

4600 HORIZONTAL SPLIT CASE PUMP | 200-450 | SUBMITTAL

File No: 46.572IEC
Date: MARCH 10, 2023
Supersedes: 46.572L
Date: JANUARY 22, 2010

Job: _____ Representative: _____

_____ Ordered by: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

_____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____

Capacity: _____ m³/h (USgpm) Head: _____ m(ft)

Liquid: _____ Viscosity: _____

Temperature: _____ °C (°F) Specific gravity: _____

Suction: 300 mm (12") Discharge: 200 mm (8")

MOTOR DESIGN DATA

kW: _____ RPM: _____

Frame size: _____ Enclosure: _____

Volts: _____ Hertz: 50 Hz Phase: 3

Efficiency: NEMA premium 12.12 Other _____ %

MATERIALS OF CONSTRUCTION

| FLANGE RATING | PN 16 | PN 25 |
|---------------------|-----------------------------|---------------------------------|
| Construction | <input type="checkbox"/> BF | <input type="checkbox"/> BF 250 |
| Flush line | Copper | Steel |

- Casing:** Cast iron
- Impeller:** Bronze
- Wear rings:** Bronze
- Anti-friction bearings:** Permanently lubricated
- Shaft:** Carbon steel
- Shaft sleeve:** Bronze
- Gasket:** Velotherm (Fiber)

MAXIMUM PUMP OPERATING CONDITIONS

- PN 16**
- 16 bars at 49°C (232 psig at 120°F)
 - 7 bars at 150°C (100 psig at 300°F)
- PN 25**
- 25 bars at 65°C (362 psig at 149°F)
 - 21 bars at 150°C (304 psig at 300°F)
- Tolerance of ±3 mm (±0.125") should be used
 - For exact installation, data please write factory for certified dimensions
 - Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports.
 - See performance curves on page 3

MECHANICAL SEAL DATA

| ANSI FLANGE RATING | ANSI 125 | ANSI 250 |
|------------------------|-----------------|-----------|
| Seal type | A21 | ARO |
| Stationary seat | Silicon carbide | Carbon |
| Rotating face | Carbon | Durchrome |
| Secondary seal | EPDM | Viton |

- Spring:** Stainless steel
- Rotating hardware:** Stainless steel
- Gland plate:** Bronze

OPTIONAL EQUIPMENT

SUCTION SIDE REQUIREMENT

- Important (please select)**
- Viewed from motor end
- Right hand (illustrated) Left hand

| MOTOR | kW @ RPM | | DIMENSIONS mm (inches) | | | | | | | | | WEIGHT* | |
|-------|--------------|-------------|------------------------|----------------|------------------|-----------------|----------------|----------------|-----------------|---------------|-----------------|------------------|------------------|
| | 1500 | | 1000 | HA | HB | HC (MAX) | HD | HE | HF | HG | HM | kgs (lbs) | |
| | ODP | TEFC | | | | | | | | | | ODP | TEFC |
| 200L | — | — | 22 | 813 (32.00) | 2032 (80.00) | 1773 (69.79) | 445 (17.50) | 737 (29.00) | 965 (38.00) | 152 (6.00) | 959 (37.75) | 1380.3 (3043) | 1475.6 (3253) |
| 225M | — | — | 30 | 813 (32.00) | 2032 (80.00) | 1830 (72.04) | 445 (17.50) | 737 (29.00) | 965 (38.00) | 152 (6.00) | 984 (38.75) | 1454.2 (3206) | 1526.8 (3366) |
| 250M | — | — | 37 | 813 (32.00) | 2032 (80.00) | 1830 (72.04) | 445 (17.50) | 737 (29.00) | 965 (38.00) | 152 (6.00) | 984 (38.75) | 1463.3 (3226) | 1581.2 (3486) |
| 280S | — | — | 45 | 813 (32.00) | 2540 (100.00) | 1941 (76.41) | 445 (17.50) | 737 (29.00) | 1219 (48.00) | 152 (6.00) | 997 (39.25) | 1609.4 (3548) | 1768.1 (3898) |
| 280M | 90 | — | 55 | 813 (32.00) | 2540 (100.00) | 1941 (76.41) | 445 (17.50) | 737 (29.00) | 1219 (48.00) | 152 (6.00) | 997 (39.25) | 1632.1 (3598) | 1813.5 (3998) |
| 315 | 110 - 185 | 90 - 185 | — | 813 (32.00) | 2540 (100.00) | 2476 (97.48) | 445 (17.50) | 737 (29.00) | 1219 (48.00) | 152 (6.00) | 1035 (40.75) | 2302.9 (5077) | 2620.4 (5777) |

