



# 7071 Series ANSI Pumps



## Product Selection Guide



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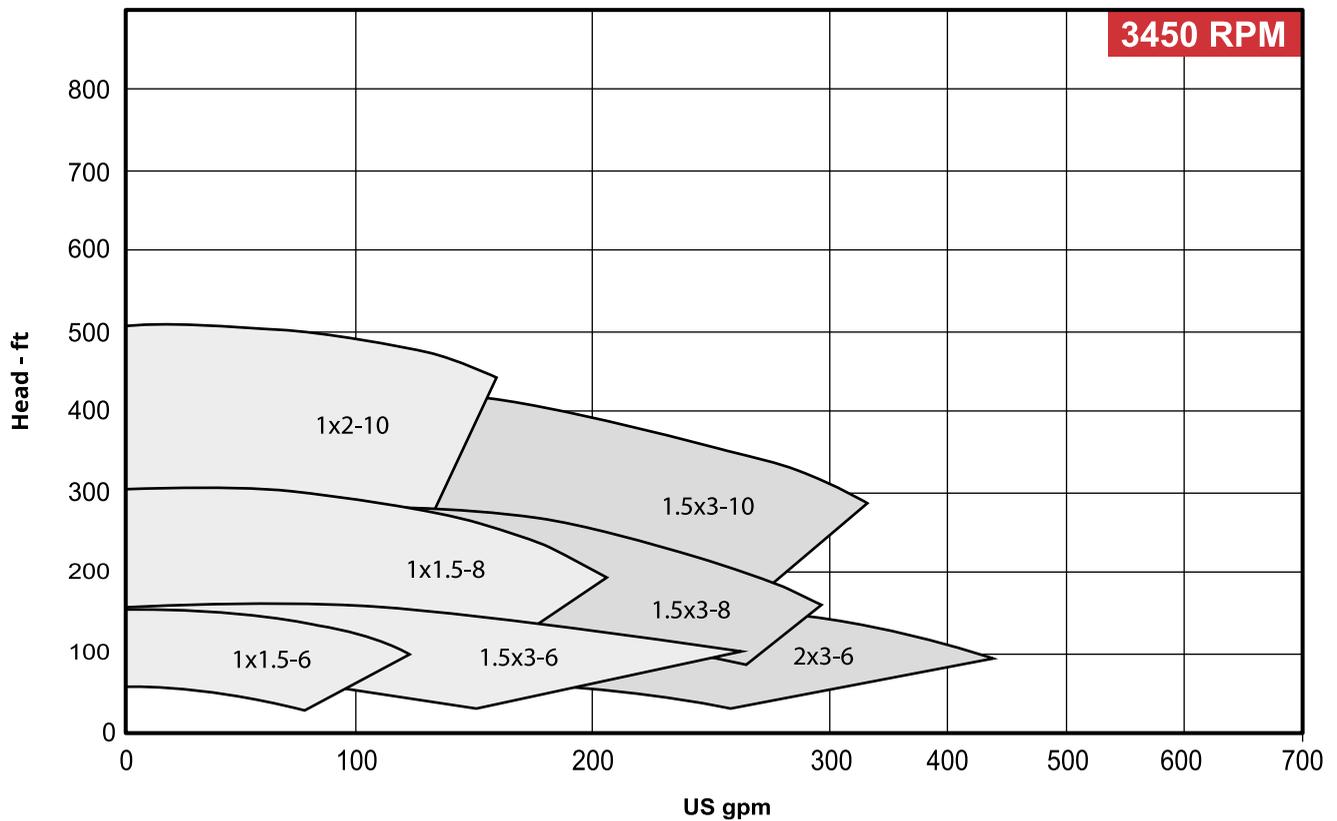
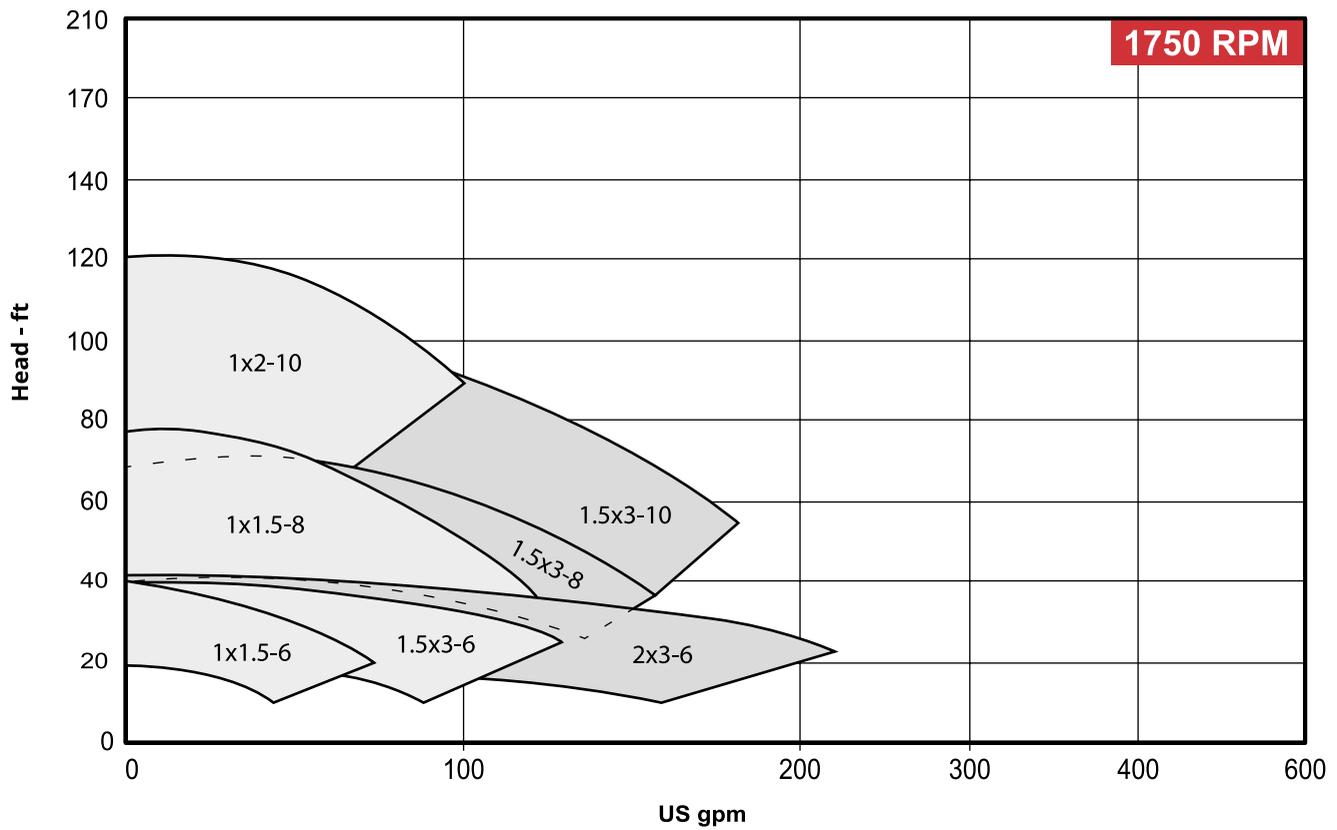
