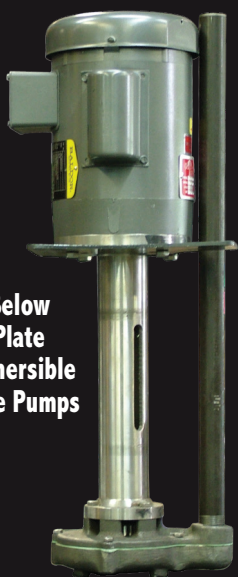




GUSHER

GENERAL SERVICE INDUSTRIAL PUMPS

**Below
Plate
Immersible
Type Pumps**



**Flange
Mount
Seal Type
Pumps**



Tank Units with Multi-Stage Immersible Pumps

**Above
Plate
Discharge
Coolant
Type
Pumps**



**11029
Immersible
Type**



**Vertical
Stainless Steel
Multi-Stage
Immersible
Pumps**



THE MOST RELIABLE CHOICE SINCE 1912

Why Gusher Pumps?



A Century of Innovation

Since 1912, the Ruthman Company has been the proven leader in industrial pump design, engineering and manufacturing for the machine tool and industrial manufacturing industries.

In 1924, The Ruthman Company designed and introduced the Gusher Pump, the industry's first sealless centrifugal pump.

Proven Reliability

From the Ruthman Machinery Company's early days of building equipment to power the Ohio River steamboats, to providing essential equipment to today's high tech, high volume production manufacturing facilities, Ruthman's Gusher Pump line is known for its rugged design and trouble-free operation. Built into every Gusher Pump are precision machined, sturdy one-piece shafts, electronically balanced rotating assemblies (increasing bearing life, cutting vibration and wear), no metal to metal contact, no priming which saves time, less energy usage when throttled, instantaneous liquid flow and balanced thrust obtained by equalized pumping action.

Extensive Selection and Flexibility

Gusher Pumps offers a broad product line which is, by design, easily adapted for the solution to any pumping application and environment. Whether off the shelf or special make-up, Gusher will make sure our customer has what is needed.

Gusher's primary attribute is willingness and ability to adapt and customize (or build from scratch) products for situations unique to specific requirements.



Below Plate Immersible Type Pumps

Applications

- Machine Tool Hydraulic Coolant
- High Volume Transfer

Pump Features

- Available in Cast Iron or Plastic Impellers
- Discharge Parallel with shaft
- Multiple Lengths Available
- Fan Cooled Motors and Custom Motors Available
- Horsepowers to 1hp



Below Plate Immersible Type Technical Data

The Drawings below and the chart on the facing page illustrate the typical specifications of various Immersed Type Gusher Coolant Pumps, and will aid in selecting the proper type and size pump to meet a specific requirement. Note that from figures 2, 3 and 4 below, that these models are built with a circular flanged bracket and may be mounted directly to the reservoir. The construction of models shown only in Fig. 2 and 3 eliminates piping within the reservoir or tank. WHEN ORDERING, please specify: Model Number; whether X-Long, Long or Short, Motor Horsepower and Motor Current Characteristics. For Extended Models Up to 50" (In 1" increments) Call Gusher at (859) 824-3100.

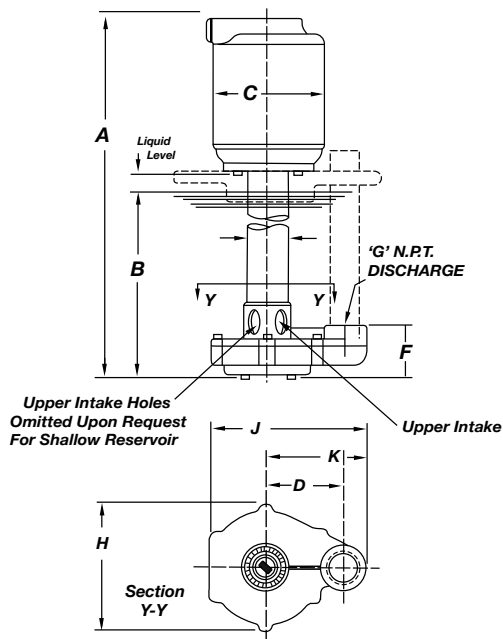


Fig. 1

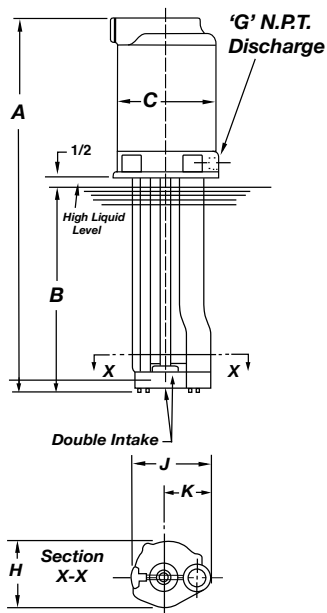


Fig. 2

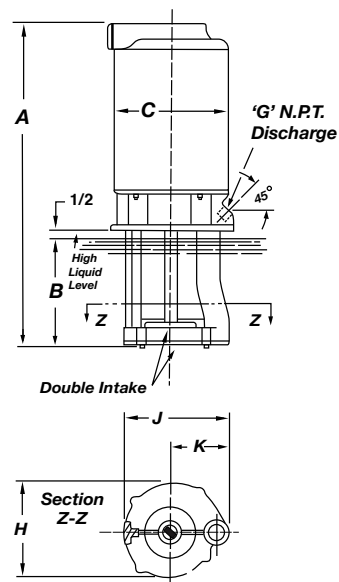


Fig. 3

THE TYPES OF PUMPS IN FIGURES 1 AND 5 MAY BE MOUNTED BY MEANS OF ANGLE, ARM OR PLATE BRACKETS.

