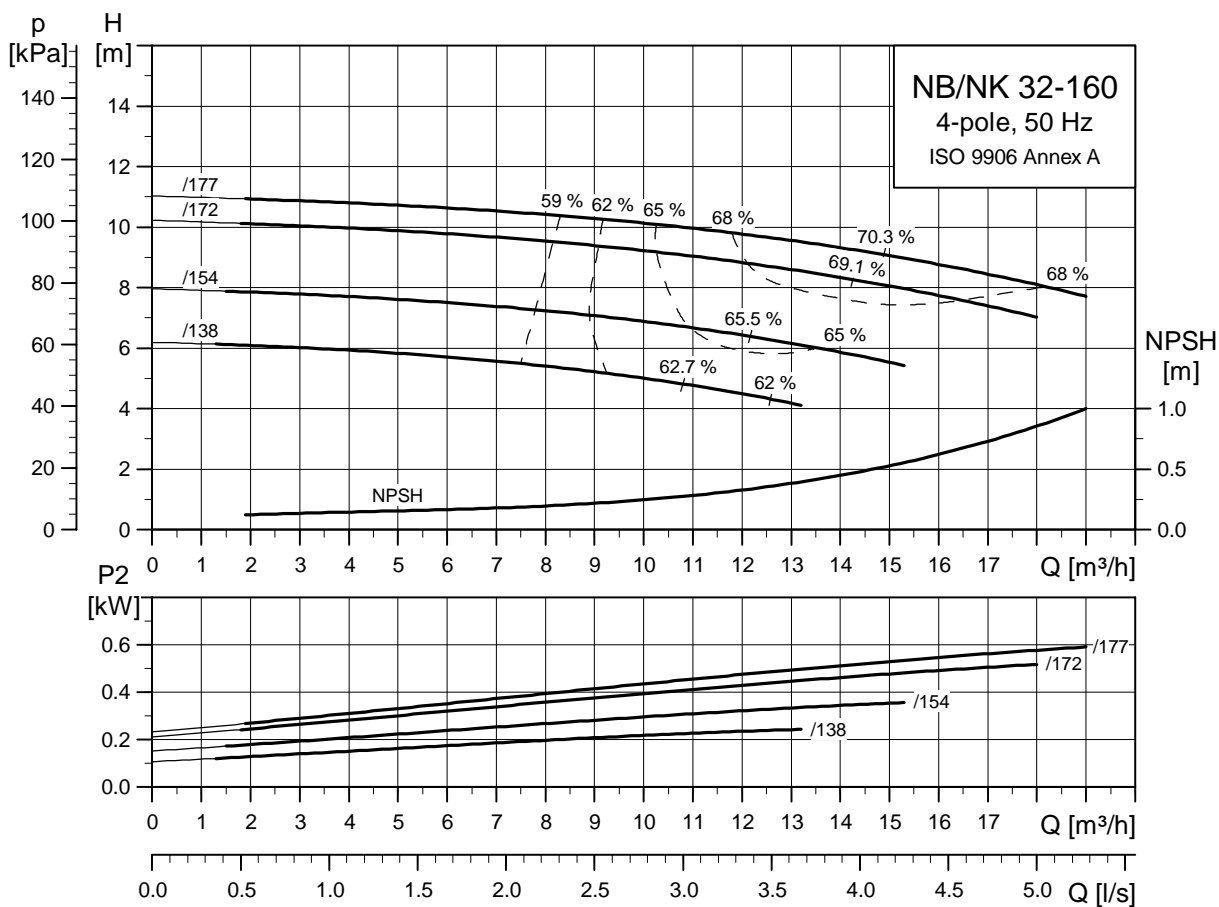
| Tipo de bomba | | 32-125/115 | 32-125/130 | 32-125/142 | |
|----------------------------------------|------------------------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 71A-C | MG 71A-C | MG 71B-C | |
| | Motor eléctrico | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 0.25 | 0.25 | 0.37 |
| | PN | [bar] | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 |
| | h ₂ | [mm] | 140 | 140 | 140 |
| | Ss | | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 675/761 | 675/761 | 675/761 |
| | L NKE | [mm] | -/- | -/- | -/- |
| | Peso NK | [kg] | 80/80 | 80/80 | 80/80 |
| | Peso NKE | [kg] | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 800 | 800 | 800 |
| | l ₂ | [mm] | 130 | 130 | 130 |
| | l ₃ | [mm] | 540 | 540 | 540 |
| | b ₁ | [mm] | 270 | 270 | 270 |
| | b ₂ | [mm] | 360 | 360 | 360 |
| | b ₃ | [mm] | 320 | 320 | 320 |
| | d | [mm] | 19 | 19 | 19 |
| | a ₂ | [mm] | 60 | 60 | 60 |
| | h | [mm] | 65 | 65 | 65 |
| | h ₃ | [mm] | 177 | 177 | 177 |
| | h ₄ ¹⁾ | [mm] | 286/- | 286/- | 286/- |
| | Número de bancada | | 2 | 2 | 2 |
| Datos NB | Diseño | | A | A | A |
| | L NB | [mm] | 201 | 201 | 201 |
| | L NB SS | [mm] | - | - | - |
| | h ₁ | [mm] | 112 | 112 | 112 |
| | G ₁ | [mm] | 117 | 117 | 117 |
| | G ₂ | [mm] | 117 | 117 | 117 |
| | m ₁ | [mm] | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 |
| | n ₁ | [mm] | 190 | 190 | 190 |
| | n ₂ | [mm] | 140 | 140 | 140 |
| | b | [mm] | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 |
| | H | [mm] | - | - | - |
| | LB ¹⁾ | [mm] | 191/- | 191/- | 191/- |
| | AD ¹⁾ | [mm] | 109/- | 109/- | 109/- |
| | AG ¹⁾ | [mm] | 82/- | 82/- | 82/- |
| | LL ¹⁾ | [mm] | 82/- | 82/- | 82/- |
| | P | [mm] | 160 | 160 | 160 |
| | C | [mm] | - | - | - |
| | B | [mm] | - | - | - |
| A | [mm] | - | - | - | |
| K | [mm] | - | - | - | |
| | Peso NB ¹⁾ | [kg] | 32/- | 32/- | 33/- |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 32-160
4 polos



TM03 5121 4106

TM03 4180 1806

TM03 6005 4106

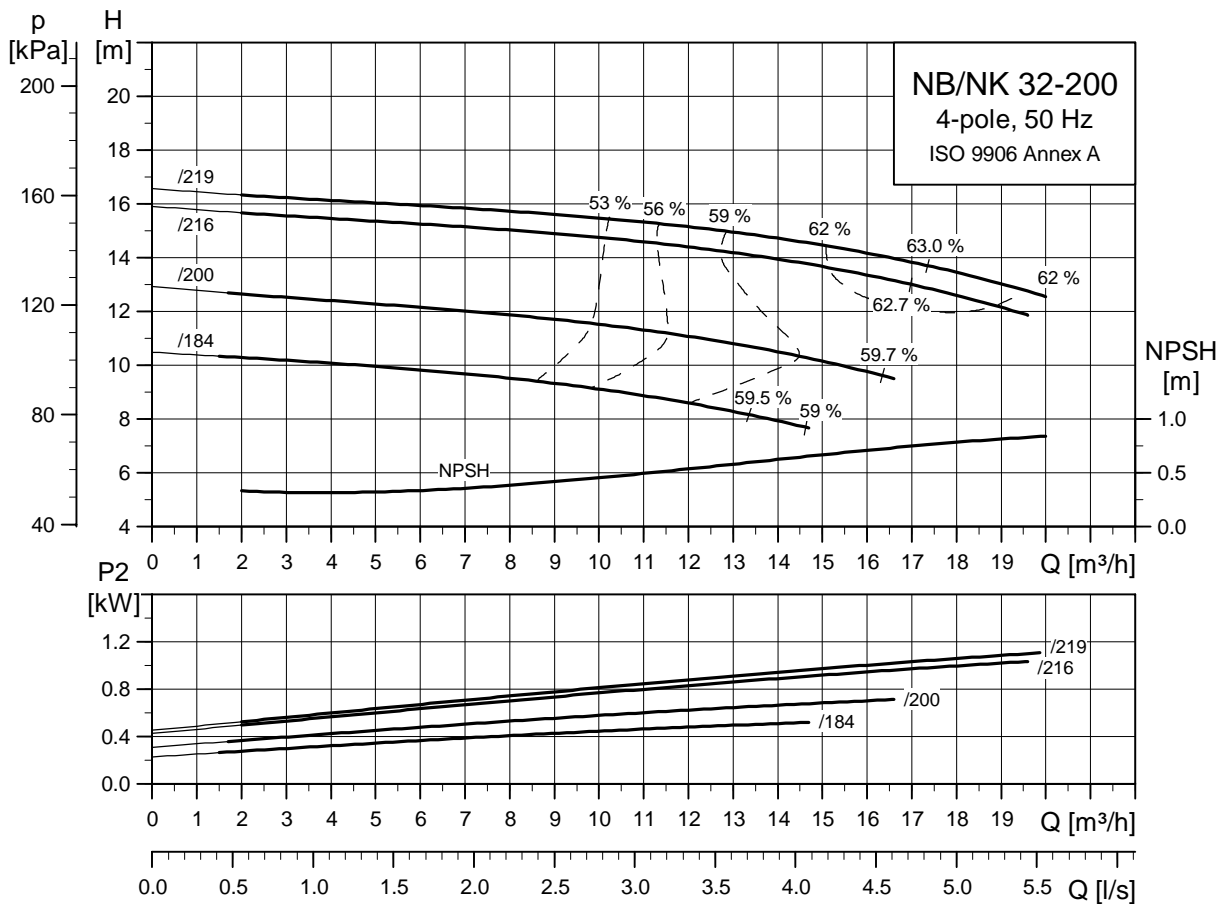
| Tipo de bomba | | 32-160/138 | 32-160/154 | 32-160/172 | 32-160/177 | |
|-----------------------------------------|------------------------------|------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 71A-C | MG 71B-C | MG 80A-C | MG 80B-C | |
| | Motor eléctrico | - | - | - | MGE 90SA | |
| Datos generales NB/NK | P ₂ | [kW] | 0.25 | 0.37 | 0.55 | 0.75 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 160 | 160 | 160 | 160 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/ espaciador | L NK | [mm] | 675/761 | 675/761 | 715/811 | 715/811 |
| | L NKE | [mm] | -/- | -/- | -/- | 805/901 |
| | Peso NK | [kg] | 99/99 | 100/100 | 103/103 | 104/104 |
| | Peso NKE | [kg] | -/- | -/- | -/- | 117/116 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 212 | 212 | 212 | 212 |
| | h ₄ ¹⁾ | [mm] | 321/- | 321/- | 321/- | 321/379 |
| Número de bancada | | 4 | 4 | 4 | 4 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 201 | 201 | 226 | 226 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 132 | 132 | 132 | 132 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 125 | 125 | 125 | 125 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 191/- | 191/- | 231/- | 231/321 |
| | AD ¹⁾ | [mm] | 109/- | 109/- | 109/- | 109/167 |
| | AG ¹⁾ | [mm] | 82/- | 82/- | 82/- | 82/264 |
| | LL ¹⁾ | [mm] | 82/- | 82/- | 82/- | 82/260 |
| | P | [mm] | 160 | 160 | 200 | 200 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 34/- | 34/- | 38/- | 39/50 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

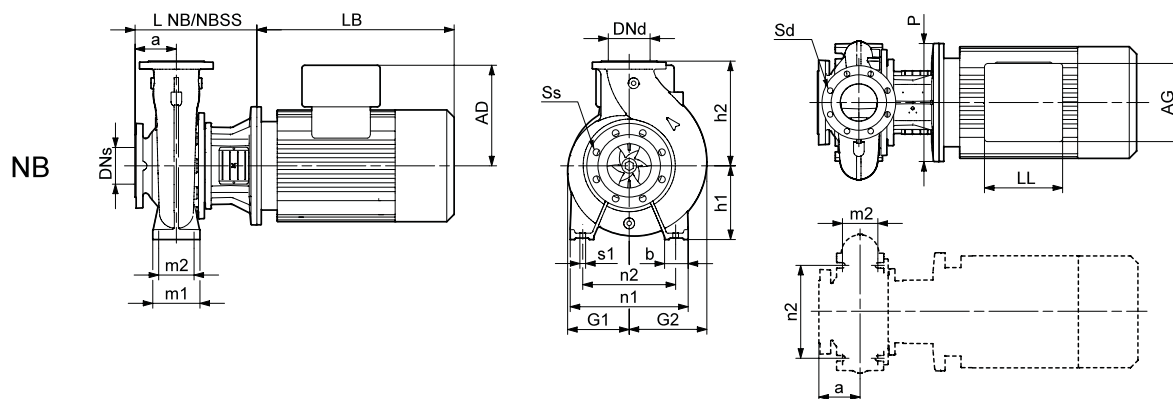
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

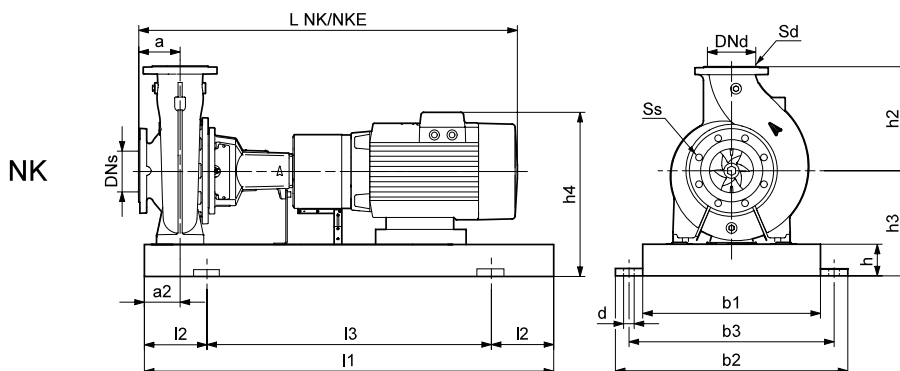
NB, NK 32-200
4 polos



TM03 5122 4106



TM03 4180 1806



TM03 6005 4106

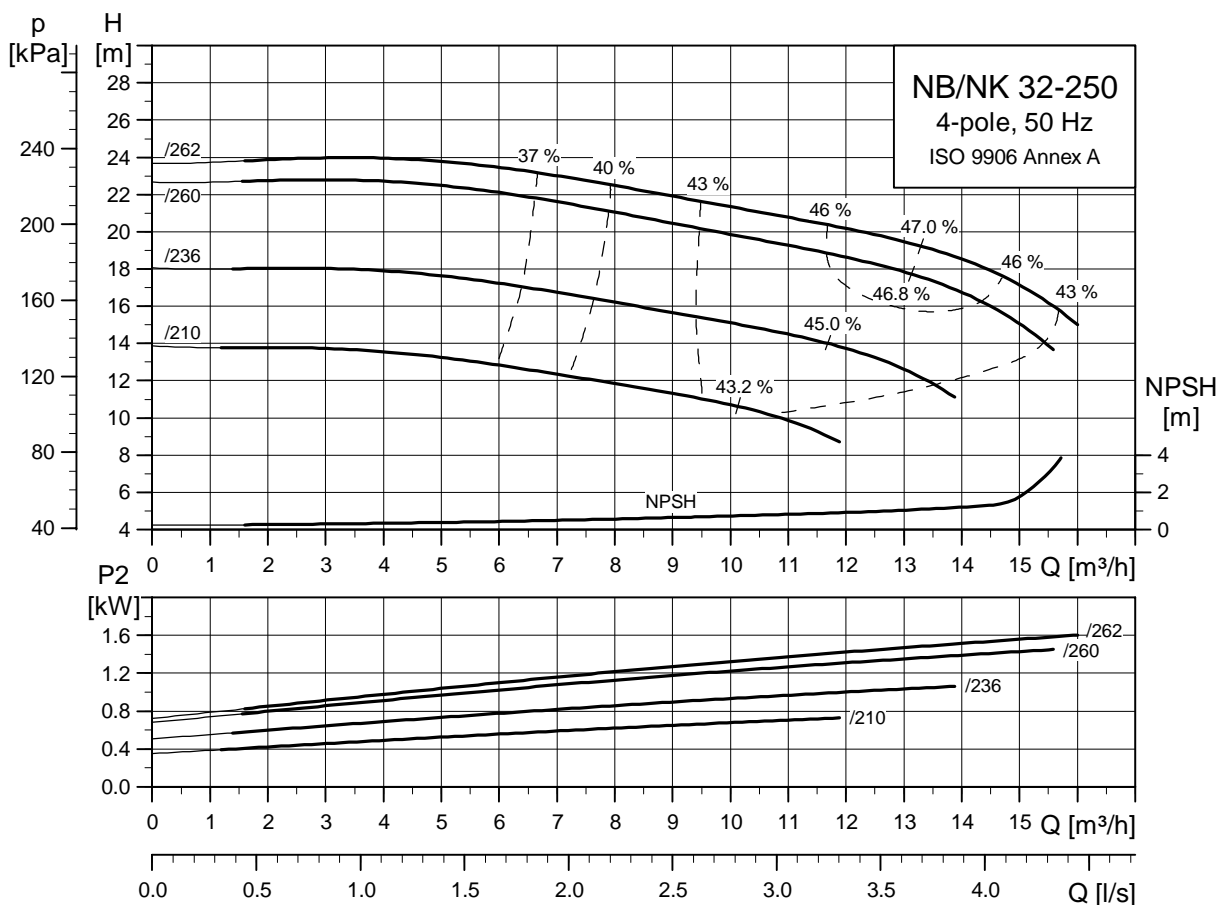
| Tipo de bomba | | 32-200/184 | 32-200/200 | 32-200/216 | 32-200/219 | |
|----------------------------------------|--------------------|------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 80A-C | MG 80B-C | MG 90SB-D | MG 90LC-D | |
| | Motor eléctrico | - | MGE 90SA | MGE 90SB | MGE 90LC | |
| Datos generales NB/NK | P ₂ | [kW] | 0.55 | 0.75 | 1.1 | 1.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 180 | 180 | 180 | 180 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 715/811 | 715/811 | 775/871 | 815/911 |
| | L NKE | [mm] | -/- | 805/901 | 815/911 | 815/911 |
| | Peso NK | [kg] | 110/110 | 112/112 | 121/121 | 122/122 |
| | Peso NKE | [kg] | -/- | 122/121 | 128/127 | 129/128 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 240 | 240 |
| h ₄ ¹⁾ | [mm] | 349/- | 349/407 | 350/407 | 350/407 | |
| Número de bancada | | 4 | 4 | 4 | 4 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 226 | 226 | 226 | 226 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 160 | 160 | 160 | 160 |
| | G ₁ | [mm] | 124 | 124 | 124 | 124 |
| | G ₂ | [mm] | 145 | 145 | 145 | 145 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 231/- | 231/321 | 281/321 | 321/321 |
| | AD ¹⁾ | [mm] | 109/- | 109/167 | 110/167 | 110/167 |
| | AG ¹⁾ | [mm] | 82/- | 82/264 | 162/264 | 162/264 |
| | LL ¹⁾ | [mm] | 82/- | 82/260 | 103/260 | 103/260 |
| | P | [mm] | 200 | 200 | 200 | 200 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 44/- | 45/56 | 56/62 | 57/63 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

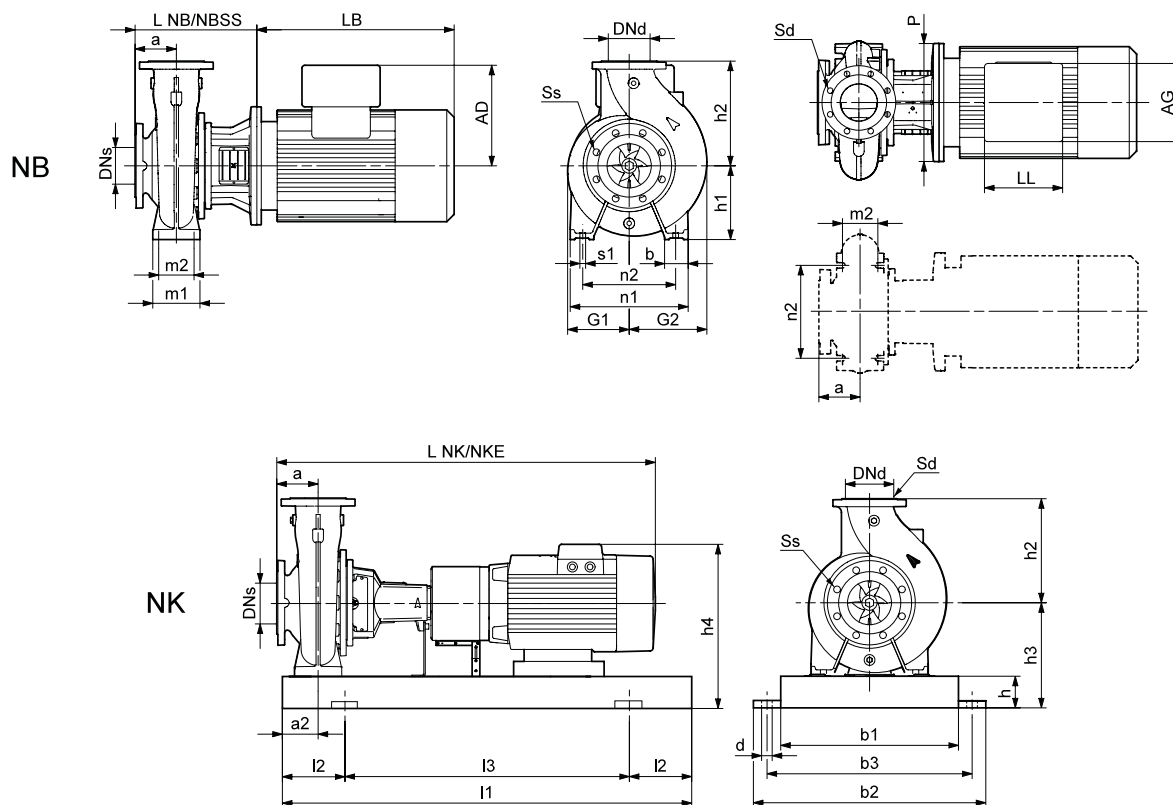
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 32-250
4 polos



TM03 5123 4106



TM03 4180 1806

TM03 6005 4106

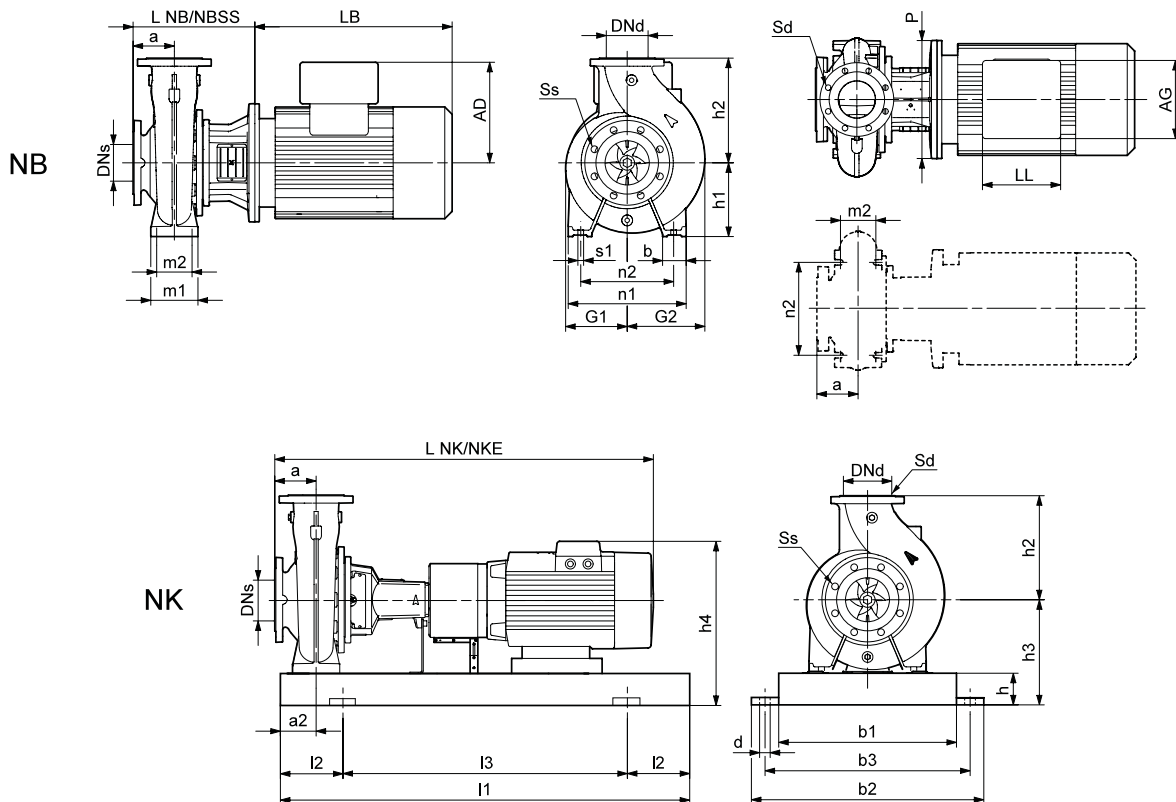
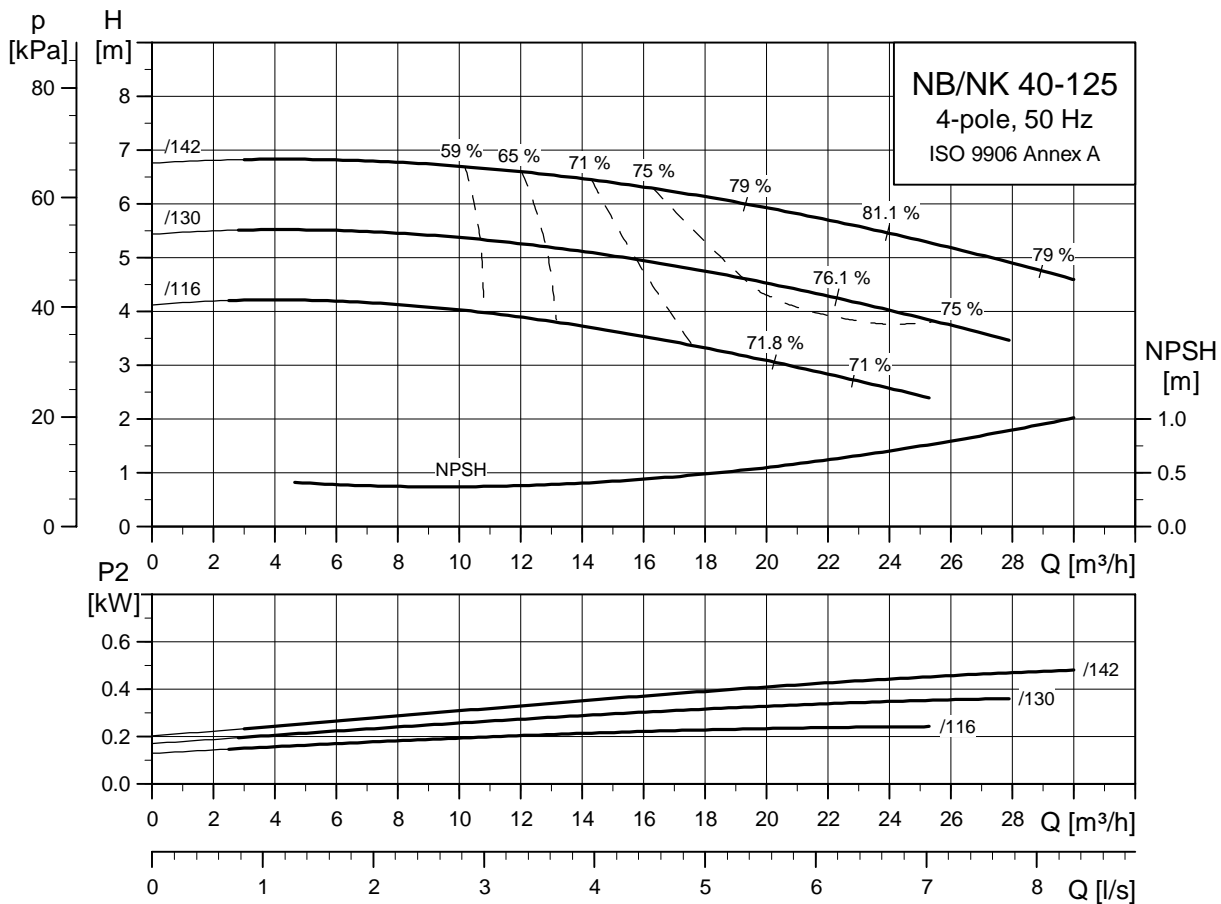
| Tipo de bomba | | 32-250/210 | 32-250/236 | 32-250/260 | 32-250/262 | |
|----------------------------------------|------------------------------|------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 80B-C | MG 90SB-D | MG 90LC-D | MG 100LB-D | |
| | Motor eléctrico | MGE 90SA | MGE 90SB | MGE 90LC | MGE 100LB | |
| Datos generales NB/NK | P ₂ | [kW] | 0.75 | 1.1 | 1.5 | 2.2 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 50 | 50 | 50 | 50 |
| | DNd | [mm] | 32 | 32 | 32 | 32 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 225 | 225 | 225 | 225 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| | L NK | [mm] | 735/831 | 795/891 | 835/931 | 859/955 |
| | L NKE | [mm] | 825/921 | 835/931 | 835/931 | 859/955 |
| | Peso NK | [kg] | 134/134 | 145/144 | 146/145 | 151/149 |
| | Peso NKE | [kg] | 146/145 | 152/151 | 153/152 | 162/160 |
| | Peso NK SS | [kg] | 138/137 | 149/149 | 150/150 | 155/153 |
| Datos NK | Peso NKE SS | [kg] | 150/149 | 156/155 | 157/156 | 166/164 |
| | l ₁ | [mm] | 1120 | 1120 | 1120 | 1120 |
| | l ₂ | [mm] | 190 | 190 | 190 | 190 |
| | l ₃ | [mm] | 740 | 740 | 740 | 740 |
| | b ₁ | [mm] | 380 | 380 | 380 | 380 |
| | b ₂ | [mm] | 490 | 490 | 490 | 490 |
| | b ₃ | [mm] | 440 | 440 | 440 | 440 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 260 | 260 | 260 | 260 |
| Datos NB | h ₄ ¹⁾ | [mm] | 369/427 | 370/427 | 370/427 | 380/437 |
| | Número de bancada | | 5 | 5 | 5 | 5 |
| | Diseño | | A | A | A | A |
| | L NB | [mm] | 273 | 273 | 273 | 293 |
| | L NB SS | [mm] | 273 | 273 | 273 | 293 |
| | h ₁ | [mm] | 180 | 180 | 180 | 180 |
| | G ₁ | [mm] | 162 | 162 | 162 | 162 |
| | G ₂ | [mm] | 164 | 164 | 164 | 164 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 320 | 320 | 320 | 320 |
| | n ₂ | [mm] | 250 | 250 | 250 | 250 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 231/321 | 281/321 | 321/321 | 335/335 |
| | AD ¹⁾ | [mm] | 109/167 | 110/167 | 110/167 | 120/177 |
| | AG ¹⁾ | [mm] | 82/264 | 162/264 | 162/264 | 162/264 |
| | LL ¹⁾ | [mm] | 82/260 | 103/260 | 103/260 | 103/260 |
| P | [mm] | 200 | 200 | 200 | 250 | |
| C | [mm] | - | - | - | - | |
| B | [mm] | - | - | - | - | |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 58/69 | 69/75 | 70/76 | 77/85 | |
| Peso NB SS ¹⁾ | [kg] | 62/73 | 73/79 | 74/80 | 82/89 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 40-125
4 polos



TM03 5124 4106

TM03 4180 1806

TM03 6005 4106

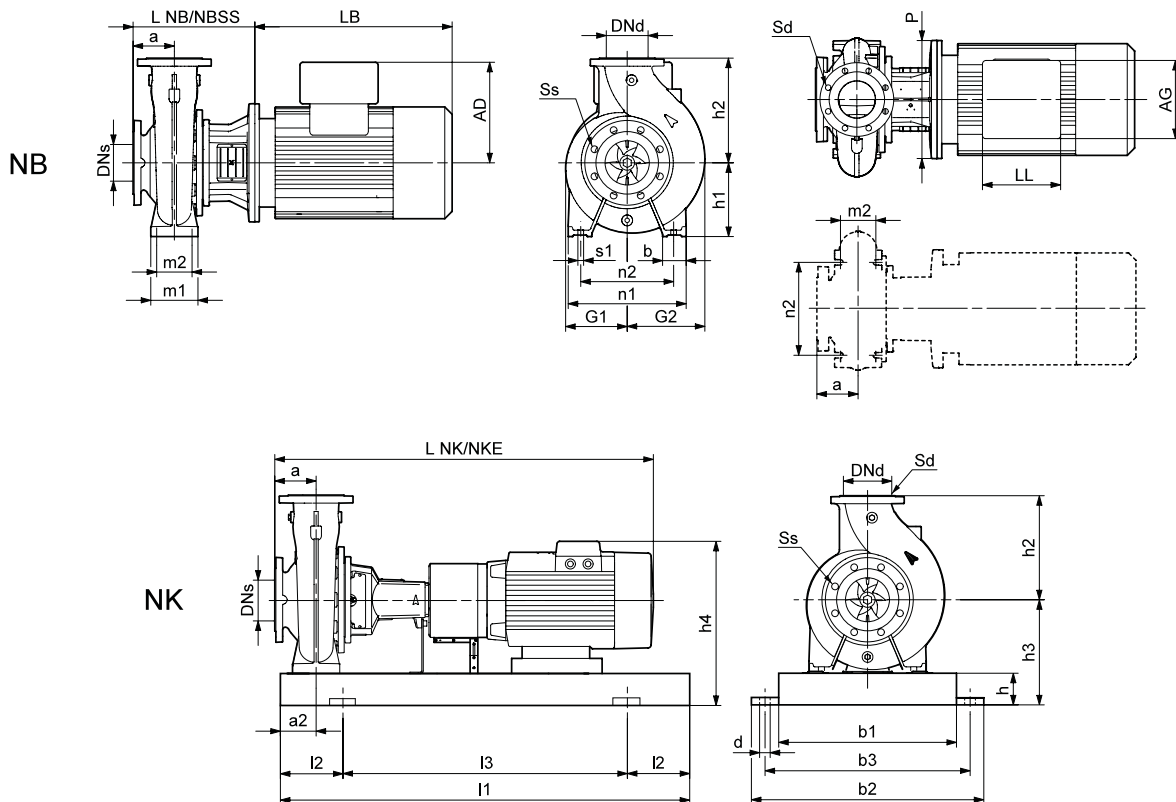
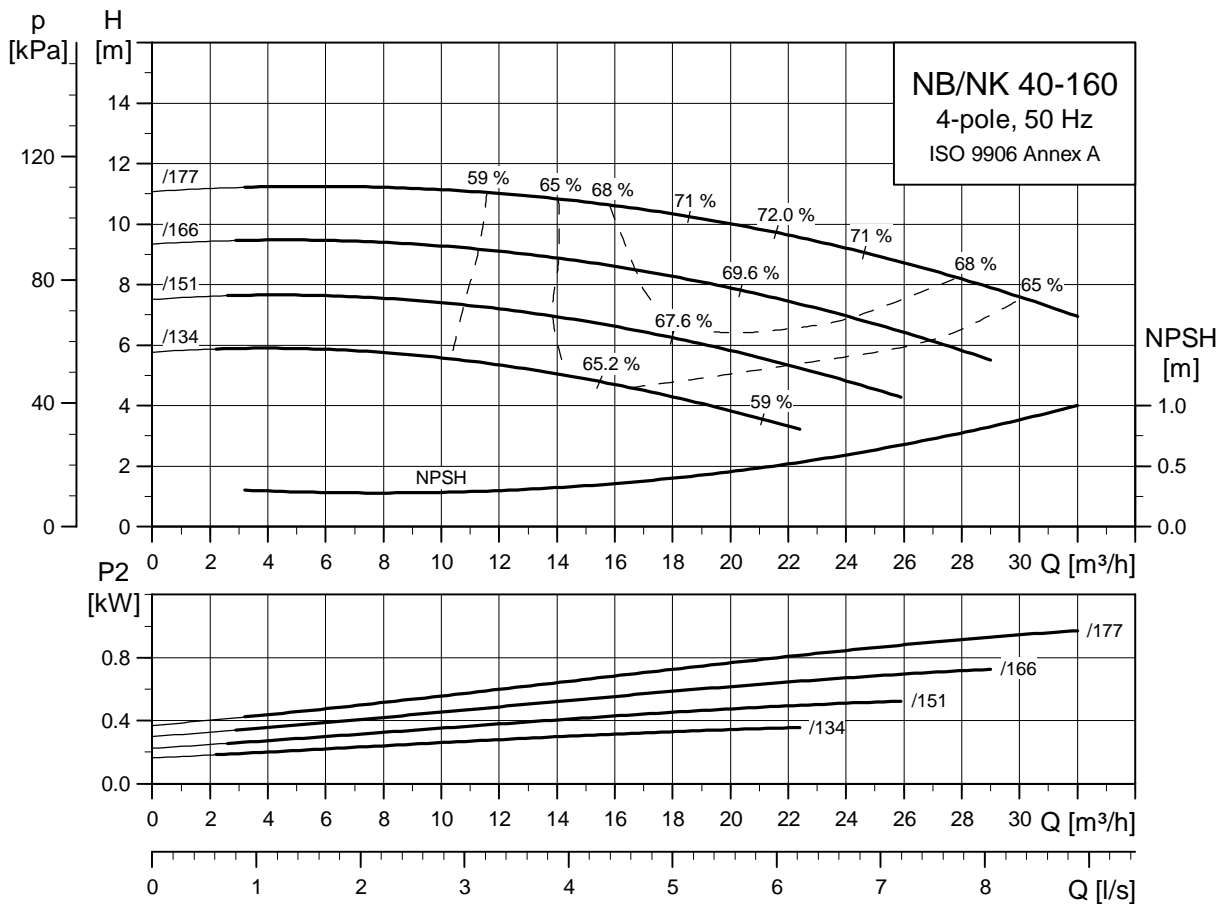
| Tipo de bomba | | 40-125/116 | 40-125/130 | 40-125/142 | |
|----------------------------------------|------------------------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 71A-C | MG 71B-C | MG 80A-C | |
| | Motor eléctrico | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 0.25 | 0.37 | 0.55 |
| | PN | [bar] | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 |
| | a | [mm] | 80 | 80 | 80 |
| | h ₂ | [mm] | 140 | 140 | 140 |
| | Ss | | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | |
| | L NK | [mm] | 675/761 | 675/761 | 715/811 |
| | L NKE | [mm] | -/- | -/- | -/- |
| | Peso NK | [kg] | 89/89 | 90/90 | 91/91 |
| | Peso NKE | [kg] | -/- | -/- | -/- |
| | Peso NK SS | [kg] | 90/90 | 91/90 | 92/91 |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- |
| | l ₁ | [mm] | 900 | 900 | 900 |
| | l ₂ | [mm] | 150 | 150 | 150 |
| | l ₃ | [mm] | 600 | 600 | 600 |
| | b ₁ | [mm] | 300 | 300 | 300 |
| | b ₂ | [mm] | 390 | 390 | 390 |
| | b ₃ | [mm] | 345 | 345 | 345 |
| | d | [mm] | 19 | 19 | 19 |
| | a ₂ | [mm] | 60 | 60 | 60 |
| | h | [mm] | 65 | 65 | 65 |
| | h ₃ | [mm] | 177 | 177 | 177 |
| Datos NB | h ₄ ¹⁾ | [mm] | 286/- | 286/- | 286/- |
| | Número de bancada | | 3 | 3 | 3 |
| | Diseño | | A | A | A |
| | L NB | [mm] | 201 | 201 | 226 |
| | L NB SS | [mm] | 243 | 243 | 253 |
| | h ₁ | [mm] | 112 | 112 | 112 |
| | G ₁ | [mm] | 117 | 117 | 117 |
| | G ₂ | [mm] | 118 | 118 | 118 |
| | m ₁ | [mm] | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 |
| | n ₁ | [mm] | 210 | 210 | 210 |
| | n ₂ | [mm] | 160 | 160 | 160 |
| | b | [mm] | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 |
| | H | [mm] | - | - | - |
| | LB ¹⁾ | [mm] | 191/- | 191/- | 231/- |
| | AD ¹⁾ | [mm] | 109/- | 109/- | 109/- |
| | AG ¹⁾ | [mm] | 82/- | 82/- | 82/- |
| | LL ¹⁾ | [mm] | 82/- | 82/- | 82/- |
| | P | [mm] | 160 | 160 | 200 |
| C | [mm] | - | - | - | |
| B | [mm] | - | - | - | |
| A | [mm] | - | - | - | |
| K | [mm] | - | - | - | |
| Peso NB ¹⁾ | [kg] | 35/- | 35/- | 39/- | |
| Peso NB SS ¹⁾ | [kg] | 39/- | 39/- | 42/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 40-160
4 polos



TM03 5125 4106

TM03 4180 1806

TM03 6005 4106

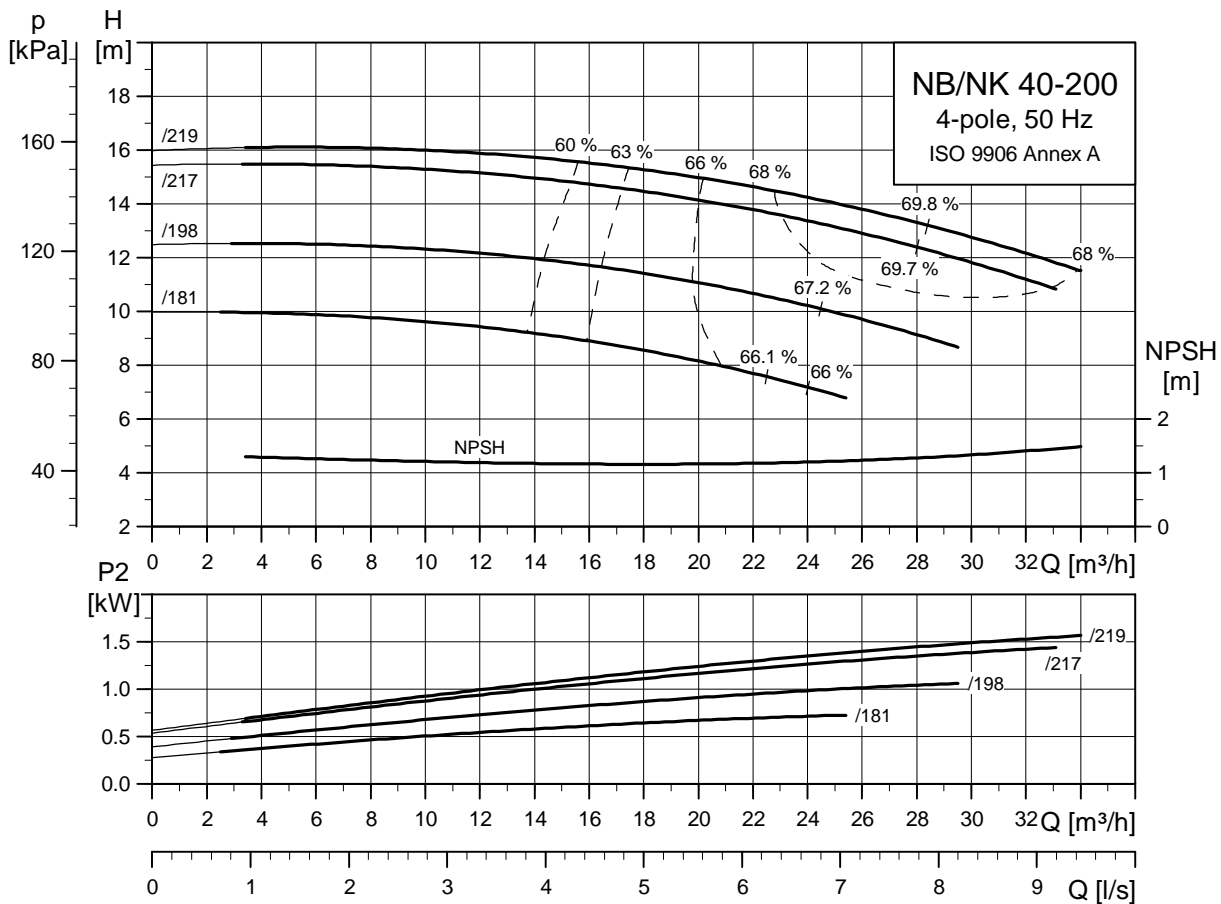
| Tipo de bomba | | 40-160/134 | 40-160/151 | 40-160/166 | 40-160/177 | |
|----------------------------------------|--------------------|------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 71B-C | MG 80A-C | MG 80B-C | MG 90SB-D | |
| | Motor eléctrico | - | - | MGE 90SA | MGE 90SB | |
| Datos generales NB/NK | P ₂ | [kW] | 0.37 | 0.55 | 0.75 | 1.1 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 | 40 |
| | a | [mm] | 80 | 80 | 80 | 80 |
| | h ₂ | [mm] | 160 | 160 | 160 | 160 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 675/761 | 715/811 | 715/811 | 775/871 |
| | L NKE | [mm] | -/- | -/- | 805/901 | 815/911 |
| | Peso NK | [kg] | 102/102 | 105/105 | 106/106 | 118/118 |
| | Peso NKE | [kg] | -/- | -/- | 119/118 | 125/124 |
| | Peso NK SS | [kg] | 103/102 | 106/105 | 107/106 | 120/119 |
| Peso NKE SS | [kg] | -/- | -/- | 120/119 | 126/125 | |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 212 | 212 | 212 | 212 |
| h ₄ ¹⁾ | [mm] | 321/- | 321/- | 321/379 | 322/379 | |
| Número de bancada | | 4 | 4 | 4 | 4 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 201 | 226 | 226 | 226 |
| | L NB SS | [mm] | 243 | 253 | 253 | 253 |
| | h ₁ | [mm] | 132 | 132 | 132 | 132 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 133 | 133 | 133 | 133 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 191/- | 231/- | 231/321 | 281/321 |
| | AD ¹⁾ | [mm] | 109/- | 109/- | 109/167 | 110/167 |
| | AG ¹⁾ | [mm] | 82/- | 82/- | 82/264 | 162/264 |
| | LL ¹⁾ | [mm] | 82/- | 82/- | 82/260 | 103/260 |
| | P | [mm] | 160 | 200 | 200 | 200 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 36/- | 40/- | 41/52 | 52/58 | |
| Peso NB SS ¹⁾ | [kg] | 41/- | 44/- | 44/56 | 55/62 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

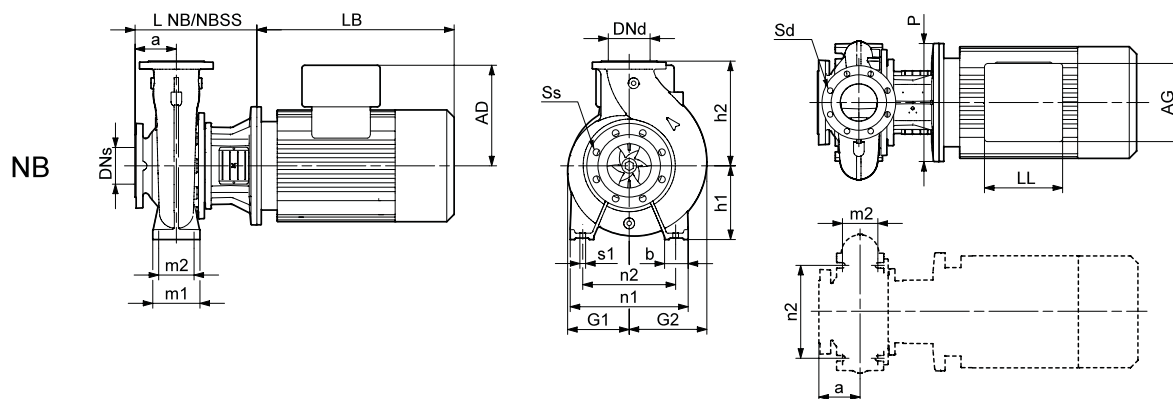
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

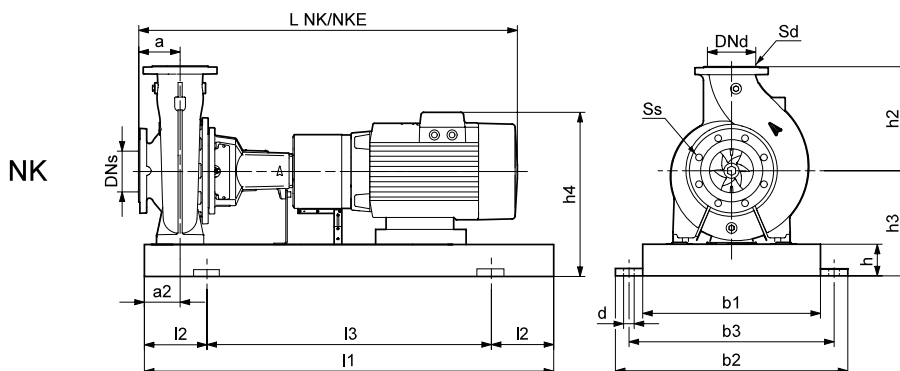
NB, NK 40-200
4 polos



TM03 5126 4106



TM03 4180 1806



TM03 6005 4106

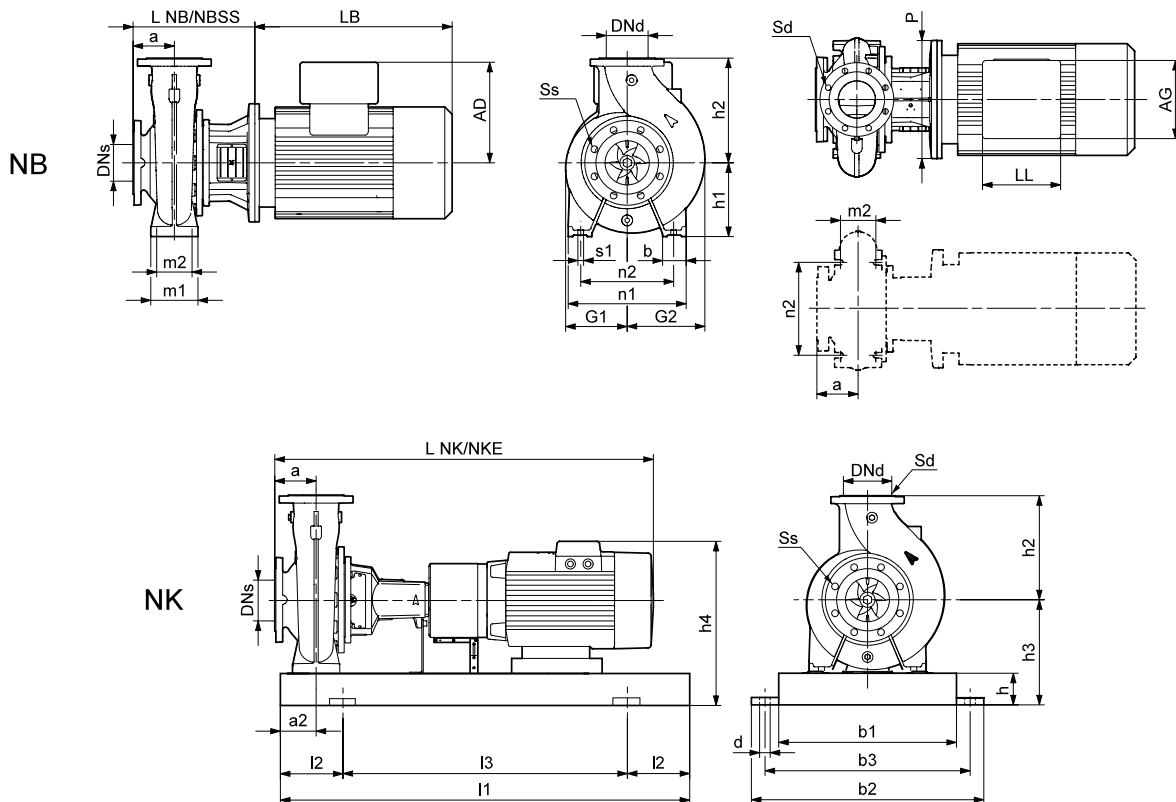
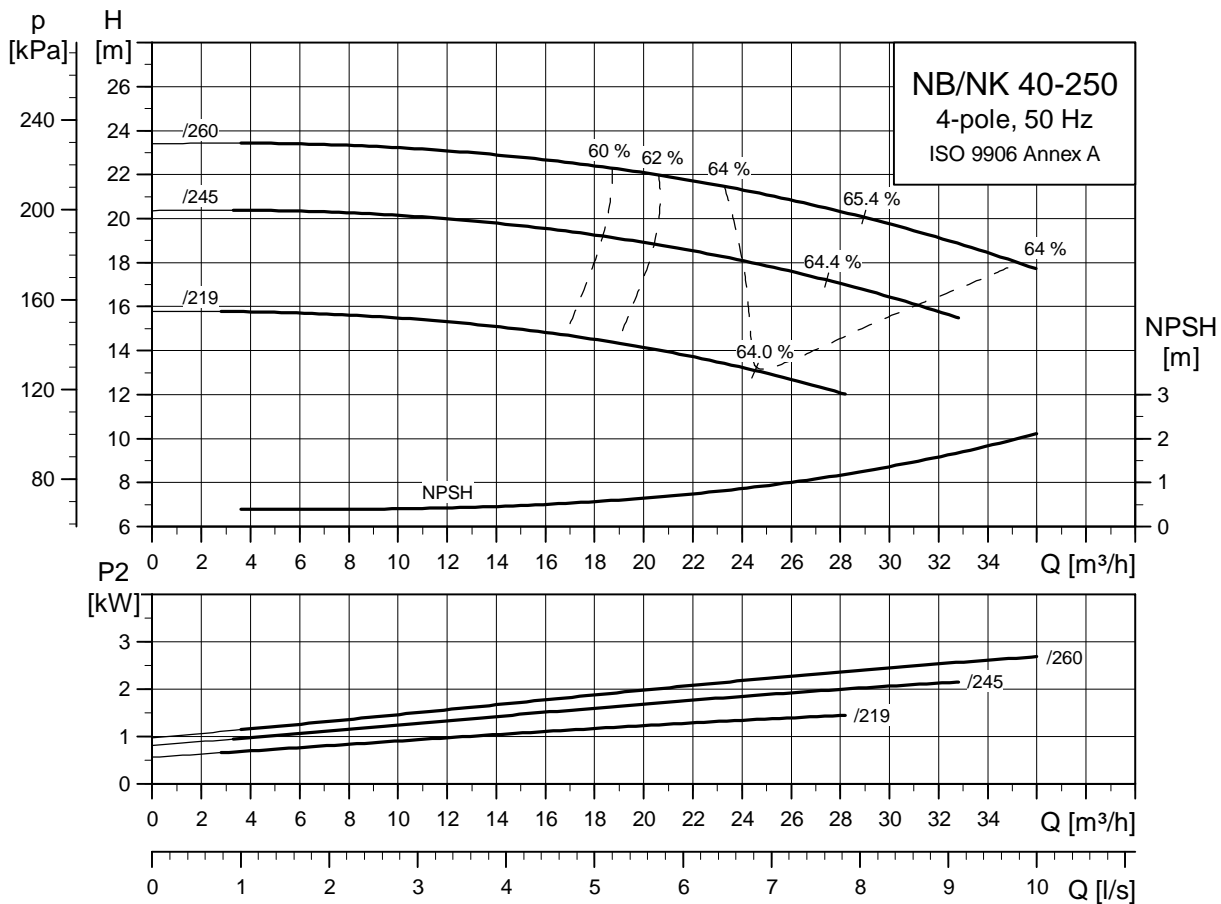
| Tipo de bomba | | 40-200/181 | 40-200/198 | 40-200/217 | 40-200/219 | |
|----------------------------------------|------------------------------|------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 80B-C | MG 90SB-D | MG 90LC-D | MG 100LB-D | |
| | Motor eléctrico | MGE 90SA | MGE 90SB | MGE 90LC | MGE 100LB | |
| Datos generales NB/NK | P ₂ | [kW] | 0.75 | 1.1 | 1.5 | 2.2 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 | 40 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 180 | 180 | 180 | 180 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| | L NK | [mm] | 735/831 | 795/891 | 835/931 | 859/955 |
| | L NKE | [mm] | 825/921 | 835/931 | 835/931 | 859/955 |
| | Peso NK | [kg] | 113/113 | 123/122 | 124/123 | 129/127 |
| | Peso NKE | [kg] | 123/122 | 129/128 | 130/129 | 140/138 |
| | Peso NK SS | [kg] | 116/116 | 126/125 | 127/126 | 132/130 |
| Datos NK | Peso NKE SS | [kg] | 127/126 | 133/132 | 134/133 | 143/141 |
| | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 240 | 240 |
| Datos NB | h ₄ ¹⁾ | [mm] | 349/407 | 350/407 | 350/407 | 360/417 |
| | Número de bancada | | 4 | 4 | 4 | 4 |
| | Diseño | | A | A | A | A |
| | L NB | [mm] | 246 | 246 | 246 | 274 |
| | L NB SS | [mm] | 273 | 273 | 273 | 293 |
| | h ₁ | [mm] | 160 | 160 | 160 | 160 |
| | G ₁ | [mm] | 140 | 140 | 140 | 140 |
| | G ₂ | [mm] | 157 | 157 | 157 | 157 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 265 | 265 | 265 | 265 |
| | n ₂ | [mm] | 212 | 212 | 212 | 212 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 231/321 | 281/321 | 321/321 | 335/335 |
| | AD ¹⁾ | [mm] | 109/167 | 110/167 | 110/167 | 120/177 |
| | AG ¹⁾ | [mm] | 82/264 | 162/264 | 162/264 | 162/264 |
| | LL ¹⁾ | [mm] | 82/260 | 103/260 | 103/260 | 103/260 |
| P | [mm] | 200 | 200 | 200 | 250 | |
| C | [mm] | - | - | - | - | |
| B | [mm] | - | - | - | - | |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 46/57 | 57/63 | 58/64 | 65/73 | |
| Peso NB SS ¹⁾ | [kg] | 54/65 | 65/71 | 66/72 | 73/81 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 40-250
4 polos



TM03 5127 4106

TM03 4180 1806

TM03 6005 4106

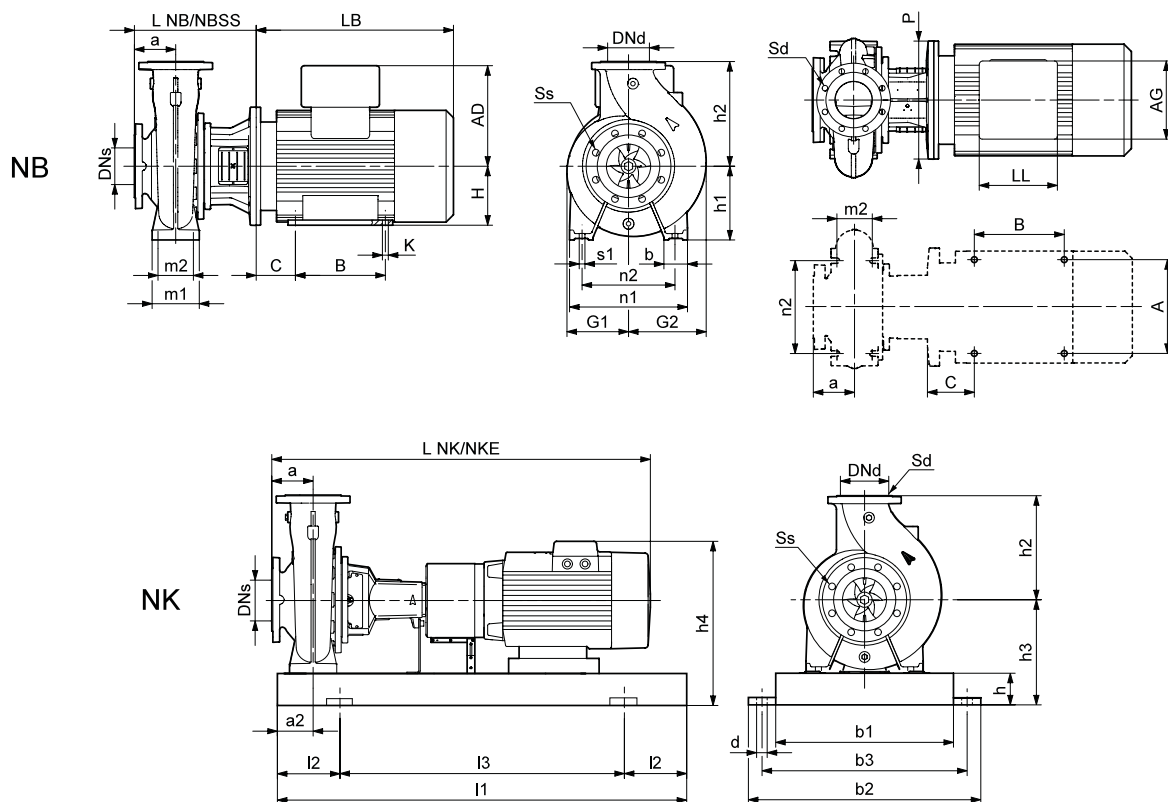
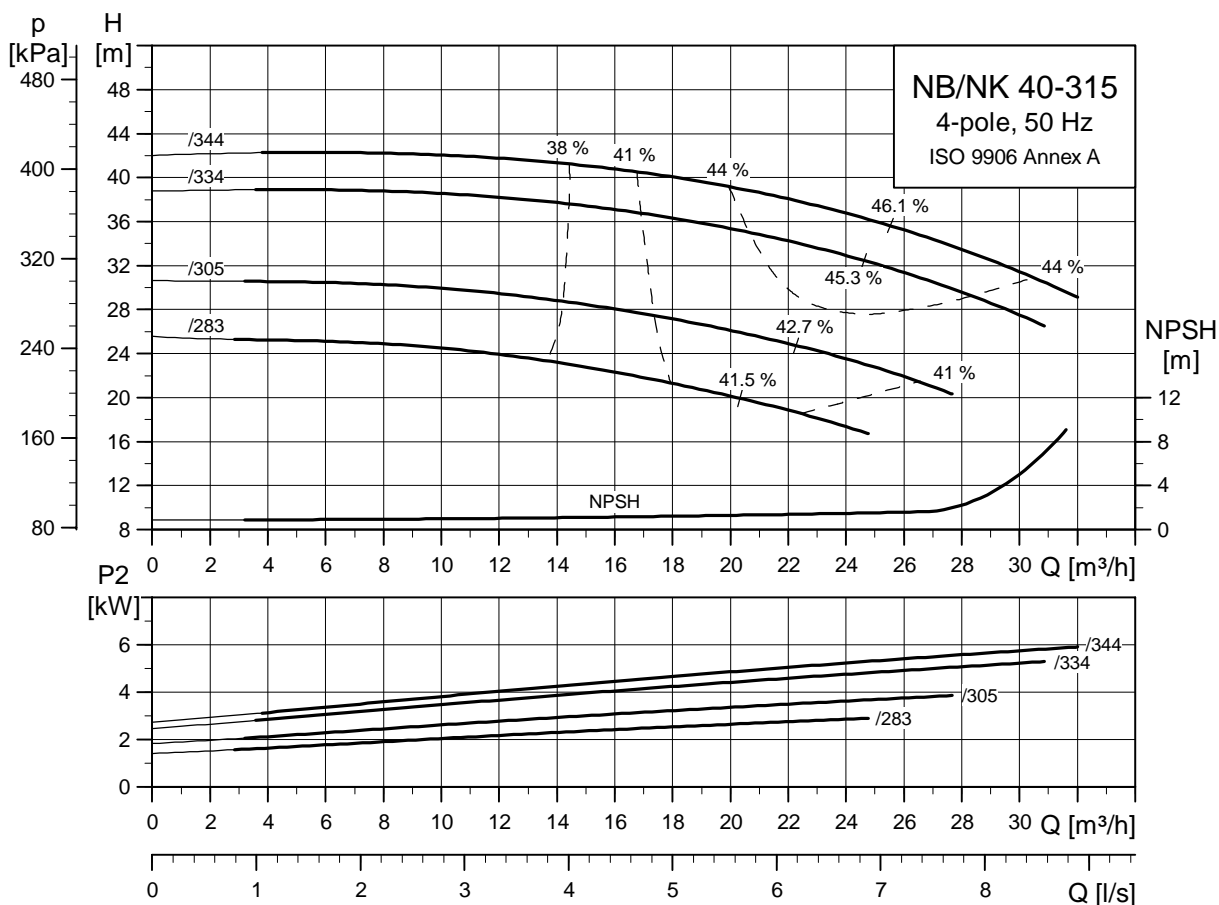
| Tipo de bomba | | 40-250/219 | 40-250/245 | 40-250/260 | |
|----------------------------------------|------------------------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 90LC-D | MG 100LB-D | MG 100LC-D | |
| | Motor eléctrico | MGE 90LC | MGE 100LB | MGE 100LC | |
| Datos generales NB/NK | P ₂ | [kW] | 1.5 | 2.2 | 3 |
| | PN | [bar] | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 |
| | a | [mm] | 100 | 100 | 100 |
| | h ₂ | [mm] | 225 | 225 | 225 |
| | Ss | | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 835/931 | 859/955 | 859/955 |
| | L NKE | [mm] | 835/931 | 859/955 | 859/955 |
| | Peso NK | [kg] | 144/144 | 149/147 | 154/152 |
| | Peso NKE | [kg] | 151/150 | 160/158 | 162/160 |
| | Peso NK SS | [kg] | 150/149 | 155/152 | 160/157 |
| | Peso NKE SS | [kg] | 157/156 | 166/163 | 168/165 |
| Datos NK | l ₁ | [mm] | 1120 | 1120 | 1120 |
| | l ₂ | [mm] | 190 | 190 | 190 |
| | l ₃ | [mm] | 740 | 740 | 740 |
| | b ₁ | [mm] | 380 | 380 | 380 |
| | b ₂ | [mm] | 490 | 490 | 490 |
| | b ₃ | [mm] | 440 | 440 | 440 |
| | d | [mm] | 24 | 24 | 24 |
| | a ₂ | [mm] | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 |
| | h ₃ | [mm] | 260 | 260 | 260 |
| | h ₄ ¹⁾ | [mm] | 370/427 | 380/437 | 380/437 |
| Número de bancada | | 5 | 5 | 5 | |
| Datos NB | Diseño | | A | A | A |
| | L NB | [mm] | 246 | 274 | 274 |
| | L NB SS | [mm] | 273 | 293 | 293 |
| | h ₁ | [mm] | 180 | 180 | 180 |
| | G ₁ | [mm] | 164 | 164 | 164 |
| | G ₂ | [mm] | 172 | 172 | 172 |
| | m ₁ | [mm] | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 |
| | n ₁ | [mm] | 320 | 320 | 320 |
| | n ₂ | [mm] | 250 | 250 | 250 |
| | b | [mm] | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 |
| | H | [mm] | - | - | - |
| | LB ¹⁾ | [mm] | 321/321 | 335/335 | 335/335 |
| | AD ¹⁾ | [mm] | 110/167 | 120/177 | 120/177 |
| | AG ¹⁾ | [mm] | 162/264 | 162/264 | 162/264 |
| | LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/260 |
| | P | [mm] | 200 | 250 | 250 |
| | C | [mm] | - | - | - |
| | B | [mm] | - | - | - |
| | A | [mm] | - | - | - |
| K | [mm] | - | - | - | |
| Peso NB ¹⁾ | [kg] | 63/70 | 70/78 | 72/80 | |
| Peso NB SS ¹⁾ | [kg] | 74/80 | 81/89 | 83/91 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 40-315
4 polos



TM03 5128 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 40-315/283 | 40-315/305 | 40-315/334 | 40-315/344 | |
|-----------------------------------------|------------------------------|------------|------------|--------------|-------------------------|-----------|
| Tipo de motor | Motor de gama alta | MG 100LC-D | MG 112MC-D | Siemens 132S | Siemens 132M | |
| | Motor eléctrico | MGE 100LC | MGE 112MC | MGE 132SC | MMGE 132M ²⁾ | |
| Datos generales NB/NK | P ₂ | [kW] | 3 | 4 | 5.5 | 7.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 40 | 40 | 40 | 40 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 250 | 250 | 250 | 250 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/ espaciador | L NK | [mm] | 994/1090 | 1031/1127 | 1052/1148 | 1090/1186 |
| | L NKE | [mm] | 994/1090 | 1031/1127 | 1070/1166 | 1158/1254 |
| | Peso NK | [kg] | 228/226 | 242/239 | 246/243 | 261/258 |
| | Peso NKE | [kg] | 236/234 | 246/244 | 256/253 | 314/308 |
| | Peso NK SS | [kg] | 224/222 | 237/235 | 242/239 | 257/254 |
| | Peso NKE SS | [kg] | 232/230 | 242/240 | 252/249 | 309/304 |
| Datos NK | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 280 | 280 | 280 | 280 |
| | h ₄ ¹⁾ | [mm] | 400/457 | 414/468 | 447/468 | 447/639 |
| Número de bancada | | 6 | 6 | 6 | 6 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 348 | 348 | 368 | 368 |
| | L NB SS | [mm] | 348 | 348 | 368 | 368 |
| | h ₁ | [mm] | 200 | 200 | 200 | 200 |
| | G ₁ | [mm] | 200 | 200 | 200 | 200 |
| | G ₂ | [mm] | 206 | 206 | 206 | 206 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 345 | 345 | 345 | 345 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | 132 |
| | LB ¹⁾ | [mm] | 335/335 | 372/372 | 373/391 | 411/449 |
| | AD ¹⁾ | [mm] | 120/177 | 134/188 | 167/188 | 167/333 |
| | AG ¹⁾ | [mm] | 162/264 | 202/290 | 140/290 | 140/246 |
| | LL ¹⁾ | [mm] | 103/260 | 103/300 | 140/300 | 140/410 |
| | P | [mm] | 250 | 250 | 300 | 300 |
| | C | [mm] | - | - | - | 89 |
| | B | [mm] | - | - | - | 178 |
| A | [mm] | - | - | - | 216 | |
| K | [mm] | - | - | - | 12 | |
| Peso NB ¹⁾ | [kg] | 124/132 | 139/143 | 146/158 | 161/202 | |
| Peso NB SS ¹⁾ | [kg] | 124/132 | 139/143 | 146/158 | 161/202 | |

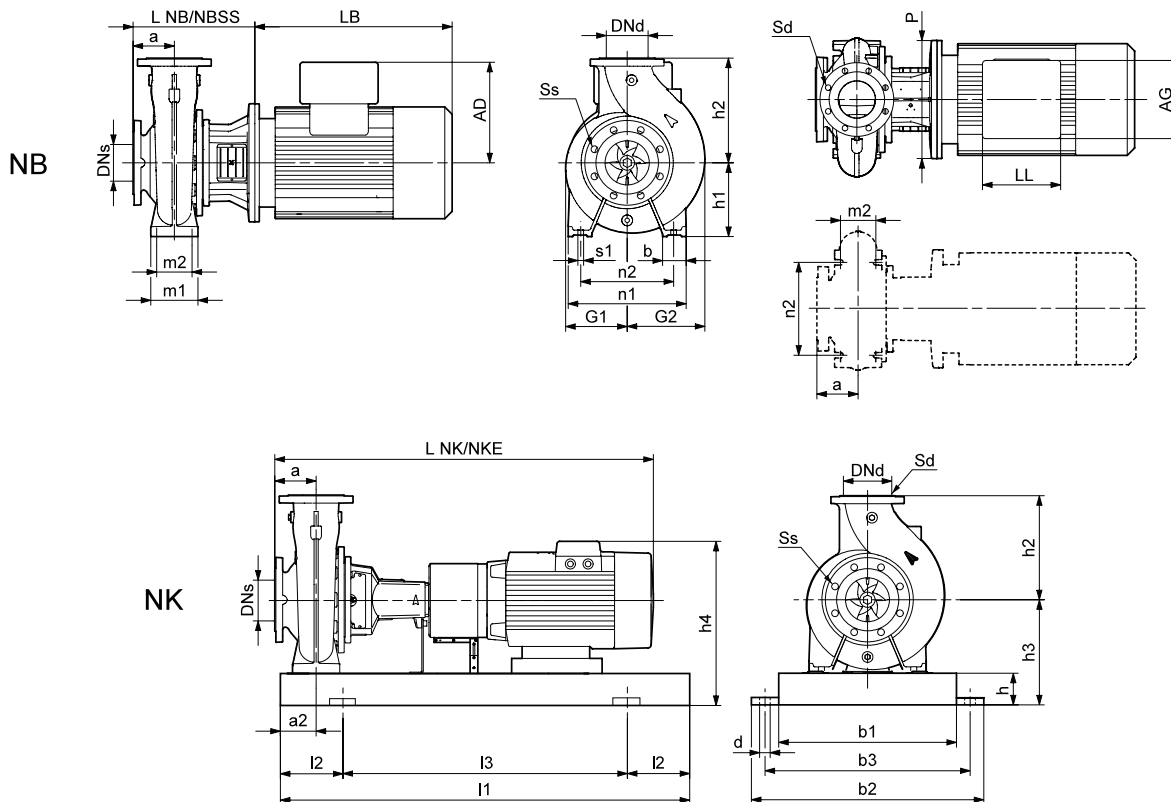
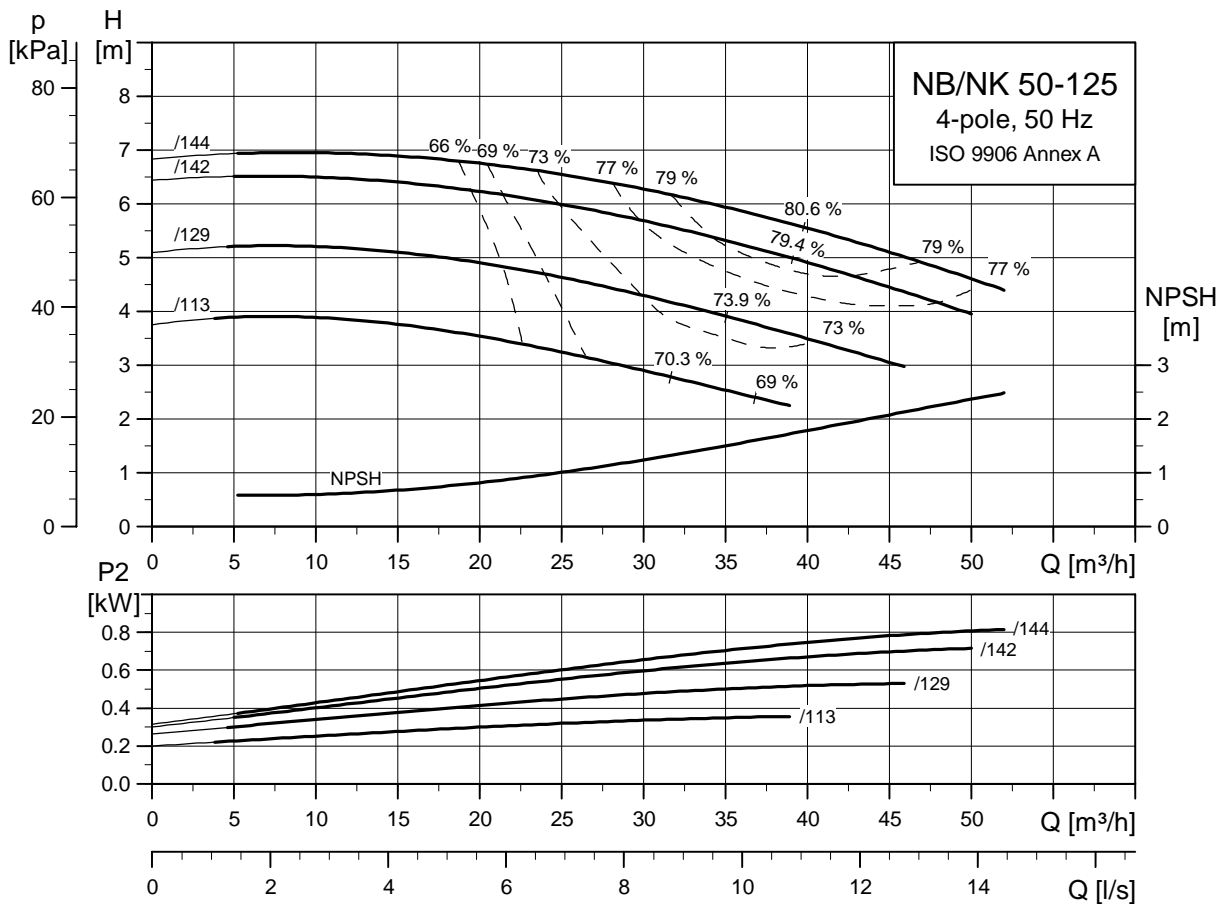
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) NBE 40-315/344 viene con motor MMGE 132M con patas; NKE 40-315/344 viene con motor MMGE 160M.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 50-125
4 polos



TM03 5129 4106

TM03 4180 1806

TM03 6005 4106

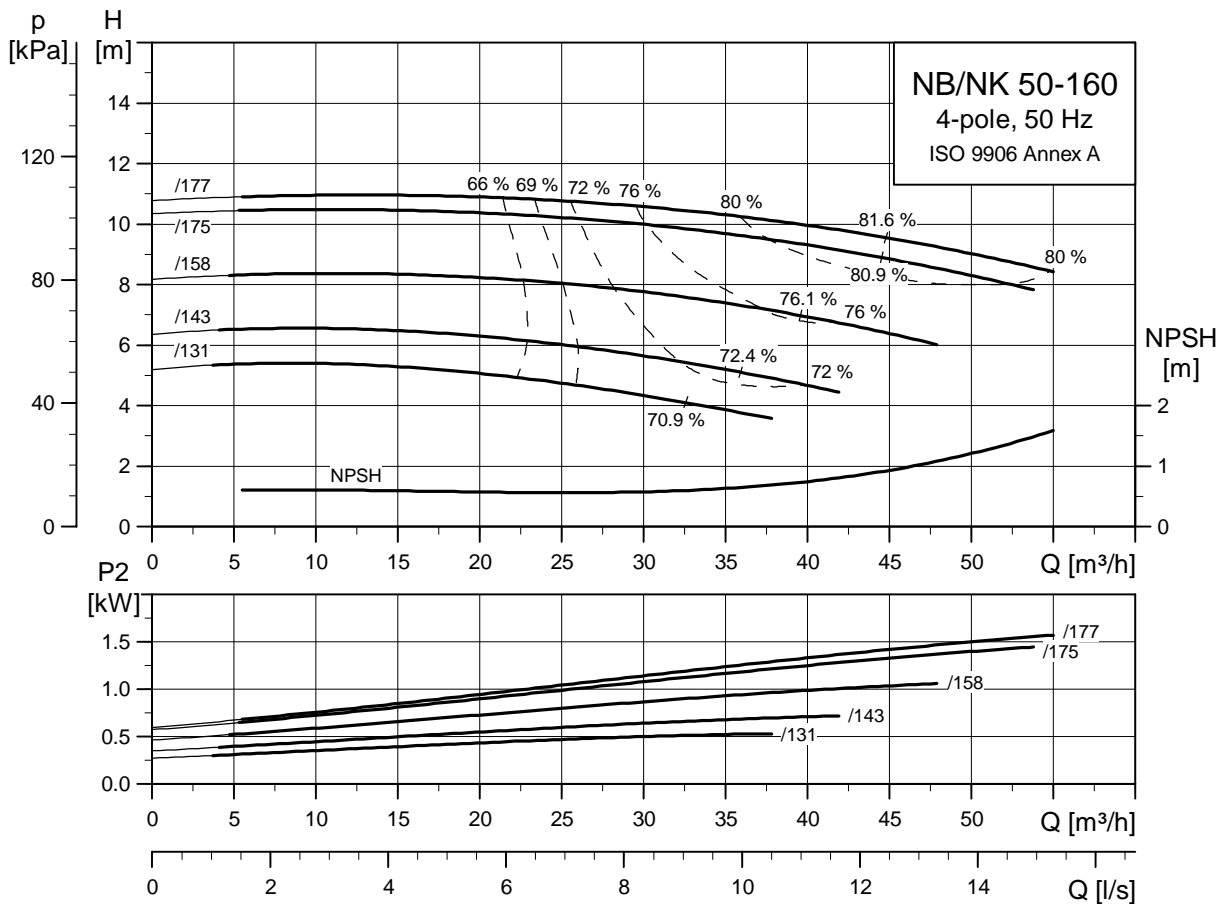
| Tipo de bomba | | 50-125/113 | 50-125/129 | 50-125/142 | 50-125/144 | |
|----------------------------------------|--------------------|------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 71B-C | MG 80A-C | MG 80B-C | MG 90SB-D | |
| | Motor eléctrico | - | - | MGE 90SA | MGE 90SB | |
| Datos generales NB/NK | P ₂ | [kW] | 0.37 | 0.55 | 0.75 | 1.1 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 50 | 50 | 50 | 50 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 160 | 160 | 160 | 160 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 695/781 | 735/831 | 735/831 | 795/891 |
| | L NKE | [mm] | -/- | -/- | 825/921 | 835/931 |
| | Peso NK | [kg] | 103/103 | 106/106 | 107/107 | 120/119 |
| | Peso NKE | [kg] | -/- | -/- | 120/120 | 126/126 |
| | Peso NK SS | [kg] | 105/104 | 108/107 | 109/108 | 122/121 |
| Peso NKE SS | [kg] | -/- | -/- | 122/121 | 128/127 | |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 212 | 212 | 212 | 212 |
| h ₄ ¹⁾ | [mm] | 321/- | 321/- | 321/379 | 322/379 | |
| Número de bancada | | 4 | 4 | 4 | 4 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 221 | 246 | 246 | 246 |
| | L NB SS | [mm] | 263 | 273 | 273 | 273 |
| | h ₁ | [mm] | 132 | 132 | 132 | 132 |
| | G ₁ | [mm] | 117 | 117 | 117 | 117 |
| | G ₂ | [mm] | 130 | 130 | 130 | 130 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 240 | 240 | 240 | 240 |
| | n ₂ | [mm] | 190 | 190 | 190 | 190 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 191/- | 231/- | 231/321 | 281/321 |
| | AD ¹⁾ | [mm] | 109/- | 109/- | 109/167 | 110/167 |
| | AG ¹⁾ | [mm] | 82/- | 82/- | 82/264 | 162/264 |
| | LL ¹⁾ | [mm] | 82/- | 82/- | 82/260 | 103/260 |
| | P | [mm] | 160 | 200 | 200 | 200 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 38/- | 41/- | 42/53 | 53/59 | |
| Peso NB SS ¹⁾ | [kg] | 43/- | 46/- | 46/58 | 57/64 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

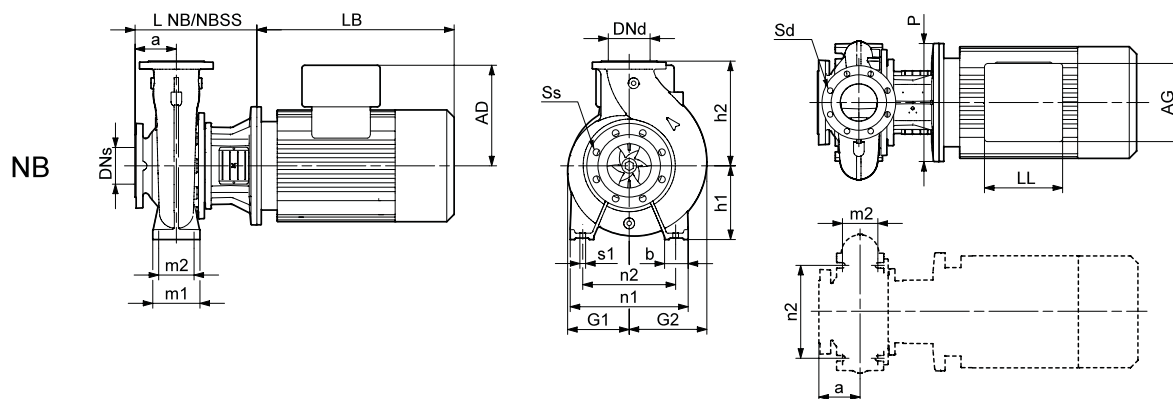
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

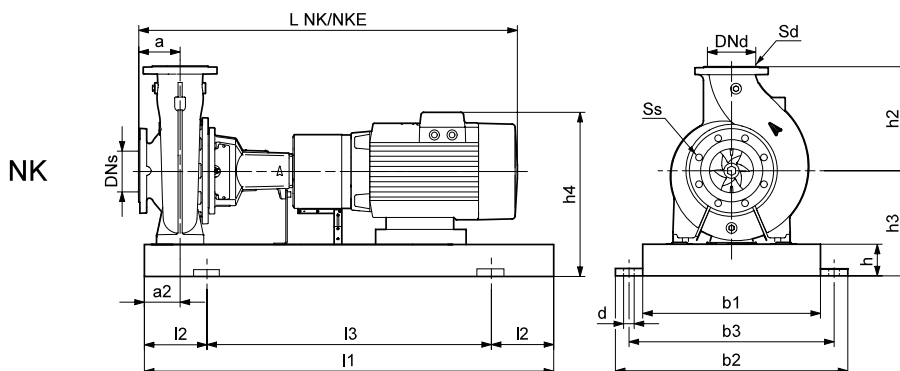
NB, NK 50-160
4 polos



TM03 5130 4106



TM03 4180 1806



TM03 6005 4106

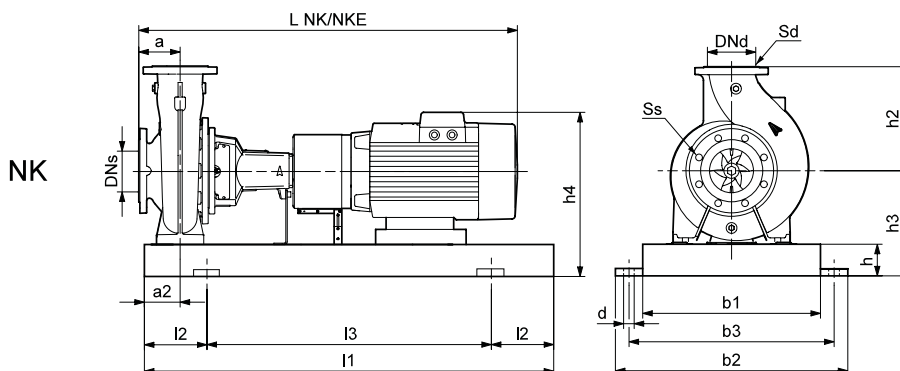
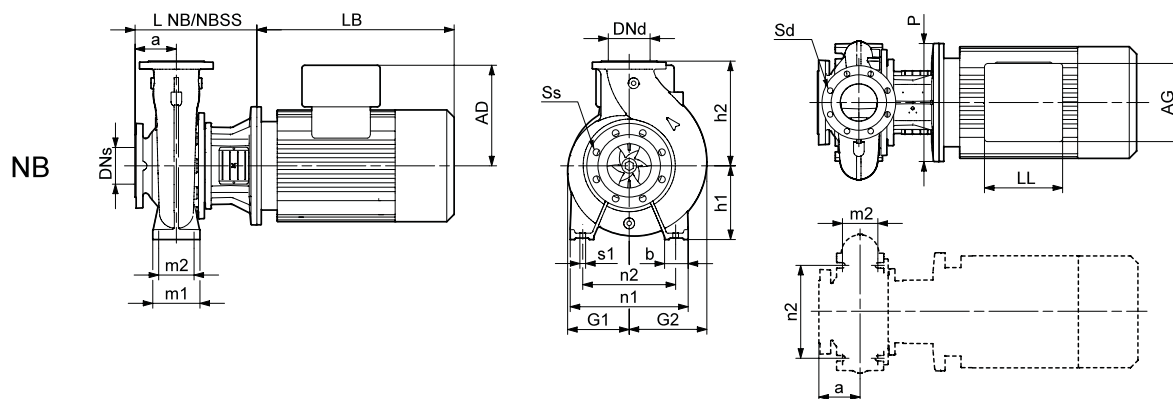
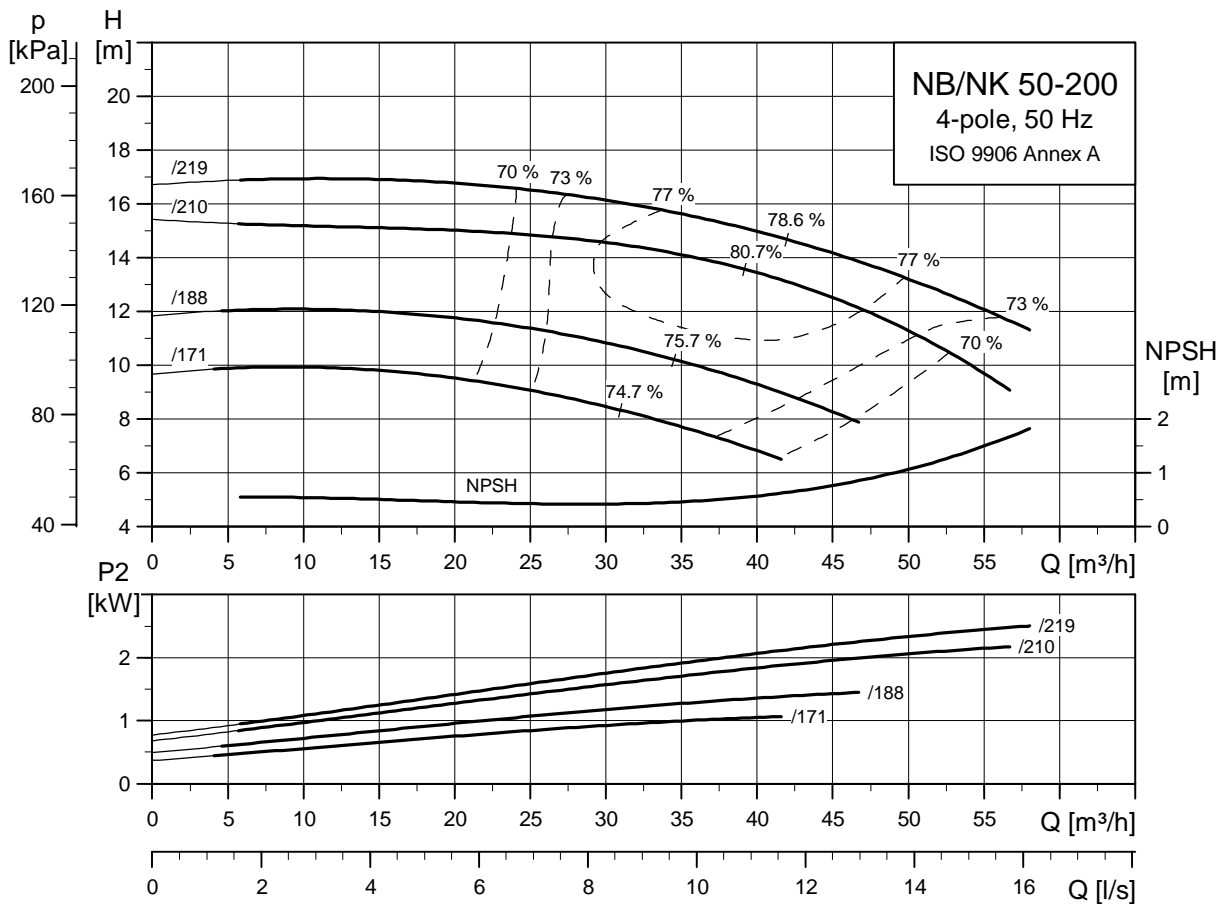
| Tipo de bomba | | 50-160/131 | 50-160/143 | 50-160/158 | 50-160/175 | 50-160/177 | |
|----------------------------------------|-----------------------|------------|------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 80A-C | MG 80B-C | MG 90SB-D | MG 90LC-D | MG 100LB-D | |
| | Motor eléctrico | - | MGE 90SA | MGE 90SB | MGE 90LC | MGE 100LB | |
| Datos generales NB/NK | P ₂ | [kW] | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 50 | 50 | 50 | 50 | 50 |
| | a | [mm] | 100 | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 180 | 180 | 180 | 180 | 180 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 735/831 | 735/831 | 795/891 | 835/931 | 859/955 |
| | L NKE | [mm] | -/- | 825/921 | 835/931 | 835/931 | 859/955 |
| | Peso NK | [kg] | 106/106 | 107/107 | 117/116 | 118/117 | 123/121 |
| | Peso NKE | [kg] | -/- | 117/117 | 123/123 | 124/124 | 134/132 |
| | Peso NK SS | [kg] | 110/109 | 111/110 | 121/120 | 122/121 | 127/125 |
| | Peso NKE SS | [kg] | -/- | 121/120 | 127/126 | 128/127 | 138/136 |
| Datos NK | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 240 | 240 | 240 |
| h ₄ ¹⁾ | [mm] | 349/- | 349/407 | 350/407 | 350/407 | 360/417 | |
| Número de bancada | | 4 | 4 | 4 | 4 | 4 | |
| Datos NB | Diseño | | A | A | A | A | A |
| | L NB | [mm] | 246 | 246 | 246 | 246 | 274 |
| | L NB SS | [mm] | 173 | 173 | 173 | 173 | 193 |
| | h ₁ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | G ₁ | [mm] | 125 | 125 | 125 | 125 | 125 |
| | G ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 265 | 265 | 265 | 265 | 265 |
| | n ₂ | [mm] | 212 | 212 | 212 | 212 | 212 |
| | b | [mm] | 50 | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - | - |
| | LB ¹⁾ | [mm] | 231/- | 231/321 | 281/321 | 321/321 | 335/335 |
| | AD ¹⁾ | [mm] | 109/- | 109/167 | 110/167 | 110/167 | 120/177 |
| | AG ¹⁾ | [mm] | 82/- | 82/264 | 162/264 | 162/264 | 162/264 |
| | LL ¹⁾ | [mm] | 82/- | 82/260 | 103/260 | 103/260 | 103/260 |
| | P | [mm] | 200 | 200 | 200 | 200 | 250 |
| | C | [mm] | - | - | - | - | - |
| | B | [mm] | - | - | - | - | - |
| | A | [mm] | - | - | - | - | - |
| | K | [mm] | - | - | - | - | - |
| | Peso NB ¹⁾ | [kg] | 41/- | 42/53 | 53/59 | 54/60 | 61/69 |
| Peso NB SS ¹⁾ | [kg] | 47/- | 48/60 | 59/66 | 60/67 | 68/76 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 50-200
4 polos



