



A RUTHMAN COMPANY  
www.gusher.com

# GUSHER®

“Quality Under Pressure”

## Machine Tool Tank Units

For  
General,  
High Pressure  
and Custom  
Industrial Coolant  
Solutions

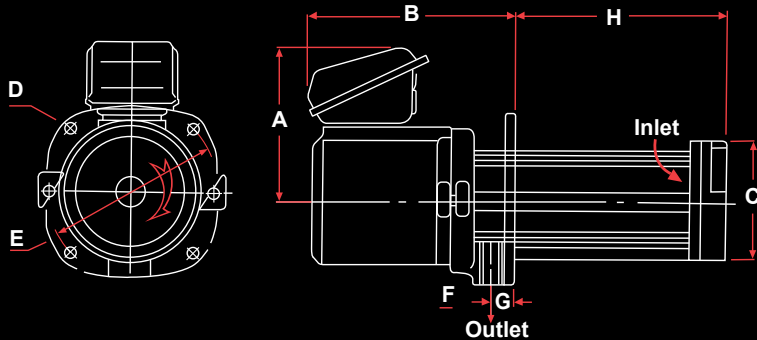


Ruthman...Another Word for Innovation



# Gusher Tank Units **Economy**

## T-VBV SERIES LOW COST SELF-PRIMING COOLANT PUMPS AND TANK UNITS



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.

### SPECIFICATIONS

MODEL	HP	A	B	C	D	E	F	G	H					FLOW RATE LITRE		HEAD METER
														EMULSION	COOLING OIL	
VBV-18-100/180	1/8	110	150	90	7	128	3/8"	18	100	130	150	180		25	16	2
VBV-16-160	1/6	110	150	100	7	128	3/8"-1/2"	18	150	130	150	180		12	25	2
VBV-14-150/270	1/4	125	180	120	7	158	1/2"	24	150	180	200	240	270	60	45	2
VBV-12-180/250	1/2	135	225	135	9	170	3/4"	28	180	250				120	90	4
VBV-34-240/280	3/4	135	255	150	9	185	1"	28	240	280				185	140	4
VBV-10-240/280	1	135	275	150	9	135	1"	28	240	280				240	190	4



The Gusher T-VBV .25 hp Economy

The Gusher T-VBV .125 hp Economy





# Gusher Tank Units High Pressure

The Gusher **"QUALITY UNDER PRESSURE"** motto is exemplified here with this line of Tank Units specially designed and engineered for use in conjunction with the **Gusher** high-pressure immersion line of pumps, as well as the now available screw pump.