FIGURES 1 - 5 PIPING AVAILABLE ON REQUEST.
FIGURES 1 - 4 & 5 "B" DIMENSIONS VARIABLE UP TO 10' LENGTHS

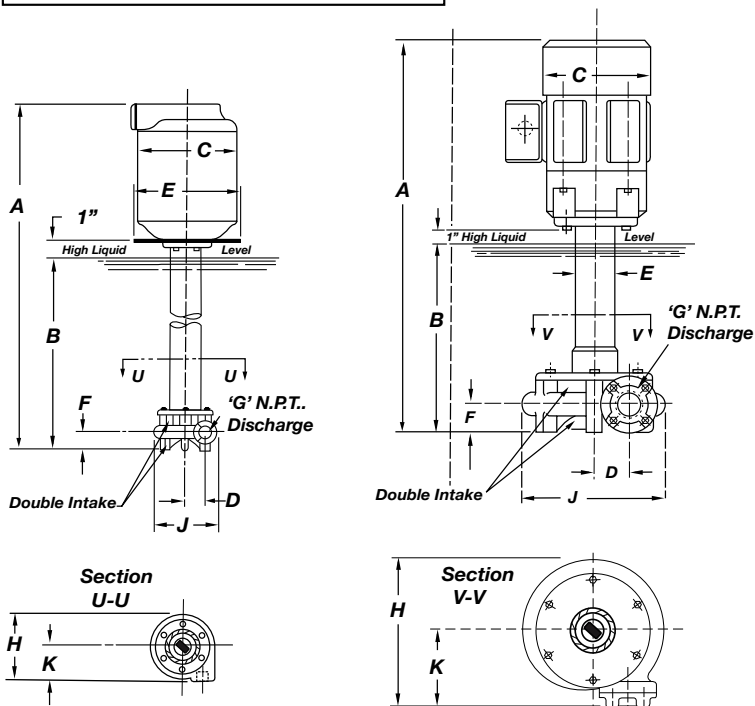


Fig. 4

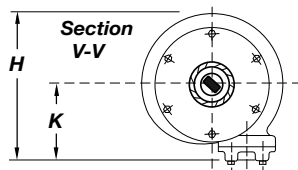
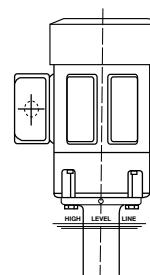
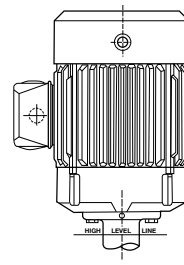