TM03 5131 4106

TM03 4180 1806

TM03 6005 4106

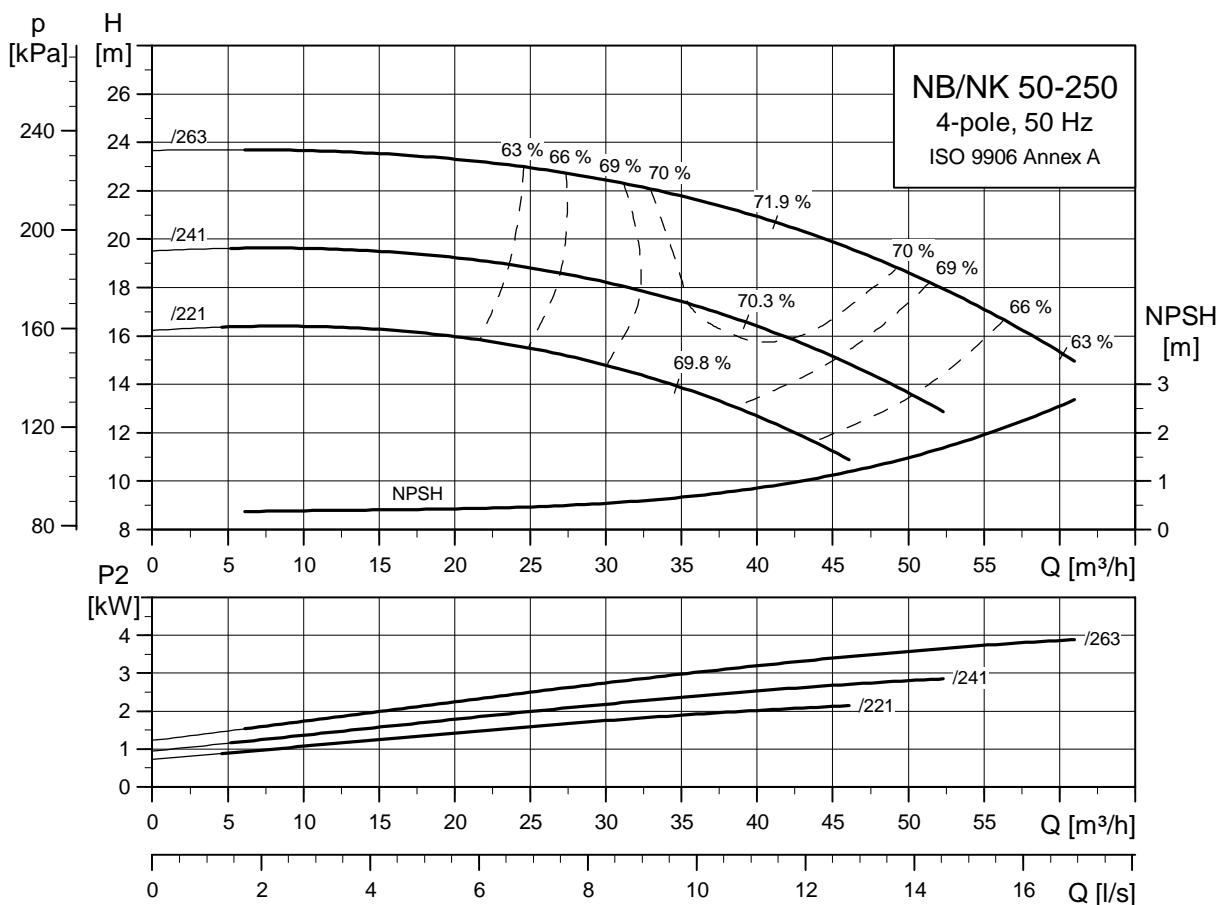
| Tipo de bomba | | 50-200/171 | 50-200/188 | 50-200/210 | 50-200/219 | |
|----------------------------------------|------------------------------|------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 90SB-D | MG 90LC-D | MG 100LB-D | MG 100LC-D | |
| | Motor eléctrico | MGE 90SB | MGE 90LC | MGE 100LB | MGE 100LC | |
| Datos generales NB/NK | P ₂ | [kW] | 1.1 | 1.5 | 2.2 | 3 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 50 | 50 | 50 | 50 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 200 | 200 | 200 | 200 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| | L NK | [mm] | 795/891 | 835/931 | 859/955 | 859/955 |
| | L NKE | [mm] | 835/931 | 835/931 | 859/955 | 859/955 |
| | Peso NK | [kg] | 120/119 | 121/120 | 126/124 | 131/129 |
| | Peso NKE | [kg] | 127/126 | 128/127 | 137/135 | 139/137 |
| | Peso NK SS | [kg] | 127/126 | 128/127 | 133/131 | 138/136 |
| Datos NK | Peso NKE SS | [kg] | 134/133 | 135/134 | 144/142 | 146/144 |
| | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 240 | 240 |
| Datos NB | h ₄ ¹⁾ | [mm] | 350/407 | 350/407 | 360/417 | 360/417 |
| | Número de bancada | | 4 | 4 | 4 | 4 |
| | Diseño | | A | A | A | A |
| | L NB | [mm] | 246 | 246 | 274 | 274 |
| | L NB SS | [mm] | 273 | 273 | 293 | 293 |
| | h ₁ | [mm] | 160 | 160 | 160 | 160 |
| | G ₁ | [mm] | 141 | 141 | 141 | 141 |
| | G ₂ | [mm] | 162 | 162 | 162 | 162 |
| | m ₁ | [mm] | 100 | 100 | 100 | 100 |
| | m ₂ | [mm] | 70 | 70 | 70 | 70 |
| | n ₁ | [mm] | 265 | 265 | 265 | 265 |
| | n ₂ | [mm] | 212 | 212 | 212 | 212 |
| | b | [mm] | 50 | 50 | 50 | 50 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 281/321 | 321/321 | 335/335 | 335/335 |
| | AD ¹⁾ | [mm] | 110/167 | 110/167 | 120/177 | 120/177 |
| AG ¹⁾ | [mm] | 162/264 | 162/264 | 162/264 | 162/264 | |
| LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/260 | 103/260 | |
| P | [mm] | 200 | 200 | 250 | 250 | |
| C | [mm] | - | - | - | - | |
| B | [mm] | - | - | - | - | |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 55/61 | 56/62 | 63/71 | 65/73 | |
| Peso NB SS ¹⁾ | [kg] | 66/72 | 67/73 | 74/82 | 76/84 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

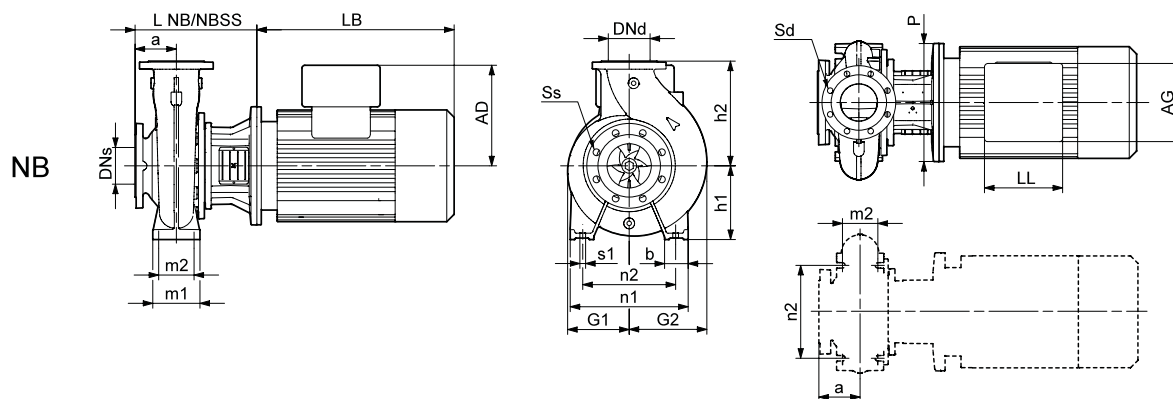
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

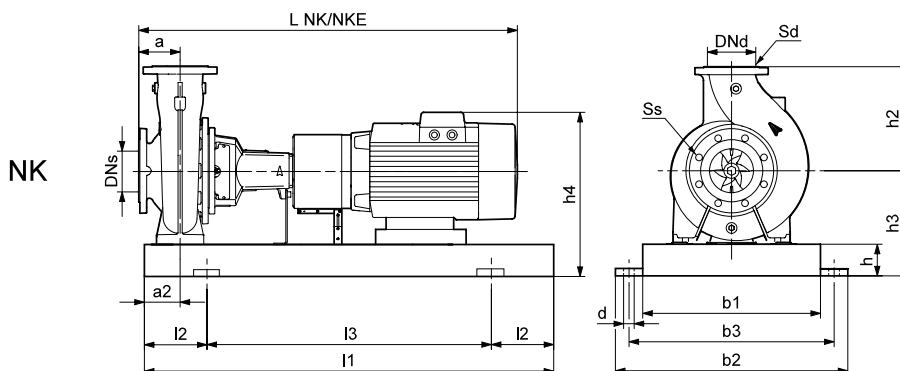
NB, NK 50-250
4 polos



TM03 5132 4106



TM03 4180 1806



TM03 6005 4106

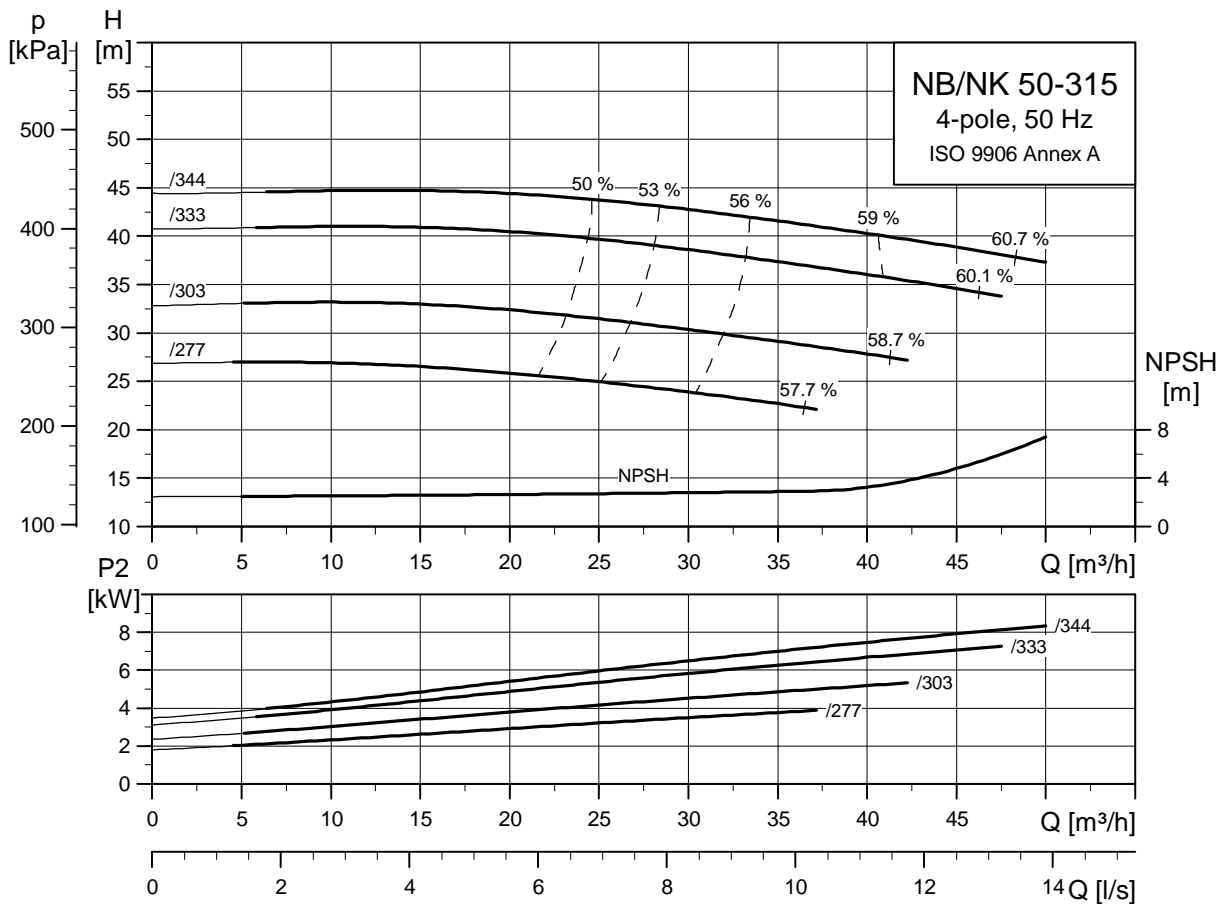
| Tipo de bomba | | 50-250/221 | 50-250/241 | 50-250/263 | | |
|----------------------------------------|------------------------------|------------------|------------|------------|---------|---------|
| Tipo de motor | Motor de gama alta | MG 100LB-D | MG 100LC-D | MG 112MC-D | | |
| | Motor eléctrico | MGE 100LB | MGE 100LC | MGE 112MC | | |
| Datos generales NB/NK | P ₂ | [kW] | 2.2 | 3 | 4 | |
| | PN | [bar] | 16 | 16 | 16 | |
| | DNs | [mm] | 65 | 65 | 65 | |
| | DNd | [mm] | 50 | 50 | 50 | |
| | a | [mm] | 100 | 100 | 100 | |
| | h ₂ | [mm] | 225 | 225 | 225 | |
| | Ss | | 4x19 | 4x19 | 4x19 | |
| | Sd | | 4x19 | 4x19 | | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 859/955 | 859/955 | 896/992 | |
| | L NKE | [mm] | 859/955 | 859/955 | 896/992 | |
| | Peso NK | [kg] | 150/148 | 155/153 | 172/170 | |
| | Peso NKE | [kg] | 161/159 | 163/161 | 176/174 | |
| | Peso NK SS | [kg] | 156/154 | 161/159 | 178/175 | |
| | Peso NKE SS | [kg] | 167/165 | 169/167 | 182/180 | |
| Datos NK | l ₁ | [mm] | 1120 | 1120 | 1120 | |
| | l ₂ | [mm] | 190 | 190 | 190 | |
| | l ₃ | [mm] | 740 | 740 | 740 | |
| | b ₁ | [mm] | 380 | 380 | 380 | |
| | b ₂ | [mm] | 490 | 490 | 490 | |
| | b ₃ | [mm] | 440 | 440 | 440 | |
| | d | [mm] | 24 | 24 | 24 | |
| | a ₂ | [mm] | 75 | 75 | 75 | |
| | h | [mm] | 80 | 80 | 80 | |
| | h ₃ | [mm] | 260 | 260 | 260 | |
| | h ₄ ¹⁾ | [mm] | 380/437 | 380/437 | 394/448 | |
| | Número de bancada | | 5 | 5 | 5 | |
| Datos NB | Diseño | | A | A | A | |
| | L NB | [mm] | 274 | 274 | 274 | |
| | L NB SS | [mm] | 293 | 293 | 293 | |
| | h ₁ | [mm] | 180 | 180 | 180 | |
| | G ₁ | [mm] | 164 | 164 | 164 | |
| | G ₂ | [mm] | 180 | 180 | 180 | |
| | m ₁ | [mm] | 125 | 125 | 125 | |
| | m ₂ | [mm] | 95 | 95 | 95 | |
| | n ₁ | [mm] | 320 | 320 | 320 | |
| | n ₂ | [mm] | 250 | 250 | 250 | |
| | b | [mm] | 65 | 65 | 65 | |
| | s ₁ | [mm] | M12 | M12 | M12 | |
| | H | [mm] | - | - | - | |
| | | LB ¹⁾ | [mm] | 335/335 | 335/335 | 372/372 |
| | | AD ¹⁾ | [mm] | 120/177 | 120/177 | 134/188 |
| | | AG ¹⁾ | [mm] | 162/264 | 162/264 | 202/290 |
| | | LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/300 |
| | | P | [mm] | 250 | 250 | 250 |
| | | C | [mm] | - | - | - |
| | | B | [mm] | - | - | - |
| | A | [mm] | - | - | - | |
| | K | [mm] | - | - | - | |
| | Peso NB ¹⁾ | [kg] | 72/79 | 74/81 | 89/93 | |
| | Peso NB SS ¹⁾ | [kg] | 83/91 | 85/93 | 100/104 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

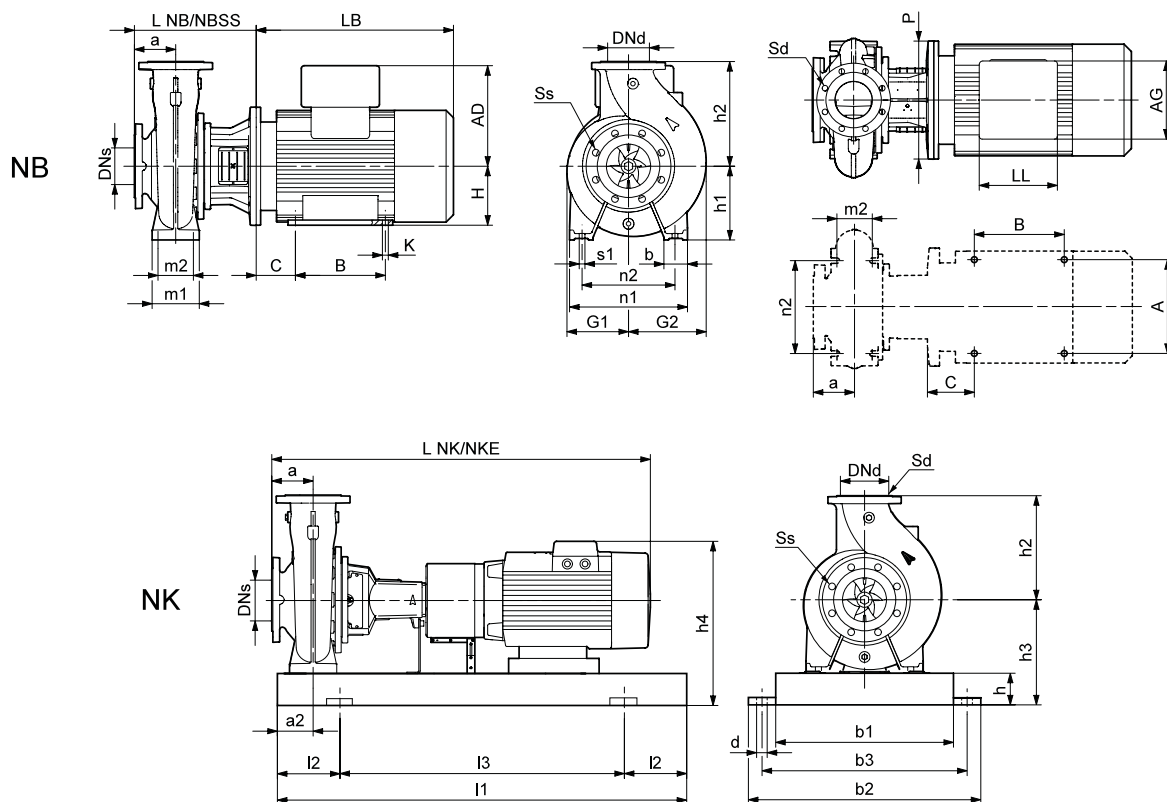
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 50-315
4 polos



TM03 5133 4106



TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 50-315/277 | 50-315/303 | 50-315/333 | 50-315/344 | |
|----------------------------------------|------------------------------|------------|--------------|-------------------------|--------------|-----------------|
| Tipo de motor | Motor de gama alta | MG 112MC-D | Siemens 132S | Siemens 132M | Siemens 160M | |
| | Motor eléctrico | MGE 112MC | MGE 132SC | MMGE 132M ³⁾ | MMGE 160M | |
| Datos generales NB/NK | P ₂ | [kW] | 4 | 5.5 | 7.5 | 11 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 65 | 65 | 65 | 65 |
| | DNd | [mm] | 50 | 50 | 50 | 50 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 |
| | Ss | | 4x19 | 4x19 | 4x19 | 4x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1031/1127 | 1052/1148 | 1090/1186 | 1187/1283 |
| | L NKE | [mm] | 1031/1127 | 1070/1166 | 1158/1254 | 1158/1254 |
| | Peso NK | [kg] | 247/245 | 251/248 | 266/263 | 291/285 |
| | Peso NKE | [kg] | 252/250 | 261/258 | 311/305 | 342/336 |
| | Peso NK SS | [kg] | 241/239 | 246/243 | 261/258 | 285/279 |
| | Peso NKE SS | [kg] | 246/244 | 256/253 | 305/299 | 336/330 |
| Datos NK | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 305 | 305 | 305 | 305 |
| | h ₄ ¹⁾ | [mm] | 439/493 | 472/493 | 472/664 | 502/664 |
| Número de bancada | | 6 | 6 | 6 | 6 | |
| Datos NB | Diseño | | A | A | A | C ²⁾ |
| | L NB | [mm] | 348 | 368 | 368 | 398 |
| | L NB SS | [mm] | 348 | 368 | 368 | 398 |
| | h ₁ | [mm] | 225 | 225 | 225 | 225 |
| | G ₁ | [mm] | 203 | 203 | 203 | 203 |
| | G ₂ | [mm] | 214 | 214 | 214 | 214 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 345 | 345 | 345 | 345 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | 132 | 160 |
| | LB ¹⁾ | [mm] | 372/372 | 373/391 | 411/449 | 478/449 |
| | AD ¹⁾ | [mm] | 134/188 | 167/188 | 167/333 | 197/359 |
| | AG ¹⁾ | [mm] | 202/290 | 140/290 | 140/246 | 165/296 |
| | LL ¹⁾ | [mm] | 103/300 | 140/300 | 140/410 | 165/410 |
| | P | [mm] | 250 | 300 | 300 | 350 |
| | C | [mm] | - | - | 89 | 108 |
| | B | [mm] | - | - | 178 | 210 |
| | A | [mm] | - | - | 216 | 254 |
| | K | [mm] | - | - | 12 | 15 |
| Peso NB ¹⁾ | [kg] | 143/148 | 150/162 | 165/206 | 192/243 | |
| Peso NB SS ¹⁾ | [kg] | 142/146 | 149/161 | 164/205 | 191/242 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

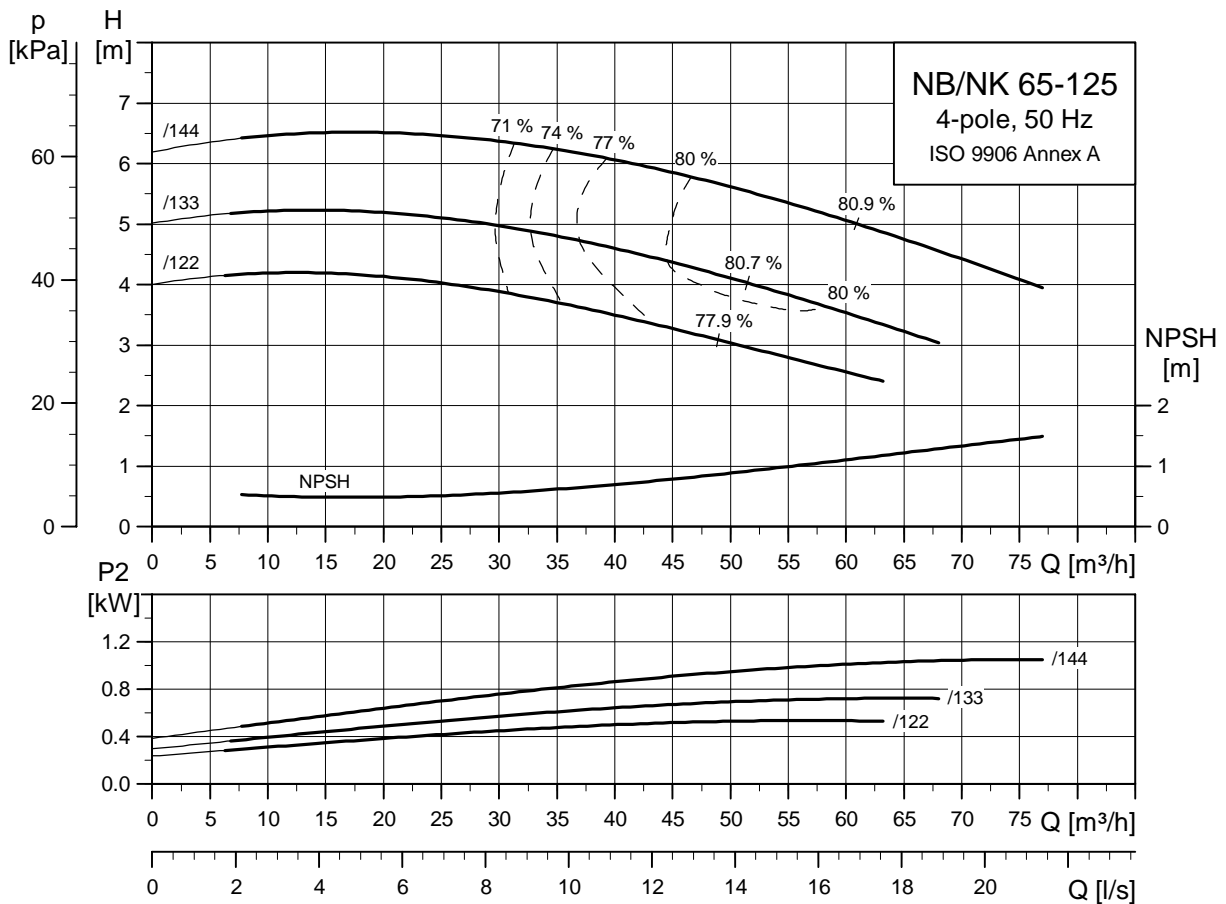
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NBE 50-315/333 viene con un motor MMGE 132M con patas; NKE 50-315/333 viene con un motor MMGE 160M.

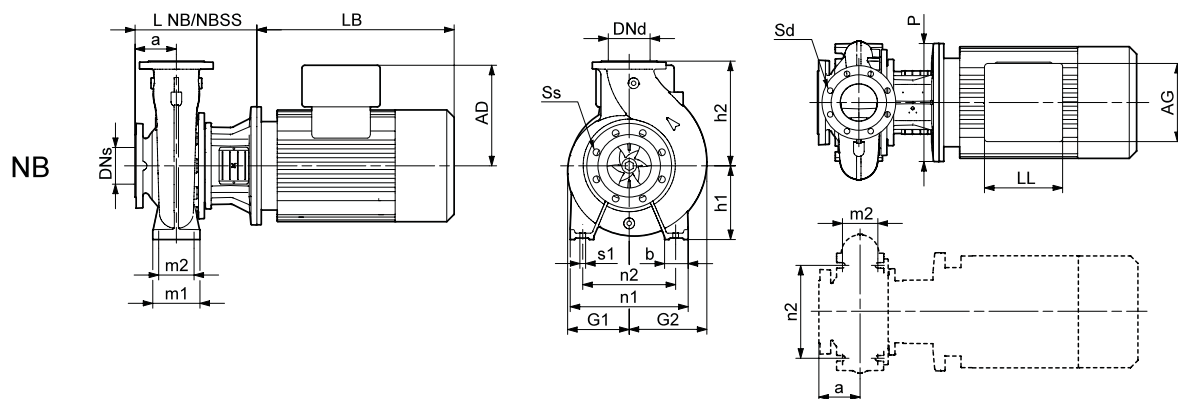
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

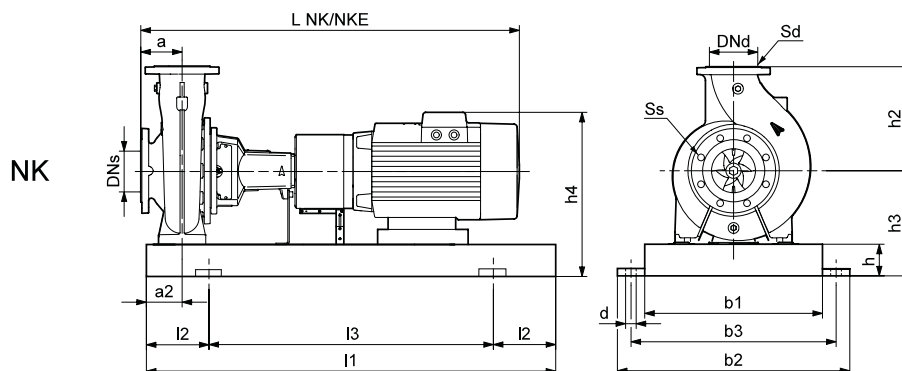
NB, NK 65-125
4 polos



TM03 5134 4106



TM03 4180 1806



TM03 6005 4106

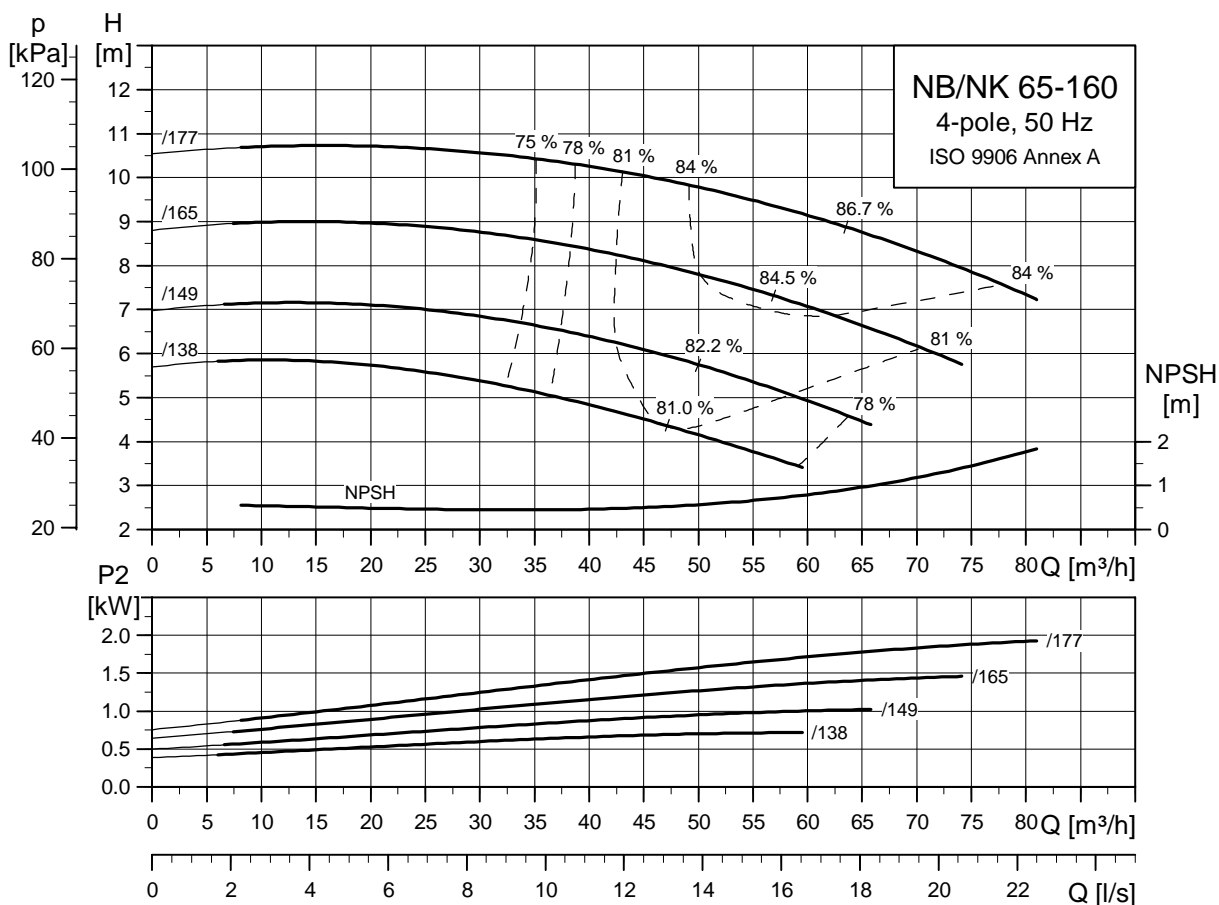
| Tipo de bomba | | 65-125/122 | 65-125/133 | 65-125/144 | |
|----------------------------------------|------------------------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 80A-C | MG 80B-C | MG 90SB-D | |
| | Motor eléctrico | - | MGE 90SA | MGE 90SB | |
| Datos generales NB/NK | P ₂ | [kW] | 0.55 | 0.75 | 1.1 |
| | PN | [bar] | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 |
| | a | [mm] | 100 | 100 | 100 |
| | h ₂ | [mm] | 180 | 180 | 180 |
| | Ss | | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | 4x19 |
| | L NK | [mm] | 735/831 | 735/831 | 795/891 |
| | L NKE | [mm] | -/- | 825/921 | 835/931 |
| | Peso NK | [kg] | 110/110 | 112/112 | 121/121 |
| | Peso NKE | [kg] | -/- | 122/121 | 128/127 |
| | Peso NK SS | [kg] | 112/111 | 113/112 | 123/122 |
| Datos NK | Peso NKE SS | [kg] | -/- | 123/123 | 129/129 |
| | l ₁ | [mm] | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 240 |
| Datos NB | h ₄ ¹⁾ | [mm] | 349/- | 349/407 | 350/407 |
| | Número de bancada | | 4 | 4 | 4 |
| | Diseño | | A | A | A |
| | L NB | [mm] | 246 | 246 | 246 |
| | L NB SS | [mm] | 273 | 273 | 273 |
| | h ₁ | [mm] | 160 | 160 | 160 |
| | G ₁ | [mm] | 117 | 117 | 117 |
| | G ₂ | [mm] | 146 | 146 | 146 |
| | m ₁ | [mm] | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 |
| | n ₁ | [mm] | 280 | 280 | 280 |
| | n ₂ | [mm] | 212 | 212 | 212 |
| | b | [mm] | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 |
| | H | [mm] | - | - | - |
| | LB ¹⁾ | [mm] | 231/- | 231/321 | 281/321 |
| | AD ¹⁾ | [mm] | 109/- | 109/167 | 110/167 |
| | AG ¹⁾ | [mm] | 82/- | 82/264 | 162/264 |
| | LL ¹⁾ | [mm] | 82/- | 82/260 | 103/260 |
| | P | [mm] | 200 | 200 | 200 |
| C | [mm] | - | - | - | |
| B | [mm] | - | - | - | |
| A | [mm] | - | - | - | |
| K | [mm] | - | - | - | |
| Peso NB ¹⁾ | [kg] | 46/- | 46/58 | 57/64 | |
| Peso NB SS ¹⁾ | [kg] | 50/- | 50/62 | 61/68 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

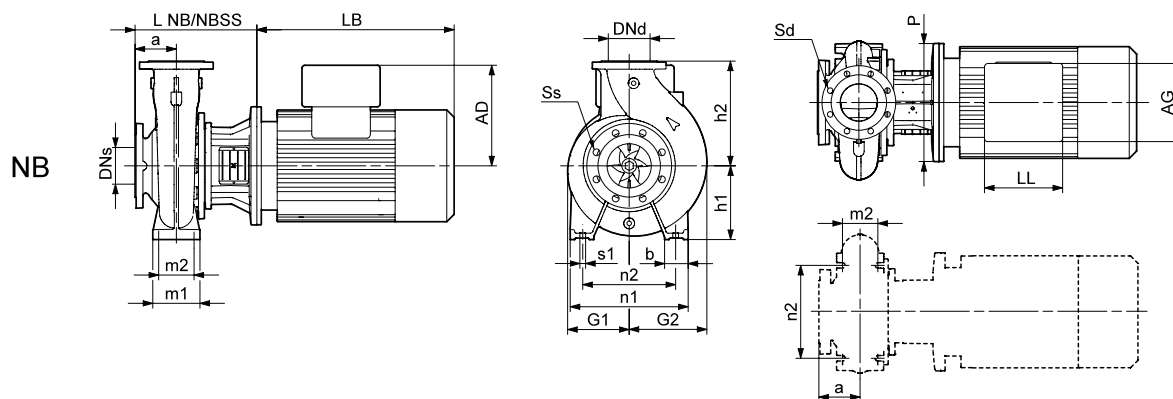
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

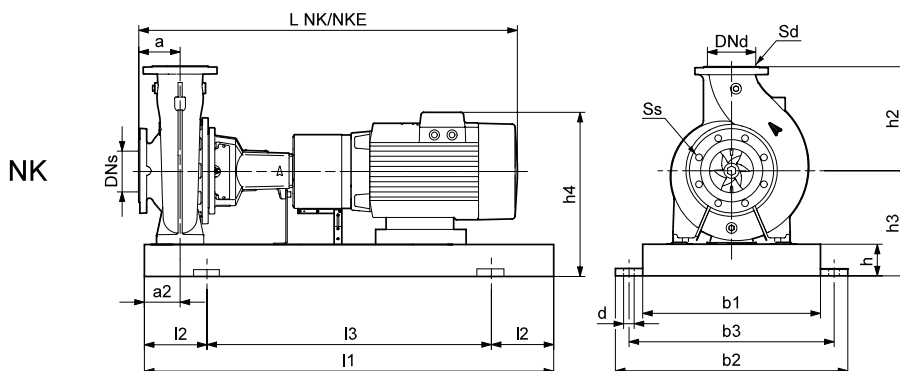
NB, NK 65-160
4 polos



TM03 5135 4106



TM03 4180 1806



TM03 6005 4106

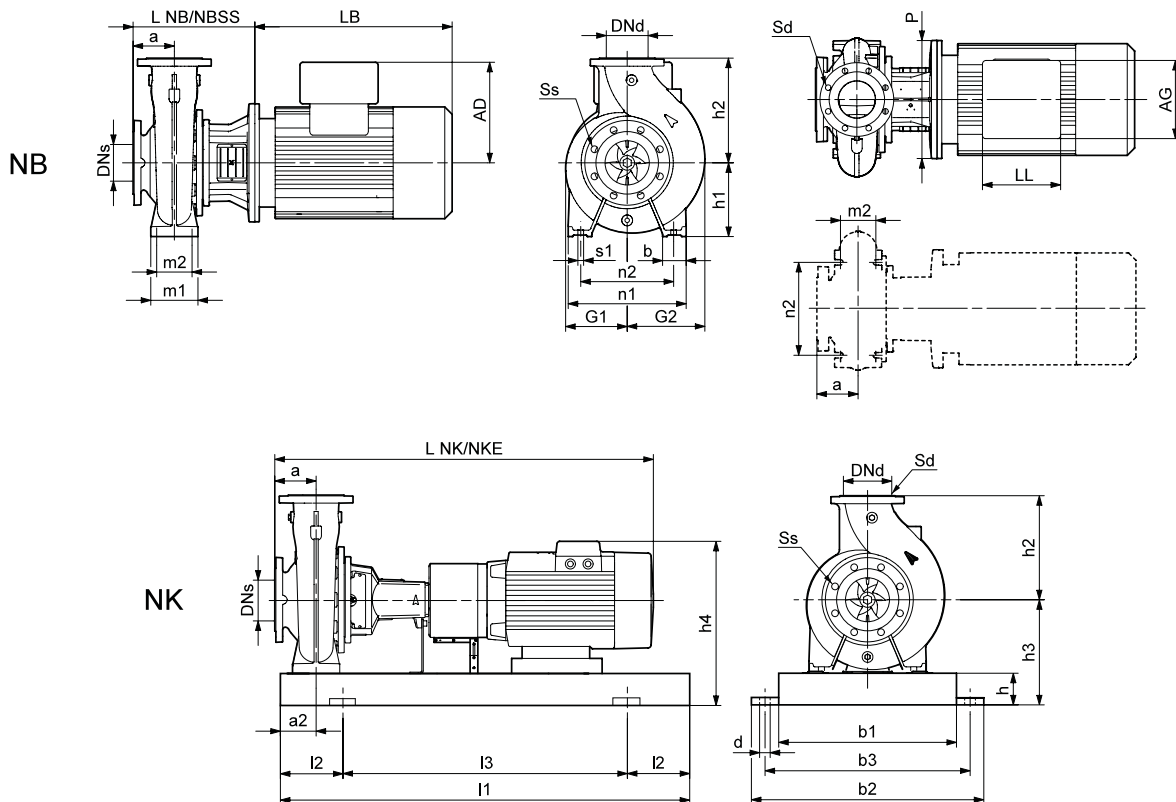
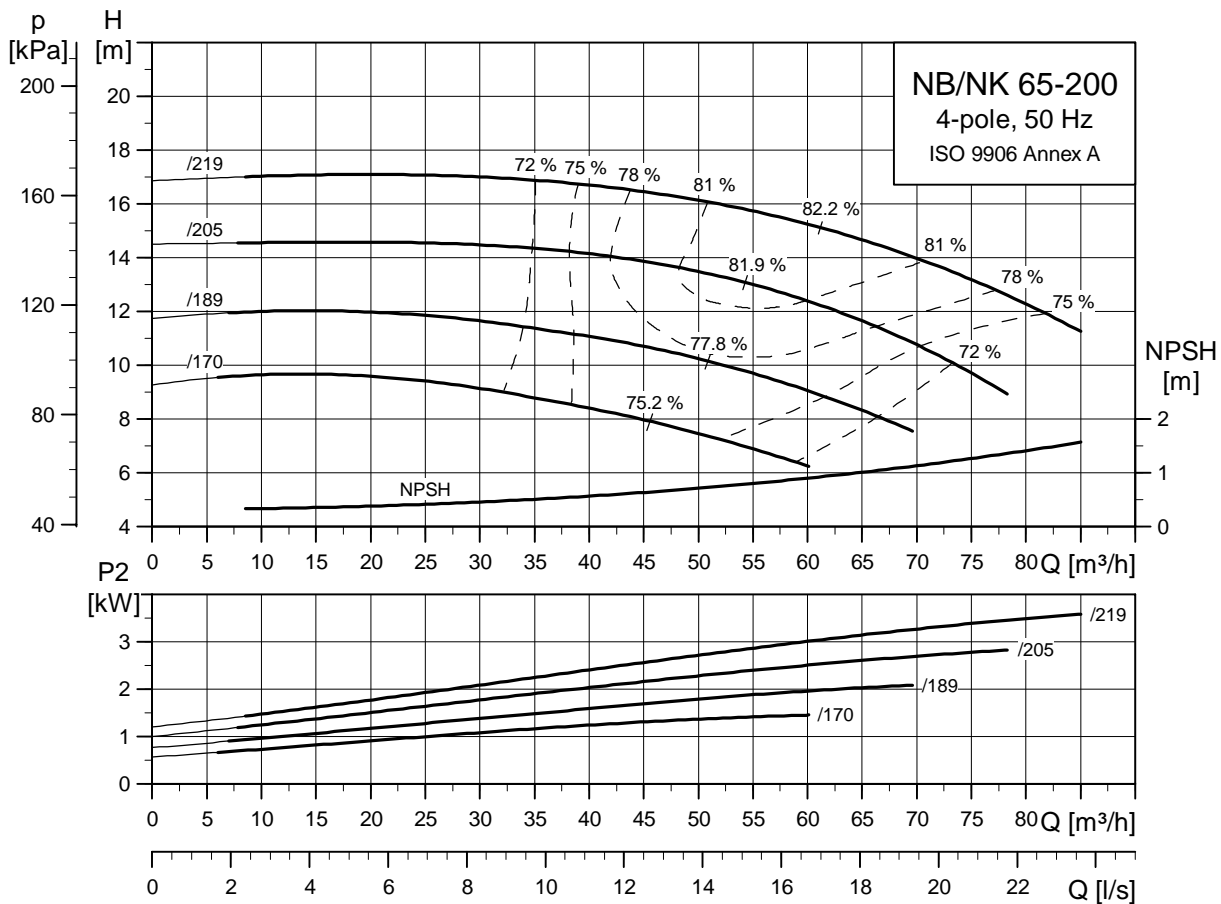
| Tipo de bomba | | 65-160/138 | 65-160/149 | 65-160/165 | 65-160/177 | |
|----------------------------------------|------------------------------|------------|------------|------------|------------|---------|
| Tipo de motor | Motor de gama alta | MG 80B-C | MG 90SB-D | MG 90LC-D | MG 100LB-D | |
| | Motor eléctrico | MGE 90SA | MGE 90SB | MGE 90LC | MGE 100LB | |
| Datos generales NB/NK | P ₂ | [kW] | 0.75 | 1.1 | 1.5 | 2.2 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 | 65 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 200 | 200 | 200 | 200 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| | L NK | [mm] | 735/831 | 795/891 | 835/931 | 859/955 |
| | L NKE | [mm] | 825/921 | 835/931 | 835/931 | 859/955 |
| | Peso NK | [kg] | 110/110 | 120/119 | 121/120 | 126/124 |
| | Peso NKE | [kg] | 120/119 | 126/125 | 127/126 | 137/135 |
| | Peso NK SS | [kg] | 113/112 | 123/122 | 124/123 | 129/127 |
| Datos NK | Peso NKE SS | [kg] | 123/123 | 129/129 | 130/130 | 140/138 |
| | l ₁ | [mm] | 1000 | 1000 | 1000 | 1000 |
| | l ₂ | [mm] | 170 | 170 | 170 | 170 |
| | l ₃ | [mm] | 660 | 660 | 660 | 660 |
| | b ₁ | [mm] | 340 | 340 | 340 | 340 |
| | b ₂ | [mm] | 450 | 450 | 450 | 450 |
| | b ₃ | [mm] | 400 | 400 | 400 | 400 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 60 | 60 | 60 | 60 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 240 | 240 | 240 | 240 |
| Datos NB | h ₄ ¹⁾ | [mm] | 349/407 | 350/407 | 350/407 | 360/417 |
| | Número de bancada | | 4 | 4 | 4 | 4 |
| | Diseño | | A | A | A | A |
| | L NB | [mm] | 246 | 246 | 246 | 274 |
| | L NB SS | [mm] | 273 | 273 | 273 | 293 |
| | h ₁ | [mm] | 160 | 160 | 160 | 160 |
| | G ₁ | [mm] | 127 | 127 | 127 | 127 |
| | G ₂ | [mm] | 161 | 161 | 161 | 161 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 280 | 280 | 280 | 280 |
| | n ₂ | [mm] | 212 | 212 | 212 | 212 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 231/321 | 281/321 | 321/321 | 335/335 |
| | AD ¹⁾ | [mm] | 109/167 | 110/167 | 110/167 | 120/177 |
| AG ¹⁾ | [mm] | 82/264 | 162/264 | 162/264 | 162/264 | |
| LL ¹⁾ | [mm] | 82/260 | 103/260 | 103/260 | 103/260 | |
| P | [mm] | 200 | 200 | 200 | 250 | |
| C | [mm] | - | - | - | - | |
| B | [mm] | - | - | - | - | |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 45/56 | 56/62 | 57/63 | 64/72 | |
| Peso NB SS ¹⁾ | [kg] | 51/62 | 61/68 | 62/69 | 70/78 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 65-200
4 polos



TM03 5136 4106

TM03 4180 1806

TM03 6005 4106

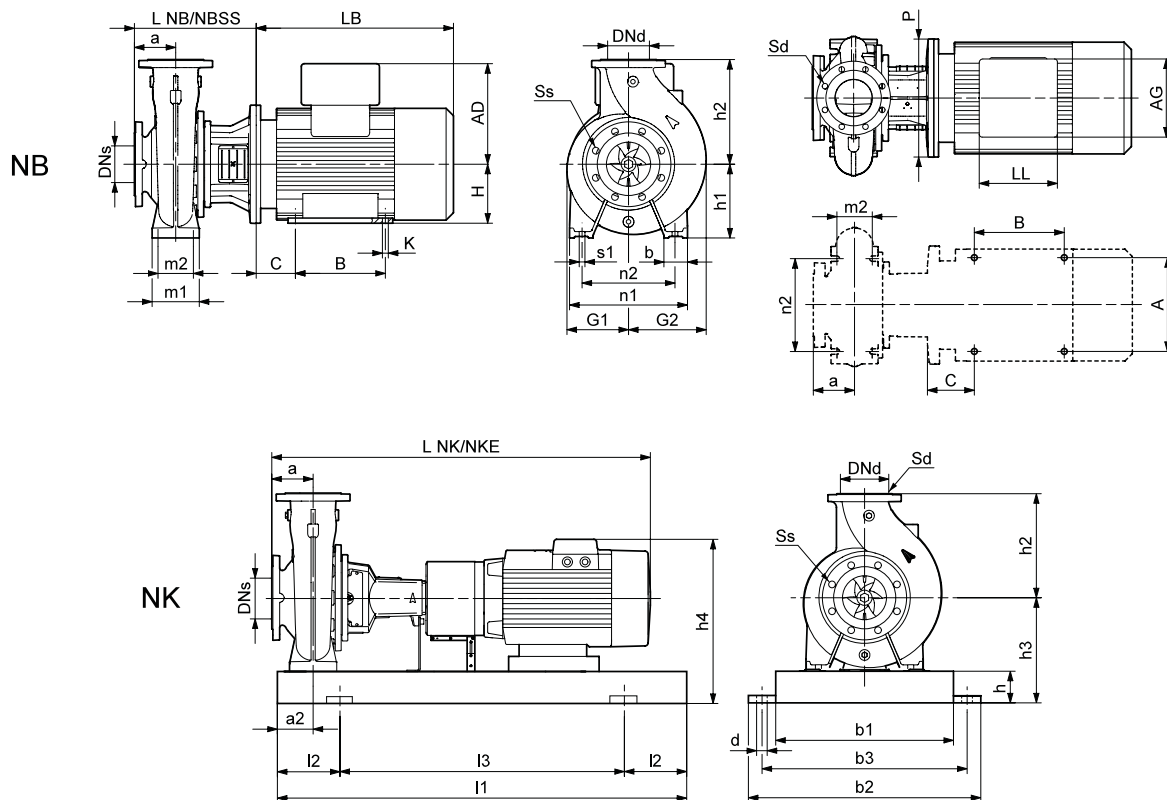
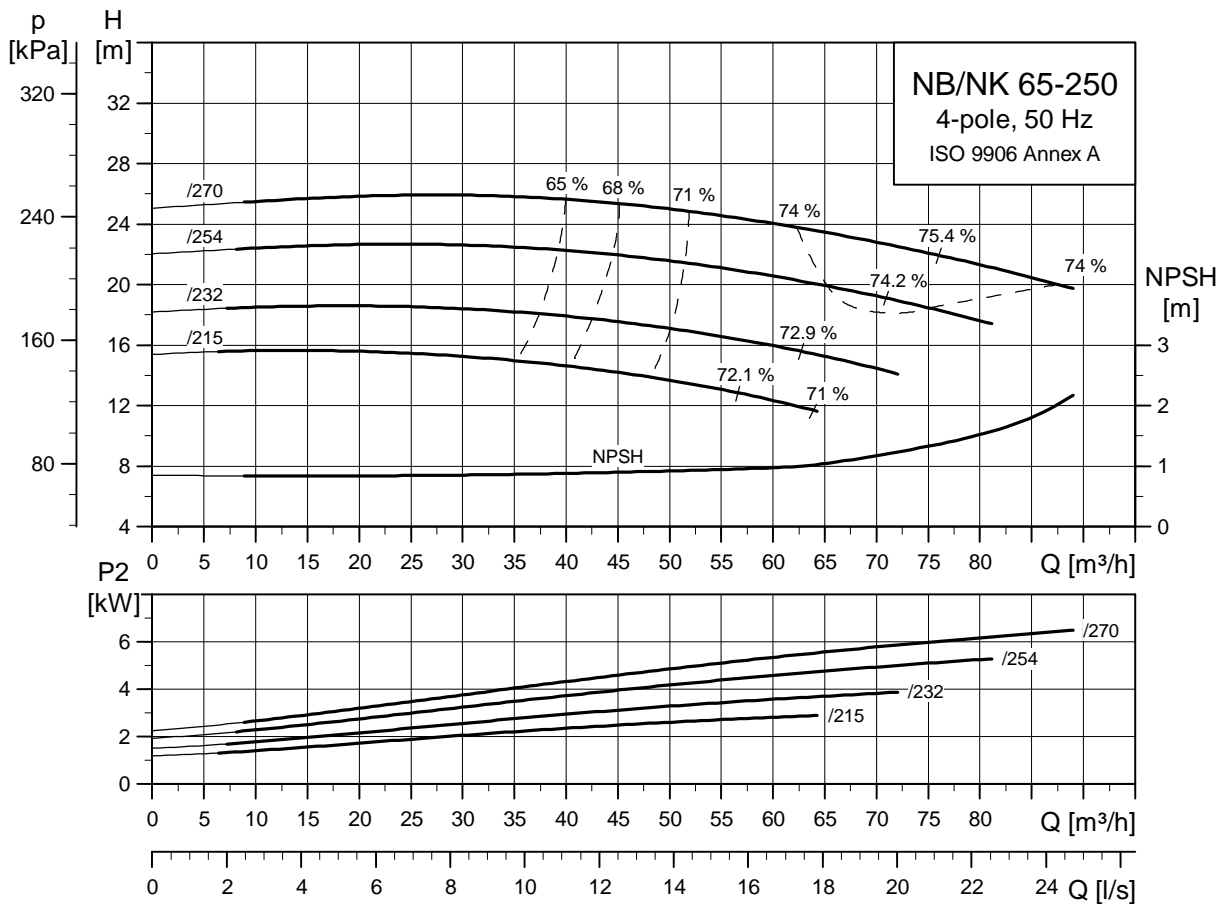
| Tipo de bomba | | 65-200/170 | 65-200/189 | 65-200/205 | 65-200/219 | |
|----------------------------------------|-----------------------|------------|------------|------------|------------|----------|
| Tipo de motor | Motor de gama alta | MG 90LC-D | MG 100LB-D | MG 100LC-D | MG 112MC-D | |
| | Motor eléctrico | MGE 90LC | MGE 100LB | MGE 100LC | MGE 112MC | |
| Datos generales NB/NK | P ₂ | [kW] | 1.5 | 2.2 | 3 | 4 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 | 65 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 225 | 225 | 225 | 225 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 4x19 | 4x19 | 4x19 | 4x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 835/971 | 859/995 | 859/995 | 896/1032 |
| | L NKE | [mm] | 835/971 | 859/995 | 859/995 | 896/1032 |
| | Peso NK | [kg] | 143/143 | 148/146 | 153/151 | 169/167 |
| | Peso NKE | [kg] | 150/149 | 159/157 | 161/159 | 174/172 |
| | Peso NK SS | [kg] | 149/148 | 154/152 | 159/157 | 175/173 |
| Datos NK | Peso NKE SS | [kg] | 156/155 | 165/163 | 167/165 | 180/178 |
| | l ₁ | [mm] | 1120 | 1120 | 1120 | 1120 |
| | l ₂ | [mm] | 190 | 190 | 190 | 190 |
| | l ₃ | [mm] | 740 | 740 | 740 | 740 |
| | b ₁ | [mm] | 380 | 380 | 380 | 380 |
| | b ₂ | [mm] | 490 | 490 | 490 | 490 |
| | b ₃ | [mm] | 440 | 440 | 440 | 440 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 260 | 260 | 260 | 260 |
| h ₄ ¹⁾ | [mm] | 370/427 | 380/437 | 380/437 | 394/448 | |
| Número de bancada | | 5 | 5 | 5 | 5 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 273 | 303 | 303 | 303 |
| | L NB SS | [mm] | 273 | 293 | 293 | 293 |
| | h ₁ | [mm] | 180 | 180 | 180 | 180 |
| | G ₁ | [mm] | 149 | 149 | 149 | 149 |
| | G ₂ | [mm] | 173 | 173 | 173 | 173 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 320 | 320 | 320 | 320 |
| | n ₂ | [mm] | 250 | 250 | 250 | 250 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 321/321 | 335/335 | 335/335 | 372/372 |
| | AD ¹⁾ | [mm] | 110/167 | 120/177 | 120/177 | 134/188 |
| | AG ¹⁾ | [mm] | 162/264 | 162/264 | 162/264 | 202/290 |
| | LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/260 | 103/300 |
| | P | [mm] | 200 | 250 | 250 | 250 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| | A | [mm] | - | - | - | - |
| | K | [mm] | - | - | - | - |
| | Peso NB ¹⁾ | [kg] | 67/73 | 70/78 | 72/80 | 87/92 |
| Peso NB SS ¹⁾ | [kg] | 73/79 | 80/88 | 82/90 | 97/102 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 65-250
4 polos



TM03 5137 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 65-250/215 | 65-250/232 | 65-250/254 | 65-250/270 | |
|----------------------------------------|--------------------|------------|------------|--------------|-------------------------|-----------|
| Tipo de motor | Motor de gama alta | MG 100LC-D | MG 112MC-D | Siemens 132S | Siemens 132M | |
| | Motor eléctrico | MGE 100LC | MGE 112MC | MGE 132SC | MMGE 132M ²⁾ | |
| Datos generales NB/NK | P ₂ | [kW] | 3 | 4 | 5.5 | 7.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 | 65 |
| | a | [mm] | 100 | 100 | 100 | 100 |
| | h ₂ | [mm] | 250 | 250 | 250 | 250 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 969/1105 | 1006/1142 | 1027/1163 | 1065/1201 |
| | L NKE | [mm] | 969/1105 | 1006/1142 | 1045/1181 | 1133/1269 |
| | Peso NK | [kg] | 217/215 | 231/228 | 235/232 | 250/247 |
| | Peso NKE | [kg] | 225/223 | 235/233 | 245/242 | 303/297 |
| | Peso NK SS | [kg] | 216/214 | 229/227 | 234/231 | 249/246 |
| | Peso NKE SS | [kg] | 224/222 | 234/232 | 244/241 | 301/296 |
| Datos NK | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 280 | 280 | 280 | 280 |
| h ₄ ¹⁾ | [mm] | 400/457 | 414/468 | 447/468 | 447/639 | |
| Número de bancada | | 6 | 6 | 6 | 6 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 323 | 323 | 343 | 343 |
| | L NB SS | [mm] | 323 | 323 | 343 | 343 |
| | h ₁ | [mm] | 200 | 200 | 200 | 200 |
| | G ₁ | [mm] | 183 | 183 | 183 | 183 |
| | G ₂ | [mm] | 200 | 200 | 200 | 200 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 360 | 360 | 360 | 360 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | - | - | - | 132 |
| | LB ¹⁾ | [mm] | 335/335 | 372/372 | 373/391 | 411/449 |
| | AD ¹⁾ | [mm] | 120/177 | 134/188 | 167/188 | 167/333 |
| | AG ¹⁾ | [mm] | 162/264 | 202/290 | 140/290 | 140/246 |
| | LL ¹⁾ | [mm] | 103/260 | 103/300 | 140/300 | 140/410 |
| | P | [mm] | 250 | 250 | 300 | 300 |
| | C | [mm] | - | - | - | 89 |
| | B | [mm] | - | - | - | 178 |
| A | [mm] | - | - | - | 216 | |
| K | [mm] | - | - | - | 12 | |
| Peso NB ¹⁾ | [kg] | 113/121 | 128/132 | 135/147 | 150/191 | |
| Peso NB SS ¹⁾ | [kg] | 116/124 | 131/135 | 138/150 | 153/194 | |

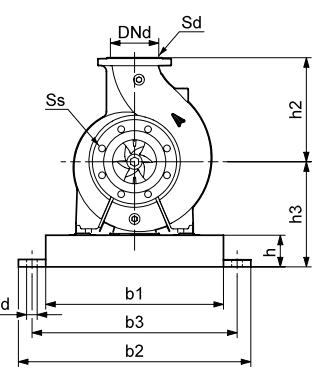
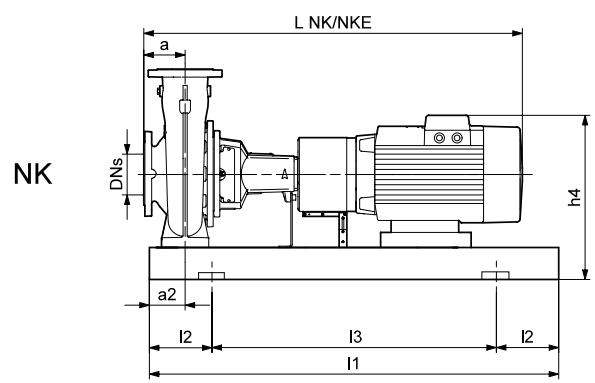
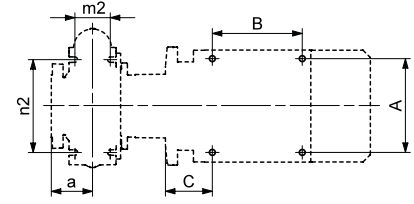
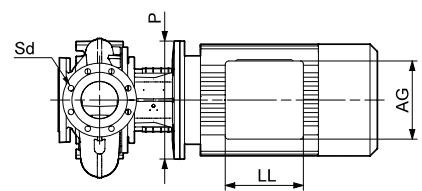
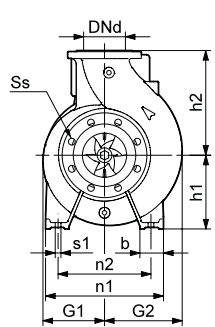
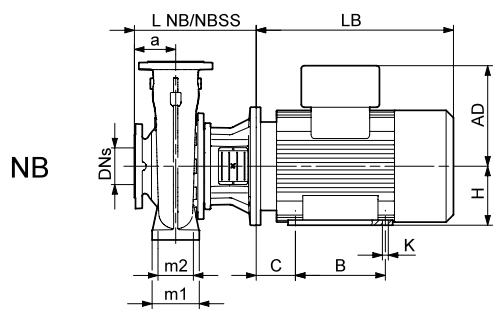
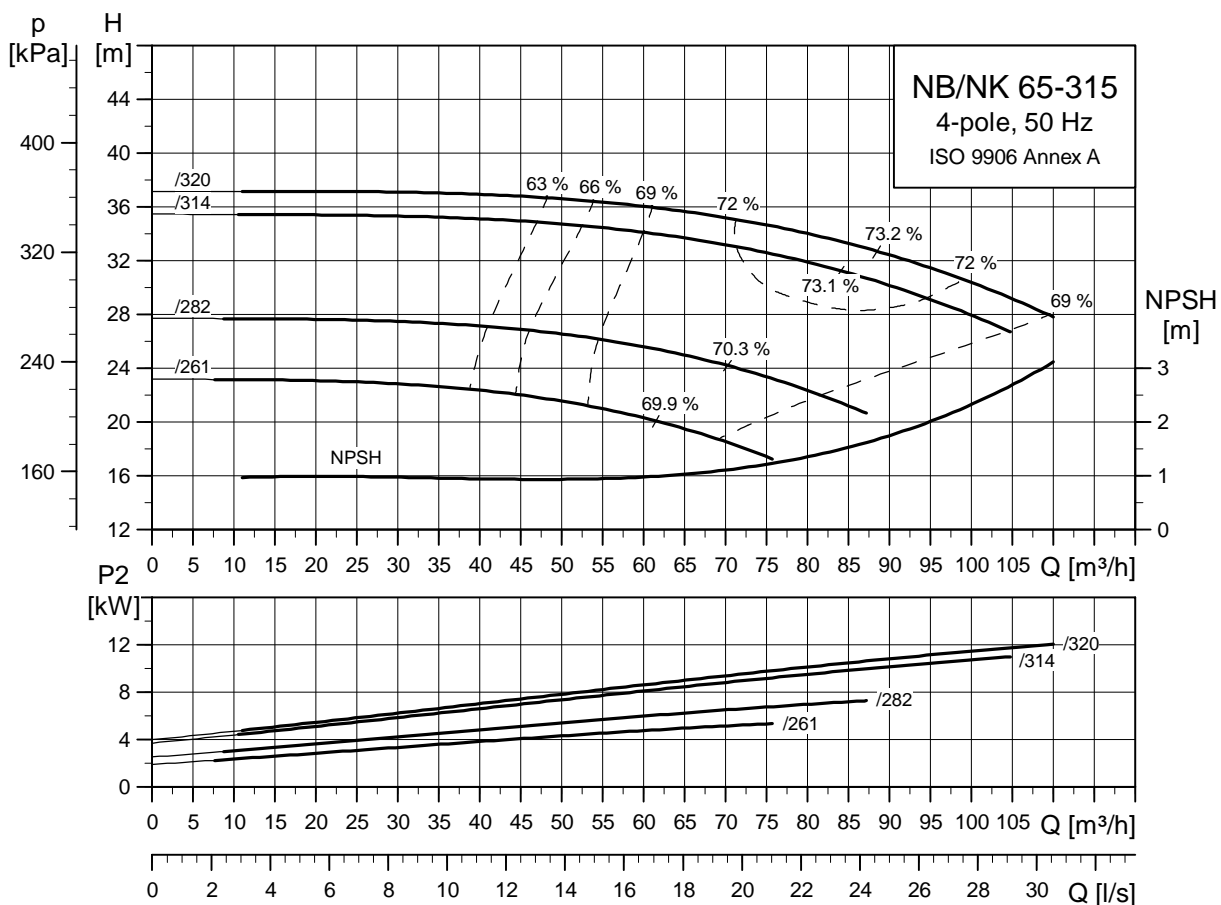
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) NBE 65-250/270 viene con un motor MMGE 132M con patas; NKE 65-250/270 viene con un motor MMGE 160M.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 65-315
4 polos



TM03 5138 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 65-315/261 | 65-315/282 | 65-315/314 | 65-315/320 | |
|----------------------------------------|------------------------------|--------------|-------------------------|--------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 132S | Siemens 132M | Siemens 160M | Siemens 160L | |
| | Motor eléctrico | MGE 132SC | MMGE 132M ³⁾ | MMGE 160M | MMGE 160L | |
| Datos generales NB/NK | P ₂ | [kW] | 5.5 | 7.5 | 11 | 15 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 80 | 80 | 80 | 80 |
| | DNd | [mm] | 65 | 65 | 65 | 65 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 4x19 | 4x19 | 4x19 | 4x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1052/1188 | 1090/1226 | 1187/1323 | 1227/1363 |
| | L NKE | [mm] | 1070/1206 | 1158/1294 | 1158/1294 | 1208/1344 |
| | Peso NK | [kg] | 278/275 | 293/290 | 317/312 | 343/338 |
| | Peso NKE | [kg] | 288/285 | 337/332 | 368/363 | 386/381 |
| | Peso NK SS | [kg] | 284/281 | 299/296 | 323/318 | 349/344 |
| | Peso NKE SS | [kg] | 294/291 | 343/338 | 374/369 | 392/387 |
| Datos NK | l ₁ | [mm] | 1400 | 1400 | 1400 | 1400 |
| | l ₂ | [mm] | 230 | 230 | 230 | 230 |
| | l ₃ | [mm] | 940 | 940 | 940 | 940 |
| | b ₁ | [mm] | 480 | 480 | 480 | 480 |
| | b ₂ | [mm] | 610 | 610 | 610 | 610 |
| | b ₃ | [mm] | 560 | 560 | 560 | 560 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 325 | 325 | 325 | 325 |
| | h ₄ ¹⁾ | [mm] | 492/513 | 492/684 | 522/684 | 522/702 |
| Número de bancada | | 7 | 7 | 7 | 7 | |
| Datos NB | Diseño | | A | A | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 368 | 368 | 398 | 398 |
| | L NB SS | [mm] | 368 | 368 | 398 | 398 |
| | h ₁ | [mm] | 225 | 225 | 225 | 225 |
| | G ₁ | [mm] | 211 | 211 | 211 | 211 |
| | G ₂ | [mm] | 219 | 219 | 219 | 219 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | - | 132 | 160 | 160 |
| | LB ¹⁾ | [mm] | 373/391 | 411/449 | 478/449 | 518/499 |
| | AD ¹⁾ | [mm] | 167/188 | 167/333 | 197/359 | 197/377 |
| | AG ¹⁾ | [mm] | 140/290 | 140/246 | 165/296 | 165/296 |
| | LL ¹⁾ | [mm] | 140/300 | 140/410 | 165/410 | 165/410 |
| | P | [mm] | 300 | 300 | 350 | 350 |
| | C | [mm] | - | 89 | 108 | 108 |
| | B | [mm] | - | 178 | 210 | 254 |
| | A | [mm] | - | 216 | 254 | 254 |
| | K | [mm] | - | 12 | 15 | 15 |
| Peso NB ¹⁾ | [kg] | 147/159 | 162/203 | 188/239 | 214/257 | |
| Peso NB SS ¹⁾ | [kg] | 158/169 | 173/214 | 200/251 | 226/269 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

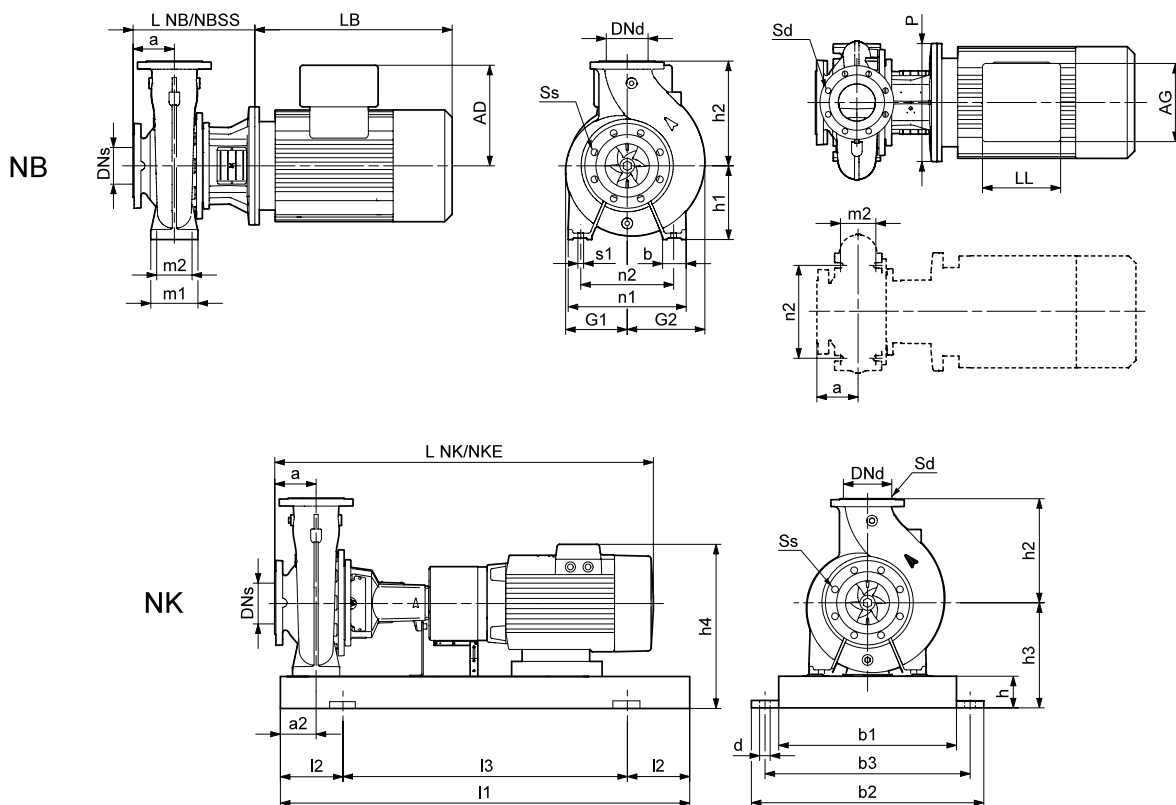
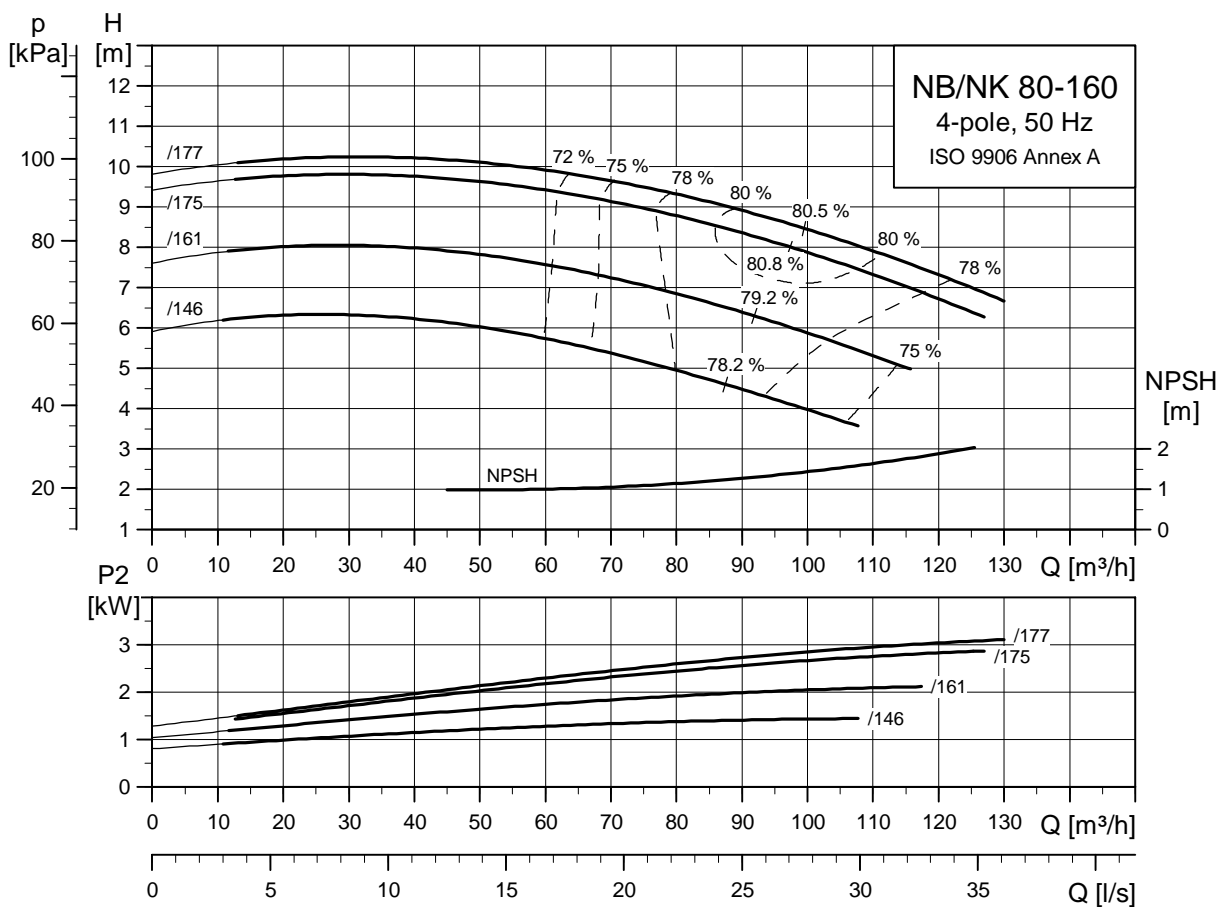
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NBE 65-315/282 viene con un motor MMGE 132M con patas; NKE 65-315/282 viene con un motor MMGE 160M.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 80-160
4 polos



TM03 5139 4106

TM03 4180 1806

TM03 6005 4106

Datos técnicos

NB, NK 80-160
4 polos

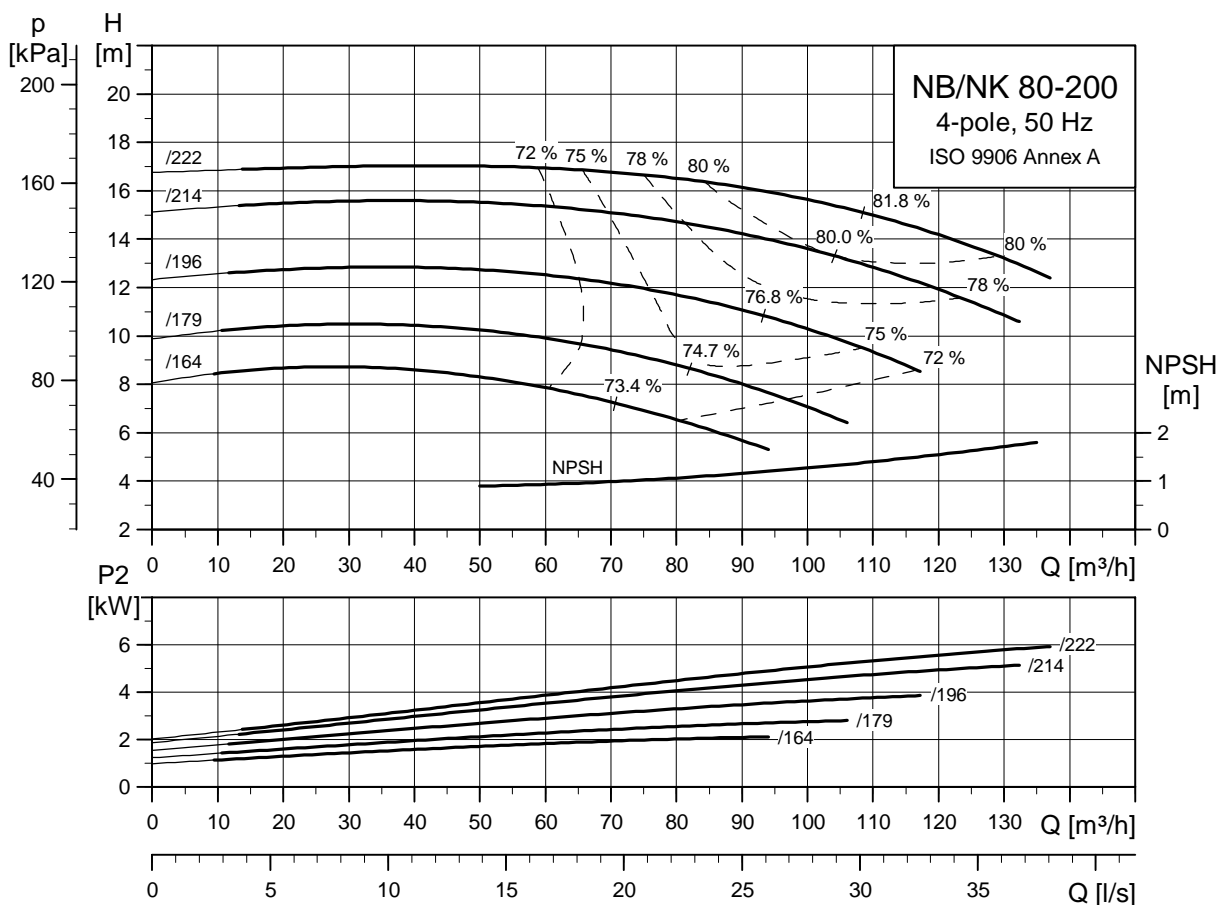
| Tipo de bomba | | 80-160/146 | 80-160/161 | 80-160/175 | 80-160/177 | |
|-----------------------------------------|------------------------------|------------|------------|------------|------------|----------|
| Tipo de motor | Motor de gama alta | MG 90LC-D | MG 100LB-D | MG 100LC-D | MG 112MC-D | |
| | Motor eléctrico | MGE 90LC | MGE 100LB | MGE 100LC | MGE 112MC | |
| Datos generales NB/NK | P ₂ | [kW] | 1.5 | 2.2 | 3 | 4 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 100 | 100 | 100 | 100 |
| | DNd | [mm] | 80 | 80 | 80 | 80 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 225 | 225 | 225 | 225 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/ espaciador | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| | L NK | [mm] | 860/996 | 884/1020 | 884/1020 | 921/1057 |
| | L NKE | [mm] | 860/996 | 884/1020 | 884/1020 | 921/1057 |
| | Peso NK | [kg] | 143/142 | 148/146 | 153/151 | 169/167 |
| | Peso NKE | [kg] | 150/149 | 159/157 | 161/159 | 174/172 |
| | Peso NK SS | [kg] | 149/149 | 154/152 | 159/157 | 175/173 |
| Datos NK | Peso NKE SS | [kg] | 156/155 | 165/163 | 167/165 | 180/178 |
| | l ₁ | [mm] | 1120 | 1120 | 1120 | 1120 |
| | l ₂ | [mm] | 190 | 190 | 190 | 190 |
| | l ₃ | [mm] | 740 | 740 | 740 | 740 |
| | b ₁ | [mm] | 380 | 380 | 380 | 380 |
| | b ₂ | [mm] | 490 | 490 | 490 | 490 |
| | b ₃ | [mm] | 440 | 440 | 440 | 440 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 260 | 260 | 260 | 260 |
| | h ₄ ¹⁾ | [mm] | 370/427 | 380/437 | 380/437 | 394/448 |
| | Número de bancada | | 5 | 5 | 5 | 5 |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 271 | 299 | 299 | 299 |
| | L NB SS | [mm] | 298 | 318 | 318 | 318 |
| | h ₁ | [mm] | 180 | 180 | 180 | 180 |
| | G ₁ | [mm] | 139 | 139 | 139 | 139 |
| | G ₂ | [mm] | 182 | 182 | 182 | 182 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 320 | 320 | 320 | 320 |
| | n ₂ | [mm] | 250 | 250 | 250 | 250 |
| | b | [mm] | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 321/321 | 335/335 | 335/335 | 372/372 |
| | AD ¹⁾ | [mm] | 110/167 | 120/177 | 120/177 | 134/188 |
| | AG ¹⁾ | [mm] | 162/264 | 162/264 | 162/264 | 202/290 |
| | LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/260 | 103/300 |
| | P | [mm] | 200 | 250 | 250 | 250 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| | A | [mm] | - | - | - | - |
| | K | [mm] | - | - | - | - |
| | Peso NB ¹⁾ | [kg] | 65/71 | 71/79 | 73/81 | 88/93 |
| Peso NB SS ¹⁾ | [kg] | 73/79 | 81/88 | 83/90 | 98/102 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

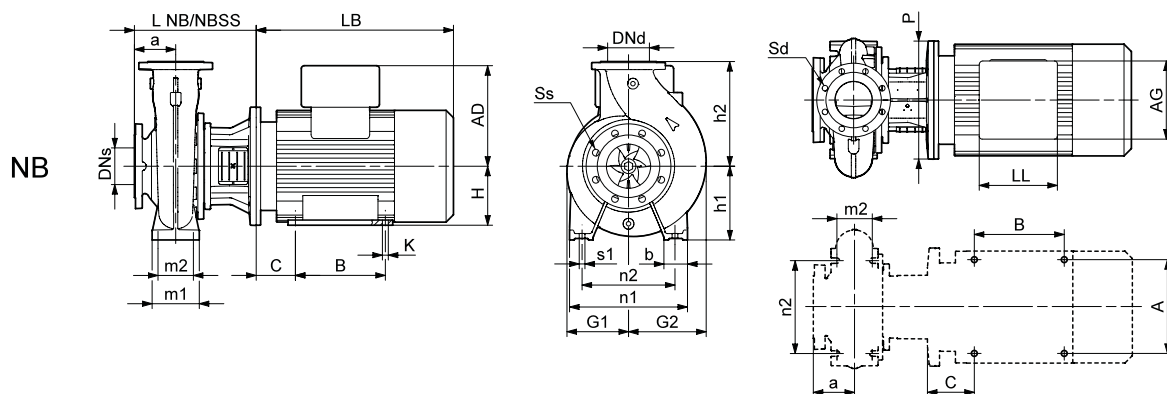
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