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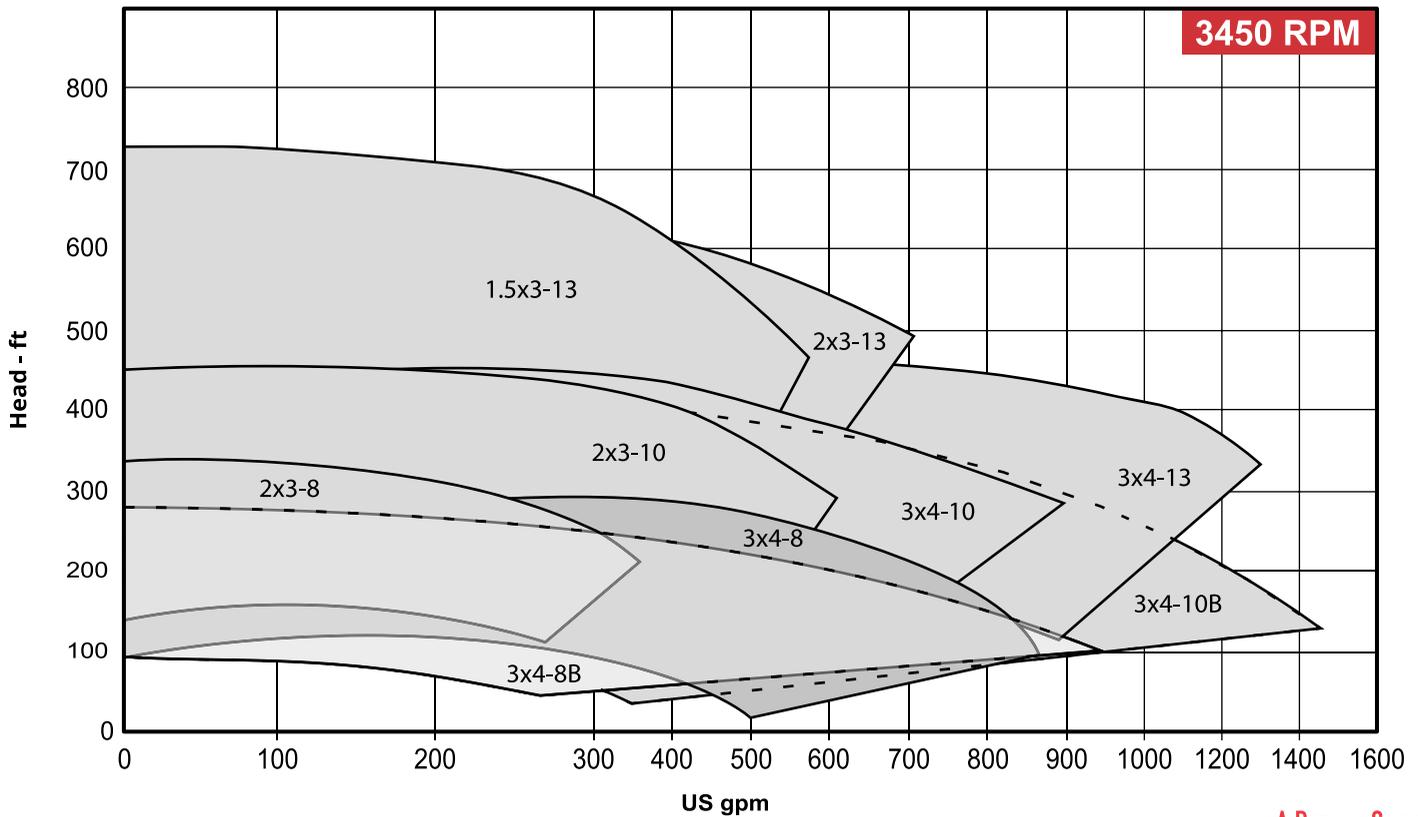
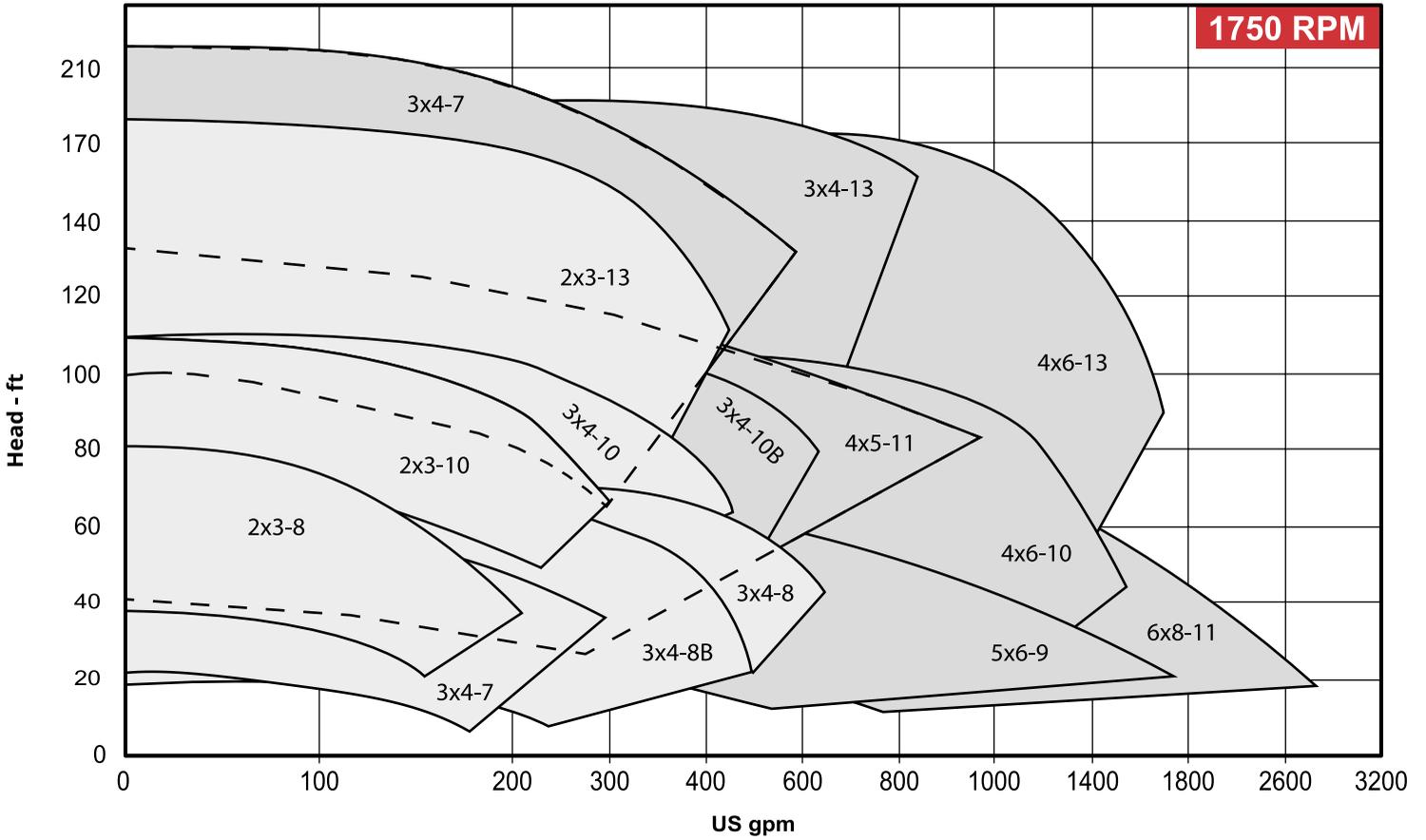
# 7071 Series Curves