Fig. 5

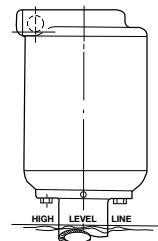
TYPICAL MOTORS



143 & 145T Fr
3/4, 1, 1 1/2, 2, 3, & 5 HP



182T Thru 215T Fr
7 1/2 HP Thru 10 HP



48 & 56 Fr T.E.N.V.
1/10 HP Thru 3/4 HP

Below Plate Immersible Type Dimensions and Capacities

1725 R.P.M.				Pump Selection is Normally Made by Capacity Required. Use the first 3 Columns to assist in Pump Selection																		
MAX. HEAD IN FEET	MAX. HEAD & G.P.M. @ RATED H.P.		CAPACITY CURVE NO.	MODEL	H.P.	FIG.	A			B			MAX. DIMENSIONS									
	HEAD	G.P.M.					X-LONG	LONG	SHORT	X-LONG	LONG	SHORT	C	D	E	F	G N.P.T.	H	J	K		
10	2	18	1	9025	1/10	4	19 3/8	16 1/16	14 3/16	10 3/16	7 5/8	5 5/8	5 5/8	1 1/2	6	1	1/2	4 7/16	4 7/16	2 1/4		
14	4	65	9	11021	1/4	5	23 3/8	19 5/8	—	13 3/8	9 5/8	—	6 7/16	2 1/4	2 3/8	—	1 1/4	6	6 3/8	3 3/8		
14	0	35	2	UL	1/4	1	23 15/16	19 15/16	16 5/16	11 5/16	9 15/16	6 5/16	6 7/16	2 5/8	2 3/8	2 3/8	3/4	5 1/4	6 1/16	3 3/16		
14	0	40	2	UD	1/4	1	24 1/8	21 1/8	16 1/8	14 7/8	11 1/8	6 7/8	6 7/16	4 3/16	2 3/8	2 3/8	1	6 7/8	8 11/16	5 3/16		
17	2	33	1	9050	1/4	3	19 1/2	16	—	9 1/2	5 7/8	—	6 7/16	—	7	7 5/8	3/4	5 1/4	5 13/16	3 1/4		
21	10	45	3	RL	1/2	1	24 1/2	20 1/2	—	14 1/2	10 1/2	—	6 7/16	4 1/2	2 3/8	3	1 1/4	7 1/4	9	9 3/4		
21	0	118	9	11023A	1/2	5	27 1/16	24 1/16	—	15 3/8	12 3/8	—	6 7/16	2 1/4	2 1/2	—	1 1/2	8 1/8	8	4 1/8		
21	20	62	7	11029	1/2	5	23 1/2	20 1/2	—	12 1/16	9 1/16	—	6 7/16	2 1/4	2 1/2	—	1 1/4	9 3/8	9	4 1/8		
34	18	45	3	RL	1/2	1	25 7/8	21 7/8	—	14 1/2	10 1/2	—	6 7/16	4 1/2	2 3/8	3	1 1/4	7 1/4	9	5 3/4		
20	0	135	9	11023A	3/4	5	26 15/16	23 15/16	—	15 3/8	12 3/8	—	6 7/16	2 1/4	2 1/2	—	1 1/2	8 1/8	8	4 1/8		
23	5	104	8	BL	3/4	1	—	25 7/16	18 3/16	—	14 3/8	7 1/4	6 7/16	4 3/4	2 1/2	4 15/16	1 1/2	8 1/4	10 15/16	6 1/2		
23	20	65	7	11029	3/4	5	23 3/8	20 3/8	—	12 1/16	9 1/16	—	7 1/16	2 1/4	2 1/2	—	1 1/4	9 3/8	9	4 1/8		
35	7	105	7	11029	1	5	25 5/16	22 5/16	—	12 1/16	9 1/16	—	7 1/16	2 1/4	2 1/2	—	1 1/4	9 3/8	9	4 1/8		
22	5	168	11	CML	1	1	34	29	24	20 3/4	15 3/4	10 3/4	7 1/16	5 1/2	2 1/2	3 3/8	2	9 15/16	12 1/4	7 1/8		
27	23	95	10	1025	1	5	32 1/2	28 1/2	—	19 1/4	15 1/4	—	7 1/16	2 1/2	3 1/2	—	2 1/2	9 1/4	9 3/8	4 3/4		
23	2	112	8	BL	1	1	—	27 3/8	20 1/2	—	14 3/8	7 1/4	7 1/16	4 3/4	2 1/2	4 15/16	1 1/2	8 1/4	10 15/16	6 1/2		
45	38	76	11	CML	1 1/2	1	★ 35	30	25	★ 20 3/4	15 3/4	10 3/4	7 15/16	10 3/4	2 1/2	3 3/8	2	9 5/16	12 1/4	7 1/8		
27	14	195	10	11025	1 1/2	5	★ 33 1/2	29 1/2	—	★ 19 1/4	15 1/4	—	7 1/16	2 1/2	3 1/2	—	2 1/2	9 1/4	13 3/16	4 3/4		
45	27	155	11	CML	2	1	35	30	25	20 3/4	15 3/4	10 3/4	9 3/8	5 1/2	2 1/2	3 3/8	2	9 5/16	12 1/4	7 1/8		
32	0	445	13	26D	3	5	43 7/8	37 7/8	33 7/8	19 1/4	15 1/4	19 1/8	9 3/8	5 3/8	3 1/2	3 1/4	3	3 3/16	13 3/16	6 3/4		
67	9	270	12	CML	3	1	35 1/2	30 1/2	25 1/2	20 3/4	15 3/4	10 3/4	9 3/8	5 1/2	2 1/2	3 3/8	2	9 5/16	12 1/4	7 1/8		
67	36	205	12	CML	5	1	36 1/2	31 1/2	26 1/2	20 3/4	15 3/4	10 3/4	9 3/8	5 1/2	2 1/2	3 3/8	2	9 5/16	12 1/4	7 1/8		
42	0	530	13	26D	5	5	★ 44 3/8	★ 38 3/8	34 3/8	★ 29 1/8	23 1/8	19 1/8	9 3/8	5 3/8	3 1/2	3 1/4	3	3 3/16	13 3/16	—		
64	20	515	14	33D	7 1/2	5	★ 45 1/4	39 1/4	35 1/4	★ 29 1/8	★ 23 1/8	19 1/8	10 3/8	6 1/2	3 1/2	3 1/2	3	15 1/16	16 1/16	7 5/16		
122	38	600	14	33D	10	5	★ 46 3/8	40 3/8	36 3/8	★ 29 1/8	23 1/8	19 1/8	10 3/8	6 1/2	3 1/2	3 1/2	3	15 1/16	16 1/16	7 5/16		
122	76	450	14	33D	15	5	★ 50 11/16	44 11/16	40 11/16	★ 29 1/8	23 1/8	19 1/8	13	6 1/2	3 1/2	3 1/2	3	15 1/16	16 1/16	7 5/16		
122	48	650	14	33D	20	5	★ 52 1/16	46 1/16	42 1/16	★ 29 1/8	23 1/8	19 1/8	13	6 1/2	3 1/2	3 1/2	3	15 1/16	16 1/16	7 5/16		
29	0	330	15	11026	3	5	★ 37 1/2	33 1/2	29 1/2	★ 22 3/4	18 3/4	14 3/4	9 3/8	2 1/2	3 1/2	2 1/2	3	11 1/16	11 3/4	7 5/16		
38	0	455	15	11026	5	5	★ 38 1/2	34 1/2	30 1/2	★ 22 3/4	18 3/4	14 3/4	9 3/8	2 1/2	3 1/2	2 1/2	3	11 1/16	11 3/4	5 5/8		
3450 R.P.M.																						
16	2	22	18	1-P3	1/10	4	19 3/16	16 1/8	14 1/8	10 13/16	7 5/8	5 7/8	5 5/8	1 1/8	6	1	1/2	3 1/2	3 1/2	1 1/8		
16	2	22	18	6-P3	* 1/10	2	20	15 1/2	14 3/8	11 1/2	7	5 7/8	5 5/8	—	6	8 3/8	1/2	3 3/16	4 1/16	2 5/8		
16	2	22	18	8-P3	* 1/10	3	17 1/8	14 3/8	—	8	5 5/8	—	5 5/8	—	6	6 3/4	1/2	3 3/16	4 1/16	2 5/8		
29	0	34	17	9025	1/4	4	20 1/4	17 1/4	15 1/4	10 13/16	7 5/8	5 7/8	5 5/8	1 1/2	6	1	3/4	4 1/16	4 1/16	2 1/4		
32	7	75	22	11021	1/2	3	24 1/8	20 1/8	—	13	9	—	6 7/16	2 1/4	2 3/8	2 3/8	1 1/4	6	6 3/8	3 3/8		
44	7	43	19	9050	1/2	3	19 1/2	17 1/2	—	9 1/2	5 7/8	—	6 7/16	—	7	7 5/8	3/4	5 1/4	5 13/16	3 1/4		
35	0	38	20	UL	1/2	1	23 13/16	17 13/16	—	11 15/16	9 15/16	6 5/16	6 7/16	2 5/8	2 3/8	2 3/8	3/4	5 1/4	6 1/16	3 3/16		
38	4	100	22	11021	3/4	5	26 1/16	22 1/16	—	13	9	—	6 7/16	2 1/4	2 3/8	1 5/8	1 1/4	6	6 3/8	3 3/8		
59	10	46	19	9050	3/4	3	—	19 1/8	—	—	5 7/8	—	6 7/16	—	7	7 5/8	3/4	5 1/4	5 13/16	3 1/4		
52	0	49	20	UL	3/4	1	25	23	19 3/8	11 15/16	9 15/16	6 5/16	6 7/16	2 5/8	2 3/8	2 3/8	3/4	5 1/4	6 1/16	3 3/16		
68	3	72	21	UD	3/4	1	27 3/16	24 3/16	—	13 1/8	11 1/8	—	6 7/16	5 3/16	2 3/8	2 3/8	1	6 7/8	8 11/16	5 3/16		
62	0	130	26	RL	1 1/2	1	27 3/4	23 3/4	—	14 1/2	10 1/2	—	7 1/16	4 1/2	2 3/8	3	1 1/4	7 1/4	9	5 3/4		
57	47	73	24	11023A	1 1/2	5	28 1/8	25 1/8	—	14 1/8	11 1/8	—	7 1/16	2 1/4	2 1/2	1 1/8	1 1/2	8 1/8	8	4 1/8		
57	48	45	23	11029	1 1/2	5	25 5/16	22 5/16	—	12 1/16	9 1/16	—	7 1/16	2 1/4	2 1/2	1 13/16	1 1/4	9 3/8	9	4 1/8		
115	78	44	26	RL	1	1	28 3/4	24 3/4	—	14 1/2	10 1/2	—	7 1/16	4 1/2	2 3/8	3	1 1/4	7 1/4	9	5 3/4		
72	10	155	24	11023A	2	5	★ 29 1/8	26 1/8	—	14 7/8	11 7/8	—	7 1/16	2 1/4	2 1/2	1 7/8	1 1/2	8 1/8	8	4 1/8		
72	4	130	23	11029	2	5	26 3/16	23 3/16	—	12 1/16	9 1/16	—	7 1/16	2 1/4	2 1/2	1 13/16	1 1/4	9 3/8	9	4 1/8		
115	59	60	26	RL	3	1	29 1/4	25 1/4	—	14 1/2	10 1/2	—	9 3/8	2 1/4	2 3/8	3	1 1/4	7 1/4	9	5 3/4		
136	105	42	27	V346	3	1	29	27	—	14 1/4	12 1/4	—	9 3/8	6	2 3/8	3 3/8	1 1/2	9 3/8	11 13/16	7 3/8		
72	30	170	24	11023A	3	5	29 5/8	27 5/8	—	14 7/8	11 7/8	—	9 3/8	2 1/4	2 1/2	1 7/8	1 1/2	8 1/8	8	4 1/8		
72	0	210	23	11029	3	5	26 13/16	23 13/16	—	12 1/16	9 1/16	—	9 3/8	2 1/4	2 1/2	1 13/16	1 1/4	9 3/8	9	4 1/8		
136	18	173	27	V346	5	1	30	28	—	14 1/4	12 1/4	—	9 3/8	6	2 3/8	3 3/8	1 1/2	9 3/8	11 13/16	7 3/8		
82	42	205	28	11025	5	5	33 3/8	29 3/8	—	18 3/8	14 3/8	—	9 3/8	2 1/2	3 1/2	2 1/2	2 1/2	9 1/4	9 3/8	4 3/4		
102	72	115	29	11029	5	5	27 13/16	24 13/16	—	12 1/16	9 1/16	—	9 3/8	2 1/4	2 1/2	1 13/16	1 1/4	9 3/8	9	4 1/8		
88	10	330	28	11025	7 1/2	5	33 3/4	29 3/4	—	18 3/8												