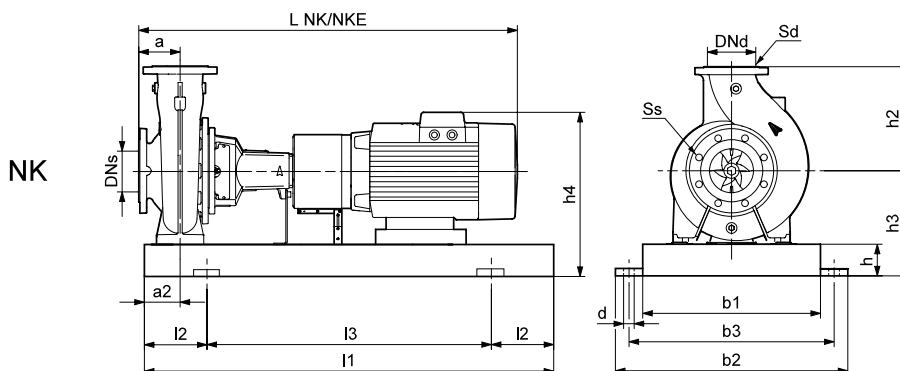
NB, NK 80-200
4 polos



TM03 5140 4106



TM03 4182 1806



TM03 6005 4106

| Tipo de bomba | | 80-200/164 | 80-200/179 | 80-200/196 | 80-200/214 | 80-200/222 | |
|-----------------------------------------|------------------------------|------------|------------|------------|--------------|-------------------------|-----------|
| Tipo de motor | Motor de gama alta | MG 100LB-D | MG 100LC-D | MG 112MC-D | Siemens 132S | Siemens 132M | |
| | Motor eléctrico | MGE 100LB | MGE 100LC | MGE 112MC | MGE 132SC | MMGE 132M ²⁾ | |
| Datos generales NB/NK | P ₂ | [kW] | 2.2 | 3 | 4 | 5.5 | 7.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 100 | 100 | 100 | 100 | 100 |
| | DNd | [mm] | 80 | 80 | 80 | 80 | 80 |
| | a | [mm] | 125 | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 250 | 250 | 250 | 250 | 250 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/ espaciador | L NK | [mm] | 994/1130 | 994/1130 | 1031/1167 | 1052/1188 | 1090/1226 |
| | L NKE | [mm] | 994/1130 | 994/1130 | 1031/1167 | 1070/1206 | 1158/1294 |
| | Peso NK | [kg] | 195/193 | 200/198 | 216/214 | 225/222 | 240/237 |
| | Peso NKE | [kg] | 206/204 | 208/206 | 221/218 | 235/232 | 279/274 |
| | Peso NK SS | [kg] | 201/199 | 206/204 | 222/220 | 232/229 | 247/244 |
| | Peso NKE SS | [kg] | 212/210 | 214/212 | 227/225 | 241/238 | 286/280 |
| Datos NK | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 | 205 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 | 840 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 | 430 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 | 540 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 75 | 75 | 75 | 75 | 75 |
| | h | [mm] | 80 | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 260 | 260 | 260 | 260 | 260 |
| | h ₄ ¹⁾ | [mm] | 380/437 | 380/437 | 394/448 | 427/448 | 427/619 |
| Número de bancada | | 6 | 6 | 6 | 6 | 6 | |
| Datos NB | Diseño | | A | A | A | A | A |
| | L NB | [mm] | 348 | 348 | 348 | 368 | 368 |
| | L NB SS | [mm] | 348 | 348 | 348 | 368 | 368 |
| | h ₁ | [mm] | 180 | 180 | 180 | 180 | 180 |
| | G ₁ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | G ₂ | [mm] | 193 | 193 | 193 | 193 | 193 |
| | m ₁ | [mm] | 125 | 125 | 125 | 125 | 125 |
| | m ₂ | [mm] | 95 | 95 | 95 | 95 | 95 |
| | n ₁ | [mm] | 345 | 345 | 345 | 345 | 345 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 | 280 |
| | b | [mm] | 65 | 65 | 65 | 65 | 65 |
| | s ₁ | [mm] | M12 | M12 | M12 | M12 | M12 |
| | H | [mm] | - | - | - | - | 132 |
| | LB ¹⁾ | [mm] | 335/335 | 335/335 | 372/372 | 373/391 | 411/449 |
| | AD ¹⁾ | [mm] | 120/177 | 120/177 | 134/188 | 167/188 | 167/333 |
| | AG ¹⁾ | [mm] | 162/264 | 162/264 | 202/290 | 140/290 | 140/246 |
| | LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/300 | 140/300 | 140/410 |
| | P | [mm] | 250 | 250 | 250 | 300 | 300 |
| | C | [mm] | - | - | - | - | 89 |
| | B | [mm] | - | - | - | - | 178 |
| | A | [mm] | - | - | - | - | 216 |
| K | [mm] | - | - | - | - | 12 | |
| Peso NB ¹⁾ | [kg] | 96/104 | 98/106 | 113/117 | 120/132 | 135/176 | |
| Peso NB SS ¹⁾ | [kg] | 106/114 | 108/116 | 123/128 | 131/143 | 146/187 | |

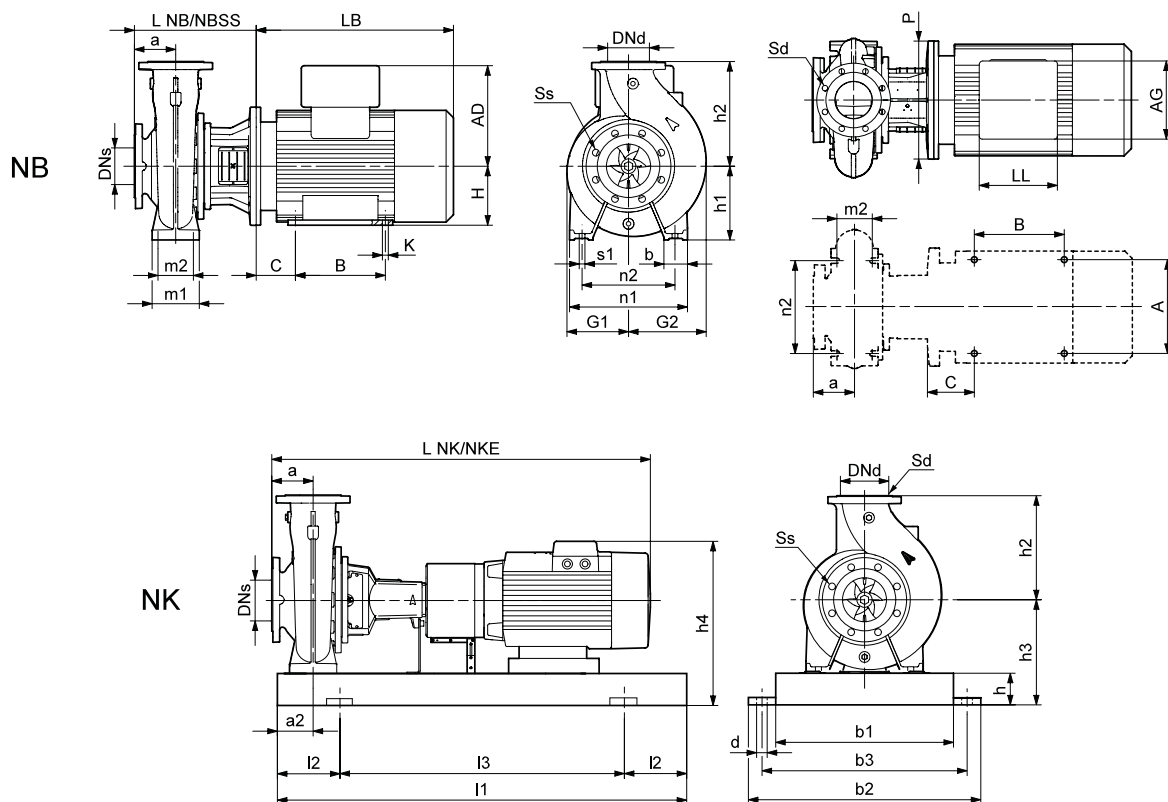
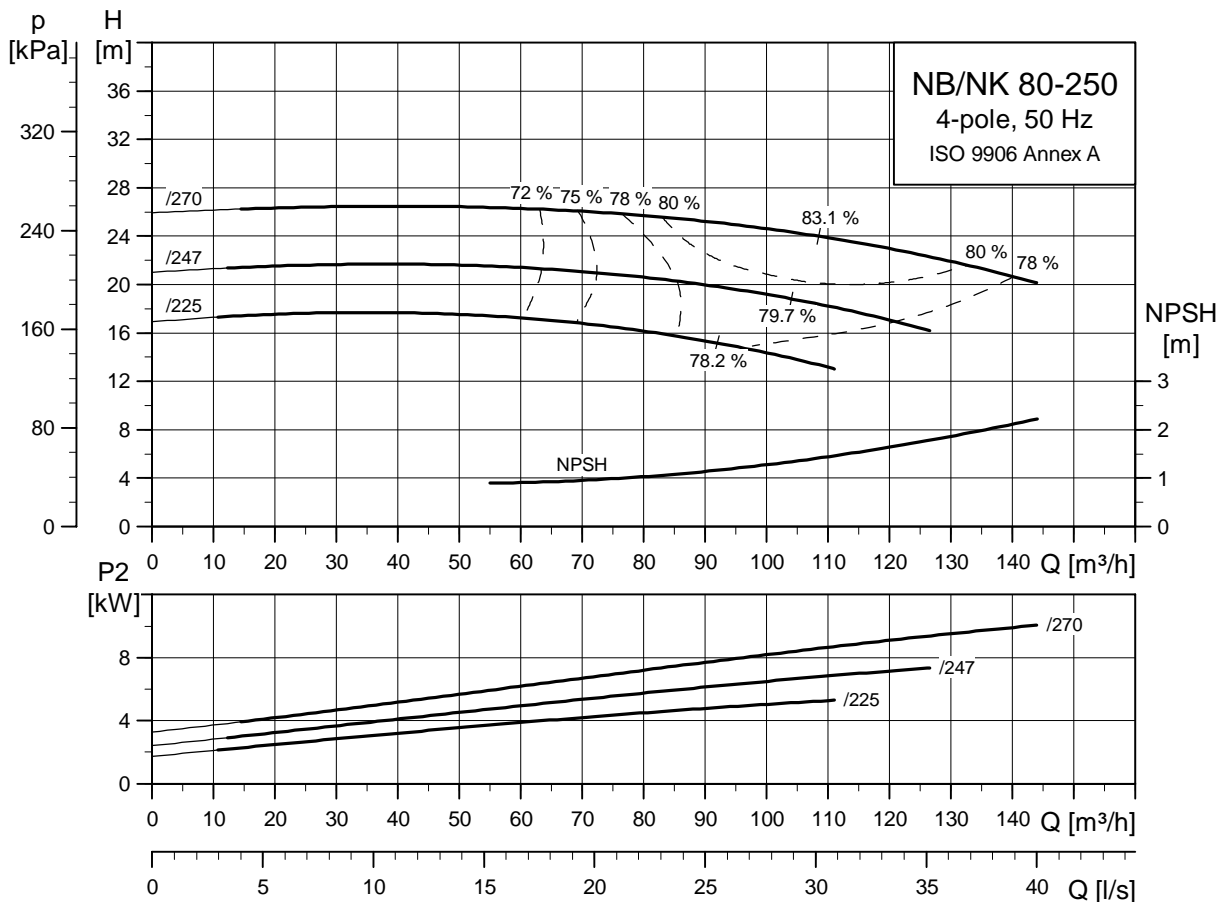
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) NBE 80-200/222 viene con un motor MMGE 132M con patas; NKE 80-200/222 viene con un motor MMGE 160M.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 80-250
4 polos



TM03 5141 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 80-250/225 | 80-250/247 | 80-250/270 | |
|----------------------------------------|------------------------------|--------------|-------------------------|--------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 132S | Siemens 132M | Siemens 160M | |
| | Motor eléctrico | MGE 132SC | MMGE 132M ³⁾ | MMGE 160M | |
| Datos generales NB/NK | P ₂ | [kW] | 5.5 | 7.5 | 11 |
| | PN | [bar] | 16 | 16 | 16 |
| | DNs | [mm] | 100 | 100 | 100 |
| | DNd | [mm] | 80 | 80 | 80 |
| | a | [mm] | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 |
| | Sd | | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1052/1188 | 1090/1226 | 1187/1323 |
| | L NKE | [mm] | 1070/1206 | 1158/1294 | 1158/1294 |
| | Peso NK | [kg] | 269/266 | 284/281 | 317/311 |
| | Peso NKE | [kg] | 279/276 | 337/331 | 368/362 |
| | Peso NK SS | [kg] | 276/273 | 291/288 | 323/318 |
| | Peso NKE SS | [kg] | 286/283 | 343/338 | 374/369 |
| Datos NK | l ₁ | [mm] | 1400 | 1400 | 1400 |
| | l ₂ | [mm] | 230 | 230 | 230 |
| | l ₃ | [mm] | 940 | 940 | 940 |
| | b ₁ | [mm] | 480 | 480 | 480 |
| | b ₂ | [mm] | 610 | 610 | 610 |
| | b ₃ | [mm] | 560 | 560 | 560 |
| | d | [mm] | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 |
| | h ₃ | [mm] | 300 | 300 | 300 |
| | h ₄ ¹⁾ | [mm] | 467/488 | 467/659 | 497/659 |
| Número de bancada | | 7 | 7 | 7 | |
| Datos NB | Diseño | | A | A | C ²⁾ |
| | L NB | [mm] | 368 | 368 | 398 |
| | L NB SS | [mm] | 368 | 368 | 398 |
| | h ₁ | [mm] | 200 | 200 | 200 |
| | G ₁ | [mm] | 182 | 182 | 182 |
| | G ₂ | [mm] | 210 | 210 | 210 |
| | m ₁ | [mm] | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 |
| | H | [mm] | - | 132 | 160 |
| | LB ¹⁾ | [mm] | 373/391 | 411/449 | 478/449 |
| | AD ¹⁾ | [mm] | 167/188 | 167/333 | 197/359 |
| | AG ¹⁾ | [mm] | 140/290 | 140/246 | 165/296 |
| | LL ¹⁾ | [mm] | 140/300 | 140/410 | 165/410 |
| | P | [mm] | 300 | 300 | 350 |
| | C | [mm] | - | 89 | 108 |
| | B | [mm] | - | 178 | 210 |
| | A | [mm] | - | 216 | 254 |
| K | [mm] | - | 12 | 15 | |
| Peso NB ¹⁾ | [kg] | 139/151 | 154/195 | 180/231 | |
| Peso NB SS ¹⁾ | [kg] | 150/162 | 165/206 | 192/243 | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

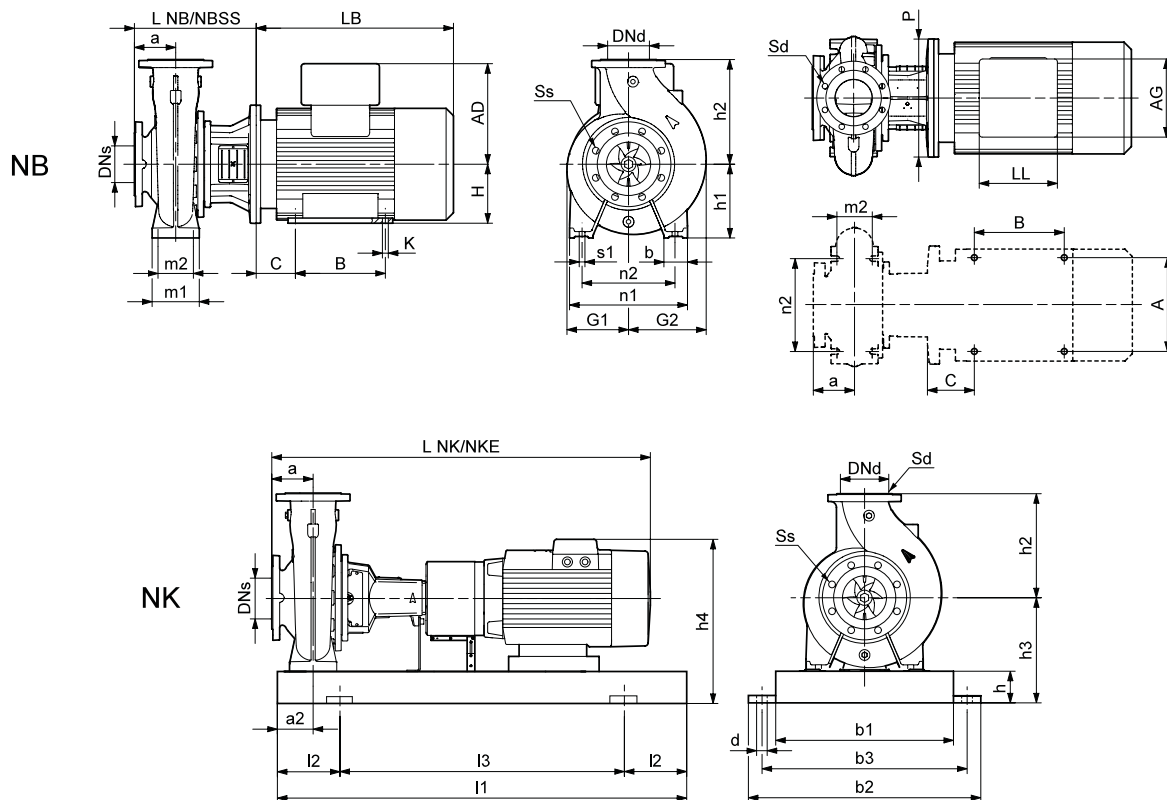
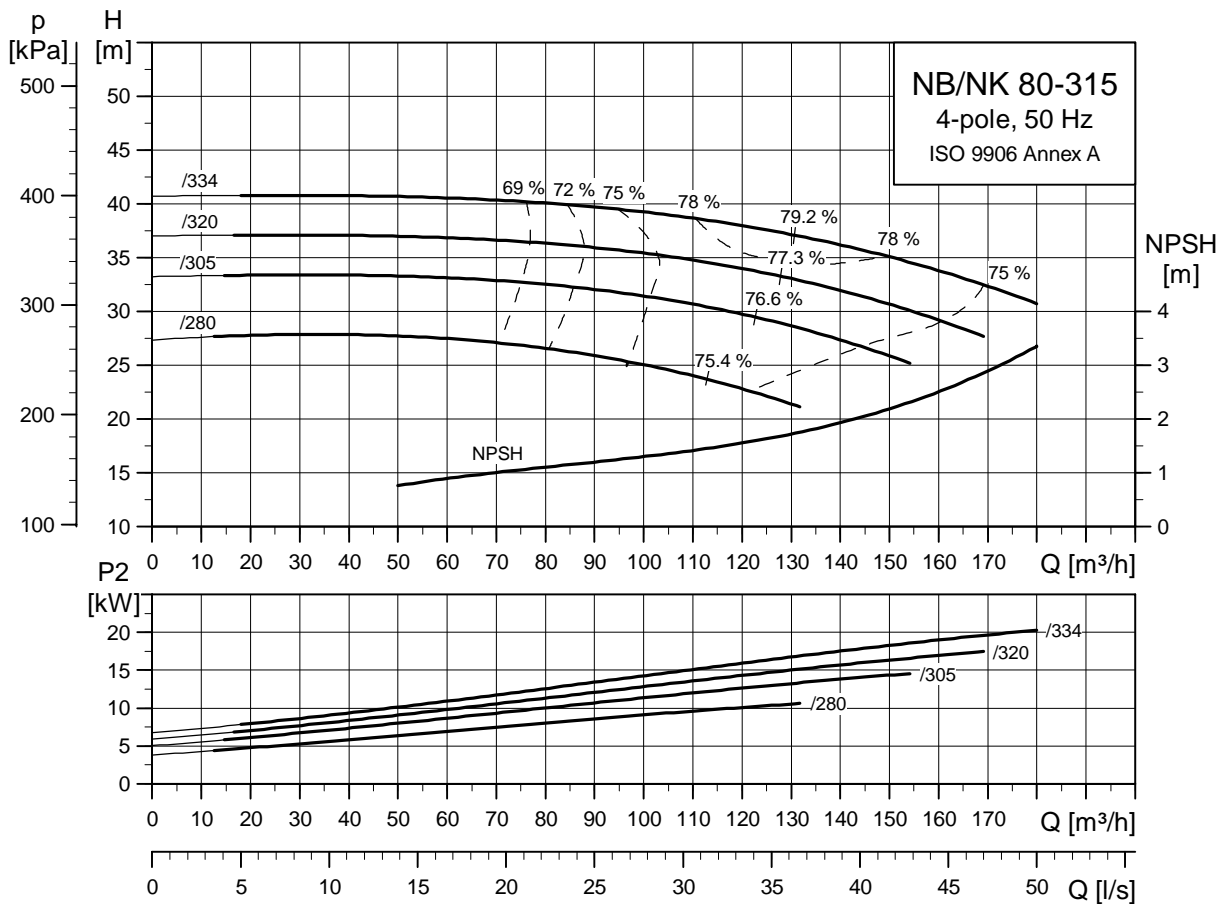
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NBE 80-250/247 viene con un motor MMGE 132M con patas; NKE 80-250/247 viene con un motor MMGE 160M.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 80-315
4 polos



TM03 5142 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 80-315/280 | 80-315/305 | 80-315/320 | 80-315/334 | |
|----------------------------------------|--------------------|--------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160M | Siemens 160L | Siemens 180M | Siemens 180L | |
| | Motor eléctrico | MMGE 160M | MMGE 160L | MMGE 180M | MMGE 180L | |
| Datos generales NB/NK | P ₂ | [kW] | 11 | 15 | 18.5 | 22 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 100 | 100 | 100 | 100 |
| | DNd | [mm] | 80 | 80 | 80 | 80 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 315 | 315 | 315 | 315 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1187/1323 | 1227/1363 | 1311/1447 | 1311/1447 |
| | L NKE | [mm] | 1158/1294 | 1208/1344 | 1208/1344 | 1279/1415 |
| | Peso NK | [kg] | 330/324 | 356/350 | 380/371 | 400/391 |
| | Peso NKE | [kg] | 381/375 | 399/393 | 437/428 | 471/462 |
| | Peso NK SS | [kg] | 337/332 | 363/358 | 388/379 | 408/399 |
| Peso NKE SS | [kg] | 388/383 | 406/401 | 445/436 | 479/470 | |
| Datos NK | l ₁ | [mm] | 1400 | 1400 | 1400 | 1400 |
| | l ₂ | [mm] | 230 | 230 | 230 | 230 |
| | l ₃ | [mm] | 940 | 940 | 940 | 940 |
| | b ₁ | [mm] | 480 | 480 | 480 | 480 |
| | b ₂ | [mm] | 610 | 610 | 610 | 610 |
| | b ₃ | [mm] | 560 | 560 | 560 | 560 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 350 | 350 | 350 | 350 |
| h ₄ ¹⁾ | [mm] | 547/709 | 547/727 | 608/749 | 608/749 | |
| Número de bancada | | 7 | 7 | 7 | 7 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 398 | 398 | 398 | 398 |
| | L NB SS | [mm] | 398 | 398 | 398 | 398 |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 216 | 216 | 216 | 216 |
| | G ₂ | [mm] | 243 | 243 | 243 | 243 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | 160 | 160 | 180 | 180 |
| | LB ¹⁾ | [mm] | 478/449 | 518/499 | 602/499 | 602/570 |
| | AD ¹⁾ | [mm] | 197/359 | 197/377 | 258/399 | 258/399 |
| | AG ¹⁾ | [mm] | 165/296 | 165/296 | 152/328 | 152/328 |
| | LL ¹⁾ | [mm] | 165/410 | 165/410 | 132/456 | 132/456 |
| | P | [mm] | 350 | 350 | 350 | 350 |
| | C | [mm] | 108 | 108 | 121 | 121 |
| | B | [mm] | 210 | 254 | 241 | 279 |
| A | [mm] | 254 | 254 | 279 | 279 | |
| K | [mm] | 15 | 15 | 15 | 15 | |
| Peso NB ¹⁾ | [kg] | 199/250 | 225/268 | 244/301 | 264/335 | |
| Peso NB SS ¹⁾ | [kg] | 212/263 | 238/281 | 256/313 | 276/347 | |

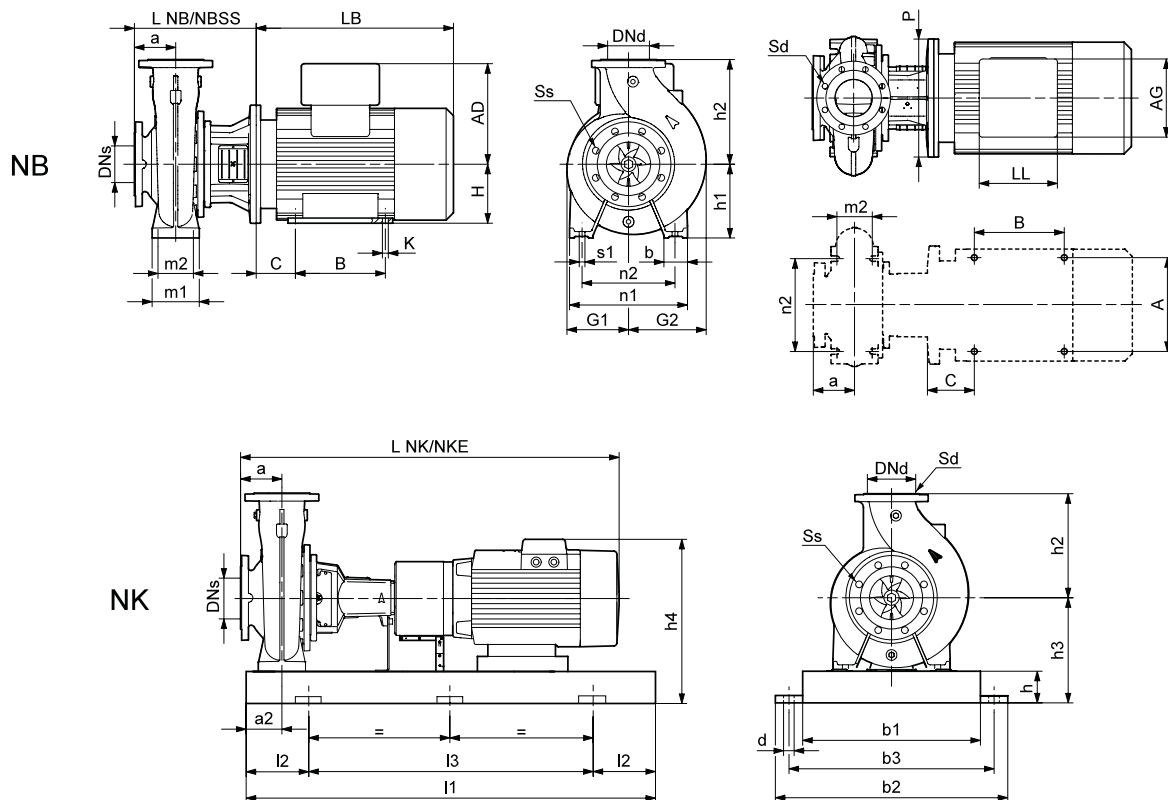
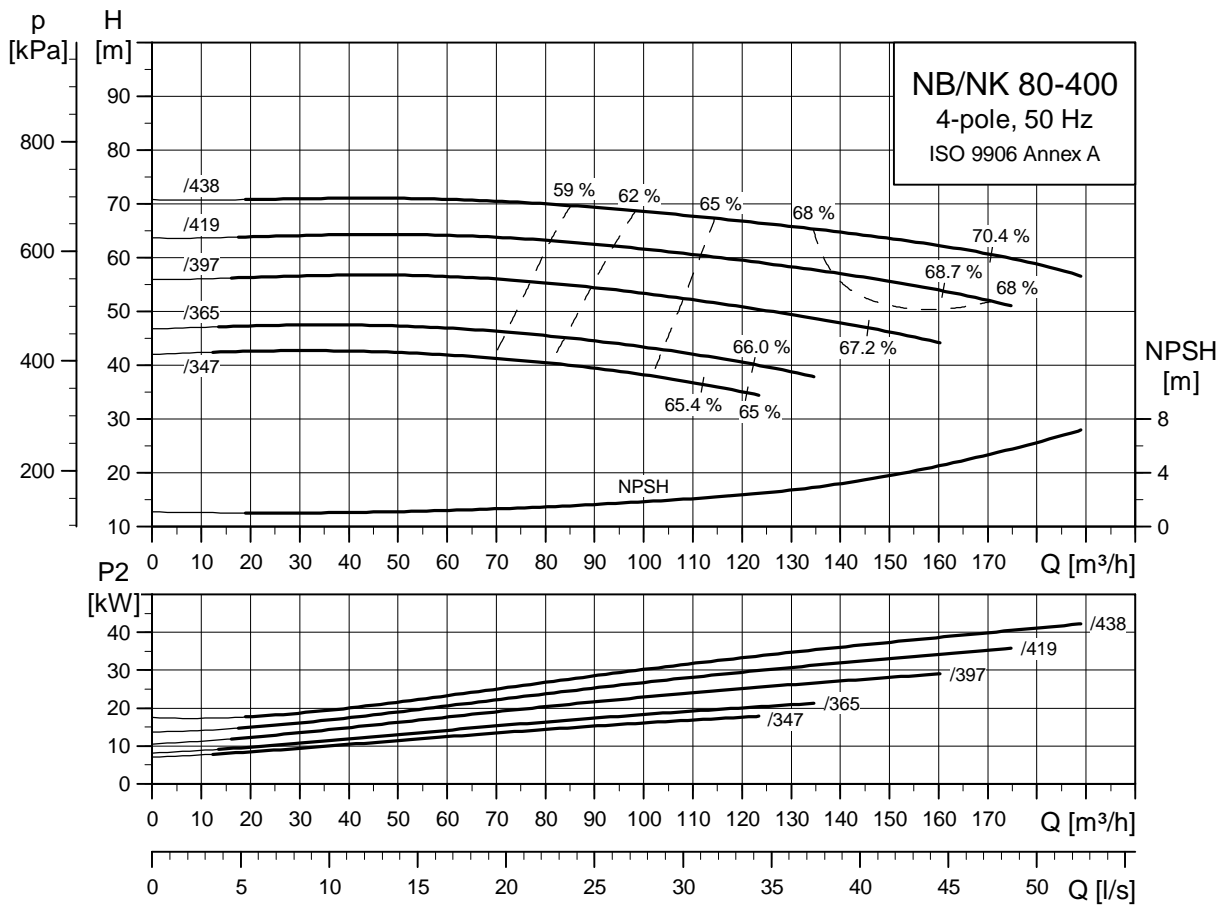
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 80-400
4 polos



TM03 5143 4106

TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 80-400/347 | 80-400/365 | 80-400/397 | 80-400/419 | 80-400/438 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 180M | Siemens 180L | Siemens 200L | Siemens 225S | Siemens 225M | |
| | Motor eléctrico | MMGE 180M | MMGE 180L | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 18.5 | 22 | 30 | 37 | 45 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 100 | 100 | 100 | 100 | 100 |
| | DNd | [mm] | 80 | 80 | 80 | 80 | 80 |
| | a | [mm] | 125 | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 355 | 355 | 355 | 355 | 355 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1371/1507 | 1371/1507 | 1428/1564 | 1448/1584 | 1508/1644 |
| | L NKE | [mm] | 1268/1404 | 1339/1475 | -/- | -/- | -/- |
| | Peso NK | [kg] | 499/492 | 519/512 | 574/569 | 690/685 | 730/725 |
| | Peso NKE | [kg] | 556/549 | 590/583 | -/- | -/- | -/- |
| | Peso NK SS | [kg] | 480/473 | 500/493 | 555/550 | 671/666 | 711/706 |
| Datos NK | l ₁ | [mm] | 1600 | 1600 | 1600 | 1600 | 1600 |
| | l ₂ | [mm] | 270 | 270 | 270 | 270 | 270 |
| | l ₃ | [mm] | 1060 | 1060 | 1060 | 1060 | 1060 |
| | b ₁ | [mm] | 530 | 530 | 530 | 530 | 530 |
| | b ₂ | [mm] | 660 | 660 | 660 | 660 | 660 |
| | b ₃ | [mm] | 600 | 600 | 600 | 600 | 600 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 383 | 383 | 380 | 380 | 380 |
| | h ₄ ¹⁾ | [mm] | 641/782 | 641/782 | 685/- | 705/- | 705/- |
| Número de bancada | | 8 | 8 | 8 | 8 | 8 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 396 | 396 | 396 | 426 | 426 |
| | L NB SS | [mm] | 398 | 398 | 398 | 428 | 428 |
| | h ₁ | [mm] | 280 | 280 | 280 | 280 | 280 |
| | G ₁ | [mm] | 266 | 266 | 266 | 266 | 266 |
| | G ₂ | [mm] | 287 | 287 | 287 | 287 | 287 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 435 | 435 | 435 | 435 | 435 |
| | n ₂ | [mm] | 355 | 355 | 355 | 355 | 355 |
| | b | [mm] | 80 | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 | M16 |
| | H | [mm] | 180 | 180 | 200 | 225 | 225 |
| | LB ¹⁾ | [mm] | 602/499 | 602/570 | 659/- | 649/- | 709/- |
| | AD ¹⁾ | [mm] | 258/399 | 258/399 | 305/- | 325/- | 325/- |
| | AG ¹⁾ | [mm] | 152/328 | 152/328 | 260/- | 260/- | 260/- |
| | LL ¹⁾ | [mm] | 132/456 | 132/456 | 192/- | 192/- | 192/- |
| | P | [mm] | 350 | 350 | 400 | 450 | 450 |
| | C | [mm] | 121 | 121 | 133 | 149 | 149 |
| | B | [mm] | 241 | 279 | 305 | 286 | 286 |
| A | [mm] | 279 | 279 | 318 | 356 | 356 | |
| K | [mm] | 15 | 15 | 19 | 19 | 19 | |
| Peso NB ¹⁾ | [kg] | 319/376 | 339/410 | 398/- | 500/- | 540/- | |
| Peso NB SS ¹⁾ | [kg] | 300/357 | 320/391 | 379/- | 481/- | 521/- | |

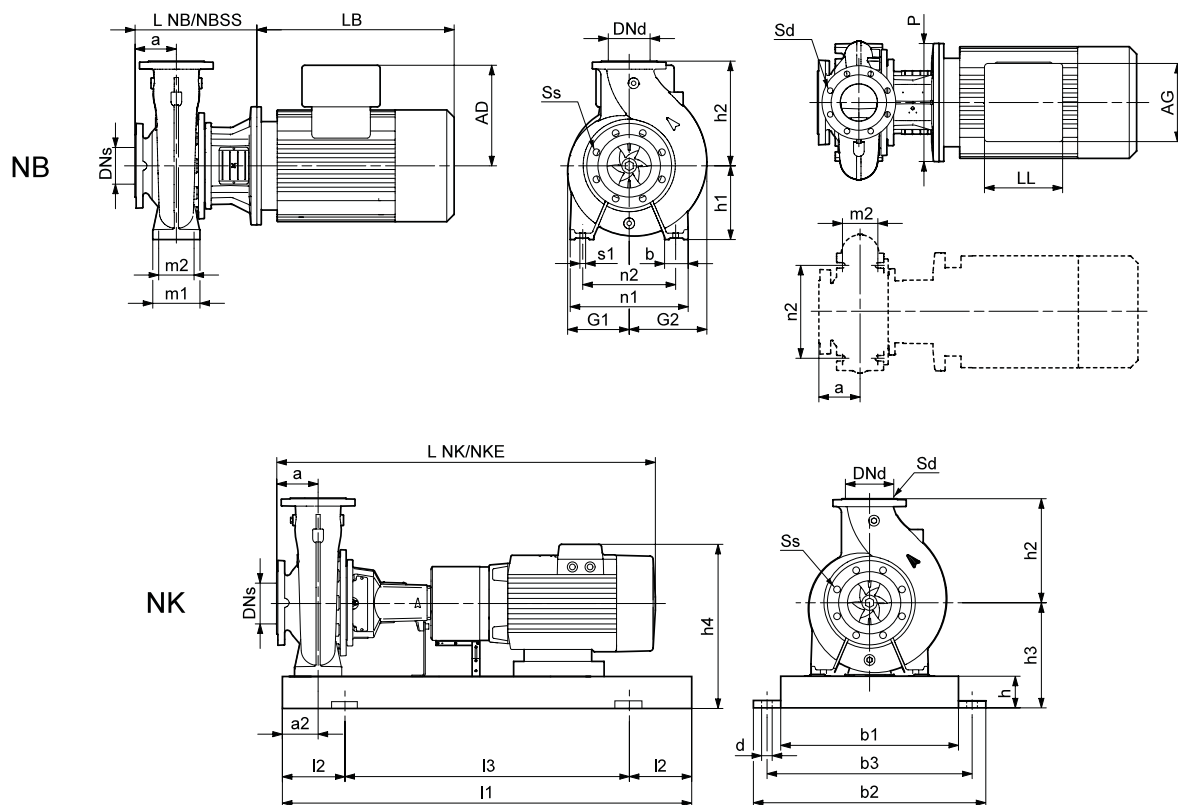
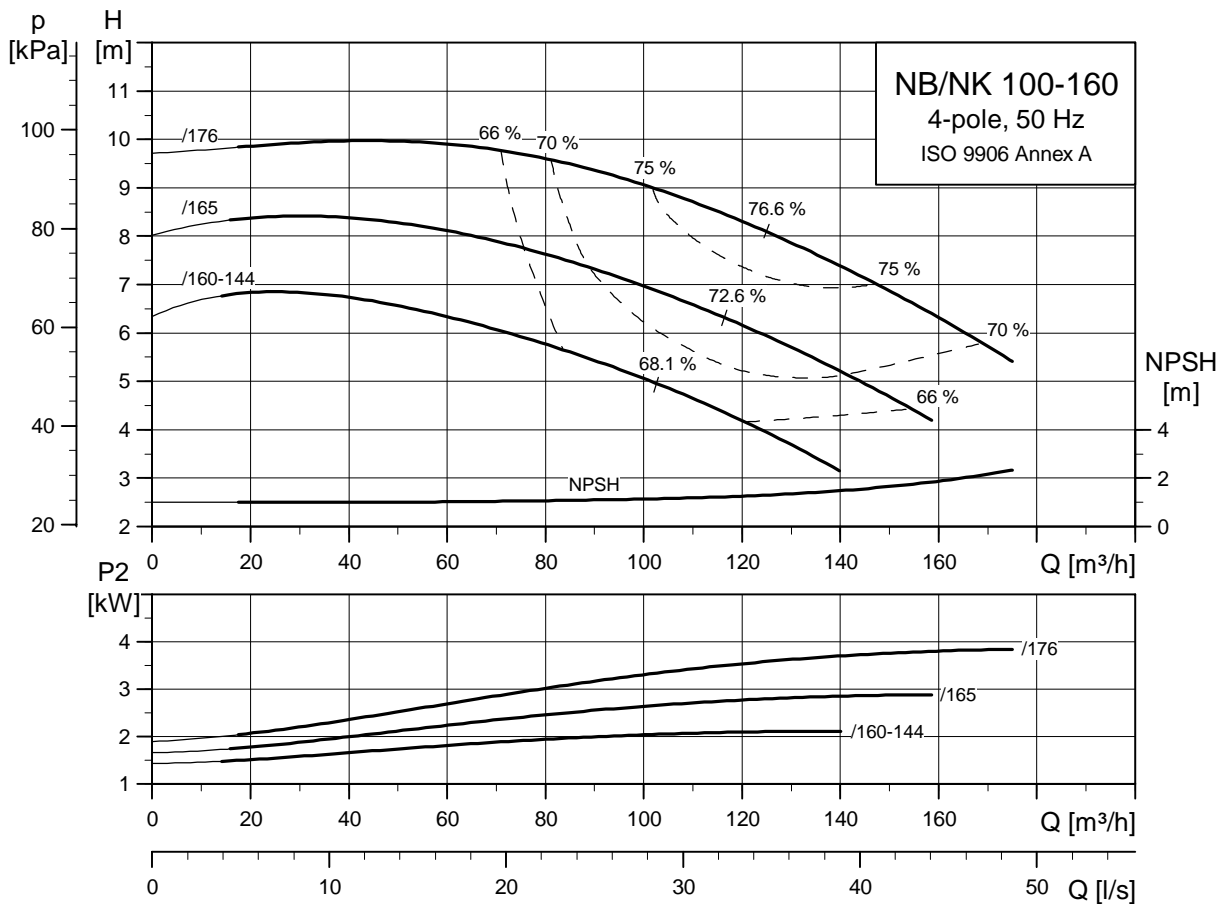
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-160
4 polos



TM03 5144 4106

TM03 4180 1806

TM03 6005 4106

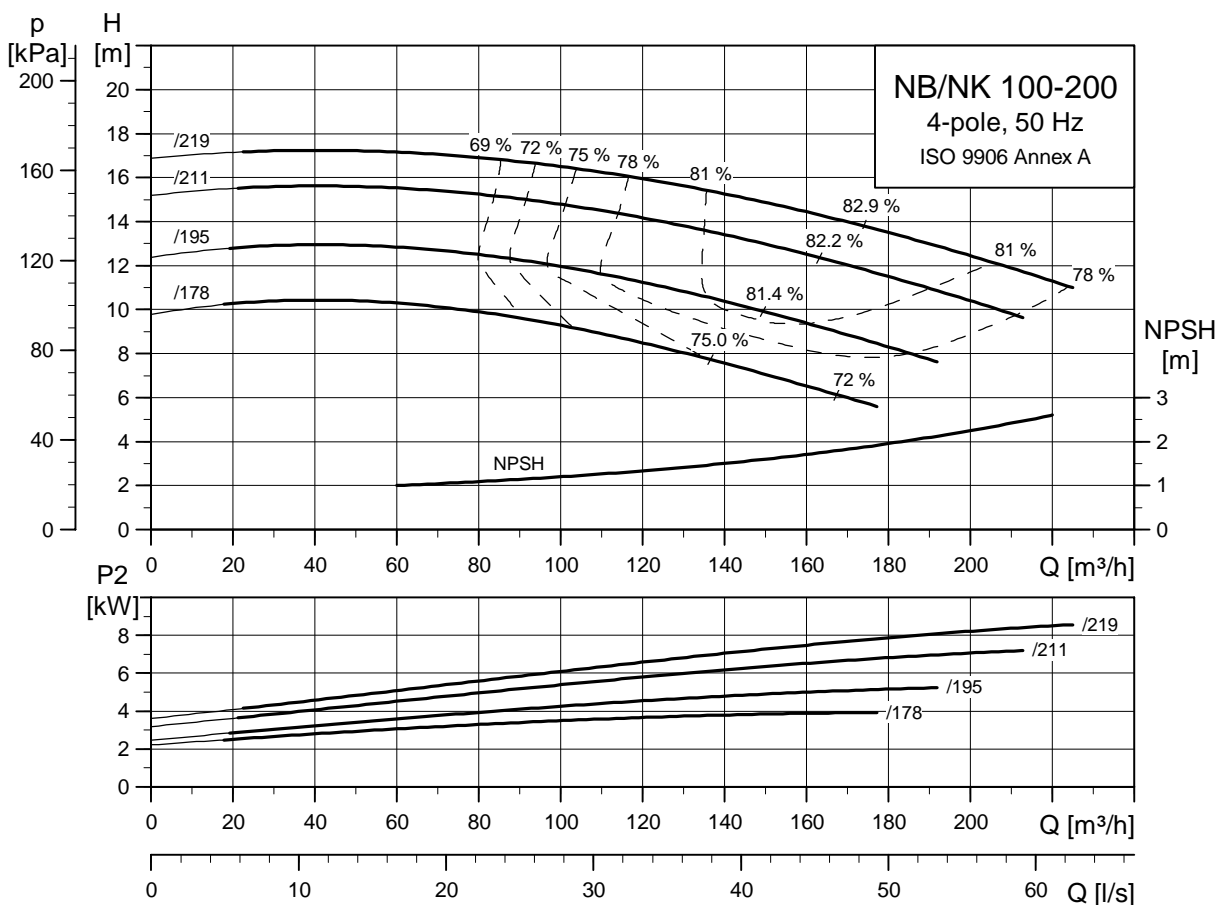
| Tipo de bomba | | 100-160/160-144 | 100-160/165 | 100-160/176 | |
|----------------------------------------|------------------------------|-----------------|-------------|-------------|----------|
| Tipo de motor | Motor de gama alta | MG 100LB-D | MG 100LC-D | MG 112MC-D | |
| | Motor eléctrico | MGE 100LB | MGE 100LC | MGE 112MC | |
| Datos generales NB/NK | P ₂ | [kW] | 2.2 | 3 | 4 |
| | PN | [bar] | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 |
| | a | [mm] | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | Sd | | 8x19 | 8x19 | |
| | L NK | [mm] | 884/1020 | 884/1020 | 921/1057 |
| | L NKE | [mm] | 884/1020 | 884/1020 | 921/1057 |
| | Peso NK | [kg] | 186/184 | 191/189 | 204/202 |
| | Peso NKE | [kg] | 197/195 | 199/197 | 209/206 |
| | Peso NK SS | [kg] | -/- | -/- | -/- |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- |
| | l ₁ | [mm] | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 205 | 205 | 205 |
| | l ₃ | [mm] | 840 | 840 | 840 |
| | b ₁ | [mm] | 430 | 430 | 430 |
| | b ₂ | [mm] | 540 | 540 | 540 |
| | b ₃ | [mm] | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 |
| | a ₂ | [mm] | 90 | 90 | 90 |
| | h | [mm] | 80 | 80 | 80 |
| | h ₃ | [mm] | 280 | 280 | 280 |
| Datos NB | h ₄ ¹⁾ | [mm] | 400/457 | 400/457 | 414/468 |
| | Número de bancada | | 6 | 6 | 6 |
| | Diseño | | A | A | A |
| | L NB | [mm] | 318 | 318 | 318 |
| | L NB SS | [mm] | - | - | - |
| | h ₁ | [mm] | 200 | 200 | 200 |
| | G ₁ | [mm] | 146 | 146 | 146 |
| | G ₂ | [mm] | 187 | 187 | 187 |
| | m ₁ | [mm] | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 |
| | n ₁ | [mm] | 360 | 360 | 360 |
| | n ₂ | [mm] | 280 | 280 | 280 |
| | b | [mm] | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 |
| | H | [mm] | - | - | - |
| | LB ¹⁾ | [mm] | 335/335 | 335/335 | 372/372 |
| | AD ¹⁾ | [mm] | 120/177 | 120/177 | 134/188 |
| | AG ¹⁾ | [mm] | 162/264 | 162/264 | 202/290 |
| | LL ¹⁾ | [mm] | 103/260 | 103/260 | 103/300 |
| | P | [mm] | 250 | 250 | 250 |
| C | [mm] | - | - | - | |
| B | [mm] | - | - | - | |
| A | [mm] | - | - | - | |
| K | [mm] | - | - | - | |
| Peso NB ¹⁾ | [kg] | 97/104 | 99/106 | 114/118 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

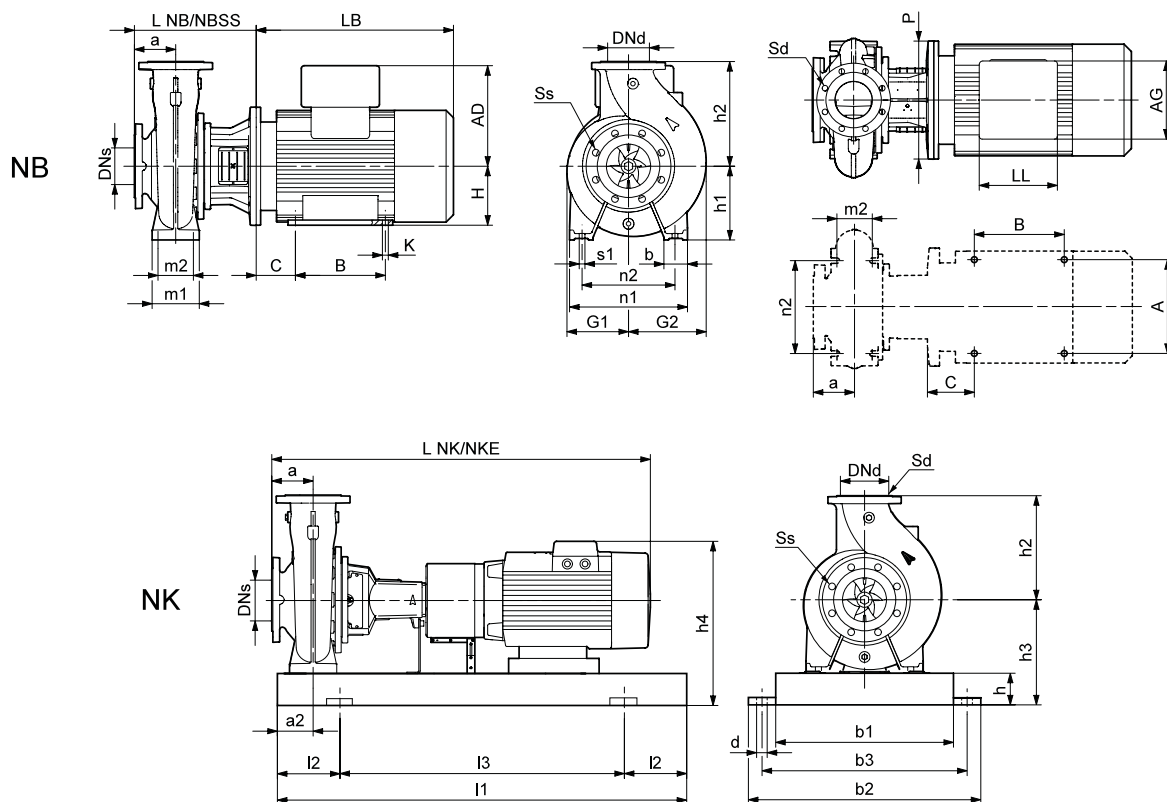
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-200
4 polos



TM03 5145 4106



TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 100-200/178 | 100-200/195 | 100-200/211 | 100-200/219 | |
|----------------------------------------|------------------------------|-------------|--------------|-------------------------|--------------|-----------|
| Tipo de motor | Motor de gama alta | MG 112MC-D | Siemens 132S | Siemens 132M | Siemens 160M | |
| | Motor eléctrico | MGE 112MC | MGE 132SC | MMGE 132M ³⁾ | MMGE 160M | |
| Datos generales NB/NK | P ₂ | [kW] | 4 | 5.5 | 7.5 | 11 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1031/1167 | 1052/1188 | 1090/1226 | 1187/1323 |
| | L NKE | [mm] | 1031/1167 | 1070/1206 | 1158/1294 | 1158/1294 |
| | Peso NK | [kg] | 228/226 | 233/230 | 248/245 | 280/275 |
| | Peso NKE | [kg] | 233/231 | 243/240 | 300/295 | 331/326 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 280 | 280 | 280 | 280 |
| | h ₄ ¹⁾ | [mm] | 414/468 | 447/468 | 447/639 | 477/639 |
| | Número de bancada | | 6 | 6 | 6 | 6 |
| | Datos NB | Diseño | | A | A | A |
| L NB | | [mm] | 348 | 368 | 368 | 398 |
| L NB SS | | [mm] | - | - | - | - |
| h ₁ | | [mm] | 200 | 200 | 200 | 200 |
| G ₁ | | [mm] | 169 | 169 | 169 | 169 |
| G ₂ | | [mm] | 212 | 212 | 212 | 212 |
| m ₁ | | [mm] | 160 | 160 | 160 | 160 |
| m ₂ | | [mm] | 120 | 120 | 120 | 120 |
| n ₁ | | [mm] | 360 | 360 | 360 | 360 |
| n ₂ | | [mm] | 280 | 280 | 280 | 280 |
| b | | [mm] | 80 | 80 | 80 | 80 |
| s ₁ | | [mm] | M16 | M16 | M16 | M16 |
| H | | [mm] | - | - | 132 | 160 |
| LB ¹⁾ | | [mm] | 372/372 | 373/391 | 411/449 | 478/449 |
| AD ¹⁾ | | [mm] | 134/188 | 167/188 | 167/333 | 197/359 |
| AG ¹⁾ | | [mm] | 202/290 | 140/290 | 140/246 | 165/296 |
| LL ¹⁾ | | [mm] | 103/300 | 140/300 | 140/410 | 165/410 |
| P | | [mm] | 250 | 300 | 300 | 350 |
| C | | [mm] | - | - | 89 | 108 |
| B | | [mm] | - | - | 178 | 210 |
| A | | [mm] | - | - | 216 | 254 |
| K | | [mm] | - | - | 12 | 15 |
| Peso NB ¹⁾ | | [kg] | 126/130 | 133/144 | 148/189 | 174/225 |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

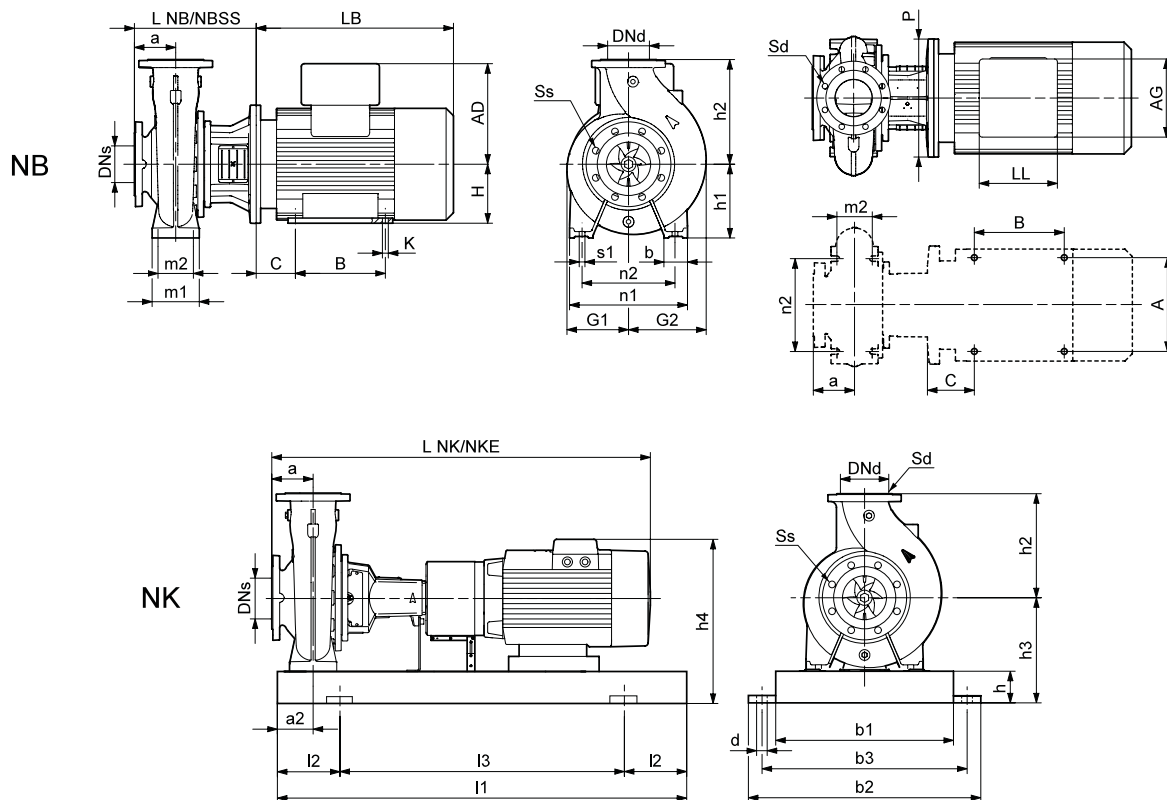
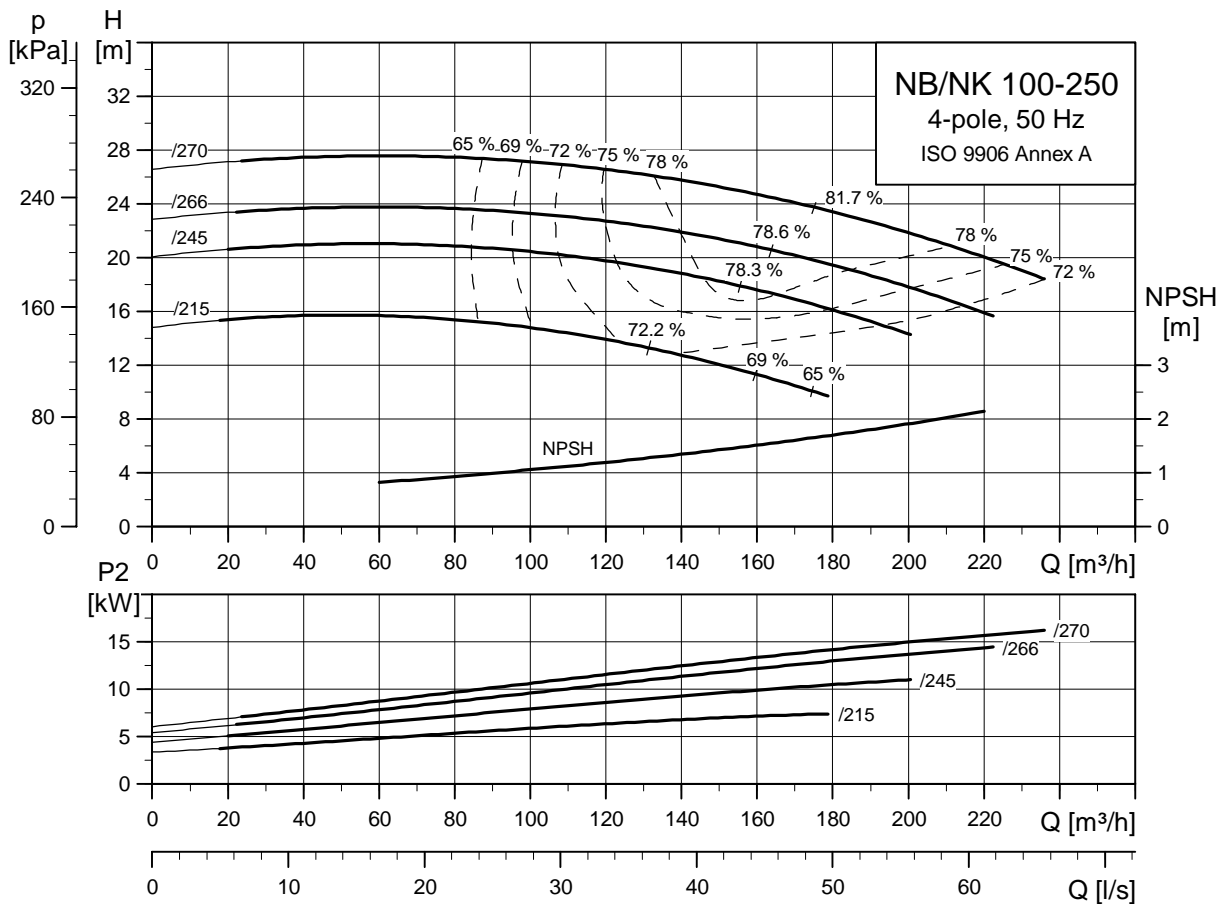
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NBE 100-200/211 viene con un motor MMGE 132M con patas; NKE 100-200/211 viene con un motor MMGE 160M.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-250
4 polos



TM03 5146 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 100-250/215 | 100-250/245 | 100-250/266 | 100-250/270 | |
|----------------------------------------|------------------------------|-------------------------|--------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 132M | Siemens 160M | Siemens 160L | Siemens 180M | |
| | Motor eléctrico | MMGE 132M ³⁾ | MMGE 160M | MMGE 160L | MMGE 180M | |
| Datos generales NB/NK | P ₂ | [kW] | 7.5 | 11 | 15 | 18.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1105/1241 | 1202/1338 | 1242/1378 | 1326/1462 |
| | L NKE | [mm] | 1173/1309 | 1173/1309 | 1223/1359 | 1223/1359 |
| | Peso NK | [kg] | 292/289 | 316/311 | 342/337 | 377/369 |
| | Peso NKE | [kg] | 336/331 | 367/362 | 385/380 | 434/426 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1400 | 1400 | 1400 | 1400 |
| | l ₂ | [mm] | 230 | 230 | 230 | 230 |
| | l ₃ | [mm] | 940 | 940 | 940 | 940 |
| | b ₁ | [mm] | 480 | 480 | 480 | 480 |
| | b ₂ | [mm] | 610 | 610 | 610 | 610 |
| | b ₃ | [mm] | 560 | 560 | 560 | 560 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 325 | 325 | 325 | 325 |
| | h ₄ ¹⁾ | [mm] | 492/684 | 522/684 | 522/702 | 583/724 |
| Número de bancada | | 7 | 7 | 7 | 7 | |
| Datos NB | Diseño | | A | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 383 | 413 | 413 | 413 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 225 | 225 | 225 | 225 |
| | G ₁ | [mm] | 188 | 188 | 188 | 188 |
| | G ₂ | [mm] | 224 | 224 | 224 | 224 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | 132 | 160 | 160 | 180 |
| | LB ¹⁾ | [mm] | 411/449 | 478/449 | 518/499 | 602/499 |
| | AD ¹⁾ | [mm] | 167/333 | 197/359 | 197/377 | 258/399 |
| | AG ¹⁾ | [mm] | 140/246 | 165/296 | 165/296 | 152/328 |
| | LL ¹⁾ | [mm] | 140/410 | 165/410 | 165/410 | 132/456 |
| | P | [mm] | 300 | 350 | 350 | 350 |
| | C | [mm] | 89 | 108 | 108 | 121 |
| | B | [mm] | 178 | 210 | 254 | 241 |
| | A | [mm] | 216 | 254 | 254 | 279 |
| K | [mm] | 12 | 15 | 15 | 15 | |
| Peso NB ¹⁾ | [kg] | 161/202 | 187/238 | 213/256 | 233/290 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

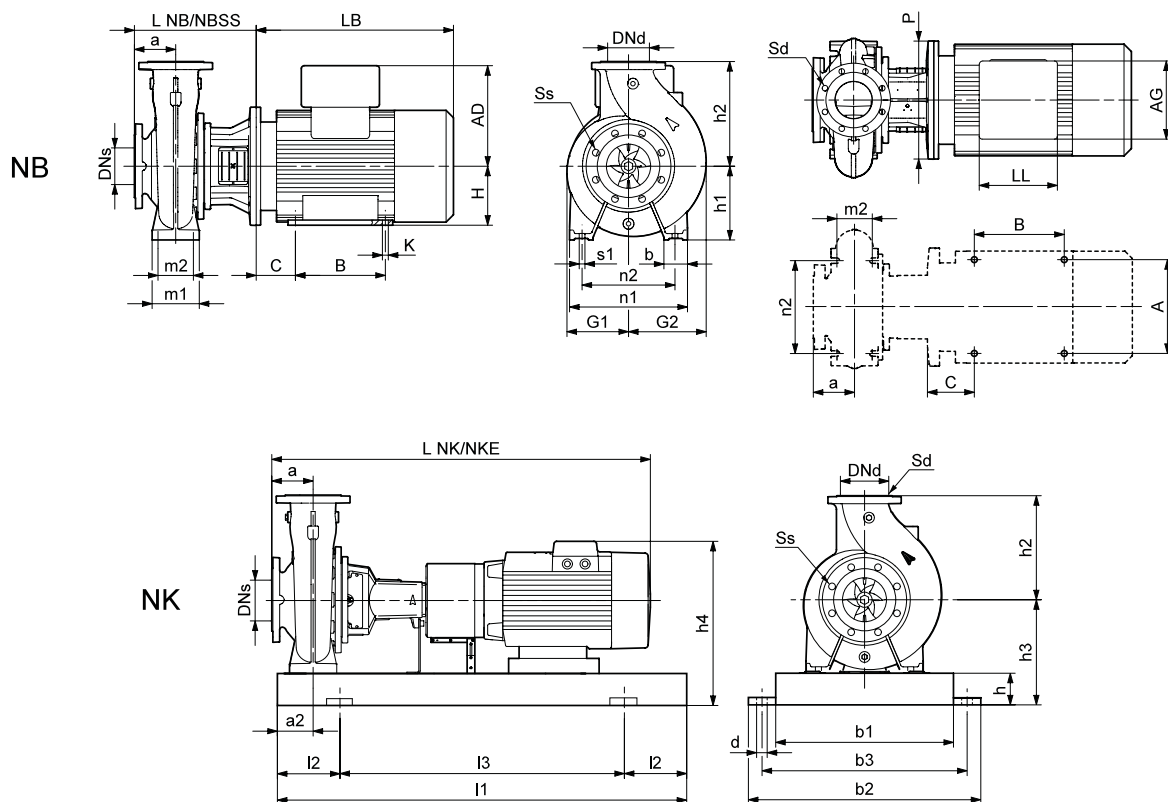
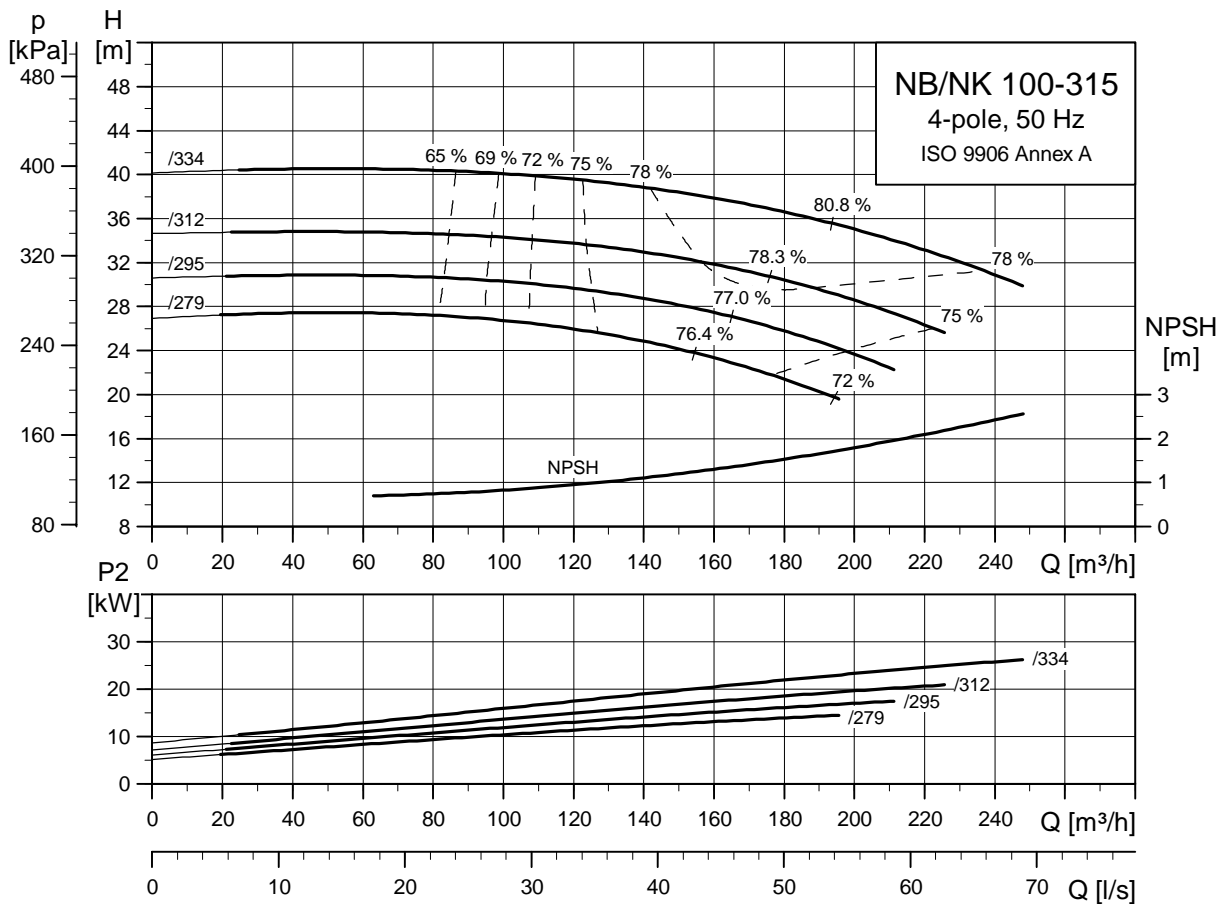
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NBE 100-250/215 viene con un motor MMGE 132M con patas; NKE 100-250/215 viene con un motor MMGE 160M.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-315
4 polos



TM03 5147 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 100-315/279 | 100-315/295 | 100-315/312 | 100-315/334 | |
|----------------------------------------|--------------------|--------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160L | Siemens 180M | Siemens 180L | Siemens 200L | |
| | Motor eléctrico | MMGE 160L | MMGE 180M | MMGE 180L | - | |
| Datos generales NB/NK | P ₂ | [kW] | 15 | 18.5 | 22 | 30 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 315 | 315 | 315 | 315 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1242/1378 | 1326/1462 | 1326/1462 | 1383/1519 |
| | L NKE | [mm] | 1223/1359 | 1223/1359 | 1294/1430 | -/- |
| | Peso NK | [kg] | 365/360 | 389/381 | 409/401 | 518/512 |
| | Peso NKE | [kg] | 408/403 | 446/438 | 480/472 | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1400 | 1400 | 1400 | 1600 |
| | l ₂ | [mm] | 230 | 230 | 230 | 270 |
| | l ₃ | [mm] | 940 | 940 | 940 | 1060 |
| | b ₁ | [mm] | 480 | 480 | 480 | 530 |
| | b ₂ | [mm] | 610 | 610 | 610 | 660 |
| | b ₃ | [mm] | 560 | 560 | 560 | 600 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 350 | 350 | 350 | 355 |
| h ₄ ¹⁾ | [mm] | 547/727 | 608/749 | 608/749 | 660/- | |
| Número de bancada | | 7 | 7 | 7 | 8 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 413 | 413 | 413 | 413 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 208 | 208 | 208 | 208 |
| | G ₂ | [mm] | 264 | 264 | 264 | 264 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | 160 | 180 | 180 | 200 |
| | LB ¹⁾ | [mm] | 518/499 | 602/499 | 602/570 | 659/- |
| | AD ¹⁾ | [mm] | 197/377 | 258/399 | 258/399 | 305/- |
| | AG ¹⁾ | [mm] | 165/296 | 152/328 | 152/328 | 260/- |
| | LL ¹⁾ | [mm] | 165/410 | 132/456 | 132/456 | 192/- |
| | P | [mm] | 350 | 350 | 350 | 400 |
| | C | [mm] | 108 | 121 | 121 | 133 |
| | B | [mm] | 254 | 241 | 279 | 305 |
| A | [mm] | 254 | 279 | 279 | 318 | |
| K | [mm] | 15 | 15 | 15 | 19 | |
| Peso NB ¹⁾ | [kg] | 234/277 | 253/310 | 273/344 | 334/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

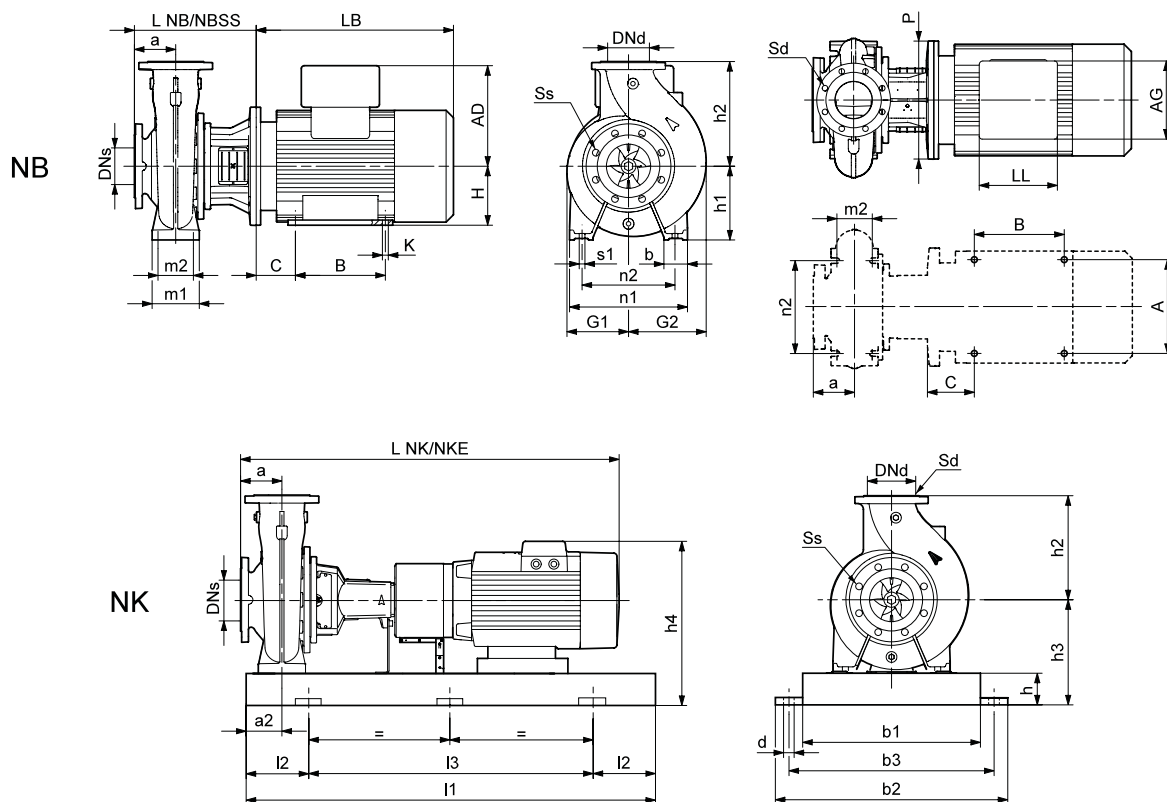
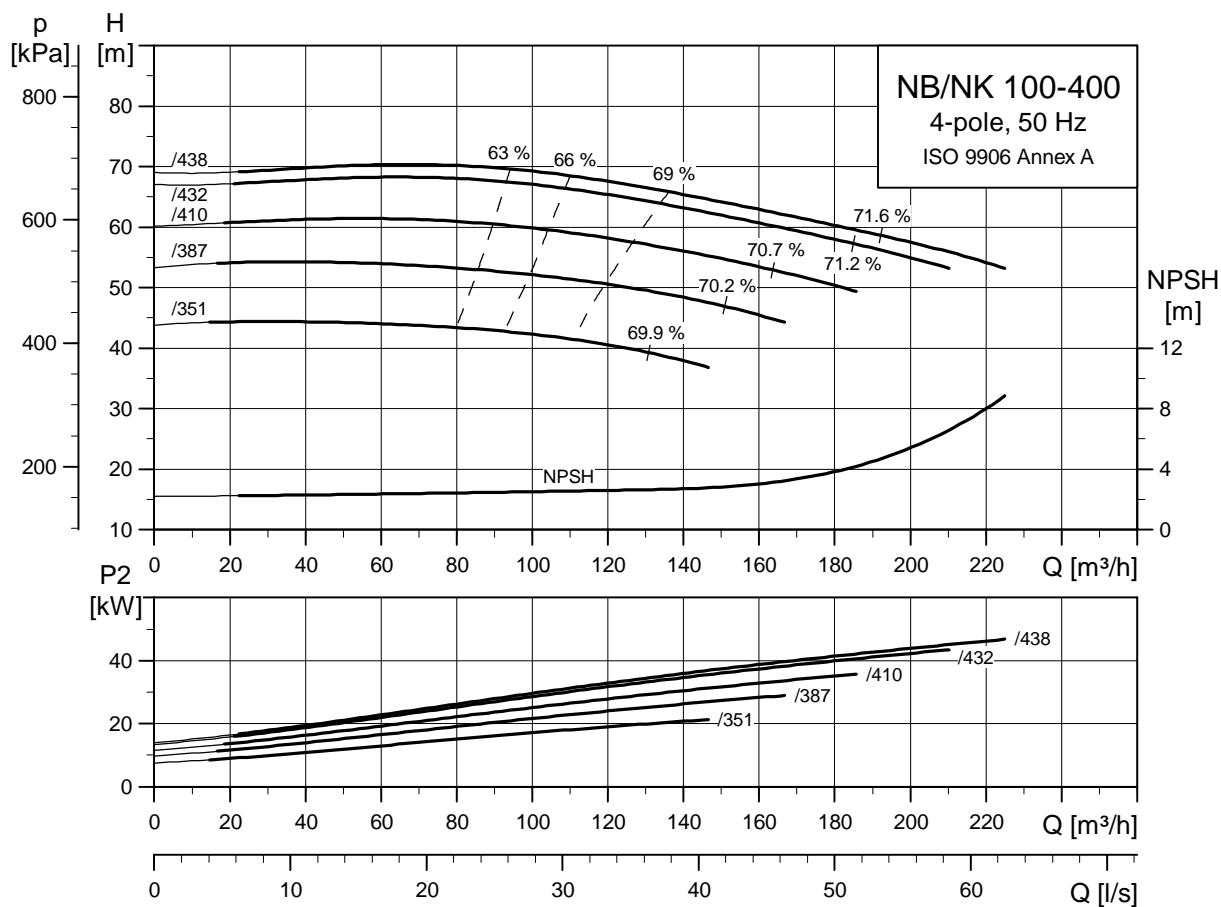
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-400
4 polos



TM03 5148 4106

TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 100-400/351 | 100-400/387 | 100-400/410 | 100-400/432 | 100-400/438 | |
|----------------------------------------|--------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 180L | Siemens 200L | Siemens 225S | Siemens 225M | Siemens 250M | |
| | Motor eléctrico | MMGE 180L | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 22 | 30 | 37 | 45 | 55 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 | 100 |
| | a | [mm] | 140 | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 355 | 355 | 355 | 355 | 355 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1386/1522 | 1443/1579 | 1463/1599 | 1523/1659 | 1631/1767 |
| | L NKE | [mm] | 1354/1490 | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 571/563 | 625/620 | 741/736 | 781/776 | 905/904 |
| | Peso NKE | [kg] | 642/634 | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1800 | 1800 | 1800 | 1800 | 1800 |
| | l ₂ | [mm] | 300 | 300 | 300 | 300 | 300 |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1200 | 1200 |
| | b ₁ | [mm] | 600 | 600 | 600 | 600 | 600 |
| | b ₂ | [mm] | 730 | 730 | 730 | 730 | 730 |
| | b ₃ | [mm] | 670 | 670 | 670 | 670 | 670 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 |
| | h | [mm] | 100 | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 383 | 380 | 380 | 380 | 380 |
| h ₄ ¹⁾ | [mm] | 641/782 | 685/- | 705/- | 705/- | 772/- | |
| Número de bancada | | 9 | 9 | 9 | 9 | 9 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 411 | 411 | 441 | 441 | 441 |
| | L NB SS | [mm] | - | - | - | - | - |
| | h ₁ | [mm] | 280 | 280 | 280 | 280 | 280 |
| | G ₁ | [mm] | 272 | 272 | 272 | 272 | 272 |
| | G ₂ | [mm] | 298 | 298 | 298 | 298 | 298 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 500 | 500 | 500 | 500 | 500 |
| | n ₂ | [mm] | 400 | 400 | 400 | 400 | 400 |
| | b | [mm] | 100 | 100 | 100 | 100 | 100 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 |
| | H | [mm] | 180 | 200 | 225 | 225 | 250 |
| | LB ¹⁾ | [mm] | 602/570 | 659/- | 649/- | 709/- | 817/- |
| | AD ¹⁾ | [mm] | 258/399 | 305/- | 325/- | 325/- | 392/- |
| | AG ¹⁾ | [mm] | 152/328 | 260/- | 260/- | 260/- | 300/- |
| | LL ¹⁾ | [mm] | 132/456 | 192/- | 192/- | 192/- | 236/- |
| | P | [mm] | 350 | 400 | 450 | 450 | 550 |
| | C | [mm] | 121 | 133 | 149 | 149 | 168 |
| | B | [mm] | 279 | 305 | 286 | 286 | 349 |
| A | [mm] | 279 | 318 | 356 | 356 | 406 | |
| K | [mm] | 15 | 19 | 19 | 19 | 24 | |
| Peso NB ¹⁾ | [kg] | 359/430 | 418/- | 519/- | 559/- | 702/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

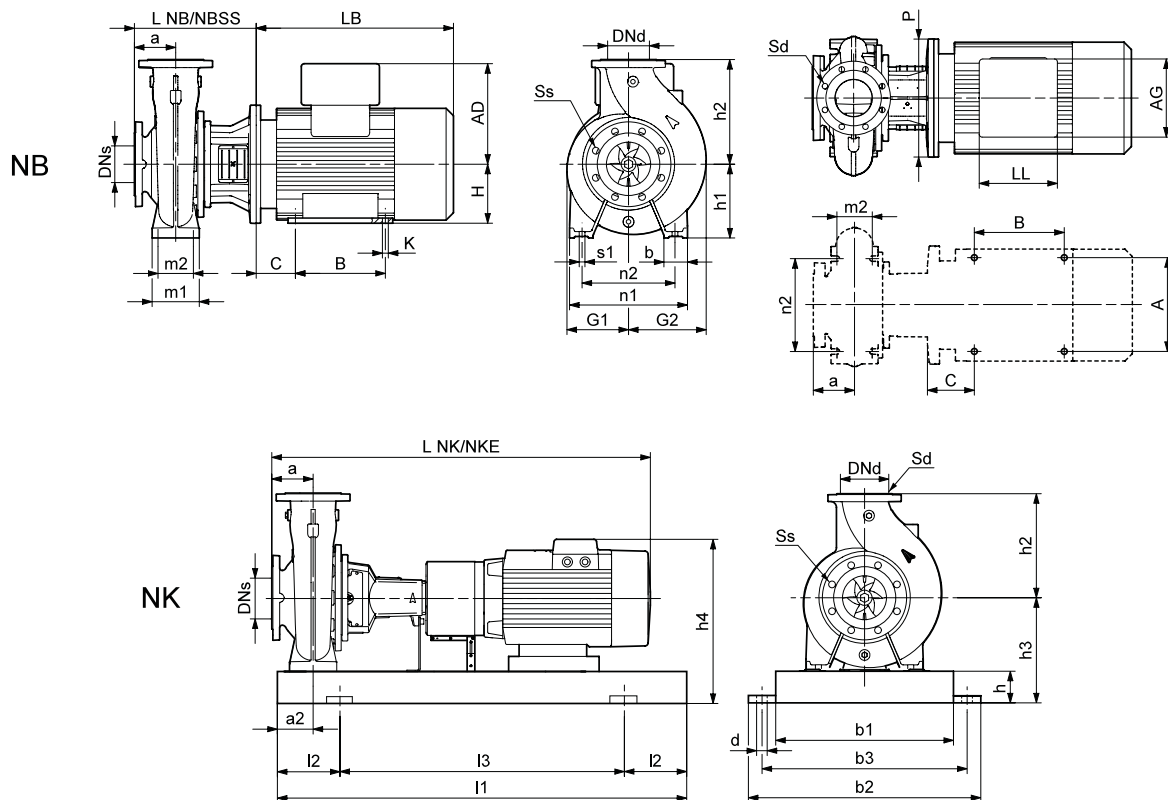
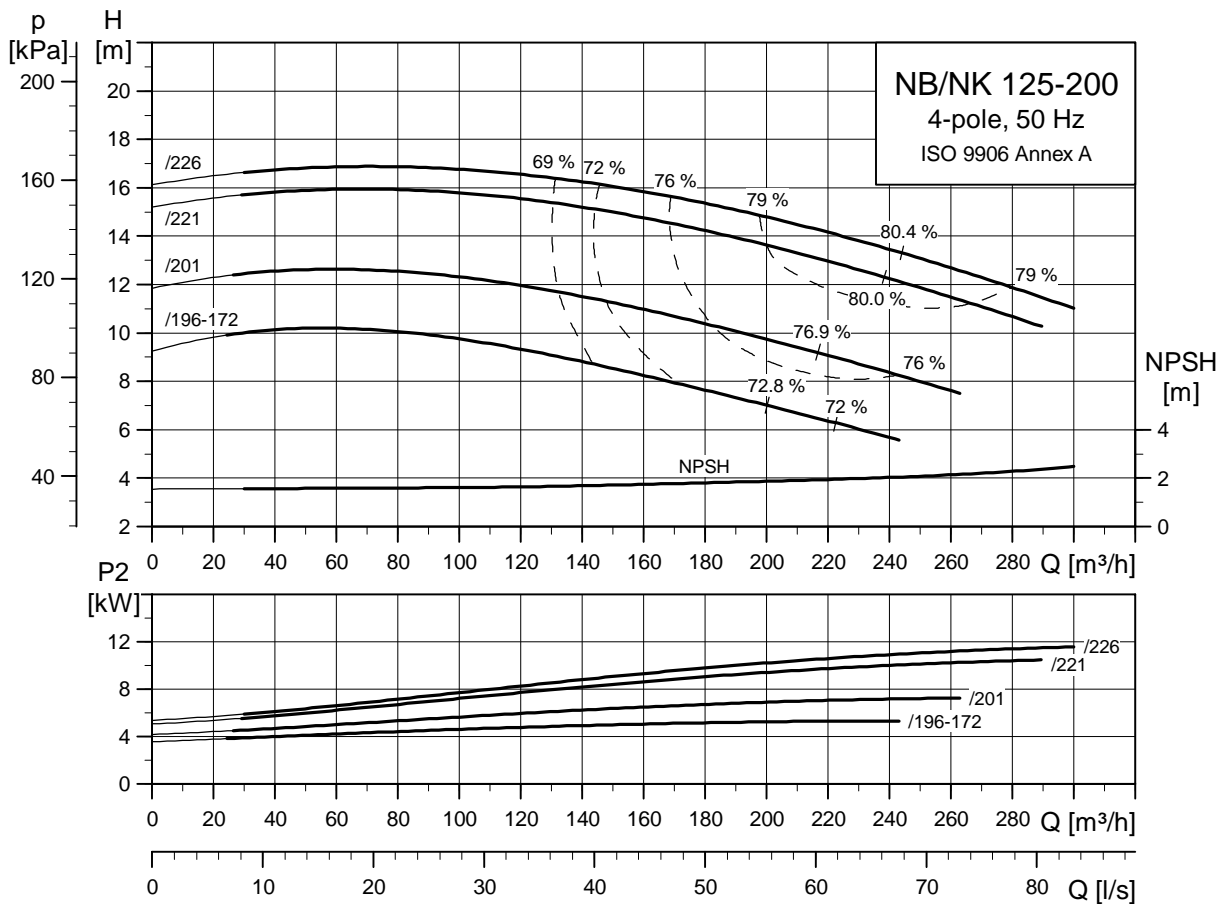
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-200
4 polos



TM03 5149 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 125-200/196-172 | 125-200/201 | 125-200/221 | 125-200/226 | |
|----------------------------------------|------------------------------|-----------------|-------------------------|--------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 132S | Siemens 132M | Siemens 160M | Siemens 160L | |
| | Motor eléctrico | MGE 132SC | MMGE 132M ³⁾ | MMGE 160M | MMGE 160L | |
| Datos generales NB/NK | P ₂ | [kW] | 5.5 | 7.5 | 11 | 15 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 315 | 315 | 315 | 315 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1067/1203 | 1105/1241 | 1202/1338 | 1242/1378 |
| | L NKE | [mm] | 1085/1221 | 1173/1309 | 1173/1309 | 1223/1359 |
| | Peso NK | [kg] | 293/290 | 308/305 | 333/328 | 359/354 |
| | Peso NKE | [kg] | 303/300 | 353/348 | 384/379 | 402/397 |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1400 | 1400 | 1400 | 1400 |
| | l ₂ | [mm] | 230 | 230 | 230 | 230 |
| | l ₃ | [mm] | 940 | 940 | 940 | 940 |
| | b ₁ | [mm] | 480 | 480 | 480 | 480 |
| | b ₂ | [mm] | 610 | 610 | 610 | 610 |
| | b ₃ | [mm] | 560 | 560 | 560 | 560 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 350 | 350 | 350 | 350 |
| | h ₄ ¹⁾ | [mm] | 517/538 | 517/709 | 547/709 | 547/727 |
| Número de bancada | | 7 | 7 | 7 | 7 | |
| Datos NB | Diseño | | A | A | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 383 | 383 | 413 | 413 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 183 | 183 | 183 | 183 |
| | G ₂ | [mm] | 234 | 234 | 234 | 234 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | - | 132 | 160 | 160 |
| | LB ¹⁾ | [mm] | 373/391 | 411/449 | 478/449 | 518/499 |
| | AD ¹⁾ | [mm] | 167/188 | 167/333 | 197/359 | 197/377 |
| | AG ¹⁾ | [mm] | 140/290 | 140/246 | 165/296 | 165/296 |
| | LL ¹⁾ | [mm] | 140/300 | 140/410 | 165/410 | 165/410 |
| | P | [mm] | 300 | 300 | 350 | 350 |
| | C | [mm] | - | 89 | 108 | 108 |
| | B | [mm] | - | 178 | 210 | 254 |
| | A | [mm] | - | 216 | 254 | 254 |
| | K | [mm] | - | 12 | 15 | 15 |
| | Peso NB ¹⁾ | [kg] | 161/172 | 176/217 | 202/253 | 228/271 |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