## 7071S W/67220



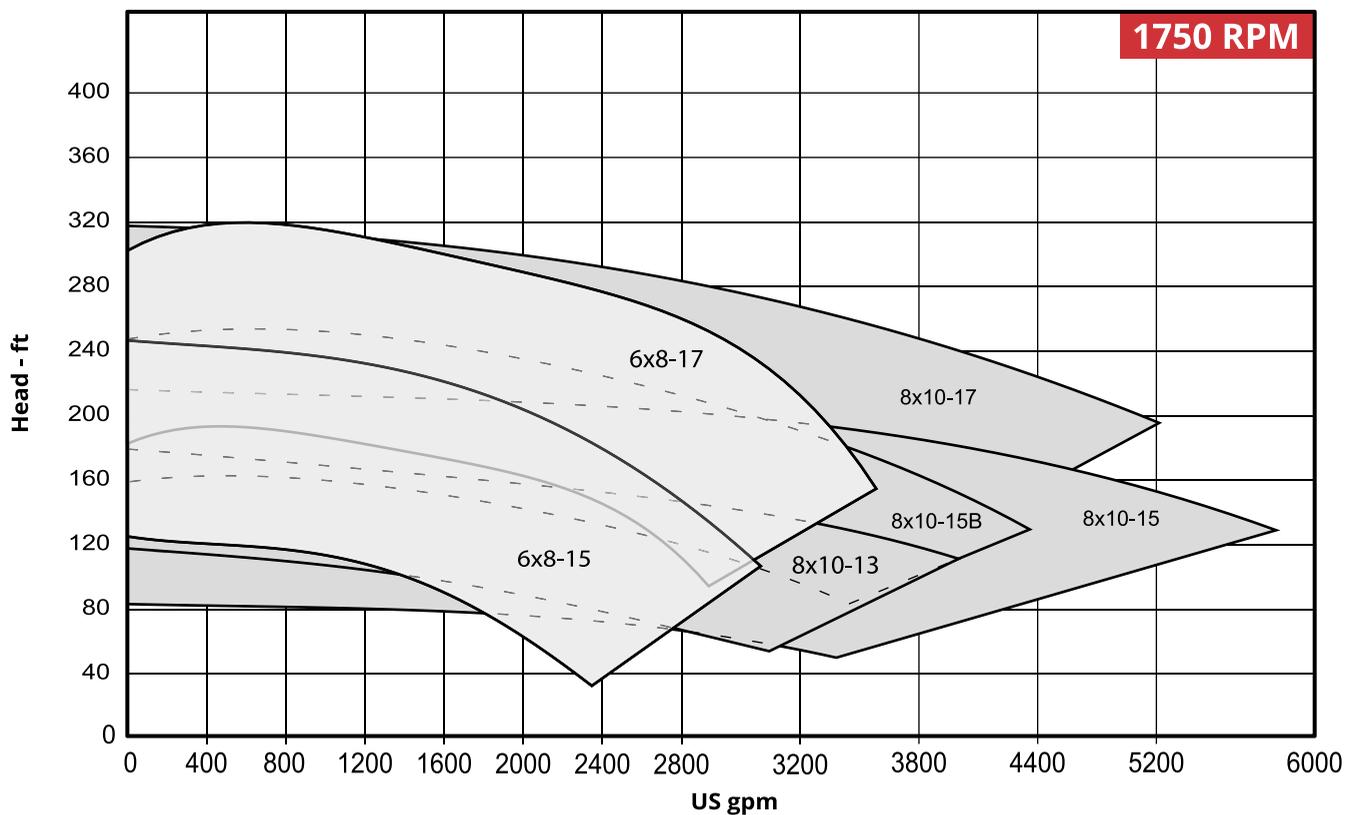
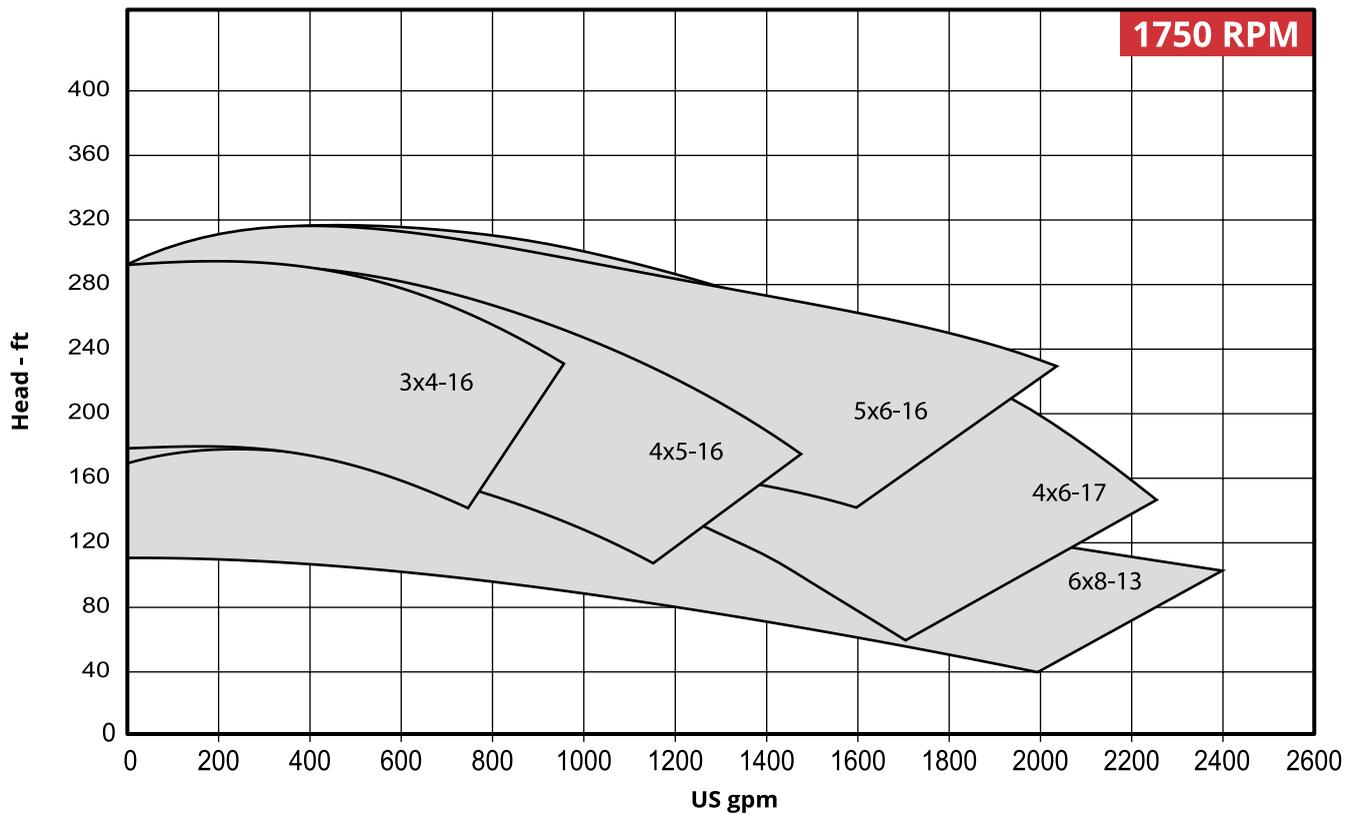
Consult *PumpIQ* for individual model curves.