Flange Mount Seal Type Pumps

Applications

Machine Tool Coolant, Swarf, Sludge and Shavings, Oils, Industrial Sump, Transfer.

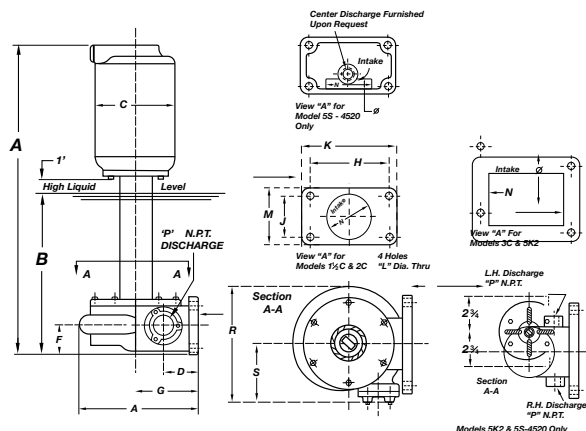
Pump Features

Capacities up to 650 GPM, up to 440' TDH, Offered in both Internal, and External Mountings, Dry Running Capabilities on most units, some models available in Stainless Steel.

Flange Mounted Gusher pumps are equipped with a self adjusting seal, which makes them ideal for mounting at or below liquid level.

These pumps are normally used in applications where the reservoir is built into the machine base and where space is an issue.

Flange mounted Gusher pumps can be converted into a pipe inlet type by use of intake adapter plates.

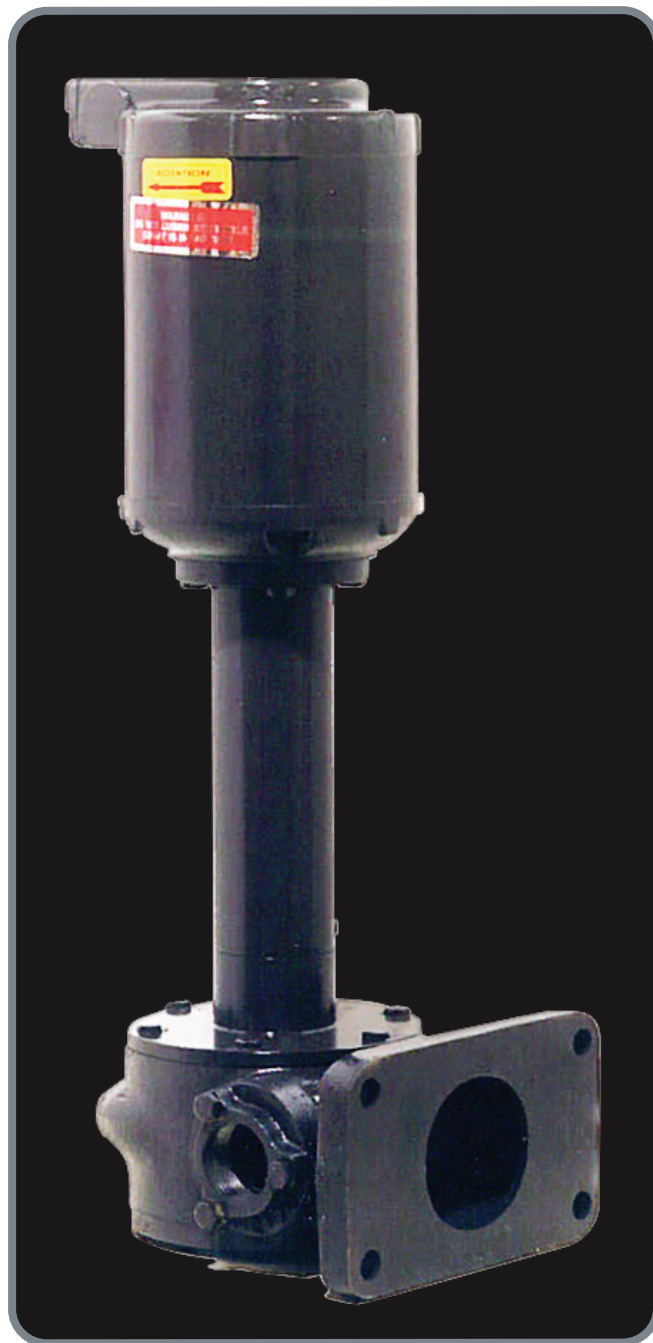


GUSHER FLANGE MOUNTED EXTERNAL DISCHARGE

Flange mounted external discharge Gusher Pumps are generally used on machine tools with the reservoir built into the base.