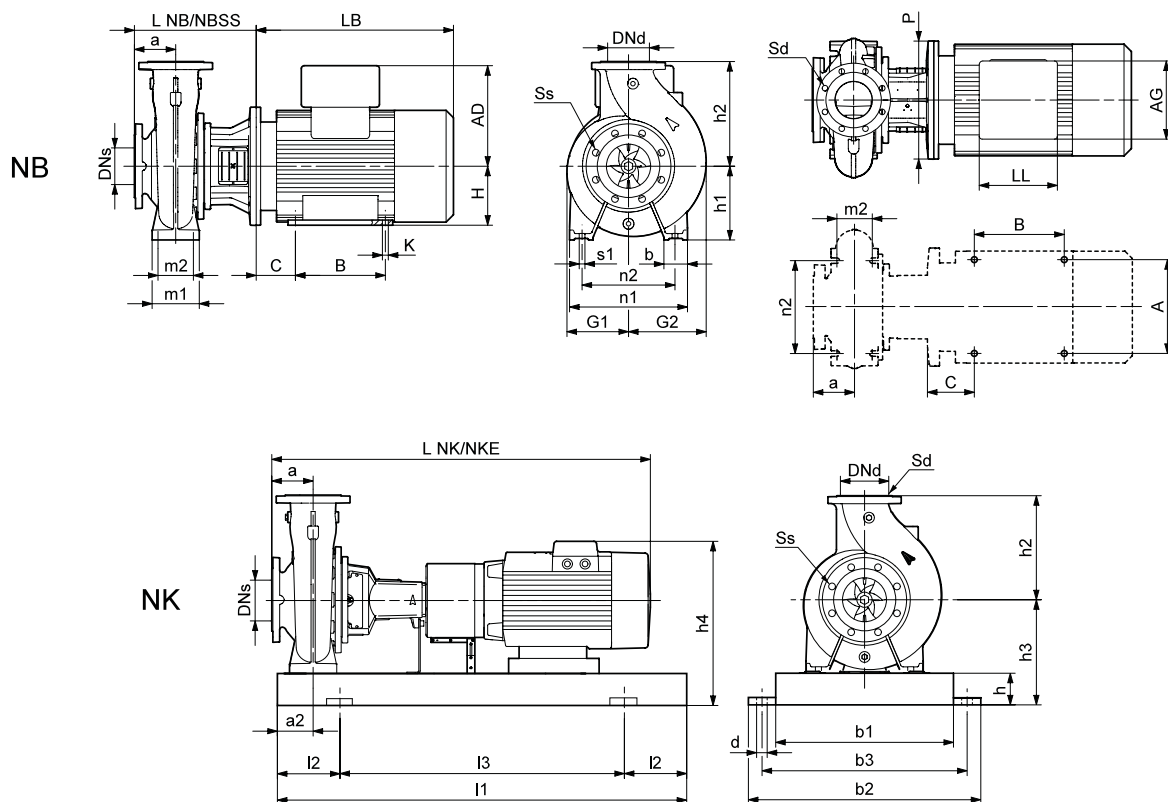
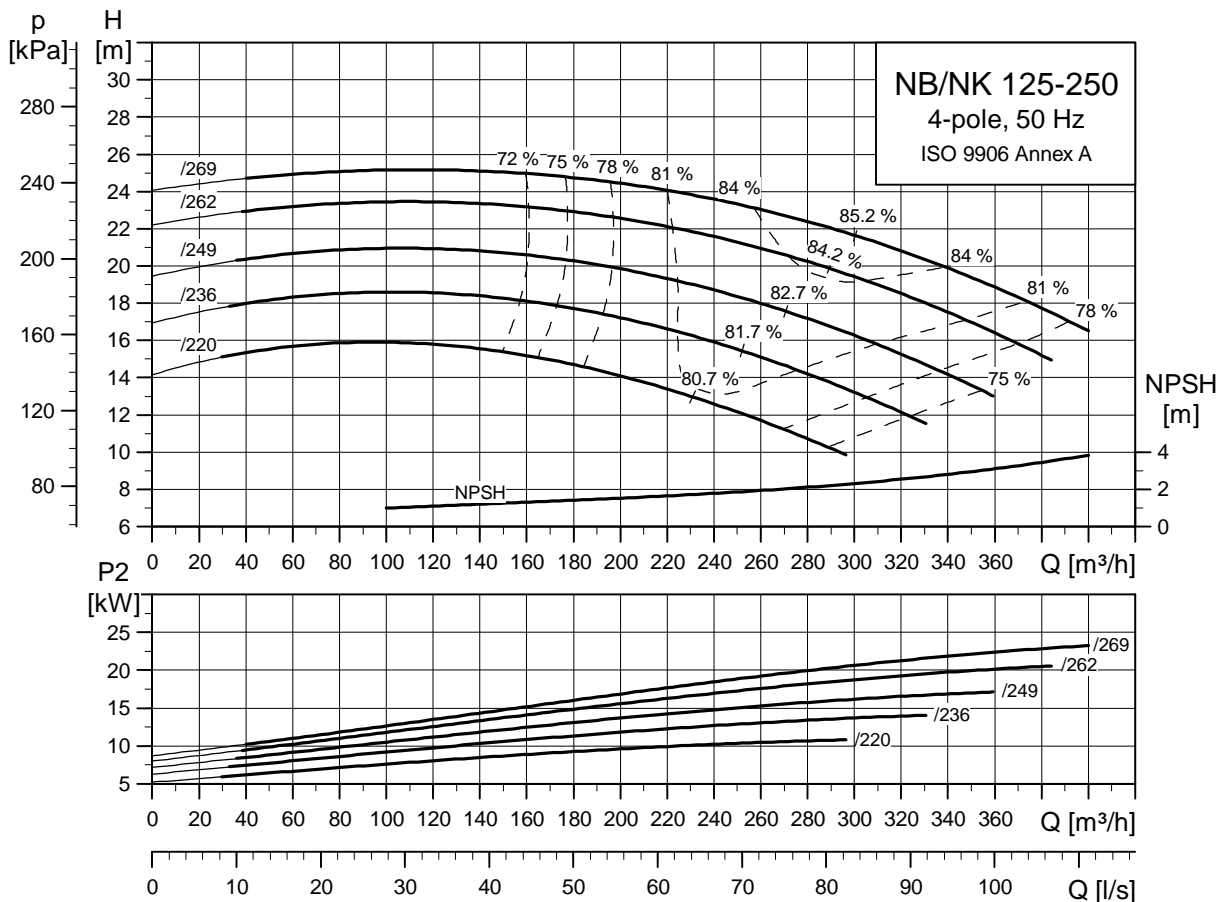
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NBE 125-200/201 viene con un motor MMGE 132M con patas; NKE 125-200/201 viene con un motor MMGE 160M.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-250
4 polos



TM03 5150 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 125-250/220 | 125-250/236 | 125-250/249 | 125-250/262 | 125-250/269 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160M | Siemens 160L | Siemens 180M | Siemens 180L | Siemens 200L | |
| | Motor eléctrico | MMGE 160M | MMGE 160L | MMGE 180M | MMGE 180L | - | |
| Datos generales NB/NK | P ₂ | [kW] | 11 | 15 | 18.5 | 22 | 30 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 | 125 |
| | a | [mm] | 140 | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 355 | 355 | 355 | 355 | 355 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1202/1338 | 1242/1378 | 1326/1462 | 1326/1462 | 1383/1519 |
| | L NKE | [mm] | 1173/1309 | 1223/1359 | 1223/1359 | 1294/1430 | -/- |
| | Peso NK | [kg] | 342/337 | 368/363 | 392/384 | 412/404 | 521/515 |
| | Peso NKE | [kg] | 393/388 | 411/406 | 449/441 | 483/475 | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 1400 | 1400 | 1400 | 1400 | 1600 |
| | l ₂ | [mm] | 230 | 230 | 230 | 230 | 270 |
| | l ₃ | [mm] | 940 | 940 | 940 | 940 | 1060 |
| | b ₁ | [mm] | 480 | 480 | 480 | 480 | 530 |
| | b ₂ | [mm] | 610 | 610 | 610 | 610 | 660 |
| | b ₃ | [mm] | 560 | 560 | 560 | 560 | 600 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 350 | 350 | 350 | 350 | 355 |
| | h ₄ ¹⁾ | [mm] | 547/709 | 547/727 | 608/749 | 608/749 | 660/- |
| Número de bancada | | 7 | 7 | 7 | 7 | 8 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 413 | 413 | 413 | 413 | 413 |
| | L NB SS | [mm] | - | - | - | - | - |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 208 | 208 | 208 | 208 | 208 |
| | G ₂ | [mm] | 264 | 264 | 264 | 264 | 264 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 | M16 |
| | H | [mm] | 160 | 160 | 180 | 180 | 200 |
| | LB ¹⁾ | [mm] | 478/449 | 518/499 | 602/499 | 602/570 | 659/- |
| | AD ¹⁾ | [mm] | 197/359 | 197/377 | 258/399 | 258/399 | 305/- |
| | AG ¹⁾ | [mm] | 165/296 | 165/296 | 152/328 | 152/328 | 260/- |
| | LL ¹⁾ | [mm] | 165/410 | 165/410 | 132/456 | 132/456 | 192/- |
| | P | [mm] | 350 | 350 | 350 | 350 | 400 |
| | C | [mm] | 108 | 108 | 121 | 121 | 133 |
| | B | [mm] | 210 | 254 | 241 | 279 | 305 |
| | A | [mm] | 254 | 254 | 279 | 279 | 318 |
| | K | [mm] | 15 | 15 | 15 | 15 | 19 |
| | Peso NB ¹⁾ | [kg] | 211/262 | 237/280 | 257/314 | 277/348 | 338/- |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

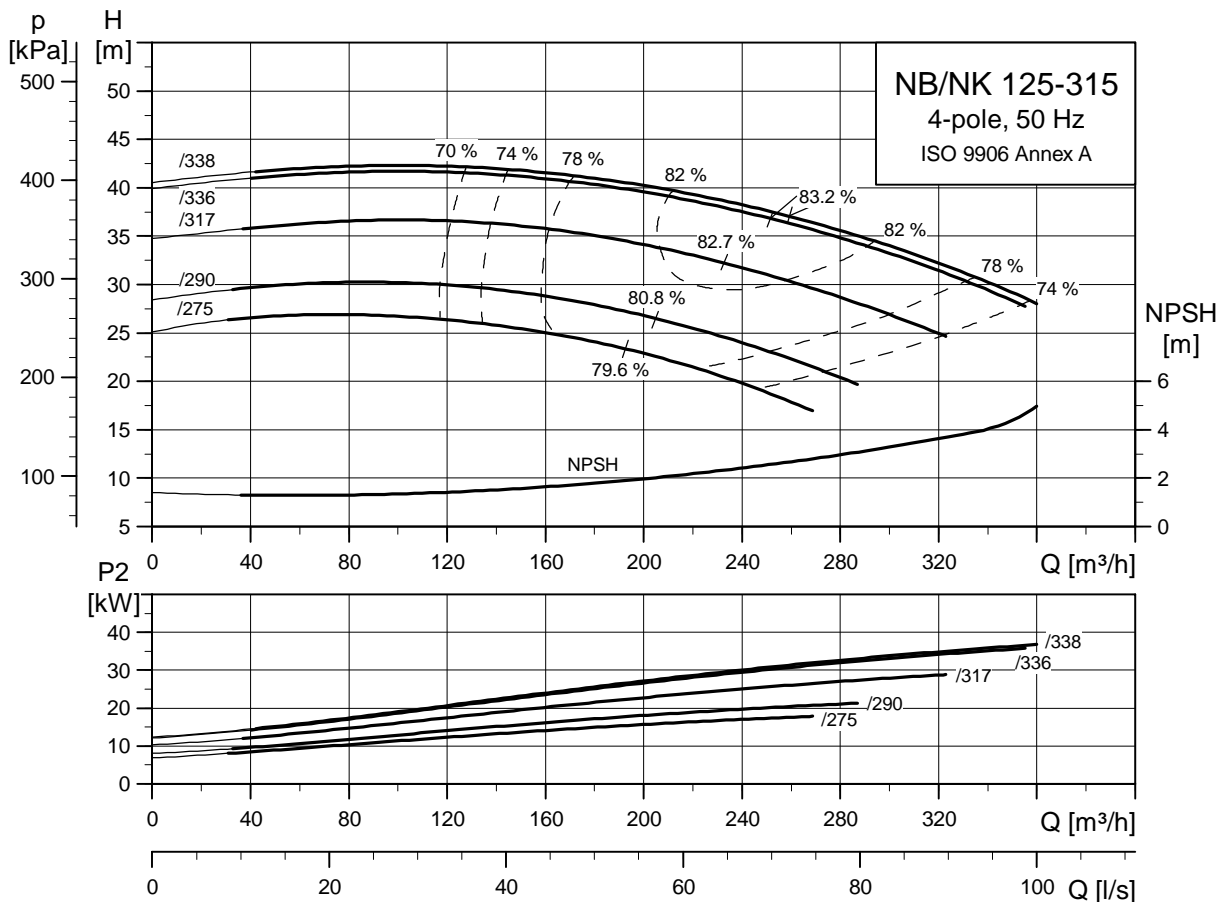
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

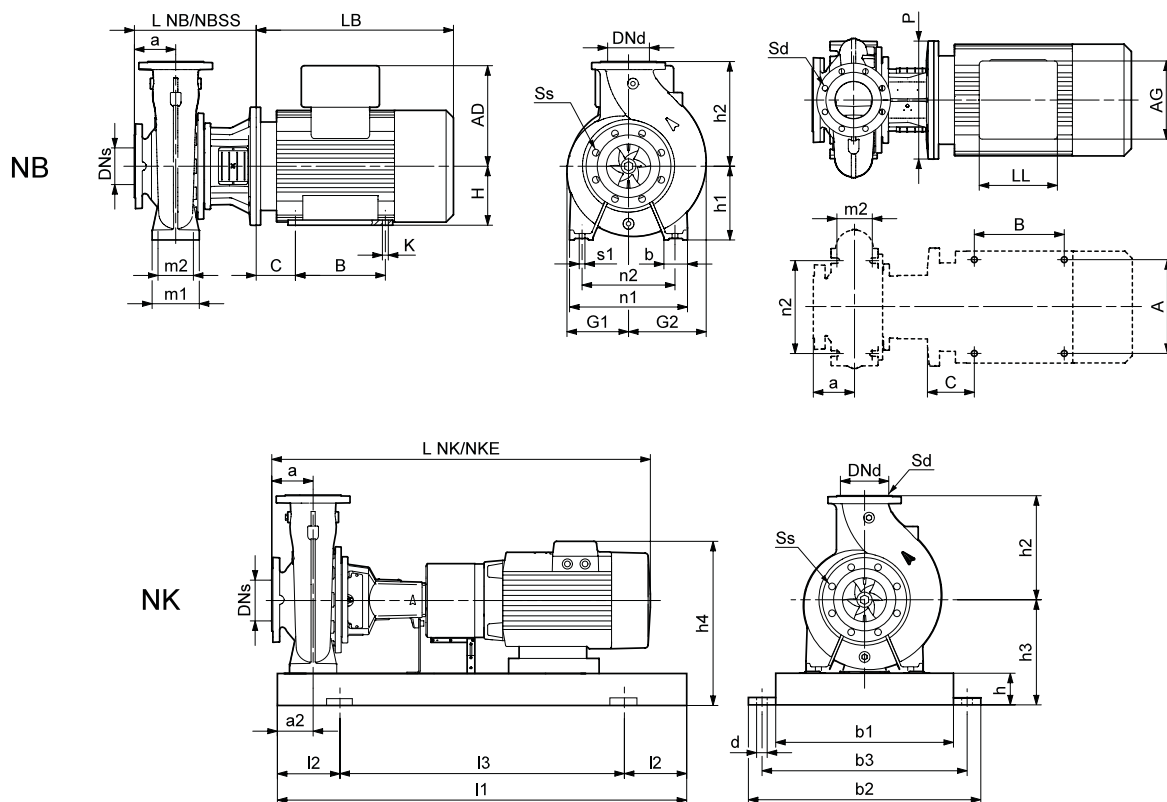
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-315
4 polos



TM03 5151 4106



TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 125-315/275 | 125-315/290 | 125-315/317 | 125-315/336 | 125-315/338 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 180M | Siemens 180L | Siemens 200L | Siemens 225S | Siemens 225M | |
| | Motor eléctrico | MMGE 180M | MMGE 180L | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 18.5 | 22 | 30 | 37 | 45 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 | 125 |
| | a | [mm] | 140 | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 355 | 355 | 355 | 355 | 355 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1386/1522 | 1386/1522 | 1443/1579 | 1463/1599 | 1523/1659 |
| | L NKE | [mm] | 1283/1419 | 1354/1490 | -/- | -/- | -/- |
| | Peso NK | [kg] | 511/503 | 531/523 | 585/580 | 701/696 | 741/736 |
| | Peso NKE | [kg] | 568/560 | 602/594 | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1800 | 1800 | 1800 | 1800 | 1800 |
| | l ₂ | [mm] | 300 | 300 | 300 | 300 | 300 |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1200 | 1200 |
| | b ₁ | [mm] | 600 | 600 | 600 | 600 | 600 |
| | b ₂ | [mm] | 730 | 730 | 730 | 730 | 730 |
| | b ₃ | [mm] | 670 | 670 | 670 | 670 | 670 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 |
| | h | [mm] | 100 | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 383 | 383 | 380 | 380 | 380 |
| | h ₄ ¹⁾ | [mm] | 641/782 | 641/782 | 685/- | 705/- | 705/- |
| Número de bancada | | 9 | 9 | 9 | 9 | 9 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 411 | 411 | 411 | 441 | 441 |
| | L NB SS | [mm] | - | - | - | - | - |
| | h ₁ | [mm] | 280 | 280 | 280 | 280 | 280 |
| | G ₁ | [mm] | 231 | 231 | 231 | 231 | 231 |
| | G ₂ | [mm] | 268 | 268 | 268 | 268 | 268 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 500 | 500 | 500 | 500 | 500 |
| | n ₂ | [mm] | 400 | 400 | 400 | 400 | 400 |
| | b | [mm] | 100 | 100 | 100 | 100 | 100 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 |
| | H | [mm] | 180 | 180 | 200 | 225 | 225 |
| | LB ¹⁾ | [mm] | 602/499 | 602/570 | 659/- | 649/- | 709/- |
| | AD ¹⁾ | [mm] | 258/399 | 258/399 | 305/- | 325/- | 325/- |
| | AG ¹⁾ | [mm] | 152/328 | 152/328 | 260/- | 260/- | 260/- |
| | LL ¹⁾ | [mm] | 132/456 | 132/456 | 192/- | 192/- | 192/- |
| | P | [mm] | 350 | 350 | 400 | 450 | 450 |
| | C | [mm] | 121 | 121 | 133 | 149 | 149 |
| | B | [mm] | 241 | 279 | 305 | 286 | 286 |
| A | [mm] | 279 | 279 | 318 | 356 | 356 | |
| K | [mm] | 15 | 15 | 19 | 19 | 19 | |
| Peso NB ¹⁾ | [kg] | 299/356 | 319/390 | 378/- | 479/- | 519/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

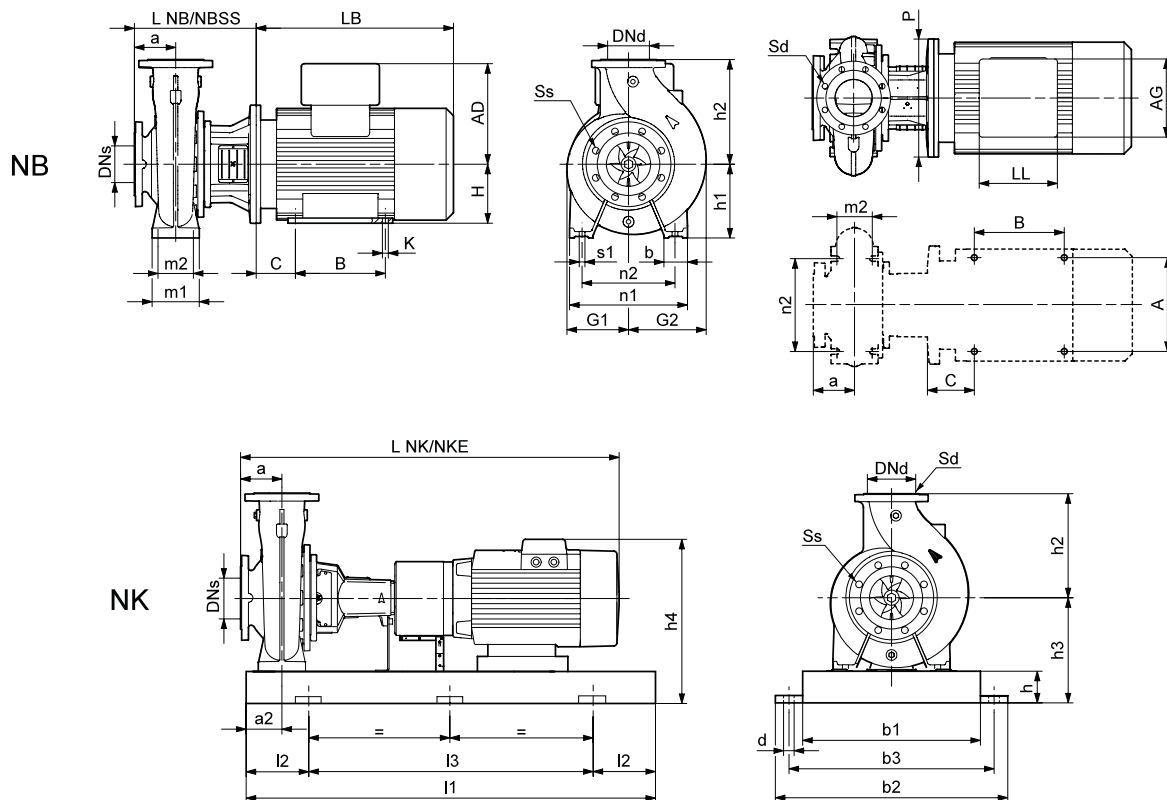
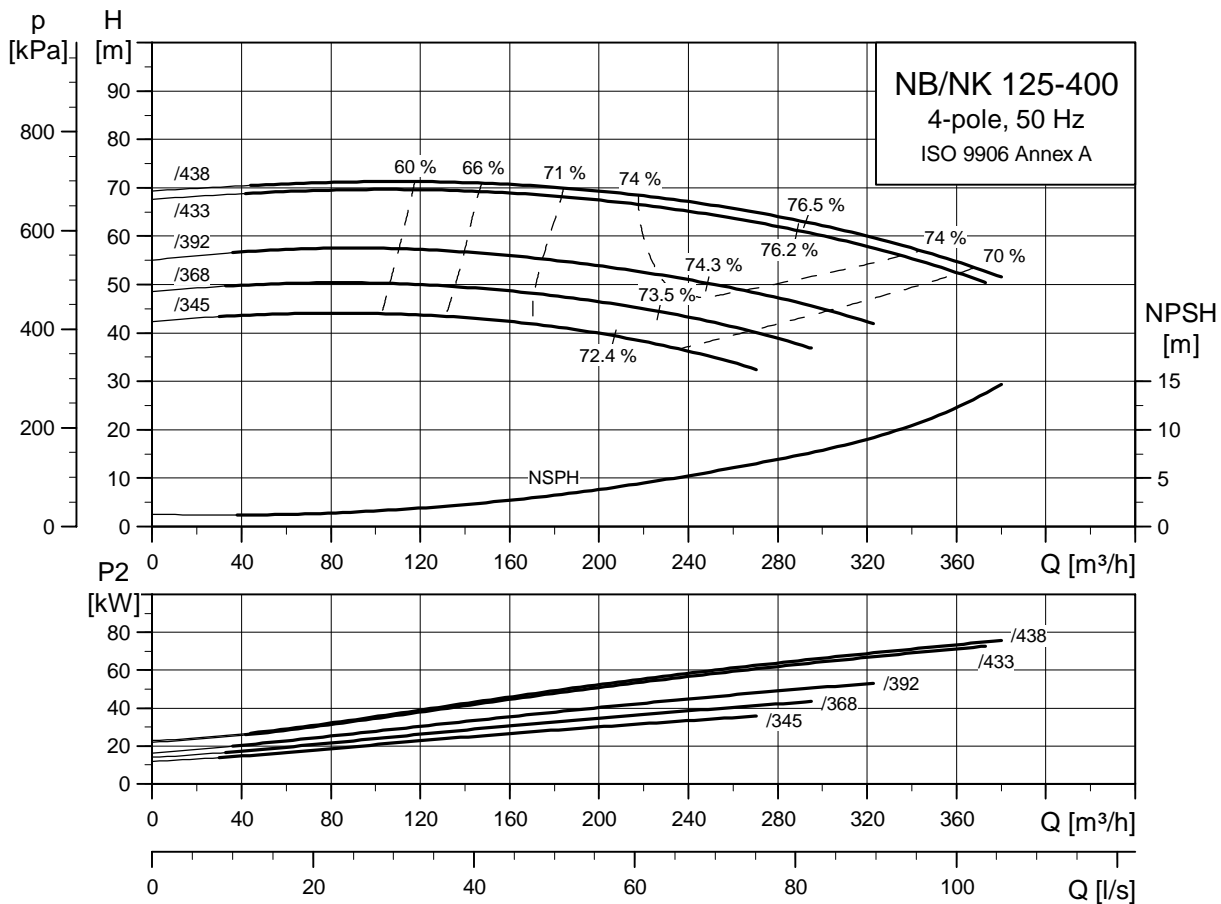
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-400
4 polos



TM03 5152 4106

TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 125-400/345 | 125-400/368 | 125-400/392 | 125-400/433 | 125-400/438 | | |
|----------------------------------------|------------------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
| Tipo de motor | Motor de gama alta | Siemens 225S | Siemens 225M | Siemens 250M | Siemens 280S | Siemens 280M | | |
| | Motor eléctrico | - | - | - | - | - | | |
| Datos generales NB/NK | P ₂ | [kW] | 37 | 45 | 55 | 75 | 90 | |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 | |
| | DNs | [mm] | 150 | 150 | 150 | 150 | 150 | |
| | DNd | [mm] | 125 | 125 | 125 | 125 | 125 | |
| | a | [mm] | 140 | 140 | 140 | 140 | 140 | |
| | h ₂ | [mm] | 400 | 400 | 400 | 400 | 400 | |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 | | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1463/1599 | 1523/1659 | 1631/1767 | 1634/1770 | 1744/1880 | |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- | |
| | Peso NK | [kg] | 729/724 | 769/764 | 913/912 | 1198/1192 | 1302/1295 | |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- | |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- | |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | | |
| Datos NK | l ₁ | [mm] | 1800 | 1800 | 1800 | 2000 | 2000 | |
| | l ₂ | [mm] | 300 | 300 | 300 | 330 | 330 | |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1340 | 1340 | |
| | b ₁ | [mm] | 600 | 600 | 600 | 750 | 750 | |
| | b ₂ | [mm] | 730 | 730 | 730 | 890 | 890 | |
| | b ₃ | [mm] | 670 | 670 | 670 | 830 | 830 | |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 | |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 | |
| | h | [mm] | 100 | 100 | 100 | 130 | 130 | |
| | h ₃ | [mm] | 415 | 415 | 415 | 445 | 445 | |
| | h ₄ ¹⁾ | [mm] | 740/- | 740/- | 807/- | 877/- | 877/- | |
| | Número de bancada | | 9 | 9 | 9 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 441 | 441 | 441 | 441 | 441 | |
| | L NB SS | [mm] | - | - | - | - | - | |
| | h ₁ | [mm] | 315 | 315 | 315 | 315 | 315 | |
| | G ₁ | [mm] | 284 | 284 | 284 | 284 | 284 | |
| | G ₂ | [mm] | 320 | 320 | 320 | 320 | 320 | |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 | |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | |
| | n ₁ | [mm] | 500 | 500 | 500 | 500 | 500 | |
| | n ₂ | [mm] | 400 | 400 | 400 | 400 | 400 | |
| | b | [mm] | 100 | 100 | 100 | 100 | 100 | |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 | |
| | H | [mm] | 225 | 225 | 250 | 280 | 280 | |
| | | LB ¹⁾ | [mm] | 649/- | 709/- | 817/- | 820/- | 930/- |
| | | AD ¹⁾ | [mm] | 325/- | 325/- | 392/- | 432/- | 432/- |
| | | AG ¹⁾ | [mm] | 260/- | 260/- | 300/- | 300/- | 300/- |
| | | LL ¹⁾ | [mm] | 192/- | 192/- | 236/- | 236/- | 236/- |
| | | P | [mm] | 450 | 450 | 550 | 550 | 550 |
| | | C | [mm] | 149 | 149 | 168 | 190 | 190 |
| | | B | [mm] | 286 | 286 | 349 | 368 | 419 |
| | A | [mm] | 356 | 356 | 406 | 457 | 457 | |
| | K | [mm] | 19 | 19 | 24 | 24 | 24 | |
| | Peso NB ¹⁾ | [kg] | 531/- | 571/- | 713/- | 828/- | 928/- | |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

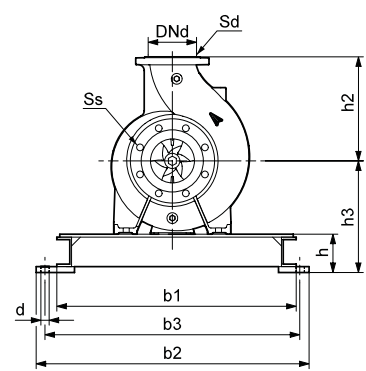
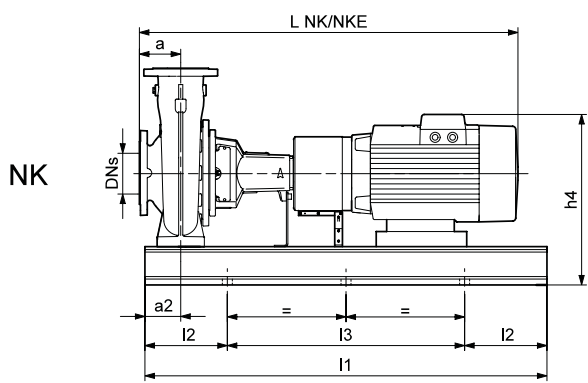
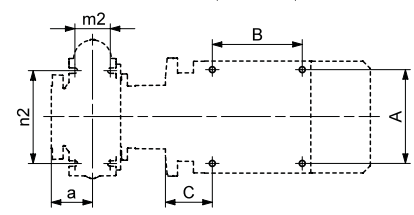
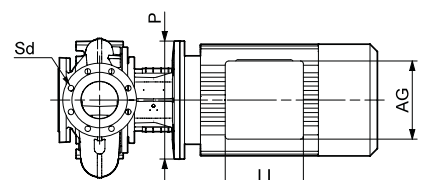
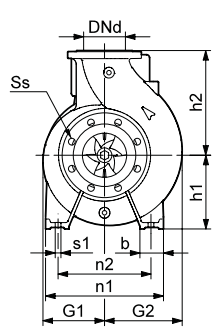
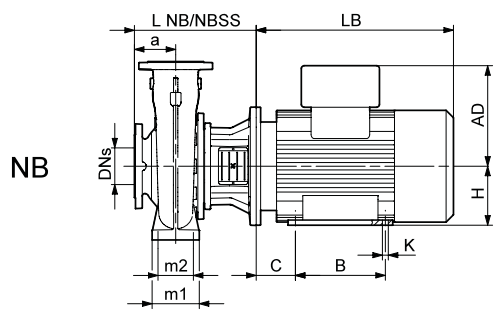
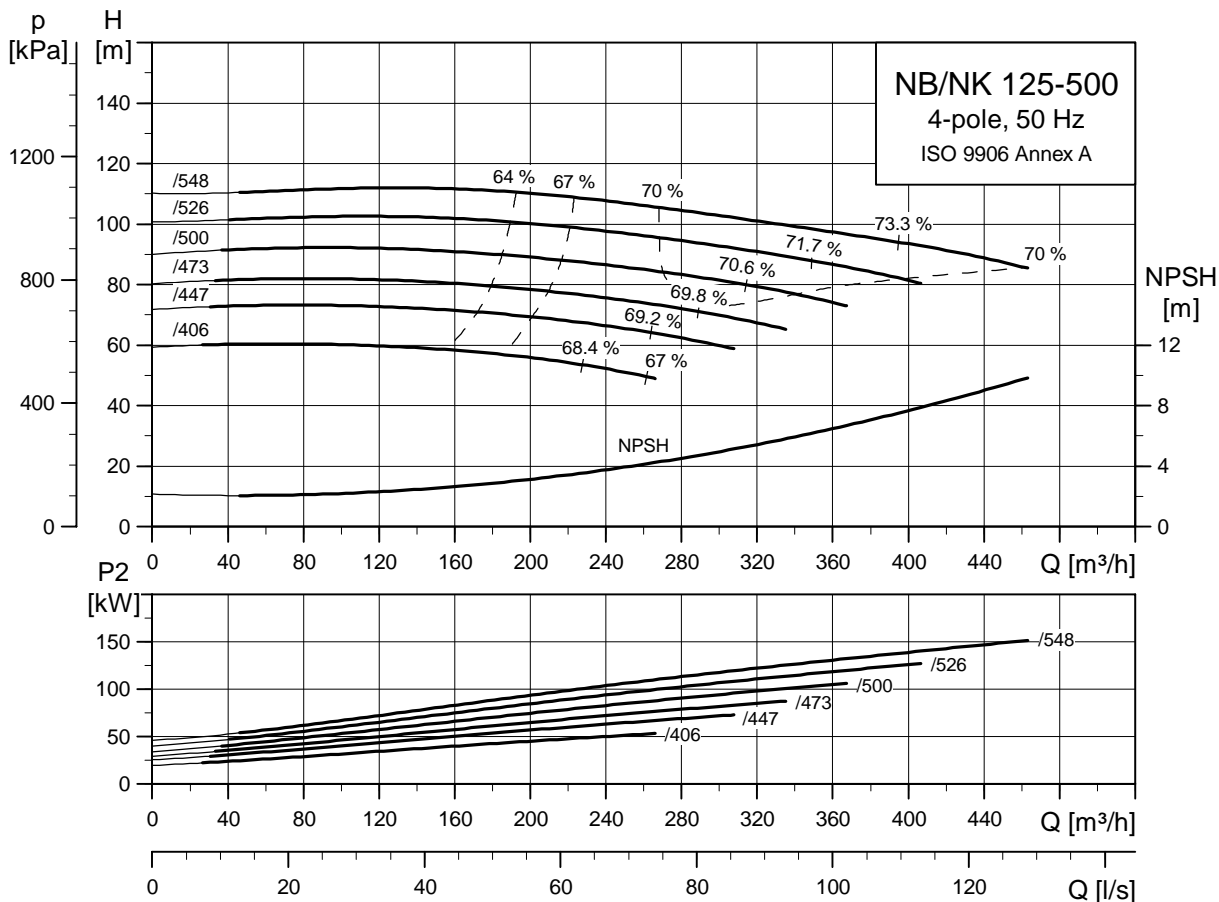
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-500
4 polos



TM03 5153 4106

TM03 4182 1806

TM03 4051 1806

| Tipo de bomba | | 125-500/406 | 125-500/447 | 125-500/473 | 125-500/500 | 125-500/526 | 125-500/548 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 250M | Siemens 280S | Siemens 280M | Siemens 315S | Siemens 315MA | Siemens 315MB | |
| | Motor eléctrico | - | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 55 | 75 | 90 | 110 | 132 | 160 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 | 125 | 125 |
| | a | [mm] | 180 | 180 | 180 | 180 | 180 | 180 |
| | h ₂ | [mm] | 500 | 500 | 500 | 500 | 500 | 500 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| | Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1811/1987 | 1814/1990 | 1924/2100 | 1956/2132 | 2116/2292 | 2116/2292 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 1366/1363 | 1477/1473 | 1581/1577 | 1715/1711 | 1874/1870 | 2010/2006 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 330 | 330 | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 750 | 750 | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 890 | 890 | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 830 | 830 | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 | 110 |
| | h | [mm] | 130 | 130 | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 530 | 530 | 530 | 530 | 530 | 530 |
| | h ₄ ¹⁾ | [mm] | 922/- | 962/- | 962/- | 1025/- | 1025/- | 1025/- |
| Número de bancada | | 10 | 10 | 10 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 524 | 524 | 524 | 554 | 554 | 554 |
| | L NB SS | [mm] | - | - | - | - | - | - |
| | h ₁ | [mm] | 400 | 400 | 400 | 400 | 400 | 400 |
| | G ₁ | [mm] | 344 | 344 | 344 | 344 | 344 | 344 |
| | G ₂ | [mm] | 377 | 377 | 377 | 377 | 377 | 377 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 625 | 625 | 625 | 625 | 625 | 625 |
| | n ₂ | [mm] | 500 | 500 | 500 | 500 | 500 | 500 |
| | b | [mm] | 125 | 125 | 125 | 125 | 125 | 125 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 | M20 |
| | H | [mm] | 250 | 280 | 280 | 315 | 315 | 315 |
| | LB ¹⁾ | [mm] | 817/- | 820/- | 930/- | 932/- | 1092/- | 1092/- |
| | AD ¹⁾ | [mm] | 392/- | 432/- | 432/- | 495/- | 495/- | 495/- |
| | AG ¹⁾ | [mm] | 300/- | 300/- | 300/- | 379/- | 379/- | 379/- |
| | LL ¹⁾ | [mm] | 236/- | 236/- | 236/- | 307/- | 307/- | 307/- |
| | P | [mm] | 550 | 550 | 550 | 660 | 660 | 660 |
| | C | [mm] | 168 | 190 | 190 | 216 | 216 | 216 |
| | B | [mm] | 349 | 368 | 419 | 406 | 457 | 508 |
| | A | [mm] | 406 | 457 | 457 | 508 | 508 | 508 |
| K | [mm] | 24 | 24 | 24 | 28 | 28 | 28 | |
| Peso NB ¹⁾ | [kg] | 927/- | 1042/- | 1142/- | 1319/- | 1474/- | 1614/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | -/- | |

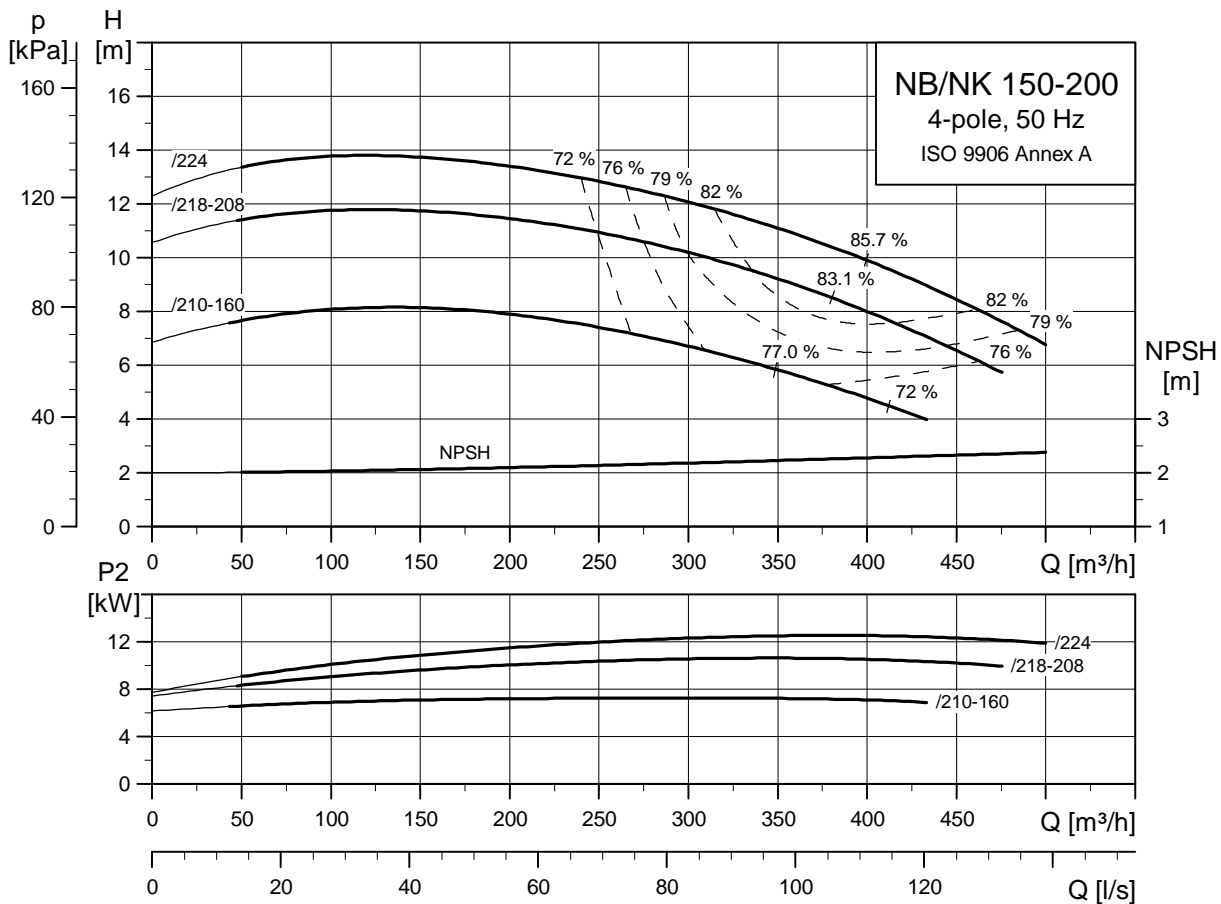
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

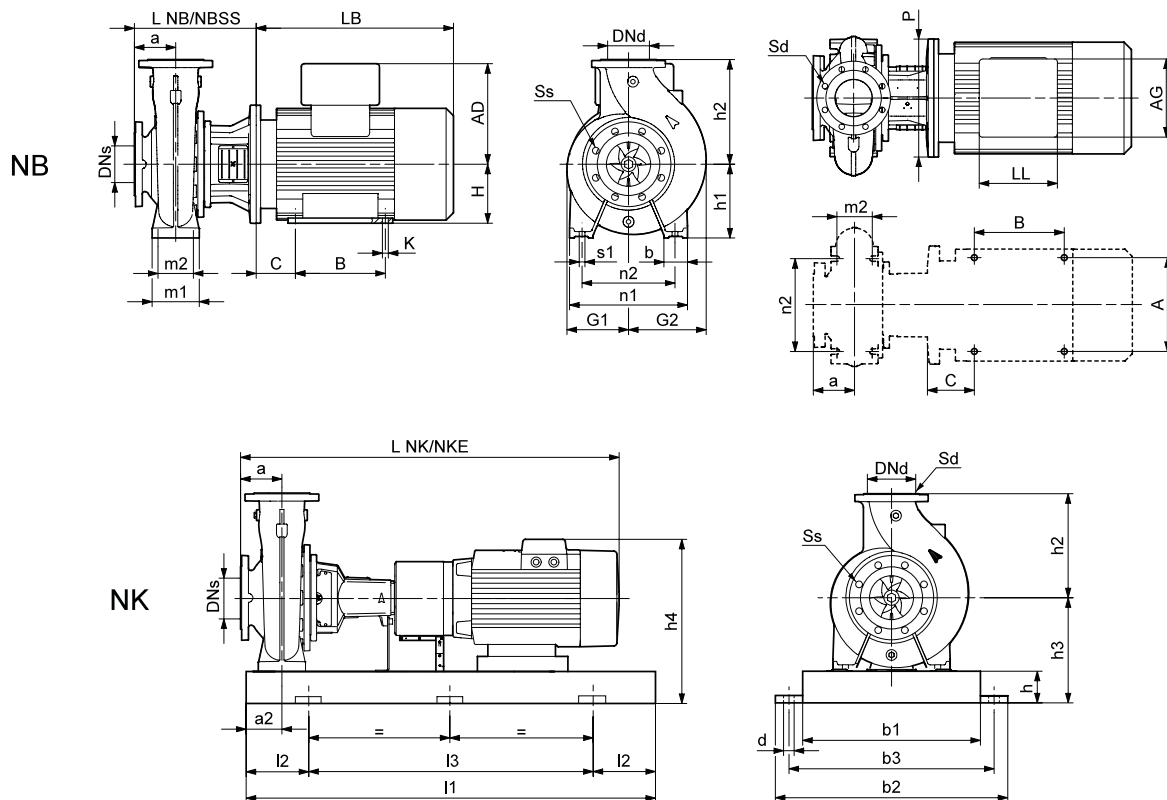
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-200
4 polos



TM03 5154 4106



TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 150-200/210-160 | 150-200/218-208 | 150-200/224 | |
|-----------------------------------------|------------------------------|-------------------------|-------------------|-----------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 132M | Siemens 160M | Siemens 160L | |
| | Motor eléctrico | MMGE 132M ³⁾ | MMGE 160M | MMGE 160L | |
| Datos generales NB/NK | P ₂ | [kW] | 7.5 | 11 | 15 |
| | PN | [bar] | 10 | 10 | 10 |
| | DNs | [mm] | 200 | 200 | 200 |
| | DNd | [mm] | 150 | 150 | 150 |
| | a | [mm] | 160 | 160 | 160 |
| | h ₂ | [mm] | 400 | 400 | 400 |
| | Ss | | 8x23 | 8x23 | 8x23 |
| Datos generales NK estándar/ espaciador | Sd | | 8x23 | 8x23 | |
| | L NK | [mm] | 1125/1261 | 1222/1358 | 1262/1398 |
| | L NKE | [mm] | 1193/1329 | 1193/1329 | 1243/1379 |
| | Peso NK | [kg] | 434/431 | 450/445 | 476/471 |
| | Peso NKE | [kg] | 470/465 | 501/496 | 519/514 |
| Datos NK | Peso NK SS | [kg] | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- |
| | l ₁ | [mm] | 1800 | 1800 | 1800 |
| | l ₂ | [mm] | 300 | 300 | 300 |
| | l ₃ | [mm] | 1200 | 1200 | 1200 |
| | b ₁ | [mm] | 600 | 600 | 600 |
| | b ₂ | [mm] | 730 | 730 | 730 |
| | b ₃ | [mm] | 670 | 670 | 670 |
| | d | [mm] | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 |
| | h | [mm] | 100 | 100 | 100 |
| | h ₃ | [mm] | 385 ⁴⁾ | 380 | 380 |
| | h ₄ ¹⁾ | [mm] | 552/744 | 577/739 | 577/757 |
| Número de bancada | | 9 | 9 | 9 | |
| Datos NB | Diseño | | A | C ²⁾ | |
| | L NB | [mm] | 403 | 433 | |
| | L NB SS | [mm] | - | - | |
| | h ₁ | [mm] | 280 | 280 | |
| | G ₁ | [mm] | 230 | 230 | |
| | G ₂ | [mm] | 319 | 319 | |
| | m ₁ | [mm] | 200 | 200 | |
| | m ₂ | [mm] | 150 | 150 | |
| | n ₁ | [mm] | 550 | 550 | |
| | n ₂ | [mm] | 450 | 450 | |
| | b | [mm] | 100 | 100 | |
| | s ₁ | [mm] | M20 | M20 | |
| | H | [mm] | 132 | 160 | |
| | LB ¹⁾ | [mm] | 411/449 | 478/449 | |
| | AD ¹⁾ | [mm] | 167/333 | 197/359 | |
| | AG ¹⁾ | [mm] | 140/246 | 165/296 | |
| | LL ¹⁾ | [mm] | 140/410 | 165/410 | |
| | P | [mm] | 300 | 350 | |
| | C | [mm] | 89 | 108 | |
| | B | [mm] | 178 | 210 | |
| | A | [mm] | 216 | 254 | |
| | K | [mm] | 12 | 15 | |
| | Peso NB ¹⁾ | [kg] | 230/271 | 257/308 | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

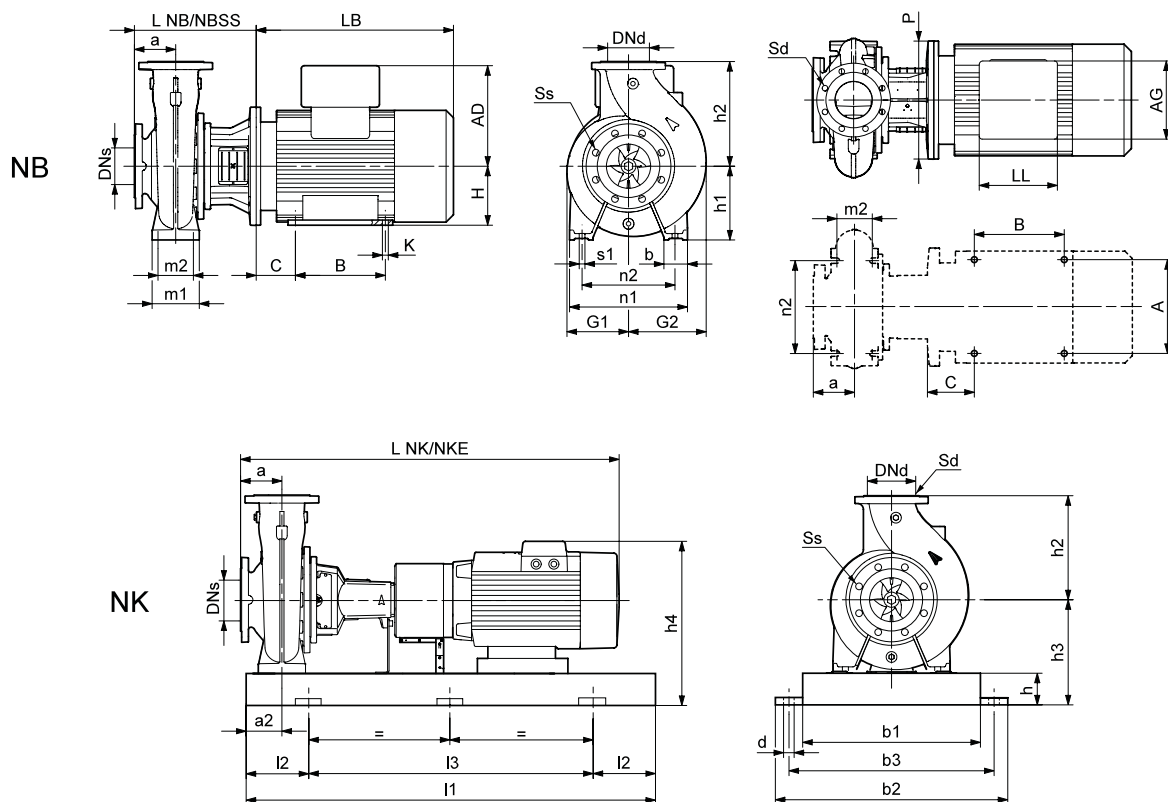
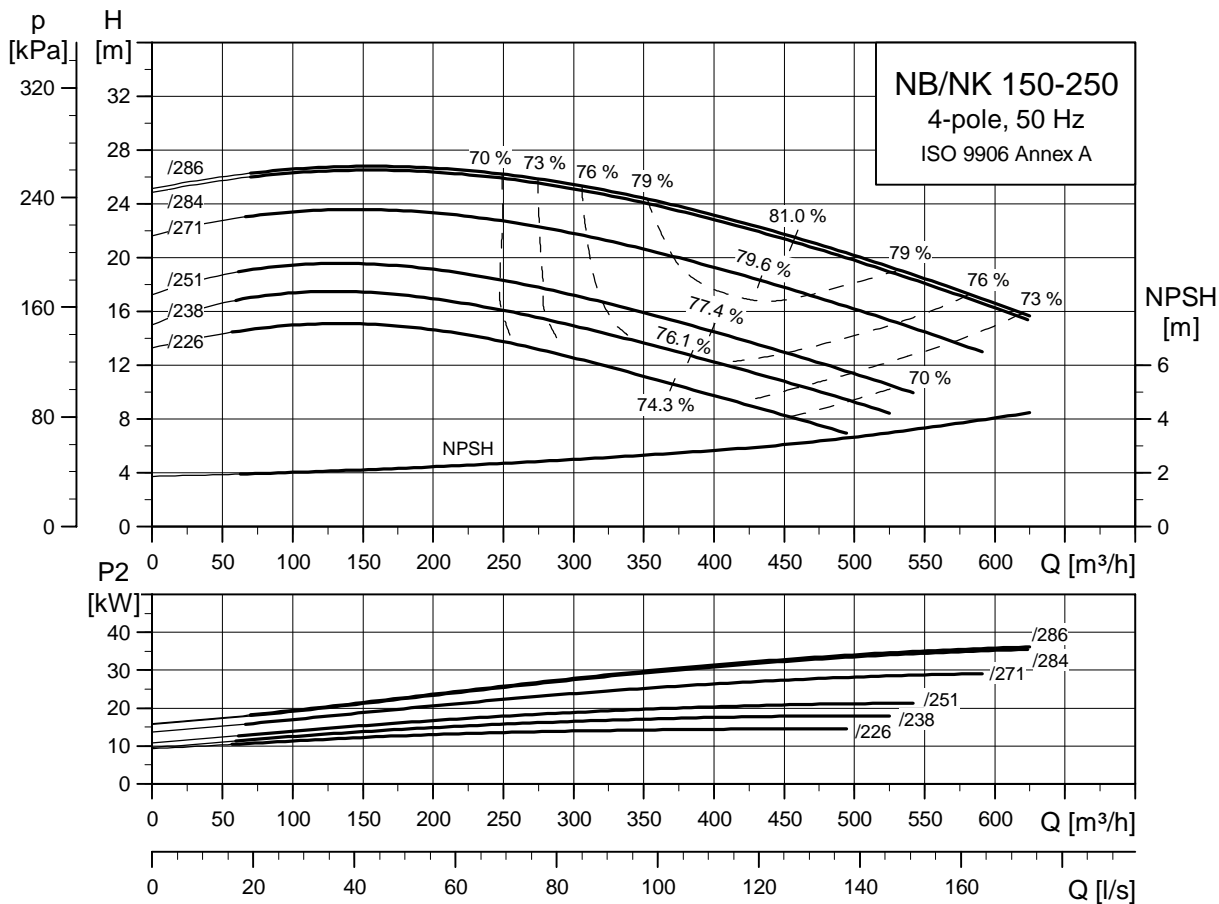
3) NBE 150-200/210-160 viene con un motor MMGE 132M con patas; NKE 150-200/210-160 viene con un motor MMGE 160M.

4) La dimensión h₃ de la NKE 150-200/210-160 es 380 mm.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-250
4 polos



TM03 5155 4106

TM03 4182 1806

TM03 4179 1806

Datos técnicos

NB, NK 150-250
4 polos

| Tipo de bomba | | 150-250/226 | 150-250/238 | 150-250/251 | 150-250/271 | 150-250/284 | 150-250/286 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 160L | Siemens 180M | Siemens 180L | Siemens 200L | Siemens 225S | Siemens 225M | |
| | Motor eléctrico | MMGE 160L | MMGE 180M | MMGE 180L | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 15 | 18.5 | 22 | 30 | 37 | 45 |
| | PN | [bar] | 10 | 10 | 10 | 10 | 10 | 10 |
| | DNs | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| | DNd | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| | a | [mm] | 160 | 160 | 160 | 160 | 160 | 160 |
| | h ₂ | [mm] | 375 | 375 | 375 | 375 | 375 | 375 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1322/1458 | 1406/1542 | 1406/1542 | 1463/1599 | 1483/1619 | 1543/1679 |
| | L NKE | [mm] | 1303/1439 | 1303/1439 | 1374/1510 | -/- | -/- | -/- |
| | Peso NK | [kg] | 485/480 | 509/501 | 529/521 | 584/578 | 699/695 | 739/735 |
| | Peso NKE | [kg] | 528/523 | 566/558 | 600/592 | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 |
| | l ₂ | [mm] | 300 | 300 | 300 | 300 | 300 | 300 |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| | b ₁ | [mm] | 600 | 600 | 600 | 600 | 600 | 600 |
| | b ₂ | [mm] | 730 | 730 | 730 | 730 | 730 | 730 |
| | b ₃ | [mm] | 670 | 670 | 670 | 670 | 670 | 670 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 | 110 |
| | h | [mm] | 100 | 100 | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 380 | 383 | 383 | 380 | 380 | 380 |
| | h ₄ ¹⁾ | [mm] | 577/757 | 641/782 | 641/782 | 685/- | 705/- | 705/- |
| Número de bancada | | 9 | 9 | 9 | 9 | 9 | 9 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 431 | 431 | 431 | 431 | 461 | 461 |
| | L NB SS | [mm] | - | - | - | - | - | - |
| | h ₁ | [mm] | 280 | 280 | 280 | 280 | 280 | 280 |
| | G ₁ | [mm] | 223 | 223 | 223 | 223 | 223 | 223 |
| | G ₂ | [mm] | 287 | 287 | 287 | 287 | 287 | 287 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 500 | 500 | 500 | 500 | 500 | 500 |
| | n ₂ | [mm] | 400 | 400 | 400 | 400 | 400 | 400 |
| | b | [mm] | 100 | 100 | 100 | 100 | 100 | 100 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 | M20 |
| | H | [mm] | 160 | 180 | 180 | 200 | 225 | 225 |
| | LB ¹⁾ | [mm] | 518/499 | 602/499 | 602/570 | 659/- | 649/- | 709/- |
| | AD ¹⁾ | [mm] | 197/377 | 258/399 | 258/399 | 305/- | 325/- | 325/- |
| | AG ¹⁾ | [mm] | 165/296 | 152/328 | 152/328 | 260/- | 260/- | 260/- |
| | LL ¹⁾ | [mm] | 165/410 | 132/456 | 132/456 | 192/- | 192/- | 192/- |
| | P | [mm] | 350 | 350 | 350 | 400 | 450 | 450 |
| | C | [mm] | 108 | 121 | 121 | 133 | 149 | 149 |
| | B | [mm] | 254 | 241 | 279 | 305 | 286 | 286 |
| A | [mm] | 254 | 279 | 279 | 318 | 356 | 356 | |
| K | [mm] | 15 | 15 | 15 | 19 | 19 | 19 | |
| Peso NB ¹⁾ | [kg] | 279/322 | 297/354 | 317/388 | 376/- | 478/- | 518/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | -/- | |

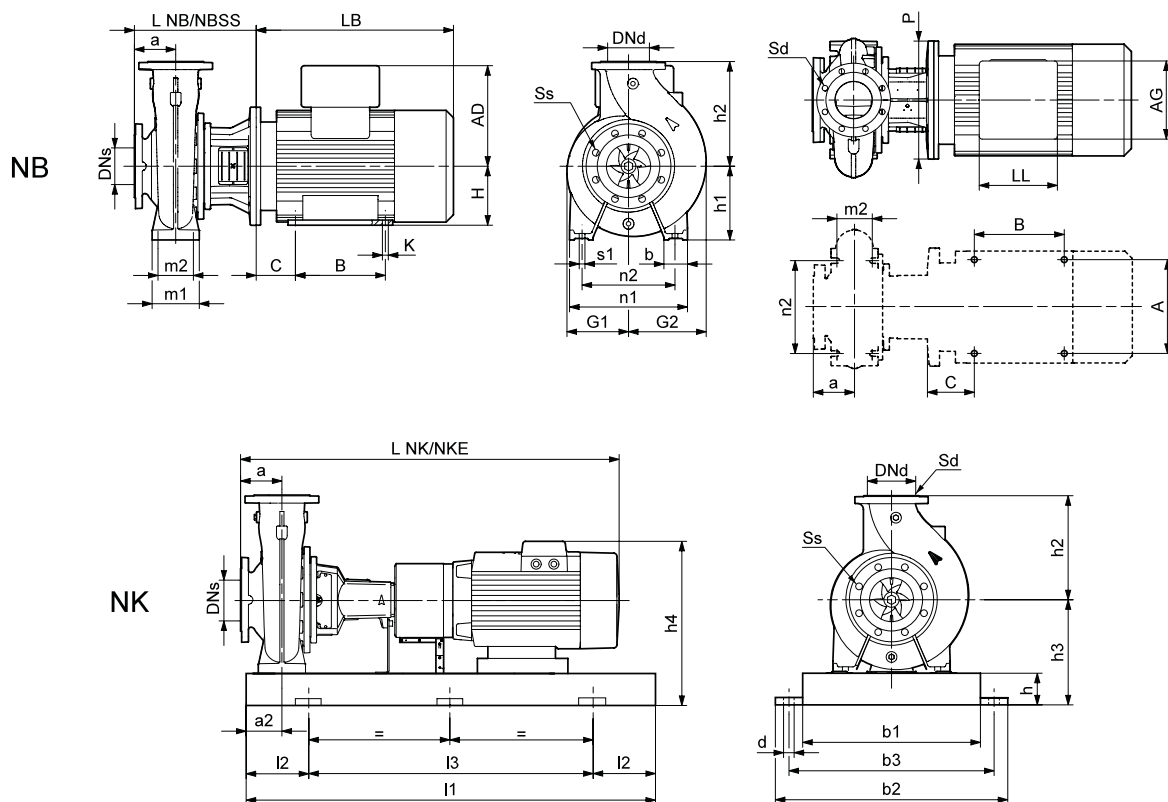
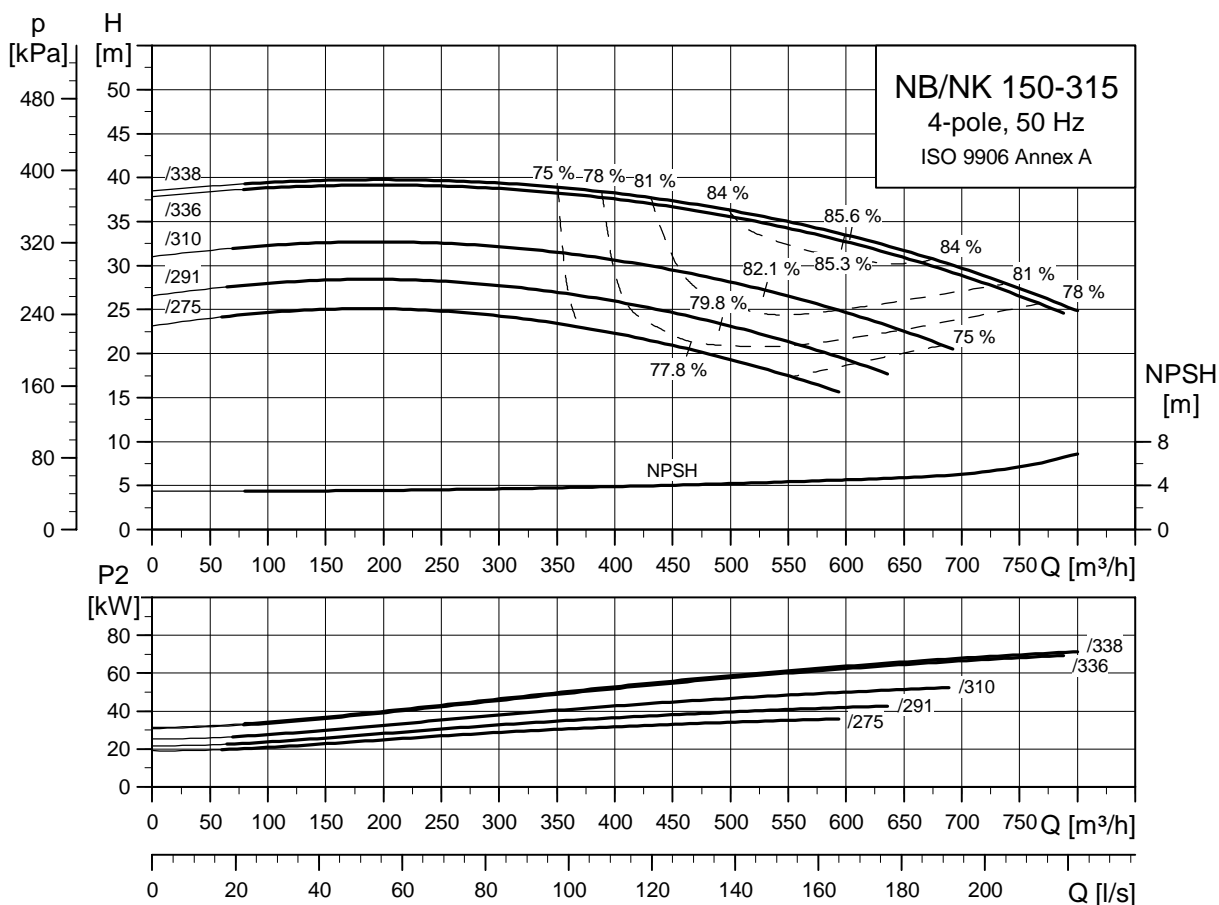
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-315
4 polos



TM03 5156 4106

TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 150-315/275 | 150-315/291 | 150-315/310 | 150-315/336 | 150-315/338 | | |
|----------------------------------------|------------------------------|------------------|-----------------|-----------------|-----------------|--------------|-----------|-------|
| Tipo de motor | Motor de gama alta | Siemens 225S | Siemens 225M | Siemens 250M | Siemens 280S | Siemens 280M | | |
| | Motor eléctrico | - | - | - | - | - | | |
| Datos generales NB/NK | P ₂ | [kW] | 37 | 45 | 55 | 75 | 90 | |
| | PN | [bar] | 10 | 10 | 10 | 10 | 10 | |
| | DNs | [mm] | 200 | 200 | 200 | 200 | 200 | |
| | DNd | [mm] | 150 | 150 | 150 | 150 | 150 | |
| | a | [mm] | 160 | 160 | 160 | 160 | 160 | |
| | h ₂ | [mm] | 450 | 450 | 450 | 450 | 450 | |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | |
| | Sd | | 8x23 | 8x23 | 8x23 | 8x23 | | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1483/1619 | 1543/1679 | 1651/1787 | 1654/1790 | 1764/1900 | |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- | |
| | Peso NK | [kg] | 753/748 | 793/788 | 917/916 | 1170/1164 | 1271/1265 | |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- | |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- | |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | | |
| Datos NK | l ₁ | [mm] | 1800 | 1800 | 1800 | 2000 | 2000 | |
| | l ₂ | [mm] | 300 | 300 | 300 | 330 | 330 | |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1340 | 1340 | |
| | b ₁ | [mm] | 600 | 600 | 600 | 750 | 750 | |
| | b ₂ | [mm] | 730 | 730 | 730 | 890 | 890 | |
| | b ₃ | [mm] | 670 | 670 | 670 | 830 | 830 | |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 | |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 | |
| | h | [mm] | 100 | 100 | 100 | 130 | 130 | |
| | h ₃ | [mm] | 380 | 380 | 380 | 415 | 415 | |
| | h ₄ ¹⁾ | [mm] | 705/- | 705/- | 772/- | 847/- | 847/- | |
| | Número de bancada | | 9 | 9 | 9 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C | C | |
| | L NB | [mm] | 461 | 461 | 461 | 461 | 461 | |
| | L NB SS | [mm] | - | - | - | - | - | |
| | h ₁ | [mm] | 315 | 315 | 315 | 315 | 315 | |
| | G ₁ | [mm] | 264 | 264 | 264 | 264 | 264 | |
| | G ₂ | [mm] | 334 | 334 | 334 | 334 | 334 | |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 | |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | |
| | n ₁ | [mm] | 550 | 550 | 550 | 550 | 550 | |
| | n ₂ | [mm] | 450 | 450 | 450 | 450 | 450 | |
| | b | [mm] | 100 | 100 | 100 | 100 | 100 | |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 | |
| | H | [mm] | 225 | 225 | 250 | 280 | 280 | |
| | | LB ¹⁾ | [mm] | 649/- | 709/- | 817/- | 820/- | 930/- |
| | | AD ¹⁾ | [mm] | 325/- | 325/- | 392/- | 432/- | 432/- |
| | | AG ¹⁾ | [mm] | 260/- | 260/- | 300/- | 300/- | 300/- |
| | | LL ¹⁾ | [mm] | 192/- | 192/- | 236/- | 236/- | 236/- |
| | | P | [mm] | 450 | 450 | 550 | 550 | 550 |
| | | C | [mm] | 149 | 149 | 168 | 190 | 190 |
| | | B | [mm] | 286 | 286 | 349 | 368 | 419 |
| | A | [mm] | 356 | 356 | 406 | 457 | 457 | |
| | K | [mm] | 19 | 19 | 24 | 24 | 24 | |
| | Peso NB ¹⁾ | [kg] | 531/- | 571/- | 714/- | 829/- | 929/- | |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

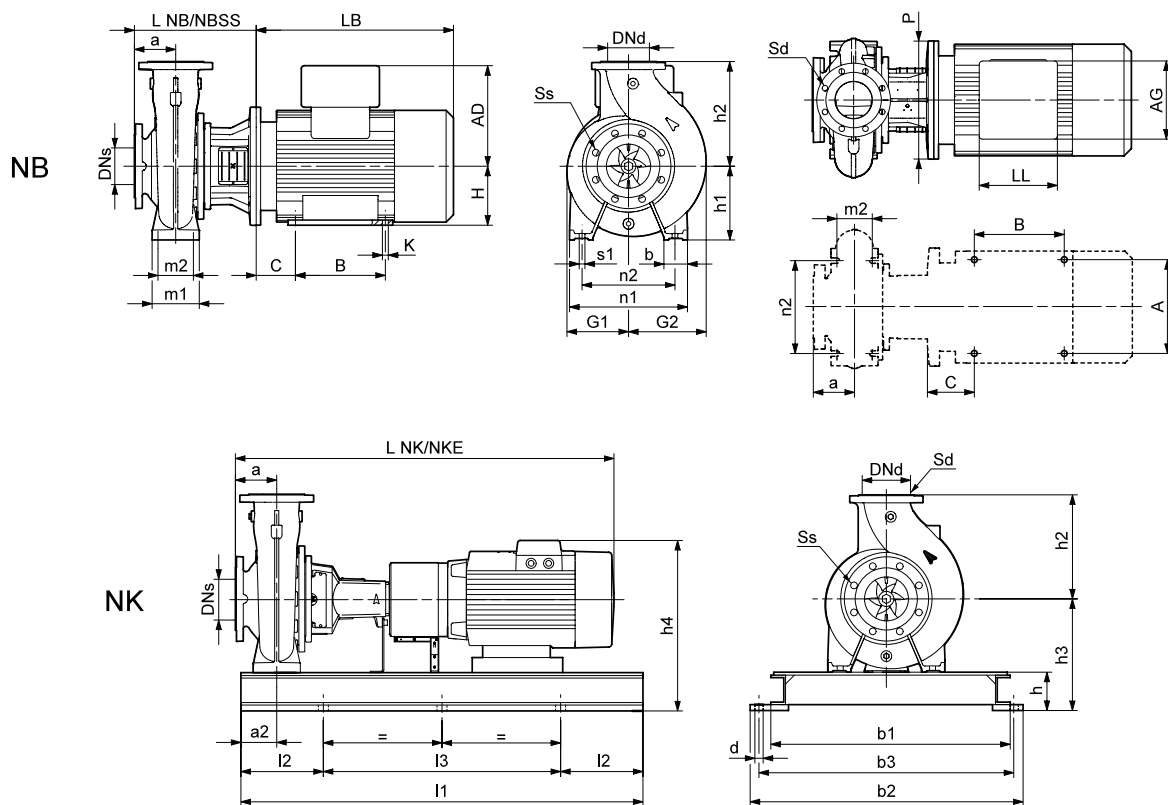
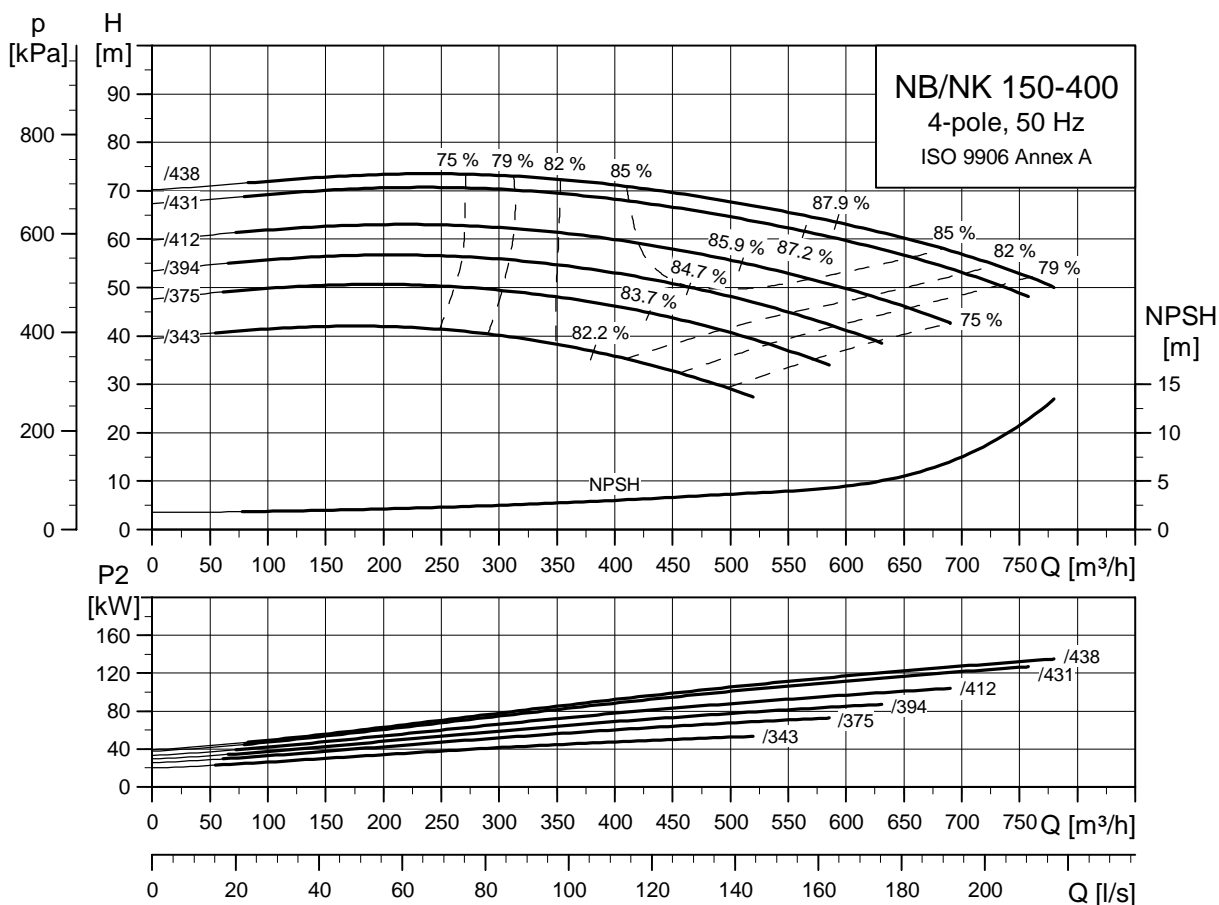
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-400
4 polos



TM03 5157 4106

TM03 4182 1806

TM03 4051 1806

| Tipo de bomba | | 150-400/343 | 150-400/375 | 150-400/394 | 150-400/412 | 150-400/431 ³⁾ | 150-400/438 ³⁾ | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|---------------------------|---------------------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 250M | Siemens 280S | Siemens 280M | Siemens 315S | Siemens 315MA | Siemens 315MB | |
| | Motor eléctrico | - | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 55 | 75 | 90 | 110 | 132 | 160 |
| | PN | [bar] | 10 | 10 | 10 | 10 | 10 | 10 |
| | DNs | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| | DNd | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| | a | [mm] | 160 | 160 | 160 | 160 | 160 | 160 |
| | h ₂ | [mm] | 450 | 450 | 450 | 450 | 450 | 450 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| | Sd | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1651/1787 | 1654/1790 | 1764/1900 | 1796/1932 | 2096/2272 | 2096/2272 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 942/941 | 1227/1221 | 1330/1324 | 1437/1439 | 1681/1685 | 1820/1824 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1800 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 300 | 330 | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1200 | 1340 | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 600 | 750 | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 730 | 890 | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 670 | 830 | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 | 110 |
| | h | [mm] | 100 | 130 | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 415 | 445 | 445 | 450 | 450 | 450 |
| | h ₄ ¹⁾ | [mm] | 807/- | 877/- | 877/- | 945/- | 945/- | 945/- |
| Número de bancada | | 9 | 10 | 10 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 474 | 474 | 474 | 504 | 504 | 504 |
| | L NB SS | [mm] | - | - | - | - | - | - |
| | h ₁ | [mm] | 315 | 315 | 315 | 315 | 315 | 315 |
| | G ₁ | [mm] | 291 | 291 | 291 | 291 | 291 | 291 |
| | G ₂ | [mm] | 339 | 339 | 339 | 339 | 339 | 339 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 550 | 550 | 550 | 550 | 550 | 550 |
| | n ₂ | [mm] | 450 | 450 | 450 | 450 | 450 | 450 |
| | b | [mm] | 100 | 100 | 100 | 100 | 100 | 100 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 | M20 |
| | H | [mm] | 250 | 280 | 280 | 315 | 315 | 315 |
| | LB ¹⁾ | [mm] | 817/- | 820/- | 930/- | 932/- | 1092/- | 1092/- |
| | AD ¹⁾ | [mm] | 392/- | 432/- | 432/- | 495/- | 495/- | 495/- |
| | AG ¹⁾ | [mm] | 300/- | 300/- | 300/- | 379/- | 379/- | 379/- |
| | LL ¹⁾ | [mm] | 236/- | 236/- | 236/- | 307/- | 307/- | 307/- |
| | P | [mm] | 550 | 550 | 550 | 660 | 660 | 660 |
| | C | [mm] | 168 | 190 | 190 | 216 | 216 | 216 |
| | B | [mm] | 349 | 368 | 419 | 406 | 457 | 508 |
| | A | [mm] | 406 | 457 | 457 | 508 | 508 | 508 |
| K | [mm] | 24 | 24 | 24 | 28 | 28 | 28 | |
| Peso NB ¹⁾ | [kg] | 770/- | 885/- | 985/- | 1162/- | 1317/- | 1457/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

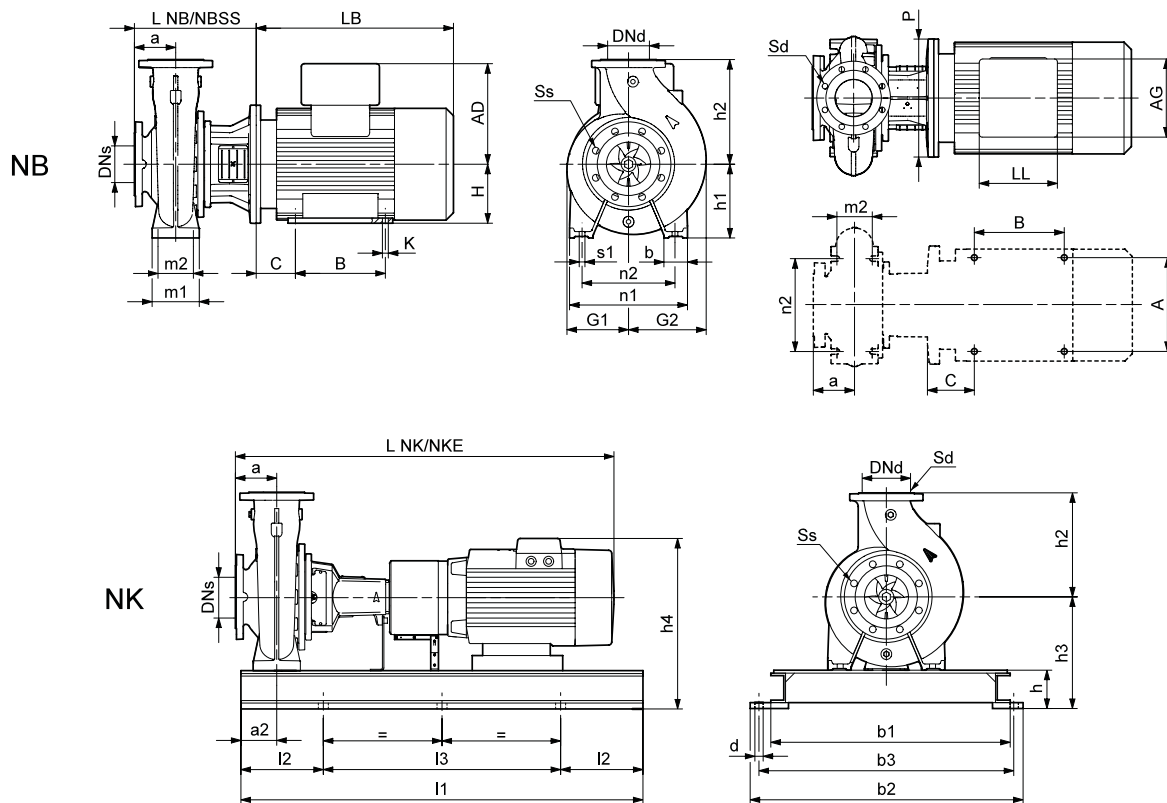
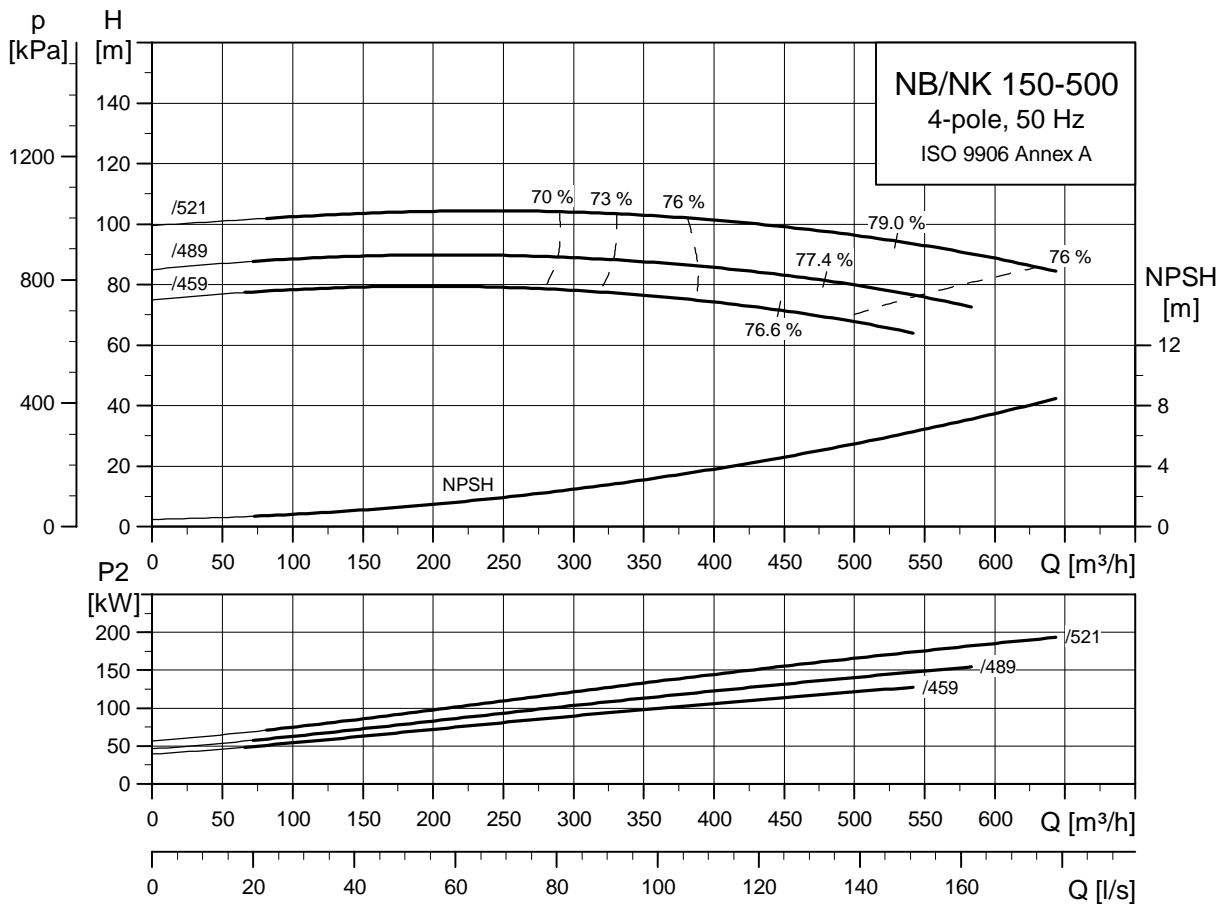
2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

3) NK 150-400/431 y NK 150-400/438 son sobredimensionadas.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-500
4 polos



TM03 5158 4106

TM03 4182 1806

TM03 4051 1806

| Tipo de bomba | | 150-500/459 | 150-500/489 | 150-500/521 | | |
|----------------------------------------|------------------------------|-----------------------|-----------------|-----------------|-----------------|--------|
| Tipo de motor | Motor de gama alta | Siemens 315MA | Siemens 315MB | Siemens 315L | | |
| | Motor eléctrico | - | - | - | | |
| Datos generales NB/NK | P ₂ | [kW] | 132 | 160 | 200 | |
| | PN | [bar] | 10 | 10 | 10 | |
| | DNs | [mm] | 200 | 200 | 200 | |
| | DNd | [mm] | 150 | 150 | 150 | |
| | a | [mm] | 180 | 180 | 180 | |
| | h ₂ | [mm] | 500 | 500 | 500 | |
| | Ss | | 8x23 | 8x23 | 8x23 | |
| | Sd | | 8x23 | 8x23 | | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 2116/2292 | 2116/2292 | 2256/2432 | |
| | L NKE | [mm] | -/- | -/- | -/- | |
| | Peso NK | [kg] | 1884/1880 | 2021/2017 | 2221/2217 | |
| | Peso NKE | [kg] | -/- | -/- | -/- | |
| | Peso NK SS | [kg] | -/- | -/- | -/- | |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | |
| | l ₂ | [mm] | 330 | 330 | 330 | |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | |
| | b ₁ | [mm] | 750 | 750 | 750 | |
| | b ₂ | [mm] | 890 | 890 | 890 | |
| | b ₃ | [mm] | 830 | 830 | 830 | |
| | d | [mm] | 28 | 28 | 28 | |
| | a ₂ | [mm] | 110 | 110 | 110 | |
| | h | [mm] | 130 | 130 | 130 | |
| | h ₃ | [mm] | 530 | 530 | 530 | |
| | h ₄ ¹⁾ | [mm] | 1025/- | 1025/- | 1025/- | |
| | Número de bancada | | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 554 | 554 | 554 | |
| | L NB SS | [mm] | - | - | - | |
| | h ₁ | [mm] | 400 | 400 | 400 | |
| | G ₁ | [mm] | 353 | 353 | 353 | |
| | G ₂ | [mm] | 396 | 396 | 396 | |
| | m ₁ | [mm] | 200 | 200 | 200 | |
| | m ₂ | [mm] | 150 | 150 | 150 | |
| | n ₁ | [mm] | 625 | 625 | 625 | |
| | n ₂ | [mm] | 500 | 500 | 500 | |
| | b | [mm] | 125 | 125 | 125 | |
| | s ₁ | [mm] | M20 | M20 | M20 | |
| | H | [mm] | 315 | 315 | 315 | |
| | | LB ¹⁾ | [mm] | 1092/- | 1092/- | 1232/- |
| | | AD ¹⁾ | [mm] | 495/- | 495/- | 495/- |
| | | AG ¹⁾ | [mm] | 379/- | 379/- | 379/- |
| | | LL ¹⁾ | [mm] | 307/- | 307/- | 307/- |
| | | P | [mm] | 660 | 660 | 660 |
| | | C | [mm] | 216 | 216 | 216 |
| | | B | [mm] | 457 | 508 | 457 |
| | | A | [mm] | 508 | 508 | 508 |
| | | K | [mm] | 28 | 28 | 28 |
| | | Peso NB ¹⁾ | [kg] | 1484/- | 1624/- | 1824/- |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | |

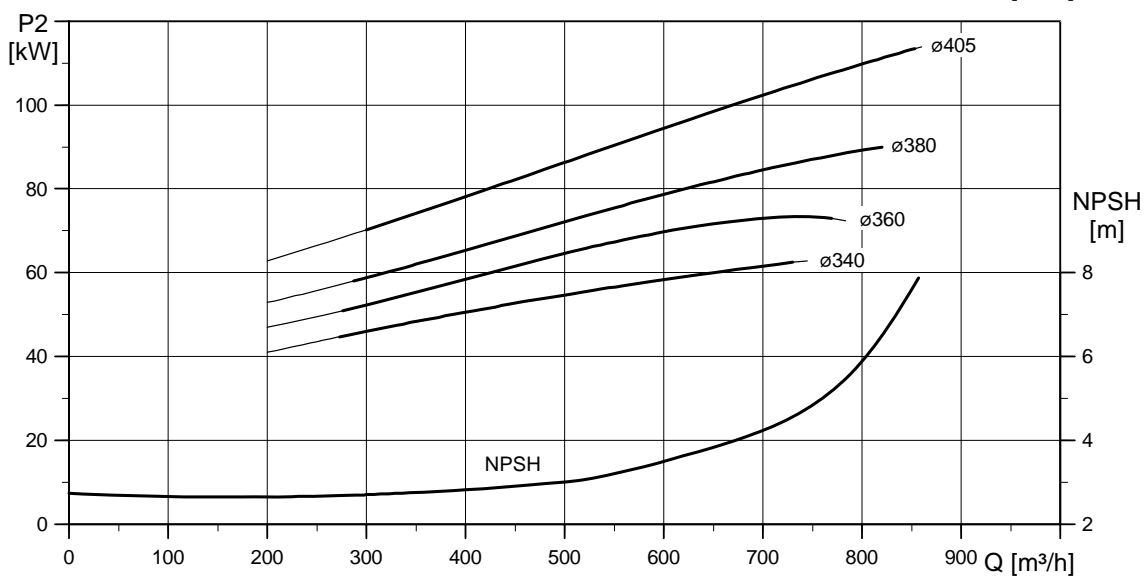
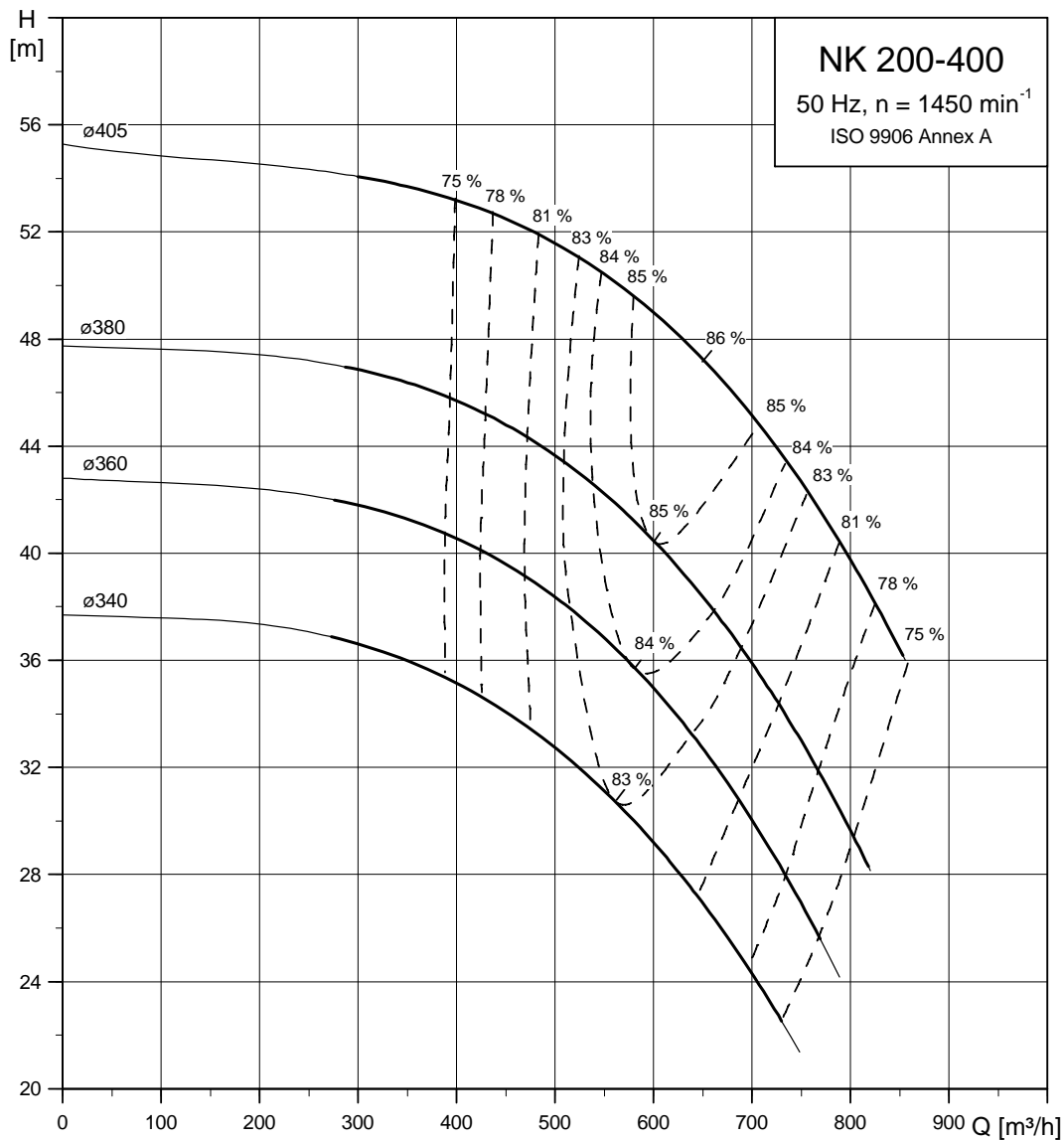
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