# 7071M W/67220



# 7071 Series Curves

7071L W/67220

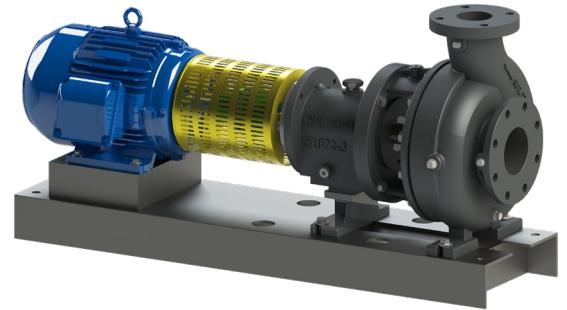


# 7071 ANSI Series Capabilities

Capacities up to 5,000 gpm | Pressures up to 700' TDH

**Gusher 7071 Series ANSI Dimension Pumps** provide years of trouble-free, low-maintenance operation. The series includes horizontal models in all standard ANSI envelope sizes (B73.1), from AA to A120. To meet an even greater range of performance parameters (particularly applications with high flows at low pressures), the series also includes models with ANSI construction in nonstandard sizes. Over 100 years of engineering and applications experience goes into manufacturing each pump at our US plants.

To ensure reliability, 7071 Series pumps are constructed with a heavy-duty shaft and bearings. Renewable shaft sleeves further extend service life. Problem-solving design features, such as external impeller adjustment and Back Pullout construction, eliminate common operation and maintenance hassles.



## 7071 Series Features

- ANSI 73.1 style foot-mounted casing with ANSI 16.5 standard flanges for simple installation
- Series includes all ANSI envelope sizes, plus additional models to achieve higher flows at low pressures
- Centerline Intake and discharge minimizes pipe stress and vibration
- Renewable shaft sleeve protects shaft from wear
- Back Pullout design speeds maintenance
- External impeller adjustment allows clearances to be set without downtime

## 7071 Series Options

- Ductile iron, 316 stainless steel, stainless fitted construction; other alloys available
- Impeller semi-enclosed or fully-enclosed (model-dependent; consult Gusher Engineering)
- Packing or choice of multiple mechanical seal types and materials
- Standard bore and tapered bore seal chambers
- Cast iron base
- 1750 RPM or 3450 RPM motor speeds
- Single or Three Phase motor
- Seal flush line
- Solid shaft

## Applications

- Oil processes
- Municipal systems
- Filtration
- Wastewater
- Water purification
- Paint systems
- Paper pulp
- General industrial processes

# Gusher Pumps Advantages

## NEW! Gusher Quick Ship Program

Lead time uncertainty costs you time and money. The new **Gusher Quick Ship Program** eliminates the guesswork with clear, committed delivery schedules.

We've streamlined production and increased raw material inventory for select pump models and parts. The result is faster delivery with the same dependable Gusher quality. All at no added cost; the Gusher Quick Ship Program is offered at current list prices.

The Gusher Quick Ship Program is rolling out first with the 7071 Series ANSI. We are committed to delivering standard pumps in four weeks, and some components in as little as one.

PRODUCT TYPE	LEAD TIME (After Order Receipt)
Complete pumps with baseplate, coupling guard & component seals	4 weeks
Bare pumps with component seal & seal shaft guard (no baseplate, coupling, or coupling guards)	2 weeks
Bare Power Frames	1 week
Rotating Assemblies	2 weeks



### What's included for the 7071 Series ANSI

- Standard construction models in sizes from 1x1.5-6 to 6x8-13
- Stainless fitted construction and all 316 stainless construction
- Semi-enclosed impellers, impeller trimming and balancing included

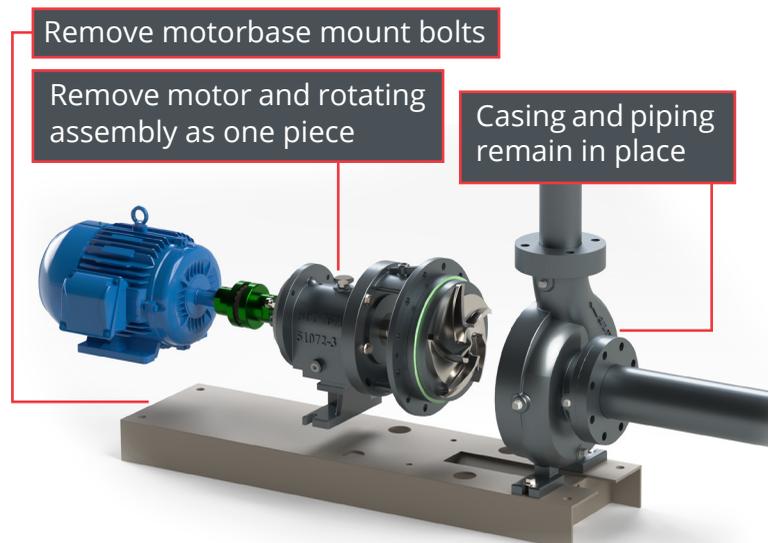
The Gusher Quick Ship Program excludes custom pump modifications including specialty seals, cast iron bases or other nonstandard modifications. The program applies to orders of five or less pumps, though we will consider accommodating larger orders on a case-by-case basis.

