Process Industrial Pumps

7071 Series
ANSI Standard Dimension
Process Industrial Pumps

- Capacities to 6000 gpm
- Heads to 750 feet
- Temperatures to 500°F (250°C)
- Pressures to 300 PSIG

Performance Features For General Service

Pump Reliability
- Heavy Duty Construction
- Foot-mounted Casing
- Centerline Intake and Discharge

Ease of Maintenance
- Back Pull-out Design
- Maximum Interchangeability
- Cartridge Seals Available

Simple Installation
- ANSI 16.5 Standard Flanges
- ANSI 73.1 Style Casing

For process industrial services, the 7071 Series is a perfect, reliable, and economical solution. The 7071 Series is also easy to operate and maintain with the added benefit of substantially reduced maintenance costs.

Services
- Food Processing
- Chemical
- Oil
- Textile
- Filtration
- Liquid Transfer
- Pulp and Paper
- Pharmaceutical
- Paint Systems
- and many more...

Custom Design
- Design and Manufacture to your Application Needs

ANSI Standard Dimension
7071 Series Options

**Finned Cooler**
For high temperature applications.

**Jacketed Stuffing Box**
For high temperature applications. Back pull-out design for ease of maintenance.

**Standard Bore Stuffing Box**
Accommodates many of today’s seal sizes and styles such as cartridges, component and packing.

**Repeller**
When seals are not effective, Gusher provides repeller style sealing for abrasive applications.

**Base Plates**
Gusher has a variety of base plates for your specific requirements.

**Safety Coupling Guards**
Gusher provides guards around rotating parts to meet plant safety requirements.

**In-Line Adapter**
Convert your centerline close-coupled pump to an in-line.

Base plates are also supplied with jack bolts to aid in alignment.
Design Features:

1. **Heavy Duty Casings**—increases life under corrosive and erosive conditions. All sizes are self venting with CL discharge. Drain plug offered as option.

2. **Heavy Duty Shaft**—Minimum deflection increases life for less maintenance.

3. **Renewable Shaft Sleeve**—Hook-type sleeve eases maintenance (easily removed) and is relieved to allow for changes in temperature.

4. **Power Frame**—Heavy duty Power Frame is sealed against contaminants to ensure long bearing life. Water-cooled for high temperature applications.

5. **Oil Lubrication**—Oil lubrication is standard. The power frame is vented. Oil may also be cooled for high temperature application.

6. **Heavy Duty Thrust Bearing**—Double row thrust bearing minimizes shaft end play for more effective stuffing box sealing, longer mechanical seal life and withstands greater axial and radial thrust loads.

7. **External Impeller Adjustment**—Like new clearance can be maintained through simple external adjustment in just minutes to maintain original high efficiencies.

8. **Rabbeted Fits**—Accurately machined rabbets ensure positive alignment, longer seal life, easy replacement of spare rotating when maintenance is required.

9. **Contained Casing Gasket**—Protects against blow out.

10. **Positive Sealing at Impeller**—Teflon O-ring protects shaft from liquid being pumped.

11. **Semi Open Impeller**—is designed with back pump-out vane to minimize axial thrust. Designed to handle solids and stringy material.*

12. **Mechanical Seal**

13. **Seal Gland**

*The 3x4-16 and the 5x6-16 have enclosed impellers.
### 7071S Series W/67220 Base

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge</th>
<th>Intake</th>
<th>Shaft Dia.</th>
<th>Keyway</th>
<th>Weight</th>
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7071M Series W/67220 Base

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*No ANSI designation available  **Suction flange has 8.75-1 UNC tapped holes  *Pump with 8 1/2" D dimension  **Pump with 10" D dimension
### 7071L Series w/67220 Base

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<thead>
<tr>
<th>Model</th>
<th>Discharge</th>
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*No ANSI designation available*
### 7071L Series W/67220 Base

![Diagram of 7071L Series Pump]

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*No ANSI designation available*
7071 CL 1.5x3-6SE 1765 rpm

7071 CL 1.5x3-6SE 3480 rpm
Pump Selection Curves

7071S CL 2x3-6SE 1765 rpm

Pumps over 150 psi consult factory.

7071S CL 2x3-6SE 3480 rpm

Pumps over 150 psi consult factory.
Pump Selection Curves

7071S CL 1.5x3-8SE 1765rpm

7071S CL 1.5x3-8SE 3480 rpm
Pump Selection Curves

7071M CL  3x4-7SE 1765 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 1800
Pumps over 150 psi consult factory.