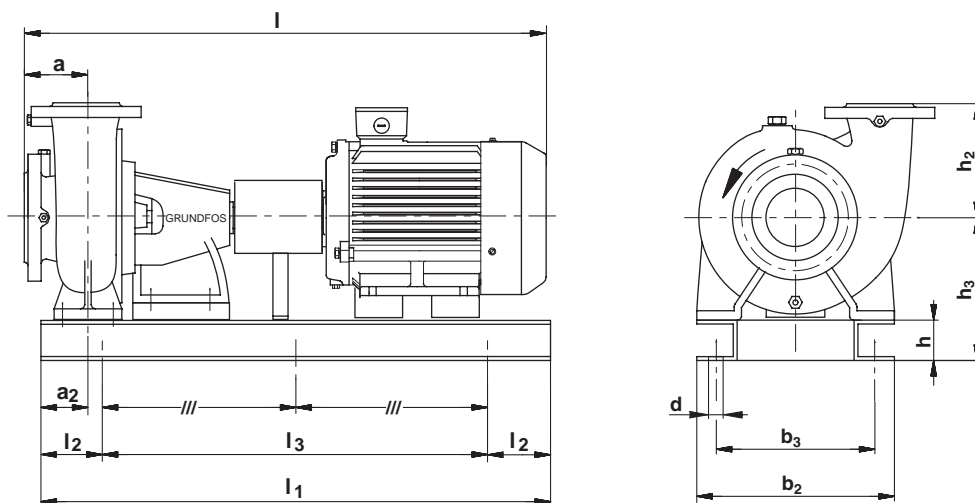
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NK 200-400
4 polos



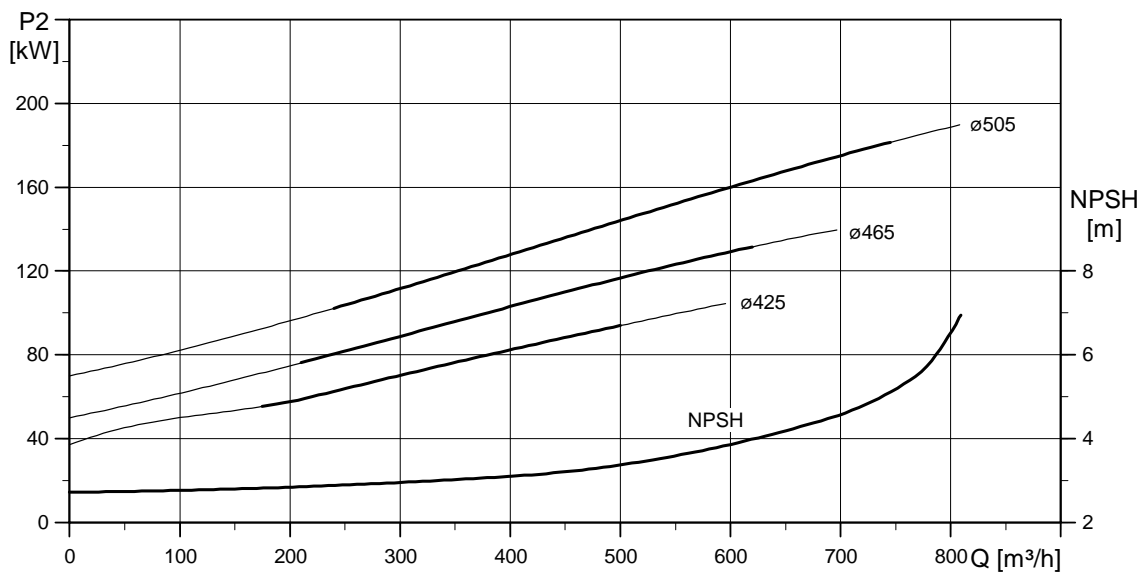
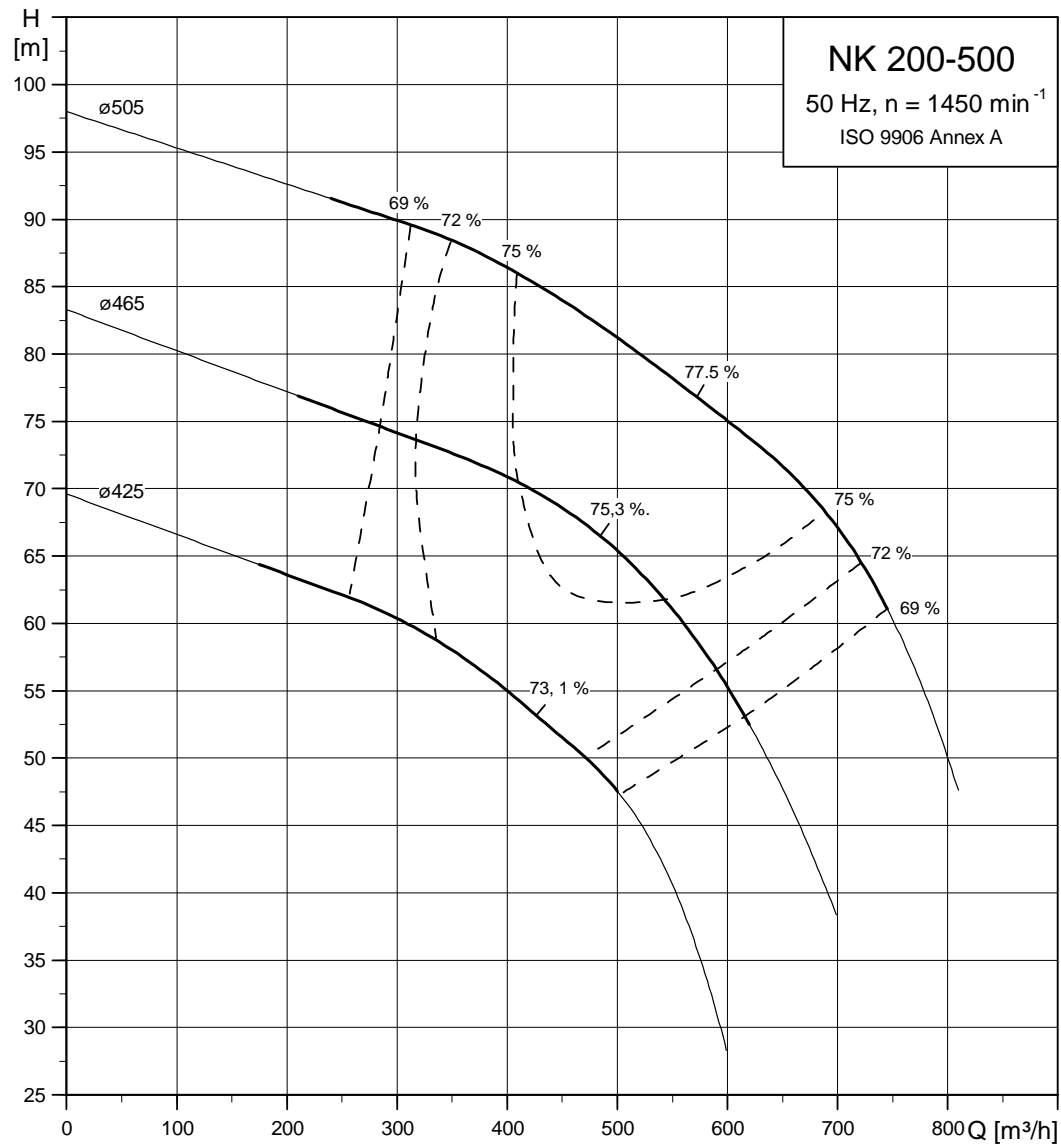
TM00 9733 0499



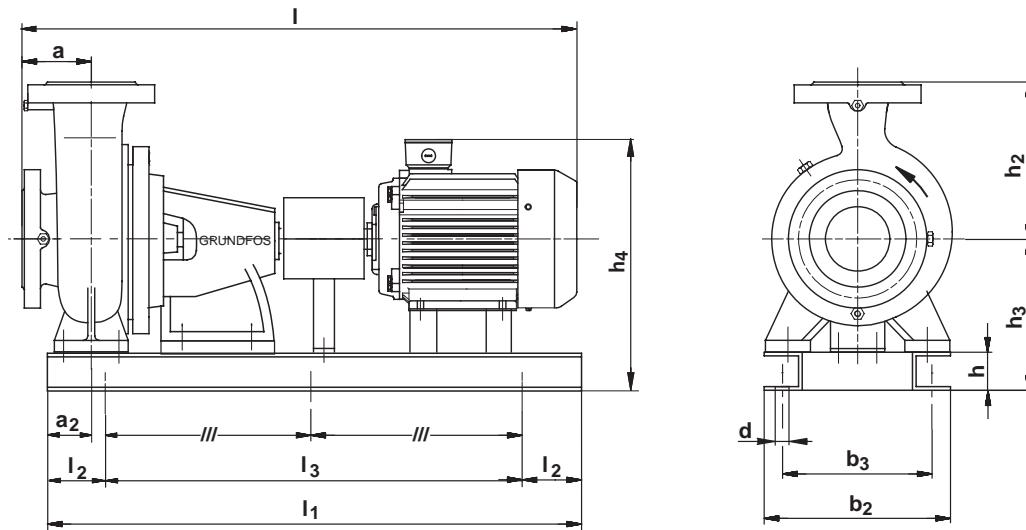
TM03 1279 1505

| NK 200-400* | | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| kW | | 45 | 55 | 75 | 90 | 110 | 132 |
| Gama de motor estándar | | MMG 225M-E | MMG 250M-E | MMG 280S-E | MMG 280M-E | MMG 315S-E | MMG 315M-E |
| Gama de motor alta | | MMG 225M-D | MMG 250M-D | MMG 280S-D | MMG 280M-D | MMG 315S-D | MMG 315MA-D |
| Gama de motor eléctrico | | - | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 | 10 |
| DN _d | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| DN _s | [mm] | 250 | 250 | 250 | 250 | 250 | 250 |
| a | [mm] | 180 | 180 | 180 | 180 | 180 | 180 |
| a ₂ | [mm] | 245 | 255 | 255 | 255 | 255 | 255 |
| h | [mm] | 160 | 180 | 180 | 180 | 180 | 200 |
| h ₂ | [mm] | 400 | 400 | 400 | 400 | 400 | 400 |
| h ₃ | [mm] | 470 | 490 | 490 | 490 | 495 | 515 |
| h ₄ ¹⁾ | [mm] | 790/836/- | 849/875/- | 876/909/- | 876/909/- | 966/1007/- | 986/1027/- |
| Acoplamiento estándar | | | | | | | |
| l ₁ ¹⁾ | [mm] | 1771/1821/- | 1844/1905/- | 1879/1971/- | 1930/2022/- | 2140/2060/- | 2253/2060/- |
| l ₁ | [mm] | 1900 | 2000 | 2000 | 2100 | 2100 | 2200 |
| l ₂ | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| l ₃ | [mm] | 1500 | 1600 | 1600 | 1700 | 1700 | 1800 |
| b ₁ | [mm] | - | - | - | - | - | - |
| b ₂ | [mm] | 680 | 690 | 715 | 715 | 750 | 760 |
| b ₃ | [mm] | 620 | 625 | 650 | 650 | 685 | 690 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 931/814/- | 1080/1323/- | 1151/1614/- | 1202/1167/- | 1583/1238/- | 1761/1501/- |
| Acoplamiento espaciador | | | | | | | |
| l ₁ ¹⁾ | [mm] | 1967/2017/- | 2040/2101/- | 2073/2165/- | 2124/2216/- | 2334/2254/- | 2447/2254/- |
| l ₁ | [mm] | 1900 | 2000 | 2000 | 2100 | 2200 | 2200 |
| l ₂ | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| l ₃ | [mm] | 1500 | 1600 | 1600 | 1700 | 1800 | 1800 |
| b ₁ | [mm] | - | - | - | - | - | - |
| b ₂ | [mm] | 680 | 690 | 715 | 715 | 750 | 760 |
| b ₃ | [mm] | 620 | 625 | 650 | 650 | 685 | 690 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 930/820/- | 1077/1319/- | 1159/1622/- | 1210/1175/- | 1597/1252/- | 1771/1511/- |

1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.



TM00 9734 1005



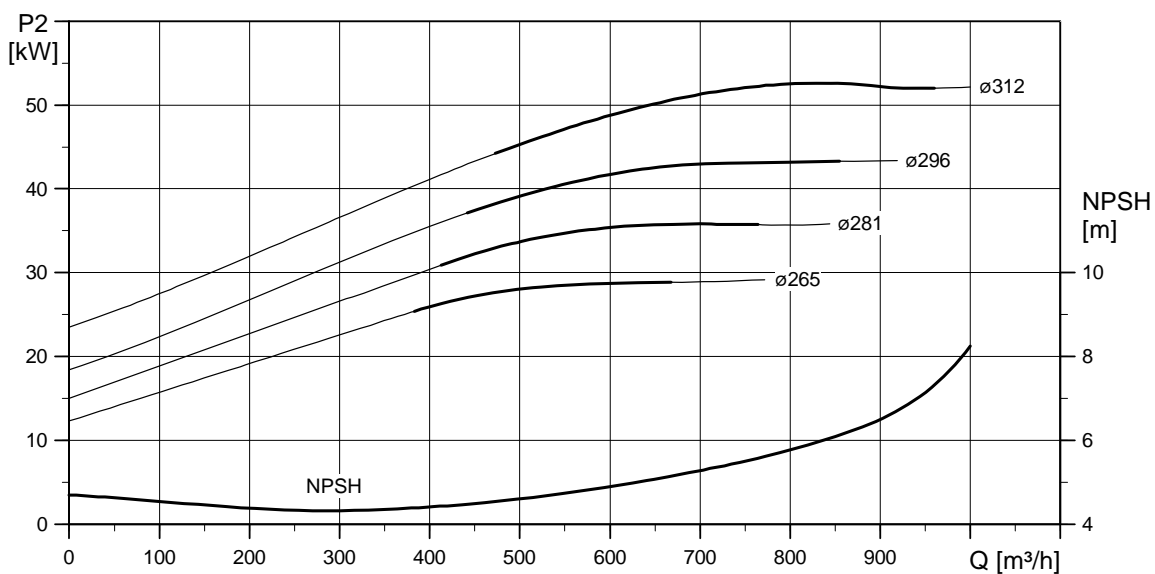
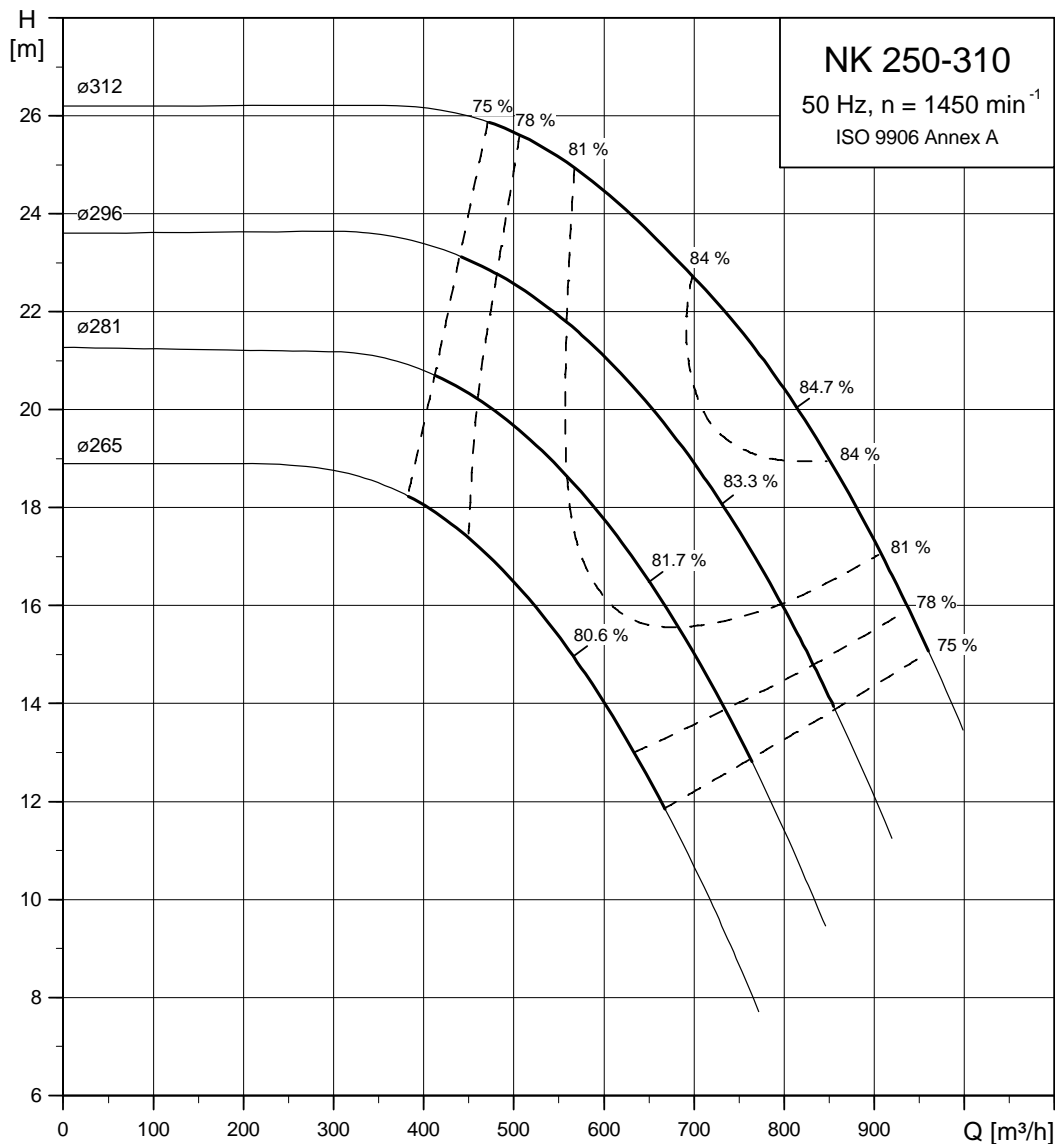
TM03 1282 1505

| NK 200-500* | | | | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| kW | | 55 | 75 | 90 | 110 | 132 | 160 | 200 | 250 |
| Gama de motor estándar | | MMG 250M-E | MMG 280S-E | MMG 280M-E | MMG 315S-E | MMG 315M-E | MMG 315LA-E | MMG 315LB-E | MMG 355M-E |
| Gama de motor alta | | MMG 250M-D | MMG 280S-D | MMG 280M-D | MMG 315S-D | MMG 315MA-D | MMG 315MB-D | MMG 315L-D | Siemens 315 |
| Gama de motor eléctrico | | - | - | - | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| DN _d | [mm] | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| DN _s | [mm] | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| a | [mm] | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| a ₂ | [mm] | 175 | 175 | 175 | 185 | 185 | 185 | 185 | 132 |
| h | [mm] | 160 | 180 | 180 | 180 | 200 | 200 | 220 | 240 |
| h ₂ | [mm] | 675 | 675 | 675 | 675 | 675 | 675 | 675 | 675 |
| h ₃ | [mm] | 480 | 490 | 490 | 495 | 515 | 515 | 535 | 595 |
| h ₄ ¹⁾ | [mm] | 839/865/- | 876/909/- | 876/909/- | 966/1007/- | 986/1027/- | 986/1027/- | 1006/1047/- | 1234/1045/- |
| Acoplamiento estándar | | | | | | | | | |
| l ₁ | [mm] | 1914/1975/- | 1949/2041/- | 2000/2092/- | 2210/2130/- | 2323/2130/- | 2323/2130/- | 2323/2250/- | 2522/2406/- |
| l ₁ | [mm] | 1900 | 2000 | 2000 | 2100 | 2100 | 2100 | 2200 | 2400 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1600 | 1700 | 1700 | 1800 | 1800 | 1800 | 1900 | 2100 |
| b ₁ | [mm] | - | - | - | - | - | - | - | - |
| b ₂ | [mm] | 935 | 945 | 945 | 945 | 955 | 955 | 965 | 975 |
| b ₃ | [mm] | 875 | 880 | 880 | 880 | 885 | 885 | 890 | 895 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 22 |
| Peso ¹⁾ | Neto [kg] | 1162/1254/- | 1258/2040/- | 1304/1269/- | 1694/1349/- | 1864/1604/- | 1949/1689/- | 2068/1893/- | 2467/2117/- |
| Acoplamiento espaciador | | | | | | | | | |
| l ₁ | [mm] | 2110/2171/- | 2143/2235/- | 2194/2286/- | 2404/2324/- | 2517/2324/- | 2517/2324/- | 2517/2444/- | 2716/2600/- |
| l ₁ | [mm] | 1900 | 2000 | 2000 | 2200 | 2200 | 2200 | 2200 | 2700 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1600 | 1700 | 1700 | 1900 | 1900 | 1900 | 1900 | 2400 |
| b ₁ | [mm] | - | - | - | - | - | - | - | - |
| b ₂ | [mm] | 935 | 945 | 945 | 945 | 955 | 955 | 965 | 975 |
| b ₃ | [mm] | 875 | 880 | 880 | 880 | 885 | 885 | 890 | 895 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 22 |
| Peso ¹⁾ | Neto [kg] | 1159/1251/- | 1266/2055/- | 1312/1277/- | 1700/1355/- | 1879/1619/- | 1970/1710/- | 2084/1909/- | 2509/2159/- |

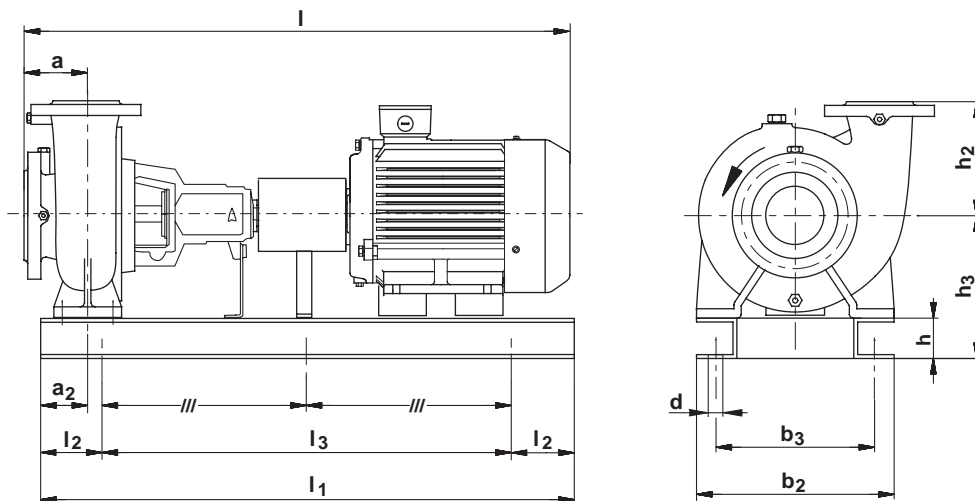
1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

Curvas de rendimiento

NK 250-310
4 polos



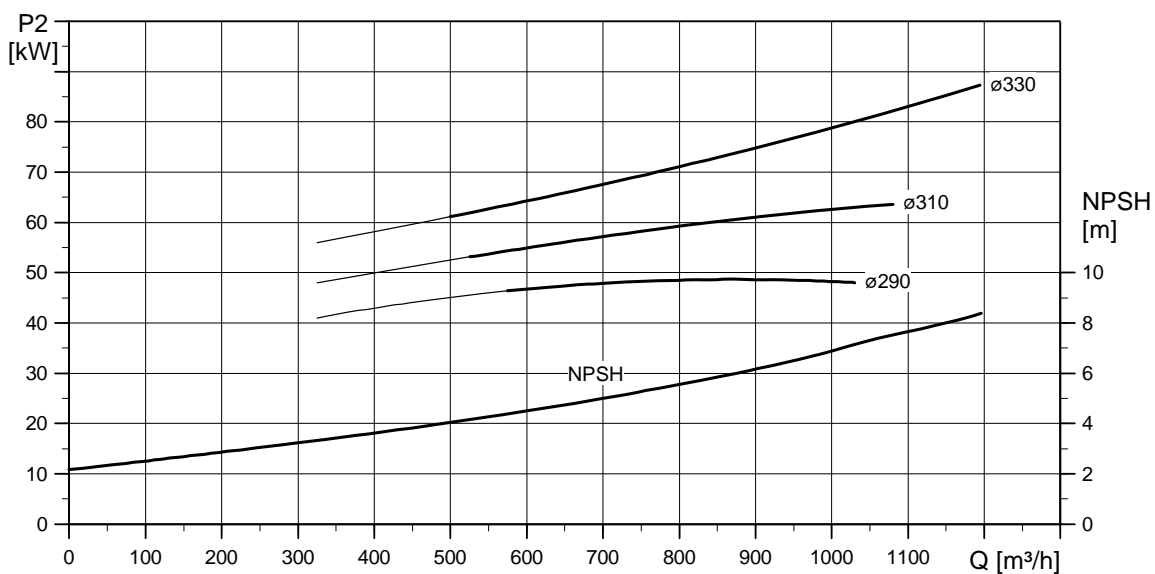
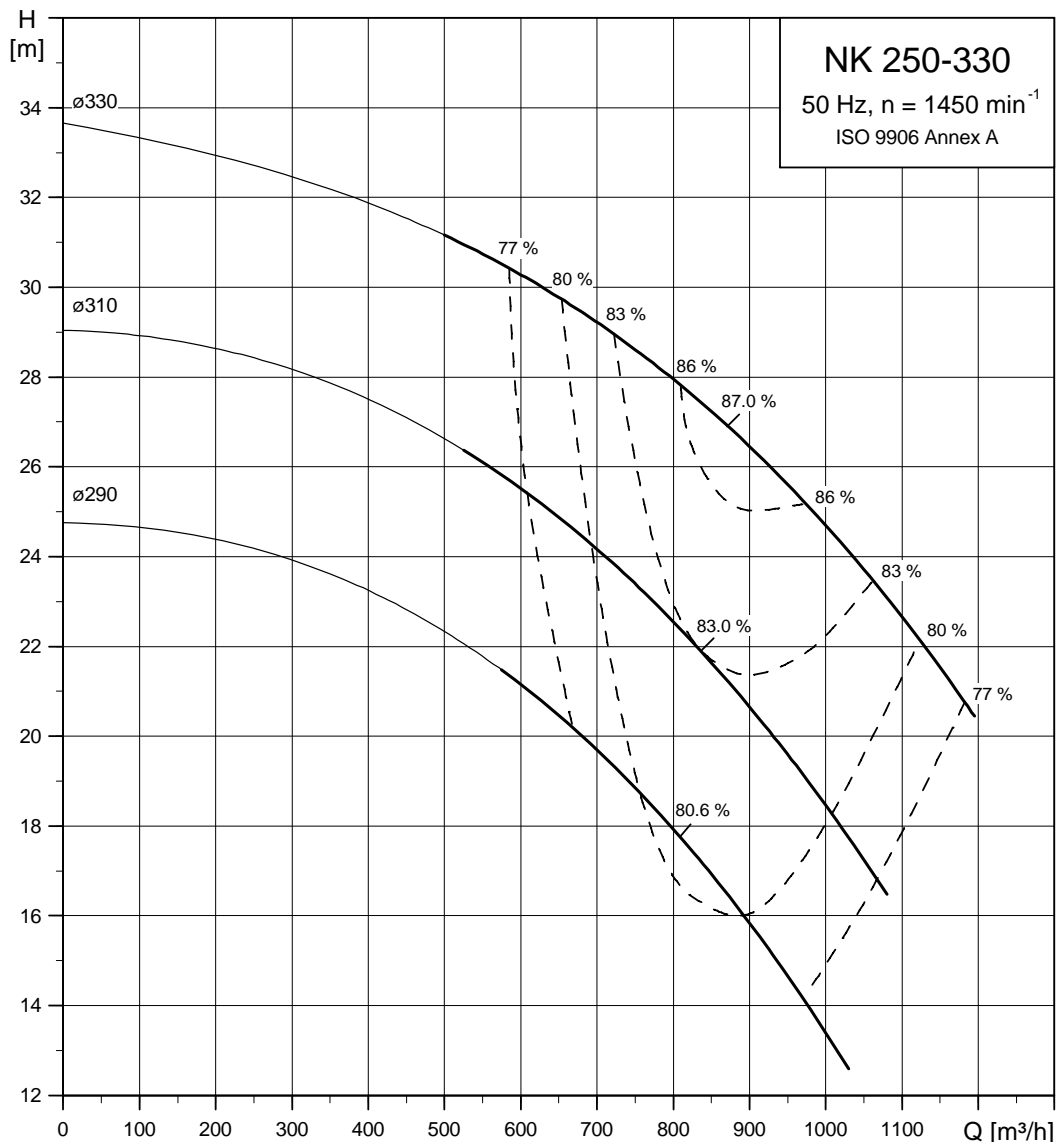
TM01 2901 0499



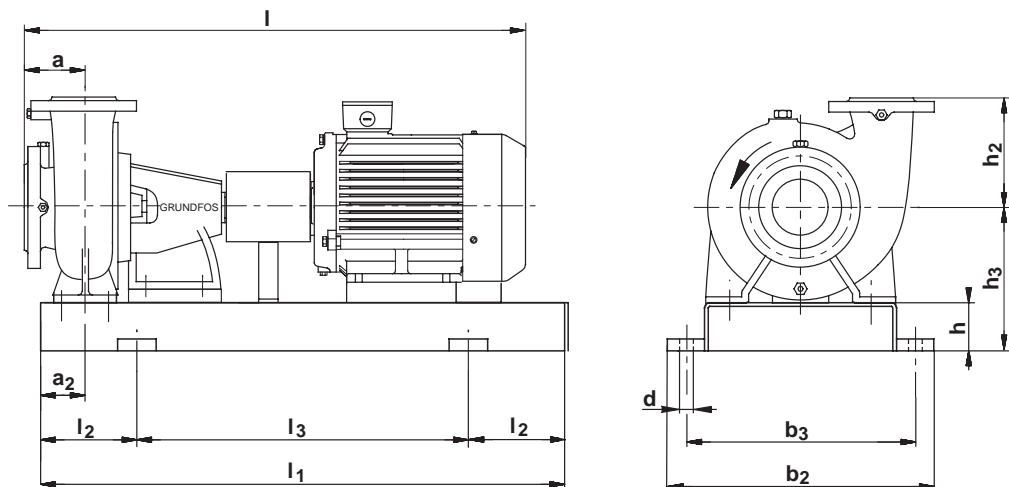
TM03 1278 1505

| NK 250-310* | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| kW | | 30 | 37 | 45 | 55 | 75 |
| Gama de motor estándar | | MMG 200L-E | MMG 225S-E | MMG 225M-E | MMG 250M-E | MMG 280S-E |
| Gama de motor alta | | MMG 200L-D | MMG 225S-D | MMG 225M-D | MMG 250M-D | MMG 280S-D |
| Gama de motor eléctrico | | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 |
| DN _d | [mm] | 250 | 250 | 250 | 250 | 250 |
| DN _s | [mm] | 300 | 300 | 300 | 300 | 300 |
| a | [mm] | 250 | 250 | 250 | 250 | 250 |
| a ₂ | [mm] | 195 | 195 | 195 | 205 | 205 |
| h | [mm] | 140 | 160 | 160 | 160 | 180 |
| h ₂ | [mm] | 400 | 400 | 400 | 400 | 400 |
| h ₃ | [mm] | 480 | 505 | 505 | 510 | 560 |
| h ₄ ¹⁾ | [mm] | 777/807/- | 825/871/- | 825/871/- | 869/895/- | 946/979/- |
| Acoplamiento estándar | | | | | | |
| l ¹⁾ | [mm] | 1576/1598/- | 1631/1706/- | 1656/1706/- | 1729/1790/- | 1764/1856/- |
| l ₁ | [mm] | 1700 | 1700 | 1700 | 1800 | 1800 |
| l ₂ | [mm] | 100 | 100 | 100 | 100 | 100 |
| l ₃ | [mm] | 1500 | 1500 | 1500 | 1600 | 1600 |
| b ₁ | [mm] | - | - | - | - | - |
| b ₂ | [mm] | 950 | 950 | 950 | 950 | 960 |
| b ₃ | [mm] | 885 | 885 | 885 | 885 | 890 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 781/661/- | 856/808/- | 881/873/- | 1015/1354/- | 1115/2345/- |
| Acoplamiento espaciador | | | | | | |
| l ¹⁾ | [mm] | 1772/1794/- | 1827/1902/- | 1852/1902/- | 1925/1986/- | 1958/2050/- |
| l ₁ | [mm] | 1700 | 1800 | 1800 | 1900 | 1900 |
| l ₂ | [mm] | 100 | 100 | 100 | 100 | 100 |
| l ₃ | [mm] | 1500 | 1600 | 1600 | 1700 | 1700 |
| b ₁ | [mm] | - | - | - | - | - |
| b ₂ | [mm] | 950 | 950 | 950 | 950 | 960 |
| b ₃ | [mm] | 885 | 885 | 885 | 885 | 890 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 778/666/- | 863/805/- | 888/870/- | 1017/1358/- | 1135/2366/- |

1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.



TM01 2900 0499



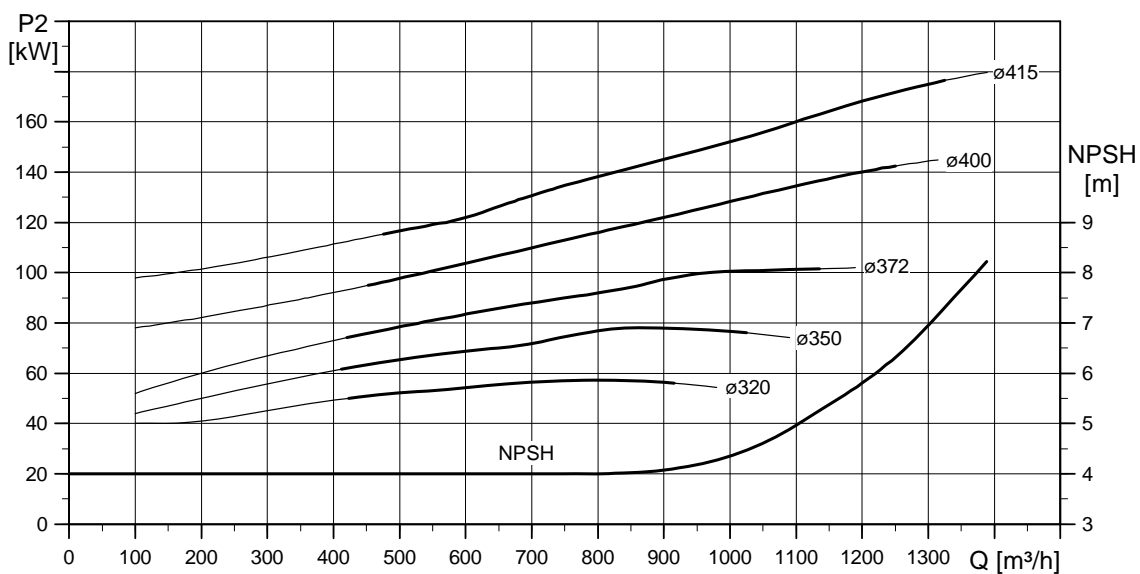
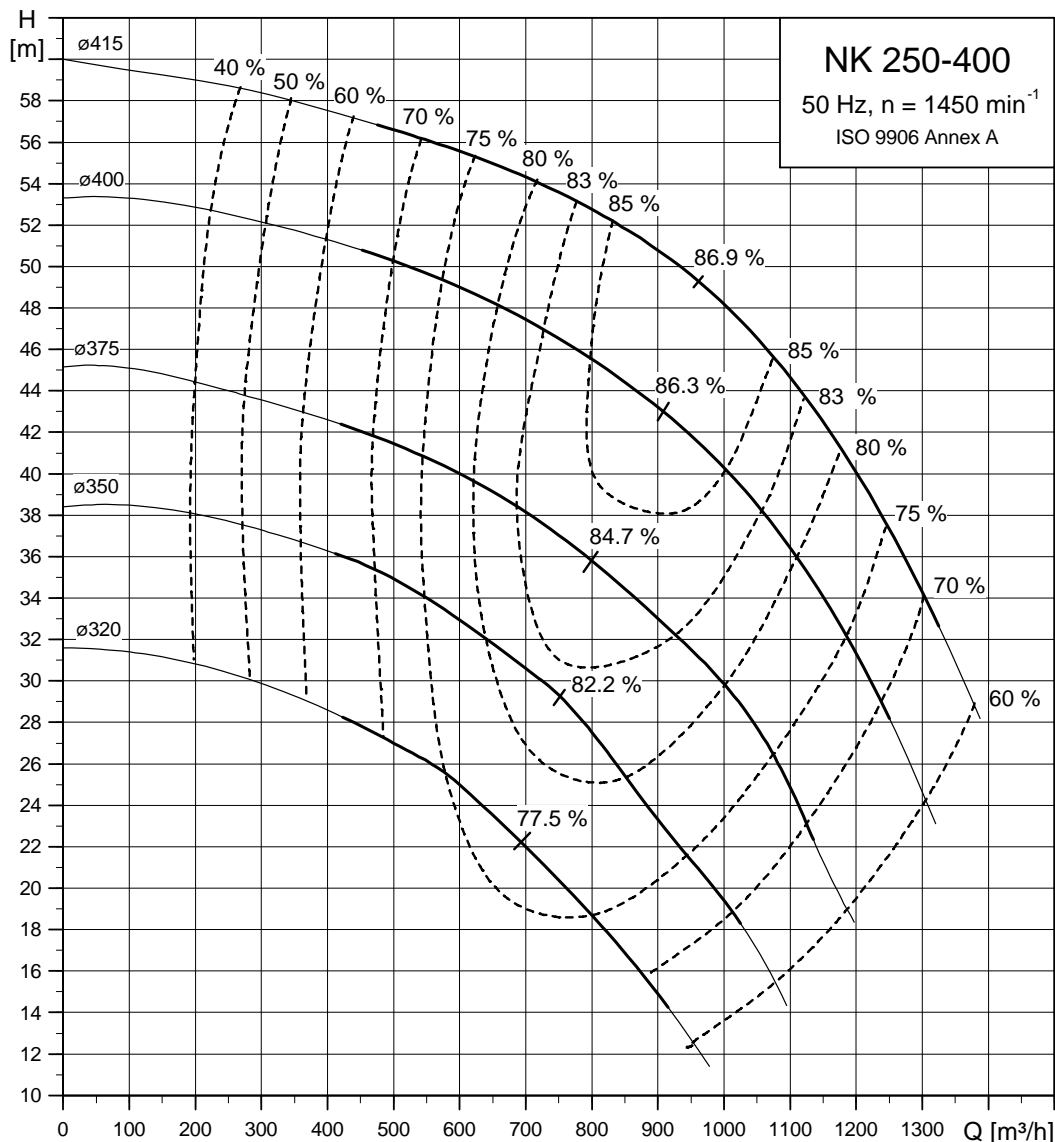
TM03 1280 1505

| NK 250-330* | | | | | |
|------------------------------|-----------|-------------|------------------|------------------|-------------------|
| kW | | 55 | 75 ³⁾ | 90 ³⁾ | 110 ³⁾ |
| Gama de motor estándar | | MMG 250M-E | MMG 280S-E | MMG 280M-E | MMG 315S-E |
| Gama de motor alta | | MMG 250M-D | MMG 280S-D | MMG 280M-D | MMG 315S-D |
| Gama de motor eléctrico | | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 |
| DN _d | [mm] | 250 | 250 | 250 | 250 |
| DN _s | [mm] | 250 | 250 | 250 | 250 |
| a | [mm] | 250 | 250 | 250 | 250 |
| a ₂ | [mm] | 220 | 220 | 220 | 220 |
| h | [mm] | 120 | 120 | 120 | 120 |
| h ₂ | [mm] | 400 | 400 | 400 | 400 |
| h ₃ | [mm] | 570 | 570 | 570 | 570 |
| h ₄ ¹⁾ | [mm] | 929/955/- | 956/989/- | 956/989/- | 1041/1082/- |
| Acoplamiento estándar | | | | | |
| l ₁ ¹⁾ | [mm] | 1904/1965/- | 1939/2031/- | 1990/2082/- | 2200/2120/- |
| l ₁ | [mm] | 2000 | 2000 | 2000 | 2000 |
| l ₂ | [mm] | 330 | 330 | 330 | 330 |
| l ₃ | [mm] | 1340 | 1340 | 1340 | 1340 |
| b ₁ | [mm] | 750 | 750 | 750 | 750 |
| b ₂ | [mm] | 910 | 910 | 910 | 910 |
| b ₃ | [mm] | 830 | 830 | 830 | 830 |
| d | [mm] | 28 | 28 | 28 | 28 |
| Peso ¹⁾ | Neto [kg] | 1059/1346/- | 1138/1114/- | 1184/1149/- | 1555/1210/- |
| Acoplamiento espaciador | | | | | |
| l ₁ ¹⁾ | [mm] | 2100/2161/- | 2133/2225/- | 2184/2276/- | 2394/2314/- |
| l ₁ | [mm] | 2000 | 2100 | 2200 | 2200 |
| l ₂ | [mm] | 330 | 150 | 150 | 150 |
| l ₃ | [mm] | 1340 | 1800 | 1900 | 1900 |
| b ₁ | [mm] | 750 | - | - | - |
| b ₂ | [mm] | 910 | 850 | 860 | 860 |
| b ₃ | [mm] | 830 | 790 | 795 | 795 |
| d | [mm] | 28 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 1056/1348/- | 1267/1243/- | 1340/1305/- | 1713/1368/- |

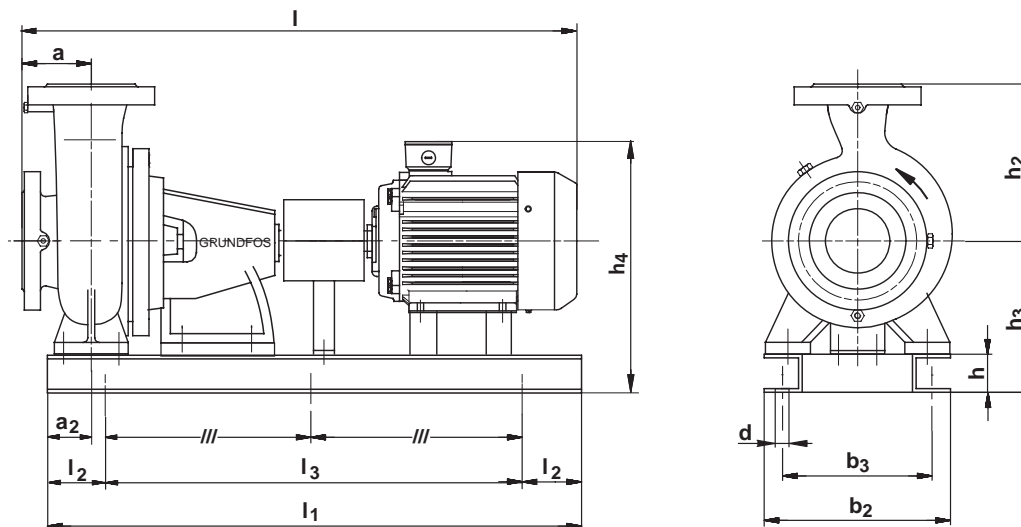
1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

Curvas de rendimiento

NK 250-400
4 polos



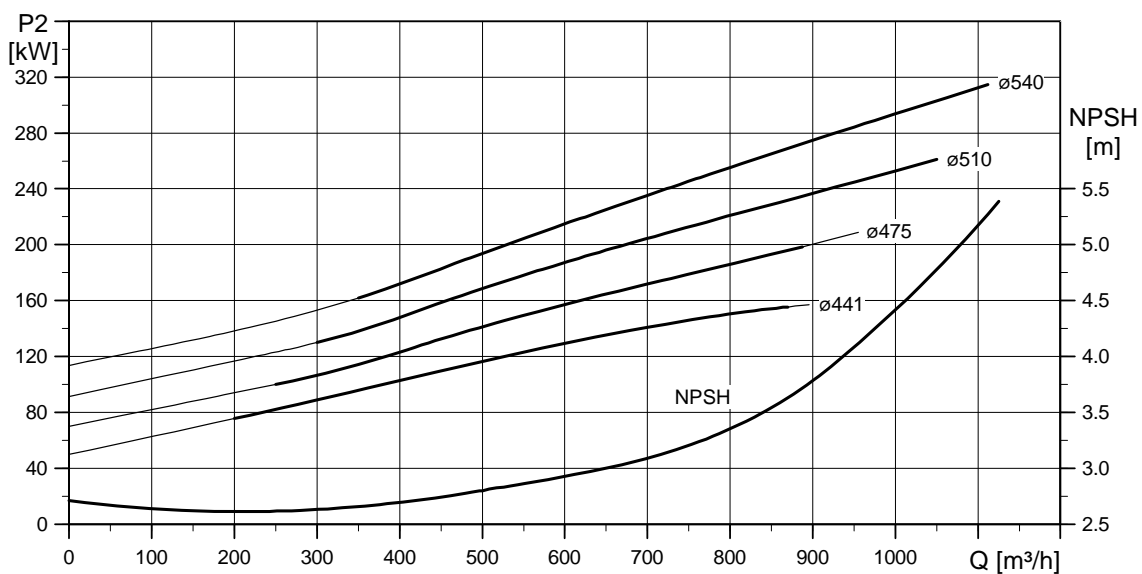
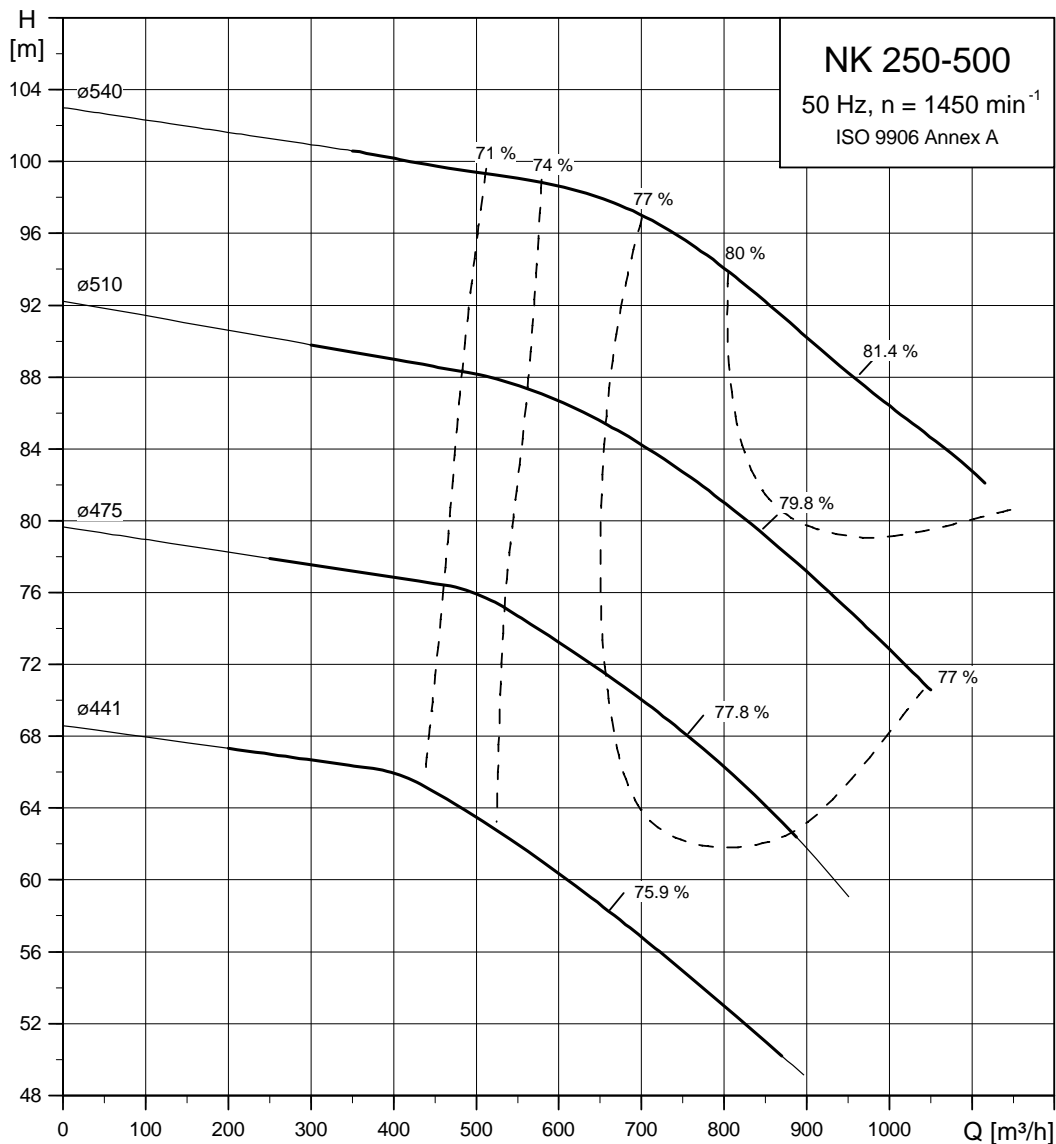
TM00 9735 0499



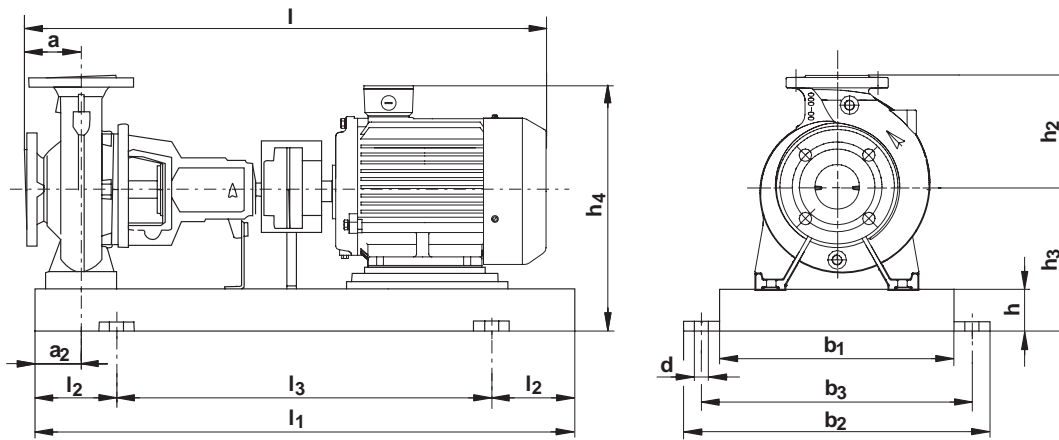
TM03 1282 1505

| NK 250-400* | | | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| kW | | 55 | 75 | 90 | 110 | 132 | 160 | 200 |
| Gama de motor estándar | | MMG 250M-E | MMG 280S-E | MMG 280M-E | MMG 315S-E | MMG 315M-E | MMG 315LA-E | MMG 315LB-E |
| Gama de motor alta | | MMG 250M-D | MMG 280S-D | MMG 280M-D | MMG 315S-D | MMG 315MA-D | MMG 315MB-D | MMG 315L-D |
| Gama de motor eléctrico | | - | - | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| DN _d | [mm] | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| DN _s | [mm] | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| a | [mm] | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| a ₂ | [mm] | 175 | 175 | 175 | 185 | 185 | 185 | 185 |
| h | [mm] | 160 | 180 | 180 | 180 | 200 | 200 | 220 |
| h ₂ | [mm] | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| h ₃ | [mm] | 470 | 480 | 480 | 495 | 515 | 515 | 535 |
| h ₄ ¹⁾ | [mm] | 829/855/- | 866/899/- | 866/899/- | 966/1007/- | 986/1027/- | 986/1027/- | 1006/1047/- |
| Acoplamiento estándar | | | | | | | | |
| l ¹⁾ | [mm] | 1854/1915/- | 1889/1981/- | 1940/2032/- | 2150/2070/- | 2263/2070/- | 2263/2070/- | 2263/2190/- |
| l ₁ | [mm] | 1900 | 2000 | 2000 | 2100 | 2100 | 2100 | 2200 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1600 | 1700 | 1700 | 1800 | 1800 | 1800 | 1900 |
| b ₁ | [mm] | - | - | - | - | - | - | - |
| b ₂ | [mm] | 850 | 860 | 860 | 860 | 870 | 870 | 880 |
| b ₃ | [mm] | 790 | 795 | 795 | 796 | 800 | 800 | 805 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 1090/1417/- | 1179/1155/- | 1225/1190/- | 1611/1266/- | 1784/1524/- | 1869/1609/- | 1995/1820/- |
| Acoplamiento espaciador | | | | | | | | |
| l ¹⁾ | [mm] | 2050/2111/- | 2083/2175/- | 2134/2226/- | 2344/2264/- | 2457/2264/- | 2457/2264/- | 2457/2384/- |
| l ₁ | [mm] | 1900 | 2000 | 2000 | 2100 | 2100 | 2100 | 2200 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1600 | 1700 | 1700 | 1800 | 1800 | 1800 | 1900 |
| b ₁ | [mm] | - | - | - | - | - | - | - |
| b ₂ | [mm] | 850 | 860 | 860 | 860 | 870 | 870 | 880 |
| b ₃ | [mm] | 790 | 795 | 795 | 796 | 800 | 800 | 805 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 1087/1413/- | 1187/1163/- | 1233/1198/- | 1621/1276/- | 1794/1534/- | 1885/1625/- | 2011/1836/- |

1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.



TM00 9736 0499



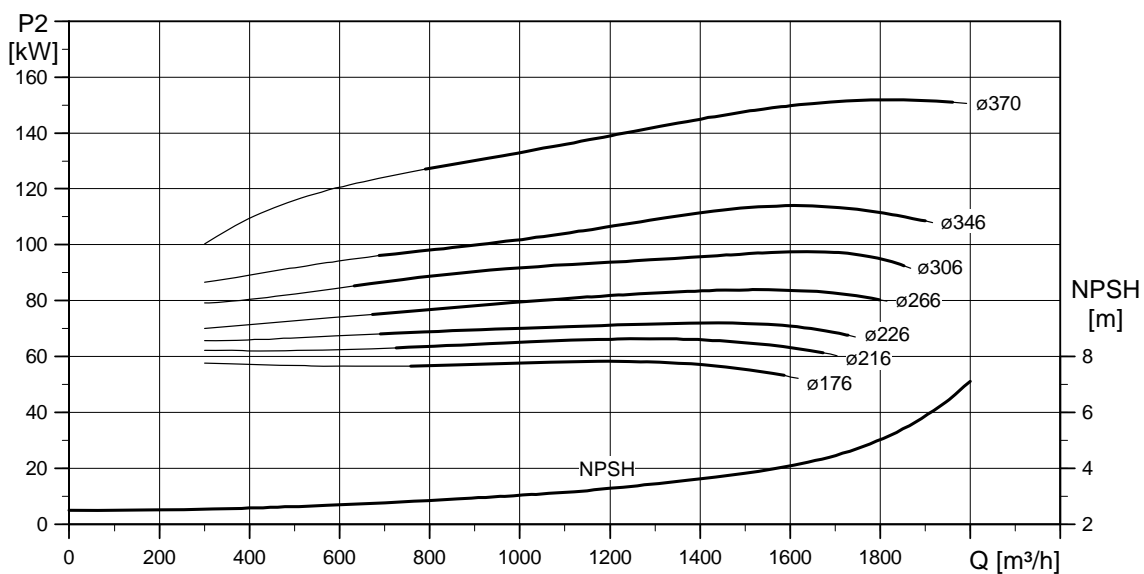
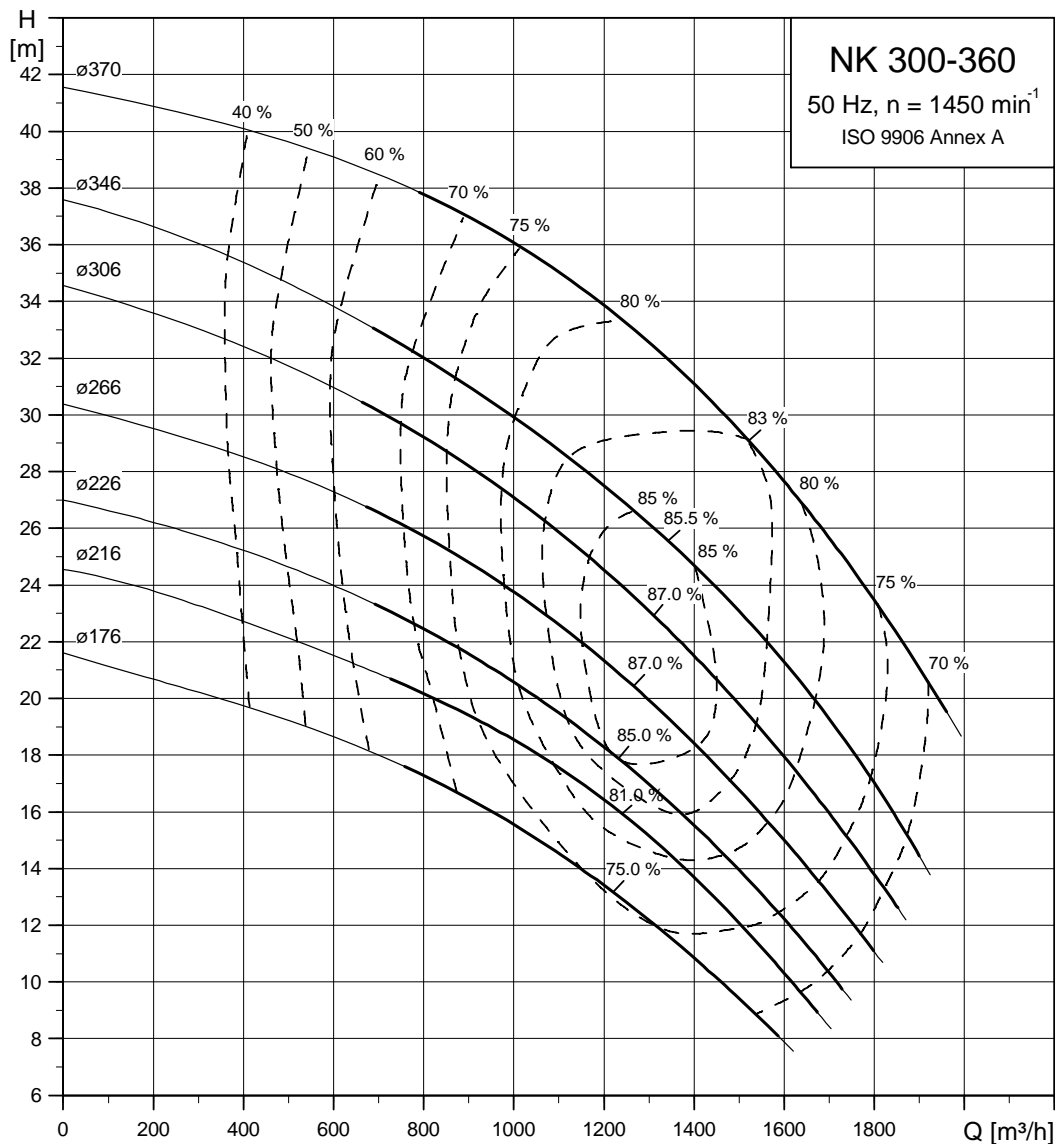
TM03 1282 1505

| NK 250-500* | | | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| kW | | 90 | 110 | 132 | 160 | 200 | 250 | 315 |
| Gama de motor estándar | | MMG 280M-E | MMG 315S-E | MMG 315M-E | MMG 315LA-E | MMG 315LB-E | MMG 355M-E | MMG 355L-E |
| Gama de motor alta | | MMG 280M-D | MMG 315S-D | MMG 315MA-D | MMG 315MB-D | MMG 315L-D | Siemens 315 | Siemens 315 |
| Gama de motor eléctrico | | - | - | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| DN _d | [mm] | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| DN _s | [mm] | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| a | [mm] | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| a ₂ | [mm] | 175 | 185 | 185 | 185 | 185 | 132 | 134 |
| h | [mm] | 180 | 180 | 200 | 200 | 220 | 240 | 240 |
| h ₂ | [mm] | 660 | 660 | 660 | 660 | 660 | 660 | 660 |
| h ₃ | [mm] | 490 | 495 | 515 | 515 | 535 | 615 | 615 |
| h ₄ ¹⁾ | [mm] | 876/909/- | 966/1007/- | 986/1027/- | 986/1027/- | 1006/1047/- | 1254/1045/- | 1254/1045/- |
| Acoplamiento estándar | | | | | | | | |
| l ¹⁾ | [mm] | 2050/2142/- | 2260/2180/- | 2373/2180/- | 2373/2180/- | 2373/2300/- | 2572/2456/- | 2542/2456/- |
| l ₁ | [mm] | 2000 | 2100 | 2100 | 2100 | 2200 | 2400 | 2400 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1700 | 1800 | 1800 | 1800 | 1900 | 2100 | 2100 |
| b ₁ | [mm] | - | - | - | - | - | - | - |
| b ₂ | [mm] | 945 | 945 | 955 | 955 | 965 | 985 | 985 |
| b ₃ | [mm] | 880 | 880 | 885 | 885 | 890 | 900 | 900 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 22 | 22 |
| Peso ¹⁾ | Neto [kg] | 1331/1296/- | 1721/1376/- | 1891/1631/- | 1976/1716/- | 2095/1920/- | 2491/2141/- | 2741/2341/- |
| Acoplamiento espaciador | | | | | | | | |
| l ¹⁾ | [mm] | 2244/2336/- | 2454/2374/- | 2567/2374/- | 2567/2374/- | 2567/2494/- | 2766/2650/- | 2736/2650/- |
| l ₁ | [mm] | 2000 | 2100 | 2100 | 2100 | 2200 | 2600 | 2600 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1700 | 1800 | 1800 | 1800 | 1900 | 2300 | 2300 |
| b ₁ | [mm] | - | - | - | - | - | - | - |
| b ₂ | [mm] | 945 | 945 | 955 | 955 | 965 | 985 | 985 |
| b ₃ | [mm] | 880 | 880 | 885 | 885 | 890 | 900 | 900 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 22 | 22 |
| Peso ¹⁾ | Neto [kg] | 1339/1304/- | 1731/1386/- | 1901/1641/- | 1992/1732/- | 2111/1936/- | 2517/2167/- | 2767/2367/- |

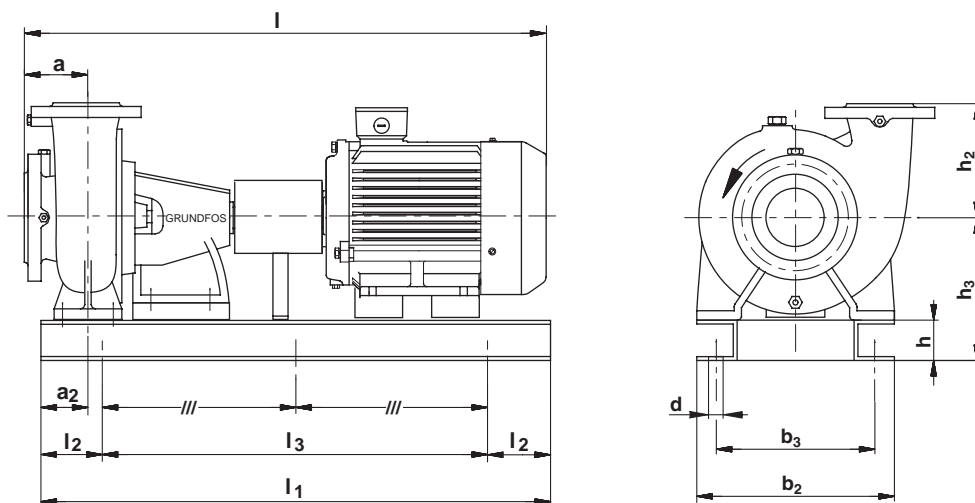
1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

Curvas de rendimiento

NK 300-360
4 polos



TM01 1715 0499

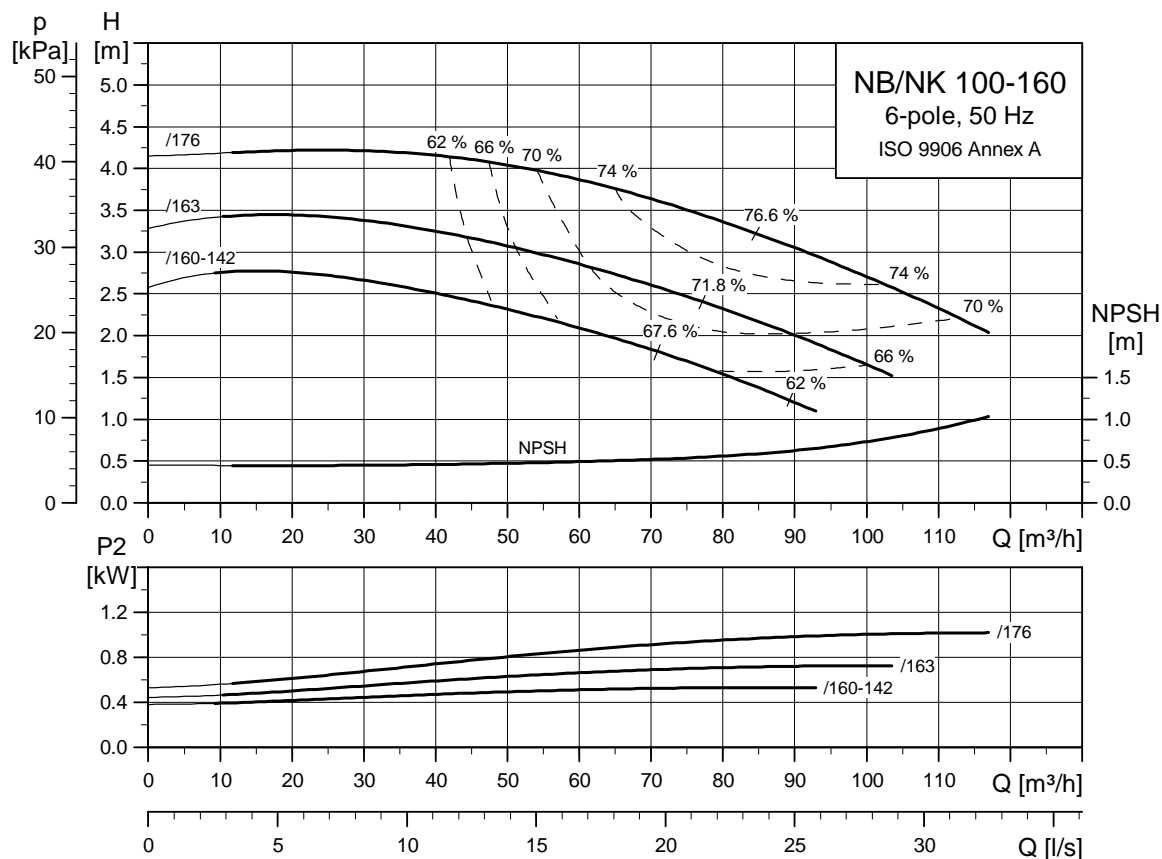


TM03 1279 1505

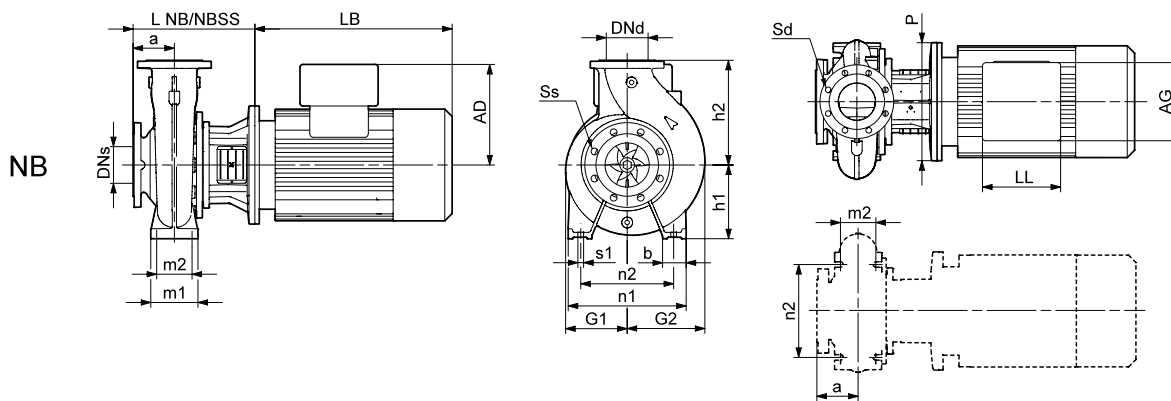
| NK 300-360* | | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| kW | | 55 | 75 | 90 | 110 | 132 | 160 |
| Gama de motor estándar | | MMG 250M-E | MMG 280S-E | MMG 280M-E | MMG 315S-E | MMG 315M-E | MMG 315LA-E |
| Gama de motor alta | | MMG 250M-D | MMG 280S-D | MMG 280M-D | MMG 315S-D | MMG 315MA-D | MMG 315MB-D |
| Gama de motor eléctrico | | - | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 | 10 |
| DN _d | [mm] | 300 | 300 | 300 | 300 | 300 | 300 |
| DN _s | [mm] | 300 | 300 | 300 | 300 | 300 | 300 |
| a | [mm] | 300 | 300 | 300 | 300 | 300 | 300 |
| a ₂ | [mm] | 180 | 180 | 180 | 180 | 180 | 180 |
| h | [mm] | 180 | 180 | 180 | 180 | 180 | 180 |
| h ₂ | [mm] | 440 | 440 | 440 | 440 | 440 | 440 |
| h ₃ | [mm] | 700 | 700 | 700 | 700 | 700 | 700 |
| h ₄ ¹⁾ | [mm] | 1059/1085/- | 1086/1119/- | 1086/1119/- | 1171/1212/- | 1171/1212/- | 1171/1212/- |
| Acoplamiento estándar | | | | | | | |
| l ¹⁾ | [mm] | 1974/2035/- | 2009/2101/- | 2060/2152/- | 2270/2190/- | 2383/2190/- | 2383/2190/- |
| l ₁ | [mm] | 2200 | 2300 | 2300 | 2400 | 2400 | 2400 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1900 | 2000 | 2000 | 2100 | 2100 | 2100 |
| b ₁ | [mm] | - | - | - | - | - | - |
| b ₂ | [mm] | 860 | 860 | 860 | 860 | 860 | 860 |
| b ₃ | [mm] | 796 | 795 | 795 | 795 | 795 | 795 |
| d | [mm] | 22 | 22 | 22 | 22 | 22 | 22 |
| Peso ¹⁾ | Neto [kg] | 1378/1348/- | 1465/1441/- | 1511/1476/- | 1928/1583/- | 2083/1823/- | 2168/1907/- |
| Acoplamiento espaciador | | | | | | | |
| l ¹⁾ | [mm] | 2250/2311/- | 2283/2375/- | 2334/2426/- | 2544/2464/- | 2657/2464/- | 2657/2464/- |
| l ₁ | [mm] | 2200 | 2300 | 2300 | 2400 | 2400 | 2400 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1900 | 2000 | 2000 | 2100 | 2100 | 2100 |
| b ₁ | [mm] | - | - | - | - | - | - |
| b ₂ | [mm] | 860 | 860 | 860 | 860 | 860 | 860 |
| b ₃ | [mm] | 796 | 795 | 795 | 795 | 795 | 795 |
| d | [mm] | 22 | 22 | 22 | 22 | 22 | 22 |
| Peso ¹⁾ | Neto [kg] | 1400/1345/- | 1492/1468/- | 1538/1503/- | 1949/1604/- | 2104/1844/- | 2183/1923/- |

1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

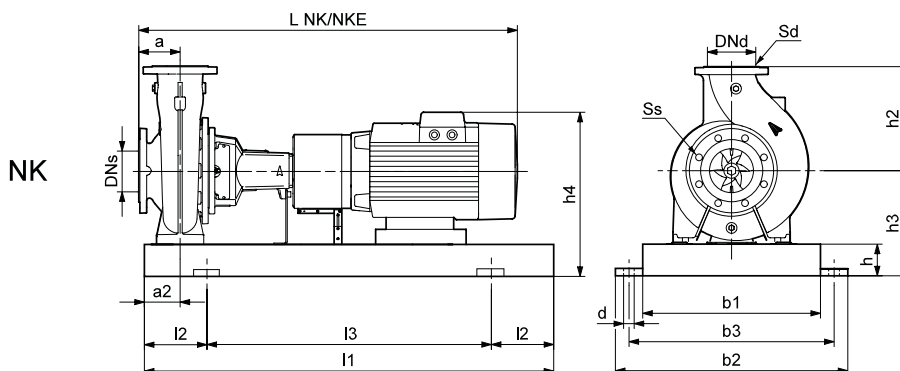
NB, NK 6 polos



TM03 5159 4106



TM03 4180 1806



TM03 6005 4106

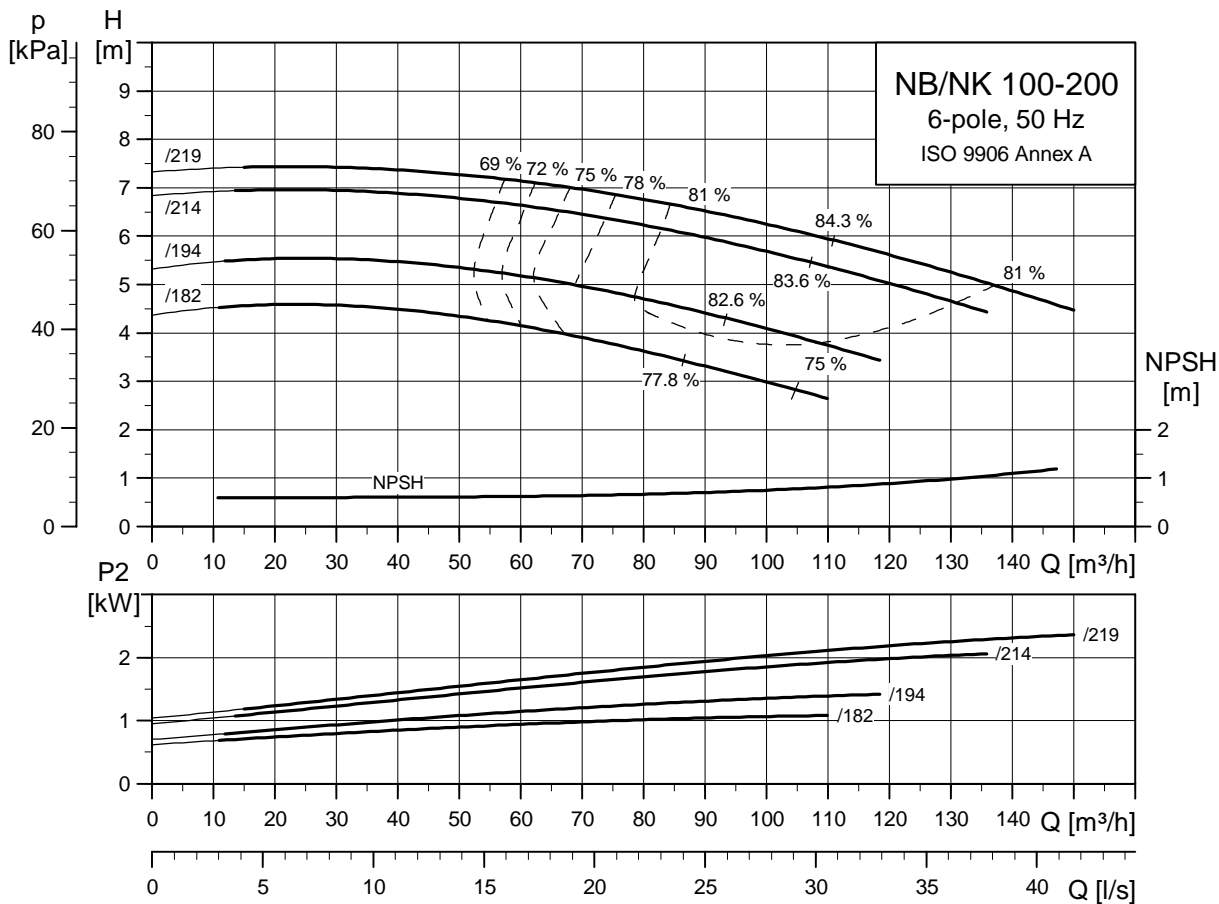
| Tipo de bomba | | 100-160/151 | 100-160/163 | 100-160/176 | |
|----------------------------------------|--------------------|-------------|-------------|-------------|----------|
| Tipo de motor | Motor de gama alta | Siemens 80B | Siemens 90S | Siemens 90L | |
| | Motor eléctrico | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 0.55 | 0.75 | 1.1 |
| | PN | [bar] | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 |
| | a | [mm] | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | Sd | | 8x19 | 8x19 | |
| | L NK | [mm] | 763/899 | 820/956 | 865/1001 |
| | L NKE | [mm] | -/- | -/- | -/- |
| | Peso NK | [kg] | 169/168 | 174/173 | 177/176 |
| | Peso NKE | [kg] | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- |
| | l ₁ | [mm] | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 205 | 205 | 205 |
| | l ₃ | [mm] | 840 | 840 | 840 |
| | b ₁ | [mm] | 430 | 430 | 430 |
| | b ₂ | [mm] | 540 | 540 | 540 |
| | b ₃ | [mm] | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 |
| | a ₂ | [mm] | 90 | 90 | 90 |
| | h | [mm] | 80 | 80 | 80 |
| | h ₃ | [mm] | 280 | 280 | 280 |
| h ₄ ¹⁾ | [mm] | 400/- | 408/- | 408/- | |
| Número de bancada | | 6 | 6 | 6 | |
| Datos NB | Diseño | | A | A | A |
| | L NB | [mm] | 298 | 298 | 298 |
| | L NB SS | [mm] | - | - | - |
| | h ₁ | [mm] | 200 | 200 | 200 |
| | G ₁ | [mm] | 146 | 146 | 146 |
| | G ₂ | [mm] | 187 | 187 | 187 |
| | m ₁ | [mm] | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 |
| | n ₁ | [mm] | 360 | 360 | 360 |
| | n ₂ | [mm] | 280 | 280 | 280 |
| | b | [mm] | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 |
| | H | [mm] | - | - | - |
| | LB ¹⁾ | [mm] | 234/- | 281/- | 326/- |
| | AD ¹⁾ | [mm] | 120/- | 128/- | 128/- |
| | AG ¹⁾ | [mm] | 75/- | 75/- | 75/- |
| | LL ¹⁾ | [mm] | 75/- | 75/- | 75/- |
| | P | [mm] | 200 | 200 | 200 |
| | C | [mm] | - | - | - |
| | B | [mm] | - | - | - |
| A | [mm] | - | - | - | |
| K | [mm] | - | - | - | |
| Peso NB ¹⁾ | [kg] | 77/- | 83/- | 86/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

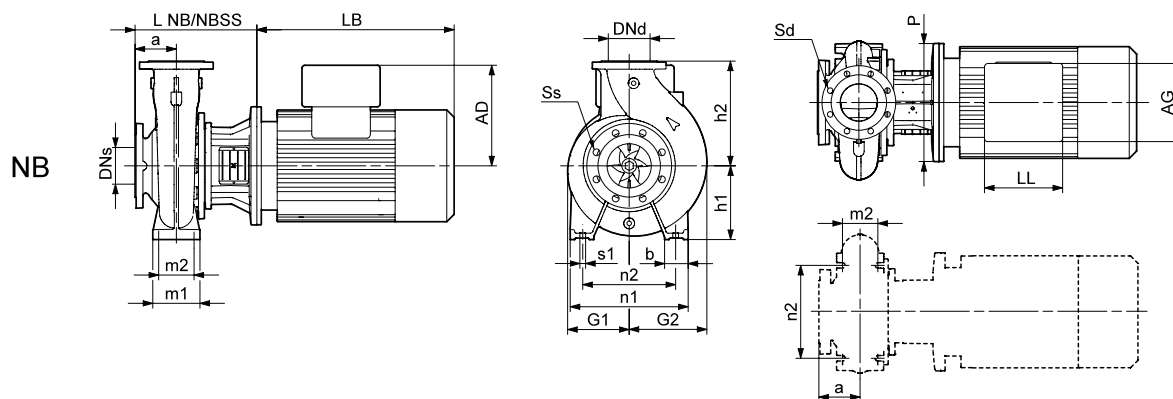
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

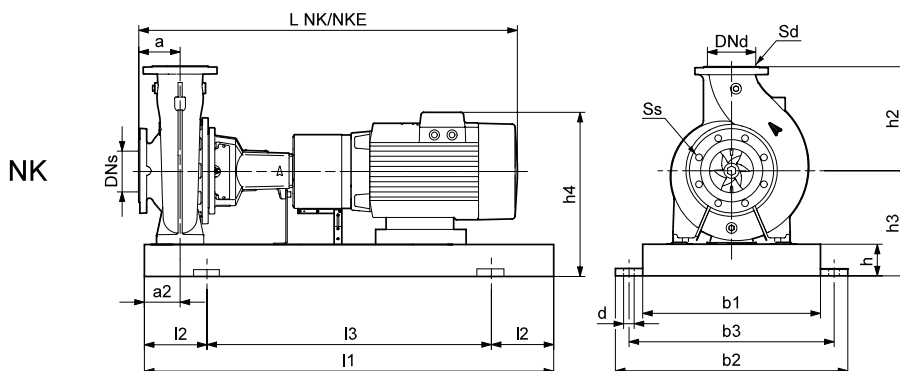
NB, NK 100-200
6 polos



TM03 5160 4106



TM03 4180 1806



TM03 6005 4106

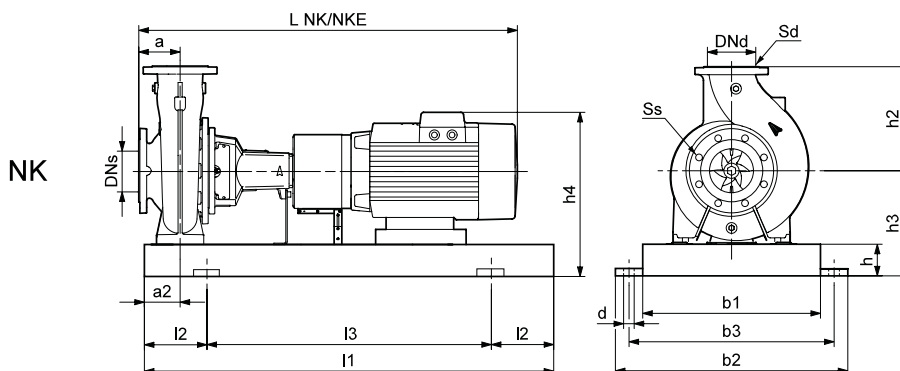
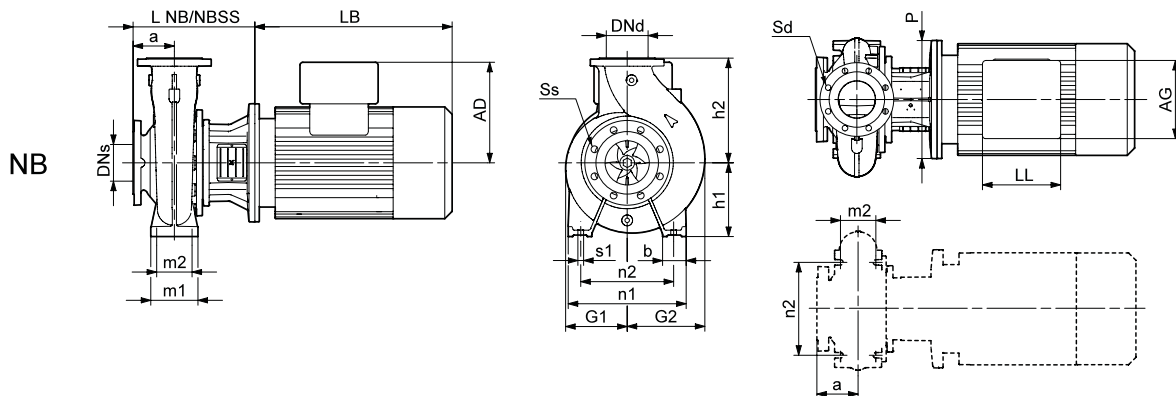
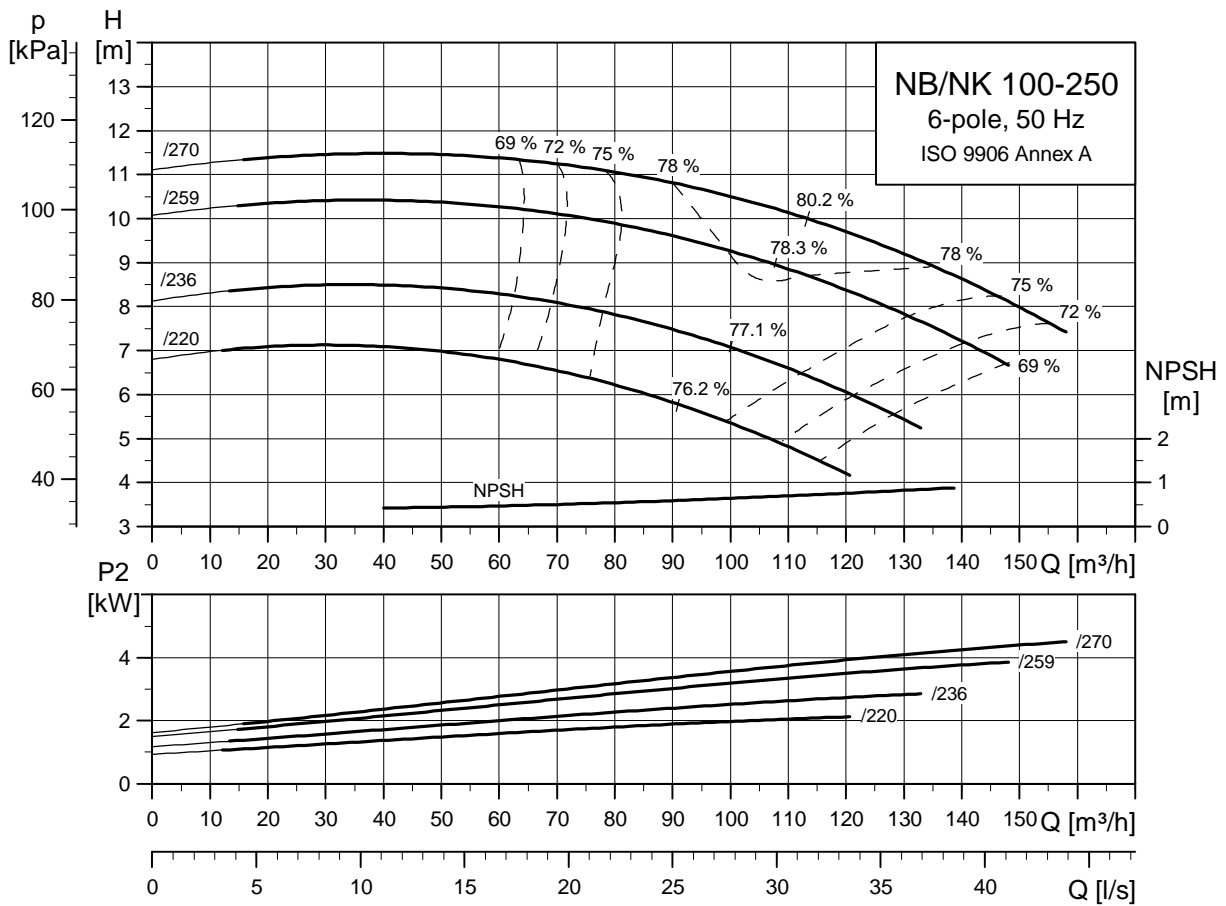
| Tipo de bomba | | 100-200/182 | 100-200/194 | 100-200/214 | 100-200/219 | |
|----------------------------------------|--------------------|-------------|--------------|--------------|---------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 90L | Siemens 100L | Siemens 112M | Siemens 132SA | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 1.1 | 1.5 | 2.2 | 3 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 |
| | a | [mm] | 125 | 125 | 125 | 125 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| | L NK | [mm] | 975/1111 | 1006/1142 | 1030/1166 | 1052/1188 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 201/200 | 213/211 | 222/220 | 237/234 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| | l ₁ | [mm] | 1250 | 1250 | 1250 | 1250 |
| | l ₂ | [mm] | 205 | 205 | 205 | 205 |
| | l ₃ | [mm] | 840 | 840 | 840 | 840 |
| | b ₁ | [mm] | 430 | 430 | 430 | 430 |
| | b ₂ | [mm] | 540 | 540 | 540 | 540 |
| | b ₃ | [mm] | 490 | 490 | 490 | 490 |
| | d | [mm] | 24 | 24 | 24 | 24 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 80 | 80 | 80 | 80 |
| | h ₃ | [mm] | 280 | 280 | 280 | 280 |
| h ₄ ¹⁾ | [mm] | 408/- | 415/- | 428/- | 447/- | |
| Número de bancada | | 6 | 6 | 6 | 6 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 328 | 348 | 348 | 368 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 200 | 200 | 200 | 200 |
| | G ₁ | [mm] | 169 | 169 | 169 | 169 |
| | G ₂ | [mm] | 212 | 212 | 212 | 212 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 360 | 360 | 360 | 360 |
| | n ₂ | [mm] | 280 | 280 | 280 | 280 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 326/- | 347/- | 371/- | 373/- |
| | AD ¹⁾ | [mm] | 128/- | 135/- | 148/- | 167/- |
| | AG ¹⁾ | [mm] | 75/- | 120/- | 120/- | 140/- |
| | LL ¹⁾ | [mm] | 75/- | 120/- | 120/- | 140/- |
| | P | [mm] | 200 | 250 | 250 | 300 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 99/- | 107/- | 119/- | 137/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-250
6 polos