The drawing above illustrates R.H. Discharge L.H. discharge (opposite shown) available on request. (Model 3-P3 R. H. discharge, 4-P# L.H. discharge.)

When ordering specify: R.H. or L.H. discharge, model length (short, long, or x-long), motor horsepower, and current characteristics.



Flange Mount Seal Type Pumps Technical Data

DIMENSIONS IN INCHES

For Extended Models up to 50" (In 1" Increments) Call Gusher 859-824-5001

1725 R.P.M.				A				B				MAX. DIMENSIONS																		
MAX. TOTAL HD.	HEAD @ RATED H.P.	G.P.M. @ RATED H.P.	CURVE NO.	MODEL	H.P.	X-LONG	LONG	SHORT	X-LONG	LONG	SHORT	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S				
10	2	18	1	9025-K2	1/10	19 3⁄8	16 3⁄8	14 3⁄8	10 3⁄8	7 3⁄8	5 5⁄8	5 5⁄8	1 3⁄4	5 5⁄8	1 3⁄8	3 1⁄2	3	1 3⁄4	3 3⁄8	1 7⁄64	2 3⁄8	2 3⁄4	1 5⁄8	1 1⁄2 or 3⁄4	5 1⁄2	2 3⁄4				
8	0	15	2	5P-4521	1/10	20 1⁄4	17 1⁄4	15 1⁄4	11 1⁄4	8 1⁄4	6 1⁄4	5 5⁄8	2	6 7⁄16	1 5⁄8	4	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 3⁄8	23⁄32	1 1⁄2 or 3⁄4	4 7⁄8	2 7⁄16				
19	15	23	2	H-7550	1⁄4	26 3⁄4	22 3⁄4	—	16 3⁄4	12 3⁄4	—	6 7⁄16	2 1⁄4	9	2	5 3⁄4	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	4 1⁄4	3⁄8	1 1⁄4	6 1⁄2	3 1⁄4				
14	8	48	9	11022	1⁄4	21 5⁄8	19 5⁄8	—	11 5⁄8	9 5⁄8	—	6 7⁄16	2 3⁄4	8	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3	—	1 1⁄4	6 3⁄8	3 3⁄8				
21	17	35	4	11022C	1⁄4	21 5⁄8	19 5⁄8	15 5⁄8	11 5⁄8	9 5⁄8	5 5⁄8	6 7⁄16	2 3⁄4	8 3⁄4	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3	—	1 1⁄4	6 3⁄4	3 3⁄4				
19	1	48	2	H-7550	1⁄3	26 3⁄4	22 3⁄4	—	16 3⁄4	12 3⁄4	—	6 7⁄16	2 1⁄4	9	2	5 3⁄4	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	4 1⁄4	3⁄8	1 1⁄4	6 1⁄2	3 1⁄4				
14	1	70	4	11022	1⁄3	21 5⁄8	19 5⁄8	—	11 5⁄8	9 5⁄8	—	6 7⁄16	2 3⁄4	8	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3	—	1 1⁄4	6 3⁄8	3 3⁄8				
21	2	70	4	11022C	1⁄3	21 5⁄8	19 5⁄8	15 5⁄8	11 5⁄8	9 5⁄8	5 5⁄8	6 7⁄16	2 3⁄4	8 3⁄4	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3	—	1 1⁄4	6 3⁄4	3 3⁄4				
32	25	45	5	11022E	1⁄2	24 1⁄8	21 1⁄8	18 1⁄8	18 5⁄8	9 5⁄8	6 5⁄8	6 7⁄16	2 3⁄4	9 1⁄2	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 1⁄2	—	1 1⁄4	9	4 1⁄2				
18	3	100	9	11023B	1⁄2	27 3⁄8	24 3⁄8	21 3⁄8	15 3⁄4	12 3⁄4	9 3⁄4	6 7⁄16	2 3⁄4	9	2 3⁄4	5	6 3⁄4	4 1⁄4	8	9⁄16	5 1⁄2	5 1⁄2	3	1 1⁄2	8	4 1⁄8				
35	2	100	5	11022E	3⁄4	23 15⁄16	20 15⁄16	17 15⁄16	12 5⁄8	9 5⁄8	6 5⁄8	6 7⁄16	2 3⁄4	9 1⁄2	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 1⁄2	—	1 1⁄4	9	4 1⁄2				
19	4	125	9	11023B	3⁄4	27 1⁄8	24 1⁄8	21 1⁄8	15 3⁄4	12 3⁄4	9 3⁄4	6 7⁄16	2 3⁄4	9	2 3⁄4	5	6 3⁄4	4 1⁄4	8	9⁄16	5 1⁄2	5 1⁄2	3	1 1⁄2	8	4 1⁄8				
35	2	100	5	11022E	1	25 7⁄8	22 7⁄8	19 7⁄8	12 5⁄8	9 5⁄8	6 5⁄8	7 5⁄16	2 3⁄4	9 1⁄2	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 1⁄2	—	1 1⁄4	9	4 1⁄2				
26	23	180	10	11024	1	32 5⁄8	28 5⁄8	23 5⁄8	19 5⁄8	15 5⁄8	10 3⁄8	7 5⁄16	3 1⁄4	10 1⁄4	3 1⁄4	5 3⁄4	7 1⁄4	5 1⁄4	7 1⁄2	9⁄16	6 1⁄2	6	4	2 1⁄2	8 1⁄2	4 7⁄8				
26	14	180	10	11024	1 1⁄2	33 5⁄8	29 5⁄8	24 5⁄8	19 5⁄8	15 5⁄8	10 3⁄8	7 5⁄16	3 1⁄4	10 1⁄4	3 1⁄4	5 3⁄4	7 1⁄4	5 1⁄4	7 1⁄2	9⁄16	6 1⁄2	6	4	2 1⁄2	8 1⁄2	4 7⁄8				
20	0	160	6	11022K	1&2	36 3⁄4	23 3⁄4	—	13 1⁄4	10 1⁄2	—	9 13⁄32	3 1⁄8	11 7⁄8	2 1⁄4	6 3⁄8	6 1⁄4	3 3⁄4	8 1⁄2	9⁄16	4 1⁄2	5 1⁄2	—	1 1⁄4	11 1⁄2	5 5⁄8				
26	5	225	10	11024	2	33 5⁄8	29 5⁄8	24 5⁄8	19 5⁄8	15 5⁄8	10 3⁄8	7 5⁄16	3 1⁄4	10 1⁄4	3 1⁄4	5 3⁄4	7 1⁄4	5 1⁄4	8 1⁄2	9⁄16	6 1⁄2	6	4	2 1⁄2	8 1⁄2	4 7⁄8				
28	5	240	4	11066	2	31 9⁄16	27 9⁄16	—	17 3⁄8	13 3⁄8	—	7 5⁄16	3 3⁄4	13 1⁄2	3 5⁄16	8 5⁄8	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	4 1⁄4	1 1⁄2	2	9 1⁄2	4 3⁄4				
