

B3656LH

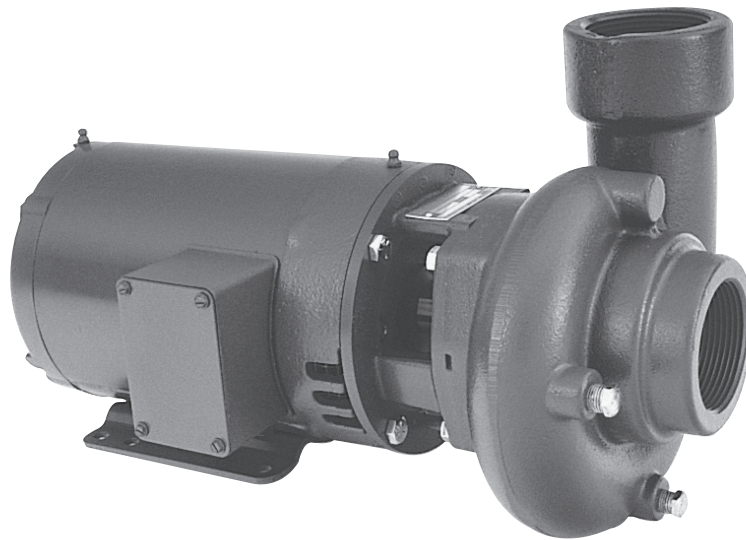
 **GOULDS PUMPS**

3656/3756LH

Low Head, Cast Iron, Bronze Fitted, End-Suction Pumps

Bombas de Succión Final, Pequeña Carga,

Hierro Fundido, Recubiertas de Bronce



www.goulds.com

Goulds Pumps is a brand of ITT Corporation.

Goulds Pumps es una marca de fábrica de ITT Corporation.

Goulds Pumps is ISO 9001 Registered.

Goulds Pumps es ISO 9001 Registrado.

Commercial Water

A FULL RANGE OF PRODUCT FEATURES UNA GAMA TOTAL DE CARACTERÍSTICAS DEL PRODUCTO

The 3656LH and 3756LH pumps from Goulds Pumps have been designed with technical benefits to meet the needs of both manufacturers and users in a variety of refrigeration and cooling applications as well as irrigation applications.

- Performance testing of every pump we manufacture assures trouble free operation.
- Back pull-out to reduce maintenance down time.
- Standard John Crane Type 21 mechanical seal for both reliability and availability.
- Available in all iron or bronze fitted construction for application versatility.
- Replaceable wearing components include stainless steel shaft sleeve and casing wear ring to maintain peak efficiency.
- Enclosed impeller design, dynamic balancing and renewable wear ring reduce losses affecting performance and pump life.
- Suction and discharge connections are NPT threaded except for the 4 x 4-5 and 5 x 5-6 sizes which have ANSI class 125 flat faced flanges.
- Casing mounting is standard with a vertical discharge however can be rotated in 90 degree increments for side discharge arrangements.

Las bombas 3656LH y 3756LH de Goulds Pumps han sido diseñadas con beneficios técnicos para cumplir con las necesidades de fabricantes y usuarios en una variedad de aplicaciones para refrigeración y enfriamiento, además de aplicaciones de irrigación.

- *Pruebas de funcionamiento de cada bomba que fabricamos, aseguran un funcionamiento sin problemas.*
- *Extracción trasera para reducir el tiempo de mantenimiento.*
- *Sello mecánico estándar John Crane Tipo 21 para funcionalidad y disponibilidad.*
- *Disponibles en todas las construcciones de hierro o recubiertas de bronce para variedad de aplicaciones.*
- *Componentes reemplazables sujetos a desgaste incluyen camisas de eje de acero inoxidable y anillos de desgaste de la carcasa para mantener un rendimiento óptimo.*
- *Las conexiones de succión y descarga son NPT roscadas, excepto por los tamaños de 4 x 4-5 y 5 x 5-6 que tienen bridas de cara plana ANSI Clase 125.*
- *El montaje de la carcasa es estándar con una descarga vertical; sin embargo, se puede rotar en incrementos de 90 grados para disposiciones de descarga lateral.*

3656LH, 3756LH NUMBERING SYSTEM 3656LH, 3756LH SISTEMA DE NUMERACIÓN

The various versions of the 3656LH and 3756LH are identified by a product code number on the pump label. This number is also the catalog number for the pump. The meaning of each digit in the product code number is shown below.

Las diferentes versiones de las 3656LH y 3756LH se identifican con un número de código del producto en la etiqueta de la bomba. Este número es también el número de catálogo para la bomba. El significado de cada dígito en el número de código del producto se muestra abajo.

Example Product Code, Ejemplo Código del Producto

51 BF 1 F 2 B 0

Mechanical Seal and O-ring, Sello Mecánico y Anillo 'O'

| Seal Code, Código del Sello | Rotary, Rotativo | Stationary, Estacionario | Elastomers, Elastómeros | Metal Parts, Partes Metálicas | Part No., Pieza Número |
|-----------------------------|------------------|--------------------------|-------------------------|-------------------------------|------------------------|
| 0 | | Ceramic, Cerámica | BUNA | Type 316 SS, Tipo 316 SS | 10K13 |
| 1 | Carbon | Sil-Carb., | EPR | | 10K19 |
| 3 | | Caburo de sílicona | Viton | Tipo 316 SS | 10K27 |
| 5 | Sil-Carb. | | | | 10K64 |

Note: 10K27 replaces obsolete 10K25,
Nota: La 10K27 reemplaza la obsoleta 10K25.

Impeller Option Code, Código del Impulsor Opcional

| Impeller Code, Código del Impulsor | Pump Size, Tamaño de la Bomba | | | | |
|------------------------------------|-------------------------------|-------------------|-----------|-----------|-----------------|
| | 2 x 2 - 5 | 2 1/2 x 2 1/2 - 5 | 3 x 3 - 5 | 4 x 4 - 5 | 5 x 5 - 6 |
| | Dia. | Dia. | Dia. | Dia. | Dia. |
| A | 4" | 4 3/16" | 4 3/8" | 4 3/4" | 5 1/2 x 4 1/2" |
| B | 3 3/4 | 3 1/16 | 4 3/16 | 4 3/8 | 5 5/16 x 4 3/16 |
| C | 3 1/2 | 3 3/4 | 4 | 4 1/2 | 5 x 3 3/8 |
| D | 3 1/4 | 3 9/16 | 3 13/16 | 4 1/16 | 5 x 3 9/16 |
| E | 3 | 3 3/8 | 3 3/8 | 4 | 5 x 3 1/32 |

Driver, Conductor

1 = 1 PH, ODP 6 = 575 V, TEFC
2 = 3 PH, ODP 7 = 3 PH, XP
3 = 575 V, ODP 8 = 575 V, XP
4 = 1 PH, TEFC 9 = 3 PH, TEFC, PREFE.
5 = 3 PH, TEFC 0 = 1 PH, XP

HP Rating, HP Potencia

C = 1/2 E = 1 G = 2 J = 5 L = 10
D = 3/4 F = 1 1/2 H = 3 K = 7 1/2 M = 15

Driver: Hertz/Pole/RPM, Conductor: Hercios/Polo/RPM

1 = 60 Hz, 2 pole, 3500 RPM
2 = 60 Hz, 4 pole, 1750 RPM
3 = 60 Hz, 6 pole, 1150 RPM
4 = 50 Hz, 2 pole, 2900 RPM
5 = 50 Hz, 4 pole, 1450 RPM

Material

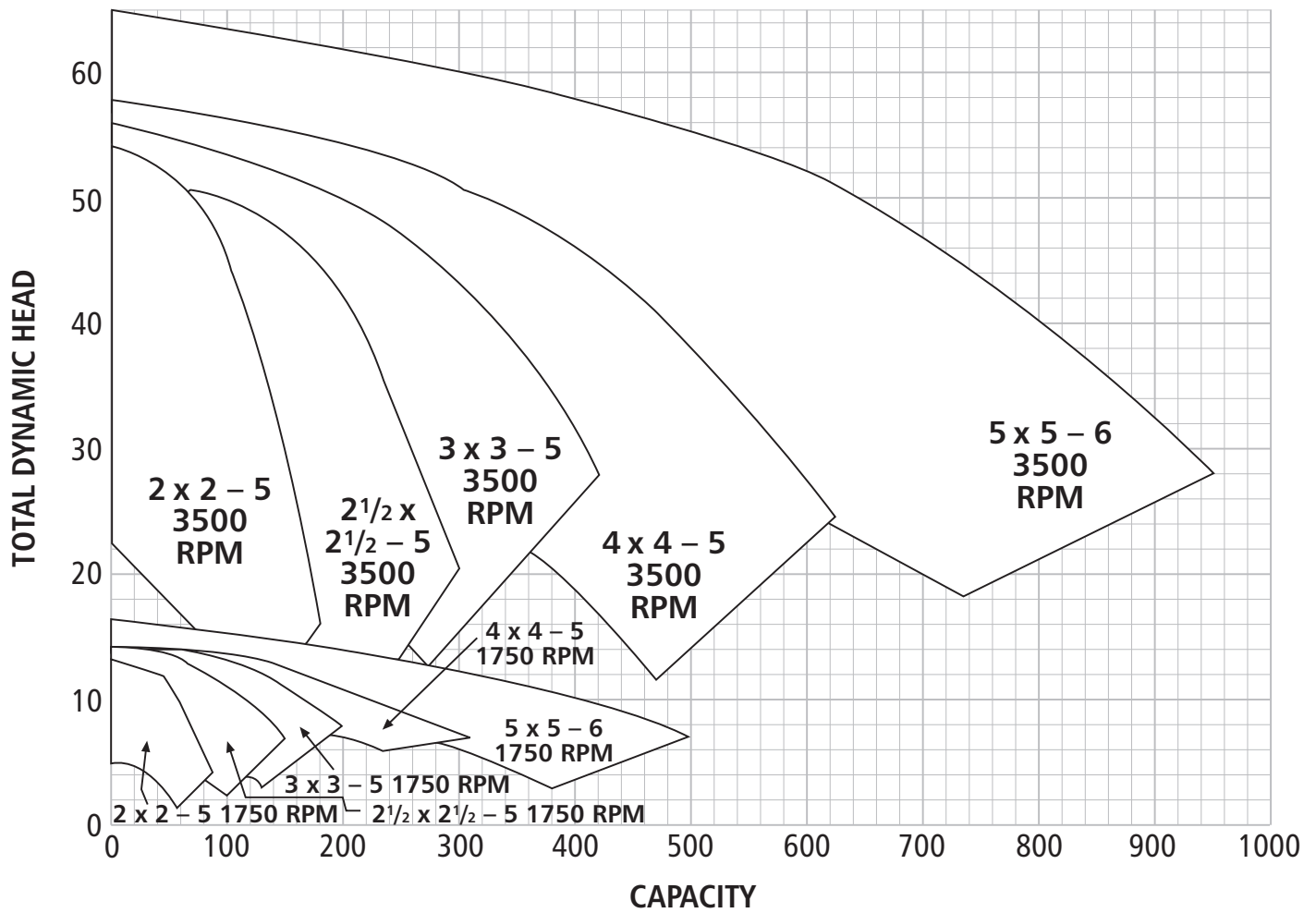
AI = All iron, Todo hierro
BF = Bronze fitted, Recubiertas de bronce

Pump Size, Tamaño de la Bomba

51 = 2 x 2 - 5 54 = 4 x 4 - 5
52 = 2 1/2 x 2 1/2 - 5 55 = 5 x 5 - 6
53 = 3 x 3 - 5