TM03 5161 4106

TM03 4180 1806

TM03 6005 4106

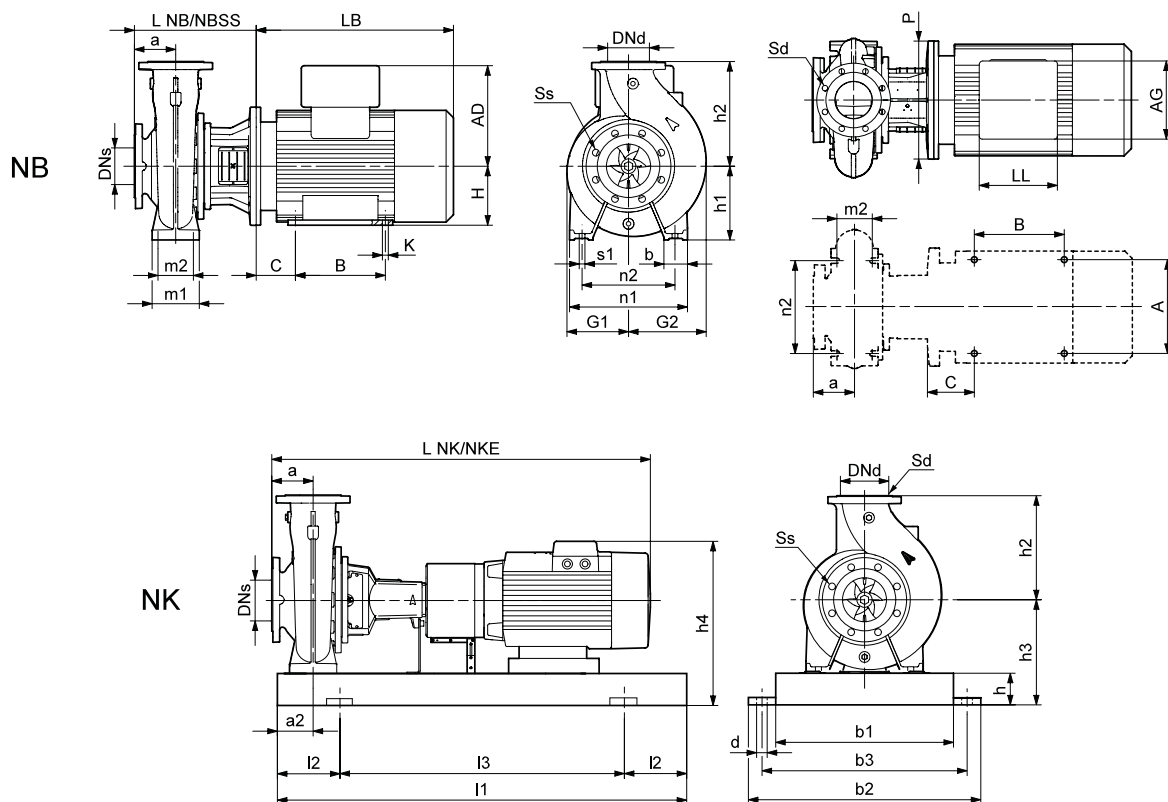
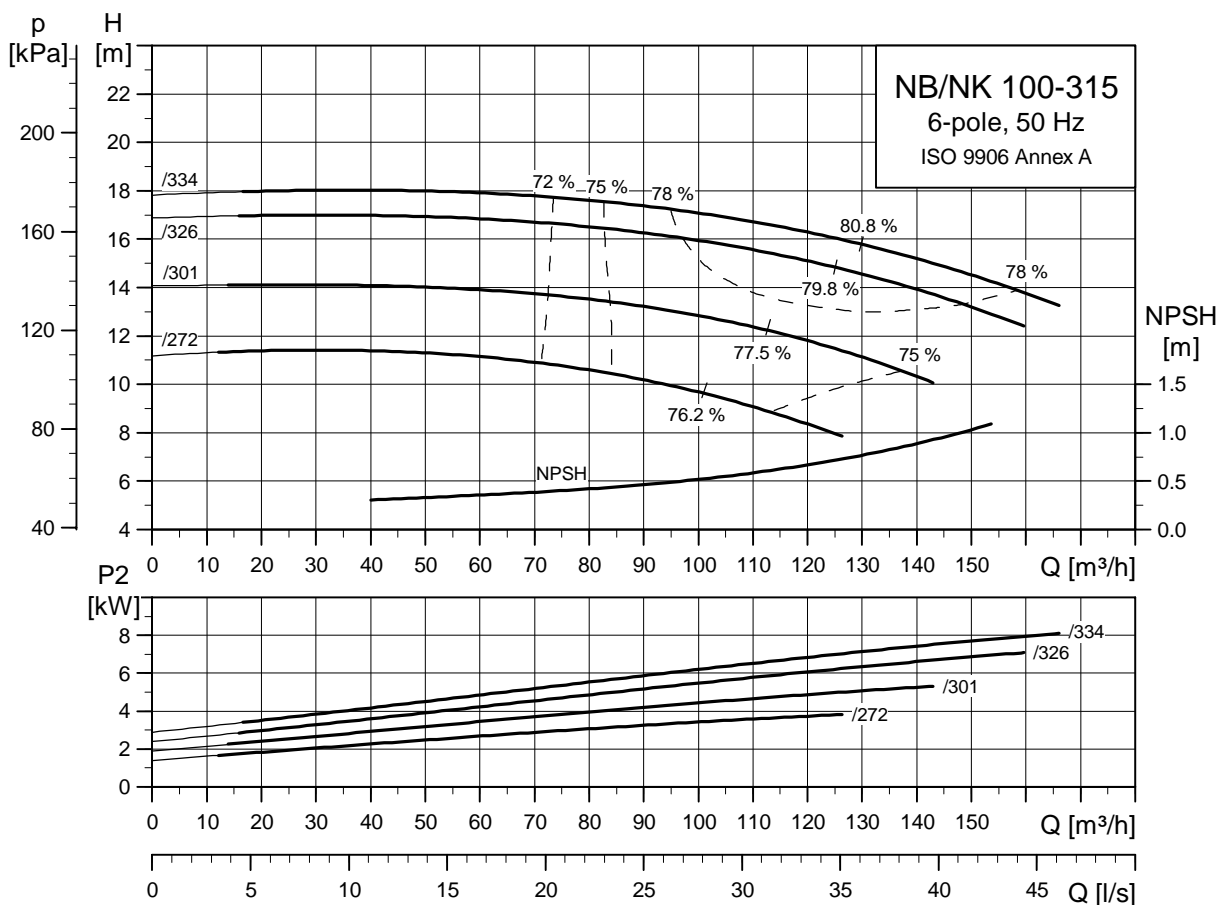
| Tipo de bomba | | 100-250/220 | 100-250/236 | 100-250/259 | 100-250/270 | |
|----------------------------------------|--------------------|--------------|---------------|---------------|---------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 112M | Siemens 132SA | Siemens 132MA | Siemens 132MB | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 2.2 | 3 | 4 | 5.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 280 | 280 | 280 | 280 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| | L NK | [mm] | 1045/1181 | 1067/1203 | 1067/1203 | 1105/1241 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 267/265 | 281/278 | 281/278 | 299/296 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| | l ₁ | [mm] | 1400 | 1400 | 1400 | 1400 |
| | l ₂ | [mm] | 230 | 230 | 230 | 230 |
| | l ₃ | [mm] | 940 | 940 | 940 | 940 |
| | b ₁ | [mm] | 480 | 480 | 480 | 480 |
| | b ₂ | [mm] | 610 | 610 | 610 | 610 |
| | b ₃ | [mm] | 560 | 560 | 560 | 560 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 325 | 325 | 325 | 325 |
| h ₄ ¹⁾ | [mm] | 473/- | 492/- | 492/- | 492/- | |
| Número de bancada | | 7 | 7 | 7 | 7 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 363 | 383 | 383 | 383 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 225 | 225 | 225 | 225 |
| | G ₁ | [mm] | 188 | 188 | 188 | 188 |
| | G ₂ | [mm] | 224 | 224 | 224 | 224 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 371/- | 373/- | 373/- | 411/- |
| | AD ¹⁾ | [mm] | 148/- | 167/- | 167/- | 167/- |
| | AG ¹⁾ | [mm] | 120/- | 140/- | 140/- | 140/- |
| | LL ¹⁾ | [mm] | 120/- | 140/- | 140/- | 140/- |
| | P | [mm] | 250 | 300 | 300 | 300 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 132/- | 150/- | 150/- | 168/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-315
6 polos



TM03 5162 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 100-315/272 | 100-315/301 | 100-315/326 | 100-315/334 | |
|----------------------------------------|------------------------------|---------------|---------------|--------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 132MA | Siemens 132MB | Siemens 160M | Siemens 160L | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 4 | 5.5 | 7.5 | 11 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 315 | 315 | 315 | 315 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1067/1203 | 1105/1241 | 1202/1338 | 1242/1378 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 303/300 | 321/318 | 356/351 | 363/358 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1400 | 1400 | 1400 | 1400 |
| | l ₂ | [mm] | 230 | 230 | 230 | 230 |
| | l ₃ | [mm] | 940 | 940 | 940 | 940 |
| | b ₁ | [mm] | 480 | 480 | 480 | 480 |
| | b ₂ | [mm] | 610 | 610 | 610 | 610 |
| | b ₃ | [mm] | 560 | 560 | 560 | 560 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 350 | 350 | 350 | 350 |
| | h ₄ ¹⁾ | [mm] | 517/- | 517/- | 547/- | 547/- |
| Número de bancada | | 7 | 7 | 7 | 7 | |
| Datos NB | Diseño | | A | A | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 383 | 383 | 413 | 413 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 208 | 208 | 208 | 208 |
| | G ₂ | [mm] | 264 | 264 | 264 | 264 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | - | - | 160 | 160 |
| | LB ¹⁾ | [mm] | 373/- | 411/- | 478/- | 518/- |
| | AD ¹⁾ | [mm] | 167/- | 167/- | 197/- | 197/- |
| | AG ¹⁾ | [mm] | 140/- | 140/- | 165/- | 165/- |
| | LL ¹⁾ | [mm] | 140/- | 140/- | 165/- | 165/- |
| | P | [mm] | 300 | 300 | 350 | 350 |
| | C | [mm] | - | - | 108 | 108 |
| | B | [mm] | - | - | 210 | 254 |
| A | [mm] | - | - | 254 | 254 | |
| K | [mm] | - | - | 15 | 15 | |
| Peso NB ¹⁾ | [kg] | 171/- | 189/- | 225/- | 232/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

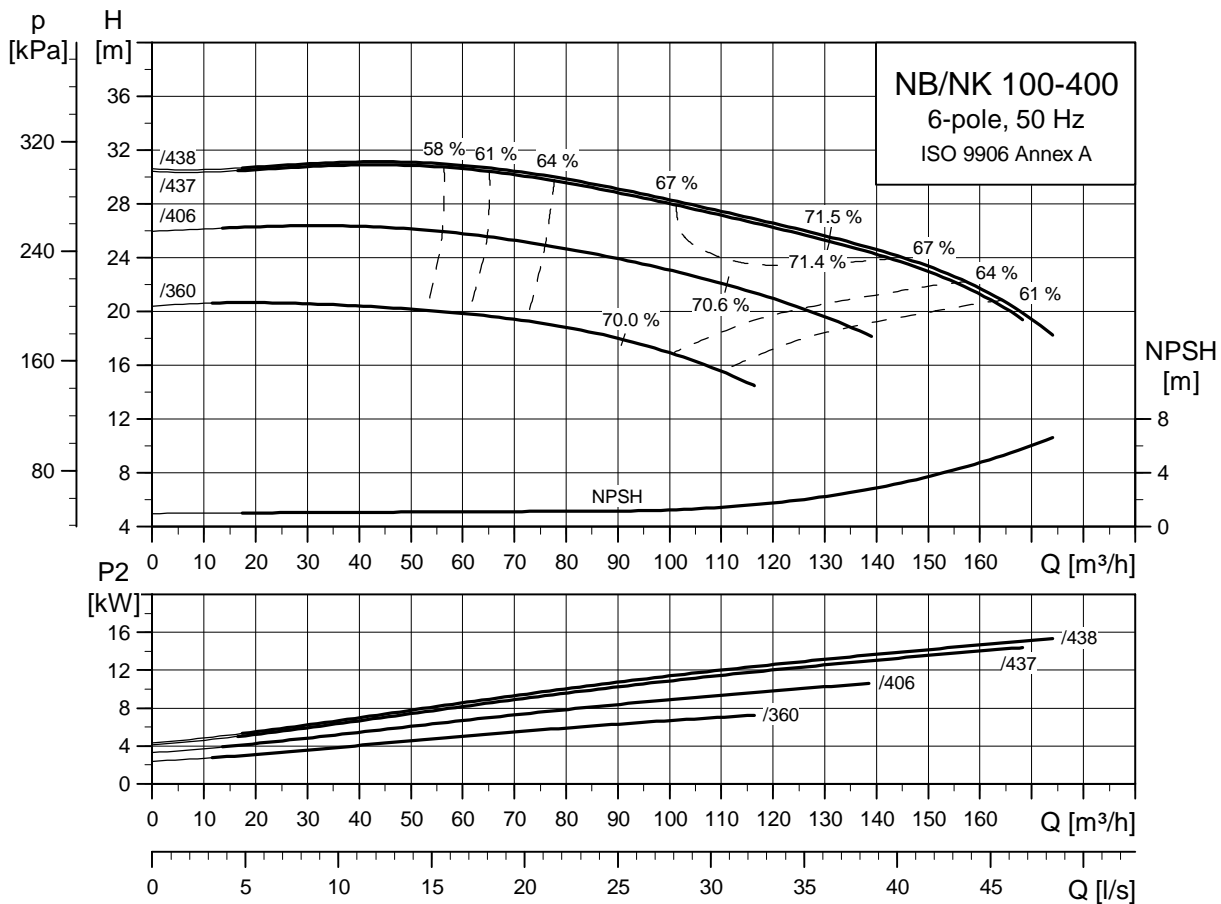
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

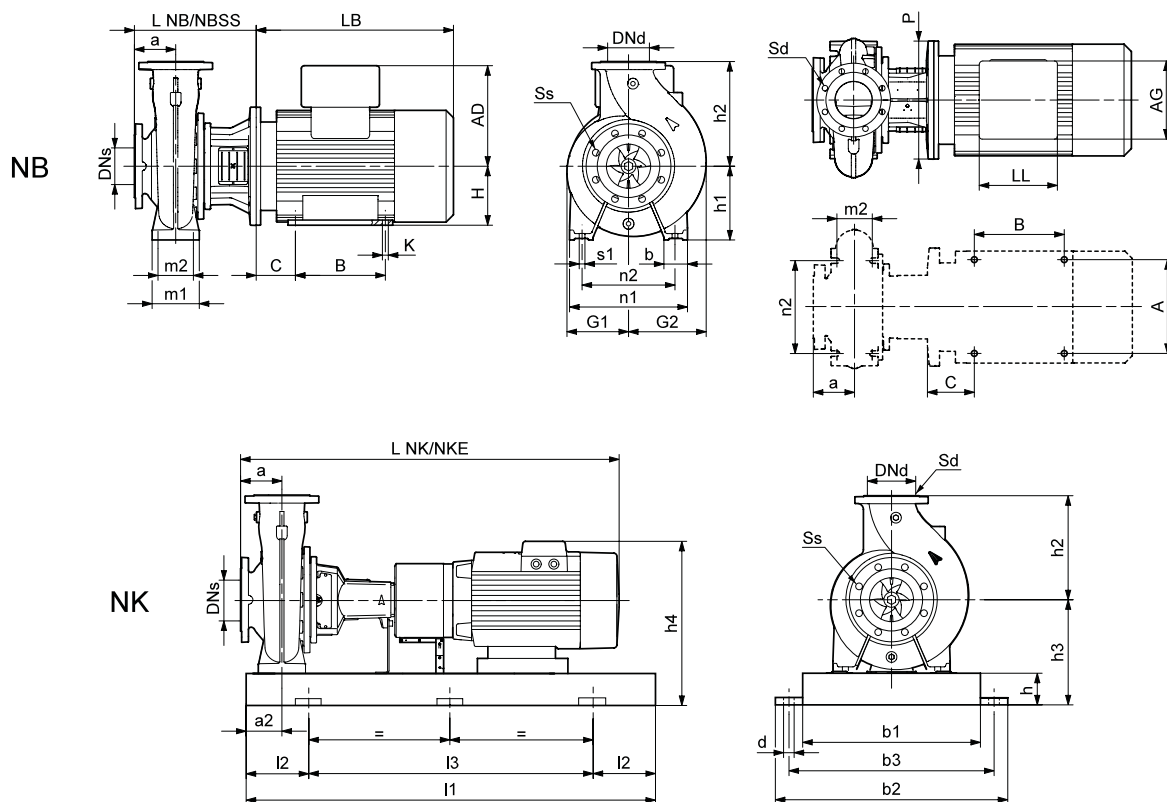
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 100-400
6 polos



TM03 5163 4106



TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 100-400/360 | 100-400/406 | 100-400/437 | 100-400/438 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160M | Siemens 160L | Siemens 180L | Siemens 200LA | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 7.5 | 11 | 15 | 18.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 125 | 125 | 125 | 125 |
| | DNd | [mm] | 100 | 100 | 100 | 100 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 355 | 355 | 355 | 355 |
| | Ss | | 8x19 | 8x19 | 8x19 | 8x19 |
| Datos generales NK estándar/espaciador | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| | L NK | [mm] | 1262/1398 | 1302/1438 | 1386/1522 | 1443/1579 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 518/513 | 525/520 | 569/561 | 612/607 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| | l ₁ | [mm] | 1800 | 1800 | 1800 | 1800 |
| | l ₂ | [mm] | 300 | 300 | 300 | 300 |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1200 |
| | b ₁ | [mm] | 600 | 600 | 600 | 600 |
| | b ₂ | [mm] | 730 | 730 | 730 | 730 |
| | b ₃ | [mm] | 670 | 670 | 670 | 670 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| Datos NB | h ₃ | [mm] | 380 | 380 | 383 | 380 |
| | h ₄ ¹⁾ | [mm] | 577/- | 577/- | 641/- | 685/- |
| | Número de bancada | | 9 | 9 | 9 | 9 |
| | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 411 | 411 | 411 | 411 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 280 | 280 | 280 | 280 |
| | G ₁ | [mm] | 272 | 272 | 272 | 272 |
| | G ₂ | [mm] | 298 | 298 | 298 | 298 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 |
| Datos NB | m ₂ | [mm] | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 500 | 500 | 500 | 500 |
| | n ₂ | [mm] | 400 | 400 | 400 | 400 |
| | b | [mm] | 100 | 100 | 100 | 100 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 |
| | H | [mm] | 160 | 160 | 180 | 200 |
| | LB ¹⁾ | [mm] | 478/- | 518/- | 602/- | 659/- |
| | AD ¹⁾ | [mm] | 197/- | 197/- | 258/- | 305/- |
| | AG ¹⁾ | [mm] | 165/- | 165/- | 152/- | 260/- |
| | LL ¹⁾ | [mm] | 165/- | 165/- | 132/- | 192/- |
| | P | [mm] | 350 | 350 | 350 | 400 |
| | C | [mm] | 108 | 108 | 121 | 133 |
| | B | [mm] | 210 | 254 | 279 | 305 |
| | A | [mm] | 254 | 254 | 279 | 318 |
| | K | [mm] | 15 | 15 | 15 | 19 |
| Peso NB ¹⁾ | [kg] | 311/- | 318/- | 357/- | 405/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

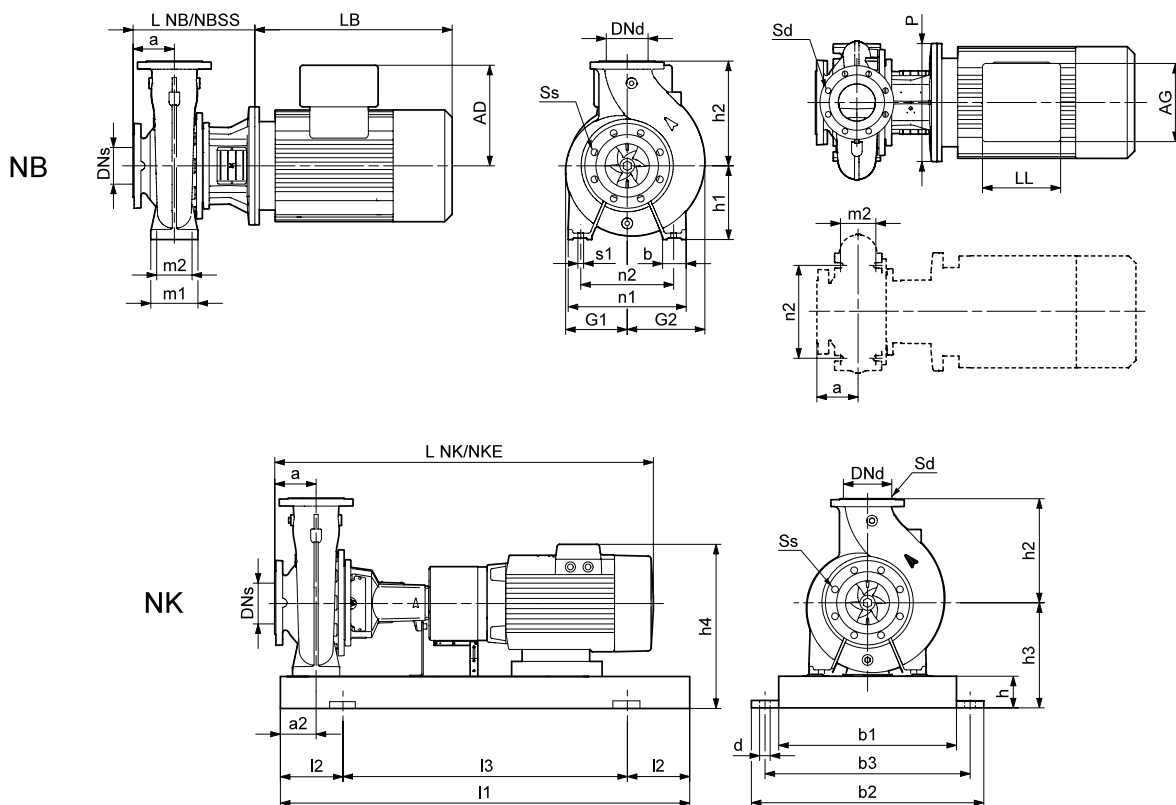
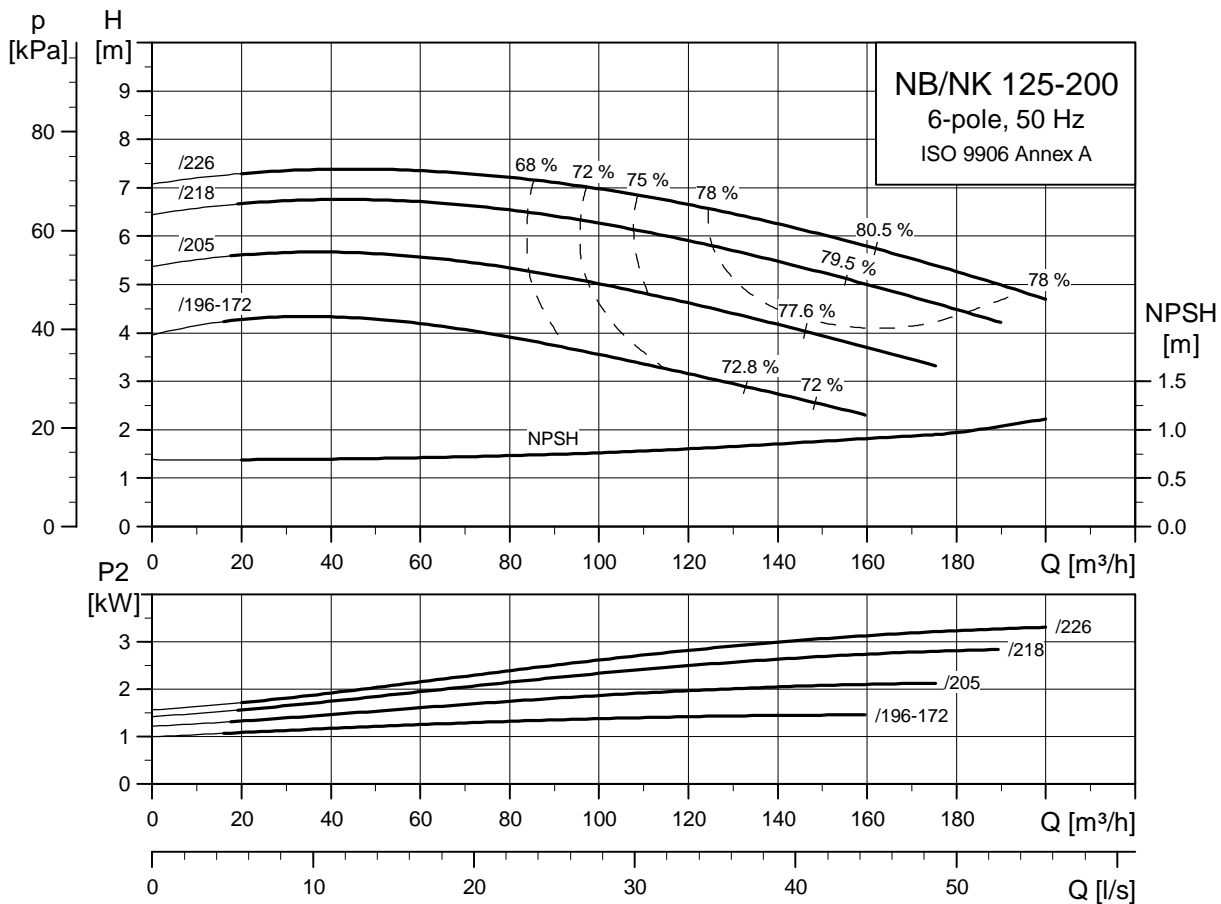
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-200
6 polos



TM03 5164 4106

TM03 4180 1806

TM03 6005 4106

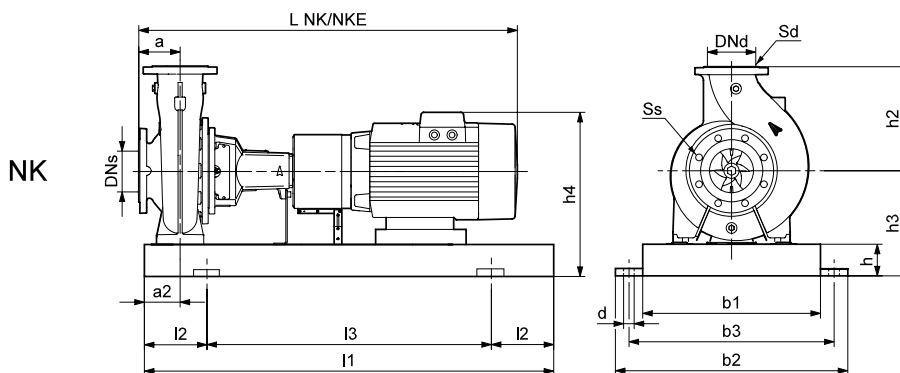
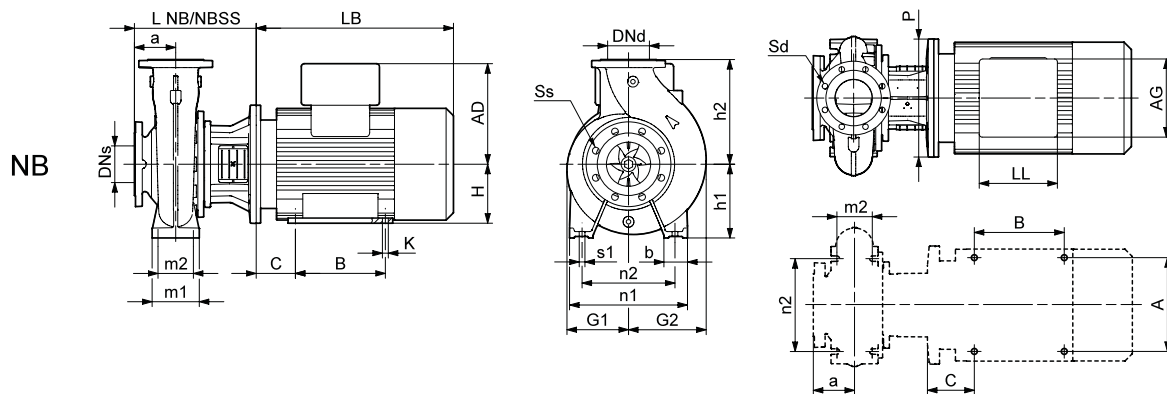
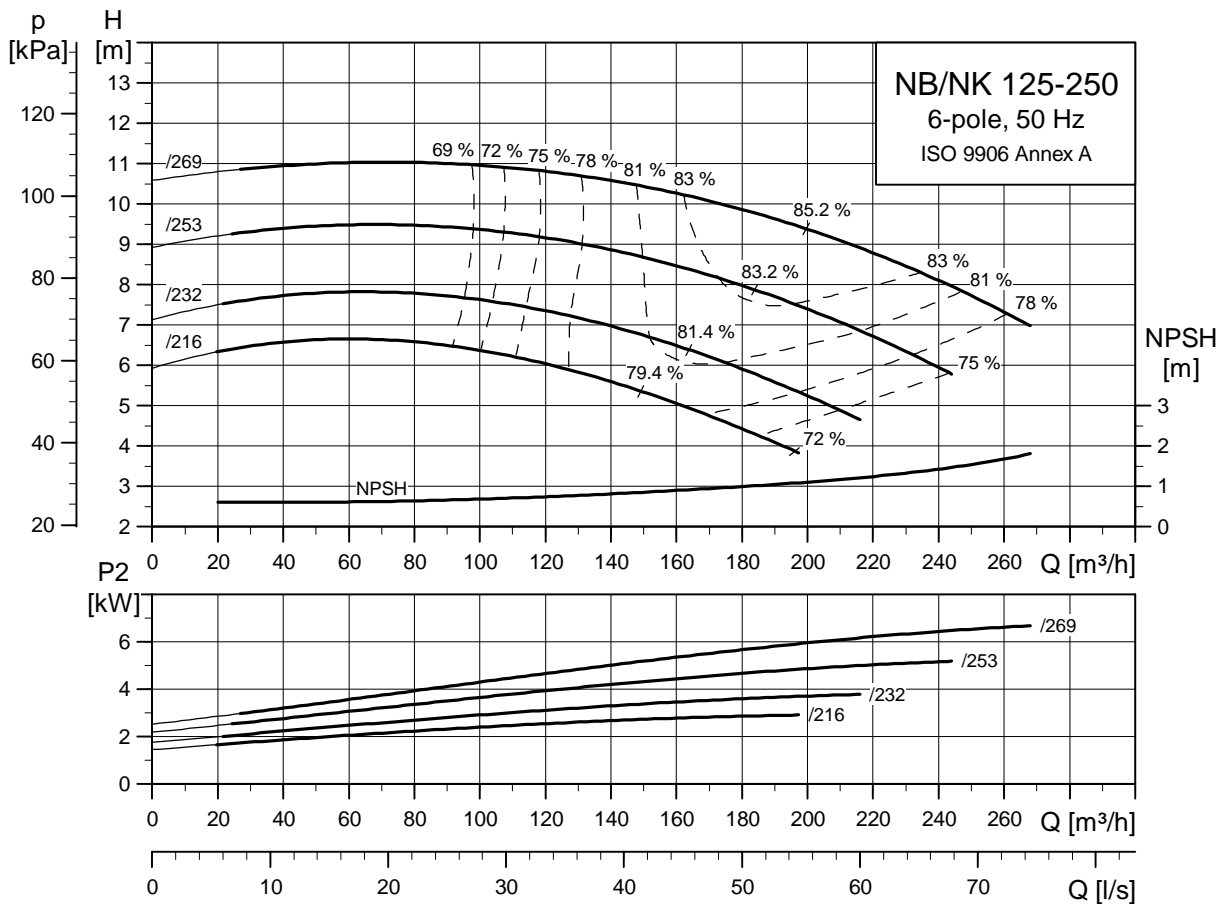
| Tipo de bomba | | 125-200/196-172 | 125-200/205 | 125-200/218 | 125-200/226 | |
|----------------------------------------|------------------------------|-----------------|--------------|---------------|---------------|-----------|
| Tipo de motor | Motor de gama alta | Siemens 100L | Siemens 112M | Siemens 132SA | Siemens 132MA | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 1.5 | 2.2 | 3 | 4 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 315 | 315 | 315 | 315 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1021/1157 | 1045/1181 | 1067/1203 | 1067/1203 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 273/271 | 291/289 | 297/294 | 297/294 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1400 | 1400 | 1400 | 1400 |
| | l ₂ | [mm] | 230 | 230 | 230 | 230 |
| | l ₃ | [mm] | 940 | 940 | 940 | 940 |
| | b ₁ | [mm] | 480 | 480 | 480 | 480 |
| | b ₂ | [mm] | 610 | 610 | 610 | 610 |
| | b ₃ | [mm] | 560 | 560 | 560 | 560 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 350 | 350 | 350 | 350 |
| | h ₄ ¹⁾ | [mm] | 485/- | 498/- | 517/- | 517/- |
| Número de bancada | | 7 | 7 | 7 | 7 | |
| Datos NB | Diseño | | A | A | A | A |
| | L NB | [mm] | 363 | 363 | 383 | 383 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 183 | 183 | 183 | 183 |
| | G ₂ | [mm] | 234 | 234 | 234 | 234 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | - | - | - | - |
| | LB ¹⁾ | [mm] | 347/- | 371/- | 373/- | 373/- |
| | AD ¹⁾ | [mm] | 135/- | 148/- | 167/- | 167/- |
| | AG ¹⁾ | [mm] | 120/- | 120/- | 140/- | 140/- |
| | LL ¹⁾ | [mm] | 120/- | 120/- | 140/- | 140/- |
| | P | [mm] | 250 | 250 | 300 | 300 |
| | C | [mm] | - | - | - | - |
| | B | [mm] | - | - | - | - |
| A | [mm] | - | - | - | - | |
| K | [mm] | - | - | - | - | |
| Peso NB ¹⁾ | [kg] | 135/- | 147/- | 165/- | 165/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-250
6 polos



TM03 5165 4106

TM03 4182 1806

TM03 6005 4106

| Tipo de bomba | | 125-250/216 | 125-250/232 | 125-250/253 | 125-250/269 | |
|----------------------------------------|--------------------|---------------|---------------|---------------|--------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 132SA | Siemens 132MA | Siemens 132MB | Siemens 160M | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 3 | 4 | 5.5 | 7.5 |
| | PN | [bar] | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 |
| | a | [mm] | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 355 | 355 | 355 | 355 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 |
| Datos generales NK estándar/espaciador | Sd | | 8x19 | 8x19 | 8x19 | 8x19 |
| | L NK | [mm] | 1067/1203 | 1067/1203 | 1105/1241 | 1202/1338 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 306/303 | 306/303 | 324/321 | 359/354 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- |
| | l ₁ | [mm] | 1400 | 1400 | 1400 | 1400 |
| | l ₂ | [mm] | 230 | 230 | 230 | 230 |
| | l ₃ | [mm] | 940 | 940 | 940 | 940 |
| | b ₁ | [mm] | 480 | 480 | 480 | 480 |
| | b ₂ | [mm] | 610 | 610 | 610 | 610 |
| | b ₃ | [mm] | 560 | 560 | 560 | 560 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 90 | 90 | 90 | 90 |
| | h | [mm] | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 350 | 350 | 350 | 350 |
| h ₄ ¹⁾ | [mm] | 517/- | 517/- | 517/- | 547/- | |
| Número de bancada | | 7 | 7 | 7 | 7 | |
| Datos NB | Diseño | | A | A | A | C ²⁾ |
| | L NB | [mm] | 383 | 383 | 383 | 413 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 250 | 250 | 250 | 250 |
| | G ₁ | [mm] | 208 | 208 | 208 | 208 |
| | G ₂ | [mm] | 264 | 264 | 264 | 264 |
| | m ₁ | [mm] | 160 | 160 | 160 | 160 |
| | m ₂ | [mm] | 120 | 120 | 120 | 120 |
| | n ₁ | [mm] | 400 | 400 | 400 | 400 |
| | n ₂ | [mm] | 315 | 315 | 315 | 315 |
| | b | [mm] | 80 | 80 | 80 | 80 |
| | s ₁ | [mm] | M16 | M16 | M16 | M16 |
| | H | [mm] | - | - | - | 160 |
| | LB ¹⁾ | [mm] | 373/- | 373/- | 411/- | 478/- |
| | AD ¹⁾ | [mm] | 167/- | 167/- | 167/- | 197/- |
| | AG ¹⁾ | [mm] | 140/- | 140/- | 140/- | 165/- |
| | LL ¹⁾ | [mm] | 140/- | 140/- | 140/- | 165/- |
| | P | [mm] | 300 | 300 | 300 | 350 |
| | C | [mm] | - | - | - | 108 |
| | B | [mm] | - | - | - | 210 |
| A | [mm] | - | - | - | 254 | |
| K | [mm] | - | - | - | 15 | |
| Peso NB ¹⁾ | [kg] | 174/- | 174/- | 192/- | 228/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

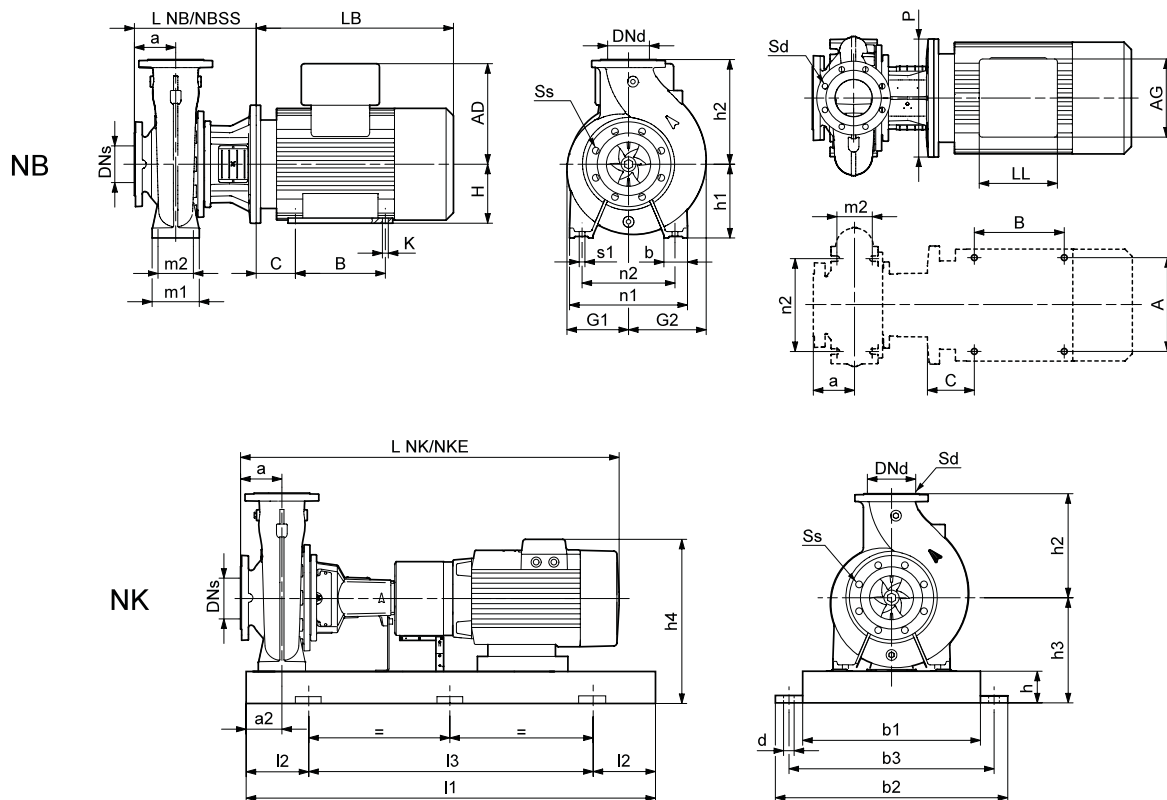
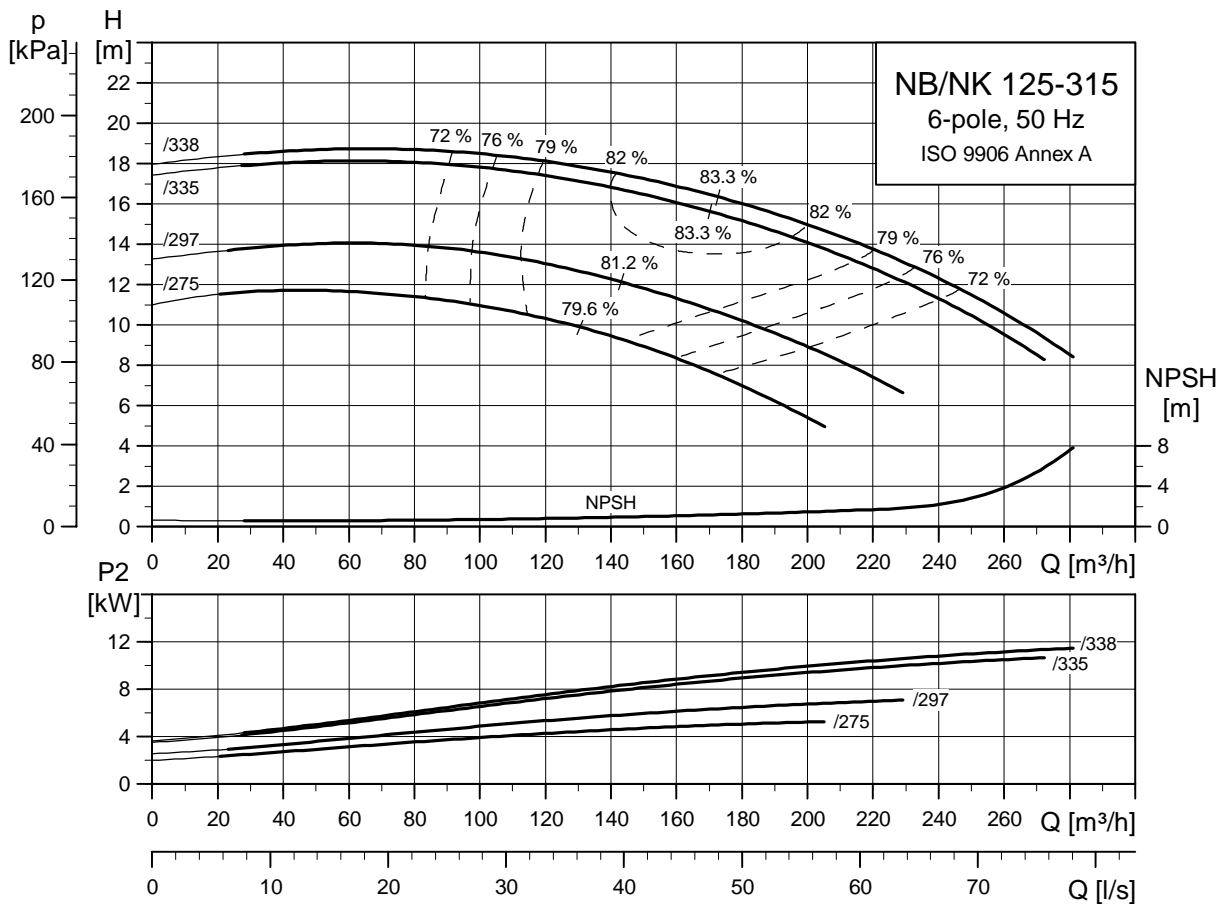
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-315
6 polos



TM03 5166 4106

TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 125-315/275 | 125-315/297 | 125-315/335 | 125-315/338 | | |
|----------------------------------------|------------------------------|------------------|--------------|-----------------|-----------------|-----------------|-------|
| Tipo de motor | Motor de gama alta | Siemens 132MB | Siemens 160M | Siemens 160L | Siemens 180L | | |
| | Motor eléctrico | - | - | - | - | | |
| Datos generales NB/NK | P ₂ | [kW] | 5.5 | 7.5 | 11 | 15 | |
| | PN | [bar] | 16 | 16 | 16 | 16 | |
| | DNs | [mm] | 150 | 150 | 150 | 150 | |
| | DNd | [mm] | 125 | 125 | 125 | 125 | |
| | a | [mm] | 140 | 140 | 140 | 140 | |
| | h ₂ | [mm] | 355 | 355 | 355 | 355 | |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | |
| | Sd | | 8x19 | 8x19 | 8x19 | | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1165/1301 | 1262/1398 | 1302/1438 | 1386/1522 | |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | |
| | Peso NK | [kg] | 452/449 | 478/473 | 485/480 | 529/521 | |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 1800 | 1800 | 1800 | 1800 | |
| | l ₂ | [mm] | 300 | 300 | 300 | 300 | |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1200 | |
| | b ₁ | [mm] | 600 | 600 | 600 | 600 | |
| | b ₂ | [mm] | 730 | 730 | 730 | 730 | |
| | b ₃ | [mm] | 670 | 670 | 670 | 670 | |
| | d | [mm] | 28 | 28 | 28 | 28 | |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | |
| | h | [mm] | 100 | 100 | 100 | 100 | |
| | h ₃ | [mm] | 385 | 380 | 380 | 383 | |
| | h ₄ ¹⁾ | [mm] | 552/- | 577/- | 577/- | 641/- | |
| | Número de bancada | | 9 | 9 | 9 | 9 | |
| Datos NB | Diseño | | A | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 381 | 411 | 411 | 411 | |
| | L NB SS | [mm] | - | - | - | - | |
| | h ₁ | [mm] | 280 | 280 | 280 | 280 | |
| | G ₁ | [mm] | 231 | 231 | 231 | 231 | |
| | G ₂ | [mm] | 268 | 268 | 268 | 268 | |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | |
| | n ₁ | [mm] | 500 | 500 | 500 | 500 | |
| | n ₂ | [mm] | 400 | 400 | 400 | 400 | |
| | b | [mm] | 100 | 100 | 100 | 100 | |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | |
| | H | [mm] | - | 160 | 160 | 180 | |
| | | LB ¹⁾ | [mm] | 411/- | 478/- | 518/- | 602/- |
| | | AD ¹⁾ | [mm] | 167/- | 197/- | 197/- | 258/- |
| | | AG ¹⁾ | [mm] | 140/- | 165/- | 165/- | 152/- |
| | | LL ¹⁾ | [mm] | 140/- | 165/- | 165/- | 132/- |
| | | P | [mm] | 300 | 350 | 350 | 350 |
| | | C | [mm] | - | 108 | 108 | 121 |
| | | B | [mm] | - | 210 | 254 | 279 |
| | A | [mm] | - | 254 | 254 | 279 | |
| | K | [mm] | - | 15 | 15 | 15 | |
| | Peso NB ¹⁾ | [kg] | 234/- | 271/- | 278/- | 317/- | |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

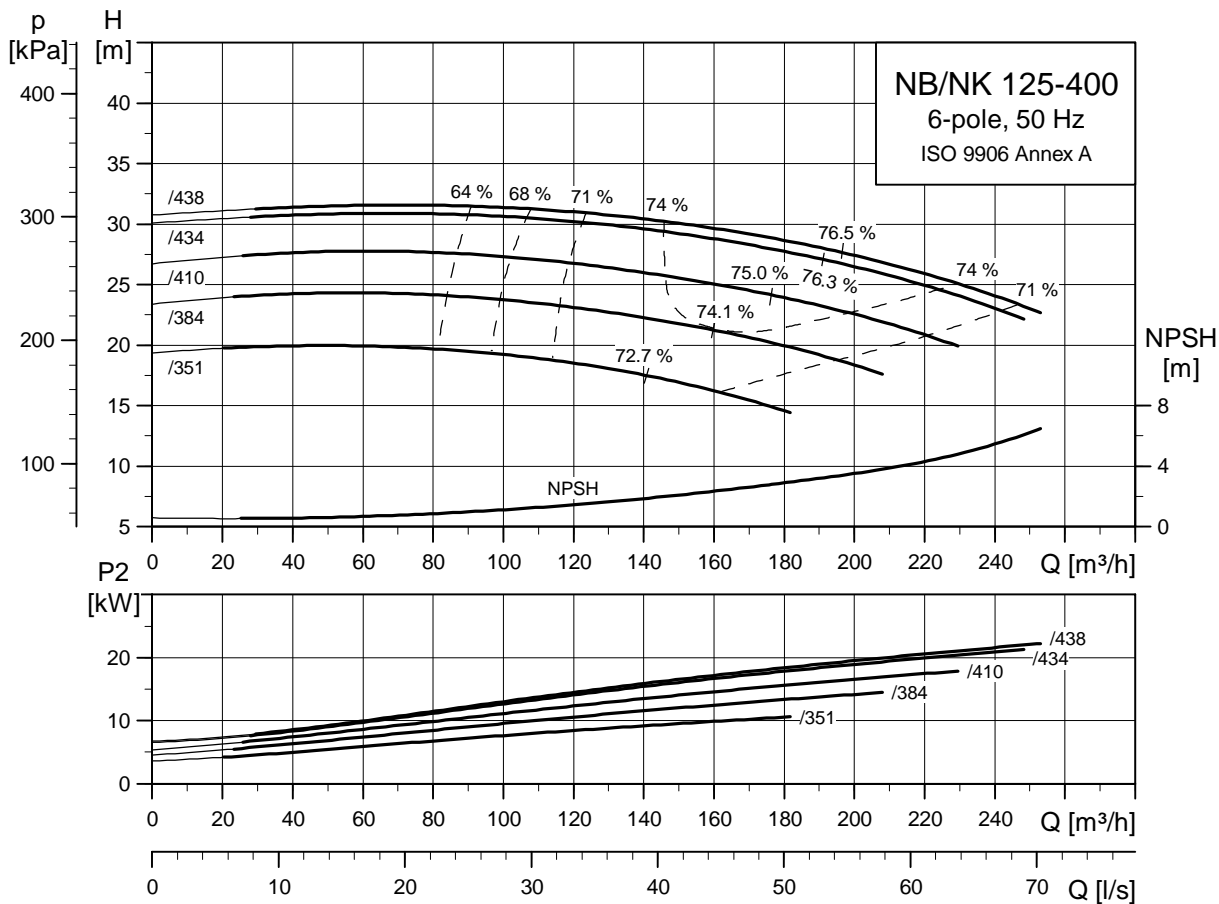
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

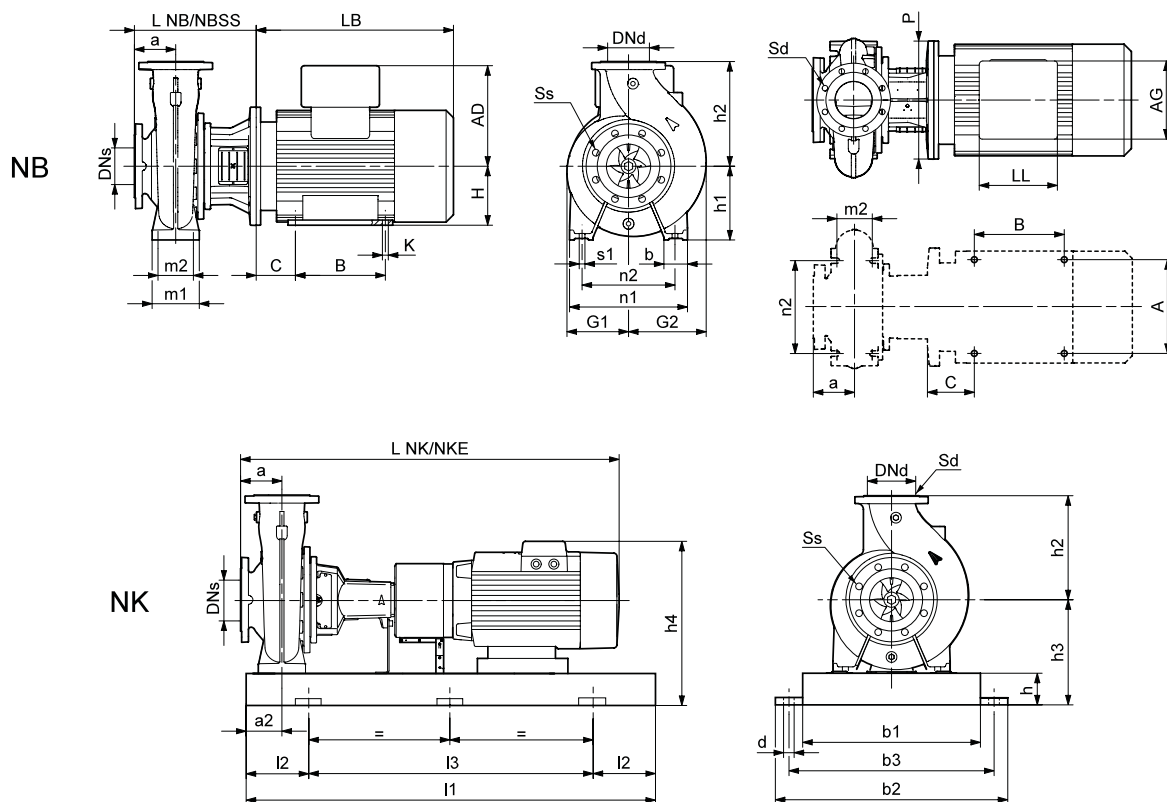
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-400
6 polos



TM03 5167 4106



TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 125-400/351 | 125-400/384 | 125-400/410 | 125-400/434 | 125-400/438 | |
|----------------------------------------|--------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160L | Siemens 180L | Siemens 200LA | Siemens 200LB | Siemens 225M | |
| | Motor eléctrico | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 11 | 15 | 18.5 | 22 | 30 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 | 125 |
| | a | [mm] | 140 | 140 | 140 | 140 | 140 |
| | h ₂ | [mm] | 400 | 400 | 400 | 400 | 400 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1302/1438 | 1386/1522 | 1443/1579 | 1443/1579 | 1523/1659 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 551/546 | 591/583 | 629/624 | 660/655 | 764/759 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1800 | 1800 | 1800 | 1800 | 1800 |
| | l ₂ | [mm] | 300 | 300 | 300 | 300 | 300 |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1200 | 1200 |
| | b ₁ | [mm] | 600 | 600 | 600 | 600 | 600 |
| | b ₂ | [mm] | 730 | 730 | 730 | 730 | 730 |
| | b ₃ | [mm] | 670 | 670 | 670 | 670 | 670 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 |
| | h | [mm] | 100 | 100 | 100 | 100 | 100 |
| | h ₃ | [mm] | 415 | 415 | 415 | 415 | 415 |
| h ₄ ¹⁾ | [mm] | 612/- | 673/- | 720/- | 720/- | 740/- | |
| Número de bancada | | 9 | 9 | 9 | 9 | 9 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 411 | 411 | 411 | 411 | 441 |
| | L NB SS | [mm] | - | - | - | - | - |
| | h ₁ | [mm] | 315 | 315 | 315 | 315 | 315 |
| | G ₁ | [mm] | 284 | 284 | 284 | 284 | 284 |
| | G ₂ | [mm] | 320 | 320 | 320 | 320 | 320 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 500 | 500 | 500 | 500 | 500 |
| | n ₂ | [mm] | 400 | 400 | 400 | 400 | 400 |
| | b | [mm] | 100 | 100 | 100 | 100 | 100 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 |
| | H | [mm] | 160 | 180 | 200 | 200 | 225 |
| | LB ¹⁾ | [mm] | 518/- | 602/- | 659/- | 659/- | 709/- |
| | AD ¹⁾ | [mm] | 197/- | 258/- | 305/- | 305/- | 325/- |
| | AG ¹⁾ | [mm] | 165/- | 152/- | 260/- | 260/- | 260/- |
| | LL ¹⁾ | [mm] | 165/- | 132/- | 192/- | 192/- | 192/- |
| | P | [mm] | 350 | 350 | 400 | 400 | 450 |
| | C | [mm] | 108 | 121 | 133 | 133 | 149 |
| | B | [mm] | 254 | 279 | 305 | 305 | 286 |
| A | [mm] | 254 | 279 | 318 | 318 | 356 | |
| K | [mm] | 15 | 15 | 19 | 19 | 19 | |
| Peso NB ¹⁾ | [kg] | 330/- | 368/- | 416/- | 447/- | 566/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

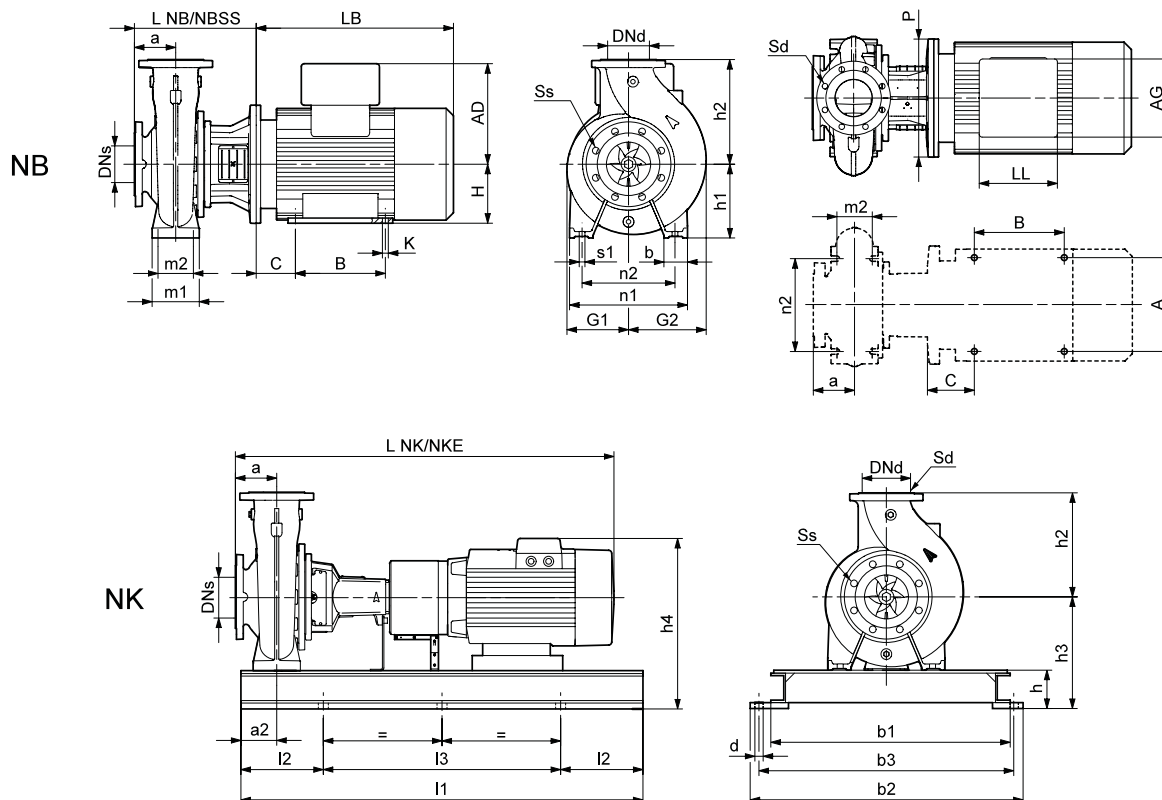
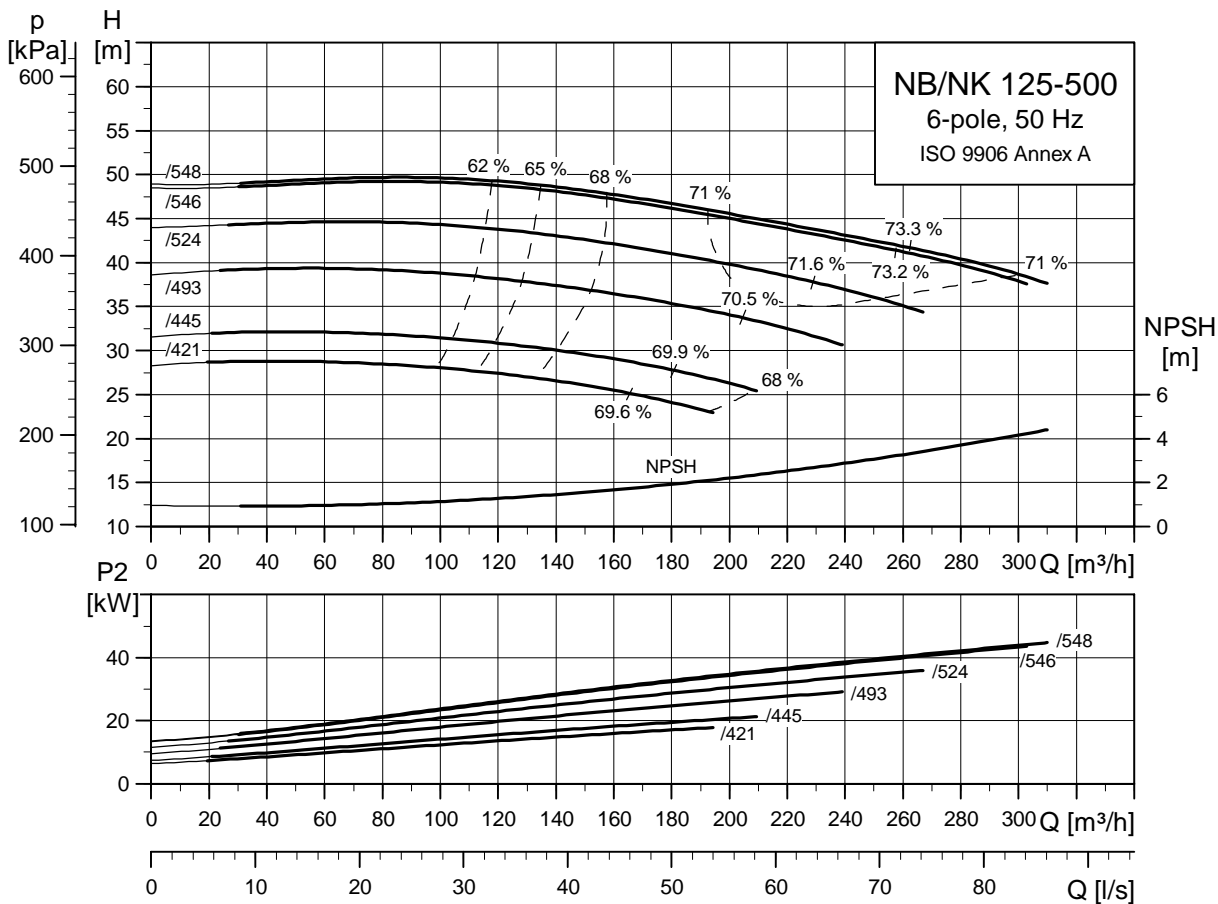
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 125-500
6 polos



TM03 5168 4106

TM03 4182 1806

TM03 4051 1806

| Tipo de bomba | | 125-500/421 | 125-500/445 | 125-500/493 | 125-500/524 | 125-500/546 | 125-500/548 | |
|----------------------------------------|------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|
| Motor de gama alta | | Siemens 200LA | Siemens 200LB | Siemens 225M | Siemens 250M | Siemens 280S | Siemens 280M | |
| Tipo de motor | Motor eléctrico | - | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 18.5 | 22 | 30 | 37 | 45 | 55 |
| | PN | [bar] | 16 | 16 | 16 | 16 | 16 | 16 |
| | DNs | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| | DNd | [mm] | 125 | 125 | 125 | 125 | 125 | 125 |
| | a | [mm] | 180 | 180 | 180 | 180 | 180 | 180 |
| | h ₂ | [mm] | 500 | 500 | 500 | 500 | 500 | 500 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | 8x19 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1623/1799 | 1623/1799 | 1703/1879 | 1741/1917 | 1814/1990 | 1924/2100 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 1093/1092 | 1124/1123 | 1225/1222 | 1311/1308 | 1422/1418 | 1476/1472 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 330 | 330 | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 750 | 750 | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 890 | 890 | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 830 | 830 | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 | 110 |
| | h | [mm] | 130 | 130 | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 530 | 530 | 530 | 530 | 530 | 530 |
| h ₄ ¹⁾ | [mm] | 835/- | 835/- | 855/- | 922/- | 962/- | 962/- | |
| Número de bancada | | 10 | 10 | 10 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 494 | 494 | 524 | 524 | 524 | 524 |
| | L NB SS | [mm] | - | - | - | - | - | - |
| | h ₁ | [mm] | 400 | 400 | 400 | 400 | 400 | 400 |
| | G ₁ | [mm] | 344 | 344 | 344 | 344 | 344 | 344 |
| | G ₂ | [mm] | 377 | 377 | 377 | 377 | 377 | 377 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 625 | 625 | 625 | 625 | 625 | 625 |
| | n ₂ | [mm] | 500 | 500 | 500 | 500 | 500 | 500 |
| | b | [mm] | 125 | 125 | 125 | 125 | 125 | 125 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 | M20 |
| | H | [mm] | 200 | 200 | 225 | 250 | 280 | 280 |
| | LB ¹⁾ | [mm] | 659/- | 659/- | 709/- | 747/- | 820/- | 930/- |
| | AD ¹⁾ | [mm] | 305/- | 305/- | 325/- | 392/- | 432/- | 432/- |
| | AG ¹⁾ | [mm] | 260/- | 260/- | 260/- | 300/- | 300/- | 300/- |
| | LL ¹⁾ | [mm] | 192/- | 192/- | 192/- | 236/- | 236/- | 236/- |
| | P | [mm] | 400 | 400 | 450 | 550 | 550 | 550 |
| | C | [mm] | 133 | 133 | 149 | 168 | 190 | 190 |
| | B | [mm] | 305 | 305 | 286 | 349 | 368 | 419 |
| A | [mm] | 318 | 318 | 356 | 406 | 457 | 457 | |
| K | [mm] | 19 | 19 | 19 | 24 | 24 | 24 | |
| Peso NB ¹⁾ | [kg] | 623/- | 654/- | 774/- | 872/- | 987/- | 1037/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | -/- | |

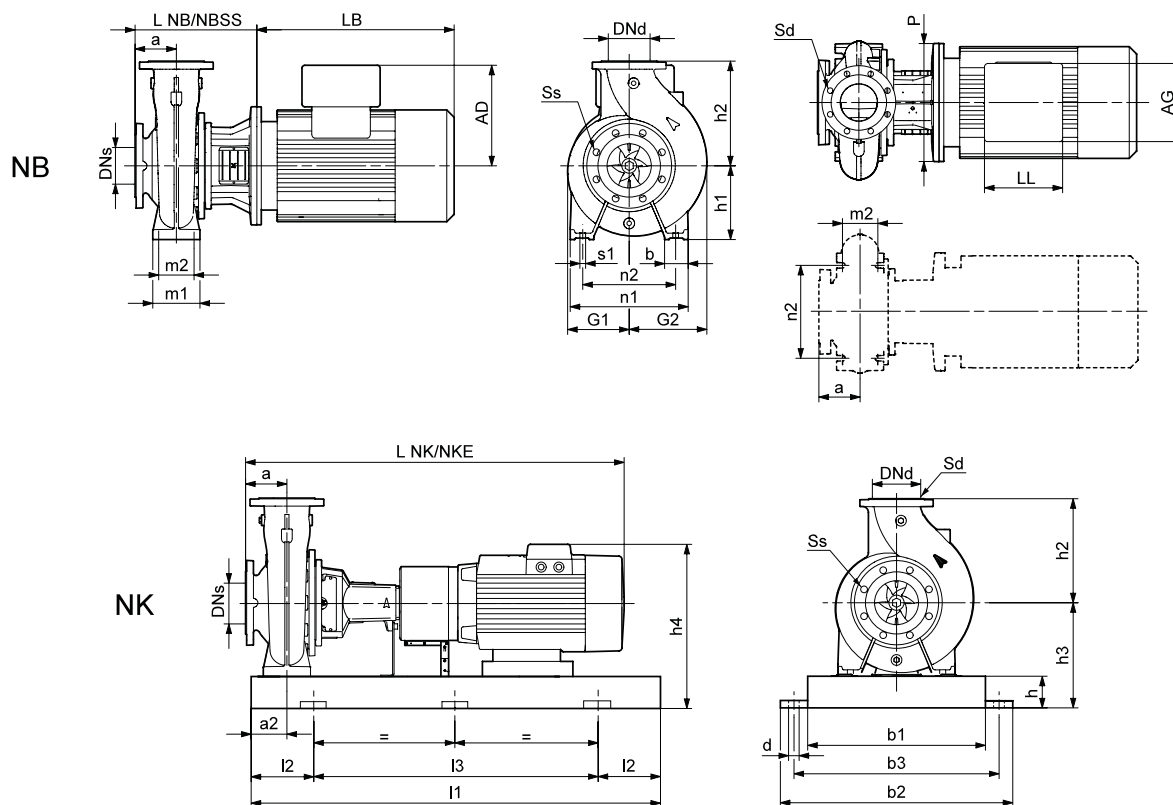
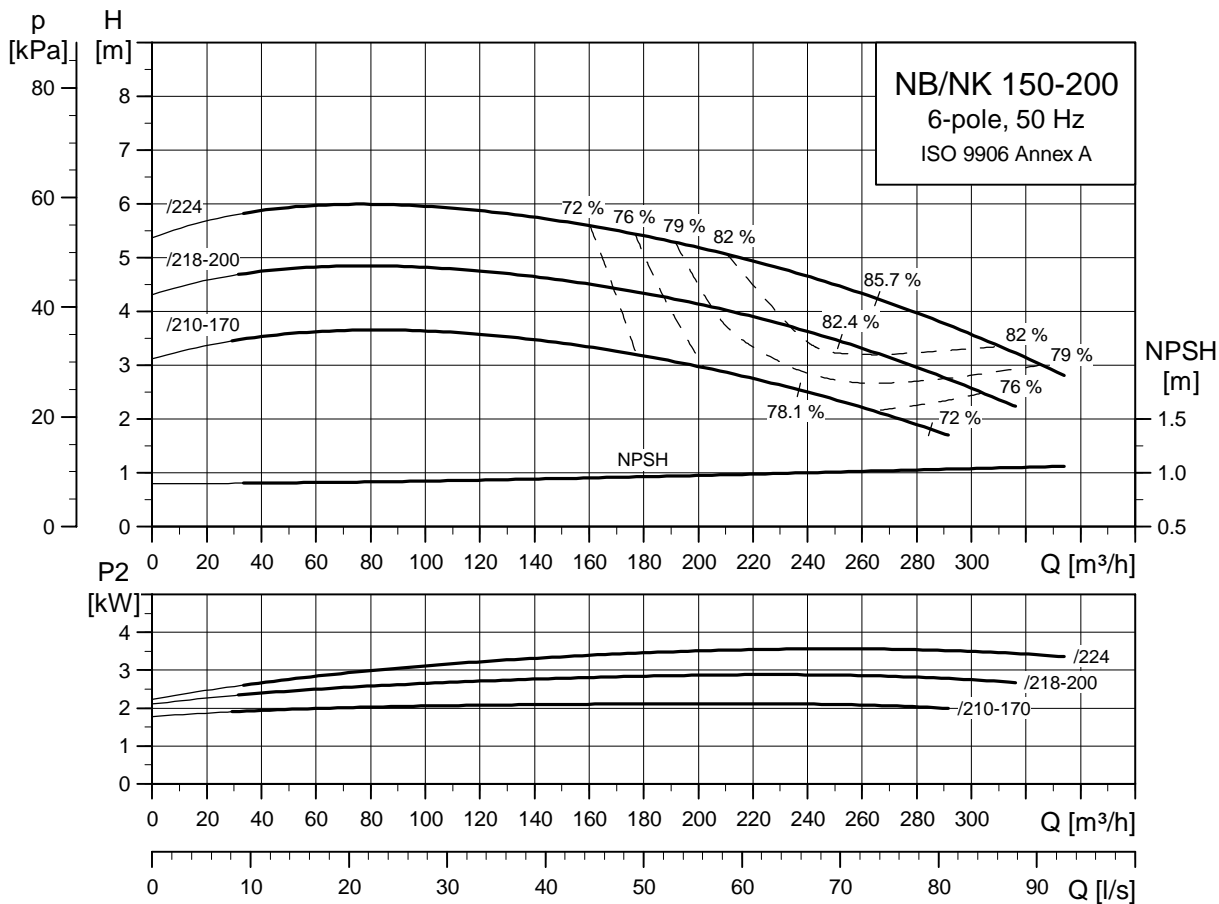
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-200
6 polos



TM03 5169 4106

TM03 4180 1806

TM03 4179 1806

| Tipo de bomba | | 150-200/210-170 | 150-200/218-200 | 150-200/224 | |
|----------------------------------------|--------------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 112M | Siemens 132SA | Siemens 132MA | |
| | Motor eléctrico | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 2.2 | 3 | 4 |
| | PN | [bar] | 10 | 10 | 10 |
| | DNs | [mm] | 200 | 200 | 200 |
| | DNd | [mm] | 150 | 150 | 150 |
| | a | [mm] | 160 | 160 | 160 |
| | h ₂ | [mm] | 400 | 400 | 400 |
| | Ss | | 8x23 | 8x23 | 8x23 |
| Datos generales NK estándar/espaciador | Sd | | 8x23 | 8x23 | |
| | L NK | [mm] | 1065/1201 | 1087/1223 | 1087/1223 |
| | L NKE | [mm] | -/- | -/- | -/- |
| | Peso NK | [kg] | 411/409 | 423/420 | 423/420 |
| | Peso NKE | [kg] | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- |
| | l ₁ | [mm] | 1800 | 1800 | 1800 |
| | l ₂ | [mm] | 300 | 300 | 300 |
| | l ₃ | [mm] | 1200 | 1200 | 1200 |
| | b ₁ | [mm] | 600 | 600 | 600 |
| | b ₂ | [mm] | 730 | 730 | 730 |
| | b ₃ | [mm] | 670 | 670 | 670 |
| | d | [mm] | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 |
| | h | [mm] | 100 | 100 | 100 |
| | h ₃ | [mm] | 380 | 385 | 385 |
| h ₄ ¹⁾ | [mm] | 528/- | 552/- | 552/- | |
| Número de bancada | | 9 | 9 | 9 | |
| Datos NB | Diseño | | A ²⁾ | A ²⁾ | A ²⁾ |
| | L NB | [mm] | 383 | 403 | 403 |
| | L NB SS | [mm] | - | - | - |
| | h ₁ | [mm] | 280 | 280 | 280 |
| | G ₁ | [mm] | 230 | 230 | 230 |
| | G ₂ | [mm] | 319 | 319 | 319 |
| | m ₁ | [mm] | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 |
| | n ₁ | [mm] | 550 | 550 | 550 |
| | n ₂ | [mm] | 450 | 450 | 450 |
| | b | [mm] | 100 | 100 | 100 |
| | s ₁ | [mm] | M20 | M20 | M20 |
| | H | [mm] | - | - | - |
| | LB ¹⁾ | [mm] | 371/- | 373/- | 373/- |
| | AD ¹⁾ | [mm] | 148/- | 167/- | 167/- |
| | AG ¹⁾ | [mm] | 120/- | 140/- | 140/- |
| | LL ¹⁾ | [mm] | 120/- | 140/- | 140/- |
| | P | [mm] | 250 | 300 | 300 |
| | C | [mm] | - | - | - |
| | B | [mm] | - | - | - |
| | A | [mm] | - | - | - |
| K | [mm] | - | - | - | |
| Peso NB ¹⁾ | [kg] | 201/- | 219/- | 219/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | |

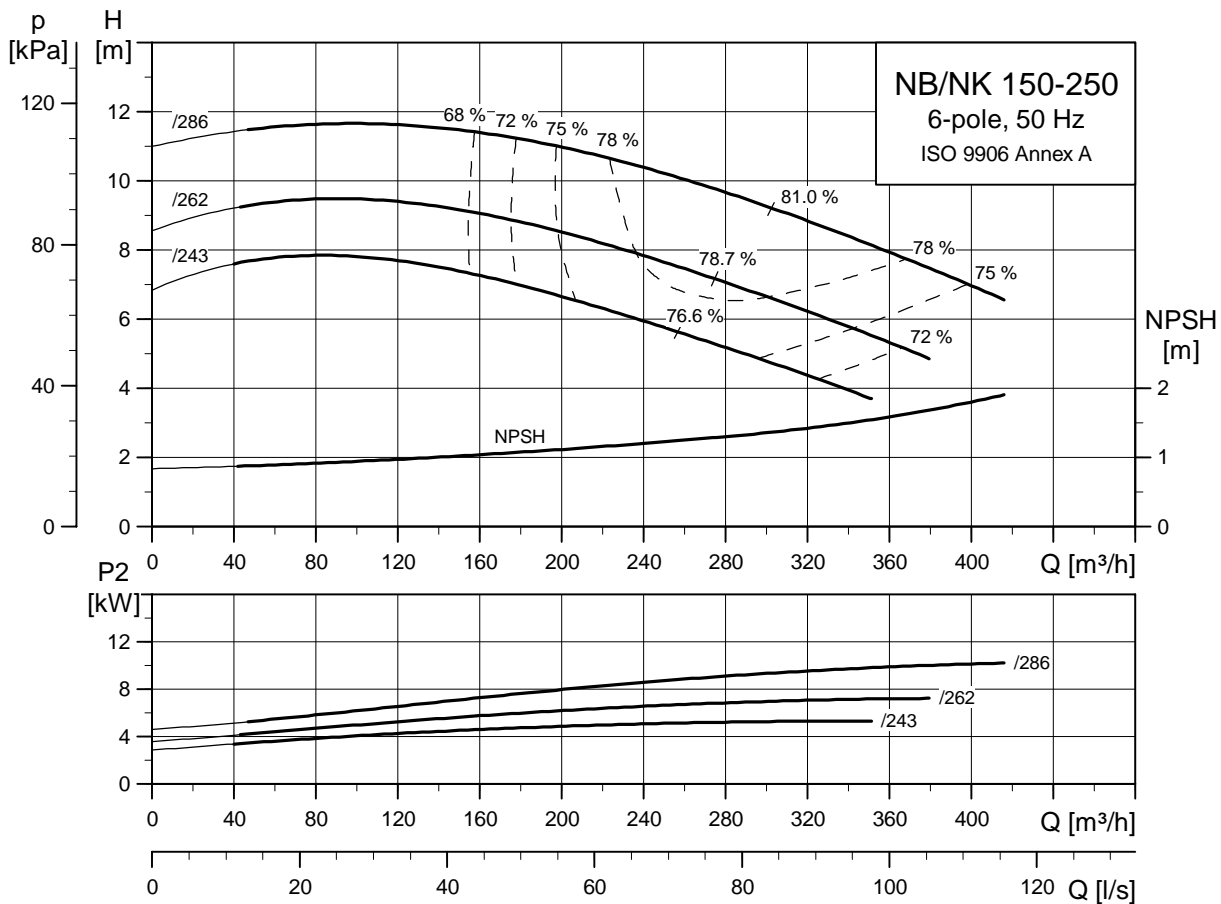
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

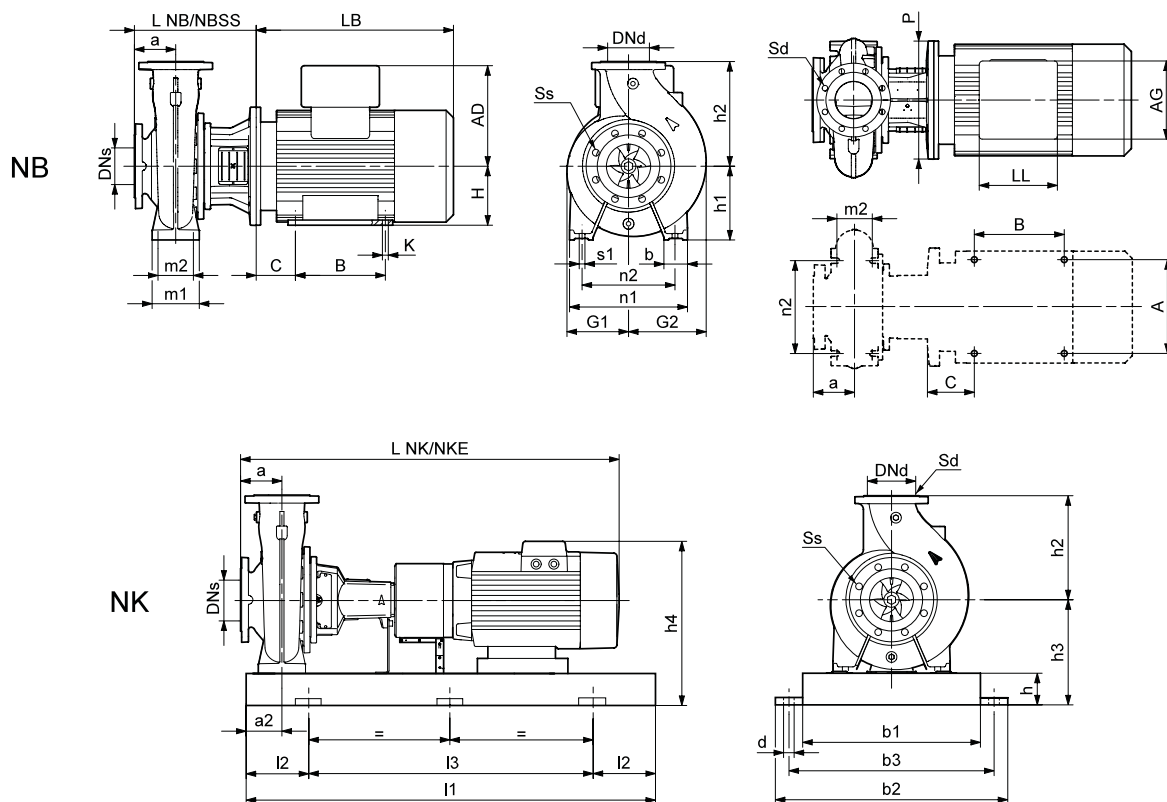
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-250
6 polos



Tm03 5170 4106



TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 150-250/243 | 150-250/262 | 150-250/286 | | |
|----------------------------------------|------------------------------|------------------|--------------|-----------------|-----------------|-------|
| Tipo de motor | Motor de gama alta | Siemens 132MB | Siemens 160M | Siemens 160L | | |
| | Motor eléctrico | - | - | - | | |
| Datos generales NB/NK | P ₂ | [kW] | 5.5 | 7.5 | 11 | |
| | PN | [bar] | 10 | 10 | 10 | |
| | DNs | [mm] | 200 | 200 | 200 | |
| | DNd | [mm] | 150 | 150 | 150 | |
| | a | [mm] | 160 | 160 | 160 | |
| | h ₂ | [mm] | 375 | 375 | 375 | |
| | Ss | | 8x23 | 8x23 | 8x23 | |
| | Sd | | 8x23 | 8x23 | | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1185/1321 | 1282/1418 | 1322/1458 | |
| | L NKE | [mm] | -/- | -/- | -/- | |
| | Peso NK | [kg] | 451/448 | 476/471 | 483/478 | |
| | Peso NKE | [kg] | -/- | -/- | -/- | |
| | Peso NK SS | [kg] | -/- | -/- | -/- | |
| | Peso NKE SS | [kg] | -/- | -/- | -/- | |
| Datos NK | l ₁ | [mm] | 1800 | 1800 | 1800 | |
| | l ₂ | [mm] | 300 | 300 | 300 | |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | |
| | b ₁ | [mm] | 600 | 600 | 600 | |
| | b ₂ | [mm] | 730 | 730 | 730 | |
| | b ₃ | [mm] | 670 | 670 | 670 | |
| | d | [mm] | 28 | 28 | 28 | |
| | a ₂ | [mm] | 110 | 110 | 110 | |
| | h | [mm] | 100 | 100 | 100 | |
| | h ₃ | [mm] | 385 | 380 | 380 | |
| | h ₄ ¹⁾ | [mm] | 552/- | 577/- | 577/- | |
| | Número de bancada | | 9 | 9 | 9 | |
| Datos NB | Diseño | | A | C ²⁾ | C ²⁾ | |
| | L NB | [mm] | 401 | 431 | 431 | |
| | L NB SS | [mm] | - | - | - | |
| | h ₁ | [mm] | 280 | 280 | 280 | |
| | G ₁ | [mm] | 223 | 223 | 223 | |
| | G ₂ | [mm] | 287 | 287 | 287 | |
| | m ₁ | [mm] | 200 | 200 | 200 | |
| | m ₂ | [mm] | 150 | 150 | 150 | |
| | n ₁ | [mm] | 500 | 500 | 500 | |
| | n ₂ | [mm] | 400 | 400 | 400 | |
| | b | [mm] | 100 | 100 | 100 | |
| | s ₁ | [mm] | M20 | M20 | M20 | |
| | H | [mm] | - | 160 | 160 | |
| | | LB ¹⁾ | [mm] | 411/- | 478/- | 518/- |
| | | AD ¹⁾ | [mm] | 167/- | 197/- | 197/- |
| | | AG ¹⁾ | [mm] | 140/- | 165/- | 165/- |
| | | LL ¹⁾ | [mm] | 140/- | 165/- | 165/- |
| | | P | [mm] | 300 | 350 | 350 |
| | | C | [mm] | - | 108 | 108 |
| | | B | [mm] | - | 210 | 254 |
| | A | [mm] | - | 254 | 254 | |
| | K | [mm] | - | 15 | 15 | |
| | Peso NB ¹⁾ | [kg] | 232/- | 270/- | 277/- | |
| | Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | |

