



oberdorfer[®]

An Ingersoll Rand Business



Model 300B

Bronze Self-Priming Centrifugal Pump



OB300B - Bronze with stainless steel shaft, Single Phase

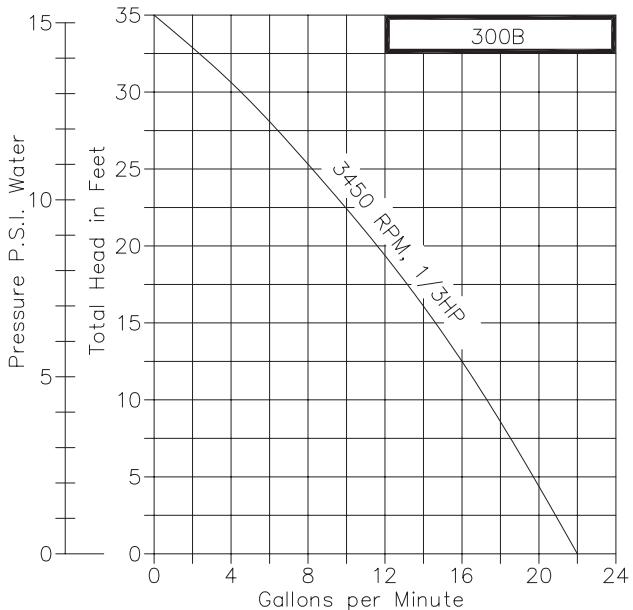
OB300B-01 - Bronze with Monel shaft, Single Phase

Features

- Pipe Size: 1" NPT
- Self-Priming to 20 feet Suction Lift
- Rugged Bronze Construction
- Ideal for marine service (air conditioning, bilge, and sea water recirculating)
- O-Ring Housing seal eliminates gasket problems
- Auxiliary Connections - for convenient priming and draining
- Multiple Mechanical Shaft Seal Options for various applications
- Pump Heads mount to Standard Footed Nema 56J Jet Pump Motors
 - Shafts : 416 Stainless, Monel, or 316
 - Passivated Stainless
 - Multiple motor options including Explosion Proof
- For Pedestal Style, see 30PB
- Optional Lifting Handle

Performance

Capacity Water at 60°F



Up to 22 gallons per minute water flow and suction lift of 15 feet without a foot or check valve (25 foot suction lift using a foot or check valve and a filled inlet line). A 1/2" pipe plug on the tank top is for initial filling of priming chamber and inlet line-pump priming is automatic thereafter. Pump seal is mechanical carbon face type mated to ceramic wear face for maximum durability. Other seal components are made of NBR with low swell characteristics for compatibility with a wide range of liquids including many chemicals and solvents. These pump models are widely used for the pumping of Perchloroethylene. Must be operated in the horizontal position (As shown in picture).

Seal Options

Note: Seal and shaft modifications below are not physically interchangeable. See parts table (rear).

FKM A Solvent Mechanical Seal: Mechanical seal for oils, fuels, lubricants, most mineral acids, and many solvents that attack other rubbers such as Carbon Tetrachloride, toluene, benzene, and xylene.

PTFE Mechanical Seal: For virtually all industrial chemicals, corrosives and solvents - as limited by compatibility of basic pump metal of construction.





© OBERDORFER

An Ingersoll Rand Business

Capacity - Water at 60°F

| Pump Head | Seal Style | Seal Materials | | | | | Typical Applications |
|------------|------------|-----------------|------------------|------|-----------------|------|--|
| | | Head | | | Seat | | |
| | | Type | Face | Case | Elastomer | Face | Elastomer |
| OB300B-06 | 16 or 2100 | Silicon Carbide | Passivated 316SS | NBR | Silicon Carbide | NBR | Ocean water with fine abrasives |
| OB300B | 6A | Carbon | Passivated 316SS | NBR | Ceramic | NBR | Non-potable fresh water, salt water, ethylene glycol |
| OB300BS-10 | 6A | Carbon | 18-8 SS | FKM | Ceramic | FKM | Solvents* |
| OB300BS-11 | 9A | Carbon | 18-8 SS | PTFE | Ceramic | FKM | Industrial Chemicals* |