Replace with "FRM" for 3756LH
Reemplace con "FRM" para 3756LH

PERFORMANCE COVERAGE, ALCANCE DE FUNCIONAMIENTO

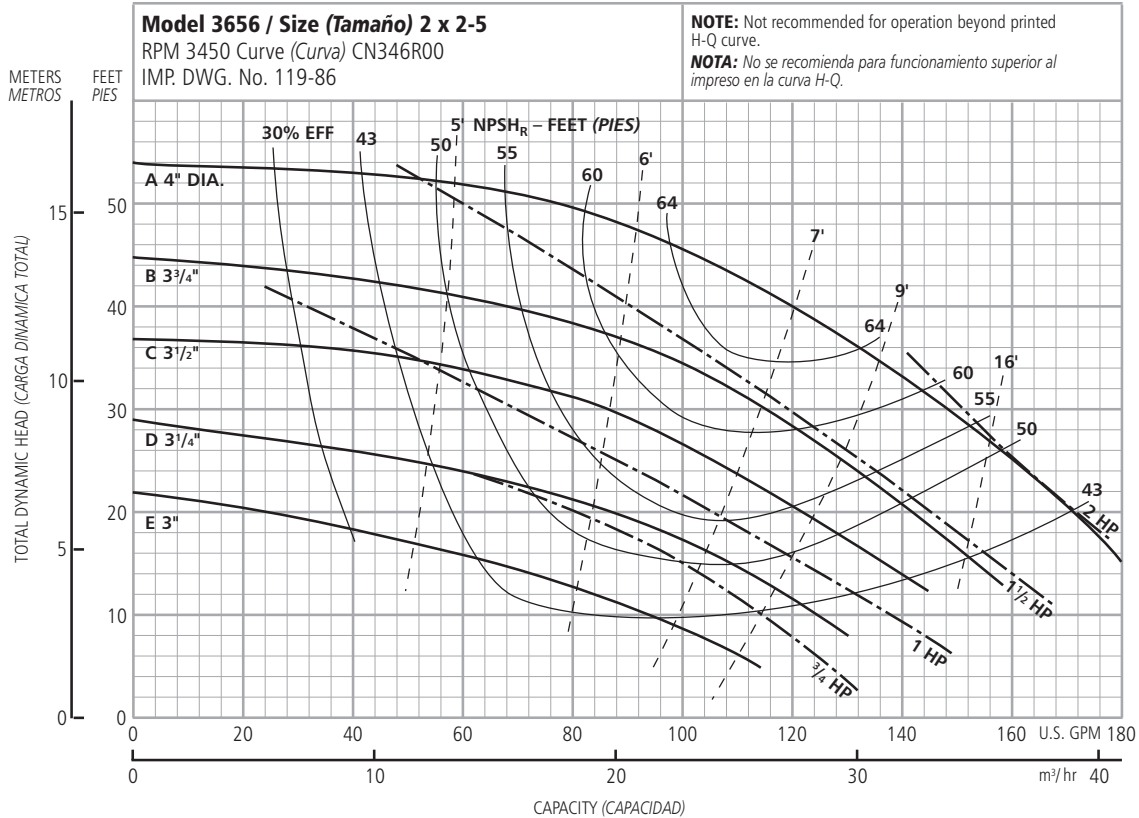


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PERFORMANCE CURVES, CURVAS DE FUNCIONAMIENTO

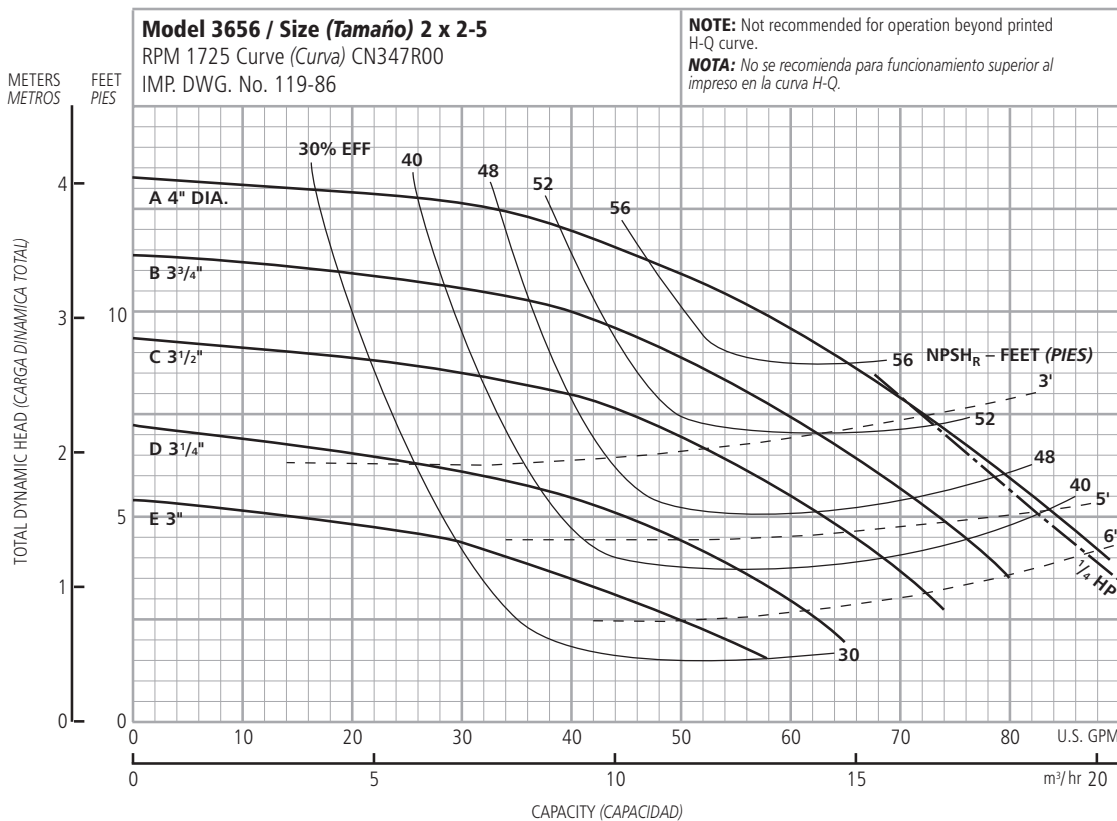
These curves show the performance of the three sizes of the 3656LH and 3756LH at 3500 RPM and 1750 RPM, 60 Hz, and 2900 RPM, 50 Hz. Standard impeller trims are shown.

Estas curvas muestran el rendimiento de los tres tamaños de la 3656LH y 3756LH a 3500 RPM y 1750 RPM, 60 Hz, y 2900 RPM, 50 Hz. Se muestran recortes estándar de impulsor.



| Optional Impeller Impulsor optativo | |
|--|--------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4" |
| B | 3 3/4" |
| C | 3 1/2" |
| D | 3 1/4" |
| E | 3 1/4" |

NOTE: Pump will pass a sphere to 3/32" diameter.
NOTA: La bomba dejará pasar una esfera de hasta 3/32 de pulgada de diámetro.

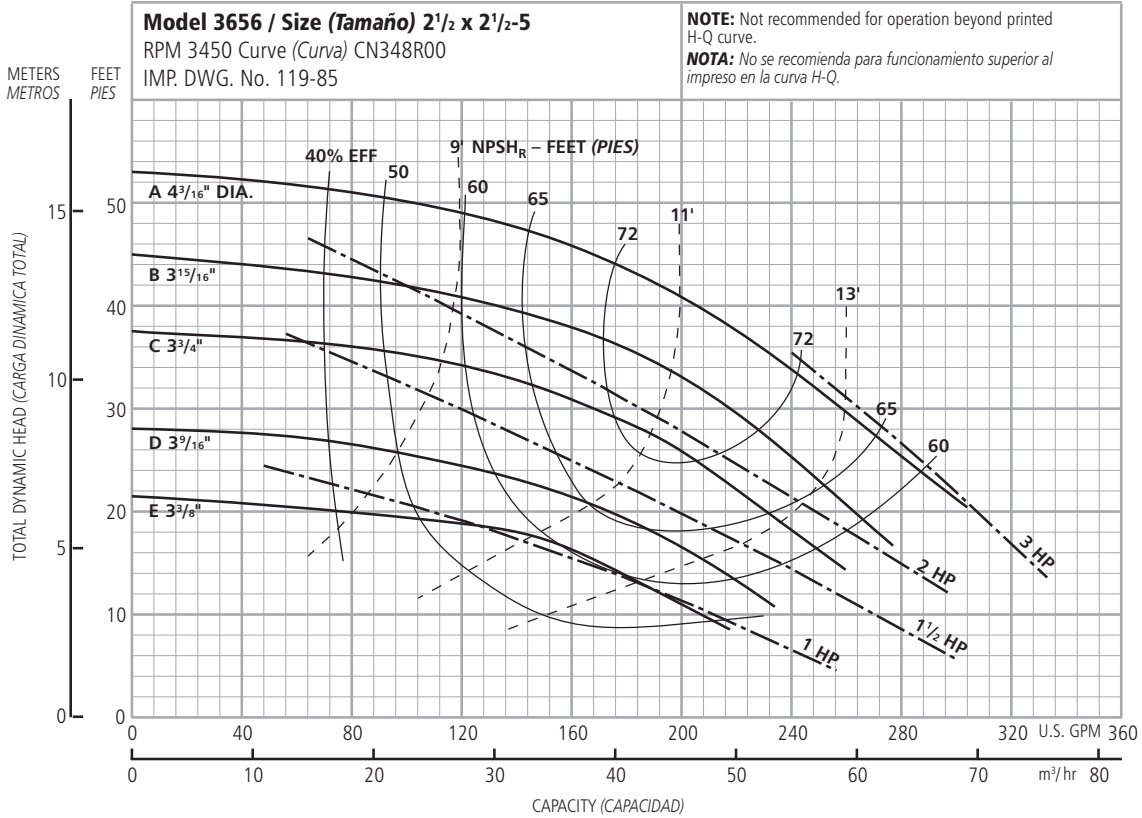


| Optional Impeller Impulsor optativo | |
|--|--------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4" |
| B | 3 3/4" |
| C | 3 1/2" |
| D | 3 1/4" |
| E | 3 1/4" |

NOTE: Pump will pass a sphere to 3/32" diameter.
NOTA: La bomba dejará pasar una esfera de hasta 3/32 de pulgada de diámetro.

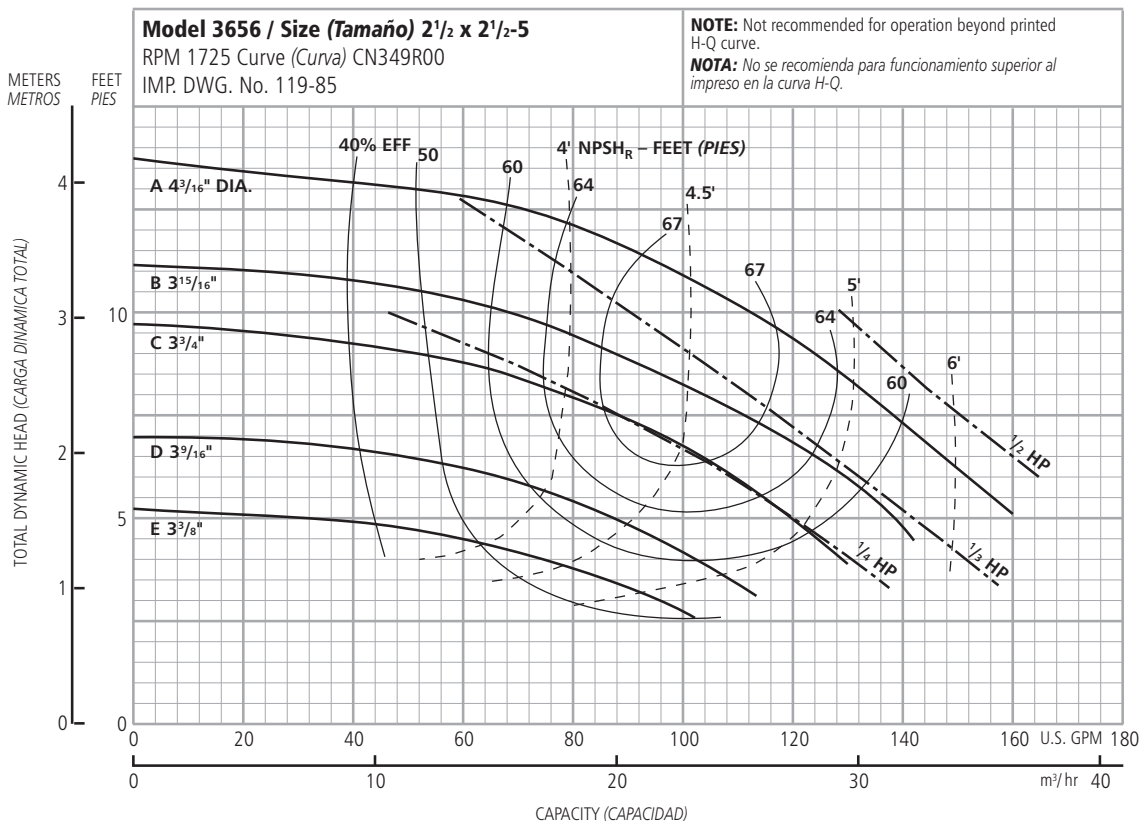
Commercial Water

PERFORMANCE CURVES, CURVAS DE FUNCIONAMIENTO



| Optional Impeller Impulsor optativo | |
|--|--------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4 3/16" |
| B | 3 15/16" |
| C | 3 3/4" |
| D | 3 9/16" |
| E | 3 3/8" |