Contact **Gusher Inside Sales** or your **Ruthman Regional Sales Manager** for lead times on non-standard pump constructions and larger orders.

## Back Pullout Design

Routine maintenance is critical to keeping all process equipment running at peak performance. While necessary, preventative work carries a cost in both man hours and loss of production during service. Gusher's Back Pullout design, standard on 7071 Series ANSI models, minimizes these costs by cutting down overall repair time.

Rather than disconnecting piping and uninstalling the entire pump, this design allows just the rotating elements to be removed. The casing, inlet pipe and discharge pipe remain in place. Once the pump is serviced (typically replacement of the seal assembly or shaft sleeve) the pump is quickly returned to operation.

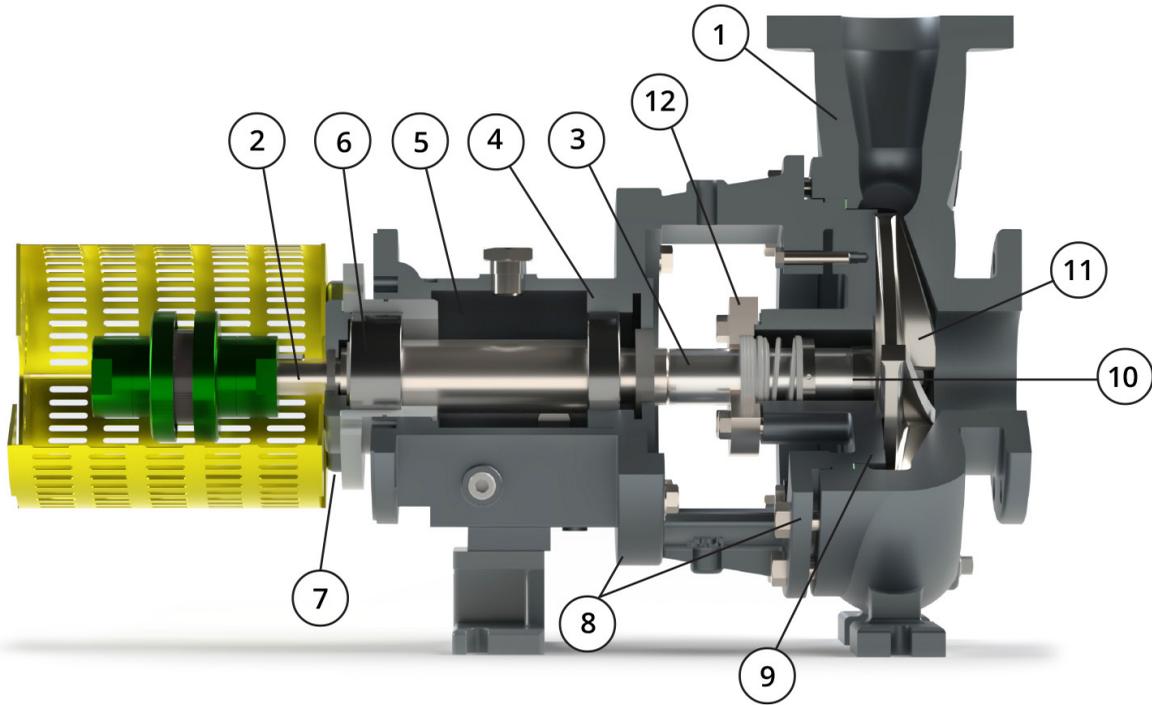


# ANSI Dimensional Interchangeability

POWER FRAME	GUSHER MODEL	ANSI SIZE	QUICK SHIP ELIGIBLE
<b>7071 S</b> <b>1.325" Shaft Dia.</b> <b>Max. BHP - 40 HP</b>	1x1.5-6	AA	✓
	1.5x3-6	AB	✓
	2x3-6	A10	✓
	1x1.5-8	AA	✓
	1.5x3-8	AB	✓
<b>7071 M</b> <b>1.75" Shaft Dia.</b> <b>Max. BHP - 122 HP</b>	3x4-7	A70	✓
	2x3-8	A60	✓
	3x4-8	A70	✓
	3x4-8B	A70	✓
	5x6-9	*	✓
	1x2-10	A05	✓
	1.5x3-10	A50	✓
	2x3-10	A60	✓
	3x4-10	A70	✓
	3x4-10B	A40	✓
	4x6-10	A80	✓
	4x5-11	*	✓
	6x8-11	*	✓
	1.5x3-13	A20	✓
	2x3-13	A30	✓
3x4-13	A40	✓	
4x6-13	A80	✓	
<b>7071 L</b> <b>2.5" Shaft Dia.</b> <b>Max. BHP - 350 HP</b>	6x8-13	A90	✓
	8x10-13	A100	✓
	6x8-15	A110	✓
	8x10-15	A120	
	8x10-15B	A120	
	3x4-16	*	
	4x5-16	*	
	5x6-16	*	
	4x6-17	*	
	6x8-17	*	
	8x10-17	*	

\*Not a standard ANSI envelope size

# Standard 7071 Pump Construction



## 1. Heavy Duty Casings

Increase service life under corrosive and erosive conditions. All sizes are self-venting with centerline discharge and drain plug.

## 2. Heavy Duty Shaft

Minimum deflection increases life for less maintenance.

## 3. Renewable Shaft Sleeve

Easily removed hook-type sleeve eases maintenance and is relieved to accommodate temperature changes.

## 4. Bearing Housing

To ensure long bearing life, heavy-duty bearing housing is sealed against contaminants. Water-cooled for high-temperature applications.

## 5. Oil Lubrication

Standard on all units. The power frame is vented. Oil may also be cooled for high-temperature applications.

## 6. Heavy Duty Thrust Bearing

Double-row thrust bearing minimizes shaft end play for more effective stuffing box sealing, longer mechanical seal life, and greater resistance to axial and radial loads.

## 7. External Impeller Adjustment

"Like-new" clearance can be restored in minutes through simple external adjustment, maintaining original high efficiencies.

## 8. Rabbeted Fits

Accurately machined rabbets ensure positive alignment, longer seal life, and easy replacement of rotating assemblies when maintenance is required.

## 9. Contained Casing Gasket

Protects against blowout.

## 10. Positive Sealing at Impeller

Teflon O-ring protects the shaft from the pumped liquid.