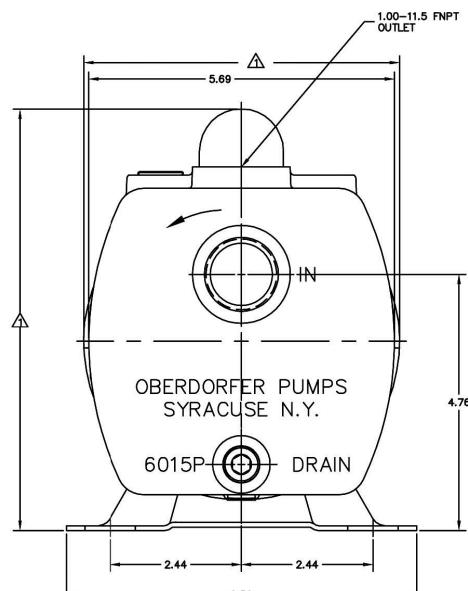
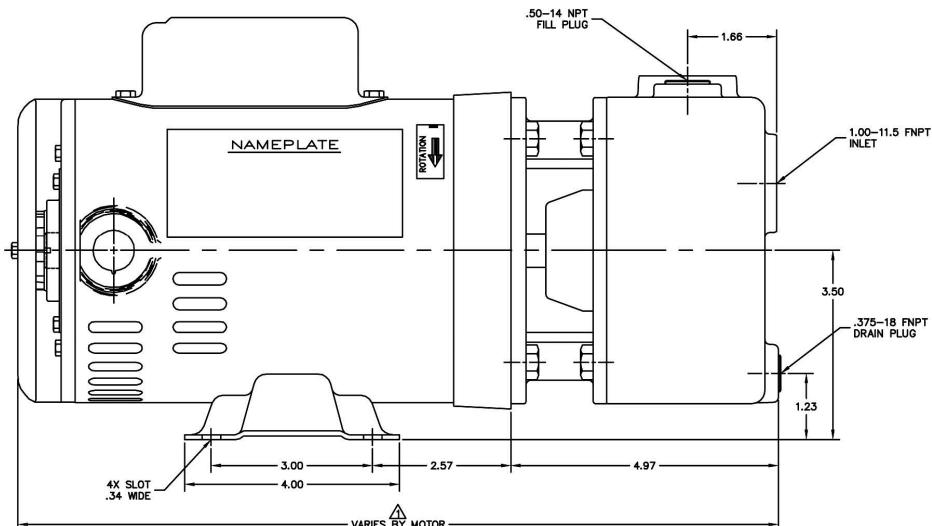
Notes: *Fluids compatibility suitable for use with bronze

| Discharge Pressure | | 3450 RPM Suction Lift | | | | | |
|--------------------|------------|-----------------------|-------|--------|--------|--------|--|
| Feet | Equiv. PSI | 0 ft. | 5 ft. | 10 ft. | 15 ft. | 20 ft. | |
| 0 | 0.0 | 22 | 20 | 17 | 14 | 10 | |
| 5 | 2.2 | 20 | 17 | 14 | 10 | 5 | |
| 10 | 4.3 | 17 | 14 | 10 | 5 | | |
| 15 | 6.5 | 14 | 0 | 5 | | | |
| 20 | 8.7 | 10 | 5 | | | | |
| 25 | 10.8 | 5 | | | | | |
| 30 | 13.0 | 3 | | | | | |
| 35 | 15.2 | 1 | | | | | |

Dimensions

DIMENSIONS

△ DIMENSIONS VARY BY MOTOR.