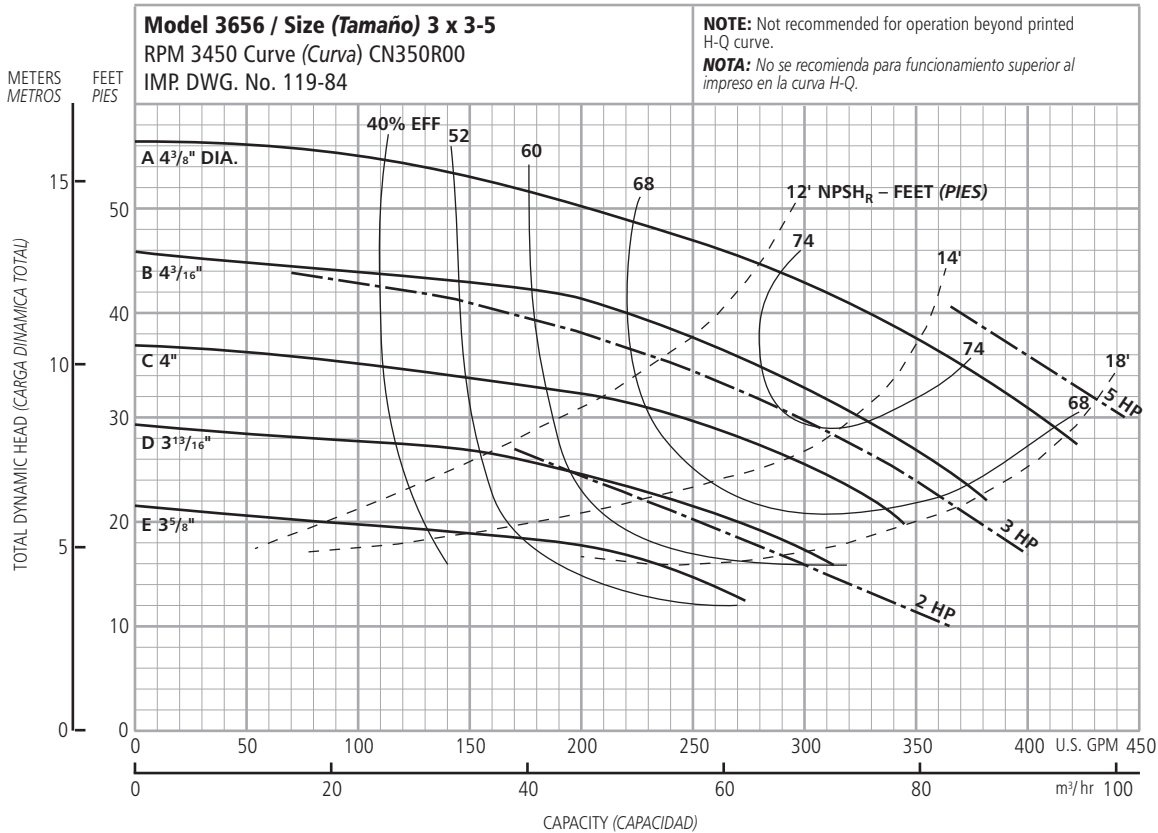
NOTE: Pump will pass a sphere to 5/32" diameter.
NOTA: La bomba dejará pasar una esfera de hasta 5/32 de pulgada de diámetro.



| Optional Impeller Impulsor optativo | |
|--|--------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4 3/16" |
| B | 3 15/16" |
| C | 3 3/4" |
| D | 3 9/16" |
| E | 3 3/8" |

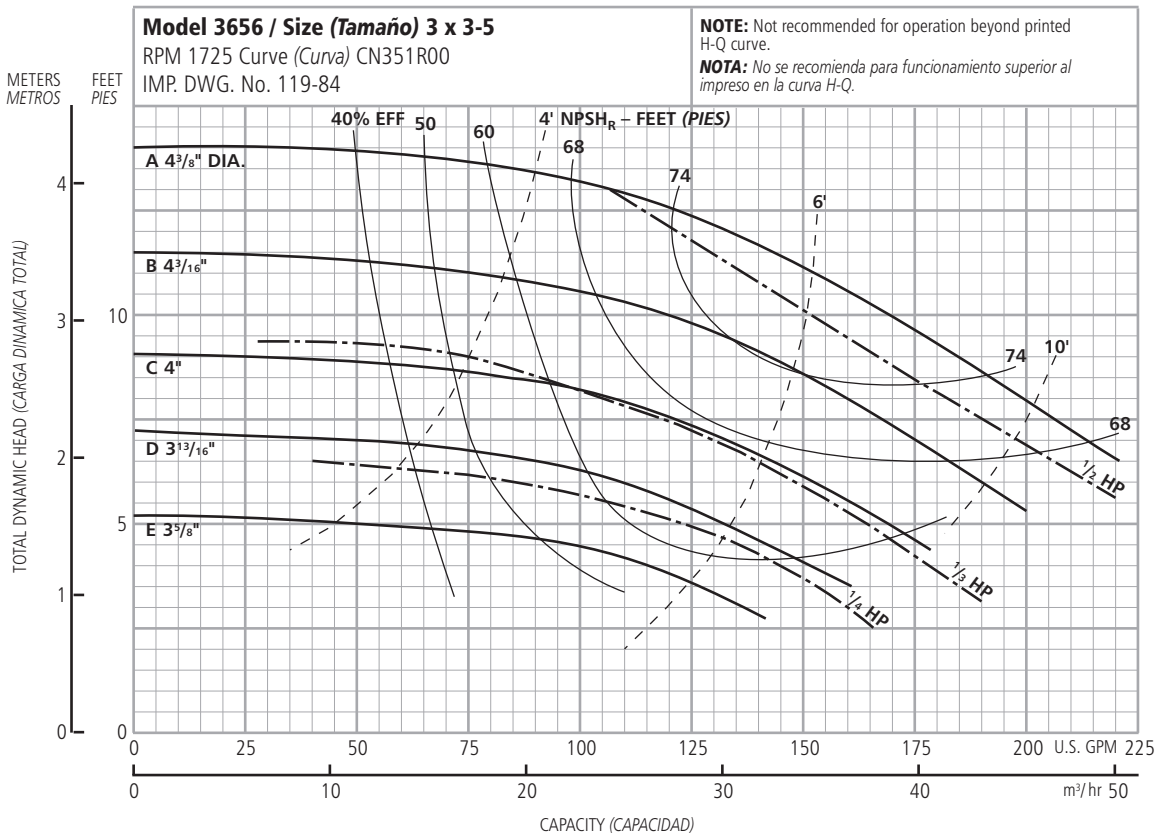
NOTE: Pump will pass a sphere to 5/32" diameter.
NOTA: La bomba dejará pasar una esfera de hasta 5/32 de pulgada de diámetro.

PERFORMANCE CURVES, CURVAS DE FUNCIONAMIENTO



| Optional Impeller Impulsor optativo | |
|--|-----------------------------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4 ³ / ₈ " |
| B | 4 ³ / ₁₆ " |
| C | 4 |
| D | 3 ¹³ / ₁₆ " |
| E | 3 ⁵ / ₈ " |

NOTE: Pump will pass a sphere to ⁵/₃₂" diameter.
NOTA: La bomba dejará pasar una esfera de hasta ⁵/₃₂ de pulgada de diámetro.

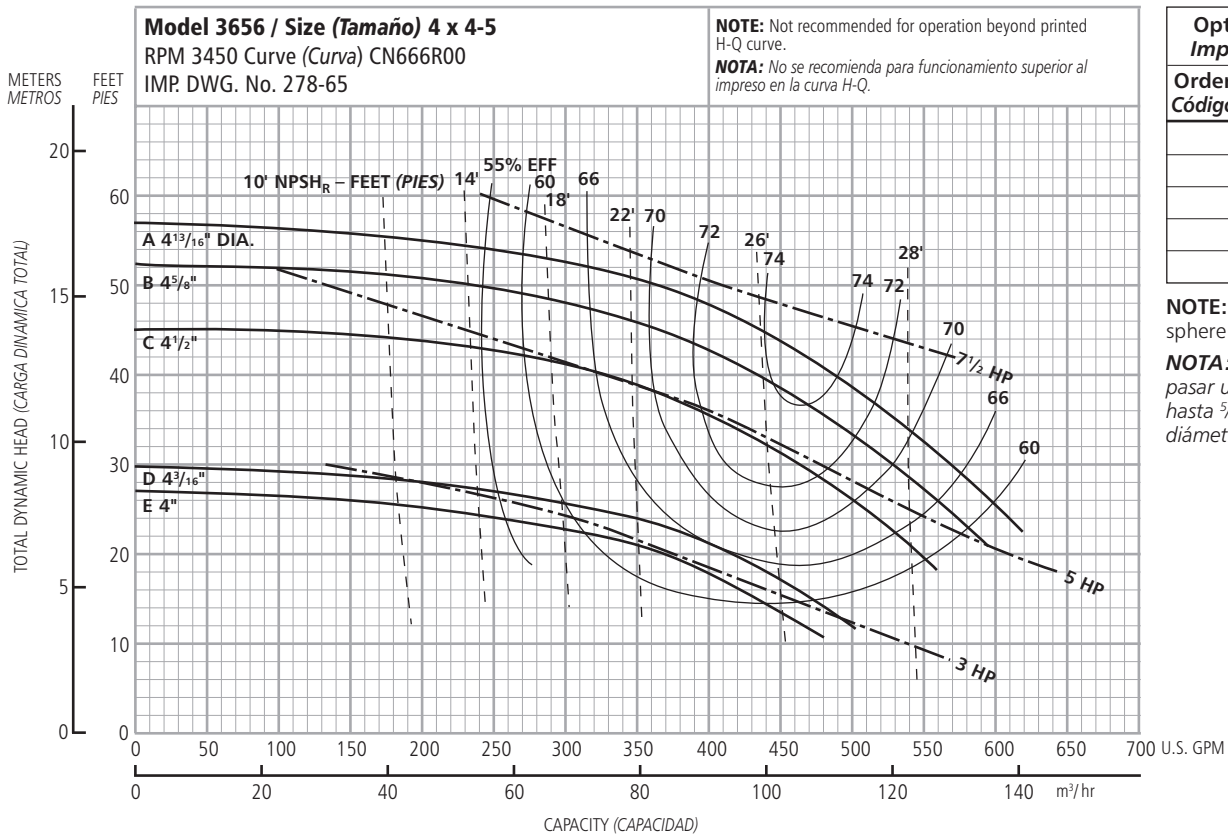


| Optional Impeller Impulsor optativo | |
|--|-----------------------------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4 ³ / ₈ " |
| B | 4 ³ / ₁₆ " |
| C | 4 |
| D | 3 ¹³ / ₁₆ " |
| E | 3 ⁵ / ₈ " |

NOTE: Pump will pass a sphere to ⁵/₃₂" diameter.
NOTA: La bomba dejará pasar una esfera de hasta ⁵/₃₂ de pulgada de diámetro.