50 Gallon 11019 AVD-A



50 Gallon GMVCV P2-150



21 Gallon TPHK8 T6-3



16 Gallon TPK2T5-5

## THE GUSHER LINE OF STAINLESS STEEL VERTICAL IMMERSION PUMPS

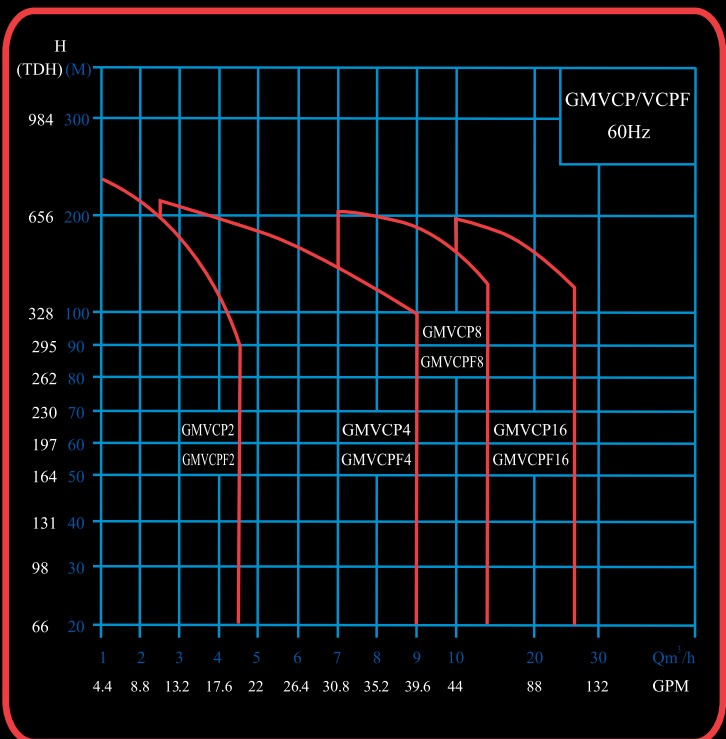


These pumps are non-self priming multi-stage centrifugal pumps installed with standard TEFC motors. The motor shaft is directly connected to the pump shaft through the coupling.

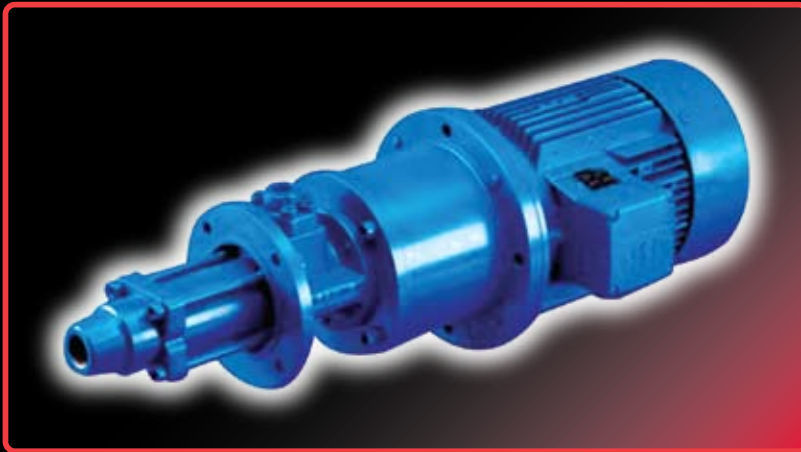
Used for conveying cooling liquids, lubricating liquids, condensed water, machine tool coolant, industrial cleaning solvents, or any applications where immersed pumps are suitable.

- Available capacities up to 400 GPM
- Up to 300 PSI
- Flow Rate up to 150

## TYPICAL HIGH PRESSURE PERFORMANCE RANGE AT 60HZ



## THE GUSHER LINE OF SCREW PUMPS



### Working conditions and materials

Flow rates:	1 to 160 gpm.
Max. pressure:	2000 psig.
Viscosity:	From 1 cSt.
Temperature:	Up to 140° F.
Installation:	Dry or wet-well.
Case:	EN-GJS-400.
Coats:	EN-GJS-400, polymer coating, other materials or treatments.
Spindles:	Steel, nitrided.
Filtration:	Max. 70 µm.

For high pressure cooling lubricants you can benefit from the advantages of a **Gusher** screw pump. The pump delivers continuously with a low pulsation rate and low noise level. Thanks to the innovative design, particularly in regards to the case coatings, this pump offers many advantages when pumping water soluble coolant emulsions. The **Gusher** screw pump is rated up to **2000 PSI**.

The **Gusher** coolant lubricant screw pump can be designed for dry as well as wet-well installation. For a vertical wet-well installation a mounting plate is available. Customer-specific design solutions are always available.

Technical Data		15-20	32-42	55-74-85	105-118	160-210	235-275
GPM	up to	7	16	32	48	89	122
Pressure	psig up to	2000	2000	2000	2000	2000	2000
Temperature	°F	140	140	140	140	140	140
Viscosity	cSt	from 1	from 1	from 1	from 1	from 1	from 1
Rotation speed	rpm	3500	3500	3500	3500	3500	3500
Positive inlet pressure	psig up to	145	145	145	145	145	145