29	0	330	15	11030	3	38 3⁄8	34 3⁄8	30 3⁄8	23 3⁄8	19 3⁄8	15 3⁄8	9 3⁄8	4	13 1⁄16	3 3⁄4	7 1⁄4	9	6	10 1⁄2	9⁄16	7 1⁄2	7 5⁄8	4 5⁄8	3	11 1⁄16	5 7⁄8				
31	1	260	6	11022K	3	38 1⁄16	25 1⁄16	—	13 1⁄4	10 1⁄2	—	10 1⁄8	3 3⁄8	11 7⁄8	2 1⁄4	6 3⁄8	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	5 1⁄2	—	1 1⁄4	11 1⁄16	5 7⁄8				
38	0	455	15	11030	5	39 3⁄8	35 3⁄8	31 3⁄8	23 3⁄8	19 3⁄8	15 3⁄8	9 3⁄8	4	13 1⁄16	3 3⁄4	7 1⁄4	9	6	10 1⁄2	9⁄16	7 1⁄2	7 5⁄8	4 5⁄8	3	11 1⁄16	5 7⁄8				
3450 R.P.M.																														
16	4	21	18	3-P3 & 4-P3	1/10	19 3⁄8	16 3⁄8	14 3⁄8	10 3⁄8	7 3⁄8	5 5⁄8	5 5⁄8	1 1⁄8	3 3⁄8	6 3⁄16	3 7⁄8	3	1 3⁄4	3 3⁄8	1 5⁄64	2 3⁄8	2 1⁄4	1 5⁄8	1 1⁄2	3 3⁄8	2				
23	13	15	17	9-P3	1/10	—	15 13⁄16	—	—	6 13⁄16	—	5 5⁄8	1 1⁄8	3 3⁄8	1 1⁄8	3 1⁄4	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	1 3⁄4	1 5⁄8	3⁄4	5	2 1⁄2				
17	3	20	16	5P-4521	1/10	20 1⁄4	17 1⁄4	15 1⁄4	11 1⁄4	8 1⁄4	6 1⁄4	5 5⁄8	2	6 7⁄16	1 5⁄8	4	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 3⁄8	23⁄32	1 1⁄2 or 3⁄4	4 7⁄8	2 7⁄16				
29	6	30	17	9025K2	1⁄4	20 1⁄4	17 1⁄4	15 1⁄4	10 3⁄8	7 3⁄8	5 5⁄8	5 5⁄8	1 3⁄4	5 5⁄8	1 3⁄8	3 1⁄2	3	1 3⁄4	3 3⁄8	1 5⁄64	2 3⁄8	2 1⁄4	1 5⁄8	1 1⁄2 or 3⁄4	5 1⁄2	2 3⁄4				
26	0	30	16	5P-4521	1⁄4	20 1⁄4	17 1⁄4	15 1⁄4	11 1⁄4	8 1⁄4	6 1⁄4	5 5⁄8	2	6 7⁄16	1 5⁄8	4	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 3⁄8	23⁄32	1 1⁄2 or 3⁄4	4 7⁄8	2 7⁄16				
26	4	70	22	11022	1⁄2	23 1⁄2	21 1⁄2	—	11 5⁄8	9 5⁄8	—	6 7⁄16	2 3⁄4	8	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3	—	1 1⁄8	6 3⁄8	3 3⁄8				
28	0	80	25	11022C	1⁄2	23 1⁄2	21 1⁄2	17 1⁄2	11 5⁄8	9 5⁄8	5 5⁄8	6 7⁄16	2 3⁄4	8 3⁄4	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3	—	1 1⁄4	6 3⁄4	3 3⁄4				
38	12	73	22	11022	3⁄4	24 11⁄16	22 11⁄16	—	11 5⁄8	9 5⁄8	—	6 7⁄16	2 3⁄4	8	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3	—	1 1⁄4	6 3⁄8	3 3⁄8				
42	0	108	25	11022C	3⁄4	24 11⁄16	22 11⁄16	18 11⁄16	11 5⁄8	9 5⁄8	5 5⁄8	6 7⁄16	2 3⁄4	8 3⁄4	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3	—	1 1⁄4	6 3⁄4	3 3⁄4				
60	52	42	25	11022C	1	22 25⁄16	20 25⁄16	—	11 5⁄8	9 5⁄8	5 5⁄8	7 5⁄16	2 3⁄4	8 3⁄4	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3	—	1 1⁄4	6 3⁄4	3 3⁄4				
59	48	65	23	11022E	1 1⁄2	25 7⁄8	22 7⁄8	—	12 5⁄8	9 5⁄8	—	7 5⁄16	2 3⁄4	9 1⁄2	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 1⁄2	—	1 1⁄4	9	4 1⁄2				
58		73	24	11023B	1 1⁄2	29	26	—	15 3⁄4	12 3⁄4	—	7 5⁄16	2 3⁄4	9	2 3⁄4	5	6 1⁄4	3 3⁄4	8	9⁄16	5 1⁄2	5 1⁄2	3	1 1⁄2	8	4 1⁄8				
80	10	117	23	11022E	2	26 7⁄8	23 7⁄8	—	12 5⁄8	9 5⁄8	—	7 5⁄16	2 3⁄4	9 1⁄2	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 1⁄2	—	1 1⁄4	9	4 1⁄2				
70	20	140	24	11023B	2	30	27	—	15 3⁄4	12 3⁄4	—	7 5⁄16	2 3⁄4	9	2 3⁄4	5	6 3⁄4	4 1⁄4	8	9⁄16	5 1⁄2	5 1⁄2	3	1 1⁄2	8	4 1⁄8				
80	30	130	23	11022E	3	27 3⁄8	24 3⁄8	—	12 5⁄8	9 5⁄8	—	7 5⁄16	2 3⁄4	9 1⁄2	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 1⁄2	—	1 1⁄4	9	4 1⁄2				
70	35	150	24	11023B	3	30 1⁄2	27 1⁄2	—	13 3⁄4	12 3⁄4	—	7 5⁄16	2 3⁄4	9	2 3⁄4	5	6 3⁄4	4 1⁄4	8	9⁄16	5 1⁄2	5 1⁄2	3	1 1⁄2	8	4 1⁄8				
110	16	145	30	11022E	5	28 3⁄8	25 3⁄8	—	12 5⁄8	9 5⁄8	—	9 3⁄8	2 3⁄4	9 1⁄2	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 1⁄2	—	1 1⁄4	9	4 1⁄2				
88	37	290	28	11024	5	35 1⁄8	31 1⁄8	—	19 3⁄8	15 3⁄8	—	9 3⁄8	3 1⁄4	10 1⁄4	3 1⁄4	5 3⁄4	7 1⁄4	5 1⁄4	8 1⁄2	9⁄16	6 1⁄2	6	4	2 1⁄2	9 1⁄2	4 7⁄8				
130	0	200	30	11022E	7 1⁄2	28 3⁄4	25 3⁄4	—	12 5⁄8	9 5⁄8	—	10 7⁄8	2 3⁄4	9 1⁄2	2 1⁄4	5	6 1⁄4	3 3⁄4	7 1⁄2	9⁄16	4 1⁄2	3 1⁄2	—	1 1⁄4	9	4 1⁄2				
88	8	415	28	11024	7 1⁄2	35 1⁄2	31 1⁄2	—	19 3⁄8	15 3⁄8	—	10 7⁄8	3 1⁄4	10 1⁄4	3 1⁄4	5 3⁄4	7 1⁄4	5 1⁄4	8 1⁄2	9⁄16	6 1⁄2	6								