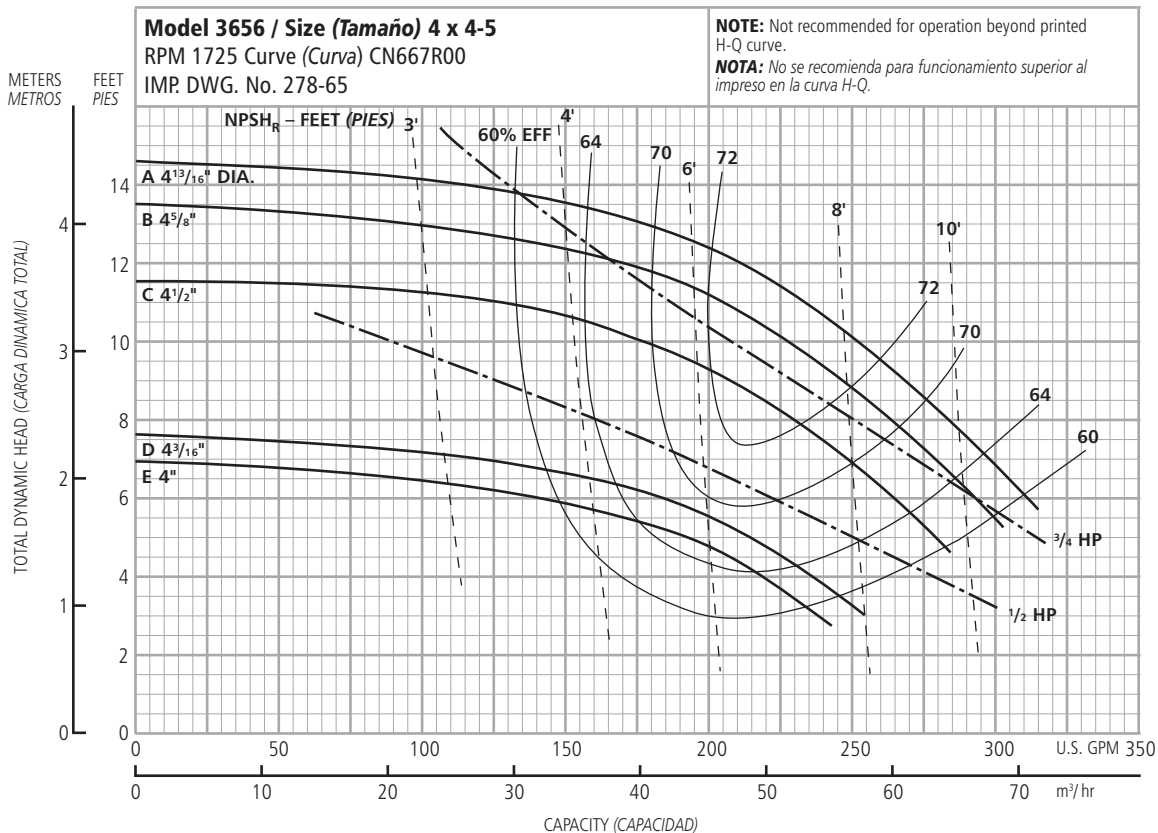
Commercial Water

PERFORMANCE CURVES, CURVAS DE FUNCIONAMIENTO



| Optional Impeller Impulsor optativo | |
|--|---------------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4 ^{3/4} " |
| B | 4 ^{5/8} " |
| C | 4 ^{1/2} " |
| D | 4 ^{3/16} " |
| E | 4" |

NOTE: Pump will pass a sphere to 5/32" diameter.
NOTA: La bomba dejará pasar una esfera de hasta 5/32 de pulgada de diámetro.

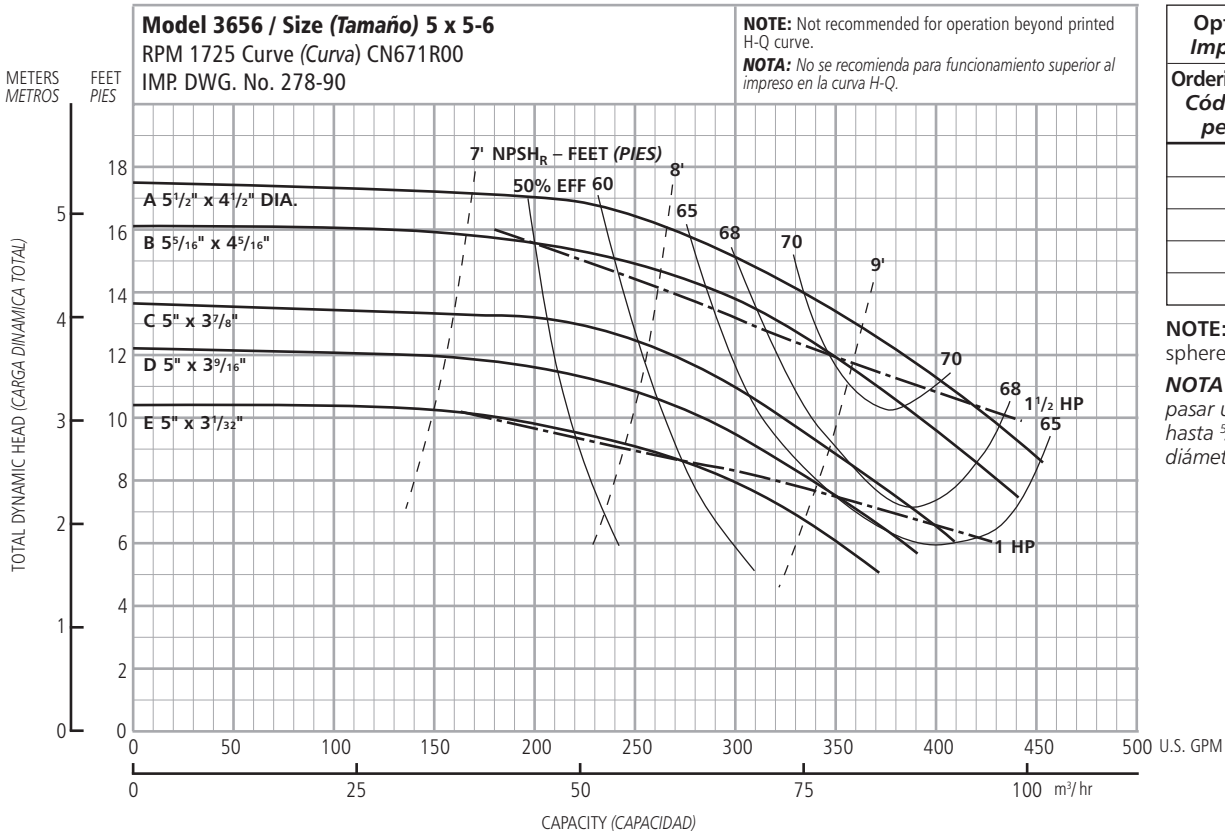
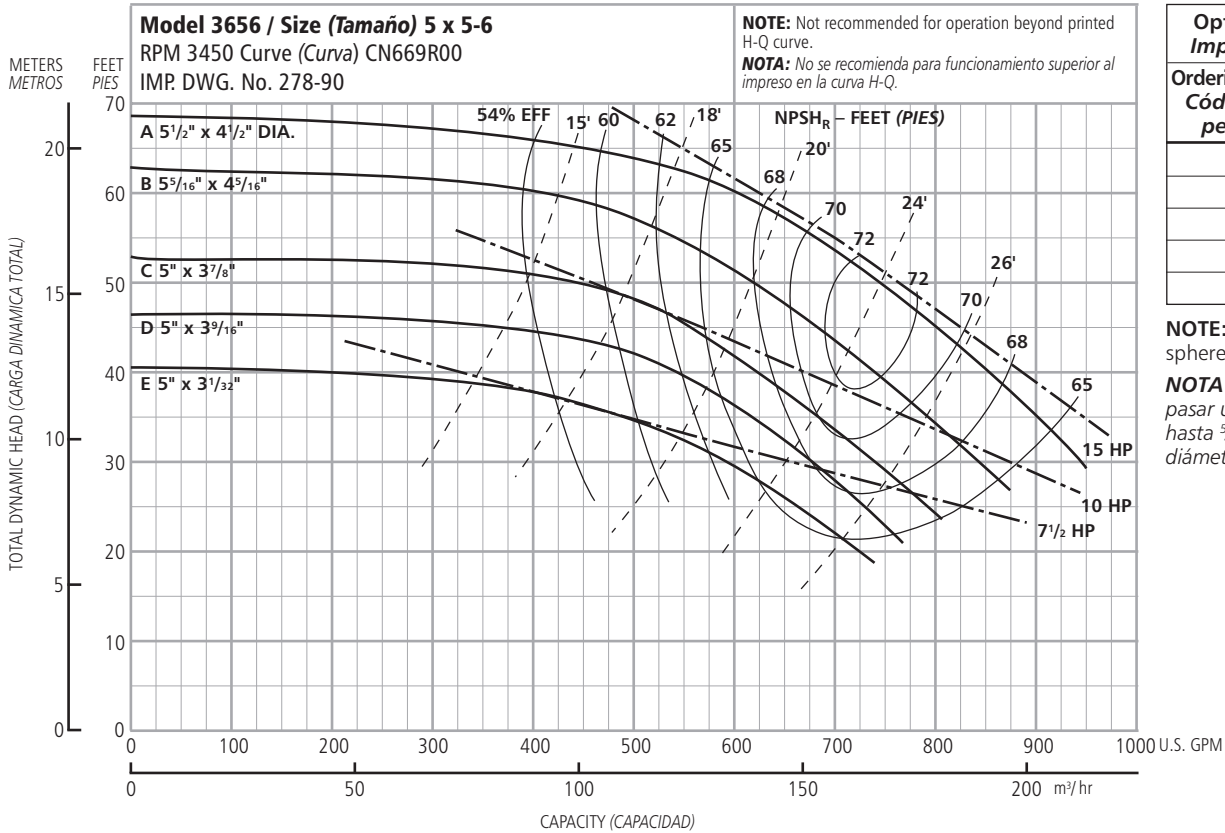


| Optional Impeller Impulsor optativo | |
|--|---------------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4 ^{3/4} " |
| B | 4 ^{5/8} " |
| C | 4 ^{1/2} " |
| D | 4 ^{3/16} " |
| E | 4" |

NOTE: Pump will pass a sphere to 5/32" diameter.
NOTA: La bomba dejará pasar una esfera de hasta 5/32 de pulgada de diámetro.