## 11. Semi-enclosed Impeller

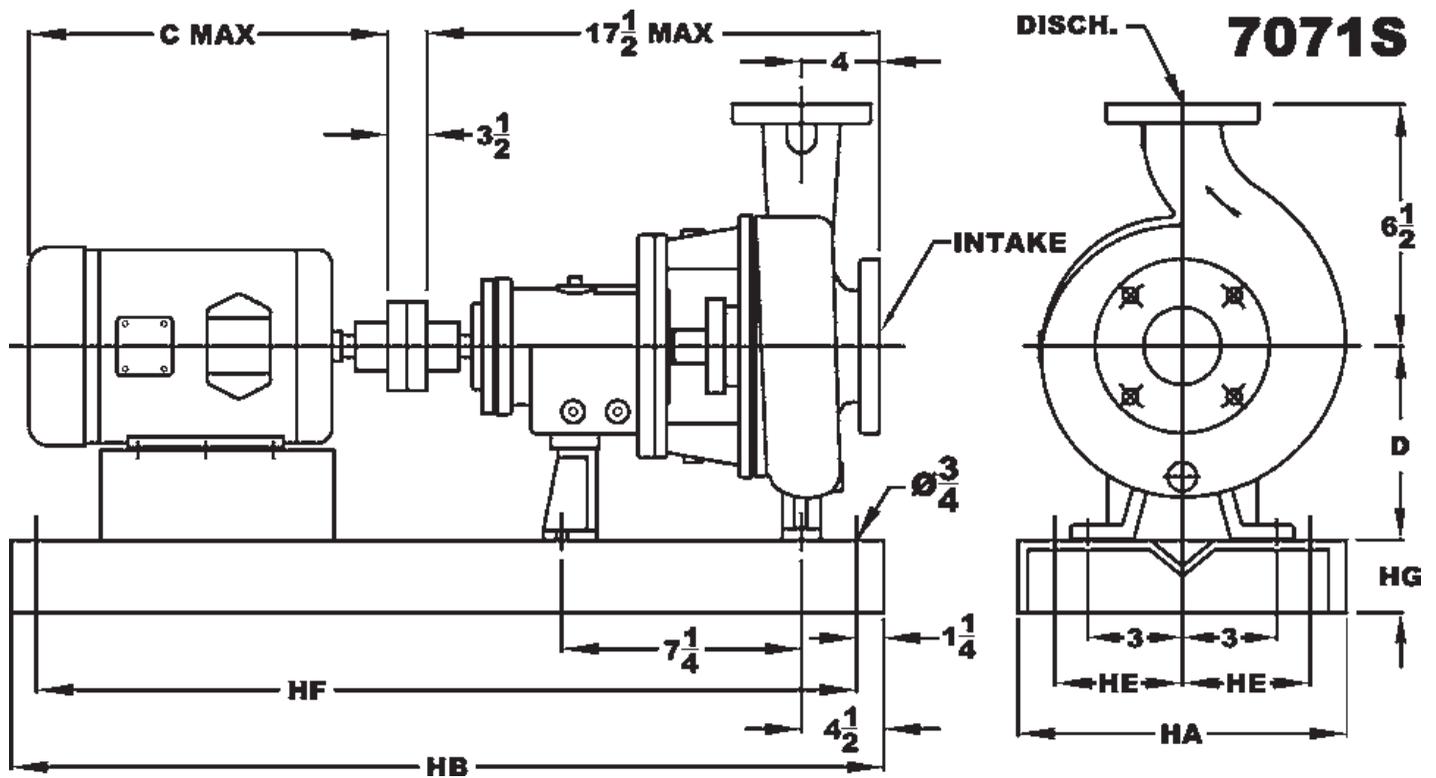
Designed with back pump-out vanes to minimize axial thrust. Handles solids and stringy material.\*

## 12. Shaft Sealing Methods

Standard or large bore component & cartridge seal options available.

\*Models 3x4-16 and 5x6-16 are supplied with enclosed impellers.

# 7071S W/67220 Base



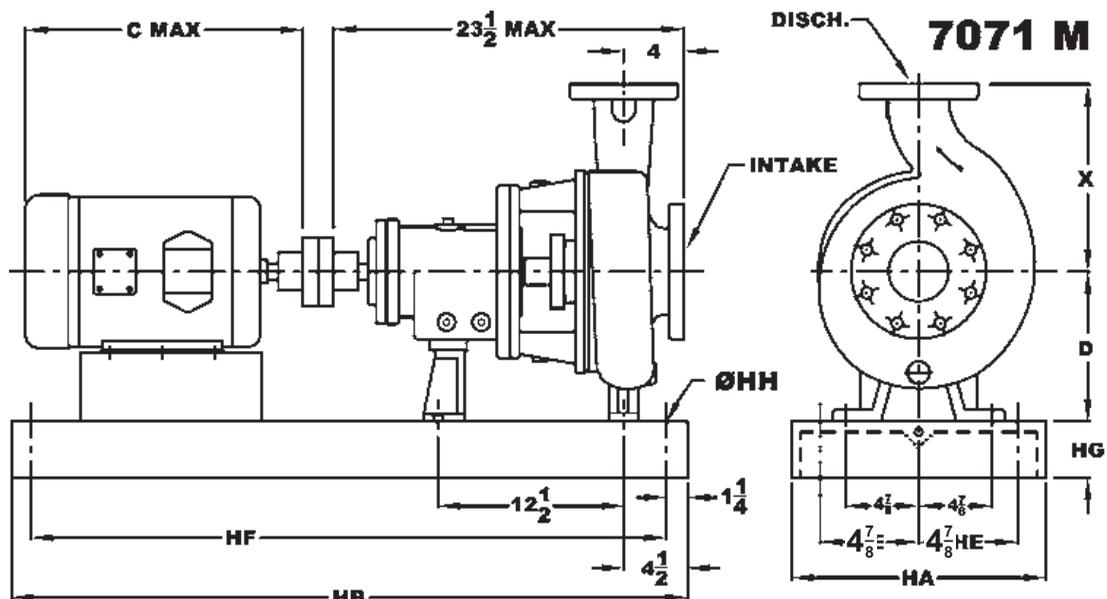
For reference only; not for construction. Contact Gusher Engineering for certified drawings.

## Dimensions & Weight

MODEL	DISCHARGE	INTAKE	MECHANICAL SEAL SIZE	WEIGHT
1x1.5-6	1"	1.5"	1.375"	85 lbs.
1.5x3-6	1.5"	3"	1.375"	95 lbs.
2X3-6	2"	3"	1.375"	98 lbs.
1x1.5-8	1"	1.5"	1.375"	105 lbs.
1.5x3-8	1.5"	3"	1.375"	110 lbs.