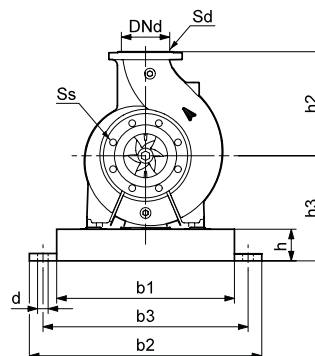
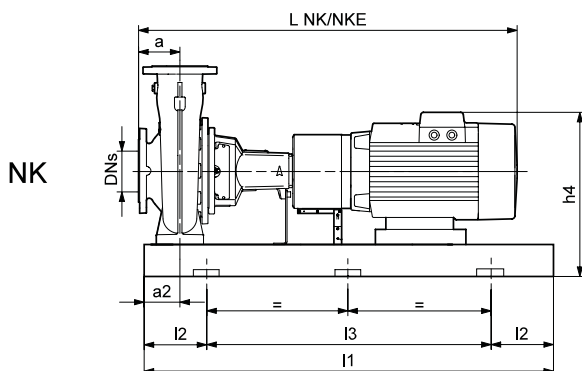
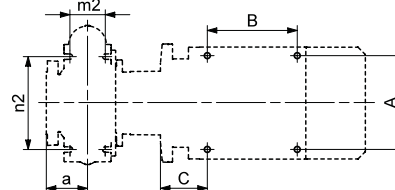
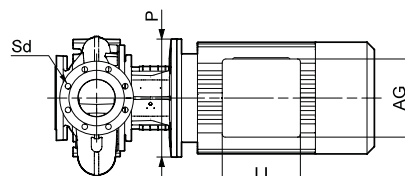
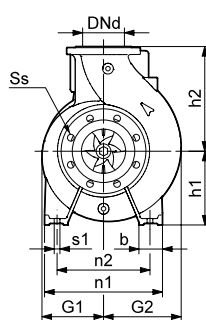
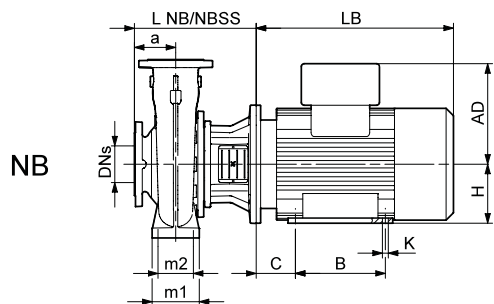
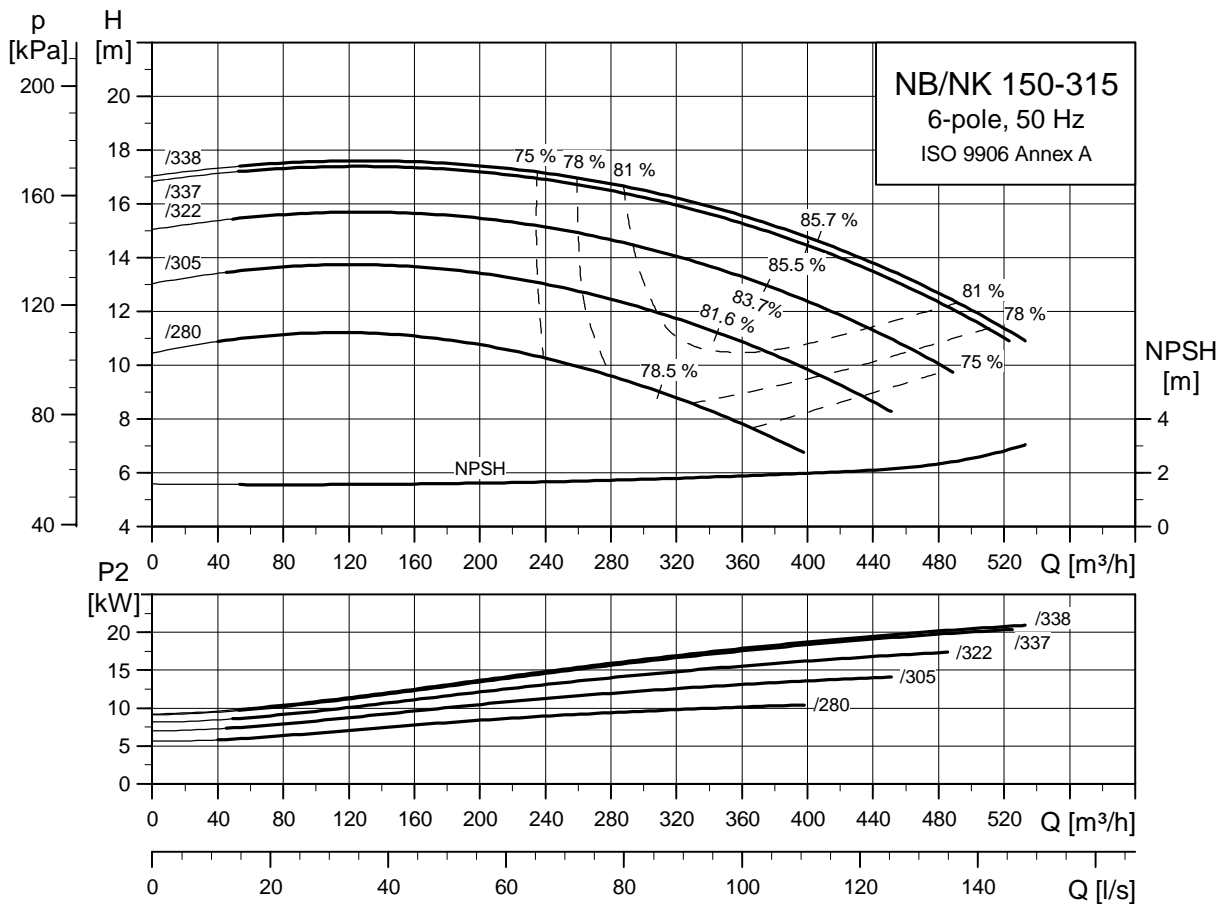
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-315
6 polos



TM03 5171 4106

TM03 4182 1806

TM03 4179 1806

| Tipo de bomba | | 150-315/280 | 150-315/305 | 150-315/322 | 150-315/337 | 150-315/338 | |
|----------------------------------------|--------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 160L | Siemens 180L | Siemens 200LA | Siemens 200LB | Siemens 225M | |
| | Motor eléctrico | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 11 | 15 | 18.5 | 22 | 30 |
| | PN | [bar] | 10 | 10 | 10 | 10 | 10 |
| | DNs | [mm] | 200 | 200 | 200 | 200 | 200 |
| | DNd | [mm] | 150 | 150 | 150 | 150 | 150 |
| | a | [mm] | 160 | 160 | 160 | 160 | 160 |
| | h ₂ | [mm] | 450 | 450 | 450 | 450 | 450 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1322/1458 | 1406/1542 | 1463/1599 | 1463/1599 | 1543/1679 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 537/532 | 581/573 | 624/619 | 655/650 | 788/783 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | Peso NKE SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| | l ₁ | [mm] | 1800 | 1800 | 1800 | 1800 | 1800 |
| | l ₂ | [mm] | 300 | 300 | 300 | 300 | 300 |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1200 | 1200 |
| | b ₁ | [mm] | 600 | 600 | 600 | 600 | 600 |
| | b ₂ | [mm] | 730 | 730 | 730 | 730 | 730 |
| | b ₃ | [mm] | 670 | 670 | 670 | 670 | 670 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 |
| | h | [mm] | 100 | 100 | 100 | 100 | 100 |
| h ₃ | [mm] | 380 | 383 | 380 | 380 | 380 | |
| h ₄ ¹⁾ | [mm] | 577/- | 641/- | 685/- | 685/- | 705/- | |
| Número de bancada | | 9 | 9 | 9 | 9 | 9 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 431 | 431 | 431 | 431 | 461 |
| | L NB SS | [mm] | - | - | - | - | - |
| | h ₁ | [mm] | 315 | 315 | 315 | 315 | 315 |
| | G ₁ | [mm] | 264 | 264 | 264 | 264 | 264 |
| | G ₂ | [mm] | 334 | 334 | 334 | 334 | 334 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 550 | 550 | 550 | 550 | 550 |
| | n ₂ | [mm] | 450 | 450 | 450 | 450 | 450 |
| | b | [mm] | 100 | 100 | 100 | 100 | 100 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 |
| | H | [mm] | 160 | 180 | 200 | 200 | 225 |
| | LB ¹⁾ | [mm] | 518/- | 602/- | 659/- | 659/- | 709/- |
| | AD ¹⁾ | [mm] | 197/- | 258/- | 305/- | 305/- | 325/- |
| | AG ¹⁾ | [mm] | 165/- | 152/- | 260/- | 260/- | 260/- |
| | LL ¹⁾ | [mm] | 165/- | 132/- | 192/- | 192/- | 192/- |
| | P | [mm] | 350 | 350 | 400 | 400 | 450 |
| | C | [mm] | 108 | 121 | 133 | 133 | 149 |
| | B | [mm] | 254 | 279 | 305 | 305 | 286 |
| A | [mm] | 254 | 279 | 318 | 318 | 356 | |
| K | [mm] | 15 | 15 | 19 | 19 | 19 | |
| Peso NB ¹⁾ | [kg] | 330/- | 369/- | 417/- | 448/- | 566/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

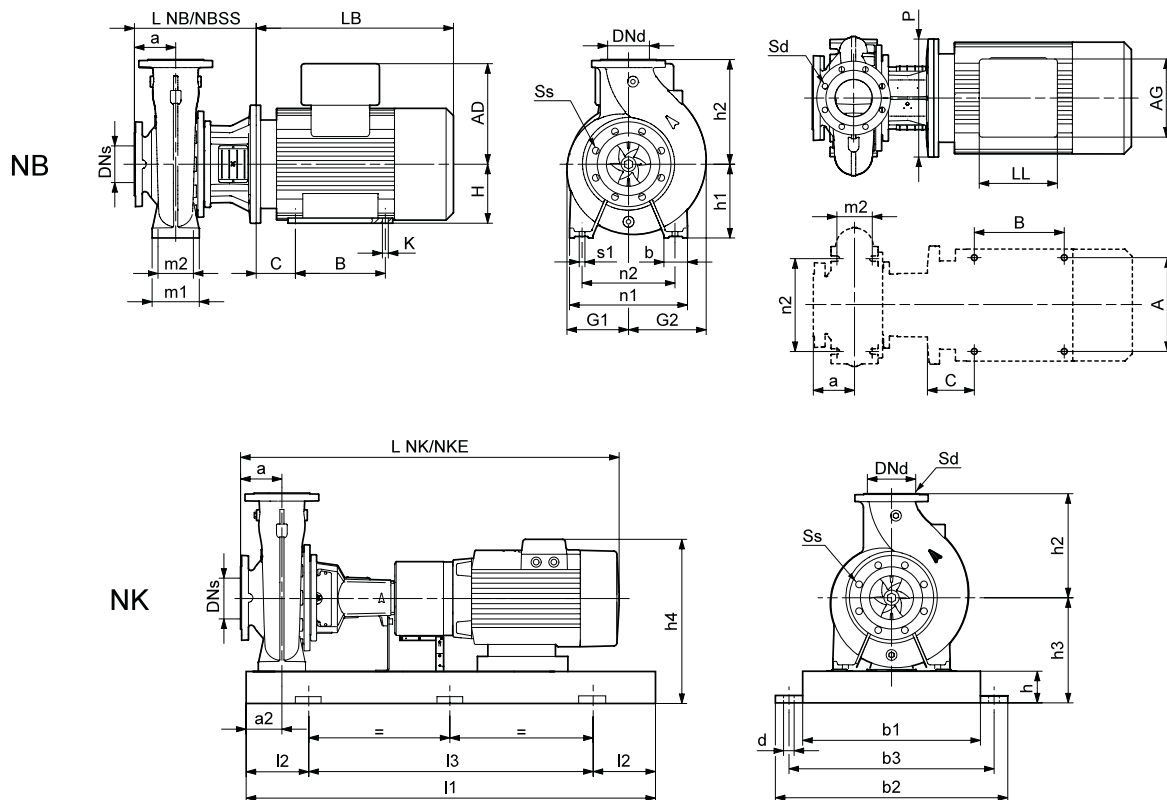
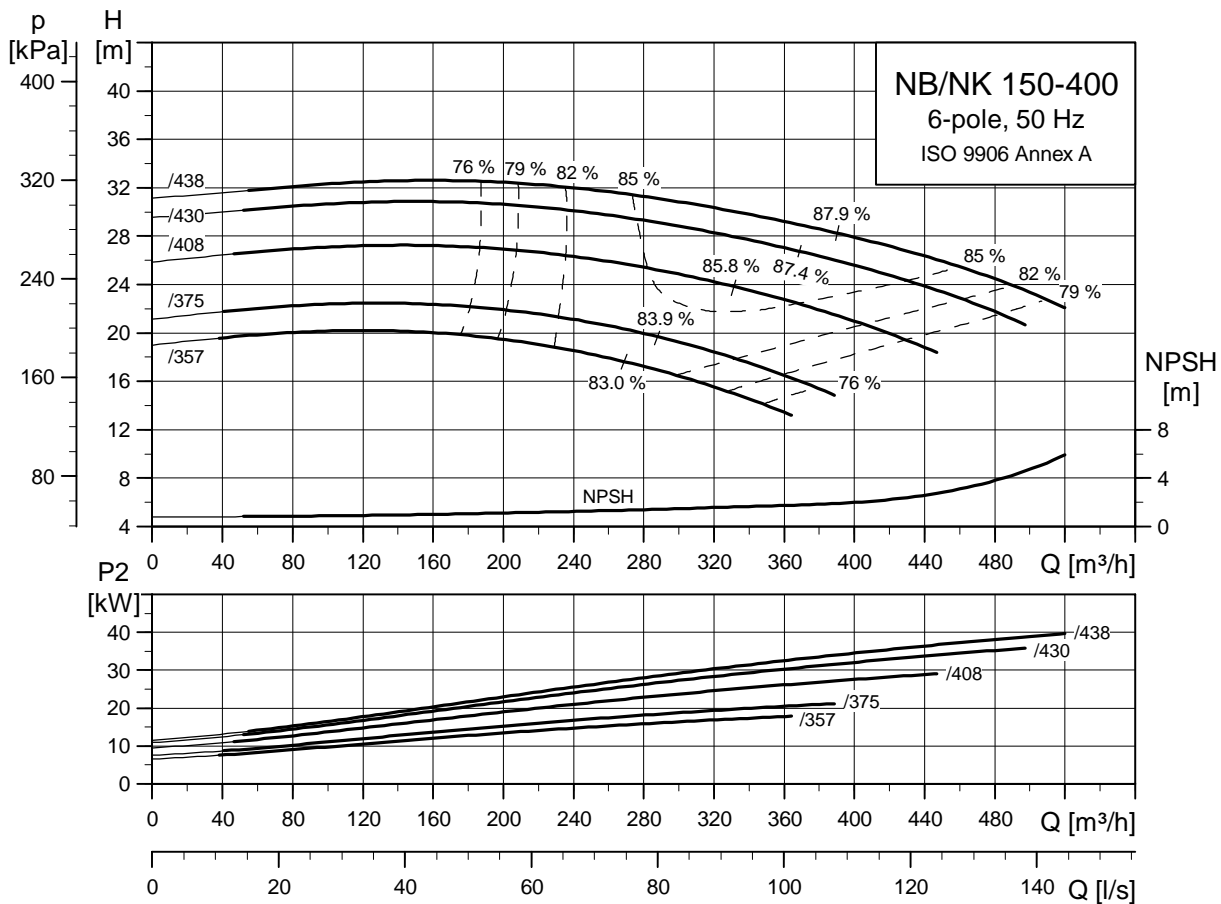
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-400
6 polos



TM03 5172 4106

TM03 4182 1806

TM03 4179 1806

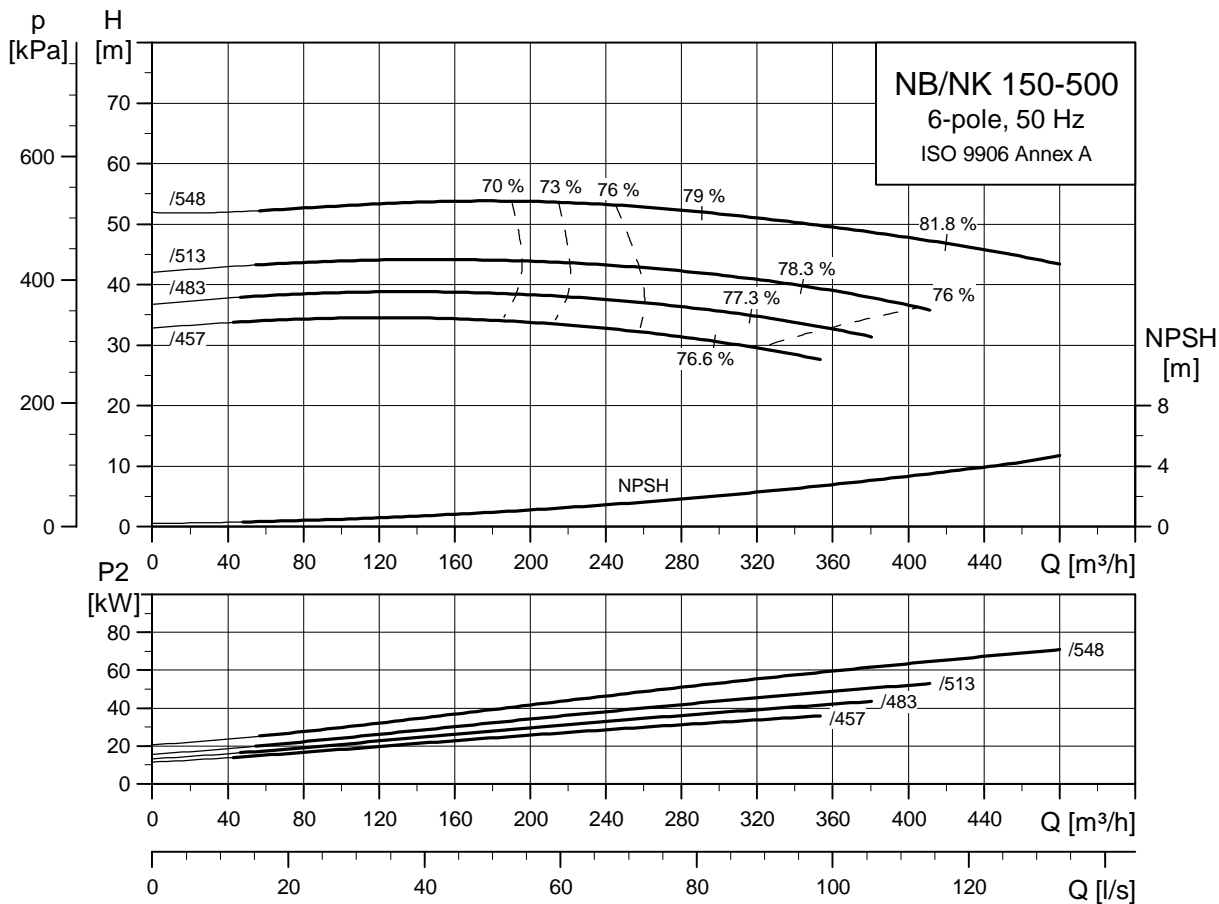
| Tipo de bomba | | 150-400/357 | 150-400/375 | 150-400/408 | 150-400/430 | 150-400/438 | |
|----------------------------------------|------------------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 200LA | Siemens 200LB | Siemens 225M | Siemens 250M | Siemens 280S | |
| | Motor eléctrico | - | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 18.5 | 22 | 30 | 37 | 45 |
| | PN | [bar] | 10 | 10 | 10 | 10 | 10 |
| | DNs | [mm] | 200 | 200 | 200 | 200 | 200 |
| | DNd | [mm] | 150 | 150 | 150 | 150 | 150 |
| | a | [mm] | 160 | 160 | 160 | 160 | 160 |
| | h ₂ | [mm] | 450 | 450 | 450 | 450 | 450 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x23 | 8x23 | 8x23 | 8x23 | 8x23 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1463/1599 | 1463/1599 | 1543/1679 | 1581/1717 | 1654/1790 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 658/653 | 689/684 | 793/788 | 887/886 | 1172/1166 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 1800 | 1800 | 1800 | 1800 | 2000 |
| | l ₂ | [mm] | 300 | 300 | 300 | 300 | 330 |
| | l ₃ | [mm] | 1200 | 1200 | 1200 | 1200 | 1340 |
| | b ₁ | [mm] | 600 | 600 | 600 | 600 | 750 |
| | b ₂ | [mm] | 730 | 730 | 730 | 730 | 890 |
| | b ₃ | [mm] | 670 | 670 | 670 | 670 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 | 110 |
| | h | [mm] | 100 | 100 | 100 | 100 | 130 |
| | h ₃ | [mm] | 415 | 415 | 415 | 415 | 445 |
| | h ₄ ¹⁾ | [mm] | 720/- | 720/- | 740/- | 807/- | 877/- |
| Número de bancada | | 9 | 9 | 9 | 9 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 444 | 444 | 474 | 474 | 474 |
| | L NB SS | [mm] | - | - | - | - | - |
| | h ₁ | [mm] | 315 | 315 | 315 | 315 | 315 |
| | G ₁ | [mm] | 291 | 291 | 291 | 291 | 291 |
| | G ₂ | [mm] | 339 | 339 | 339 | 339 | 339 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 550 | 550 | 550 | 550 | 550 |
| | n ₂ | [mm] | 450 | 450 | 450 | 450 | 450 |
| | b | [mm] | 100 | 100 | 100 | 100 | 100 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 | M20 |
| | H | [mm] | 200 | 200 | 225 | 250 | 280 |
| | LB ¹⁾ | [mm] | 659/- | 659/- | 709/- | 747/- | 820/- |
| | AD ¹⁾ | [mm] | 305/- | 305/- | 325/- | 392/- | 432/- |
| | AG ¹⁾ | [mm] | 260/- | 260/- | 260/- | 300/- | 300/- |
| | LL ¹⁾ | [mm] | 192/- | 192/- | 192/- | 236/- | 236/- |
| | P | [mm] | 400 | 400 | 450 | 550 | 550 |
| | C | [mm] | 133 | 133 | 149 | 168 | 190 |
| | B | [mm] | 305 | 305 | 286 | 349 | 368 |
| | A | [mm] | 318 | 318 | 356 | 406 | 457 |
| K | [mm] | 19 | 19 | 19 | 24 | 24 | |
| Peso NB ¹⁾ | [kg] | 467/- | 498/- | 617/- | 715/- | 830/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | -/- | |

1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

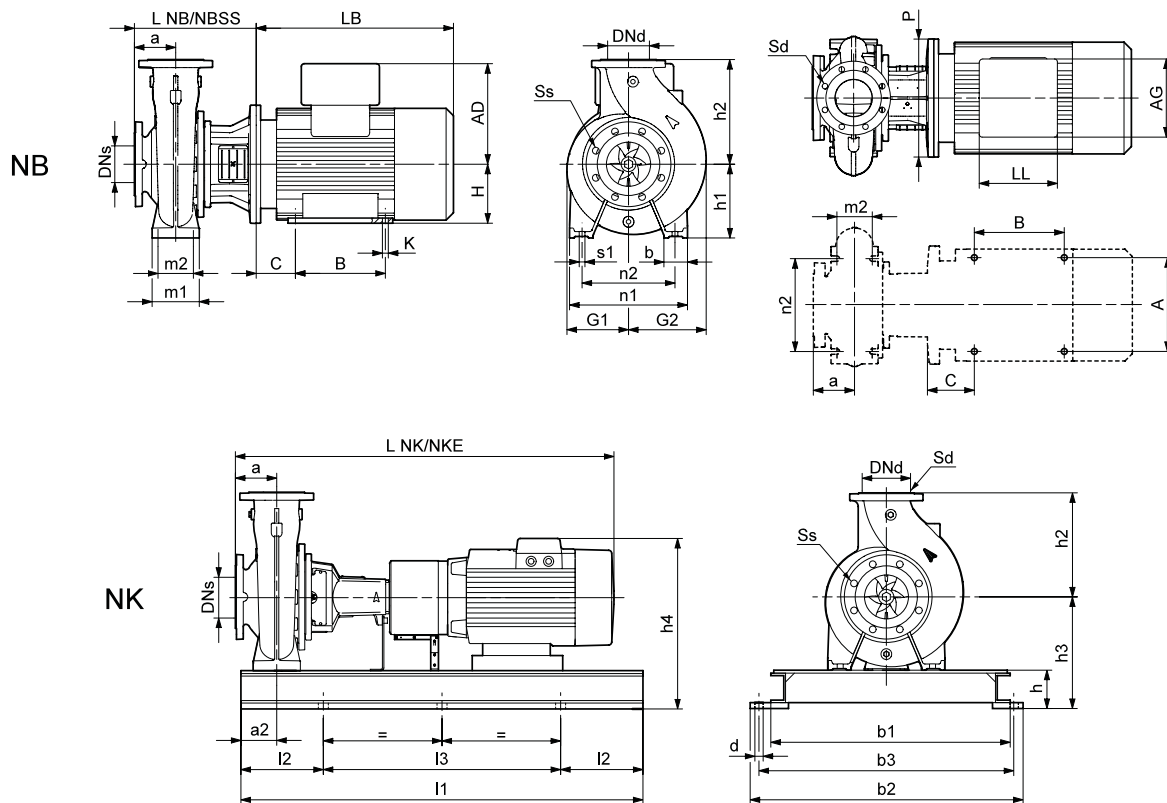
Nota: Para obtener más información sobre bancadas, ver página 270.

Curvas de rendimiento

NB, NK 150-500
6 polos



TM03 5173 4106



TM03 4182 1806

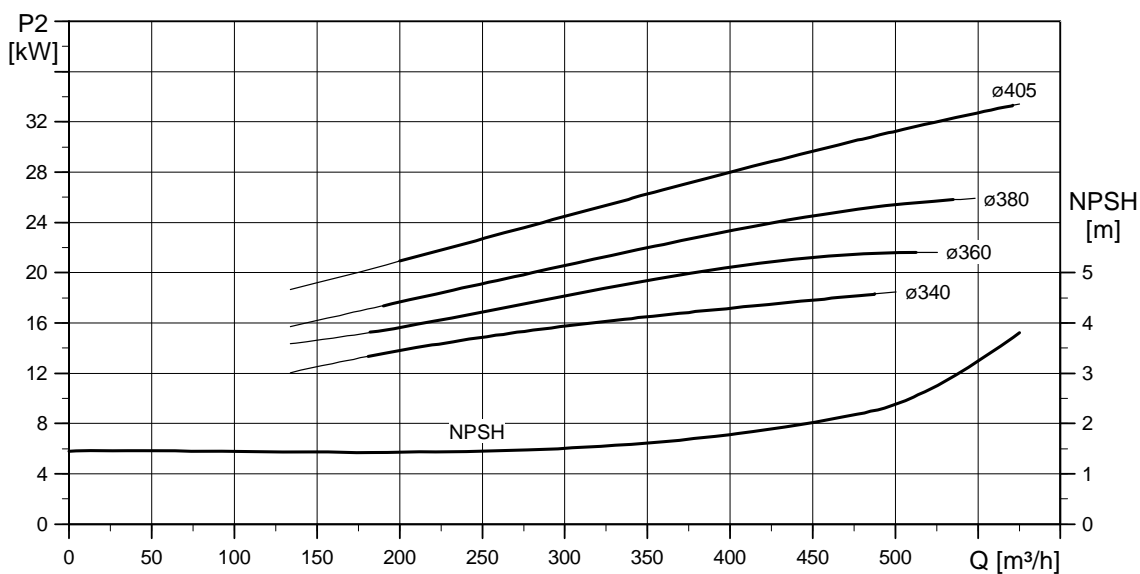
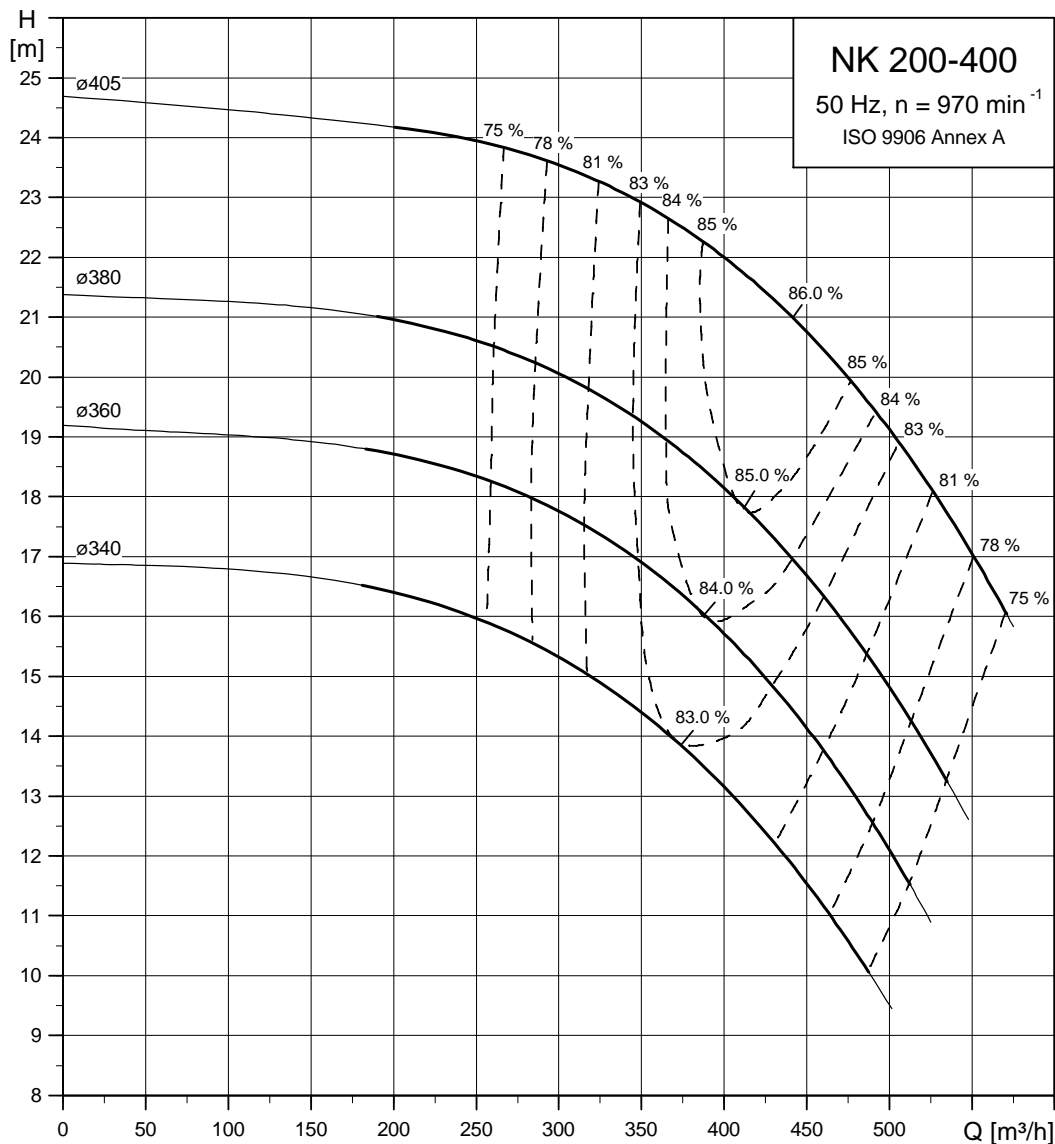
TM03 4051 1806

| Tipo de bomba | | 150-500/457 | 150-500/483 | 150-500/513 | 150-500/548 | |
|----------------------------------------|------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|
| Tipo de motor | Motor de gama alta | Siemens 250M | Siemens 280S | Siemens 280M | Siemens 315S | |
| | Motor eléctrico | - | - | - | - | |
| Datos generales NB/NK | P ₂ | [kW] | 37 | 45 | 55 | 75 |
| | PN | [bar] | 10 | 10 | 10 | 10 |
| | DNs | [mm] | 200 | 200 | 200 | 200 |
| | DNd | [mm] | 150 | 150 | 150 | 150 |
| | a | [mm] | 180 | 180 | 180 | 180 |
| | h ₂ | [mm] | 500 | 500 | 500 | 500 |
| | Ss | | 8x23 | 8x23 | 8x23 | 8x23 |
| Sd | | 8x23 | 8x23 | 8x23 | 8x23 | |
| Datos generales NK estándar/espaciador | L NK | [mm] | 1741/1917 | 1814/1990 | 1924/2100 | 1956/2132 |
| | L NKE | [mm] | -/- | -/- | -/- | -/- |
| | Peso NK | [kg] | 1322/1319 | 1433/1429 | 1487/1483 | 1676/1672 |
| | Peso NKE | [kg] | -/- | -/- | -/- | -/- |
| | Peso NK SS | [kg] | -/- | -/- | -/- | -/- |
| Datos NK | l ₁ | [mm] | 2000 | 2000 | 2000 | 2000 |
| | l ₂ | [mm] | 330 | 330 | 330 | 330 |
| | l ₃ | [mm] | 1340 | 1340 | 1340 | 1340 |
| | b ₁ | [mm] | 750 | 750 | 750 | 750 |
| | b ₂ | [mm] | 890 | 890 | 890 | 890 |
| | b ₃ | [mm] | 830 | 830 | 830 | 830 |
| | d | [mm] | 28 | 28 | 28 | 28 |
| | a ₂ | [mm] | 110 | 110 | 110 | 110 |
| | h | [mm] | 130 | 130 | 130 | 130 |
| | h ₃ | [mm] | 530 | 530 | 530 | 530 |
| | h ₄ ¹⁾ | [mm] | 922/- | 962/- | 962/- | 1025/- |
| Número de bancada | | 10 | 10 | 10 | 10 | |
| Datos NB | Diseño | | C ²⁾ | C ²⁾ | C ²⁾ | C ²⁾ |
| | L NB | [mm] | 524 | 524 | 524 | 554 |
| | L NB SS | [mm] | - | - | - | - |
| | h ₁ | [mm] | 400 | 400 | 400 | 400 |
| | G ₁ | [mm] | 353 | 353 | 353 | 353 |
| | G ₂ | [mm] | 396 | 396 | 396 | 396 |
| | m ₁ | [mm] | 200 | 200 | 200 | 200 |
| | m ₂ | [mm] | 150 | 150 | 150 | 150 |
| | n ₁ | [mm] | 625 | 625 | 625 | 625 |
| | n ₂ | [mm] | 500 | 500 | 500 | 500 |
| | b | [mm] | 125 | 125 | 125 | 125 |
| | s ₁ | [mm] | M20 | M20 | M20 | M20 |
| | H | [mm] | 250 | 280 | 280 | 315 |
| | LB ¹⁾ | [mm] | 747/- | 820/- | 930/- | 932/- |
| | AD ¹⁾ | [mm] | 392/- | 432/- | 432/- | 495/- |
| | AG ¹⁾ | [mm] | 300/- | 300/- | 300/- | 379/- |
| | LL ¹⁾ | [mm] | 236/- | 236/- | 236/- | 307/- |
| | P | [mm] | 550 | 550 | 550 | 660 |
| | C | [mm] | 168 | 190 | 190 | 216 |
| | B | [mm] | 349 | 368 | 419 | 406 |
| A | [mm] | 406 | 457 | 457 | 508 | |
| K | [mm] | 24 | 24 | 24 | 28 | |
| Peso NB ¹⁾ | [kg] | 883/- | 998/- | 1048/- | 1279/- | |
| Peso NB SS ¹⁾ | [kg] | -/- | -/- | -/- | -/- | |

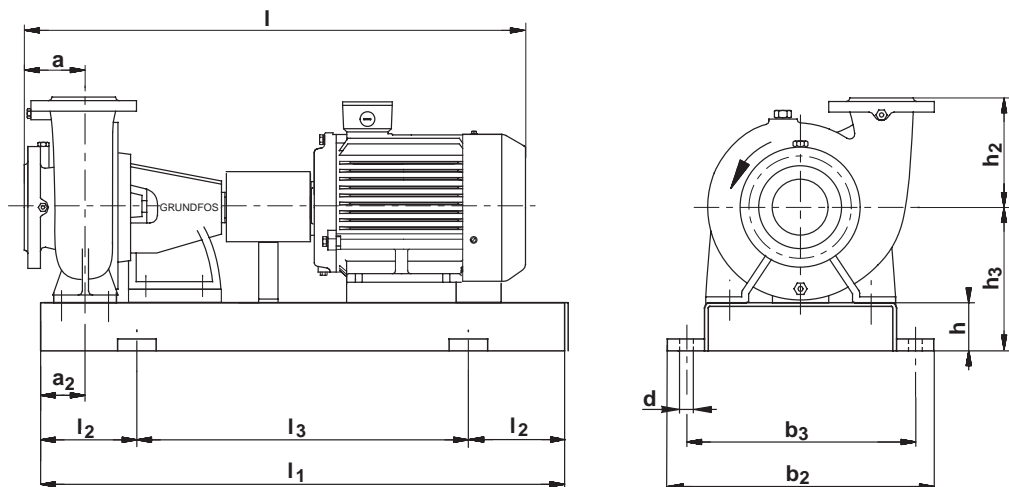
1) Dimensión de la bomba con un motor de gama alta/convertidor de frecuencia intergrado.

2) Son necesarios bloques de apoyo debido a las dimensiones P, h₁ y H.

Nota: Para obtener más información sobre bancadas, ver página 270.



TM01 2894 0499



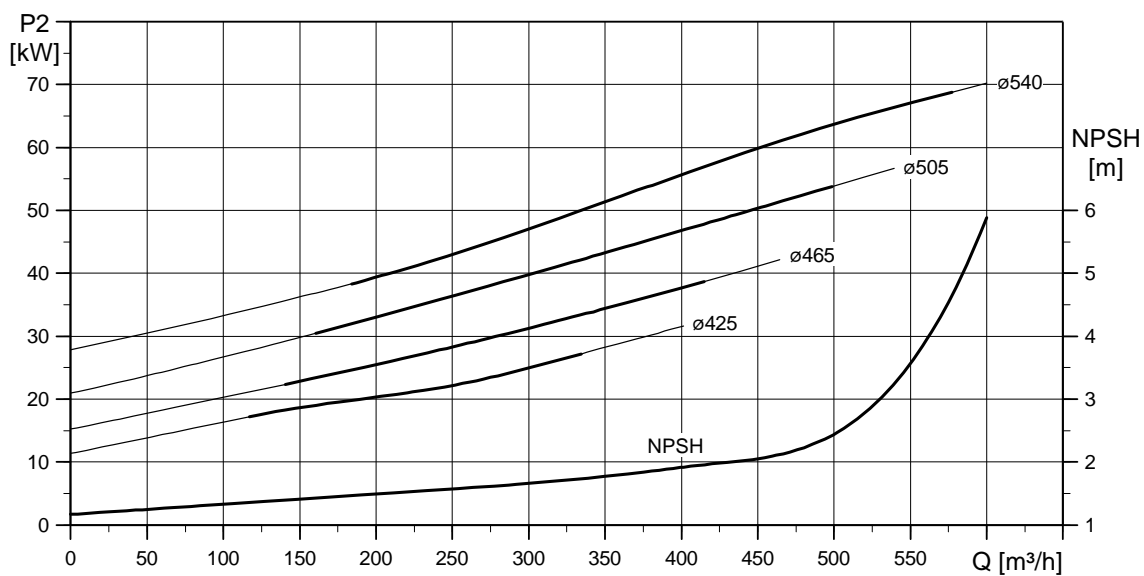
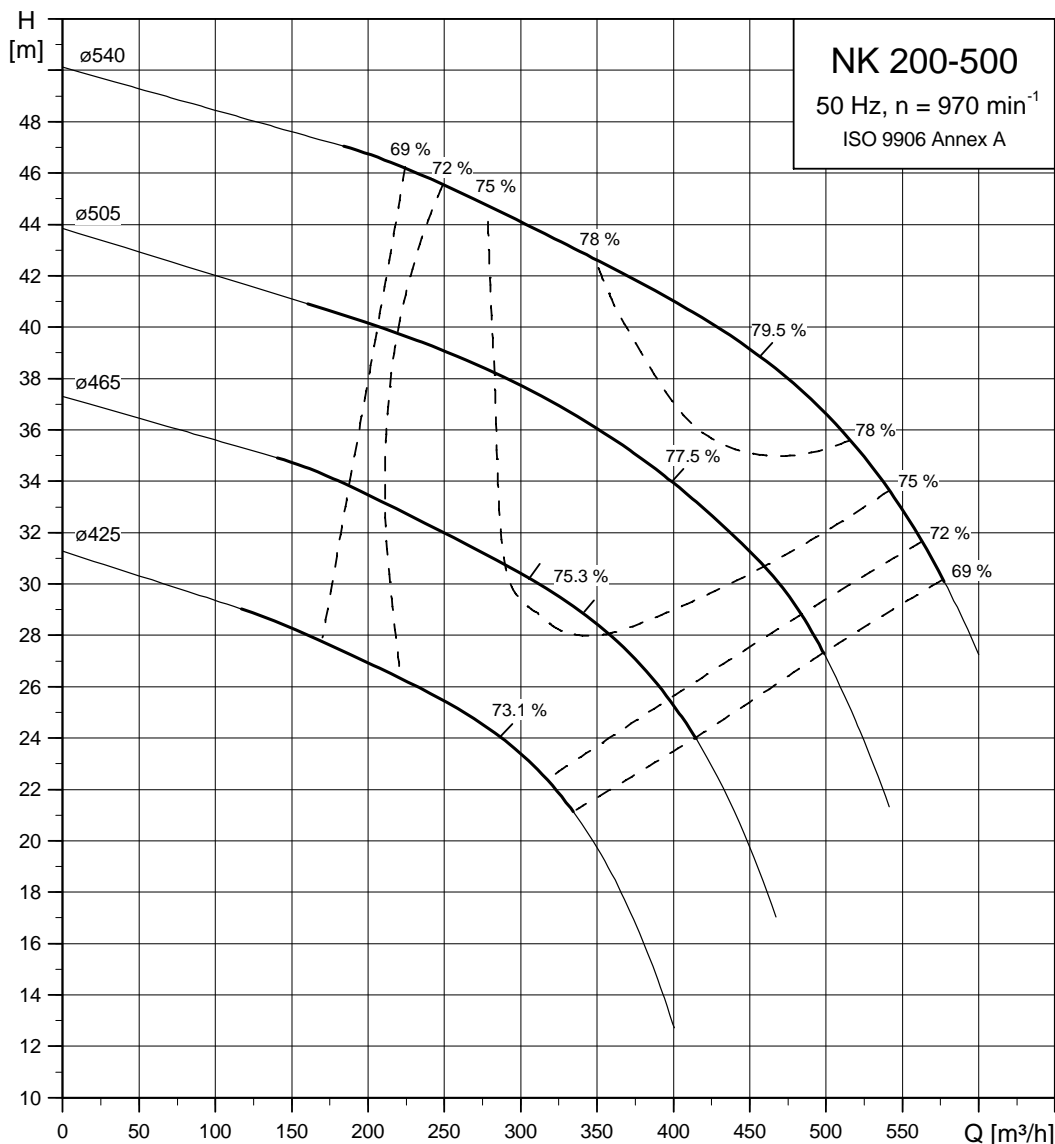
TM03 1280 1505

| NK 200-400* | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|
| kW | | 18,5 | 22 | 30 | 37 |
| Gama de motor estándar | | MMG 200LA-E | MMG 200LB-E | MMG 225M-E | MMG 250M-E |
| Gama de motor alta | | MMG 200LA-D | MMG 200LB-D | MMG 225M-D | MMG 250M-D |
| Gama de motor eléctrico | | | | | |
| PN | [bar] | 10 | 10 | 10 | 10 |
| DN _s | [mm] | 200 | 200 | 200 | 200 |
| DN _d | [mm] | 250 | 250 | 250 | 250 |
| a | [mm] | 180 | 180 | 180 | 180 |
| a ₂ | [mm] | 200 | 200 | 245 | 255 |
| h | [mm] | 100 | 100 | 160 | 180 |
| h ₂ | [mm] | 400 | 400 | 400 | 400 |
| h ₃ | [mm] | 500 | 500 | 500 | 500 |
| h ₄ ¹⁾ | [mm] | 797/827/- | 797/827/- | 820/866/- | 859/885/- |
| Acoplamiento estándar | | | | | |
| l ¹⁾ | [mm] | 1691/1713/- | 1691/1713/- | 1771/1822/- | 1844/1906/- |
| l ₁ | [mm] | 1800 | 1800 | 1800 | 1800 |
| l ₂ | [mm] | 300 | 300 | 300 | 300 |
| l ₃ | [mm] | 1200 | 1200 | 1200 | 1200 |
| b ₁ | [mm] | 600 | 600 | 600 | 600 |
| b ₂ | [mm] | 730 | 730 | 730 | 730 |
| b ₃ | [mm] | 670 | 670 | 670 | 670 |
| d | [mm] | 28 | 28 | 28 | 28 |
| Peso ¹⁾ | Neto [kg] | 771/748/- | 786/758/- | 837/831/- | 935/927/- |
| Acoplamiento espaciador | | | | | |
| l ¹⁾ | [mm] | 1887/1909/- | 1887/1909/- | 1967/2018/- | 2040/2102/- |
| l ₁ | [mm] | 1800 | 1800 | 2000 | 2000 |
| l ₂ | [mm] | 300 | 300 | 330 | 330 |
| l ₃ | [mm] | 1200 | 1200 | 1340 | 1340 |
| b ₁ | [mm] | 600 | 600 | 750 | 750 |
| b ₂ | [mm] | 730 | 730 | 910 | 910 |
| b ₃ | [mm] | 670 | 670 | 830 | 830 |
| d | [mm] | 28 | 28 | 28 | 28 |
| Peso ¹⁾ | Neto [kg] | 769/746/- | 784/756/- | 854/848/- | 949/941/- |

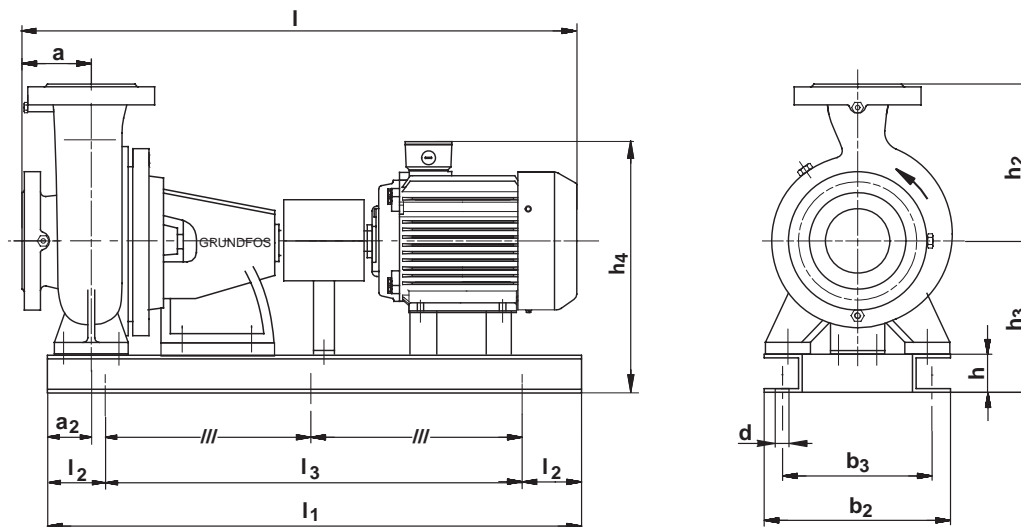
1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

Curvas de rendimiento

NK 200-500
6 polos



TM01 2895 0499



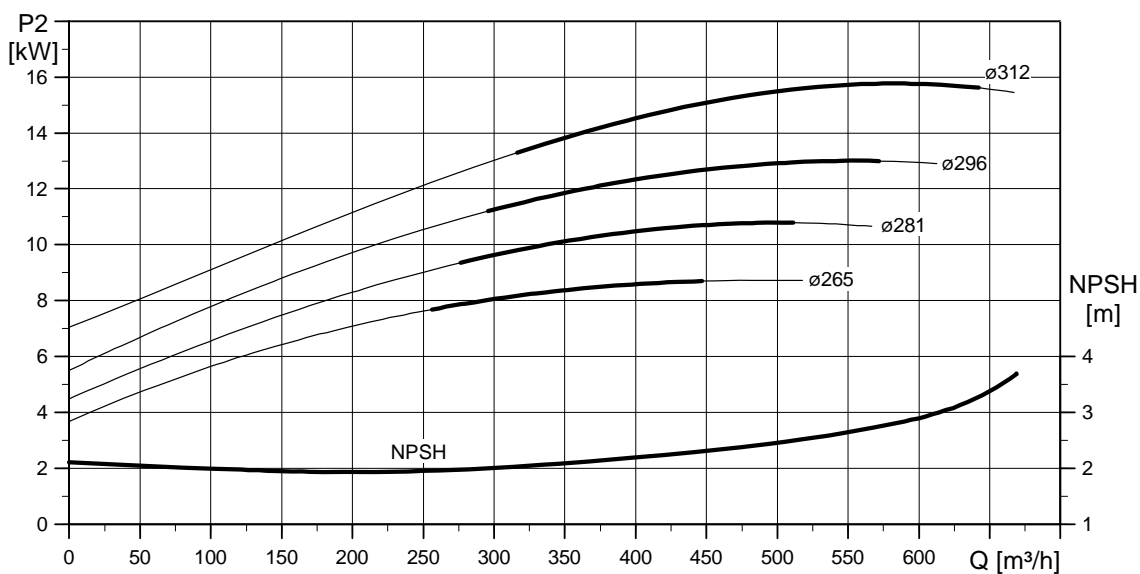
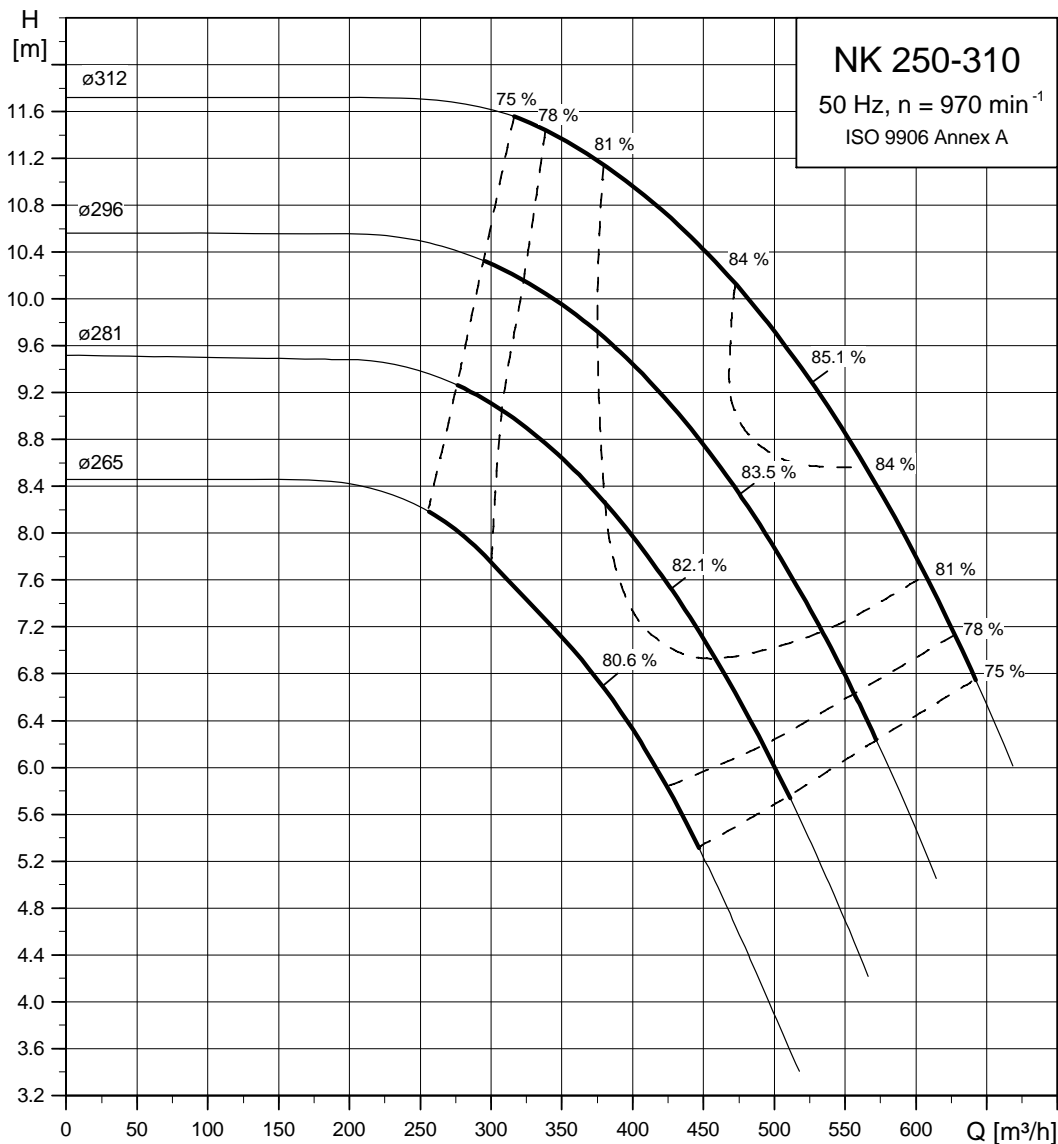
TM03 1282 1505

| NK 200-500* | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| kW | | 30 | 37 | 45 | 55 | 75 |
| Gama de motor estándar | | MMG 225M-E | MMG 250M-E | MMG 280S-E | MMG 280M-E | MMG 315S-E |
| Gama de motor alta | | MMG 225M-D | MMG 250M-D | MMG 280S-D | MMG 280M-D | MMG 315S-D |
| Gama de motor eléctrico | | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 |
| DN _s | [mm] | 200 | 200 | 200 | 200 | 200 |
| DN _d | [mm] | 250 | 250 | 250 | 250 | 250 |
| a | [mm] | 250 | 250 | 250 | 250 | 250 |
| a ₂ | [mm] | 175 | 175 | 175 | 175 | 175 |
| h | [mm] | 160 | 160 | 180 | 180 | 180 |
| h ₂ | [mm] | 675 | 675 | 675 | 675 | 675 |
| h ₃ | [mm] | 480 | 480 | 480 | 480 | 495 |
| h ₄ ¹⁾ | [mm] | 800/846/- | 839/865/- | 866/899/- | 866/899/- | 966/1007/- |
| Acoplamiento estándar | | | | | | |
| l ₁ ¹⁾ | [mm] | 1841/1892/- | 1914/1976/- | 1949/2042/- | 2000/2093/- | 2210/2130/- |
| l ₁ | [mm] | 1900 | 1900 | 2000 | 2000 | 2000 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1600 | 1600 | 1700 | 1700 | 1700 |
| b ₁ | [mm] | - | - | - | - | - |
| b ₂ | [mm] | 945 | 945 | 945 | 945 | 945 |
| b ₃ | [mm] | 885 | 885 | 885 | 885 | 880 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 984/978/- | 1082/1074/- | 1206/1148/- | 1274/1203/- | 1696/1324/- |
| Acoplamiento espaciador | | | | | | |
| l ₁ ¹⁾ | [mm] | 2037/2088/- | 2110/2172/- | 2143/2236/- | 2194/2287/- | 2404/2324/- |
| l ₁ | [mm] | 2000 | 2100 | 2100 | 2100 | 2100 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1700 | 1800 | 1800 | 1800 | 1800 |
| b ₁ | [mm] | - | - | - | - | - |
| b ₂ | [mm] | 945 | 945 | 945 | 945 | 945 |
| b ₃ | [mm] | 885 | 885 | 885 | 885 | 880 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 983/977/- | 1089/1081/- | 1225/1167/- | 1293/1222/- | 1723/1351/- |

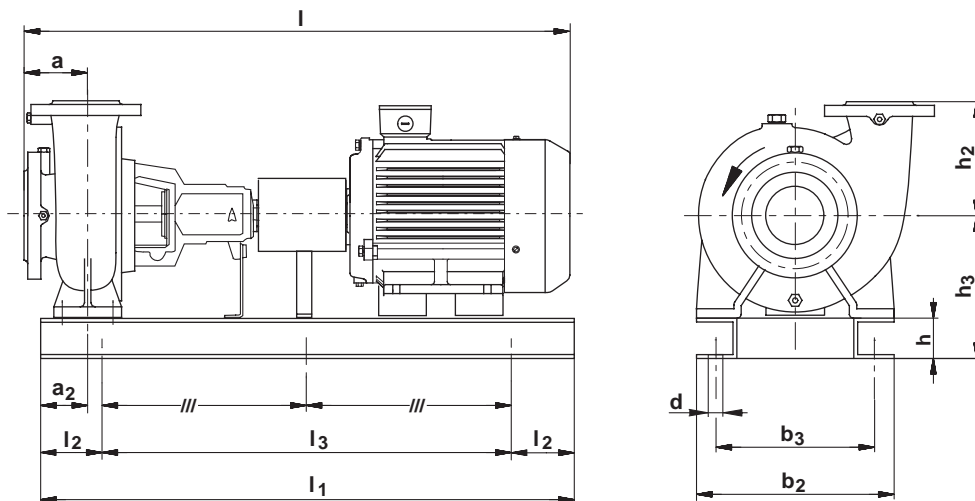
1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

Curvas de rendimiento

NK 250-310
6 polos



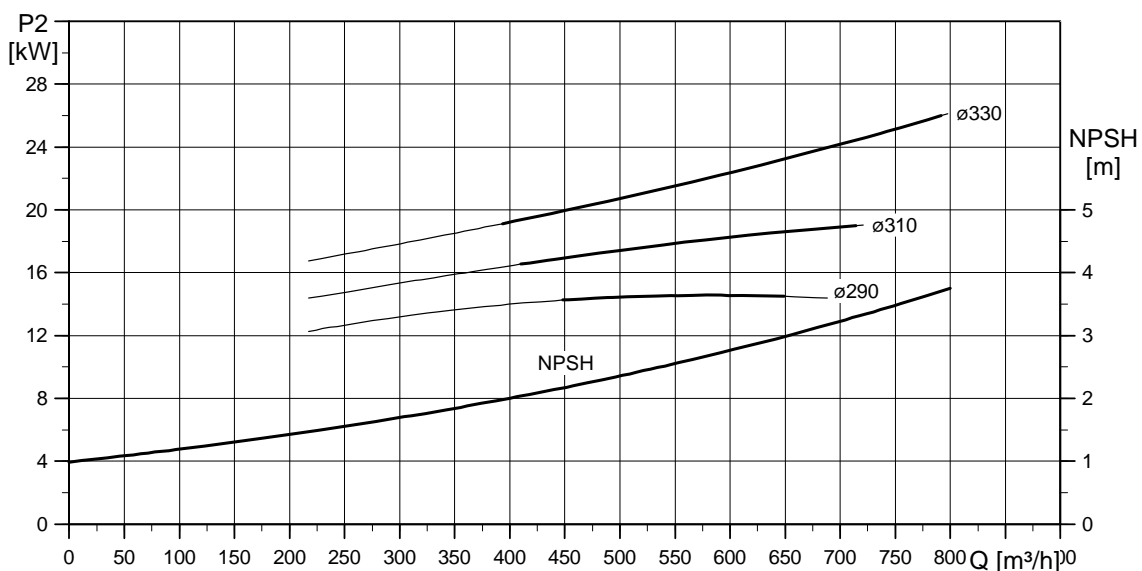
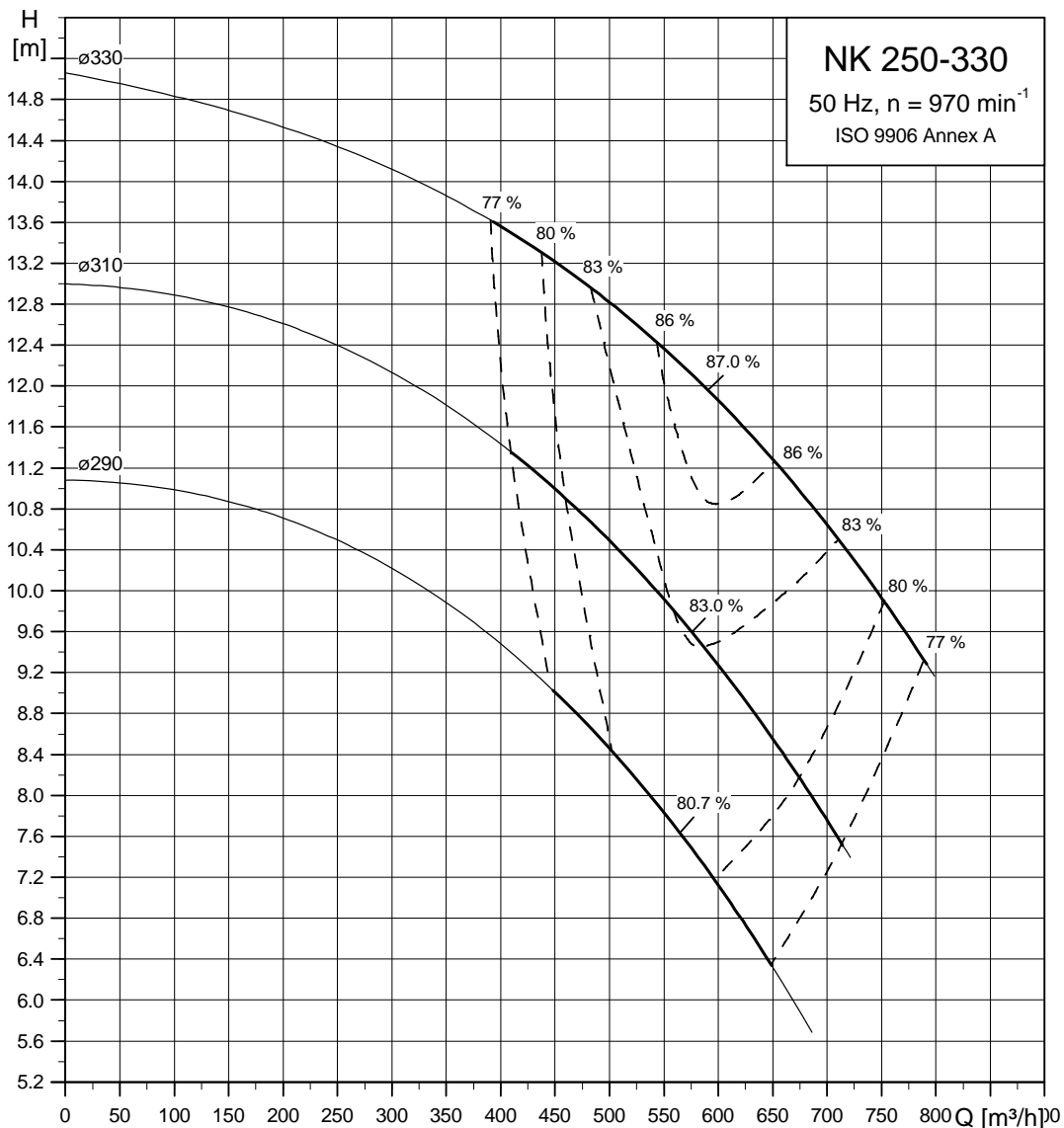
TM01 2896 0499



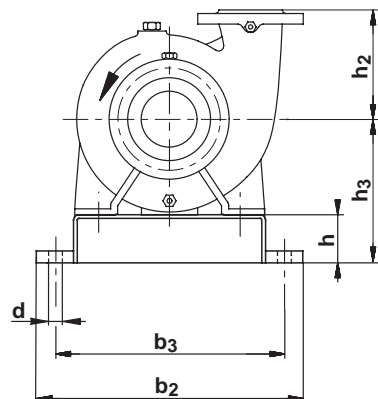
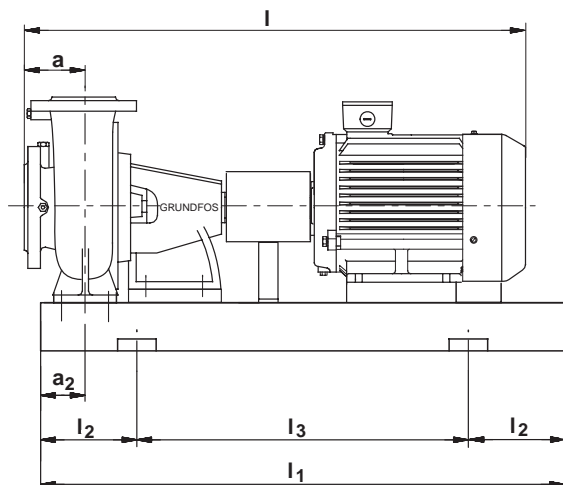
TM03 1278 1505

| NK 250-310* | | | | |
|------------------------------|-----------|-------------|-------------|-------------|
| kW | | 11 | 15 | 18,5 |
| Gama de motor estándar | | MMG 160L-E | MMG 180L-E | MMG 200LA-E |
| Gama de motor alta | | MMG 160L-D | MMG 180L-D | MMG 200LA-D |
| Gama de motor eléctrico | | - | - | - |
| PN | [bar] | 10 | 10 | 10 |
| DN _s | [mm] | 250 | 250 | 250 |
| DN _d | [mm] | 300 | 300 | 300 |
| a | [mm] | 250 | 250 | 250 |
| a ₂ | [mm] | 200 | 200 | 200 |
| h | [mm] | 140 | 140 | 140 |
| h ₂ | [mm] | 400 | 400 | 400 |
| h ₃ | [mm] | 480 | 480 | 480 |
| h ₄ ¹⁾ | [mm] | 728/725/- | 744/746/- | 777/807/- |
| Acoplamiento estándar | | | | |
| l ₁ ¹⁾ | [mm] | 1471/1476/- | 1509/1531/- | 1576/1598/- |
| l ₁ | [mm] | 1700 | 1700 | 1700 |
| l ₂ | [mm] | 150 | 150 | 150 |
| l ₃ | [mm] | 1400 | 1400 | 1400 |
| b ₁ | [mm] | - | - | - |
| b ₂ | [mm] | 950 | 950 | 950 |
| b ₃ | [mm] | 890 | 890 | 890 |
| d | [mm] | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 656/611/- | 699/645/- | 748/725/- |
| Acoplamiento espaciador | | | | |
| l ₁ ¹⁾ | [mm] | 1667/1672/- | 1705/1727/- | 1772/1794/- |
| l ₁ | [mm] | 1700 | 1700 | 1800 |
| l ₂ | [mm] | 150 | 150 | 150 |
| l ₃ | [mm] | 1400 | 1400 | 1500 |
| b ₁ | [mm] | - | - | - |
| b ₂ | [mm] | 950 | 950 | 950 |
| b ₃ | [mm] | 890 | 890 | 890 |
| d | [mm] | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 654/609/- | 695/641/- | 756/733/- |

1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.



TM01 2897 0499



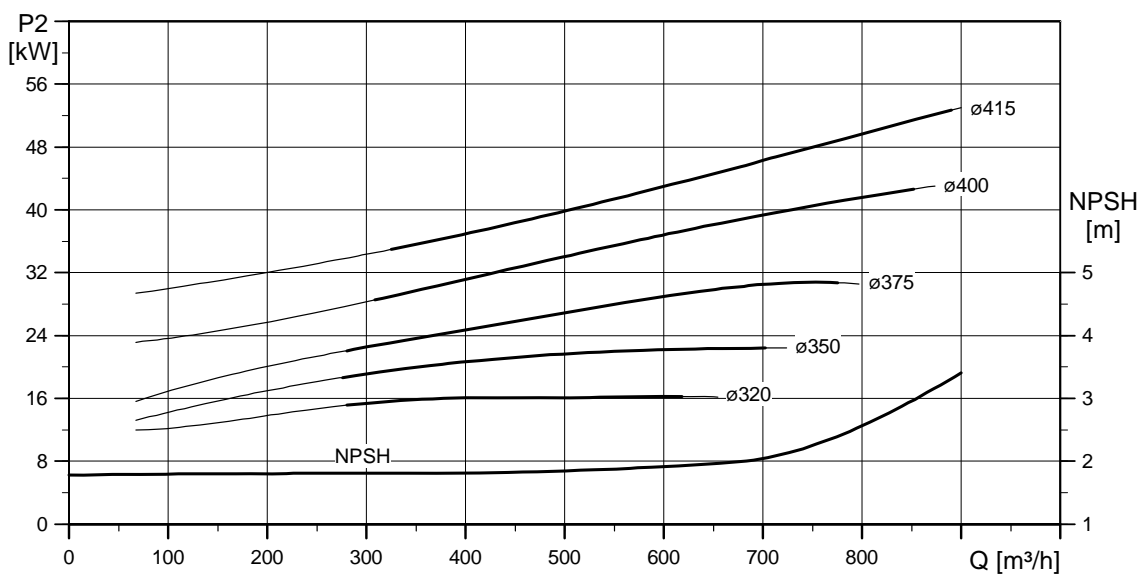
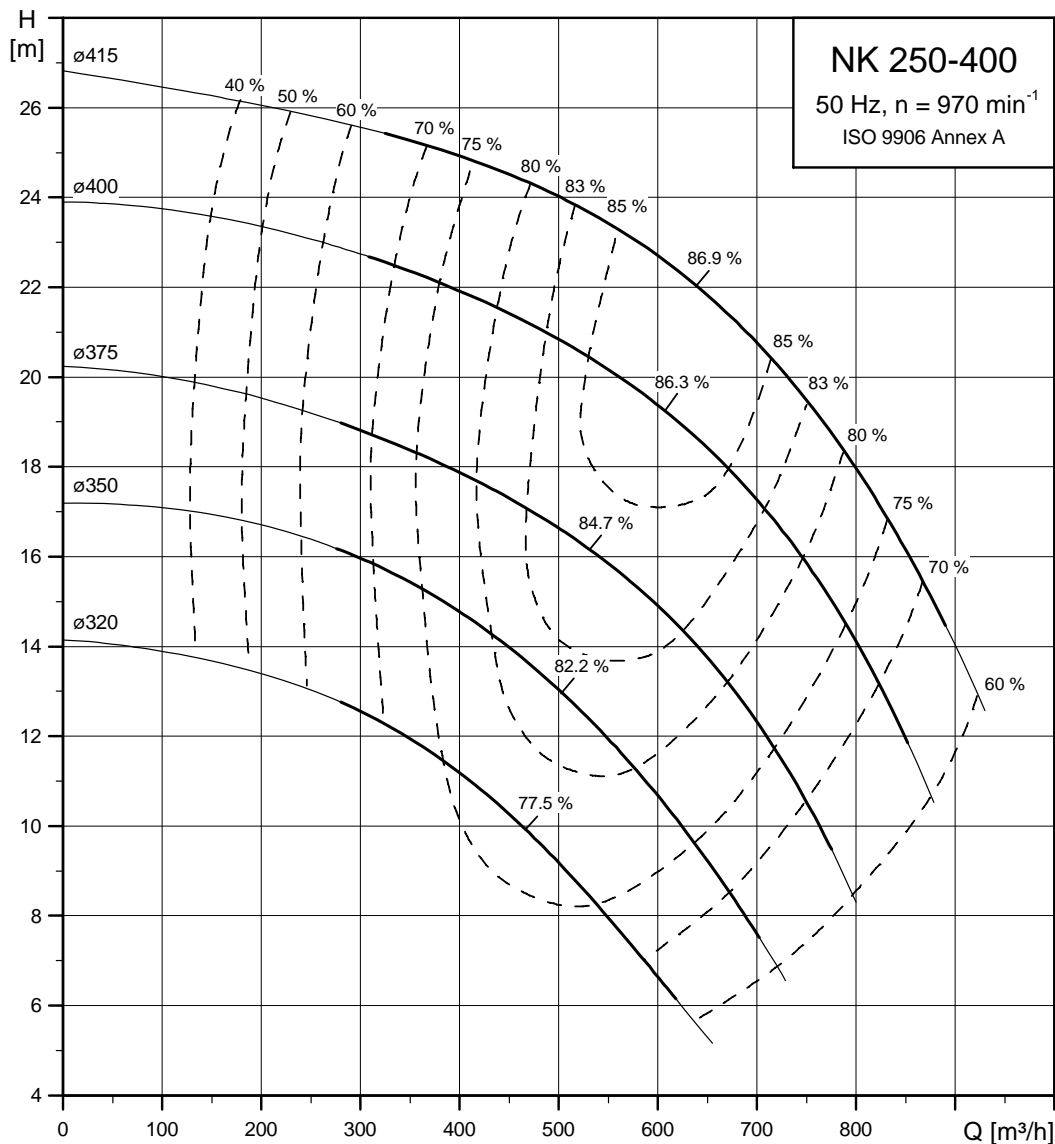
TM03 1280 1505

| NK 250-330* | | | | |
|------------------------------|-----------|-------------|-------------|-------------|
| kW | | 18,5 | 22 | 30 |
| Gama de motor estándar | | MMG 200LA-E | MMG 200LB-E | MMG 225M-E |
| Gama de motor alta | | MMG 200LA-D | MMG 200LB-D | MMG 225M-D |
| Gama de motor eléctrico | | - | - | - |
| PN | [bar] | 10 | 10 | 10 |
| DN _s | [mm] | 250 | 250 | 250 |
| DN _d | [mm] | 250 | 250 | 250 |
| a | [mm] | 250 | 250 | 250 |
| a ₂ | [mm] | 225 | 225 | 225 |
| h | [mm] | 120 | 120 | 120 |
| h ₂ | [mm] | 400 | 400 | 400 |
| h ₃ | [mm] | 570 | 570 | 570 |
| h ₄ ¹⁾ | [mm] | 867/897/- | 867/897/- | 890/936/- |
| Acoplamiento estándar | | | | |
| l ₁ | [mm] | 1751/1773/- | 1751/1773/- | 1831/1882/- |
| l ₁ | [mm] | 2000 | 2000 | 2000 |
| l ₂ | [mm] | 330 | 330 | 330 |
| l ₃ | [mm] | 1340 | 1340 | 1340 |
| b ₁ | [mm] | 750 | 750 | 750 |
| b ₂ | [mm] | 910 | 910 | 910 |
| b ₃ | [mm] | 830 | 830 | 830 |
| d | [mm] | 28 | 28 | 28 |
| Peso ¹⁾ | Neto [kg] | 814/791/- | 829/801/- | 880/874/- |
| Acoplamiento espaciador | | | | |
| l ₁ | [mm] | 1947/1969/- | 1947/1969/- | 2027/2078/- |
| l ₁ | [mm] | 2000 | 2000 | 2000 |
| l ₂ | [mm] | 330 | 330 | 330 |
| l ₃ | [mm] | 1340 | 1340 | 1340 |
| b ₁ | [mm] | 750 | 750 | 750 |
| b ₂ | [mm] | 910 | 910 | 910 |
| b ₃ | [mm] | 830 | 830 | 830 |
| d | [mm] | 28 | 28 | 28 |
| Peso ¹⁾ | Neto [kg] | 812/789/- | 827/799/- | 879/873/- |

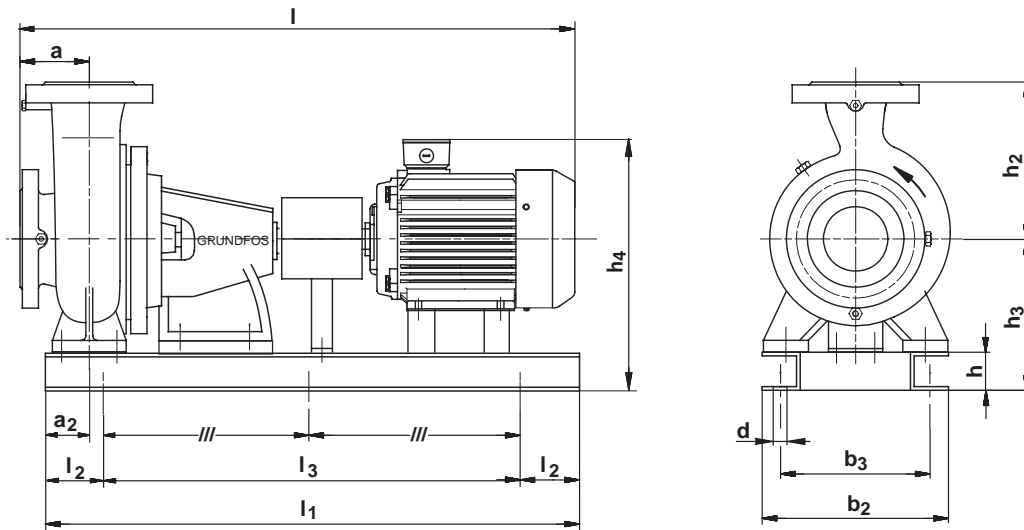
1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

Curvas de rendimiento

NK 250-400
6 polos



TM01 2898 0499



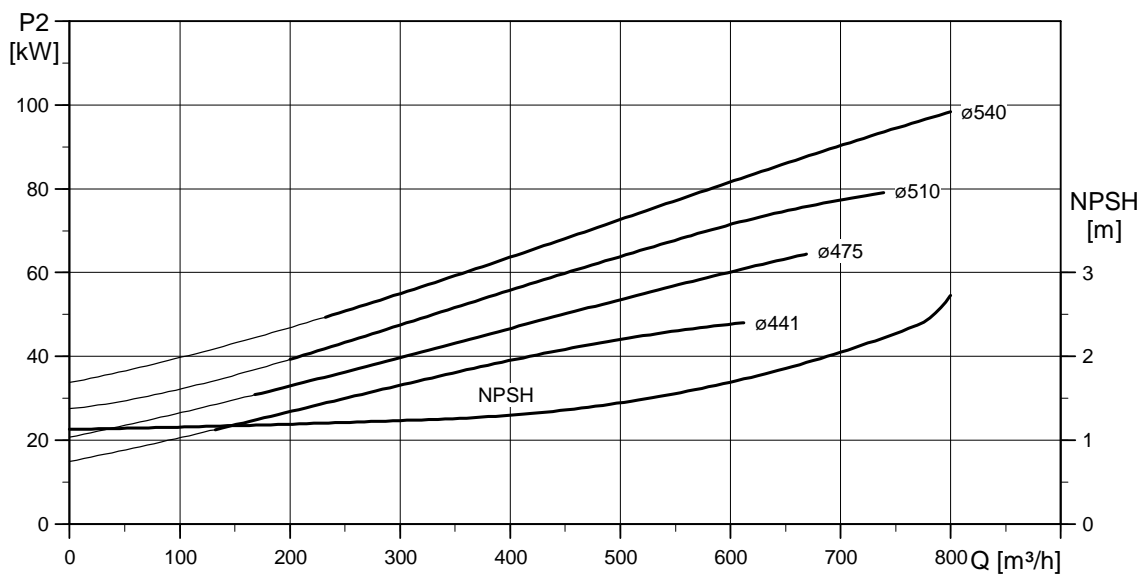
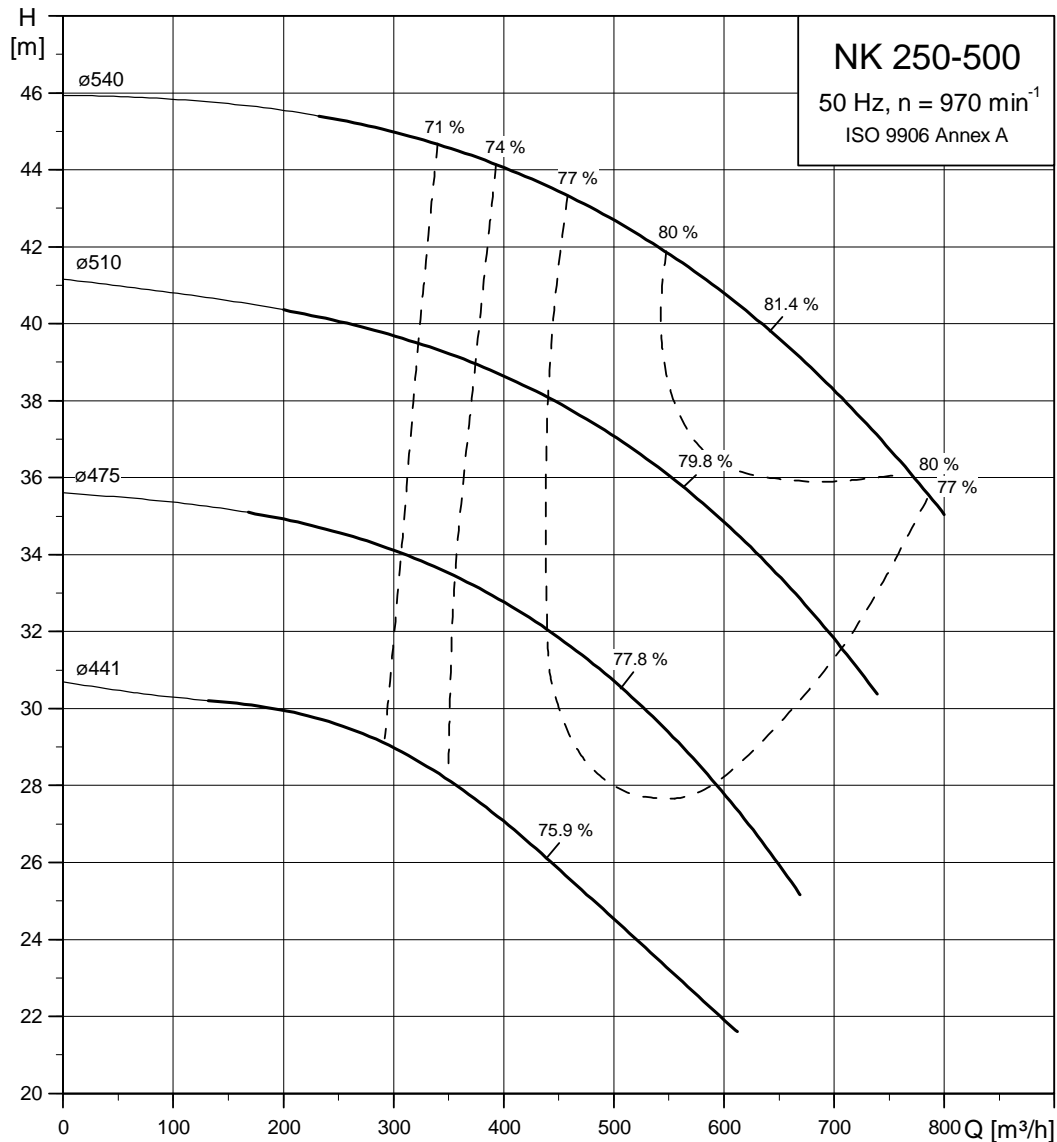
TM03 1282 1505

| NK 250-400* | | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|---------------|
| kW | | 18,5 | 22 | 30 | 37 | 45 | 55 |
| Gama de motor estándar | | MMG 200LA-E | MMG 200LB-E | MMG 225M-E | MMG 250M-E | MMG 280S-E | MMG 280M-E |
| Gama de motor alta | | MMG 200LA-D | MMG 200LB-D | MMG 225M-D | MMG 250M-D | MMG 280S-D | MMG 280M-D |
| Gama de motor eléctrico | | - | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 | 10 |
| DN _s | [mm] | 250 | 250 | 250 | 250 | 250 | 250 |
| DN _d | [mm] | 300 | 300 | 300 | 300 | 300 | 300 |
| a | [mm] | 200 | 200 | 200 | 200 | 200 | 200 |
| a ₂ | [mm] | 175 | 175 | 175 | 175 | 175 | 175 |
| h | [mm] | 160 | 160 | 160 | 180 | 180 | 180 |
| h ₂ | [mm] | 600 | 600 | 600 | 600 | 600 | 600 |
| h ₃ | [mm] | 470 | 470 | 470 | 470 | 480 | 480 |
| h ₄ ¹⁾ | [mm] | 767/797/- | 767/797/- | 790/836/- | 829/855/- | 866/899/- | 866/899/- |
| Acoplamiento estándar | | | | | | | |
| l ₁ | [mm] | 1701/1723/- | 1701/1723/- | 1781/1832/- | 1854/1916/- | 1889/1982/- | 1940/2032,5/- |
| l ₁ | [mm] | 1800 | 1800 | 1800 | 1900 | 1900 | 2000 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1500 | 1500 | 1500 | 1600 | 1600 | 1700 |
| b ₁ | [mm] | - | - | - | - | - | - |
| b ₂ | [mm] | 850 | 850 | 850 | 850 | 860 | 860 |
| b ₃ | [mm] | 790 | 790 | 790 | 790 | 795 | 795 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 836/813/- | 851/823/- | 902/896/- | 1009/1001/- | 1241/1183/- | 1211/1140/- |
| Acoplamiento espaciador | | | | | | | |
| l ₁ | [mm] | 1897/1919/- | 1897/1919/- | 1977/2028/- | 2050/2112/- | 2083/2176/- | 2134/2227/- |
| l ₁ | [mm] | 1900 | 1900 | 2000 | 2100 | 2100 | 2100 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1600 | 1600 | 1700 | 1800 | 1800 | 1800 |
| b ₁ | [mm] | - | - | - | - | - | - |
| b ₂ | [mm] | 850 | 850 | 850 | 850 | 860 | 860 |
| b ₃ | [mm] | 790 | 790 | 790 | 790 | 795 | 795 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 843/820/- | 858/830/- | 912/906/- | 1080/1072/- | 1287/1229/- | 1355/1284/- |

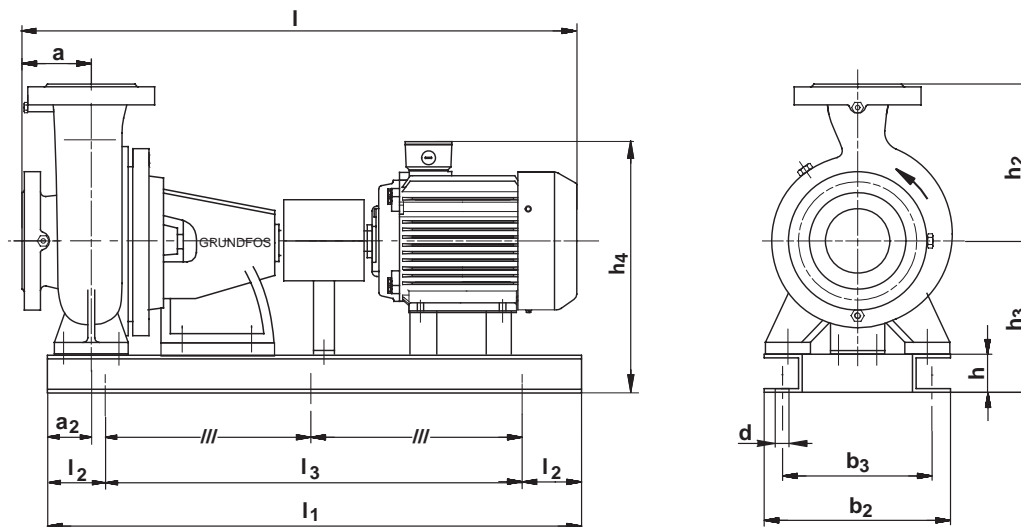
1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

Curvas de rendimiento

NK 250-500
6 polos



TM01 2899 3102



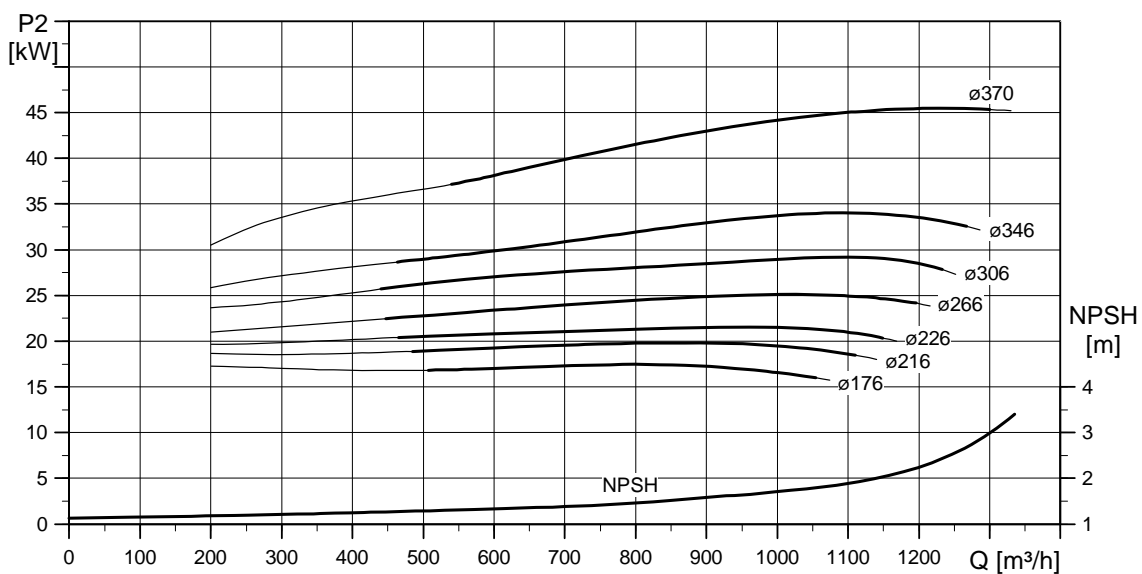
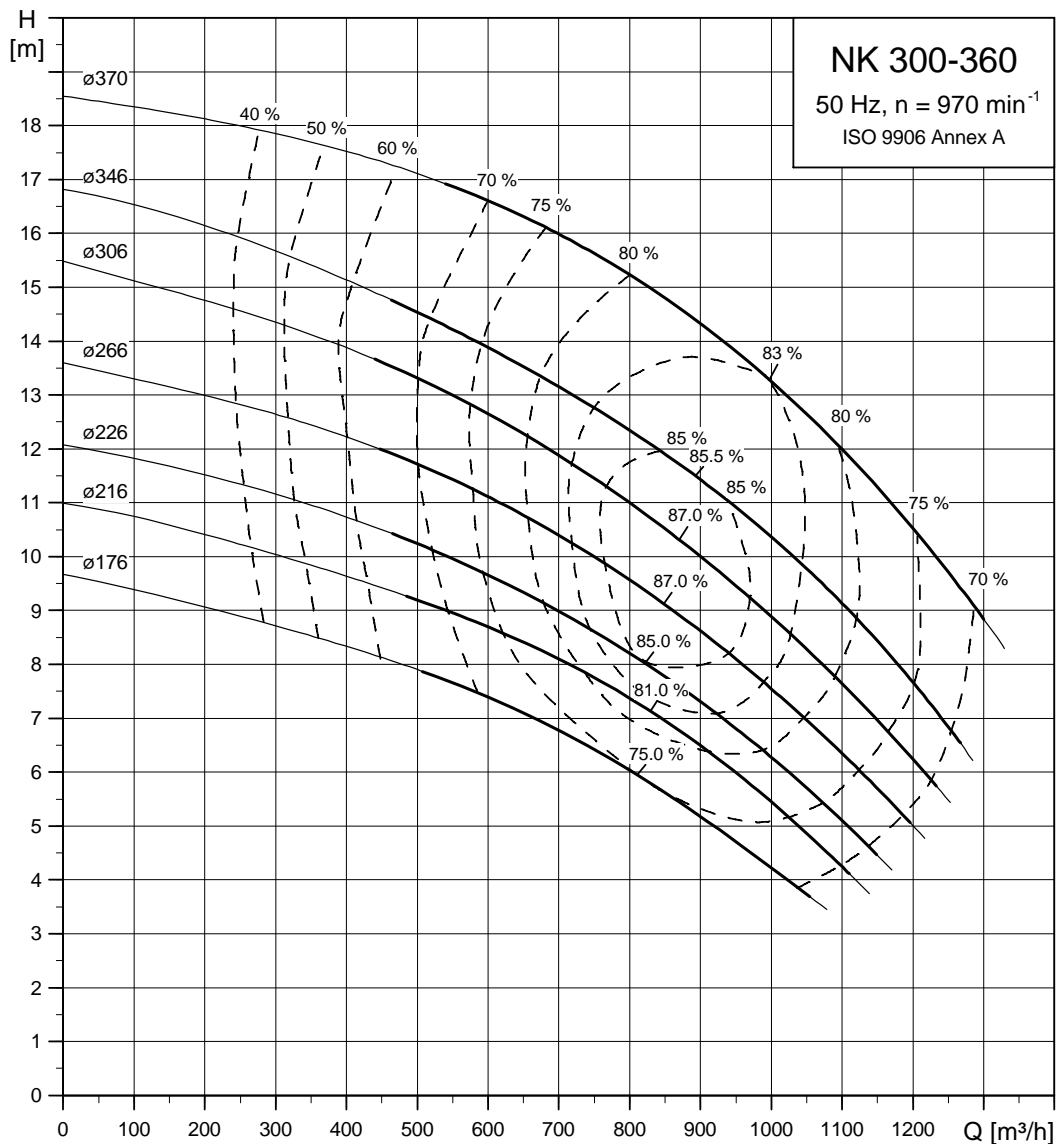
TM03 1282 1505

| NK 250-500* | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| kW | | 45 | 55 | 75 | 90 | 110 |
| Gama de motor estándar | | MMG 280S-E | MMG 280M-E | MMG 315S-E | MMG 315M-E | MMG 315LA-E |
| Gama de motor alta | | MMG 280S-D | MMG 280M-D | MMG 315S-D | MMG 315MA-D | MMG 315MB-D |
| Gama de motor eléctrico | | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 |
| DN _s | [mm] | 250 | 250 | 250 | 250 | 250 |
| DN _d | [mm] | 300 | 300 | 300 | 300 | 300 |
| a | [mm] | 300 | 300 | 300 | 300 | 300 |
| a ₂ | [mm] | 175 | 175 | 175 | 185 | 185 |
| h | [mm] | 180 | 180 | 180 | 180 | 200 |
| h ₂ | [mm] | 660 | 660 | 660 | 660 | 660 |
| h ₃ | [mm] | 490 | 490 | 495 | 515 | 515 |
| h ₄ ¹⁾ | [mm] | 876/909/- | 876/909/- | 966/1007/- | 986/1027/- | 986/1027/- |
| Acoplamiento estándar | | | | | | |
| l ₁ ¹⁾ | [mm] | 1999/2092/- | 2050/2143/- | 2260/2180/- | 2373/2180/- | 2373/2180/- |
| l ₁ | [mm] | 2000 | 2000 | 2200 | 2200 | 2200 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1700 | 1700 | 1900 | 1900 | 1900 |
| b ₁ | [mm] | - | - | - | - | - |
| b ₂ | [mm] | 945 | 945 | 945 | 955 | 955 |
| b ₃ | [mm] | 880 | 880 | 880 | 885 | 885 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 1249/1191/- | 1317/1246/- | 1744/1372/- | 1826/1566/- | 1891/1641/- |
| Acoplamiento espaciador | | | | | | |
| l ₁ ¹⁾ | [mm] | 2193/2286/- | 2244/2337/- | 2454/2374/- | 2567/2374/- | 2567/2374/- |
| l ₁ | [mm] | 2200 | 2200 | 2400 | 2400 | 2400 |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1900 | 1900 | 2100 | 2100 | 2100 |
| b ₁ | [mm] | - | - | - | - | - |
| b ₂ | [mm] | 945 | 945 | 955 | 955 | 955 |
| b ₃ | [mm] | 880 | 880 | 885 | 885 | 885 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 1272/1214/- | 1340/1269/- | 1769/1397/- | 1846/1586/- | 1916/1666/- |

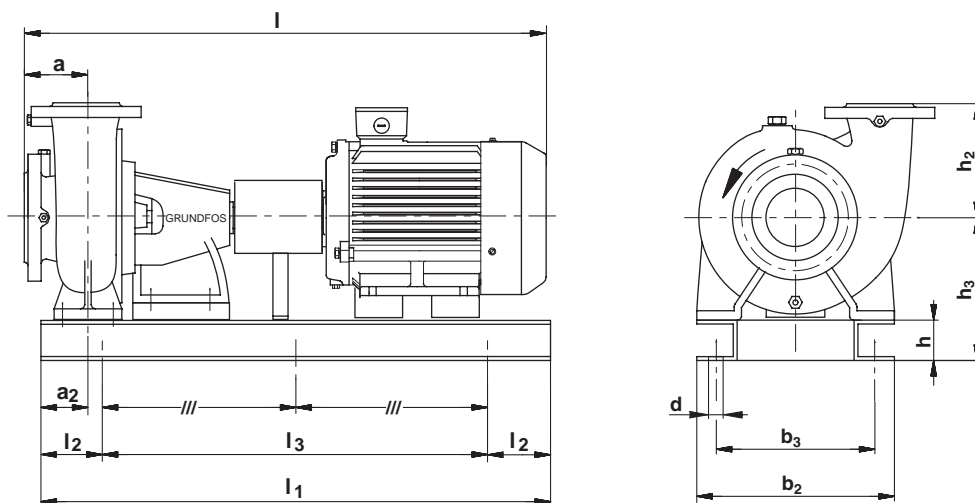
1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

Curvas de rendimiento

NK 300-360
6 polos



TM01 1717 0499



TM03 1279 1505

| NK 300-360* | | | | | | |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| kW | | 22 | 30 | 37 | 45 | 55 |
| Gama de motor estándar | | MMG 200LB-E | MMG 225M-E | MMG 250M-E | MMG 280S-E | MMG 280M-E |
| Gama de motor alta | | MMG 200LB-D | MMG 225M-D | MMG 250M-D | MMG 280S-D | MMG 280M-D |
| Gama de motor eléctrico | | - | - | - | - | - |
| PN | [bar] | 10 | 10 | 10 | 10 | 10 |
| DN _s | [mm] | 300 | 300 | 300 | 300 | 300 |
| DN _d | [mm] | 300 | 300 | 300 | 300 | 300 |
| a | [mm] | 300 | 300 | 300 | 300 | 300 |
| a ₂ | [mm] | 180 | 180 | 180 | 180 | 180 |
| h | [mm] | 180 | 180 | 180 | 180 | 180 |
| h ₂ | [mm] | 440 | 440 | 440 | 440 | 440 |
| h ₃ | [mm] | 700 | 700 | 700 | 700 | 700 |
| h ₄ ¹⁾ | [mm] | 997/1027/- | 1020/1066/- | 1059/1085/- | 1086/1119/- | 1086/1119/- |
| Acoplamiento estándar | | | | | | |
| l ₁ | [mm] | 1821/1843/- | 1901/1952/- | 1974/2036/- | 2009/2102/- | 2060/2153/- |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1500 | 1600 | 1600 | 1700 | 1700 |
| b ₁ | [mm] | - | - | - | - | - |
| b ₂ | [mm] | 860 | 860 | 860 | 860 | 860 |
| b ₃ | [mm] | 795 | 795 | 795 | 795 | 795 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 1108/1080/- | 1164/1158/- | 1262/1254/- | 1288/1230/- | 1356/1285/- |
| Acoplamiento espaciador | | | | | | |
| l ₁ | [mm] | 2097/2119/- | 2177/2228/- | 2250/2312/- | 2283/2376/- | 2334/2427/- |
| l ₂ | [mm] | 150 | 150 | 150 | 150 | 150 |
| l ₃ | [mm] | 1700 | 1800 | 1800 | 1800 | 1900 |
| b ₁ | [mm] | - | - | - | - | - |
| b ₂ | [mm] | 860 | 860 | 860 | 860 | 860 |
| b ₃ | [mm] | 795 | 795 | 795 | 795 | 795 |
| d | [mm] | 18 | 18 | 18 | 18 | 18 |
| Peso ¹⁾ | Neto [kg] | 1044/1016/- | 1228/1222/- | 1320/1312/- | 1450/1392/- | 1474/1403/- |

1) Dimensión de la bomba con un motor de gama estándar/ de gama alta/convertidor de frecuencia intergrado.