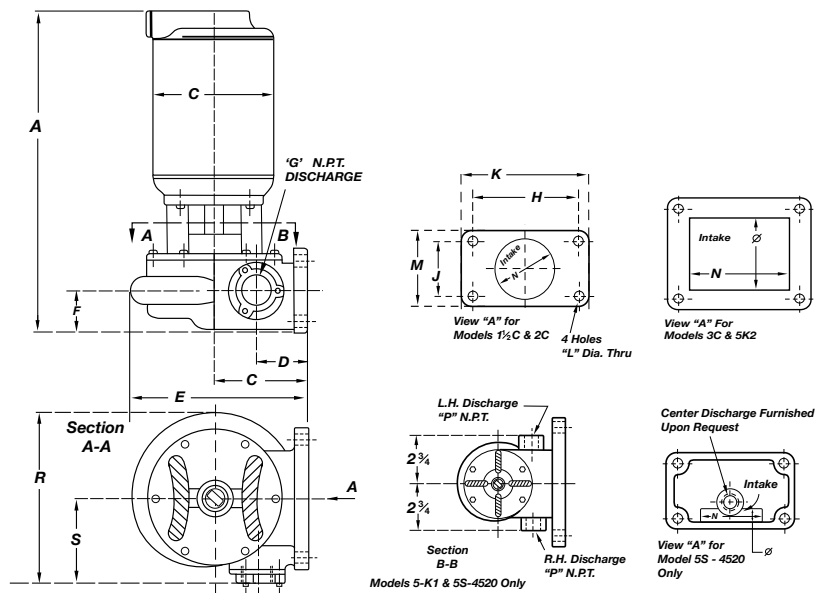
Flange Mount Seal Type Pumps Dimensions and Capacities

GUSHER- RUMACO FLANGE MOUNTED PUMPS

Flange-Mounted Gusher-Rumaco pumps are equipped with a self-adjusting seal, which makes them ideal for mounting at or below liquid level. These pumps are normally used in applications where the reservoir is built into the machine base and where space is a problem. *These pumps can be converted into a pipe inlet type by use of the intake adapter plates.*

CAUTION

These pumps should not be operated dry as this will injure the seal. Where excessive amounts of abrasives are present in the liquid to be pumped, we suggest the use of a Gusher vertical type pump.