Dimensions		15-20	32-42	55-74-85	105-118	160-210	235-275
Pressure side	inch	SAE 3/4"	SAE 1"	SAE 1 1/2"	SAE 1 1/2"	SAE 2"	SAE 2 1/2"
Suction side	inch	Thread 1"	Thread 1 1/4"	Thread 2"	Thread 2"	Thread 2 1/2"	SAE 3"
Shaft end	inch	0.75 x 1.38	0.75 x 1.38	1.10 x 1.97	1.10 x 1.97	1.5 x 2.76	1.5 x 2.76
Pilot Diameter	inch	4.92	4.92	6.30	6.30	7.09	7.09
Bracket flange diameter	inch	7.28	7.28	8.22	8.22	10.24	10.24
Total length	inch	15.51	17.64	21.93	23.82	29.45	30.83



# Gusher Tank Units Custom Models

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

**GUSHER** pumps are both rugged and dependable. All units are powder coated for durability and a clean finish.

## GUSHER LAPPER COMPOUND PUMP WITH TANK

- Frequency Control Available
- Custom Tanks Available
- Also used for Viscous Liquids when Delivery needs to be Adjustable



## GUSHER TANK UNIT WITH FLANGE MOUNTED PUMP

- 50 Gallon Capacity
- Dirty Transfer
- Picking up Fluid near the Floor
- Transferring Grinding Residue and Shavings
- Includes Agitator to break down Chips



## GUSHER STAINLESS STEEL TANK UNIT WITH 11019 AVD PUMP

- Available up to 200 gallon capacity
- Pressure up to 400 PSI

## GUSHER LARGE CAPACITY TANK UNIT WITH 7800 SERIES PUMP

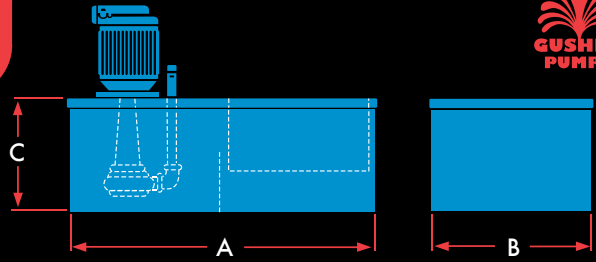
- Capacities up to 400 gallons
- Pressure up to 100 PSI





# Gusher Tank Units Capacities

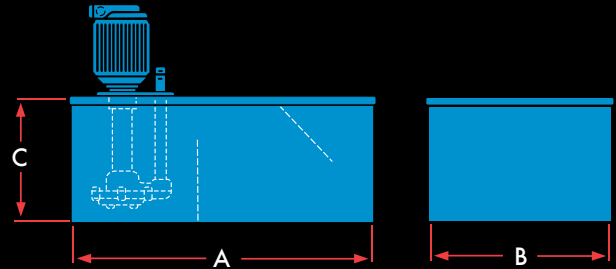
## 10 to 21 Gallon



Tank Dimensions (Inches)

TANK UNIT	CAPACITY (GAL.)	PUMP	HP	RPM	DISCHARGE	PERFORMANCE				IMPELLER	A LENGTH	B WIDTH	C HEIGHT
						Ft. Hd. GPM	4	6	8				
T-10	10	IP3 long	1/25	3000	3/8	4	6	8	10	6055-2	20	12	10
T-16	16	IP3 long	1/10	3450	1/2	2	8	12	14	6055	26 3/4	14 1/2	10
T-21	21	9025 long	1/4	3450	3/4	5	18	25	32	6081	26 3/4	14 1/2	10

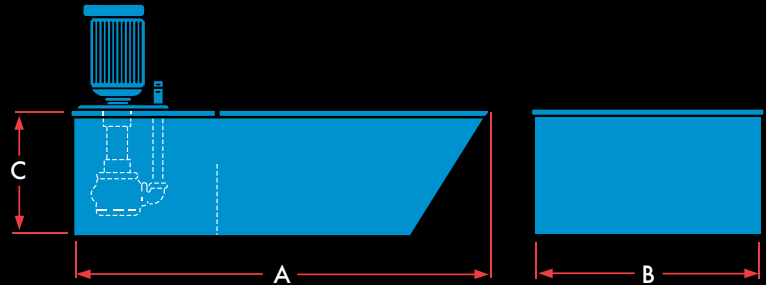
## 32 to 50 Gallon



Tank Dimensions (Inches)