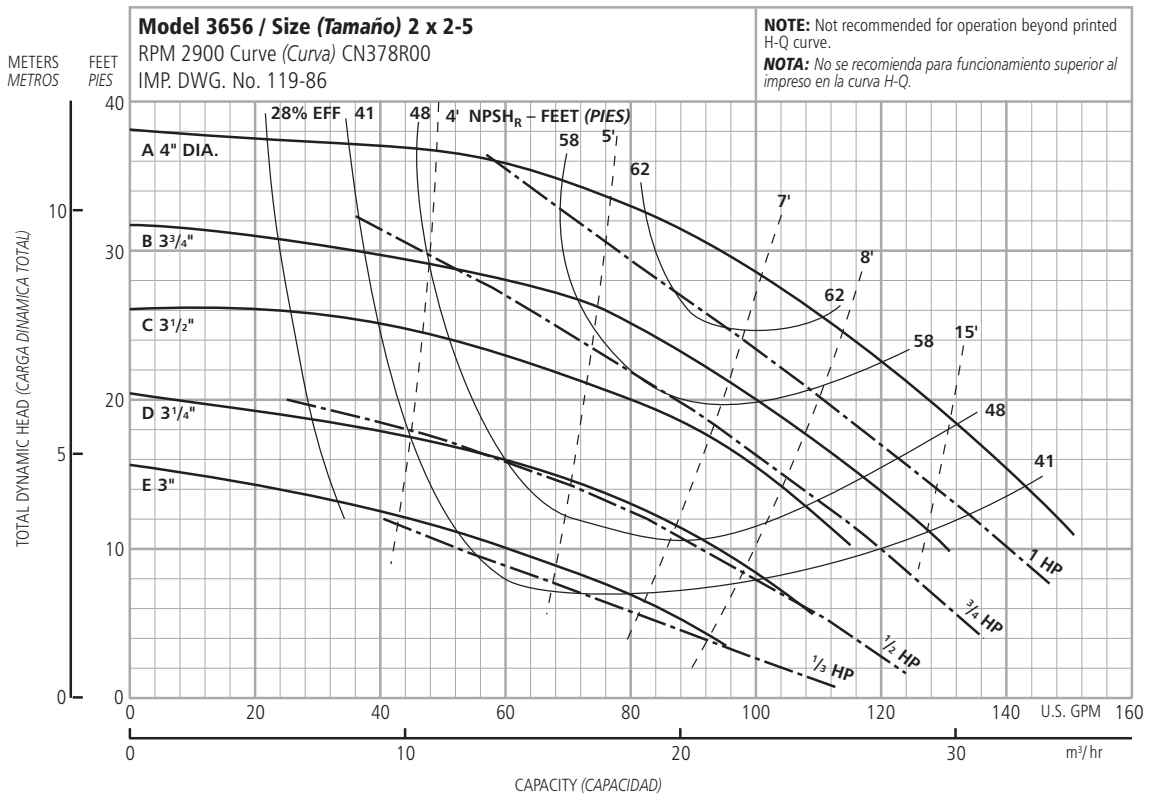
Commercial Water

PERFORMANCE CURVES, CURVAS DE FUNCIONAMIENTO



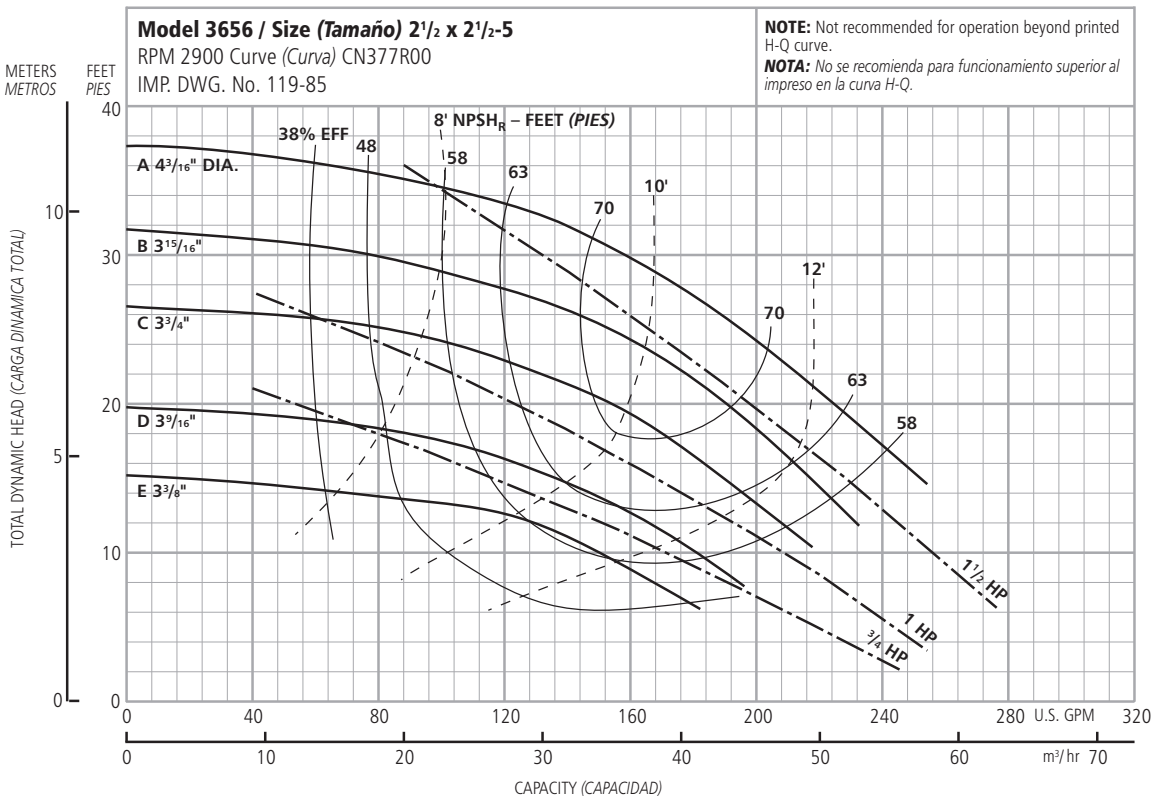
Commercial Water

PERFORMANCE CURVES, CURVAS DE FUNCIONAMIENTO



| Optional Impeller Impulsor optativo | |
|--|--------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4" |
| B | 3 3/4" |
| C | 3 1/2" |
| D | 3 1/4" |
| E | 3" |

NOTE: Pump will pass a sphere to 5/32" diameter.
NOTA: La bomba dejará pasar una esfera de hasta 5/32 de pulgada de diámetro.

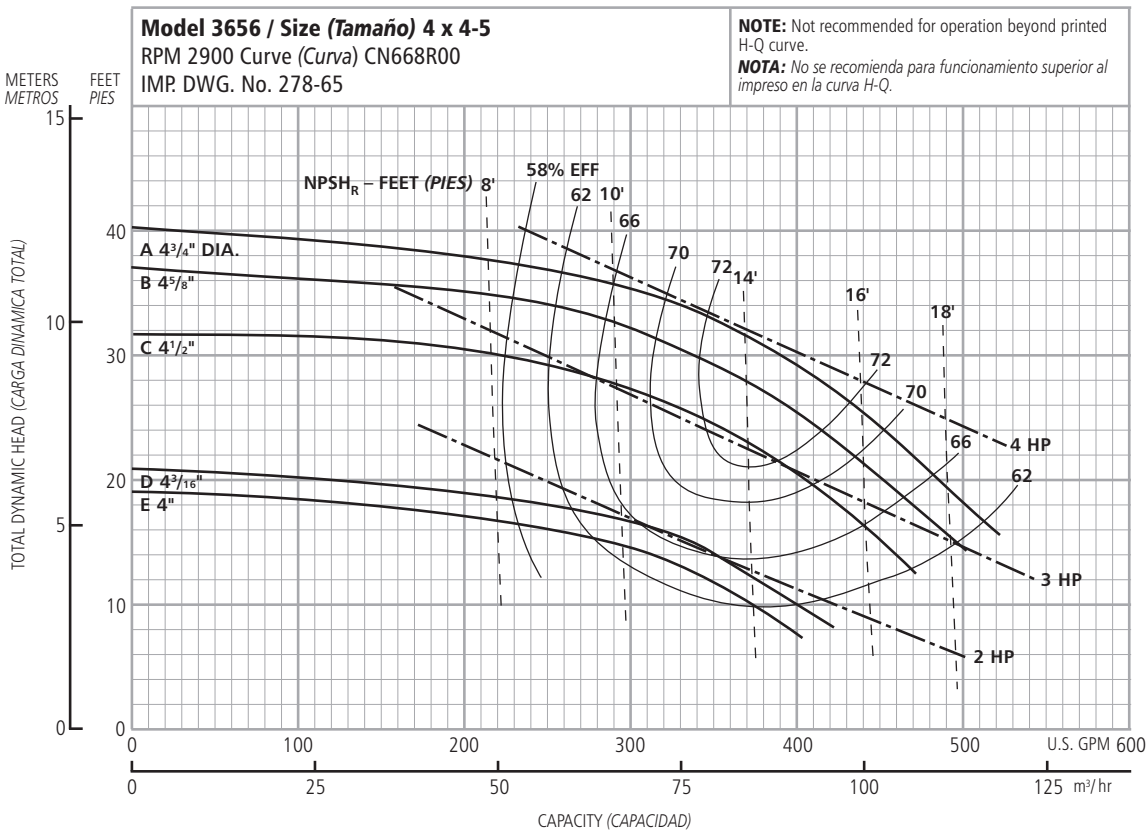
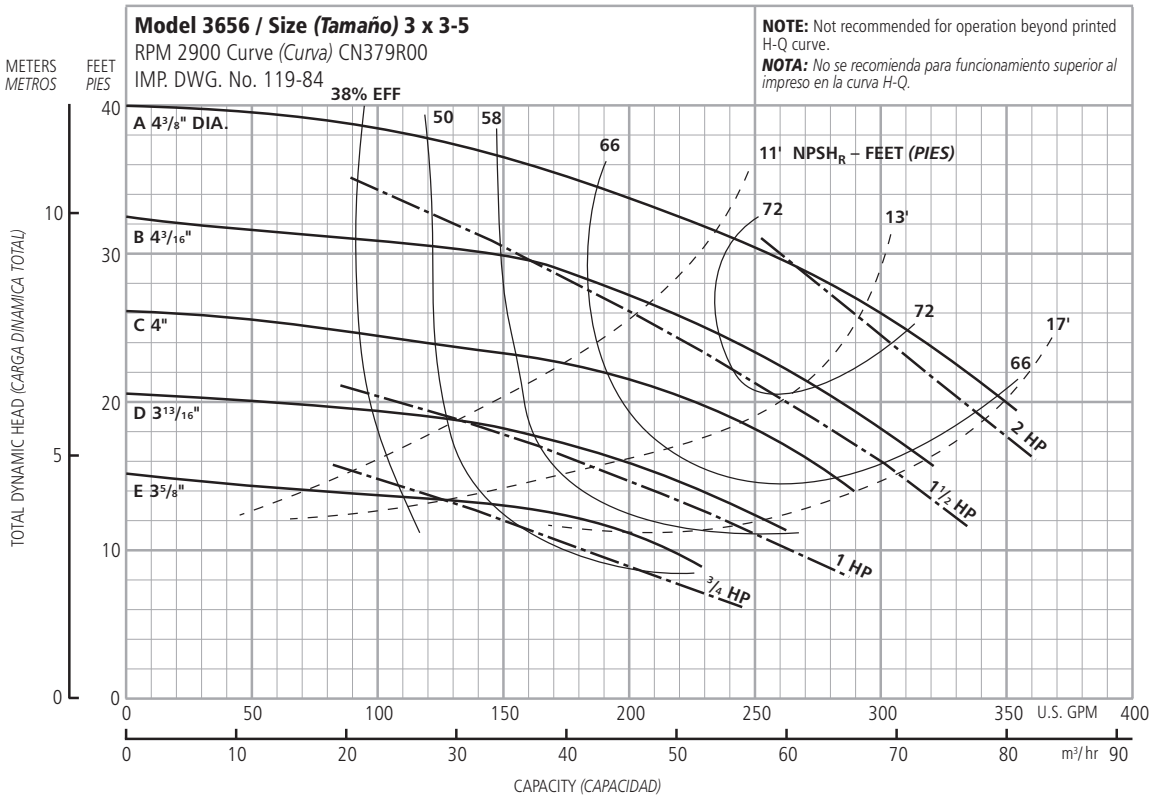


| Optional Impeller Impulsor optativo | |
|--|--------------|
| Ordering Code Código de pedido | Dia. Diá. |
| A | 4 3/16" |
| B | 3 15/16" |
| C | 3 3/4" |
| D | 3 9/16" |
| E | 3 7/8" |

NOTE: Pump will pass a sphere to 5/32" diameter.
NOTA: La bomba dejará pasar una esfera de hasta 5/32 de pulgada de diámetro.