| Pump No. | HP | SF | Enclosure | Phase | Voltage | Shaft Construction | Motor P/N (Item 12) |
|--------------|-----|------|-----------|--------|-------------|--------------------|---------------------|
| OB300B-F13 | 1/3 | 1.75 | ODP | Single | 115 | 416 SST | OB5859 |
| OB300B-01F26 | 1/3 | 1.75 | ODP | Single | 115/230 | Monel | OB32273 |
| OB300B-F17 | 1/3 | 1.75 | ODP | Single | 115/230 | 316 Passivated | OB3032 |
| OB300B-F21 | 1/3 | 1.75 | XP | Single | 115/230 | 416 SST | OB8214 |
| OB300BP01F65 | 1/3 | 1.75 | ODP | Three | 208-230/460 | Monel | OB32355 |
| OB300BP-F57 | 1/3 | 1.75 | ODP | Three | 208-230/460 | 416 SST | OB6996 |
| OB300B-J20 | 1/2 | 1.65 | TEFC | Single | 115/230 | 416 SST | OB7976 |
| OB300B-01J26 | 1/2 | 1.65 | ODP | Single | 115/230 | Monel | OB32332 |
| OB300B-J24 | 1/2 | 1.65 | ODP | Single | 115/230 | 316 Passivated | OB3031 |
| OB300B-J89 | 1/2 | 1 | TENV | DC | 12V | 416 SST | OB2386 |
| OB300BP-M58 | 3/4 | 1.15 | TEFC | Three | 230/460 | 416 SST | OB7967 |