TANK UNIT	CAPACITY (GAL.)	PUMP	HP	RPM	DISCHARGE	PERFORMANCE				IMPELLER	A LENGTH	B WIDTH	C HEIGHT
						Ft. Hd. GPM	6	15	19				
T-32	32	RL-xlong	1/3	1725	1	6	15	19	23	2218	36	15	15
T-38	38	RL-xlong	1/2	1725	1	15	22	24	27	2216-K	37 3/4	14 3/4	16
T-50	50	RL xlong	1/2	1725	1	15	22	24	27	2216-K	36	21 1/8	15

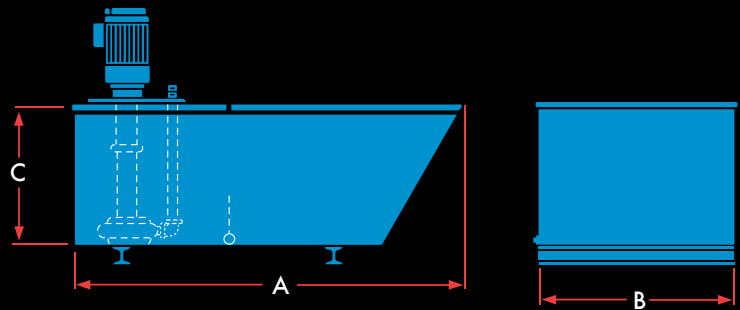
## 80 Gallon



Tank Dimensions (Inches)

TANK UNIT	CAPACITY (GAL.)	PUMP	HP	RPM	DISCHARGE	PERFORMANCE				IMPELLER	A LENGTH	B WIDTH	C HEIGHT
						Ft. Hd. GPM	3	19	27				
T-80	80	11029 long + 5	3/4	1725	1 1/4	3	19	27	30	2292-ETN	50	27 3/4	15

## 100 to 200 Gallon



Tank Dimensions (Inches)

TANK UNIT	CAPACITY (GAL.)	PUMP	HP	RPM	DISCHARGE	PERFORMANCE				IMPELLER	A LENGTH	B WIDTH	C HEIGHT
						Ft. Hd. GPM	3	30	47				
T-100	100	11029 long + 5	1 1/2	3450	1 1/4	3	30	47	57	2292-J	62	28	15
T-150	150	29718 long	1 1/2	3450	1 1/4	3	30	47	57	2292-J	60	28	24
T-200	200	29718 long	2	3450	1 1/4	3	30	47	57	2292-J	77	28	24

# Gusher Tank Units Accessories

## ELECTRICAL CABLE AND SWITCH ASSEMBLY

Available only on 115/230 volt, single phase models through 1/4 hp. The assembly includes a six foot cable and in-line off/on switch. The assembly is prewired to the motor and plug.



## HOSE, NOZZLES AND VALVES

Priced separately, throttle valves, 12" flexible coolant nozzles and six foot neoprene hose and fittings are available for 3/8, 1/2, and 3/4 inch N.P.T. Hoses for 1 inch N.P.T. pipe are also available.