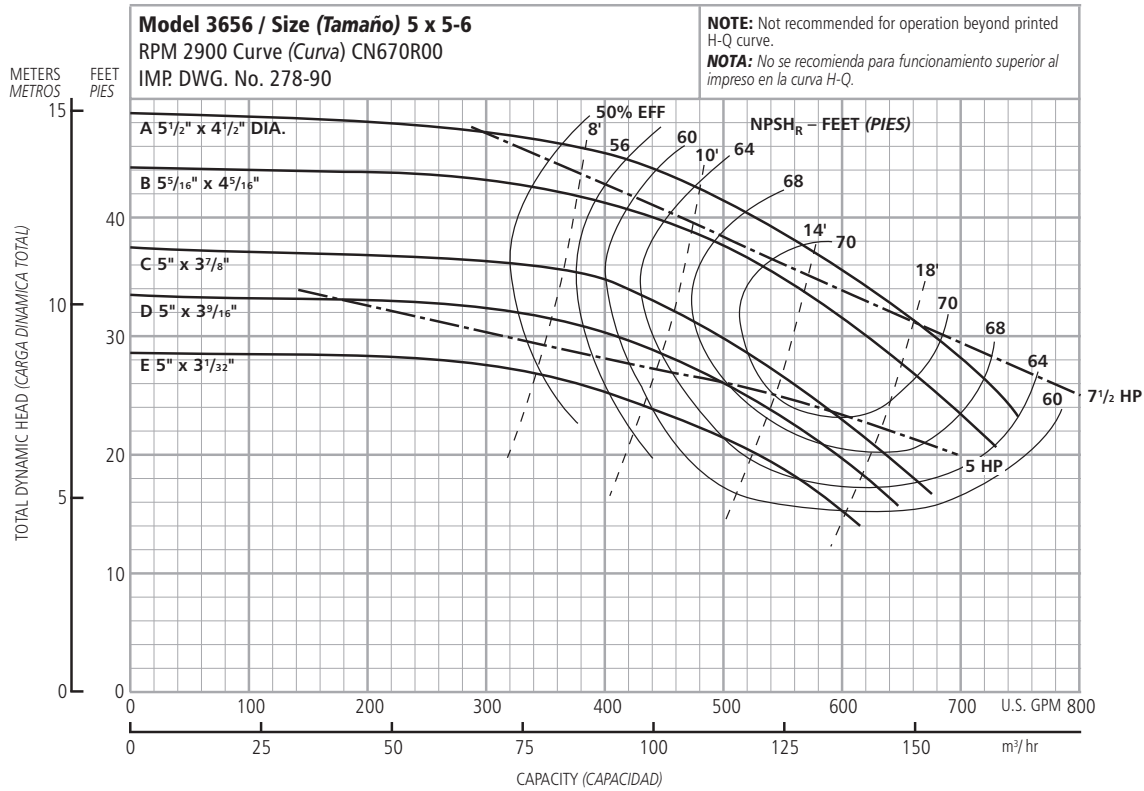
Commercial Water

PERFORMANCE CURVES, CURVAS DE FUNCIONAMIENTO



Commercial Water

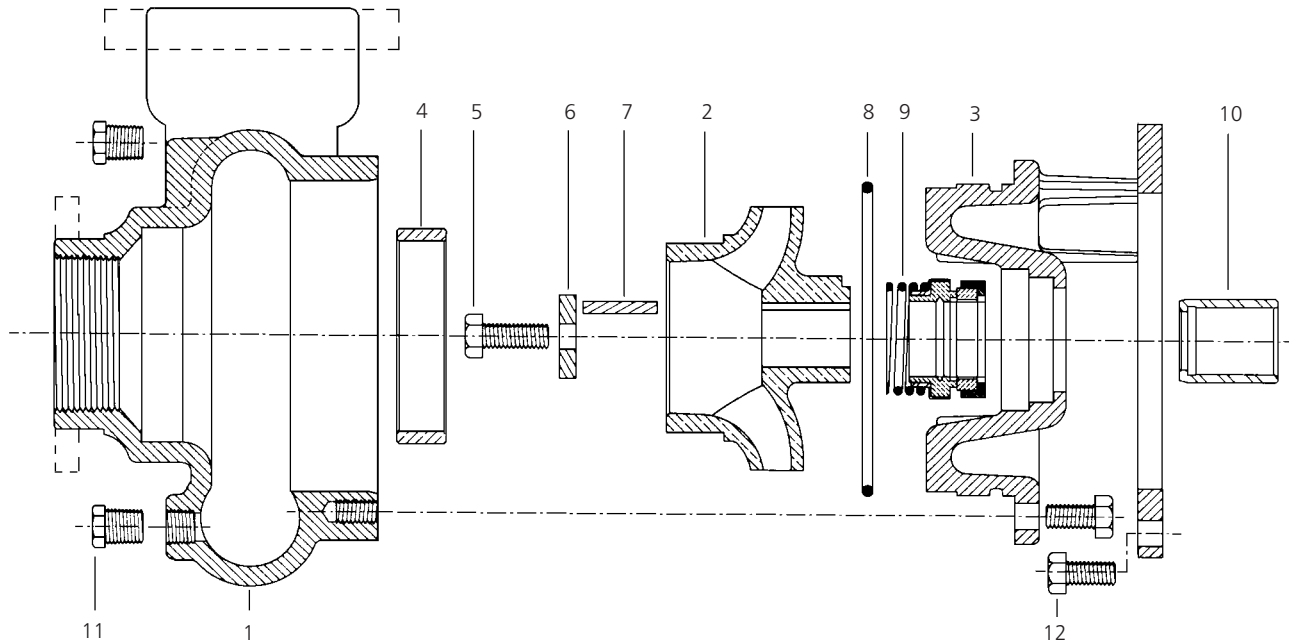
PERFORMANCE CURVES, CURVAS DE FUNCIONAMIENTO



| Optional Impeller Impulsor optativo | |
|--|-----------------|
| Ordering Code Código de pedido | Dia. Día. |
| A | 5 1/2 x 4 1/2 |
| B | 5 5/16 x 4 5/16 |
| C | 5 x 3 7/8 |
| D | 5 x 3 9/16 |
| E | 5 x 3 1/32 |

NOTE: Pump will pass a sphere to 5/32" diameter.
NOTA: La bomba dejará pasar una esfera de hasta 5/32 de pulgada de diámetro.

MATERIALS OF CONSTRUCTION, MATERIALES DE CONSTRUCCIÓN

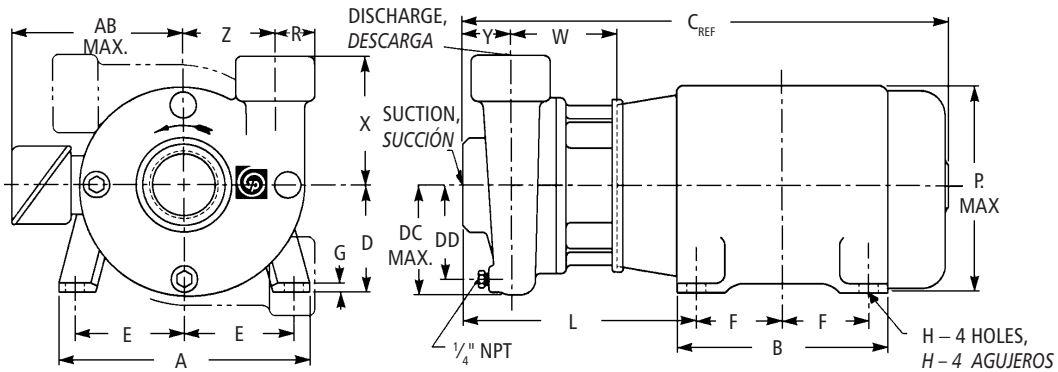


| Item No., Parte No. | Description, Descripción | Material, Materiales | |
|------------------------|--|---|---------------|
| 1 | Casing, <i>Carcasa</i> | Cast iron, <i>Hierro fundido</i> | |
| 2 | Impeller, <i>Impulsor</i> | Cast iron/Sil-brass, <i>Hierro fundido/Bronce</i> | |
| 3 | Motor adapter, <i>Adaptador del motor</i> | Cast iron, <i>Hierro fundido</i> | |
| 4 | Casing wearing ring, <i>Anillo de desgaste de la carcasa</i> | Cast iron/Sil-brass, <i>Hierro fundido/Bronce</i> | |
| 5 | Impeller bolt, <i>Tornillo del impulsor</i> | | |
| 6 | Impeller washer, <i>Arandela del impulsor</i> | 304 SS, | |
| 7 | Square key way, <i>Chavetero cuadrado</i> | 304 Acero inoxidable | |
| 8 | O-ring, <i>Anillo 'O'</i> | BUNA/EPR/Viton | |
| 9 | Seal Code, Código del Sello | Rotary, Stationary, Rotativo Estacionario Elastomers, Elastómeros Metal Parts, Partes Metálicas Part No., Pieza Número | |
| | 0 | Carbon Ceramic BUNA | Type 10K13 |
| | 1 | Carbon Sil-Carb. EPR | 316 SS, 10K19 |
| | 3 | Carbon Sil-Carb. Viton | Tipo 10K27 |
| | 5 | Sil-Carb. Sil-Carb. Viton | 316 SS 10K64 |
| 10 | Shaft sleeve, <i>Camisa del eje</i> | 304 SS, <i>304 Acero inoxidable</i> | |
| 11 | 1/4" pipe plug, <i>Tapón macho roscado de 1/4"</i> | Steel, Zinc plated <i>Acero, cinc plateado</i> | |
| 12 | Hex head screw, <i>Tornillo de cabeza hexagonal</i> | Steel, zinc plated <i>Acero, cinc plateado</i> | |

| Material, <i>Materiales</i> | Engineering Standard, <i>Estándar Aprobado</i> |
|---|---|
| Cast iron, <i>Hierro fundido</i> | ASTM A48CL30 |
| Silicon brass (lead free), <i>Bronce del silicio (sin plomo)</i> | ASTM B584 C87500 (modified, <i>modificado</i>) |

Commercial Water

3656LH DIMENSIONS AND WEIGHTS, 3656LH DIMENSIONES Y PESOS



Close Coupled Dimensions Determined by Pump, Dimensiones del Acople Cerrado Determinadas por la Bomba

| Pump Size, Tamaño de la Bomba | Suction, Succión | Discharge, Descarga | DC Max., DC Máx. | DD | R | W | X | Y | Z | Wt. (lbs.), Peso (libras) | Dimension "L" Motor Frame Size, Tamaño del bastidor del motor de dimensión "L" | |
|---|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|---|---|--------------------------------|-------------------------------|---|--------------------------------|
| | | | | | | | | | | | 140 | 180 |
| 2 x 2 - 5 | 2 | 2 | 3 ¹ / ₁₆ | 2 ¹ / ₁₆ | 1 ⁵ / ₈ | 4 ¹ / ₈ | 5 | 3 | 3 ³ / ₁₆ | 26 | 10 | 10 ⁵ / ₈ |
| 2 ¹ / ₂ x 2 ¹ / ₂ - 5 | 2 ¹ / ₂ | 2 ¹ / ₂ | 4 ³ / ₄ | 3 ³ / ₄ | 3 ³ / ₈ | 4 ¹ / ₄ | 6 | | 3 ¹ / ₂ | 31 | 10 ¹ / ₈ | 10 ³ / ₄ |
| 3 x 3 - 5 | 3 | 3 | 5 ⁵ / ₁₆ | 4 ⁵ / ₁₆ | 2 ³ / ₁₆ | 4 ¹ / ₂ | | 6 | 3 ¹ / ₂ | 3 ⁷ / ₈ | 37 | 10 ⁷ / ₈ |

NOTES:

1. Pumps will be shipped with top vertical discharge as standard. For other orientations, remove casing bolts, rotate to desired position, replace and tighten bolts to 37 lb. - ft.

2. Dimensions are in inches.

3. Motor dimensions may vary with motor manufacturer.

4. Not to be used for construction purposes.

Dimensions Determined by Motor, Dimensiones Determinadas por el Motor

| Motor Frame, Armazón del Motor | A | AB Max., AB Máx. | B | C _{REF} | D | E | F | G | H | P. Max., P. Máx. |
|-----------------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|
| 143JM | 6 ¹ / ₂ | 5 ¹ / ₄ | 6 | 11 ¹ / ₄ | 3 ¹ / ₂ | 2 ³ / ₄ | 2 | 1 ¹ / ₈ | 1 ¹ / ₃₂ | 6 ⁵ / ₈ |
| 145JM | | | | | | | 2 ¹ / ₂ | | | |
| 182JM | 8 ¹ / ₂ | 5 ⁷ / ₈ | 6 ¹ / ₂ | 15 | 4 ¹ / ₂ | 3 ³ / ₄ | 2 ¹ / ₄ | 3 ¹ / ₁₆ | 1 ³ / ₃₂ | 7 ¹ / ₈ |
| 184JM | | | | | | | 2 ³ / ₄ | | | |
| 213TCZ | 10 ¹ / ₂ | 7 ³ / ₈ | 8 | 18 ¹ / ₂ | 5 ¹ / ₄ | 4 ¹ / ₄ | 2 ³ / ₄ | 1 ¹ / ₄ | 1 ³ / ₃₂ | 9 ⁵ / ₈ |

NOTAS:

1. Las bombas se transportarán con la descarga vertical superior como estándar. Para otras orientaciones, retirar los tornillos de la carcasa, rotar a la posición deseada, reemplazar y apretar los tornillos 37 libras - pies.