7071M CL 2x3-8SE 1765 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 1800
Pumps over 150 psi consult factory.
Pump Selection Curves

7071M CL 3x4-8BSE 1765 rpm

GUSB
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 1800

7071M CL 3x4-8BSE 3400 rpm

GUSB
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 3600
Pump Selection Curves

7071M CL 5x6-9SE 1765 rpm

7071M CL 1x2-10SE 1765 rpm
Pump Selection Curves

7071M CL 1x2-10SE 3480 rpm

7071M CL 1.5x3-10SE 1765 rpm

Pumps over 150 psi consult factory.
Pump Selection Curves

7071M CL 2x3-10SE 3480 rpm

7071M CL 3x4-10SE 1765 rpm
Pump Selection Curves

7071M CL 3x4-10SE 3480 rpm

7071M CL 3x4-10BSE 1765 rpm
Pump Selection Curves

7071M CL 4x6-10SE 1765 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 1800

7071M CL 4x6-10BSE 1765 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 1800
Pump Selection Curves

7071M CL 6x8-11SE 1765 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 1800

7071M CL 1.5x3-13SE 1765 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 1800
Pump Selection Curves

7071M CL 1.5x3-13SE 3480 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 3600

Pumps over 150 psi consult factory.

---

7071M CL 1.5x3-13SE 3480 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 3600

Pumps over 150 psi consult factory.
Pump Selection Curves

7071M CL 3x4-13SE 3480 rpm (10in. Impeller max.)

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
Size: CL 3x4-13SE
Speed: 3480 rpm
Dia 13 in

7071M CL 4x6-13SE 1765 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
Size: CL 4x6-13SE
Speed: 1765 rpm
Dia 13 in
Pump Selection Curves

7071L CL 6x8-15SE 1765 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
Size: CL 6x8-15SE
Speed: 1765 rpm
Dia: 15 in

Design Point: 1625 US gpm, 85 ft
Pumps over 150 psi consult factory.

7071L CL 8x10-15SE 1170 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
Size: CL 8x10-15SE
Speed: 1170 rpm
Dia: 15 in

Design Point: 1625 US gpm, 85 ft
Pumps over 150 psi consult factory.
Pump Selection Curves

7071L CL 8x10-15BSE 1765 rpm

7071L CL 3x4-16SE 1765 rpm
Pump Selection Curves

7071L CL 5x6-16SE 1765 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 1800

Pumps over 150 psi consult factory.

7071L CL 4x6-17E 1780 rpm

GUSHER
Catalog: Gusher Pump Catalog 60Hz, Vers 2.0
HOR7071 - 1800
7071L CL 6x8-17E 1780 rpm

Pumps over 150 psi consult factory.

7071L CL 8x10-17SE 1765 rpm

Pumps over 150 psi consult factory.
Ordering Information

Order the Gusher 7071 Series Pump to meet your needs by model number. The model number should be specified as follows:

```
EXAMPLE: For ordering a coupled base-mounted pump with a 1" discharge and a 1 1/2" diameter suction, with impeller of 6" maximum, and ductile iron construction, the model number would be:
PCL-1 x 1 1/2-6AA-CBM-A
```

**Standard Materials of Construction**

<table>
<thead>
<tr>
<th>Material Designation</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>All Ductile</td>
<td>Ductile Iron Construction</td>
</tr>
<tr>
<td>B</td>
<td>Stainless Steel</td>
<td>316 Stainless Steel Wetted Parts</td>
</tr>
<tr>
<td>C</td>
<td>Stainless Steel Fitted</td>
<td>316 Stainless Steel Shaft and Impeller</td>
</tr>
</tbody>
</table>

**Other Materials are Available**

<table>
<thead>
<tr>
<th>Material Designation</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD4</td>
<td>All CD4M construction</td>
</tr>
<tr>
<td>A20</td>
<td>All Alloy 20 construction</td>
</tr>
<tr>
<td>M</td>
<td>All Monel construction</td>
</tr>
<tr>
<td>H</td>
<td>Hast B or C construction, specify</td>
</tr>
</tbody>
</table>

**Motor Specifications**

Please furnish the following information on all orders: Horsepower, Frame Size, Voltage, RPM, Hertz and Phase. If a special motor is required, specify.

The **Base-Mounted Pump** is designed to accept a NEMA Frame Foot-Mounted Motor.

**Note:** If motor is ordered, it will be factory mounted unless otherwise specified.

**We Can Help**

Our engineering department will help you select the proper pump for your application. Call, write or email. Performance Curves are available on all pumps.

**Call about our Quick Ship Program.**

**Gusher Pumps**

115 Industrial Drive  
Williamstown, KY 41097  
**Phone:** 859.824.3100  
**Fax:** 859.824.7248  
**Web:** www.Gusher.com
Ruthman Companies was co-founded in 1912 by brothers Alois and Edward Ruthman as the “Ruthman Machinery Company.” Based in Cincinnati, the company serviced the steamboats that traveled the Ohio River.

In 1924, Alois conceived the first sealless centrifugal pump, coining the term ‘coolant pump.’ The brothers named this new pump “Gusher,” giving birth to what is now Ruthman Companies’ flagship brand, Gusher Pumps.

Alois’ son Thomas R. Ruthman joined the family business in 1949, growing the business globally through organic growth and the acquisition of complementary technologies. In the early 1990’s, Alois’ grandson, Thomas G. Ruthman, became the third generation of Ruthmans in the pump business. Over the years, Ruthman Companies has expanded its product line from the original centrifugal coolant pumps to include valves, vertical turbine pumps, positive displacement pumps, gear pumps, and other specialized pump equipment, while upholding its reputation as a leader in the custom engineering of pumps for the most challenging applications.