Bancadas

Los siguientes planos de dimensiones muestran las dimensiones de las bancadas montadas en las bombas NK, NKE.

El número de modelo de la bancada se indica para cada bomba NK, NKE mencionada en la sección "Datos técnicos/ curvas de rendimiento".

| Número de modelo de bancada | Bancada | |
|-----------------------------|---------|----------------|
| 2 | | TM03 7714 4806 |
| 3 | | TM03 7715 4806 |
| 4 | | TM03 7716 4806 |
| 5 | | TM03 7717 4806 |
| 6 | | TM03 7718 4806 |

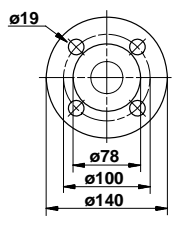
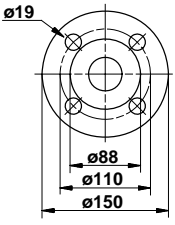
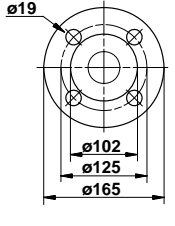
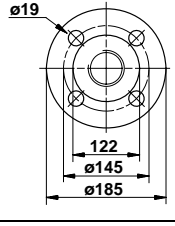
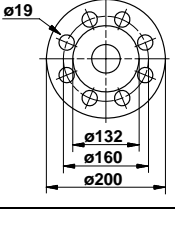
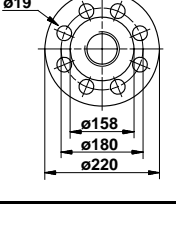
| Número de modelo de bancada | Bancada | |
|-----------------------------|---------|----------------|
| 7 | | TM03 7719 4806 |
| 8 | | TM03 7720 4806 |
| 9 | | TM03 7721 4806 |
| 10 | | TM03 7722 0807 |
| 11 | | TM03 7723 0807 |

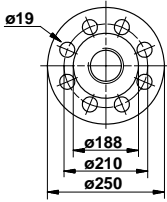
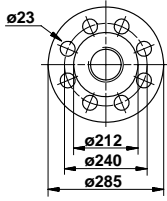
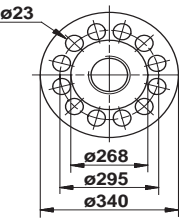
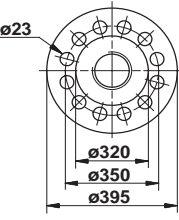
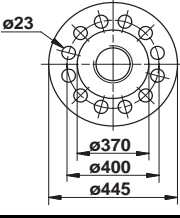
Contrabridas

Bombas en fundición

Las contrabridas para bombas NB(E) y NK(E) en fundición son de acero.

Un kit se compone de una contrabrida, una junta de material libre de amianto y el número necesario de pernos y tuercas.

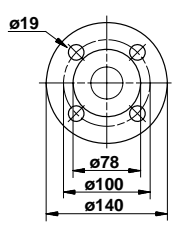
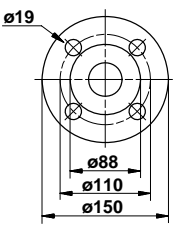
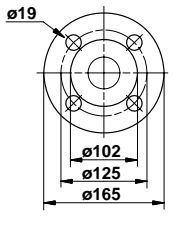
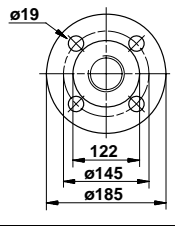
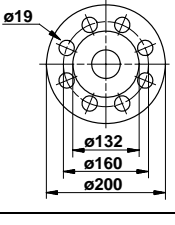
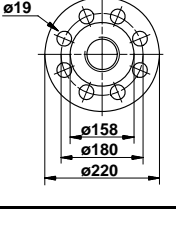
| Contrabrida | Tamaño de brida | Descripción | Presión nominal | Conexión a tubería | Código | |
|-------------------------------------------------------------------------------------|-----------------|-------------|-----------------|----------------------|--------|--------|
|  | TM03 0400 5004 | DN 32 | Roscada | 10/16 bar, EN 1092-2 | Rp 1½ | 419901 |
| | | | Para soldar | 10/16 bar, EN 1092-2 | 32 mm | 419902 |
|  | TM03 0401 5004 | DN 40 | Roscada | 10/16 bar, EN 1092-2 | Rp 1½ | 429902 |
| | | | Para soldar | 10/16 bar, EN 1092-2 | 40 mm | 429901 |
|  | TM03 0402 5004 | DN 50 | Roscada | 10/16 bar, EN 1092-2 | Rp 2 | 339903 |
| | | | Para soldar | 10/16 bar, EN 1092-2 | 50 mm | 339901 |
|  | TM03 0403 5004 | DN 65 | Roscada | 10/16 bar, EN 1092-2 | Rp 2½ | 349902 |
| | | | Para soldar | 10/16 bar, EN 1092-2 | 65 mm | 349904 |
|  | TM03 2117 3705 | DN 80 | Roscada | 10/16 bar, EN 1092-2 | Rp 3 | 350540 |
| | | | Para soldar | 10/16 bar, EN 1092-2 | 80 mm | 350541 |
|  | TM03 0405 5004 | DN 100 | Roscada | 10/16 bar, EN 1092-2 | Rp 4 | 369901 |
| | | | Para soldar | 10/16 bar, EN 1092-2 | 100 mm | 369902 |

| Contrabrida | Tamaño de brida | Descripción | Presión nominal | Conexión a tubería | Código |
|-------------------------------------------------------------------------------------|--------------------------|-------------|----------------------|--------------------|----------|
|  | TM03 0406 5004 DN 125 | Para soldar | 10/16 bar, EN 1092-2 | 125 mm | 96414677 |
|  | TM03 0407 5004 DN 150 | Para soldar | 10/16 bar, EN 1092-2 | 150 mm | 96414676 |
|  | TM03 0408 0807 DN 200 | Para soldar | 10 bar, EN 1092-2 | 200 mm | 96413358 |
|  | TM03 0270 0807 DN 250 | Para soldar | 10 bar, EN 1092-2 | 250 mm | 96691156 |
|  | TM03 0271 0807 DN 300 | Para soldar | 10 bar, EN 1092-2 | 300 mm | 96691157 |

Bombas en acero inoxidable

Las contrabridas para bombas NB(E) y NK(E) en acero inoxidable son de acero inoxidable según EN 1.4401 (AISI 316).

Un kit se compone de una contrabrida, una junta de material libre de amiento y el número necesario de pernos y tuercas.

| Contrabrida | Tamaño de brida | Descripción | Presión nominal | Conexión a tubería | Código |
|-------------------------------------------------------------------------------------|-----------------|-------------|----------------------|--------------------|--------|
|  | TM03 0400 5004 | Roscada | 10/16 bar, EN 1092-2 | Rp 1½ | 415304 |
| | | Para soldar | 10/16 bar, EN 1092-2 | 32 mm | 415305 |
|  | TM03 0401 5004 | Roscada | 10/16 bar, EN 1092-2 | Rp 1½ | 425245 |
| | | Para soldar | 10/16 bar, EN 1092-2 | 40 mm | 425246 |
|  | TM03 0402 5004 | Roscada | 10/16 bar, EN 1092-2 | Rp 2 | 335254 |
| | | Para soldar | 10/16 bar, EN 1092-2 | 50 mm | 335255 |
|  | TM03 0403 5004 | Roscada | 10/16 bar, EN 1092-2 | Rp 2½ | 349910 |
| | | Para soldar | 10/16 bar, EN 1092-2 | 65 mm | 349906 |
|  | TM03 2117 3705 | Roscada | 10/16 bar, EN 1092-2 | Rp 3 | 350543 |
| | | Para soldar | 10/16 bar, EN 1092-2 | 80 mm | 350544 |
|  | TM03 0405 5004 | Roscada | 10/16 bar, EN 1092-2 | Rp 4 | 369904 |
| | | Para soldar | 10/16 bar, EN 1092-2 | 100 mm | 369903 |

Sensores

| Accesorio | Tipo | Proveedor | Rango de medida | Código |
|-------------------------------------------------------------------|----------------------------------|----------------------|---------------------------------------|----------|
| Medidor de caudal | SITRANS F M MAGFLO MAG 5100 W | Siemens | 1 - 5 m ³ /h (DN 25) | ID8285 |
| Medidor de caudal | SITRANS F M MAGFLO MAG 5100 W | Siemens | 3 - 10 m ³ /h (DN 40) | ID8286 |
| Medidor de caudal | SITRANS F M MAGFLO MAG 5100 W | Siemens | 6 - 30 m ³ /h (DN 65) | ID8287 |
| Medidor de caudal | SITRANS F M MAGFLO MAG 5100 W | Siemens | 20 - 75 m ³ /h (DN 100) | ID8288 |
| Sensor de temperatura | TTA (0) 25 | Carlo Gavazzi | 0°C a +25°C | 96432591 |
| Sensor de temperatura | TTA (-25) 25 | Carlo Gavazzi | -25°C a +25°C | 96430194 |
| Sensor de temperatura | TTA (50) 100 | Carlo Gavazzi | 50°C a +100°C | 96432592 |
| Sensor de temperatura | TTA (0) 150 | Carlo Gavazzi | 0°C a +150°C | 96430195 |
| Accesorio para sensor de temperatura. Todos con conexión ½ RG. | Tubo protector ø9 x 50 mm | Carlo Gavazzi | | 96430201 |
| | Tubo protector ø9 x 100 mm | Carlo Gavazzi | | 96430202 |
| | Anillo de corte | Carlo Gavazzi | | 96430203 |
| Sensor de temperatura, temperatura ambiente | WR 52 | tmg (DK: Plesner) | -50°C a +50°C | ID8295 |
| Sensor de temperatura diferencial | ETSD | Honsberg | 0°C a +20°C | 96409362 |
| Sensor de temperatura diferencial | ETSD | Honsberg | 0°C a +50°C | 96409363 |

Note: Todos los sensores tienen una señal de salida de 4-20 mA.

Sensores para aplicaciones de aumento de presión

| Kit de sensor de presión Danfoss | Rango de presión | Código |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|
| <ul style="list-style-type: none"> Conexión: G ½ A (DIN 16288 - B6kt) Conexión eléctrica: Conector (DIN 43650) | 0 - 2,5 bar | 96478188 |
| | 0 - 4 bar | 91072075 |
| | 0 - 6 bar | 91072076 |
| | 0 - 10 bar | 91072077 |
| | 0 - 16 bar | 91072078 |
| <ul style="list-style-type: none"> Sensor de presión, tipo MBS 3000, con 2 m de cable apantallado Conexión: G ¼ A (DIN 16288 - B6kt) 5 pinzas de cable (negra) Instrucciones de montaje PT (00400212) | 0 - 2,5 bar | 405159 |
| | 0 - 4 bar | 405160 |
| | 0 - 6 bar | 405161 |
| | 0 - 10 bar | 405162 |
| | 0 - 16 bar | 405163 |

Sensores para aplicaciones de circulación

| Sensor de presión diferencial Grundfos, DPI | Rango de presión | Código |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|
| <ul style="list-style-type: none"> 1 sensor incl. 0,9 m de cable apantallado (conexiones 7/16") 1 soporte DPI original (para montaje en la pared) 1 soporte Grundfos (para montaje en el motor) 2 tornillos M4 para montaje del sensor en el soporte 1 tornillo M6 (autocortante) para el montaje en MGE 90/100 1 tornillo M8 (autocortante) para el montaje en MGE 112/132 1 tornillo M10 (autocortante) para el montaje en MMGE 160 1 tornillo M12 (autocortante) para el montaje en MMGE 180 3 tubos capilares (corto/largo) 2 racores (1/4" - 7/16") 5 pinzas de cable (negra) instrucciones de funcionamiento e instalación Instrucciones del kit de repuestos | 0 - 0,6 bar | 96611522 |
| | 0 - 1,0 bar | 96611523 |
| | 0 - 1,6 bar | 96611524 |
| | 0 - 2,5 bar | 96611525 |
| | 0 - 4,0 bar | 96611526 |
| | 0 - 6,0 bar | 96611527 |
| | 0 - 10 bar | 96611550 |

Seleccionar el sensor de presión diferencial de la bomba de modo que la presión máxima del sensor sea superior a la presión diferencial máxima de la bomba.

Potenciómetro

Potenciómetro para regulación del punto de ajuste y arranque/parada de la bomba.

| Producto | Código |
|-----------------------------------------------------|--------|
| Potenciómetro externo con cuadro para montaje mural | 625468 |

R100

R100 se utiliza para comunicación inalámbrica. La comunicación se realiza mediante radios infrarojos.

| Producto | Código |
|----------|--------|
| R100 | 625333 |

Interfase G10-LON

La interfase G10-LON se utiliza para la transmisión de datos entre una red local (LON) y bombas Grundfos controladas electrónicamente mediante el protocolo GENibus de Grundfos.

| Producto | Código |
|-------------------|----------|
| Interfase G10-LON | 00605726 |

Calzos (NB)

Los calzos de acero se utilizan para compensar las diferencias dimensionales entre el alojamiento de la bomba y los tamaños de bancada del motor. Los calzos pueden instalarse debajo el motor o de las patas del alojamiento de la bomba durante la instalación, permitiendo la alineación horizontal de la bomba.

Los códigos indicados en las siguientes tablas se refieren a un kit de dos calzos con las dimensiones especificadas.

Los tornillos de cabeza hexagonal, arandelas y tuercas se suministran con calzos superiores a 20 mm.

NB 50 Hz, 2 polos

| Tipo de bomba | P ₂ [kW] | Dimensiones A x L x H [mm] | Número de calzos | Código | | | |
|---------------|---------------------|----------------------------|------------------|----------|-----------|---|----------|
| 32-125 | 3 | 50x100x20 | 2 | 96434610 | | | |
| 32-200 | 11 | 80x332x20 | 3 | 96434611 | | | |
| | | 50x100x20 | | 96434610 | | | |
| 32-250 | 11, 15 | 80x332x20 | 1 | 96434611 | | | |
| 32-160 | 5,5 | 50x100x20 | 2 | 96434610 | | | |
| 40-125 | 3 | | | | | | |
| 40-125 | 4 | | | | | | |
| 40-160 | 5,5 | | | | | | |
| 40-160 | 7,5 | | | | | | |
| 40-200 | 11 | | | | | | |
| 40-200 | 15 | | | | | | |
| 40-250 | 11 | | | | 80x332x20 | 1 | 96434611 |
| 40-250 | 15 | | | | | | |
| 40-250 | 18,5 | | | | | | |
| 50-125 | 5,5 | 50x100x20 | 2 | 96434610 | | | |
| 50-125 | 7,5 | | | | | | |
| 50-160 | 11 | | | | | | |
| 50-160 | 15 | | | | | | |
| 50-200 | 11 | | | | | | |
| 50-200 | 15 | | | | 80x332x20 | 1 | 96434611 |
| 50-200 | 18,5 | | | | | | |
| 50-250 | 15 | | | | | | |
| 50-250 | 18,5 | | | | | | |
| 65-125 | 11 | | | | 80x332x20 | 3 | 96434611 |
| | | 70x125x20 | 96434612 | | | | |
| 65-160 | 11 | 80x332x20 | 1 | 96434611 | | | |
| 65-160 | 15 | | | | | | |
| 65-160 | 18,5 | | | | | | |
| 65-200 | 11 | | | | | | |
| 65-200 | 15 | | | | | | |
| 65-200 | 18,5 | | | | | | |
| 80-160 | 11 | | | | | | |
| 80-160 | 15 | | | | | | |
| 80-160 | 18,5 | | | | | | |
| 80-200 | 30 | | | | 70x125x20 | 2 | 96434612 |
| 80-200 | 37 | | | | | | |

NB 50 Hz, 4 polos

| Tipo de bomba | P ₂ [kW] | Dimensiones A x L x H [mm] | Número de calzos | Código |
|---------------|---------------------|----------------------------|------------------|----------|
| 50-315 | 11 | 90x335x65 | 1 | 96434605 |
| 65-315 | 11 | | | |
| 65-315 | 15 | | | |
| 80-250 | 11 | 100x332x40 | | 96434609 |
| 80-315 | 11 | 90x335x90 | | 96434606 |
| 80-315 | 15 | | | |
| 80-315 | 18,5 | 100x320x70 | | 96434607 |
| 80-315 | 22 | | | |
| 100-200 | 11 | | | |
| 100-250 | 11 | 90x335x65 | 1 | 96434605 |
| 100-250 | 15 | | | |
| 100-315 | 15 | 90x335x90 | | 96434606 |
| 100-315 | 18,5 | 100x320x70 | | 96434607 |
| 100-315 | 22 | | | |
| 125-200 | 15 | 90x335x90 | | 96434606 |
| 125-200 | 11 | | | |
| 125-250 | 11 | | | |
| 125-250 | 15 | 100x320x70 | | 96434607 |
| 125-250 | 18,5 | | | |
| 125-250 | 22 | | | |
| 150-200 | 11 | 80x290x120 | | 96434608 |

NB 50 Hz, 6 polos

| Tipo de bomba | P ₂ [kW] | Dimensiones A x L x H [mm] | Número de calzos | Código |
|---------------|---------------------|----------------------------|------------------|----------|
| 100-315 | 7,5 | 90x335x90 | 1 | 96434606 |
| 100-315 | 11 | | | |
| 100-400 | 7,5 | 80x290x120 | | 96434608 |
| 125-250 | 7,5 | 90x335x90 | | 96434606 |
| 125-315 | 7,5 | 80x290x120 | | 96434608 |
| 150-250 | 7,5 | | | |

Explicación de los números de calzos

| Número | Descripción |
|--------|-----------------------------------------------------------------------------------------------|
| 1 | Calzos para instalar debajo de las patas del motor |
| 2 | Calzos para instalar debajo de las patas del alojamiento de la bomba |
| 3 | Calzos para instalar debajo de las patas del motor y de las patas del alojamiento de la bomba |

Datos eléctricos

Las siguientes tablas indican los datos eléctricos de los motores

- MMG modelo E
- TECO, rendimiento 2/rendimiento estándar
- TECO, rendimiento 1/alto rendimiento.

MMG modelo E, 2 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|--------|---------------------|---------|----------------------|-------|----------------------|------------------------|---------------------------------------------|
| MMG | 71 | 3x220-240Δ/380-415Y | 0,55 | 2,18/1,26 | 73,0 | 0,82 | 2790 | 6,5 |
| MMG | 80 | | 0,75 | 2,88/1,66 | 75,0 | 0,83 | 2820 | 6,1 |
| MMG | 80 | | 1,1 | 4,00/2,30 | 76,2 | 0,84 | 2820 | 6,6 |
| MMG | 90S | | 1,5 | 5,75/3,30 | 78,5 | 0,83 | 2830 | 7,5 |
| MMG | 90L | | 2,2 | 7,90/4,55 | 81,0 | 0,85 | 2830 | 7,3 |
| MMG | 100L | | 3 | 10,2/5,90 | 82,6 | 0,87 | 2860 | 7,5 |
| MMG | 112M | | 4 | 13,6/7,80 | 84,2 | 0,87 | 2890 | 7,7 |
| MMG | 90L | 3x380-415Δ | 2,2 | 4,60/2,70 | 81,0 | 0,85 | 2830 | 7,3 |
| MMG | 100L | | 3 | 5,90/3,40 | 82,6 | 0,87 | 2860 | 7,5 |
| MMG | 112M | | 4 | 7,80/4,50 | 84,2 | 0,87 | 2890 | 7,7 |
| MMG | 132S | | 5,5 | 10,2/6,00 | 85,7 | 0,88 | 2910 | 7,9 |
| MMG | 132S | | 7,5 | 13,6/7,90 | 87,0 | 0,89 | 2900 | 7,8 |

MMG modelo E, 4 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|--------|---------------------|---------|----------------------|-------|----------------------|------------------------|---------------------------------------------|
| MMG | - | 3x220-240Δ/380-415Y | 0,55 | 2,60/1,50 | 71,0 | 0,72 | 1410 | 5,3 |
| MMG | - | | 0,75 | 3,30/1,90 | 73,0 | 0,75 | 1400 | 5,4 |
| MMG | - | | 1,1 | 4,35/2,50 | 76,2 | 0,80 | 1390 | 5,9 |
| MMG | - | | 1,5 | 6,00/3,45 | 78,5 | 0,79 | 1400 | 5,8 |
| MMG | - | | 2,2 | 7,95/4,60 | 81,0 | 0,84 | 1430 | 6,9 |
| MMG | - | | 3 | 11,6/6,70 | 82,6 | 0,78 | 1440 | 7,9 |
| MMG | - | | 4 | 14,2/8,10 | 84,2 | 0,84 | 1440 | 7,6 |
| MMG | - | 3x380-415Δ | 2,2 | 4,70/2,70 | 81,0 | 0,84 | 1430 | 6,9 |
| MMG | - | | 3 | 6,70/3,90 | 82,6 | 0,78 | 1440 | 7,9 |
| MMG | - | | 4 | 8,10/4,70 | 84,2 | 0,84 | 1440 | 7,6 |
| MMG | - | | 5,5 | 10,6/6,15 | 85,7 | 0,85 | 1450 | 7,4 |

TECO, rendimiento 2/rendimiento estándar, 2 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|--------|---------------------|------------|----------------------|------------|----------------------|------------------------|---------------------------------------------|
| TECO | 80 | 3x220-240Δ/380-415Y | 0,75 | 3,00/1,74 | 76,5 | 0,86 | 2780 | 6,6 |
| TECO | 80 | | 1,1 | 4,30/2,50 | 79,0 | 0,86 | 2790 | 7,6 |
| TECO | 90S | | 1,5 | 5,80/3,35 | 80,0 | 0,86 | 2810 | 7,2 |
| TECO | 90L | | 2,2 | 8,35/4,85 | 82,3 | 0,85 | 2830 | 7,6 |
| TECO | 100L | | 3 | 10,8/6,25 | 83,8 | 0,88 | 2840 | 7,3 |
| TECO | 112M | | 4 | 14,0/8,10 | 85,3 | 0,89 | 2850 | 7,8 |
| TECO | 90L | | 2,2 | 4,60 -4,45 | 82,3 -82,1 | 0,88 -0,84 | 2830 -2850 | 7,6-8,2 |
| TECO | 100L | 3 | 6,20 -5,85 | 83,8 -83,5 | 0,88 -0,85 | 2840 -2860 | 7,3-8,0 | |
| TECO | 112M | 3x380-415Δ | 4 | 8,00 -7,60 | 85,3 -85,0 | 0,89 -0,86 | 2850 -2870 | 7,9-8,6 |
| TECO | 132S | | 5,5 | 10,8 -10,2 | 86,3 -86,7 | 0,90 -0,86 | 2900 -2920 | 6,0-7,1 |
| TECO | 132S | | 7,5 | 14,8 -13,8 | 87,2 -88,0 | 0,89 -0,86 | 2870 -2890 | 6,0-7,3 |

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|--------|---------------------|---------|----------------------|-------|----------------------|------------------------|------------------------------------------|
| TECO | 160M | 3x380-415Δ/660-690Y | 11 | 21,0/12,2 | 88,5 | 0,89 | 2900 | 7,3 |
| TECO | 160M | | 15 | 27,5/16,0 | 90,5 | 0,91 | 2910 | 7,5 |
| TECO | 160L | | 18,5 | 34,0/19,6 | 91,0 | 0,91 | 2920 | 7,3 |
| TECO | 180MA | | 22 | 40,5/23,6 | 91,5 | 0,90 | 2920 | 7,2 |
| TECO | 200LA | | 30 | 56,5/32,5 | 91,0 | 0,89 | 2930 | 7,0 |
| TECO | 200LA | | 37 | 68,5/39,5 | 91,5 | 0,90 | 2930 | 7,2 |
| TECO | 225MA | | 45 | 82,5/47,5 | 91,0 | 0,91 | 2930 | 6,7 |
| TECO | 250SA | | 55 | 102/58,5 | 91,7 | 0,90 | 2950 | 6,7 |
| TECO | 250MA | | 75 | 138/79,5 | 92,4 | 0,90 | 2950 | 6,8 |
| TECO | 280SA | | 90 | 164/94 | 93,0 | 0,90 | 2950 | 6,5 |
| TECO | 280MA | | 110 | 200/116 | 93,0 | 0,90 | 2960 | 6,5 |
| TECO | 315SA | | 132 | 240/138 | 93,2 | 0,90 | 2960 | 6,5 |
| TECO | 315MA | | 160 | 290/168 | 93,2 | 0,90 | 2960 | 6,5 |
| TECO | 315MA | | 200 | 355/206 | 93,5 | 0,91 | 2960 | 6,4 |
| TECO | 355MA | | 250 | 430/248 | 95,3 | 0,93 | 2980 | 7,1 |
| TECO | 355LA | | 315 | 535/310 | 95,6 | 0,94 | 2980 | 7,1 |

TECO, rendimiento 2/rendimiento estándar, 4 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|--------|---------------------|------------|----------------------|------------|----------------------|------------------------|------------------------------------------|
| TECO | 71 | 3x220-240Δ/380-415Y | 0,25 | 1,38/0,80 | 68,5 | 0,70 | 1390 | 5,3 |
| TECO | 71 | | 0,37 | 2,00/1,16 | 68,5 | 0,71 | 1380 | 5,0 |
| TECO | 80 | | 0,55 | 2,70/1,56 | 73,5 | 0,73 | 1400 | 5,6 |
| TECO | 80 | | 0,75 | 3,55/2,06 | 75,3 | 0,74 | 1400 | 5,5 |
| TECO | 90S | | 1,1 | 4,85/2,80 | 77,8 | 0,77 | 1400 | 6,0 |
| TECO | 90L | | 1,5 | 6,15/3,55 | 80,0 | 0,80 | 1400 | 6,2 |
| TECO | 100L | | 2,2 | 8,80/5,10 | 82,3 | 0,80 | 1410 | 6,7 |
| TECO | 100L | | 3 | 11,8/6,80 | 83,2 | 0,81 | 1410 | 6,7 |
| TECO | 112M | | 4 | 15,2/8,80 | 85,3 | 0,81 | 1420 | 7,2 |
| TECO | 100L | | 2,2 | 5,05 -4,60 | 82,0 -81,0 | 0,81 -0,82 | 1430 | 6,7 |
| TECO | 100L | 3 | 6,80 -6,15 | 82,5 -82,0 | 0,82 -0,83 | 1430 | 7,4 | |
| TECO | 112M | 4 | 8,80 -8,00 | 84,5 -84,0 | 0,82 -0,83 | 1440 | 7,1 | |
| TECO | 132S | 3x380-415Δ | 5,5 | 11,8/6,75 | 86,0 | 0,83 | 1450 | 6,6 |
| TECO | 132M | | 7,5 | 15,4/8,90 | 88,0 | 0,84 | 1450 | 6,8 |
| TECO | 160M | | 11 | 21,6/12,2 | 89,0 | 0,88 | 1450 | 7,3 |
| TECO | 160L | | 15 | 29,0/16,8 | 90,0 | 0,87 | 1460 | 7,2 |
| TECO | 180MC | | 18,5 | 36,0/21,0 | 91,0 | 0,86 | 1460 | 6,8 |
| TECO | 180LC | | 22 | 42,0/24,6 | 91,0 | 0,87 | 1460 | 7,0 |
| TECO | 200LC | | 30 | 57,5/33,0 | 91,5 | 0,87 | 1460 | 6,9 |
| TECO | 225SC | | 37 | 71,0/41,0 | 91,7 | 0,87 | 1460 | 7,0 |
| TECO | 225MC | | 45 | 85,5/49,5 | 92,4 | 0,87 | 1460 | 6,5 |
| TECO | 250SC | | 55 | 104/60,0 | 92,4 | 0,87 | 1470 | 6,5 |
| TECO | 250MC | | 75 | 140/80,5 | 93,0 | 0,88 | 1480 | 6,7 |
| TECO | 280SC | | 90 | 166/96,0 | 93,7 | 0,88 | 1480 | 6,2 |
| TECO | 280MC | | 110 | 202/118 | 93,8 | 0,88 | 1480 | 6,2 |
| TECO | 315SC | | 132 | 240/138 | 93,8 | 0,89 | 1480 | 6,2 |
| TECO | 315MC | | 160 | 290/168 | 94,2 | 0,89 | 1480 | 6,2 |
| TECO | 315MB | | 200 | 355/204 | 94,8 | 0,91 | 1480 | 6,6 |
| TECO | 355MB | | 250 | 435/250 | 95,5 | 0,91 | 1490 | 6,9 |
| TECO | 355LB | 315 | 535/310 | 95,6 | 0,94 | 1490 | 6,9 | |

TECO, rendimiento estándar, 6 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|--------|---------------------|-----------|----------------------|-------|----------------------|------------------------|---------------------------------------------|
| TECO | 80 | 3x220-240Δ/380-415Y | 0,55 | 3,60/2,10 | 63,0 | 0,66 | 890 | 4,2 |
| TECO | 90S | | 0,75 | 3,95/2,26 | 73,8 | 0,68 | 910 | 4,8 |
| TECO | 90L | | 1,1 | 5,55/3,20 | 74,0 | 0,68 | 910 | 4,9 |
| TECO | 100L | | 1,5 | 7,05/4,10 | 79,0 | 0,71 | 920 | 5,6 |
| TECO | 112M | | 2,2 | 9,80/5,70 | 81,6 | 0,73 | 940 | 6,0 |
| TECO | 132S | | 3 | 12,0/6,95 | 83,3 | 0,79 | 960 | 6,3 |
| TECO | 132M | | 4 | 16,6/9,55 | 83,3 | 0,76 | 960 | 6,3 |
| TECO | 112M | | 2,2 | 5,65/3,25 | 81,6 | 0,73 | 940 | 6,0 |
| TECO | 132S | | 3 | 6,95/4,00 | 83,3 | 0,79 | 960 | 6,4 |
| TECO | 132M | | 4 | 9,55/5,50 | 83,3 | 0,76 | 960 | 6,3 |
| TECO | 132M | | 5,5 | 12,4/7,20 | 84,8 | 0,79 | 960 | 6,6 |
| TECO | 160M | | 7,5 | 16,4/9,40 | 86,0 | 0,81 | 970 | 6,3 |
| TECO | 160L | | 11 | 23,0/13,2 | 88,5 | 0,83 | 970 | 6,8 |
| TECO | 180LC | | 15 | 30,0/17,2 | 89,5 | 0,86 | 970 | 7,0 |
| TECO | 200LC | 18,5 | 36,5/21,0 | 91,0 | 0,85 | 970 | 6,8 | |
| TECO | 200LC | 3x380-415Δ/660-690Y | 22 | 43,5/25,0 | 92,0 | 0,84 | 970 | 6,8 |
| TECO | 225MC | | 30 | 61,5/35,5 | 91,0 | 0,82 | 970 | 6,4 |
| TECO | 250SC | | 37 | 74,5/43,0 | 91,7 | 0,83 | 970 | 6,5 |
| TECO | 250MC | | 45 | 88,0/50,5 | 92,4 | 0,84 | 970 | 6,3 |
| TECO | 280SC | | 55 | 108/62,0 | 92,4 | 0,84 | 970 | 6,3 |
| TECO | 280MC | | 75 | 144/82,5 | 93,0 | 0,86 | 980 | 6,5 |
| TECO | 315SC | | 90 | 172/99,0 | 93,0 | 0,86 | 980 | 6,5 |
| TECO | 315MC | | 110 | 210/122 | 93,0 | 0,86 | 980 | 6,2 |
| TECO | 315MC | | 132 | 250/144 | 93,6 | 0,86 | 980 | 6,2 |

TECO, rendimiento 1/alto rendimiento, 2 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|--------|---------------------|---------------------|----------------------|------------|----------------------|------------------------|---------------------------------------------|
| TECO | 80 | 3x220-240Δ/380-415Y | 0,75 | 2,90/1,68 | 80,0 | 0,85 | 2810 | 6,3 |
| TECO | 80 | | 1,1 | 4,15/2,42 | 82,5 | 0,84 | 2810 | 6,7 |
| TECO | 90S | | 1,5 | 5,50/3,20 | 84,1 | 0,85 | 2810 | 7,2 |
| TECO | 90L | | 2,2 | 7,95/4,60 | 85,7 | 0,85 | 2820 | 7,3 |
| TECO | 100L | | 3 | 10,4/6,05 | 86,7 | 0,87 | 2850 | 8,6 |
| TECO | 112M | | 4 | 13,8/7,95 | 87,6 | 0,87 | 2860 | 8,3 |
| TECO | 90L | 3x380-415Δ | 2,2 | 4,55 -4,35 | 85,1 -84,8 | 0,86 -0,83 | 2820 -2840 | 7,3 |
| TECO | 100L | | 3 | 6,00 -5,65 | 86,7 -86,4 | 0,88 -0,85 | 2850 -2870 | 8,6 |
| TECO | 112M | | 4 | 7,90 -7,45 | 87,8 -87,5 | 0,88 -0,85 | 2860 -2880 | 8,3 |
| TECO | 132S | | 5,5 | 10,2 -9,85 | 90,5 -90,9 | 0,90 -0,85 | 2900 -2920 | 7,2 |
| TECO | 132S | | 7,5 | 14,0 -14,0 | 89,9 -90,2 | 0,91 -0,83 | 2890 -2910 | 6,7 |
| TECO | 160M | | 11 | 20,6 /11,8 | 90,4 | 0,91 | 2910 | 7,2 |
| TECO | 160M | | 15 | 27,5 /15,8 | 91,1 | 0,91 | 2920 | 7,1 |
| TECO | 160L | | 18,5 | 33,5 /19,2 | 91,6 | 0,92 | 2920 | 8,4 |
| TECO | 180MA | | 22 | 39,0 /22,6 | 92,8 | 0,92 | 2940 | 8,6 |
| TECO | 200LA | | 30 | 55,5 /32,0 | 92,7 | 0,88 | 2940 | 8,6 |
| TECO | 200LA | | 37 | 66,5 /38,5 | 93,7 | 0,90 | 2940 | 8,6 |
| TECO | 225MA | | 45 | 81,0 /46,5 | 93,8 | 0,90 | 2940 | 8,4 |
| TECO | 250SA | | 55 | 97,5 /56,0 | 94,0 | 0,91 | 2950 | 7,4 |
| TECO | 250MA | | 3x380-415Δ/660-690Y | 75 | 130 /75,0 | 95,0 | 0,92 | 2950 |
| TECO | 280SA | 90 | | 158 /91,0 | 95,0 | 0,91 | 2950 | 7,0 |
| TECO | 280MA | 110 | | 190 /110 | 95,5 | 0,92 | 2960 | 7,6 |
| TECO | 315SA | 132 | | 230 /132 | 95,5 | 0,91 | 2980 | 7,5 |
| TECO | 315MA | 160 | | 280 /162 | 95,6 | 0,90 | 2980 | 7,0 |
| TECO | 315MA | 200 | | 355 /204 | 94,0 | 0,90 | 2980 | 8,0 |
| TECO | 315CA | 250 | | 455 /260 | 94,2 | 0,89 | 2970 | 6,4 |
| TECO | 315DA | 315 | | 560 /325 | 94,5 | 0,90 | 2970 | 6,5 |
| TECO | 355AA | 355 | 630 /365 | 94,8 | 0,90 | 2970 | 6,5 | |

TECO, rendimiento 1/alto rendimiento, 4 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|--------|---------------------|---------------------|----------------------|------------|----------------------|------------------------|---------------------------------------------|
| TECO | 80 | 3x220-240Δ/380-415Y | 0,55 | 2,60 /1,50 | 80,0 | 0,70 | 1390 | 5,7 |
| TECO | 80 | | 0,75 | 3,25 /1,90 | 81,5 | 0,74 | 1400 | 5,7 |
| TECO | 90S | | 1,1 | 4,30 /2,50 | 83,8 | 0,80 | 1410 | 6,1 |
| TECO | 90L | | 1,5 | 5,80 /3,35 | 85,0 | 0,80 | 1400 | 6,4 |
| TECO | 100L | | 2,2 | 7,75 /4,50 | 86,5 | 0,86 | 1410 | 6,7 |
| TECO | 100L | | 3 | 11,0 /6,35 | 87,5 | 0,82 | 1420 | 7,7 |
| TECO | 112M | | 4 | 14,2 /8,20 | 88,5 | 0,84 | 1430 | 7,7 |
| TECO | 100L | | 2,2 | 4,50-4,25 | 86,5 -86,2 | 0,86 -0,83 | 1410 -1430 | 9,6 |
| TECO | 100L | | 3 | 6,35 -6,05 | 87,5 -87,2 | 0,82 -0,79 | 1420 -1440 | 9,8 |
| TECO | 112M | | 4 | 8,20 -7,75 | 88,5 -88,2 | 0,84 -0,81 | 1430 -1450 | 9,8 |
| TECO | 132S | 3x380-415Δ | 5,5 | 11,0 -10,4 | 89,1 -89,2 | 0,86 -0,82 | 1450 -1470 | 9,8 |
| TECO | 132M | | 7,5 | 14,6/8,40 | 91,0 | 0,86 | 1450 | 9,5 |
| TECO | 160M | | 11 | 20,6/11,8 | 92,5 | 0,88 | 1450 | 9,0 |
| TECO | 160L | | 15 | 31,0/17,8 | 93,7 | 0,89 | 1450 | 8,6 |
| TECO | 180MC | | 18,5 | 35,0/20,0 | 94,0 | 0,86 | 1460 | 8,8 |
| TECO | 180LC | | 22 | 41,0/23,6 | 94,0 | 0,87 | 1460 | 8,3 |
| TECO | 200LC | | 30 | 55,0/31,5 | 94,5 | 0,88 | 1460 | 9,3 |
| TECO | 225SC | | 37 | 69,0/39,5 | 95,0 | 0,86 | 1470 | 7,8 |
| TECO | 225MC | | 45 | 84,0/48,5 | 95,0 | 0,86 | 1470 | 7,4 |
| TECO | 250SC | | 3x380-415Δ/660-690Y | 55 | 100/58,0 | 95,5 | 0,87 | 1480 |
| TECO | 250MC | 75 | | 138/79,0 | 95,5 | 0,87 | 1480 | 7,3 |
| TECO | 280SB | 90 | | 164/94,0 | 95,4 | 0,88 | 1480 | 7,0 |
| TECO | 280MC | 110 | | 200/114 | 95,4 | 0,88 | 1480 | 6,8 |
| TECO | 315SC | 132 | | 240/138 | 95,4 | 0,88 | 1490 | 6,0 |
| TECO | 315MCB | 160 | | 290/166 | 95,4 | 0,88 | 1490 | 6,0 |
| TECO | 315MB | 200 | | 335/192 | 95,8 | 0,88 | 1480 | 7,8 |
| TECO | 315CB | 250 | | 450/260 | 94,5 | 0,89 | 1480 | 6,4 |
| TECO | 315DB | 315 | | 565/325 | 94,8 | 0,89 | 1480 | 6,4 |

TECO, alto rendimiento, 6 polos

| Motor | Tamaño | Tensión | P2 [kW] | I _{1/1} [A] | η [%] | Cos φ _{1/1} | n [min ⁻¹] | I _{arranque} I ₁ § 1 |
|-------|--------|---------------------|-----------|----------------------|-------|----------------------|------------------------|---------------------------------------------|
| TECO | 80 | 3x220-240Δ/380-415Y | 0,55 | 3,10/1,80 | 75,0 | 0,62 | 910 | 5,0 |
| TECO | 90S | | 0,75 | 3,90/2,26 | 77,7 | 0,65 | 920 | 4,8 |
| TECO | 90L | | 1,1 | 5,50/3,20 | 79,9 | 0,66 | 920 | 4,7 |
| TECO | 100L | | 1,5 | 7,00/4,05 | 81,0 | 0,70 | 920 | 5,3 |
| TECO | 112M | | 2,2 | 9,00/5,20 | 82,6 | 0,78 | 930 | 5,9 |
| TECO | 132S | | 3 | 11,2/6,45 | 88,5 | 0,80 | 970 | 7,4 |
| TECO | 132M | | 4 | 14,8/8,60 | 89,5 | 0,79 | 970 | 7,4 |
| TECO | 112M | | 2,2 | 5,20/3,00 | 82,6 | 0,78 | 930 | 5,9 |
| TECO | 132S | | 3 | 6,45/3,70 | 88,5 | 0,80 | 970 | 7,4 |
| TECO | 132M | | 4 | 8,60/4,95 | 89,5 | 0,79 | 970 | 7,4 |
| TECO | 132M | 5,5 | 11,4/6,60 | 89,0 | 0,82 | 960 | 6,5 | |
| TECO | 160M | 7,5 | 15,4/8,90 | 91,0 | 0,81 | 970 | 6,7 | |
| TECO | 160L | 11 | 23,0/13,4 | 91,0 | 0,79 | 980 | 7,4 | |
| TECO | 180LC | 15 | 29,5/17,0 | 91,5 | 0,84 | 970 | 6,1 | |
| TECO | 200LC | 18,5 | 37,5/21,6 | 93,0 | 0,81 | 980 | 6,4 | |
| TECO | 200LC | 3x380-415Δ/660-690Y | 22 | 43,5/25,0 | 93,5 | 0,83 | 980 | 6,2 |
| TECO | 225MC | | 30 | 56,5/32,5 | 94,0 | 0,86 | 980 | 5,9 |
| TECO | 250SC | | 37 | 68,5/39,5 | 94,0 | 0,87 | 990 | 6,4 |
| TECO | 250MC | | 45 | 82,5/47,5 | 94,5 | 0,88 | 990 | 7,0 |
| TECO | 280SB | | 55 | 106/60,5 | 94,5 | 0,84 | 980 | 6,4 |
| TECO | 280MB | | 75 | 140/80,5 | 95,0 | 0,86 | 980 | 6,7 |
| TECO | 315SB | | 90 | 168/96,0 | 95,3 | 0,86 | 990 | 6,7 |
| TECO | 315MB | | 110 | 200/114 | 95,4 | 0,88 | 990 | 6,4 |
| TECO | 315MB | | 132 | 246/140 | 95,8 | 0,86 | 990 | 6,4 |

Tablas de corrección

Las tablas a continuación indican las dimensiones de los siguientes motores

- MG EFF2
- MMG modelo E
- TECO, rendimiento 2/rendimiento estándar
- TECO, rendimiento 1/alto rendimiento.

MG EFF2

Si se seleccionan motores MG de rendimiento 2, la dimensión de Datos técnicos de las páginas 58 a 267 debe estar corregida según las tablas detalladas a continuación.

2 polos

| P ₂ [kW] | Motor de rendimiento 1 | Motor de rendimiento 2 | L/LB | H | h4/AD | [mm] | | | | | | | Peso NK [kg] | Peso NB [kg] |
|---------------------|------------------------|------------------------|------|-----|-------|------|-----|---|-----|---|----|---|--------------|--------------|
| | | | | | | AG | LL | P | A | B | C | K | | |
| 0,55 | MG 71B-C | MG 71B-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0,75 | MG 80A-C | MG 80A-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,1 | MG 90SA-D | MG 80B-C | -50 | -10 | -1 | -80 | -21 | 0 | -15 | 0 | -6 | 0 | -5,4 | -5 |
| 1,5 | MG 90SB-D | MG 90SA-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 2,2 | MG 90LC-D | MG 90LA-C | -40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -3 | -3 |
| 3 | MG 100LC-D | MG 100LA-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | -2 |
| 4 | MG 112MC-D | MG 112MB-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -9 | -9 |
| 5,5 | MG 132SC-D | MG 132SB-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7,5 | MG 132SD-D | MG 132SC-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |

Nota:

Las dimensiones 'L' y 'h4' se refieren a bombas NK.
Las dimensiones 'LB' y 'h4' se refieren a bombas NB.

4 polos

| P ₂ [kW] | Motor de rendimiento 1 | Motor de rendimiento 2 | L/LB | H | h4/AD | [mm] | | | | | | | Peso NK [kg] | Peso NB [kg] |
|---------------------|------------------------|------------------------|------|---|-------|------|-----|---|---|---|---|---|--------------|--------------|
| | | | | | | AG | LL | P | A | B | C | K | | |
| 0,25 | MG 71A-C | MG 71A-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0,37 | MG 71B-C | MG 71B-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0,55 | MG 80A-C | MG 80A-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0,75 | MG 80B-C | MG 80B-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1,1 | MG 90SB-D | MG 90SA-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -5 | -6 |
| 1,5 | MG 90LC-D | MG 90LA-C | -40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -4 | -5 |
| 2,2 | MG 100LB-D | MG 100LA-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | -4 |
| 3 | MG 100LC-D | MG 100LB-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | -2 |
| 4 | MG 112MC-D | MG 112MB-C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -7 | -7 |
| 5,5 | Siemens 132S | MG 132SC-C | 18,5 | 0 | -33 | 62 | -37 | 0 | 0 | 0 | 0 | 0 | -3 | -1 |

Note:

Las dimensiones 'L' y 'h4' se refieren a bombas NK.
Las dimensiones 'LB' y 'h4' se refieren a bombas NB.

Motores MMG modelo E

Si se seleccionan motores MMG modelo E, la dimensión de Datos técnicos de las páginas 58 a 267 debe estar corregida según las tablas detalladas a continuación.

2 polos

| P ₂ [kW] | Motor de rendimiento 1 | Motor de rendimiento 2 | L/LB | H | h4/AD | AG | LL | P | A | B | C | K | Peso NK [kg] | Peso NB [kg] |
|---------------------|------------------------|------------------------|-------|-----|-------|-----|-----|-----|-----|------|------|----|--------------|--------------|
| | | | | | | | | | | | | | | |
| 1,1 | MG 90SA-D | MMG 80B-E | -37 | -10 | 23 | -70 | -11 | 0 | -15 | 0 | -6 | 0 | 2 | 2 |
| 1,5 | MG 90SB-D | MMG 90S-E | -21 | 0 | 36 | -56 | -3 | 0 | 0 | 0 | 3 | 0 | 9 | 10 |
| 2,2 | MG 90LC-D | MMG 90L-E | -36 | 0 | 36 | -56 | -3 | 3 | 0 | 0 | 3 | 0 | 7 | 11 |
| 3 | MG 100LC-D | MMG 100L-E | -18 | 0 | 40 | -66 | 3 | -1 | 0 | 0 | 0 | 0 | 9 | 1 |
| 4 | MG 112MC-D | MMG 112M-E | -41 | 0 | 46 | -86 | 15 | 0 | 0 | 0 | 0 | 0 | 3 | 2 |
| 5,5 | MG 132SC-D | MMG 132SA-E | -8 | 0 | 66 | -86 | 15 | 0 | 0 | 0 | 0 | 0 | 26 | 24 |
| 7,5 | MG 132SD-D | MMG 132SB-E | -8 | 0 | 66 | -86 | 15 | 0 | 0 | 0 | 0 | 0 | 26 | 24 |
| 11 | Siemens 160M | MMG 160MA-E | 20 | 0 | 51 | -5 | -15 | -1 | 0 | 0 | 0 | 0 | 42 | 44 |
| 15 | Siemens 160M | MMG 160MB-E | 20 | 0 | 51 | -5 | -15 | -1 | 0 | 0 | 0 | 0 | 41 | 43 |
| 18,5 | Siemens 160L | MMG 160L-E | 24 | 0 | 51 | -5 | -15 | -1 | 0 | 0 | 0 | 0 | 44 | 46 |
| 22 | Siemens 180M | MMG 180M-E | -22 | 0 | 6 | 8 | 18 | 0 | 0 | 0 | 0 | 0 | 52 | 54 |
| 30 | Siemens 200L | MMG 200LA-E | -11,5 | 0 | -8 | -32 | -4 | -1 | 0 | 0 | 0 | 0 | 34 | 34 |
| 37 | Siemens 200L | MMG 200LB-E | -11,5 | 0 | -8 | -32 | -4 | -1 | 0 | 0 | 0 | 0 | 56 | 58 |
| 45 | Siemens 225M | MMG 225M-E | -12 | 0 | -5 | -32 | -4 | -1 | 0 | 0 | 1 | 0 | 16 | 20 |
| 55 | Siemens 250M | MMG 250M-E | 23 | 0 | -33 | -54 | -20 | 0 | 0 | 0 | 0 | 0 | 42 | 48 |
| 75 | Siemens 280S | MMG 280S-E | -17 | 0 | -46 | -54 | -20 | 0 | 0 | 0 | -0,5 | 0 | -5 | 0 |
| 90 | Siemens 280M | MMG 280M-E | -76 | 0 | -46 | -54 | -20 | 0 | 0 | 0 | -0,5 | 0 | -25 | -15 |
| 110 | Siemens 315S | MMG 315S-E | 105 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | 163 | 165 |
| 132 | Siemens 315M | MMG 315M-E | 55 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | 132 | 132 |
| 160 | Siemens 315L | MMG 315LA-E | 55 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | 95 | 95 |
| 200 | Siemens 315L | MMG 315LB-E | -85 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | -20 | -20 |
| 250 | Siemens 315 | MMG 355M-E | 106 | 40 | 171 | - | 22 | 100 | 50 | -70 | 74 | 2 | 300 | 300 |
| 315 | Siemens 315 | MMG 355L-E | 106 | 40 | 171 | - | 22 | 100 | 50 | 0 | 74 | 2 | 400 | - |
| 355 | Siemens 355 | MMG 355L-E | -119 | 0 | 98 | - | 0 | 0 | -20 | -170 | 54 | -5 | 400 | - |

Note:

Las dimensiones 'L' y 'h4' se refieren a bombas NK.

Las dimensiones 'LB' y 'h4' se refieren a bombas NB.

4 polos

| P ₂ [kW] | Motor de rendimiento 1 | Motor de rendimiento 2 | L/LB | H | h4/AD | AG | LL | P | A | B | C | K | Peso NK [kg] | Peso NB [kg] |
|---------------------|------------------------|------------------------|-------|---|-------|-----|-----|----|---|----|------|---|--------------|--------------|
| | | | | | | | | | | | | | | |
| 0,25 | MG 71A-C | MMG 71A-E | 21 | 0 | 12 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 4,8 | 4,5 |
| 0,37 | MG 71B-C | MMG 71B-E | 21 | 0 | 12 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 5,3 | 5 |
| 0,55 | MG 80A-C | MMG 80A-E | 13 | 0 | 24 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 9,7 | 8,9 |
| 0,75 | MG 80B-C | MMG 80B-E | 13 | 0 | 24 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 8,5 | 8 |
| 1,1 | MG 90SB-D | MMG 90S-E | -21 | 0 | 36 | -56 | -3 | 0 | 0 | 0 | 3 | 0 | 5 | 6 |
| 1,5 | MG 90LC-D | MMG 90L-E | -36 | 0 | 36 | -56 | -3 | 3 | 0 | 0 | 3 | 0 | 6 | 10 |
| 2,2 | MG 100LB-D | MMG 100LA-E | -18 | 0 | 40 | -66 | 3 | -1 | 0 | 0 | 0 | 0 | 10 | -1 |
| 3 | MG 100LC-D | MMG 100LB-E | -18 | 0 | 40 | -66 | 3 | -1 | 0 | 0 | 0 | 0 | 5 | -3 |
| 4 | MG 112MC-D | MMG 112M-E | -41 | 0 | 46 | -86 | 15 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| 5,5 | Siemens_132S | MMG 132S-E | 10,5 | 0 | 33 | -24 | -22 | 0 | 0 | 0 | 0 | 0 | 21 | 21 |
| 7,5 | Siemens 132M | MMG 132M-E | 10,5 | 0 | 33 | -24 | -22 | 0 | 0 | 0 | 0 | 0 | 21 | 21 |
| 11 | Siemens 160M | MMG 160MA-E | 20 | 0 | 51 | -5 | -15 | -1 | 0 | 0 | 0 | 0 | 48 | 54 |
| 15 | Siemens 160L | MMG 160L-E | 24 | 0 | 51 | -5 | -15 | -1 | 0 | 0 | 0 | 0 | 38 | 41 |
| 18,5 | Siemens 180M | MMG 180M-E | -22 | 0 | 6 | 8 | 18 | 0 | 0 | 0 | 0 | 0 | 54 | 58 |
| 22 | Siemens 180L | MMG 180L-E | -22 | 0 | 6 | 8 | 18 | 0 | 0 | 0 | 0 | 0 | 61 | 66 |
| 30 | Siemens 200L | MMG 200L-E | -11,5 | 0 | -8 | -32 | -4 | -1 | 0 | 0 | 0 | 0 | 66 | 74 |
| 37 | Siemens 225S | MMG 225M-E | 23 | 0 | -5 | -32 | -4 | -1 | 0 | 0 | 1 | 0 | 35 | 40 |
| 45 | Siemens 225M | MMG 225M-E | -12 | 0 | -5 | -32 | -4 | -1 | 0 | 25 | 1 | 0 | 20 | 25 |
| 55 | Siemens 250M | MMG 250M-E | -47 | 0 | -33 | -54 | -20 | 0 | 0 | 0 | 0 | 0 | 10 | 15 |
| 75 | Siemens 280S | MMG 280S-E | -17 | 0 | -46 | -54 | -20 | 0 | 0 | 0 | -0,5 | 0 | -21 | -15 |

| P ₂ [kW] | Motor de rendimiento 1 | Motor de rendimiento 2 | L/LB | H | h4/AD | AG | LL | P | A | B | C | K | Peso NK [kg] | Peso NB [kg] |
|---------------------|------------------------|------------------------|------|----|-------|-----|-----|-----|----|-----|------|---|--------------|--------------|
| | | | | | | | | | | | | | | |
| 90 | Siemens 280M | MMG 280M-E | -76 | 0 | -46 | -54 | -20 | 0 | 0 | 0 | -0,5 | 0 | -75 | -65 |
| 110 | Siemens 315S | MMG 315S-E | 102 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | 155 | 155 |
| 132 | Siemens 315MA | MMG 315M-E | 55 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | 155 | 155 |
| 160 | Siemens 315MB | MMG 315LA-E | 55 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | 95 | 95 |
| 200 | Siemens 315L | MMG 315LB-E | -85 | 0 | -24 | -59 | -27 | 0 | 0 | 51 | -1 | 0 | -10 | -10 |
| 250 | Siemens 315 | MMG 355M-E | 106 | 40 | 171 | - | 22 | 100 | 50 | -70 | 74 | 2 | 350 | 350 |
| 315 | Siemens 315 | MMG 355L-E | 106 | 40 | 171 | - | 22 | 100 | 50 | 0 | 74 | 2 | 450 | - |

Note:

Las dimensiones 'L' y 'h4' se refieren a bombas NK.

Las dimensiones 'LB' y 'h4' se refieren a bombas NB.

6 polos

| P ₂ [kW] | Motor de rendimiento 1 | Motor de rendimiento 2 | L/LB | H | h4/AD | AG | LL | P | A | B | C | K | Peso NK [kg] | Peso NB [kg] |
|---------------------|------------------------|------------------------|-------|---|-------|-----|-----|----|---|-----|------|---|--------------|--------------|
| | | | | | | | | | | | | | | |
| 1,1 | Siemens 90L | MMG 90L-E | -41 | 0 | 18 | 31 | 25 | 3 | 0 | 0 | 3 | 0 | 8 | 13 |
| 1,5 | Siemens 100L | MMG 100L-E | -30 | 0 | 25 | -24 | -14 | -1 | 0 | 0 | 0 | 0 | 7 | 1 |
| 2,2 | Siemens 112M | MMG 112M-E | -40 | 0 | 32 | -4 | -2 | 0 | 0 | 0 | 0 | 0 | 8 | 8 |
| 3 | Siemens 132SA | MMG 132S-E | 10,5 | 0 | 33 | -24 | -22 | 0 | 0 | -38 | 0 | 0 | 17 | 17 |
| 4 | Siemens 132MA | MMG 132MA-E | 48,5 | 0 | 33 | -24 | -22 | 0 | 0 | 0 | 0 | 0 | 27 | 27 |
| 5,5 | Siemens 132MB | MMG 132MB-E | 10,5 | 0 | 33 | -24 | -22 | 0 | 0 | 0 | 0 | 0 | 17 | 17 |
| 7,5 | Siemens 160M | MMG 160M-E | 20 | 0 | 51 | -5 | -15 | -1 | 0 | 0 | 0 | 0 | 24 | 29 |
| 11 | Siemens 160L | MMG 160L-E | 24 | 0 | 51 | -5 | -15 | -1 | 0 | 0 | 0 | 0 | 40 | 45 |
| 15 | Siemens 180L | MMG 180L-E | -22 | 0 | 6 | 8 | 18 | 0 | 0 | 0 | 0 | 0 | 40 | 45 |
| 18,5 | Siemens 200LA | MMG 200LA-E | -11,5 | 0 | -8 | -32 | -4 | -1 | 0 | 0 | 0 | 0 | 47 | 47 |
| 22 | Siemens 200LB | MMG 200LB-E | -11,5 | 0 | -8 | -32 | -4 | -1 | 0 | 0 | 0 | 0 | 31 | 31 |
| 30 | Siemens 225M | MMG 225M-E | -12 | 0 | -5 | -32 | -4 | -1 | 0 | 25 | 1 | 0 | -29 | -29 |
| 37 | Siemens 250M | MMG 250M-E | 23 | 0 | -33 | -54 | -20 | 0 | 0 | 0 | 0 | 0 | -17 | -15 |
| 45 | Siemens 280S | MMG 280S-E | -17 | 0 | -46 | -54 | -20 | 0 | 0 | 0 | -0,5 | 0 | -2 | -2 |
| 55 | Siemens 280M | MMG 280M-E | -76 | 0 | -46 | -54 | -20 | 0 | 0 | 0 | -0,5 | 0 | 16 | 16 |
| 75 | Siemens 315S | MMG 315S-E | 102 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | 232 | 232 |
| 90 | Siemens 315MA | MMG 315M-E | 55 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | 115 | 115 |
| 110 | Siemens 315MB | MMG 315LA-E | 55 | 0 | -24 | -59 | -27 | 0 | 0 | 0 | -1 | 0 | 100 | 100 |
| 132 | Siemens 315L | MMG 315LB-E | -85 | 0 | -24 | -59 | -27 | 0 | 0 | 51 | -1 | 0 | 31 | 31 |

Note:

Las dimensiones 'L' y 'h4' se refieren a bombas NK.

Las dimensiones 'LB' y 'h4' se refieren a bombas NB.

Motores TECO de rendimiento 2/rendimiento 1

Si se seleccionan motores TECO de rendimiento 2/rendimiento 1, la dimensión de Datos técnicos de las páginas 58 a 267 debe estar corregida según las tablas detalladas a continuación.

2 polos

| P ₂ [kW] | Motor de rendimiento 1 | Motor TECO | L (NB) | L(NK/LB(NK)) | H | h4/AD | AG | LL | P | A | B | C | K | Motor de rendimiento 2 | | Motor de rendimiento 1 | |
|---------------------|------------------------|------------|--------|--------------|-----|-------|----|----|------|-----|-----|-----|------|------------------------|---------|------------------------|---------|
| | | | | | | | | | | | | | | Peso NK | Peso NB | Peso NK | Peso NB |
| [mm] | | | | | | | | | | | | | | [kg] | [kg] | [kg] | [kg] |
| 1,1 | MG 90SA-D | Teco 80 | 0 | -38,5 | -10 | 48 | - | - | 0 | -15 | 0 | -6 | 0 | 1,6 | 1,6 | 1 | 1 |
| 1,5 | MG 90SB-D | Teco 90S | 0 | -23,5 | 0 | 60 | - | - | 0 | 0 | 0 | 0 | 0 | 5,5 | 4,5 | 5 | 4 |
| 2,2 | MG 90LC-D | Teco 90L | 0 | -38,5 | 0 | 60 | - | - | 0 | 0 | 0 | 0 | 0 | 6,5 | 5,5 | 5 | 4 |
| 3 | MG 100LC-D | Teco 100L | 0 | -20,5 | 0 | 60 | - | - | 0 | 0 | 0 | 0 | 0 | 12 | 10 | 12 | 10 |
| 4 | MG 112MC-D | Teco 112M | 0 | -40,5 | 0 | 55 | - | - | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 4 | 3 |
| 5,5 | MG 132SC-D | Teco 132S | 0 | -17 | 0 | 91 | - | - | 0 | 0 | 0 | 0 | 0 | 25 | 23 | 35 | 33 |
| 7,5 | MG 132SD-D | Teco 132S | 0 | -17 | 0 | 91 | - | - | 0 | 0 | 0 | 0 | 0 | 30 | 28 | 35 | 33 |
| 11 | Siemens 160M | Teco 160M | 0 | 20 | 0 | 66 | - | - | 0 | 0 | 0 | 0 | -0,5 | 35 | 35 | 57 | 57 |
| 15 | Siemens 160M | Teco 160M | 0 | 20 | 0 | 66 | - | - | 0 | 0 | 0 | 0 | -0,5 | 40 | 40 | 48 | 48 |
| 18,5 | Siemens 160L | Teco 160L | 0 | 24 | 0 | 66 | - | - | 0 | 0 | 0 | 0 | -0,5 | 36 | 36 | 56 | 56 |
| 22 | Siemens 180M | Teco 180L | 0 | -40 | 0 | 47 | - | - | 0 | 0 | 0 | 0 | -0,5 | 55 | 55 | 49 | 49 |
| 30 | Siemens 200L | Teco 200L | 0 | 1,5 | 0 | 69 | - | - | 0 | 0 | 0 | 0 | -0,5 | 56 | 56 | 66 | 66 |
| 37 | Siemens 200L | Teco 200L | 0 | 1,5 | 0 | 69 | - | - | 0 | 0 | 0 | 0 | -0,5 | 76 | 76 | 66 | 66 |
| 45 | Siemens 225M | Teco 225M | 0 | -8 | 0 | 102 | - | - | 0 | 0 | 0 | 0 | -0,5 | 15 | 15 | 25 | 25 |
| 55 | Siemens 250M | Teco 250S | 0 | -4,5 | 0 | 101 | - | - | 0 | 0 | -38 | 0 | 0 | 30 | 30 | 50 | 50 |
| 75 | Siemens 280S | Teco 250M | 0 | -39,5 | -30 | 61 | - | - | 0 | -51 | -19 | -22 | 0 | -5 | -5 | 10 | 10 |
| 90 | Siemens 280M | Teco 280S | 0 | -78 | 0 | 91 | - | - | 0 | 0 | -51 | 0 | 0 | -15 | -15 | 15 | 15 |
| 110 | Siemens 315S | Teco 280M | -30 | -30 | -35 | 28 | - | - | -110 | -51 | 13 | -26 | -4 | -90 | -127 | -90 | -127 |
| 132 | Siemens 315M | Teco 315S | 0 | -146 | 0 | 53 | - | - | 0 | 0 | -51 | 0 | 0 | 5 | 5 | -75 | -75 |
| 160 | Siemens 315L | Teco 315M | 0 | -95 | 0 | 53 | - | - | 0 | 0 | -51 | 0 | 0 | 145 | 145 | -110 | -110 |
| 200 | Siemens 315L | Teco 315M | 0 | -235 | 0 | 53 | - | - | 0 | 0 | -51 | 0 | 0 | 105 | 135 | 125 | 155 |
| 250 | Siemens 315 | Teco 355MA | - | 120 | 40 | 182 | - | - | - | 50 | -70 | 74 | 2 | 800 | - | - | - |
| 250 | Siemens 315 | Teco 315CA | - | 371 | 0 | - | - | - | - | -52 | 80 | 36 | 2 | - | - | 400 | - |
| 315 | Siemens 315 | Teco 355LA | - | 120 | 40 | 182 | - | - | - | 50 | 0 | 74 | 2 | 600 | - | - | - |
| 315 | Siemens 315 | Teco 315DA | - | 571 | 0 | - | - | - | - | -52 | 280 | 36 | 2 | - | - | 500 | - |

4 polos

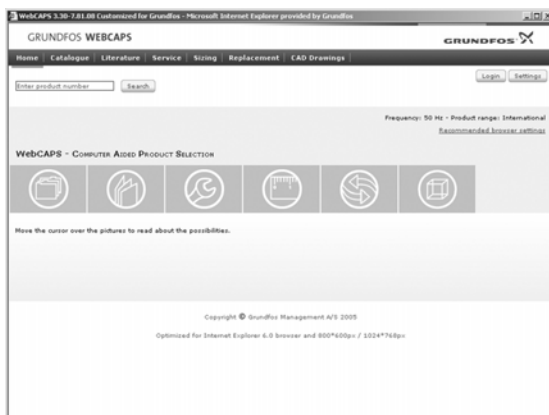
| P ₂ [kW] | Motor de rendimiento 1 | Motor TECO | L (NB) | L(NK/LB(NK)) | H | h4/AD | AG | LL | P | A | B | C | K | Motor de rendimiento 2 | | Motor de rendimiento 1 | |
|---------------------|------------------------|------------|--------|--------------|----|-------|----|----|---|-----|-----|----|------|------------------------|---------|------------------------|---------|
| | | | | | | | | | | | | | | Peso NK | Peso NB | Peso NK | Peso NB |
| [mm] | | | | | | | | | | | | | | [kg] | [kg] | [kg] | [kg] |
| 0,25 | MG 71A-C | Teco 63 | 0 | 5 | -8 | 13 | - | - | 0 | -12 | -10 | -5 | 0 | 5,8 | 5,5 | 5,8 | 5,5 |
| 0,37 | MG 71B-C | Teco 71 | 0 | 29,5 | 0 | 23 | - | - | 0 | 0 | 0 | 0 | 0 | 5,3 | 5 | 5,3 | 5 |
| 0,55 | MG 80A-C | Teco 80 | 0 | 11,5 | 0 | 49 | - | - | 0 | 0 | 0 | 0 | 0 | 5,7 | 4,9 | 6,7 | 5,9 |
| 0,75 | MG 80B-C | Teco 80 | 0 | 11,5 | 0 | 49 | - | - | 0 | 0 | 0 | 0 | 0 | 7,5 | 7 | 7,5 | 7 |
| 1,1 | MG 90SB-D | Teco 90S | 0 | -23,5 | 0 | 60 | - | - | 0 | 0 | 0 | 0 | 0 | -0,4 | -1,4 | 1 | 0 |
| 1,5 | MG 90LC-D | Teco 90L | 0 | -38,5 | 0 | 60 | - | - | 0 | 0 | 0 | 0 | 0 | 2,5 | 1,5 | 4 | 3 |
| 2,2 | MG 100LB-D | Teco 100L | 0 | -20,5 | 0 | 60 | - | - | 0 | 0 | 0 | 0 | 0 | 10 | 5 | 13 | 8 |
| 3 | MG 100LC-D | Teco 100L | 0 | -20,5 | 0 | 60 | - | - | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 8 | 6 |
| 4 | MG 112MC-D | Teco 112M | 0 | -40,5 | 0 | 55 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | -1 | 3 | 2 |
| 5,5 | Siemens 132S | Teco 132S | 0 | 1,5 | 0 | 58 | - | - | 0 | 0 | 0 | 0 | 0 | 18 | 18 | 30 | 30 |
| 7,5 | Siemens 132M | Teco 132M | 0 | 1,5 | 0 | 58 | - | - | 0 | -1 | 0 | 0 | 0 | 17 | 17 | 22 | 22 |
| 11 | Siemens 160M | Teco 160M | 0 | 20 | 0 | 66 | - | - | 0 | 0 | 0 | 0 | -0,5 | 35 | 35 | 49 | 49 |
| 15 | Siemens 160L | Teco 160L | 0 | 24 | 0 | 66 | - | - | 0 | 0 | 0 | 0 | -0,5 | 25 | 25 | 51 | 51 |
| 18,5 | Siemens 180M | Teco 180M | 0 | -40 | 0 | 47 | - | - | 0 | 0 | 0 | 0 | -0,5 | 46 | 46 | 40 | 40 |
| 22 | Siemens 180L | Teco 180M | 0 | -2 | 0 | 47 | - | - | 0 | 0 | 0 | 0 | -0,5 | 59 | 59 | 59 | 59 |
| 30 | Siemens 200L | Teco 200L | 0 | 1,5 | 0 | 69 | - | - | 0 | 0 | 0 | 0 | -0,5 | 81 | 81 | 81 | 81 |
| 37 | Siemens 225S | Teco 225S | 0 | 27 | 0 | 102 | - | - | 0 | 0 | 0 | 0 | -0,5 | 35 | 35 | 30 | 30 |
| 45 | Siemens 225M | Teco 225M | 0 | -8 | 0 | 102 | - | - | 0 | 0 | 25 | 0 | -0,5 | 20 | 20 | 30 | 30 |
| 55 | Siemens 250M | Teco 250S | 0 | -74,5 | 0 | 101 | - | - | 0 | 0 | -38 | 0 | 0 | 15 | 15 | 50 | 50 |

| P ₂ [kW] | Motor de rendimiento 1 | Motor TECO | L (NB) | L(NK/LB(NK)) | H | h4/AD | AG | LL | P | A | B | C | K | Motor de rendimiento 2 | | Motor de rendimiento 1 | |
|---------------------|------------------------|------------|--------|--------------|-----|-------|----|----|------|-----|-----|-----|----|------------------------|---------|------------------------|---------|
| | | | | | | | | | | | | | | Peso NK | Peso NB | Peso NK | Peso NB |
| | | | | | | | | | | | | | | [kg] | [kg] | [kg] | [kg] |
| 75 | Siemens 280S | Teco 250M | 0 | -39,5 | -30 | 61 | - | - | 0 | -51 | -19 | -22 | 0 | -25 | -25 | -10 | -10 |
| 90 | Siemens 280M | Teco 280S | 30 | -48 | 0 | 91 | - | - | 0 | 0 | -51 | 0 | 0 | -15 | -15 | 5 | 5 |
| 110 | Siemens 315S | Teco 280M | 0 | 0 | -35 | 28 | - | - | -110 | -51 | 13 | -26 | -4 | -90 | -130 | -50 | -90 |
| 132 | Siemens 315MA | Teco 315S | 0 | -146 | 0 | 53 | - | - | 0 | 0 | -51 | 0 | 0 | -45 | -45 | -35 | -35 |
| 160 | Siemens 315MB | Teco 315M | 0 | -95 | 0 | 53 | - | - | 0 | 0 | -51 | 0 | 0 | 95 | 95 | -85 | -85 |
| 200 | Siemens 315L | Teco 315M | 0 | -235 | 0 | 53 | - | - | 0 | 0 | 0 | 0 | 0 | -55 | -25 | -35 | -5 |
| 250 | Siemens 315 | Teco 355M | - | 120 | 40 | 182 | - | - | - | 50 | -70 | 74 | 2 | 800 | - | - | - |
| 250 | Siemens 315 | Teco 315CB | - | 236 | 0 | - | - | - | - | -52 | 80 | 36 | 2 | - | - | 400 | - |
| 315 | Siemens 315 | Teco 355L | - | 120 | 40 | 182 | - | - | - | 50 | 0 | 74 | 2 | 600 | - | - | - |
| 315 | Siemens 315 | Teco 315DB | - | 436 | 0 | - | - | - | - | -52 | 280 | 36 | 2 | - | - | 200 | - |

6 polos

| P ₂ [kW] | Motor de rendimiento 1 | Motor TECO | L (NB) | L(NK/LB(NK)) | H | h4/AD | AG | LL | P | A | B | C | K | Motor de rendimiento 2 | | Motor de rendimiento 1 | |
|---------------------|------------------------|------------|--------|--------------|-----|-------|----|----|------|-----|-----|-----|------|------------------------|---------|------------------------|---------|
| | | | | | | | | | | | | | | Peso NK | Peso NB | Peso NK | Peso NB |
| | | | | | | | | | | | | | | [kg] | [kg] | [kg] | [kg] |
| 1,1 | Siemens 90L | Teco 90L | 0 | -43,5 | 0 | 42 | - | - | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 |
| 1,5 | Siemens 100L | Teco 100L | 0 | -32,5 | 0 | 45 | - | - | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 10 | 10 |
| 2,2 | Siemens 112M | Teco 112M | 0 | -39,5 | 0 | 41 | - | - | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 9 | 9 |
| 3 | Siemens 132SA | Teco 132S | 0 | 1,5 | 0 | 58 | - | - | 0 | 0 | -38 | 0 | 0 | 11 | 11 | 26 | 26 |
| 4 | Siemens 132MA | Teco 132M | 0 | 39,5 | 0 | 58 | - | - | 0 | -1 | 0 | 0 | 0 | 16 | 16 | 33 | 33 |
| 5,5 | Siemens 132MB | Teco 132M | 0 | 1,5 | 0 | 58 | - | - | 0 | -1 | 0 | 0 | 0 | 13 | 13 | 15 | 15 |
| 7,5 | Siemens 160M | Teco 160M | 0 | 20 | 0 | 66 | - | - | 0 | 0 | 0 | 0 | -0,5 | 16 | 16 | 32 | 32 |
| 11 | Siemens 160L | Teco 160L | 0 | 24 | 0 | 66 | - | - | 0 | 0 | 0 | 0 | -0,5 | 39 | 39 | 53 | 53 |
| 15 | Siemens 180L | Teco 180M | 0 | -2 | 0 | 47 | - | - | 0 | 0 | 0 | 0 | -0,5 | 66 | 66 | 61 | 61 |
| 18,5 | Siemens 200LA | Teco 200L | 0 | 1,5 | 0 | 69 | - | - | 0 | 0 | 0 | 0 | -0,5 | 84 | 84 | 94 | 94 |
| 22 | Siemens 200LB | Teco 200L | 0 | 1,5 | 0 | 69 | - | - | 0 | 0 | 0 | 0 | -0,5 | 63 | 63 | 63 | 63 |
| 30 | Siemens 225M | Teco 225M | 0 | -8 | 0 | 102 | - | - | 0 | 0 | 25 | 0 | -0,5 | 20 | 20 | 35 | 35 |
| 37 | Siemens 250M | Teco 250S | 0 | -4,5 | 0 | 101 | - | - | 0 | 0 | -38 | 0 | 0 | 0 | 0 | 105 | 105 |
| 45 | Siemens 280S | Teco 250M | 0 | -39,5 | -30 | 61 | - | - | 0 | -51 | -19 | -22 | 0 | -80 | -80 | 45 | 45 |
| 55 | Siemens 280M | Teco 280S | 30 | -48 | 0 | 91 | - | - | 0 | 0 | -51 | 0 | 0 | 40 | 40 | 80 | 80 |
| 75 | Siemens 315S | Teco 280M | 0 | 0 | -35 | 28 | - | - | -110 | -51 | 13 | -26 | -4 | -50 | -90 | -30 | -70 |
| 90 | Siemens 315MA | Teco 315S | 0 | -146 | 0 | 53 | - | - | 0 | 0 | -51 | 0 | 0 | -65 | -65 | -15 | -15 |
| 110 | Siemens 315MB | Teco 315M | 0 | -95 | 0 | 53 | - | - | 0 | 0 | -51 | 0 | 0 | -10 | -10 | 10 | 10 |
| 132 | Siemens 315L | Teco 315M | 0 | -235 | 0 | 53 | - | - | 0 | 0 | 0 | 0 | 0 | -80 | -80 | -140 | -140 |

WebCAPS

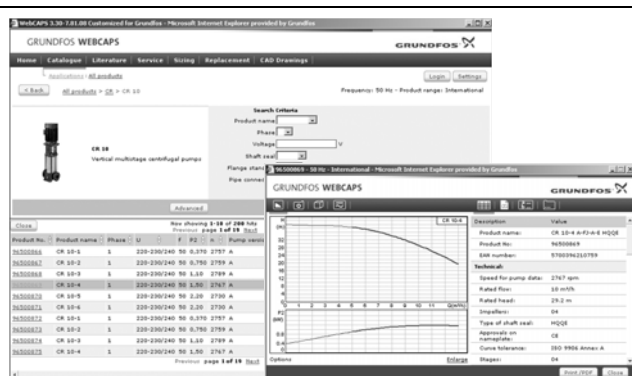


WebCAPS es un programa de selección de producto con soporte informático basado en Web que está disponible en www.grundfos.es.

WebCAPS contiene información detallada de más de 185.000 productos Grundfos en más de 20 idiomas.

En WebCAPS, toda la información está dividida en 6 secciones:

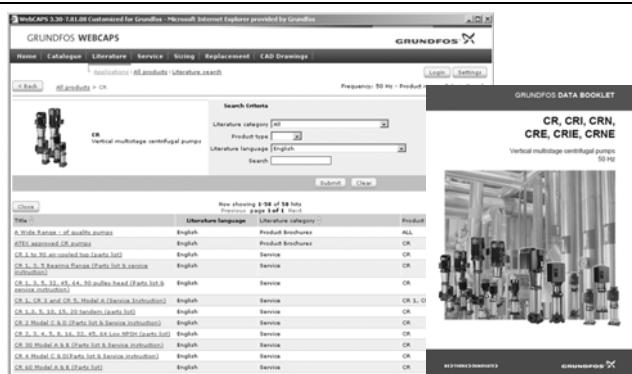
- Catálogo
- Literatura
- Repuestos
- Dimensionamiento
- Sustitución
- Planos CAD.



Catálogo

Comenzando por las áreas de aplicación y los tipos de bomba, esta sección contiene

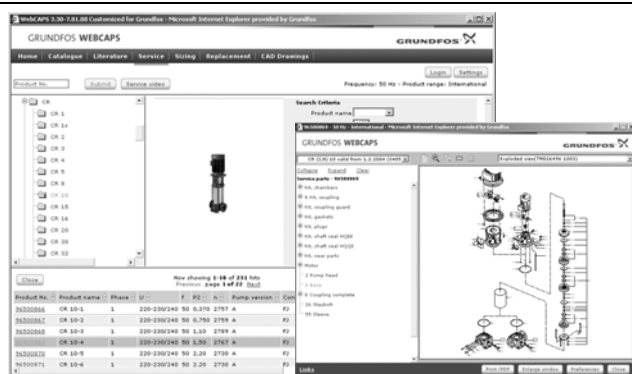
- datos técnicos
- curvas (QH, Eta, P1, P2, etc) que pueden adaptarse a la densidad y viscosidad del líquido bombeado y mostrar el número de bombas en funcionamiento
- fotos del producto
- planos dimensionales
- esquemas de conexiones eléctricas
- textos de ofertas, etc.



Literatura

En esta sección puede acceder a todos los documentos más recientes de una bomba en particular, tales como

- catálogos
- instrucciones de instalación y funcionamiento
- documentación de servicio postventa, como el Service kit catalogue o Service kit instructions
- guías rápidas
- folletos de producto, etc.



Repuestos

Esta sección contiene un catálogo de repuestos interactivo de fácil manejo. Aquí puede encontrar e identificar repuestos tanto de las bombas Grundfos existentes como de las obsoletas. Además, esta sección contiene vídeos de servicio postventa que muestran cómo sustituir repuestos.



Dimensionamiento

Comenzando por las diferentes áreas de aplicación y los ejemplos de instalación, esta sección ofrece instrucciones paso a paso de cómo

- seleccionar la bomba más adecuada y eficiente para su aplicación
- realizar cálculos avanzados basados en el consumo de energía, periodos de retorno, perfiles de carga, costes del ciclo vital, etc.
- analizar la bomba seleccionada a través de la herramienta de coste del ciclo vital
- determinar la velocidad del caudal en aplicaciones de aguas residuales, etc.



Sustitución

En esta sección encontrará una guía para seleccionar y comparar datos de sustitución de una bomba instalada para sustituirla por una bomba Grundfos más eficiente.

Esta sección contiene datos de sustitución de una amplia gama de bombas de otros fabricantes.

Basándose en la guía fácil paso a paso puede comparar las bombas Grundfos con la que haya instalado. Después de especificar la bomba instalada, la guía le sugiere las bombas Grundfos que pueden mejorar tanto su comodidad como la eficacia.



Planos CAD

En esta sección es posible descargar planos CAD bidimensionales (2D) y tridimensionales (3D) de la mayoría de las bombas Grundfos.

Los siguientes formatos están disponibles en WebCAPS:

planos bidimensionales:

- .dxf, gráficos de tipo alambre
- .dwg, gráficos de tipo alambre.

planos tridimensionales:

- .dwg, gráficos tipo alambre (sin superficies)
- .stp, planos sólidos (con superficies)
- .eprt, planos a través de Internet.

WinCAPS



Fig. 42 WinCAPS CD-ROM

WinCAPS es un programa de selección de producto con soporte informático, basado en Windows que contiene información detallada de más de 185.000 productos de Grundfos en más de 20 idiomas.

El programa tiene las mismas características y funciones que WebCAPS, pero es una solución idónea cuando no hay disponible una conexión a Internet.

WinCAPS está disponible en CD-ROM y se actualiza anualmente.

| | |
|----------------------|----------|
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| Repl. 96507650 0503 | |
| Repl. 96540772 0603 | |

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