NEMA FRM.	BASEPLATE	C (MAX.)	D	HA	HB	HE	HF	HG
56-145	1S	13.5"	5.25"	10"	35"	4"	32.5"	3"
182-215	2S	19.5"	5.25"	12"	39"	4.5"	36.5"	3.25"
254-286	3S	27"	6.25"	15"	46"	6"	43.5"	4.125"

# 7071M W/67220 Base



For reference only; not for construction. Contact Gusher Engineering for certified drawings.

## Dimensions & Weight

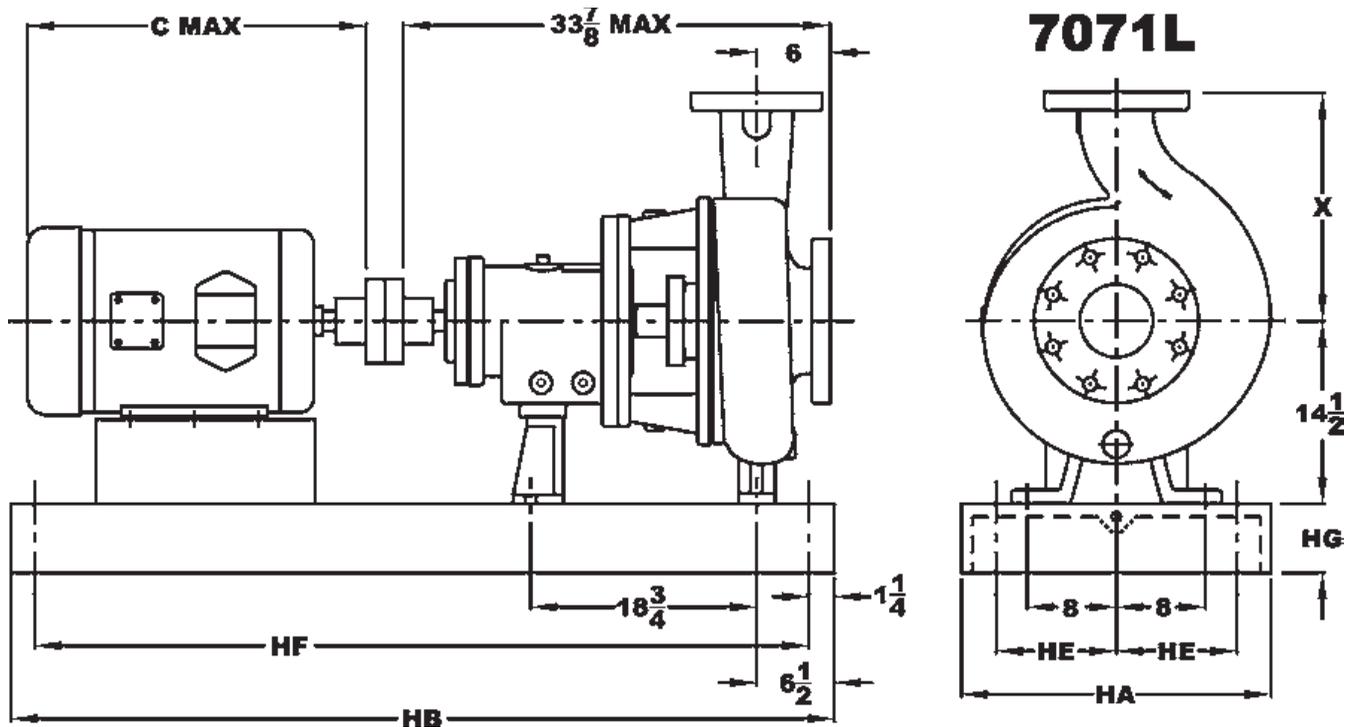
MODEL	DISCHARGE	INTAKE	X	D	MECHANICAL SEAL SIZE	WEIGHT
3x4-7	3"	4"	11"	8.25"	1.750"	225 lbs.
2x3-8	2"	3"	9.5"	8.25"	1.750"	205 lbs.
3x4-8	3"	4"	11"	8.25"	1.750"	225 lbs.
3x4-8B	3"	4"	11"	8.25"	1.750"	225 lbs.
5x6-9*	5"	6"***	13.5"	10"	1.750"	325 lbs.
1x2-10	1"	2"	8.5"	8.25"	1.750"	205 lbs.
1.5x3-10	1.5"	3"	8.5"	8.25"	1.750"	225 lbs.
2x3-10	2"	3"	9.5"	8.25"	1.750"	235 lbs.
3x4-10	3"	4"	11"	8.25"	1.750"	270 lbs.
3x4-10B	3"	4"	12.5"	10"	1.750"	280 lbs.
4x6-10	4"	6"***	13.5"	10"	1.750"	310 lbs.
4x5-11*	4"	5"***	13.5"	10"	1.750"	325 lbs.
6x8-11*	6"	8"	16"	14.5"	1.750"	475 lbs.
1.5x3-13	1.5"	3"	10.5"	10"	1.750"	250 lbs.
2x3-13	2"	3"	11.5"	10"	1.750"	280 lbs.
3x4-13	3"	4"	12.5"	10"	1.750"	335 lbs.
4x6-13	4"	6"***	13.5"	10"	1.750"	410 lbs.

NEMA FRM.	BASEPLATE	C	HA	HB	HE	HF	HG	HH
143-215	1M	19.5"	12"	45"	4.5"	42.5"	3.75"	.75"
254-286	2M	27"	15"	52"	6"	49.5"	4.125"	1"
324-326	3M	30"	18"	58"	7.5"	55.5"	4.75"	1"
364-365	3M	34"	18"	58"	7.5"	55.5"	5.75"+ - 4.75"++	1"
404-405	4M	35.5"	22"	60"	7.5"	57.5"	6.75"+ - 5"++	1"
44	4M	46.5"	22"	60"	7.5"	57.5"	7.75"+ - 6"++	1"

\*Not a standard ANSI envelope size \*\*Suction Flange has 8.75-1 UNC tapped holes

+Pump with 8.25" D dimension ++Pump with 10" D dimension

# 7071L W/67220 Base



For reference only; not for construction. Contact Gusher Engineering for certified drawings.

## Dimensions & Weight

MODEL	DISCHARGE	INTAKE	X	A	B	D	MECHANICAL SEAL SIZE	WEIGHT
6x8-13	6"	8"	16"	33.875"	14.500"	6.000"	2.500"	565 lbs.
8x10-13	8"	10"	18"	33.875"	14.500"	6.000"	2.500"	575 lbs.
6x8-15	6"	8"	18"	33.875"	14.500"	6.000"	2.500"	616 lbs.
8x10-15	8"	10"	19"	33.875"	14.500"	6.000"	2.500"	750 lbs.
8x10-15B	8"	10"	19"	33.875"	14.500"	6.000"	2.500"	720 lbs.
4x6-17*	4"	6"	16"	33.875"	14.500"	6.000"	2.750"	650 lbs.
6x8-17*	6"	8"	18"	33.875"	14.500"	6.000"	2.750"	730 lbs.
8x10-17*	8"	10"	19"	33.875"	14.500"	6.000"	2.750"	830 lbs.
3x4-16*	3"	4"	14"	33.000"	11.000"	4.875"	2.500"	675 lbs.
4x5-16E*	4"	5"	14"	33.000"	11.000"	5.500"	2.500"	700 lbs.
5x6-16E*	5"	6"	15.75"	33.000"	12.375"	5.750"	2.500"	700 lbs.