2. Las dimensiones son en pulgadas.

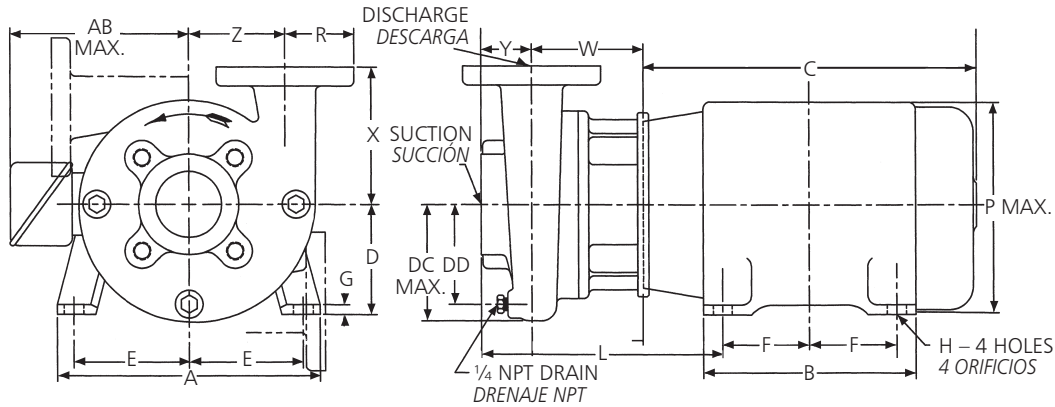
3. Las dimensiones del motor pueden que varíen con los fabricantes.

4. No debe usarse para propósitos de construcción.

Horsepowers, Fuerzas

| Motor Frame, Armazón del Motor | HP @ 3500 RPM | | | | HP @ 1750 RPM | | | | Wt. (lbs.), Peso (libras) |
|-----------------------------------|----------------------|---------------|---------------------|---------------|----------------------|----------|---------------------|-------------|------------------------------|
| | 1 Phase, Monofásicos | | 3 Phase, Trifásicos | | 1 Phase, Monofásicos | | 3 Phase, Trifásicos | | |
| | ODP | TEFC | ODP | TEFC | ODP | TEFC | ODP | TEFC | |
| 143JM | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 1/2, 3/4 | 1/2, 3/4 | 1/2, 3/4, 1 | 1/2, 3/4, 1 | 41 |
| 145JM | 2 | 2 | 2,3 | 2,3 | 1 | 1 | 1 1/2, 2 | 1 1/2, 2 | 57 |
| 182JM | 3 | 3 | 5 | 3 | 3 | - | 3 | 3 | 77 |
| 184JM | 5 | 3, 5 | 7 1/2 | 5, 7 1/2 | 3 | - | 5 | 5 | 97 |
| 213TCZ | - | - | 10 | 10 | - | - | - | - | 133 |

3656LH DIMENSIONS AND WEIGHTS, 3656LH DIMENSIONES Y PESOS



Close Coupled Dimensions Determined by Pump, Dimensiones del Acople Cerrado Determinadas por la Bomba

| Pump Size, Tamaño de la Bomba | Suction*, Succión | Discharge*, Descarga | DC Max., DC Max. | DD | R | W | X | Y | Z | Wt. (lbs.), Peso (libras) | Dimension "L" Motor Frame Size, Tamano del bastidor del motor de dimension "L" | | |
|----------------------------------|----------------------|-------------------------|----------------------|-------|-------|---|-------|-------|-----|------------------------------|---|--------|-----|
| | | | | | | | | | | | 140 | 180 | 210 |
| 4 x 4 – 5 | 4 | 6 1/2 | 5 1/4 | 4 1/2 | 4 1/4 | 7 | 4 | 4 1/2 | 110 | 11 3/8 | 12 | 12 7/8 | |
| 5 x 5 – 6 | 5 | 8 | 6 1/4 | 5 | 8 | 8 | 5 1/2 | 125 | | | | | |

* ANSI Class 125 flanges, *Bridas ANSI Clase 125*

NOTES:

1. Pumps will be shipped with top vertical discharge as standard. For other orientations, remove casing bolts, rotate to desired position, replace and tighten bolts to 37 lb. – ft.
2. Dimensions are in inches.
3. Motor dimensions may vary with motor manufacturer.
4. Not to be used for construction purposes.

Dimensions Determined by Motor, Dimensiones Determinadas por el Motor

| Motor Frame, Armazon del Motor | A | AB Max., AB Max. | B | C | D | E | F | G | H | P. Max., P. Max. |
|------------------------------------|--------|----------------------|-------|--------|-------|-------|-------|------|--------|----------------------|
| 143JM | 6 1/2 | 5 1/4 | 6 | 11 1/4 | 3 1/2 | 2 3/4 | 2 | 1/8 | 1 1/32 | 6 5/8 |
| 145JM | | | | | | | 2 1/2 | | | |
| 182JM | 8 1/2 | 5 5/8 | 6 1/2 | 15 | 4 1/2 | 3 3/4 | 2 1/4 | 3/16 | 1 3/32 | 7 7/8 |
| 184JM | | | | | | | 2 3/4 | | | |
| 213JM | 10 1/2 | 7 3/8 | 8 | 18 1/2 | 5 1/4 | 4 1/4 | 2 3/4 | 1/4 | 1 3/32 | 9 5/8 |
| 213TCZ | | | | 20 | | | | | | |
| 215JM | | | | 3 1/2 | | | | | | |

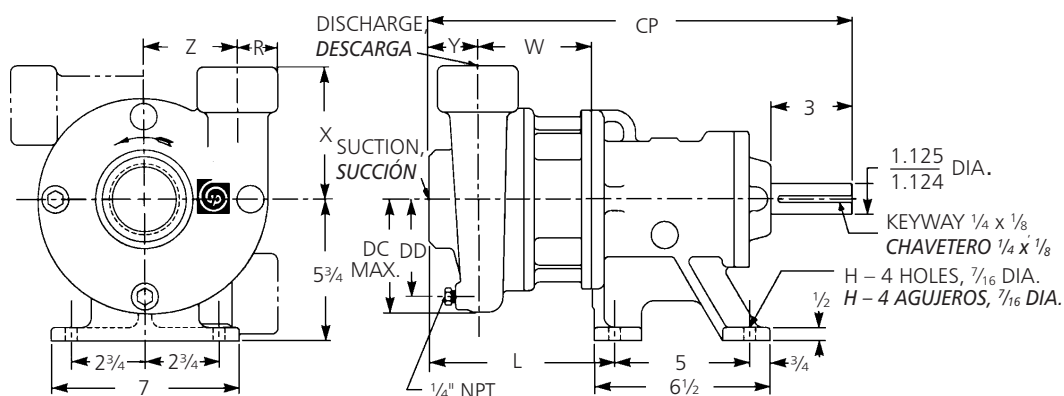
NOTAS:

1. Las bombas se transportaran con la descarga vertical superior como estandar. Para otras orientaciones, retirar los tornillos de la carcasa, rotar a la posicion deseada, reemplazar y apretar los tornillos a 37 libras – pies.
2. Las dimensiones son en pulgadas.
3. Las dimensiones del motor pueden que varen con los fabricantes.
4. No debe usarse para propositos de construccion.

Horsepowers, Fuerzas

| Motor Frame, Armazon del Motor | HP @ 3500 RPM | | | | HP @ 1750 RPM | | | | Wt. (lbs.), Peso (libras) |
|------------------------------------|-----------------------|---------------|----------------------|---------------|-----------------------|----------|----------------------|-------------|------------------------------|
| | 1 Phase, Monofasicos | | 3 Phase, Trifasicos | | 1 Phase, Monofasicos | | 3 Phase, Trifasicos | | |
| | ODP | TEFC | ODP | TEFC | ODP | TEFC | ODP | TEFC | |
| 143JM | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 1/2, 3/4 | 1/2, 3/4 | 1/2, 3/4, 1 | 1/2, 3/4, 1 | 41 |
| 145JM | 2 | 2 | 2,3 | 2,3 | 1 | 1 | 1 1/2, 2 | 1 1/2, 2 | 57 |
| 182JM | 3 | 3 | 5 | 3 | 3 | – | 3 | 3 | 77 |
| 184JM | 5 | 3, 5 | 7 1/2 | 5, 7 1/2 | 3 | – | 5 | 5 | 97 |
| 213JM | 7 1/2 | – | 7 1/2, 10 | 7 1/2 | – | – | – | – | 133 |
| 213TCZ | – | 7 1/2 | – | 7 1/2 | – | – | – | – | 133 |
| 215JM | 10 | 7 1/2, 10 | 7 1/2, 10, 15 | 7 1/2, 10, 15 | – | – | – | – | 154 |

3756LH DIMENSIONS AND WEIGHTS, 3756LH DIMENSIONES Y PESOS



Frame Mounted Dimensions Determined by Pump, Dimensiones del Armazón Montado Determinadas por la Bomba

| Pump Size, Tamaño de la Bomba | Suction*, Succión | Discharge*, Descarga | CP | DC Max., DC Máx. | DD | L | R | W | X | Y | Z | Wt. (lbs.), Peso (libras) | HL Motor Frame, Armazón del Motor HL |
|-------------------------------|-------------------|----------------------|--------|------------------|---------|--------|--------|-------|-------|-------|--------|---------------------------|--------------------------------------|
| 2 x 2 - 5 | 2 | 2 | 16 3/4 | 3 15/16 | 2 15/16 | 9 1/2 | 1 7/8 | 4 1/8 | 5 | 3 | 3 5/16 | 26 | 9 1/2 |
| 2 1/2 x 2 1/2 - 5 | 2 1/2 | 2 1/2 | 17 3/8 | 4 3/4 | 3 3/4 | 9 5/8 | 3 3/8 | 4 1/4 | 6 | 3 1/2 | 3 1/2 | 31 | 9 5/8 |
| 3 x 3 - 5 | 3 | 3 | 17 7/8 | 5 1/16 | 4 1/16 | 10 3/8 | 2 3/16 | 4 1/2 | 3 1/2 | 3 3/8 | 3 3/8 | 37 | 10 3/8 |

* NPT connections, Conexiones NPT

Dimensions Determined by Bedplate, Dimensiones Determinadas por la Fundación

| Motor Frame, Armazón del Motor | HA | HB | HD | HE | HF | HG | HL | HP | Wt. (lbs.), Peso (libras) | Motor Shim, Deflector del Motor | Bearing Frame Shim, Armazón de Balineras |
|--------------------------------|----|----|----|-------|----|-------|--------|-----|---------------------------|---------------------------------|--|
| 143T | 10 | 28 | 8 | 3 3/4 | 24 | 2 3/4 | 10 3/8 | 3/4 | 47 | 1 3/4 | - |
| 145T | | | | | | | | | | | |
| 182T | | | | | | | | | | 3/4 | - |
| 184T | | | | | | | | | | | |

Horsepowers, Fuerzas

| Motor Frame, Armazón del Motor | HP @ 3500 RPM | | | | HP @ 1750 RPM | | | | AB Max., AB Máx. | C Max., C Máx. | P Max., P Máx. | Wt. (lbs.), Peso (libras) |
|--------------------------------|-------------------|---------------|------------------|---------------|-------------------|----------|------------------|-------------|------------------|----------------|----------------|---------------------------|
| | 1 PH, Monofásicos | | 3 PH, Trifásicos | | 1 PH, Monofásicos | | 3 PH, Trifásicos | | | | | |
| | ODP | TEFC | ODP | TEFC | ODP | TEFC | ODP | TEFC | | | | |
| 143T | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 1/2, 3/4 | 1/2, 3/4 | 1/2, 3/4, 1 | 1/2, 3/4, 1 | 5 1/4 | 13 3/8 | 6 7/8 | 45 |
| 145T | 2 | 2 | 2, 3 | 2, 3 | 1 | 1 | - | - | 5 1/4 | 14 1/4 | 6 7/8 | 53 |
| 182T | 3 | - | 5 | 3 | - | - | - | - | 5 7/8 | 16 5/8 | 7 7/8 | 74 |
| 184T | 5 | 3 | - | 5 | - | - | - | - | 5 7/8 | 18 1/8 | 7 7/8 | 95 |

NOTES:

- Pumps will be shipped with top vertical discharge as standard. For other orientations, remove casing bolts, rotate to desired position, replace and tighten bolts to 37 lb. - ft.

- Dimensions are in inches.

- Motor dimensions may vary with motor manufacturer.

- Not to be used for construction purposes.