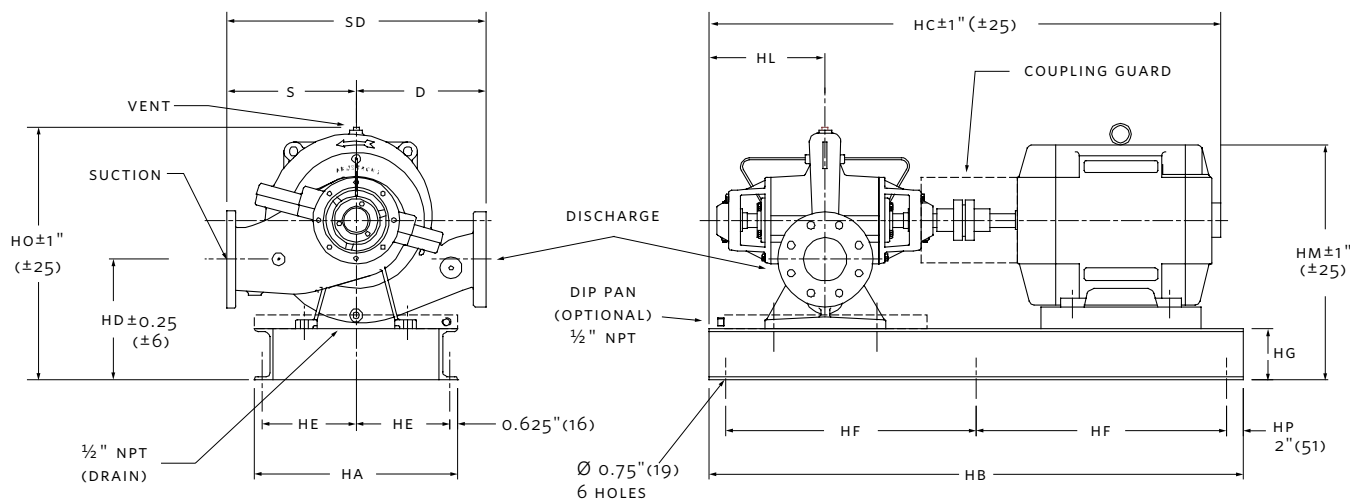
PUMP DIMENSIONS

mm (inches)