Ingersoll Rand

12500 South Pulaski Road
Alsip, IL 60803, USA
Phone (800) 448.1668

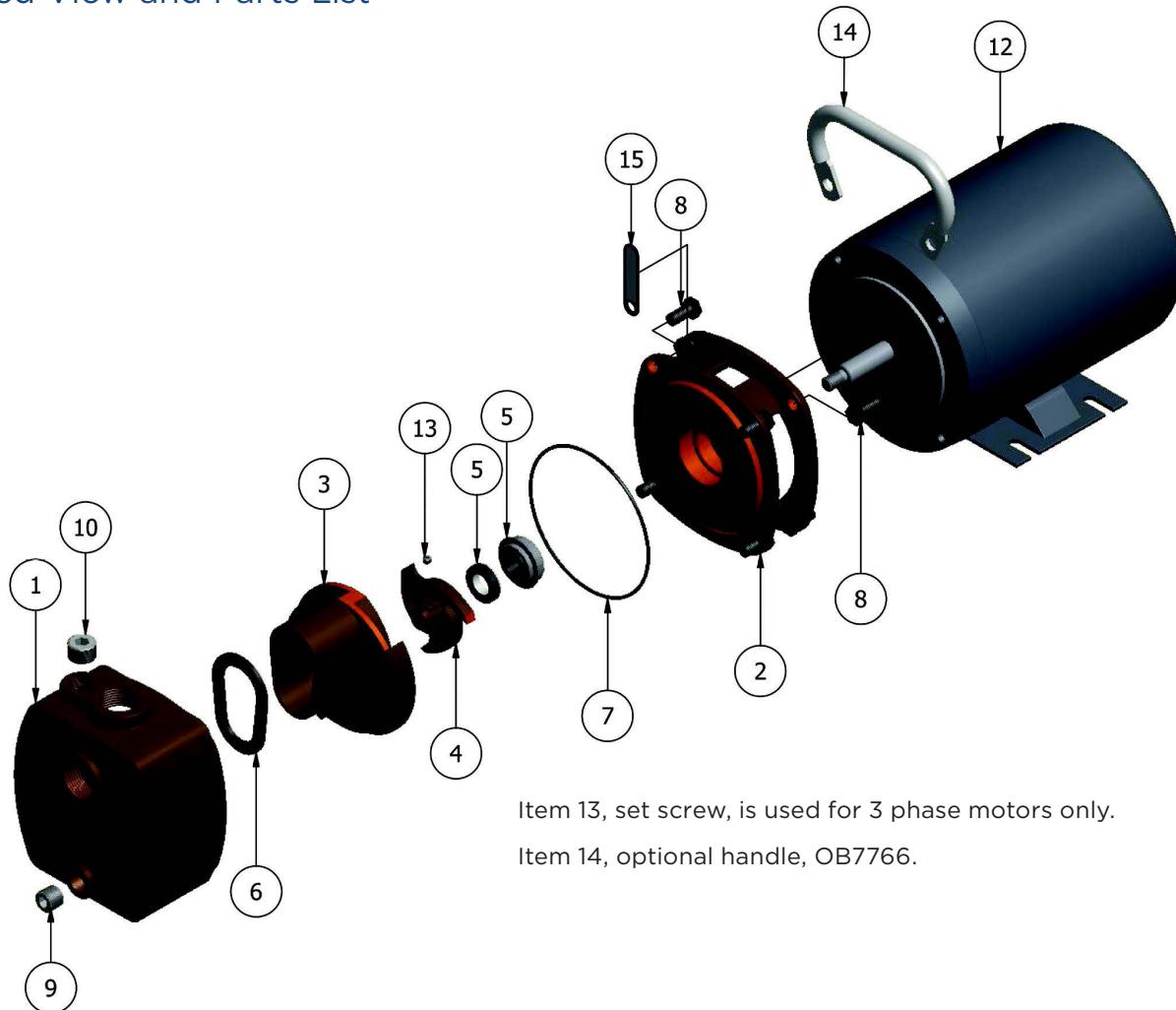


OBERDORFER®

An Ingersoll Rand Business



Exploded View and Parts List



Item 13, set screw, is used for 3 phase motors only.

Item 14, optional handle, OB7766.

| Pump No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | *11 | 12 | 13 | 14 | 15 | Repair Kit |
|------------|---------|---------|----------|----------|--------------------|-----------------|-------------|---------|---------|---------|--------------------|---------|-----------|---------------------------|-----------|----------------|
| | Body | Adapter | Diffuser | Impeller | Seal As- sembly | Diffuser Gasket | O-Ring | Screw | Plug | Plug | Shim | Motor | Set Screw | Handle (Optio- nal) | Nameplate | |
| OB300B | 1 Req'd | 1 Req'd | 1 Req'd | 1 Req'd | 1 Req'd | 1 Req'd | 1 Req'd | 8 Req'd | 1 Req'd | 1 Req'd | Varies | 1 Req'd | 1 Req'd | 1 Req'd | 1 Req'd | OB7783 OB10865 |
| OB300B-06 | OB7190 | OB7191 | OB7192 | OB7193 | OB32155 | OB6021-09 | OB9797-157 | OB5411 | OB7321S | OB7443S | OB602501, 02 or 03 | NA | | | | OB7783 OB10867 |
| OB300BP | OB7190 | OB7191 | OB7192 | OB7200 | OB32155 | OB6021-09 | OB9797-157 | OB5411 | OB7321S | OB7443S | OB602501, 02 or 03 | OB9849 | OB7766 | OB7783 OB10866 | | |
| OB300BS-10 | OB7190 | OB7191 | OB7192 | OB7193 | OB32210 | OB2271 | OB9797-157 | OB5411 | OB7321S | OB7443S | OB602501, 02 or 03 | NA | | OB7783 OB11290 | | |
| OB300BS-11 | OB7190 | OB7314 | OB7192 | OB7193 | OB32211 | OB2271 | OB9355-157S | OB5411 | OB7321S | OB7443S | OB602501, 02 or 03 | NA | | OB7783 OB11604 | | |

* Repair kit contains items 4, 5, 6, 7, 11 & 13

*Item 11 is not depicted above

Ingersoll Rand

12500 South Pulaski Road
Alsip, IL 60803, USA
Phone (800) 448.1668