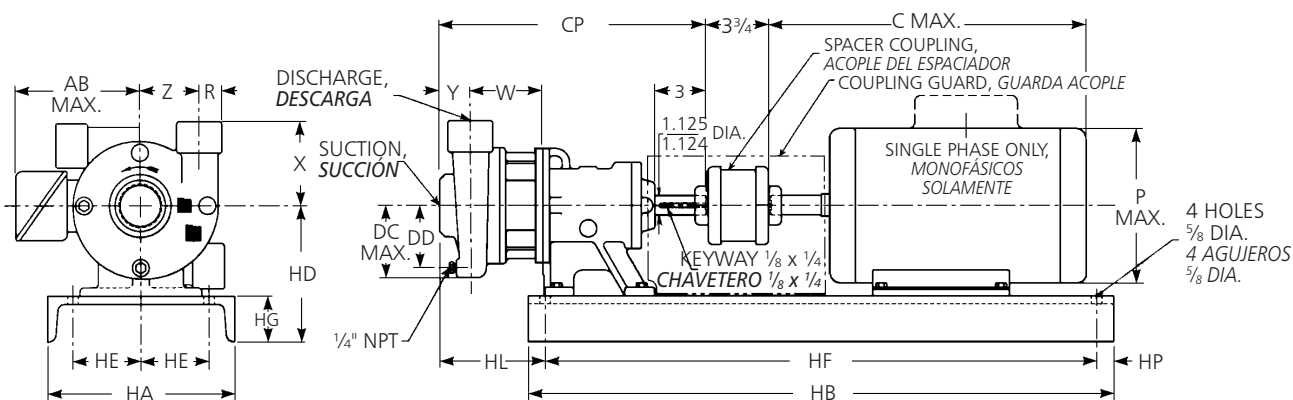
NOTAS:

- Las bombas se transportarán con la descarga vertical superior como estándar. Para otras orientaciones, retirar los tornillos de la carcasa, rotar a la posición deseada, reemplazar y apretar los tornillos a 37 libras - pies.

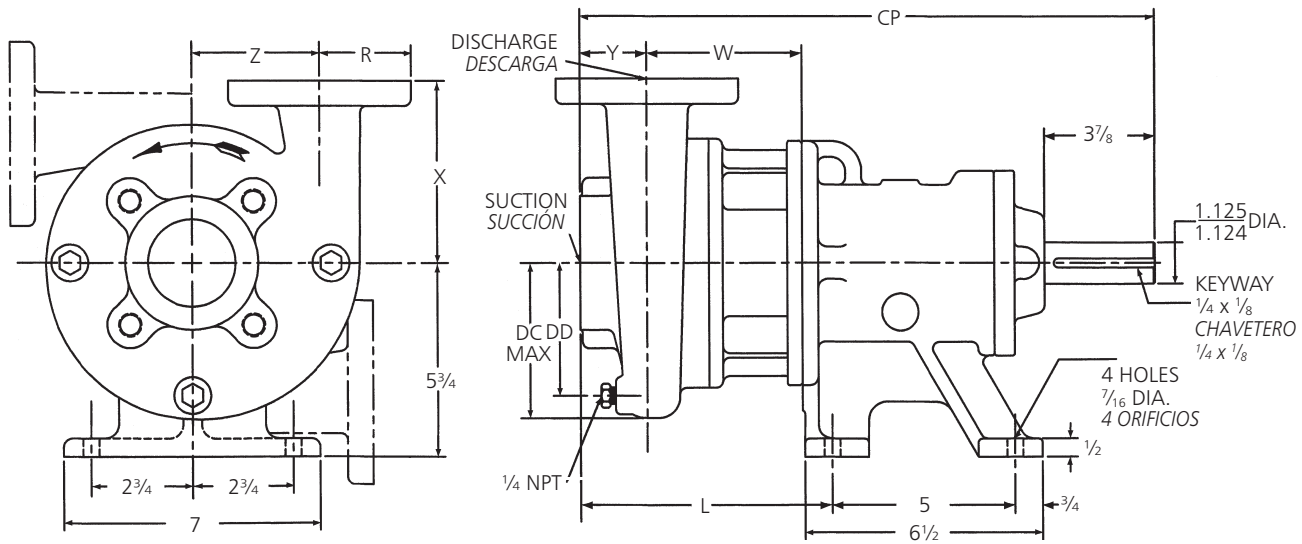
- Las dimensiones son en pulgadas.

- Las dimensiones del motor pueden que varien con los fabricantes.

- No debe usarse para propósitos de construcción.



3756LH DIMENSIONS AND WEIGHTS, 3756LH DIMENSIONES Y PESOS



Frame Mounted Dimensions Determined by Pump, Dimensiones del Armazón Montado Determinadas por la Bomba

| Pump Size, Tamaño de la Bomba | Suction*, Succión | Discharge*, Descarga | CP | DC Max., DC Máx. | DD | L | R | W | X | Y | Z | HL Motor Frame Armazón del Motor HL | | Wt. (lbs.), Peso (libras) |
|----------------------------------|----------------------|-------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|---|---|-------------------------------|--|--------------------------------|------------------------------|
| | | | | | | | | | | | | 140-180 | 210 | |
| 4 x 4 - 5 | 4 | | 17 ⁷ / ₈ | 6 ¹ / ₂ | 5 ¹ / ₄ | 8 ³ / ₄ | 4 ¹ / ₂ | 4 ¹ / ₄ | 7 | 4 | 4 ¹ / ₂ | 10 ¹ / ₄ | 8 ³ / ₄ | 142 |
| 5 x 5 - 6 | 5 | | | 8 | 6 ¹ / ₄ | 9 ² / ₃₂ | 5 | 4 ¹ / ₄ | 8 | | 5 ¹ / ₂ | 11 ⁵ / ₃₂ | 9 ² / ₃₂ | 157 |

* ANSI Class 125 Flanges, Bridas ANSI Clase 125

Dimensions Determined by Bedplate, Dimensiones Determinadas por la Fundación

| Motor Frame, Armazón del Motor | HA | HB | HD | HE | HF | HG | HP | Wt. (lbs.), Peso (libras) | Motor Shim, Deflector del Motor | Bearing Frame Shim, Armazón de Balineras |
|-----------------------------------|----|----|-------------------------------|-------------------------------|----|-------------------------------|-------------------------------|------------------------------|------------------------------------|---|
| 143T | 10 | 28 | 8 | 3 ³ / ₄ | 24 | 2 ³ / ₄ | 3 ³ / ₄ | 47 | 1 ³ / ₄ | - |
| 145T | | | | | | | | | | |
| 182T | | | | | | | | | | |
| 184T | | | | | | | | | | |
| 213T/215T | 12 | 31 | 8 ¹ / ₄ | 4 ¹ / ₄ | 29 | 3 | 1 | 65 | - | - |

Horsepowers, Fuerzas

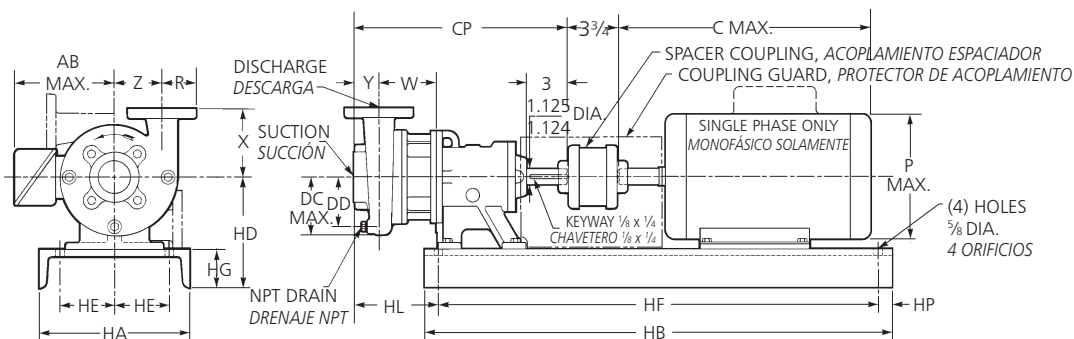
| Motor Frame, Armazón del Motor | HP @ 3500 RPM | | | | HP @ 1750 RPM | | | | AB Max., AB Máx. | C Max., C Máx. | P Max., P Máx. | Wt. (lbs.), Peso (libras) |
|-----------------------------------|-------------------|---------------|------------------|---------------|-------------------|----------|------------------|-------------|---------------------|-------------------|-------------------|------------------------------|
| | 1 PH, Monofásicos | | 3 PH, Trifásicos | | 1 PH, Monofásicos | | 3 PH, Trifásicos | | | | | |
| | ODP | TEFC | ODP | TEFC | ODP | TEFC | ODP | TEFC | | | | |
| 143T | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 3/4, 1, 1 1/2 | 1/2, 3/4 | 1/2, 3/4 | 1/2, 3/4, 1 | 1/2, 3/4, 1 | 5 1/4 | 14 | 6 7/8 | 45 |
| 145T | 2 | 2 | 2,3 | 2,3 | 1 | 1 | 2 | 2 | 5 1/4 | 14 1/4 | 6 7/8 | 53 |
| 182T | 3 | 3 | 5 | 3 | 2 | 2,3 | 3 | 3 | 6 3/8 | 16 5/8 | 7 7/8 | 74 |
| 184T | 5 | 3, 5 | 7 1/2 | 5 | 3 | - | 5 | 5 | 6 3/8 | 18 5/8 | 7 7/8 | 95 |
| 213T | 7 1/2 | - | 10 | 7 1/2 | 5 | - | 7 1/2 | 7 1/2 | 8 1/2 | 20 | 9 5/8 | 116 |
| 215T | 10 | - | 15 | 10, 15 | - | - | 10 | 10 | 8 1/2 | 20 | 9 5/8 | 136 |

NOTES:

- Pumps will be shipped with top vertical discharge as standard. For other orientations, remove casing bolts, rotate to desired position, replace and tighten bolts to 37 lb. - ft.
- Dimensions are in inches.
- Motor dimensions may vary with motor manufacturer.
- Not to be used for construction purposes.

NOTAS:

- Las bombas se transportarán con la descarga vertical superior como estándar. Para otras orientaciones, retirar los tornillos de la carcasa, rotar a la posición deseada, reemplazar y apretar los tornillos a 37 libras - pies.
- Las dimensiones son en pulgadas.
- Las dimensiones del motor pueden que varíen con los fabricantes.
- No debe usarse para propósitos de construcción.



Commercial Water

SPECIFICATIONS, *ESPECIFICACIONES*

Capacities to:

900 GPM (204 m³/hr) at 3500 RPM

Heads to:

65 feet THD (19.8 m) at 3500 RPM

Working pressure to:

175 PSIG (12 bars)

Maximum suction pressure to:

100 PSIG (9 bars)

Maximum temperature to:

212°F (100°C) with standard seal or
250°F (121°C) with optional seal

Motor:

NEMA standard JM frame for 3656LH or T-frame for 3756LH. Open dripproof, totally enclosed fan cooled and explosion proof enclosures available.

Single phase (115/230 V) and Three phase (208 – 230/460 V) versions are available. Horsepowers are 1/2 at 1750 RPM and 3/4 – 5 HP at 3500 RPM.

Capacidades:

900 GPM (204 m³/hr) a 3500 RPM

Cargas:

65 pies THD (19.8 m) a 3500 RPM

Presión de trabajo a:

175 PSIG (12 baras)

Presión máxima de succión a:

100 PSIG (9 baras)

Temperatura máxima:

212°F (100°C) con sello estándar o
250°F (121°C) con sello opcional

Motor:

Armazón JM estándar NEMA para 3656LH o armazón T para 3756LH. A prueba de goteo, ventilador totalmente encerrado y recintos a prueba de explosión disponibles.

Las versiones para Monofásicos (115/230 V) y Trifásicos (208-230/460 V) están disponibles. Las fuerzas son 1/2 HP a 1750 RPM y 3/4 – 5HP a 3500 RPM.

TYPICAL APPLICATIONS, *APLICACIONES TÍPICAS*

- Evaporative condensers
- Industrial fluid coolers
- Refrigeration and air conditioning systems
- Water circulation
- Liquid transfer
- Irrigation
- Condensadores de goteo
- Enfriadores industriales de líquidos
- Sistemas de refrigeración y aire acondicionado
- Circulación de agua
- Transferencia de líquidos
- Irrigación

NOTES, NOTAS

NOTES, NOTAS

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