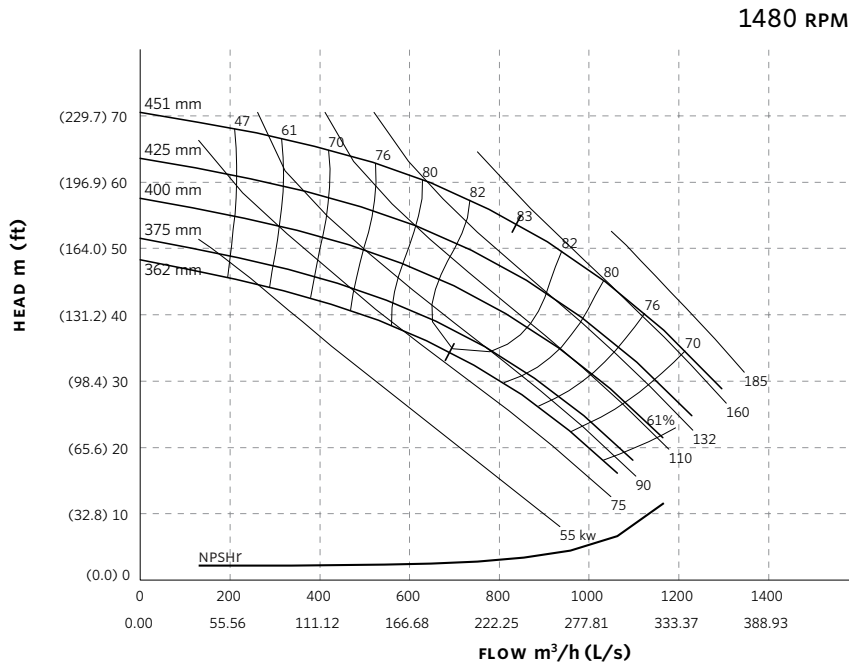
| HL | HO | S | D |
|-------------|--------------|-------------|-------------|
| 491 (19.35) | 1143 (45.00) | 533 (21.00) | 457 (18.00) |

All dimensions are in mm (inches) and weights in kg (lbs)

*Assembly weight combines pump and motor.



4600 PERFORMANCE CURVES



Curve number
PT594-0-0-1480

Series
4600

Size
200-450

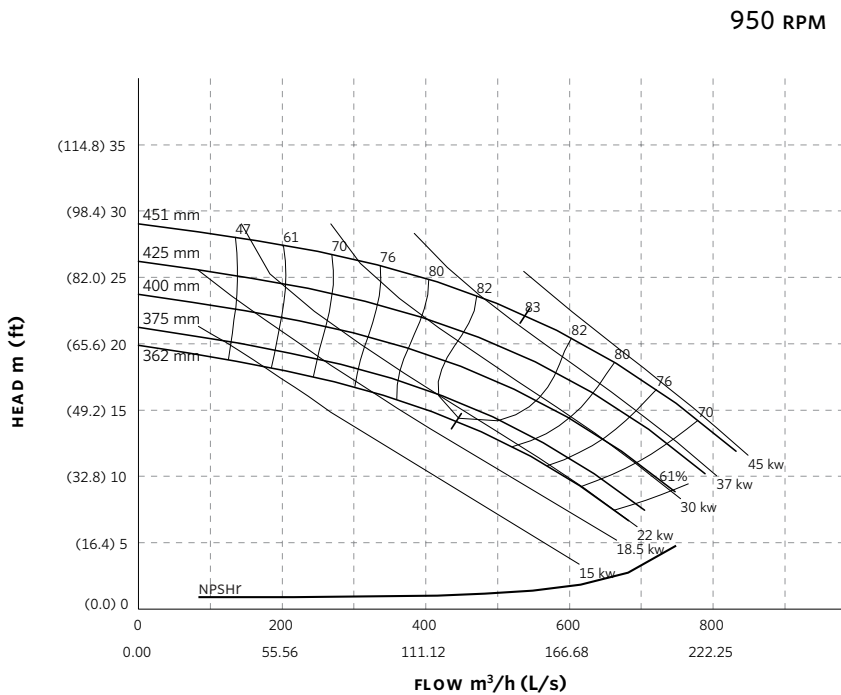
RPM
1480

kwa based on shown
Fluid's sp. gr.

Availability
4600 all ratings

Performance
guaranteed only
at operating point
indicated

Curve shown for
clear, cold water
- SP. GR. 1.000



Curve number
PT594-0-0-950

Series
4600

Size
200-450

RPM
950

kwa based on shown
Fluid's sp. gr.

Availability
4600 all ratings

Performance
guaranteed only
at operating point
indicated

Curve shown for
clear, cold water
- SP. GR. 1.000

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