DIMENSIONS AND CAPACITIES

1725 R.P.M. (Select Pump By Use of the First Three Columns) Dimensions in Inches																					
MAX. HEAD IN FEET	RATED H.P. HD.	RATED H.P. GPM	CURVE NO.	MODEL	H.P.	A	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S
18	16	33	34	1½ C	¼	13 ⅜	6 ⅞	2¾	8¾	2¼	5	6¼	3¼	7½	⅞	4½	3	—	1 or 1¼	7⅞	3⅝
18	11	84	34	1½ C	⅓	13 ⅜	6 ⅞	2¾	8¾	2¼	5	6¼	3¼	7½	⅞	4½	3	—	1 or 1¼	7⅞	3⅝
17	9	73	35	2C	½	16 ⅞	6 ⅞	2¾	9 ½	2¼	5	6¼	3¼	7½	⅞	4½	4½	—	1 or 1¼	9	4 ½
31	11	83	35	2C	¾	17 ⅞	6 ⅞	2¾	9 ½	2¼	5	6¼	3¼	7½	⅞	4½	3½	—	1 or 1¼	9	4 ½
28	24	90	36	3C	1	21 ⅞	7 ⅞	3¼	10¼	3¼	5¾	7¼	5¼	8½	⅞	6½	6	4	2½	9 ⅞	4 ⅞
28	15	180	36	3C	1½	21 ⅞	7 ⅞	3¼	10¼	3¼	5¾	7¼	5¼	8½	⅞	6½	6	4	2½	9 ⅞	4 ⅞
28	4	235	36	3C	2	21 ⅞	7 ⅞	3¼	10¼	3¼	5¾	7¼	5¼	8½	⅞	6½	6	4	2½	9 ⅞	4 ⅞
9	0	14	32	5S-4520	1/10	11½	5⅝	2	6 ⅞	1⅝	4	6¼	3¼	7½	⅞	4½	3⅝	23/32	½ or ¾	4⅞	—
	2	17	32	5K2	1/10	11 ⅞	5⅝	1¾	5⅝	1 ⅞	3½	3	1¾	3⅝	1 ⅞	2⅝	2¼	1⅝	½ or ¾	4⅞	—
3450 R.P.M.																					
10	44	20	38	5S-4520	1/10	11½	5⅝	2	6 ⅞	1⅝	4	6¼	3¼	7½	⅞	4½	3⅝	23/32	½ or ¾	4⅞	—
10	8	34	41	5S-4520	¼	12⅜	5⅝	2	6 ⅞	1⅝	4	6¼	3¼	7½	⅞	4½	3⅝	23/32	½ or ¾	4⅞	—
29	15	24	37	5-K2	1/4	12⅝	5⅝	3¾	5⅝	1 ⅞	3½	3	1¾	3⅝	1 ⅞	2⅝	2½	1⅝	½ or ¾	4⅞	—
39	20	25	35	5S-4520	½	14 ⅞	5⅝	2	6 ⅞	1⅝	4	6¼	3¼	7½	⅞	4½	3⅝	23/32	½ or ¾	4⅞	—
32	20	59	37	1 ½ C	½	15¾	6 ⅞	2¾	8¾	2¼	5	6¼	3¼	7½	⅞	4½	3	—	1 or 1¼	7⅞	3⅝
42	30	54	37	1 ½ C	¾	16 ⅞	6 ⅞	2¾	8¾	2¼	5	6¼	3¼	7½	⅞	4½	3	—	1 or 1¼	7⅞	3⅝
42	7	84	37	1 ½ C	1	19 ⅞	7 ⅞	2¾	8¾	2¼	5	6¼	3¼	7½	⅞	4½	3	—	1 or 1¼	7⅞	3⅝
68	46	84	39	2C	1½	18¾	7 ⅞	2¾	9½	2¼	5	6¼	3¼	7½	⅞	4½	3½	—	1 or 1¼	9	4½
81	10	130	39	2C	2	19¾	7 ⅞	2¾	9½	2¼	5	6¼	3¼	7½	⅞	4½	3½	—	1 or 1¼	9	4½
81	20	145	39	2C	3	20¼	9⅜	2¾	9½	2¼	5	6¼	3¼	7½	⅞	4½	3½	—	1 or 1¼	9	4½
68	62	110	40	3C	3	22 ⅞	9⅜	3¼	10¼	3¼	5¾	7¼	5¼	8½	⅞	—	6	4	2½	9 ⅞	4 ⅞
119	60	160	39	2C	5	20¼	9⅜	2¾	9½	2¼	5	6¼	5¼	7½	⅞	4½	3½	—	1 or 1¼	9	4½
88	39	290	40	3C	5	23 ⅞	9⅜	3¼	10¼	3¼	5¾	7¼	5¼	8½	⅞	6½	6	4	2½	9 ⅞	4 ⅞
88	4	415	40	3C	7½	24 ⅞	10⅜	3¼	10¼	3¼	5¾	7¼	5¼	8½	⅞	6½	6	4	2½	9 ⅞	4 ⅞

Dimensions are for 230/460 V., 60 Cy., 3Ph. Motors. Dimensions related to Motor vary with Motor Mfg. 208/220/440 V., 50/60 Cy. -- 220/380 V., 50 Cy., & 550 V., 50/60 Cy. Same dimensions as 230/460 V., 60 Cy. -- except Single Phase.

Above Plate Discharge Coolant Pump

Applications

- Machine Tool Cooling Applications

Pump Features

- Economical
- Above Plate Discharge Feature
- Rugged Single-Shaft Design
- Fits Shallow Sumps
- Single Phase or 3 Phase Motors Available
- Lightweight Aluminum design



11029 Immersible Type



Applications

- Machine Tool Hydraulic Coolant
- High Volume Transfer

Pump Features

- Rugged Cast Iron Construction
- High Speed Impeller
- One Piece Shaft
- Available in Variable Lengths
- Low and High Speed Motors Available in Single Phase or 3 Phase...3/4 to 15hp

Stainless Steel Vertical Immersion Series

Applications

CNC lathe coolants, grinding machines, processing centers, heat exchangers, industrial heating equipment, reverse osmosis filtering, golf courses, agriculture, high rise buildings, pools and car washes

Operating Conditions

Clean, non-explosive liquid without solid grains and fibres. Can be used for conveying water, cooling water solutions and cutting fluids.

Liquid Temperatures:

Normal temperature type : $-15 \sim +70^{\circ}\text{C}$

Hot water type : $+70 \sim 120^{\circ}\text{C}$

Pump Features

Non-self priming multi-stage centrifugal pump installed with standard TEFC motors. The motor shaft is directly connected to the pump shaft through a coupling. According to the requirements, the pump can be equipped with intelligent monitoring, which protects the pump from running dry, phase loss and overloads. In order to meet the requirement of the installation and depth of the water tank and vessel, pumps can be provided with empty body cavities to change the length of the pump. The length for the different number of stages are shown in the size and weight tables for each GMVCP/GMVCPF Series.

Motor

The standard motors are TEFC 2pole, 3450 RPM.

Junction boxes are equipped with terminal strips.

Protection Class: IEC - IP55 TEFC

Insulation Class: F Standard 60 Hz Voltages: 3 220
230/346 - 440V

3 220- 255/380 - 440V

3 220 - 277/380 - 480V

Motors for other voltages can be supplied according to the requirement. Single phase motors with $0.37 \sim 2.2\text{kW}$ are available.



Max. Ambient Temperature

If the pump operates in ambient temperature conditions higher than 40°C , or under altitudes higher than 1000m, motor cooling characteristics will be affected, and the motor output power P2 will be decreased to a certain extent. If the pump is operated under the above conditions, larger horsepower ratings will be required.

Machine Tool Tank Units



High Pressure

Gusher manufactures Tank Units specially designed and engineered for use in conjunction with the Gusher multi-stage high-pressure immersion line of pumps, as well as the screw pump.

Economy

The Gusher self-priming immersible coolant pump is an exceptional value, shown with the Gusher Tank unit. Pumps are available in 50 hz as well as 60hz, and come with either 1 or 3 phase motors.



Custom Models

Gusher has the ability to manufacture custom machine tool tank units for any unique or challenging coolant and pumping need.





A RUTHMAN COMPANY

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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 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.

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www.Fulflo.com

Nagle Pumps

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RUTHMAN
Engineering Pump Solutions™

RC19-012/03-20