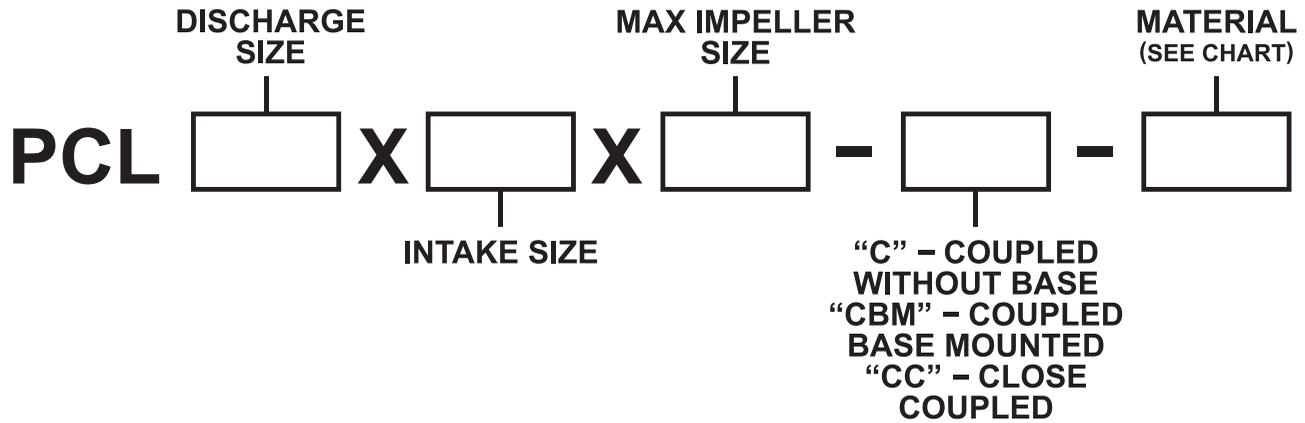
NEMA FRM.	BASEPLATE	C	HA	HB	HE	HF	HG
213-256	1L	24"	22"	62"	9.5"	59.5"	4"
284-365	2L	34"	22"	68"	9.5"	65.5"	4.75"
404-445	3L	46.5"	22"	80"	9.5"	77.5"	4.75"
447	4L	46.5"	26"	90"	9.5"	87.5"	4"

\*Not a standard ANSI envelope size

# 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 1.5" diameter intake, with impeller of 6" maximum, and ductile iron construction, the model number would be:

**PCL-1 x 1.5-6-CBM-A**

## Standard Materials of Construction

MATERIAL DESIGNATION	TYPE	DESCRIPTION
A	Ductile Iron	All Iron Construction
B	316 Stainless Steel	316 Stainless Steel Wetted Parts
C	Stainless Steel Fitted	316 Stainless Steel Shaft Sleeve and Impeller

All brochure dimensions are for reference only; not for construction.  
Contact Gusher Engineering for certified drawings.

## 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.

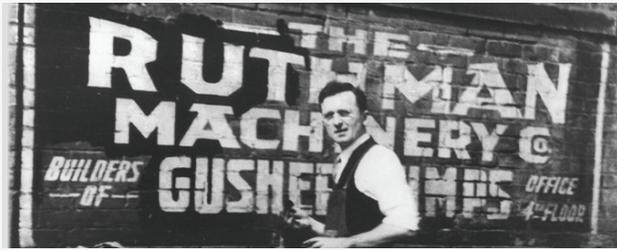
## We Can Help

Our sales department will help you select the proper pump for your application.

Call 859.824.5001 or email Sales@Gusher.com.



## Ruthman Companies: A family-owned business supplying pumps for over 100 years



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 seal-less 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 1990s, 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.

### GUSHER PUMPS LOCATIONS

#### Williamstown Headquarters

115 Industrial Road  
Williamstown, KY 41097  
Phone: 859.824.5001  
Email: [Info@Gusher.com](mailto:Info@Gusher.com)  
[www.Gusher.com](http://www.Gusher.com)

#### Dry Ridge Manufacturing

22 Ruthman Drive  
Dry Ridge, KY 41035  
Phone: 859.824.5001  
Email: [Info@Gusher.com](mailto:Info@Gusher.com)

#### Dry Ridge Training Facility

3565 Dixie Highway  
Dry Ridge, KY 41035  
Phone: 859.824.5001  
Email: [Info@Gusher.com](mailto:Info@Gusher.com)

#### New Castle Sales & Service

403 North Ninth Street  
New Castle, IN 47362  
Phone: 765.529.5624  
Email: [GusherNC@Gusher.com](mailto:GusherNC@Gusher.com)

#### Gusher Pumps, Shanghai

655 Caosheng Road  
Jiading District  
Shanghai, China 201808  
Phone: +86 (021) 55151993  
Email: [Flomo@Gusher.com](mailto:Flomo@Gusher.com)

### RUTHMAN COMPANIES MANUFACTURING DIVISIONS

#### BSM Pump Corp.

260 Narragansett Park Drive  
East Providence, RI 02916  
Phone: 401.471.6350  
Email: [Sales@BSMPump.com](mailto:Sales@BSMPump.com)  
[www.BSMPump.com](http://www.BSMPump.com)

#### Fulflo Hydraulic Valves

459 East Fancy Street  
Blanchester, OH 45107  
Phone: 937.783.2411  
Email: [Info@Fulflo.com](mailto:Info@Fulflo.com)  
[www.Fulflo.com](http://www.Fulflo.com)

#### Nagle Pumps

3565 Dixie Highway  
Dry Ridge, KY 41035  
Phone: 708.754.2940  
[www.NaglePumps.com](http://www.NaglePumps.com)

#### Process Systems Inc. Headquarters

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[www.PSI4Pumps.com](http://www.PSI4Pumps.com)

#### Process Systems Inc. Midwest Service

485 N. State Route 341 South  
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Phone: 765.295.2206  
Email: [Sales@PSI4Pumps.com](mailto:Sales@PSI4Pumps.com)  
[www.PSI4Pumps.com](http://www.PSI4Pumps.com)

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Cincinnati, OH 45223  
Phone: 513.779.3034  
Email: [Info@RAEPumps.com](mailto:Info@RAEPumps.com)  
[www.RAEPumps.com](http://www.RAEPumps.com)

#### Ruthman Pumps & Service

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Phone: 513.559.3546  
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