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Close-Coupled Centrifugal Pumps

FEATURES

Compact Design: Close coupled, space saving design provides easy installation. Flexible couplings and bedplates not required.

Mounting: Can be mounted in vertical or horizontal position.

Construction: Available in bronze fitted (BF), all iron (AI), or all bronze (AB). Bronze fitted means bronze impeller.

Impeller: Enclosed design for high efficiencies. Threaded directly on motor shaft. Stainless steel locknut on three phase models requires no clearance adjustments. Balanced for smooth operation.

Casing: Volute type, cast iron or brass construction. Back pullout design. Discharge can be rotated in eight positions. Vertical discharge standard. Tapped openings provided for priming, venting and draining.

Mechanical Seal: Standard carbon/ ceramic faces, BUNA elastomers, 300 series stainless steel components. Option seals available.

Motor: Close-coupled design. Ball bearings carry all radial/axial thrust loads. Designed for continuous operation. All ratings are within working limits of the motor.



Commercial Water

APPLICATIONS

Specifically designed for the following uses:

- Water circulation
- Booster service
- Liquid transfer
- Spraying systems
- Jockey pump service
- General purpose pumping

SPECIFICATIONS

Pump

- Capacities: to 110 GPM
- Heads: to 118 feet
- Pipe connections:

| Model | Suction | Discharge |
|-------------|---------|-----------|
| 1 x 1¼ - 5 | 1¼" NPT | 1" NPT |
| 1¼ x 1½ - 5 | 1½" NPT | 1¼" NPT |

- Maximum working pressure: 125 PSI
- Temperature: standard seal, 212° F (100° C) maximum or 250° F (121° C) with optional high temperature seal.
- Rotation: right hand i.e.; clockwise when viewed from motor end.

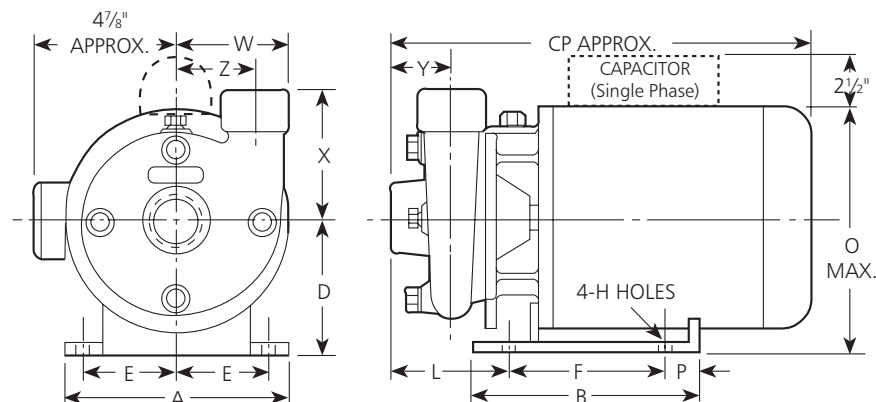
Motor

- NEMA standard
- Open drip proof, TEFC, or (explosion proof three phase only) enclosures.
- 60 Hz, 3500 RPM
- Stainless steel shaft
- Single phase: ½-2 HP ODP or TEFC. Built-in overload with automatic reset.
- Three phase: ½ - 2 HP: ODP, 208-230/460 V
½ - 2 HP: TEFC, 208-230/460 V
½ - 2 HP: expl. proof, 230/460 V
- Overload protection must be provided in starter unit. Starter and heaters (3) must be ordered separately.

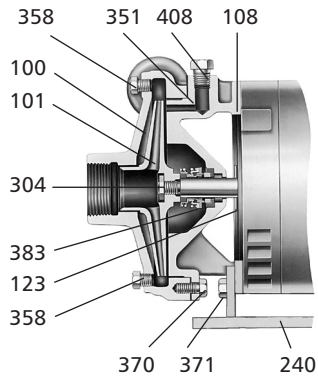
DIMENSIONS AND WEIGHTS

| Pump | A | B | D | E | F | H | L | O | P | W | X | Y | Z | CP | Motor Frame | Wt. (lbs.) |
|---------|----|----|----|---------------------------------|---|--------------------------------|-------------------------------|-------------------------------|--------------------------------|---|-------------------------------|--------------------------------|---------------------------------|-----|-------------|------------|
| 1x1¼-5 | 6¾ | 5⅞ | 4⅞ | 2 ¹⁵ / ₁₆ | 5 | 1 ³ / ₃₂ | 3 ⁵ / ₈ | 7 | 7 ¹ / ₁₆ | 4 | 4 ¹ / ₈ | 2 ³ / ₁₆ | 3 ¹ / ₁₆ | 13½ | 48 | 55 |
| 1¼x1½-5 | | | | | | | 3 ⁷ / ₈ | 7 ³ / ₈ | | | 4 | 2 ¹ / ₄ | 2 ¹⁵ / ₁₆ | 15¾ | 56 | 67 |

(All dimensions are in inches and weights in lbs. Do not use for construction purposes.)



Commercial Water



MOTOR FRAME

| Motor Frame | Single Phase | | Three Phase | |
|-------------|--------------|---------|-------------|-----------|
| | ODP | TEFC | ODP | TEFC/EXPL |
| 48 | 1/3 | — | — | — |
| 56 | 1/2 – 2 | 1/2 – 2 | 1/3 – 2 | 1/2 – 2 |

MATERIALS OF CONSTRUCTION

| Material Code | Engineering Standard |
|---------------|------------------------------------|
| 1001 | Cast iron ASTM A48 CL 20 |
| 1101 | Bronze ASTM B584, C87500 Lead-Free |

COMPONENTS

| Item No. | Description | Material Code | | |
|----------|-------------------------------------|--------------------|----------|------------|
| | | Bronze Fitted | All Iron | All Bronze |
| 100 | Casing | 1001 | 1001 | 1101 |
| 101 | Impeller | 1101 | 1001 | 1101 |
| 108 | Adapter | 1001 | 1001 | 1101 |
| 123 | Water deflector | Rubber or Micarta® | | |
| 240 | Motor Support | Steel | | |
| | Rubber Channel | Rubber | | |
| 304 | Impeller nut* | Stainless steel | | |
| 351 | Gasket-casing | Composite | | |
| 358 | Pipe plug 1/4" vent and drain | Brass | Steel | Brass |
| 370 | Hex head cap screw adapter to case | Zinc-Plated Steel | | |
| 371 | Hex head cap screw adapter to motor | Zinc-Plated Steel | | |
| 408 | Prime plug – priming 1/4" NPT | Brass | Steel | Brass |

* Impeller nut furnished on three phase units only.

| **Optional Mechanical Seal Item 383 | | | | | | | |
|-------------------------------------|----------|--------------------------|--------|--------------|-----------|-------------|-----------|
| Suffix | Part No. | Service | Rotary | Stationary | Elastomer | Metal Parts | Seal Type |
| Blank | 10K10 | Standard Duty | Carbon | Ceramic | BUNA | 316 SS | 6 |
| N | 10K6 | Fluct. Temp up to 212° F | | Ni-Resist | | 18-8 SS | |
| O | 10K18 | Hot Water up to 250° F | | Sil.-Carbide | EPR | 316 SS | 21 |
| V | 10K55 | Mild Chemical | | Sil.-Carbide | Viton | | |

NOTE: To order an optional mechanical seal, add appropriate suffix to order number. "N" for 10K6; "O" for 10K18; and "V" for 10K55. 10K55 replaces 10K24. The 10K55 has a higher pressure rating than other seals offered.



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