**Note:** Hose, nozzle and valve assembly are included with models T-10-CB, T-21-CB and T-38-CB as standard equipment.

**NYLON FITTINGS ALSO AVAILABLE**

## CASTERS AND LEGS

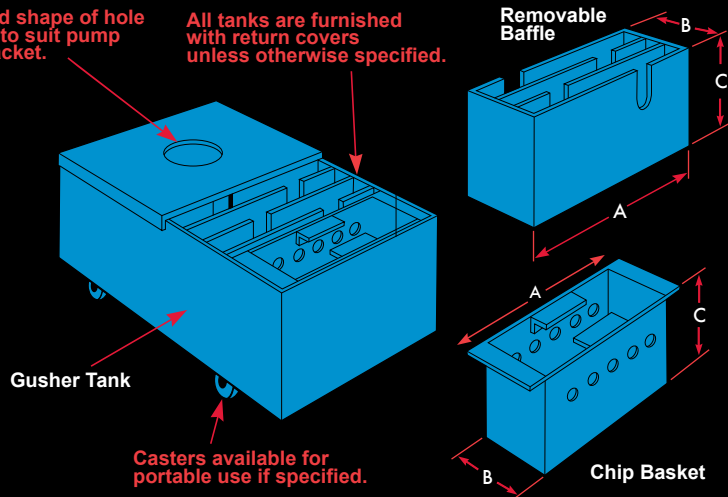
Swivel Casters or I-beam legs are optionally available on models through T-80-F to facilitate portability. On models T-100 through T-200-C, the I-beam legs are included as standard equipment.

## CHIP BASKETS AND BAFFLES

Gusher chip basket and baffle units are offered optionally on the models indicated to entrap virtually all grit and chips through settlement. The units are easily removed for cleaning without disassembly.

Size and shape of hole altered to suit pump and bracket.

All tanks are furnished with return covers unless otherwise specified.



### Removable Baffles

BAFFLE NUMBER	TANK CAPACITY	DIMENSIONS		
		A	B	C
B-16	16, 21	13 <sup>7</sup> / <sub>8</sub> "	7"	9"
B-32	32, 38	14 <sup>5</sup> / <sub>8</sub> "	9"	14"
B-50	50	21 <sup>3</sup> / <sub>8</sub> "	11"	14"
B-80	80, 100	27 <sup>5</sup> / <sub>8</sub> "	12"	14"
B-150	150, 200	27 <sup>5</sup> / <sub>8</sub> "	12"	23 <sup>1</sup> / <sub>2</sub> "

Baffles are available optionally on all models except T-10-CB, T-21-CB, and T-38-CB. On ten and sixteen gallon tank units, a baffle may be used *instead of* a chip basket, but *not in addition* to a chip basket.

To select a baffle, choose the baffle number according to tank capacity. For example, a B-50 baffle is used on a T-50 tank unit, however, a B-50 baffle is used in both T-80 series and T-100 tank units. A B-150 baffle is used in T-150 and T-200 tank units.

### Chip Baskets

BASKET NUMBER	TANK CAPACITY	DIMENSIONS		
		A	B	C
CB-10	10	11 <sup>1</sup> / <sub>2</sub> "	8"	6"
CB-16	16, 21	13 <sup>3</sup> / <sub>4</sub> "	10"	6"
CB-32	32, 38	14 <sup>1</sup> / <sub>2</sub> "	10"	6"
CB-50	50	21 <sup>3</sup> / <sub>8</sub> "	10"	6"
CB-80	80-100 150, 200	27 <sup>1</sup> / <sub>2</sub> "	14"	6"

Chip baskets are available optionally on all models except T-10-CB, T-21-CB, and T-38-CB. On these models, the chip baskets are included as standard equipment. On ten and sixteen gallon tank units, a chip basket may be used *instead of* a baffle but *not in addition* to a baffle.

To select a chip basket, choose the basket number according to tank capacity. For example, A CB-10 basket is used in a T-10 tank unit, however a CB-80 basket is used in a T-80, T-100, T-150 and T-200 tank unit.



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## Ruthman... Another Word for Innovation



It began in 1913, servicing mechanical components of the steamboats on the Ohio River. The company founder, Alois Ruthman, was a man of vision and saw part of the future of the company was in the development of a reliable industrial pump.

In 1924, with the conception of the first vertical ball bearing sealless centrifugal pump, Ruthman Pump and Engineering furthered the design on a unit with a one piece motor driven shaft. The pump was called "Gusher", giving birth to the trade name Gusher Pumps, and the coining of the term "coolant pump".

Wanting to carry on the tradition of quality and reliability started by his father, Thomas R. Ruthman joined the company in 1949. In the early 1990's Thomas R. Ruthman's son, Thomas G. Ruthman joined the company, continuing this same tradition. Maintaining the reputation of Gusher Pumps by innovation and customer service, the company has grown to service companies worldwide.

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