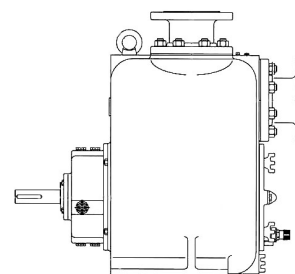




## PRODUCT BULLETIN MODEL SST SELF PRIMER

Since 1935, American-Marsh has manufactured high quality and durable self-primer pumps. These products incorporate features that you have asked for. Oil lubricated bearings, oil lubricated mechanical seal and a large cover plate for inspection and service of the impeller, mechanical seal, wear plate and suction check valve. All models feature completely removable rotating assemblies that allow for quick replacement and inspection.



### Material Specifications

CONSTRUCTION	PART				
	VOLUTE	IMPELLER	WEAR PLATE	SHAFT	MECHANICAL SEAL
Ductile Iron Fitted	Cast Iron	Ductile Iron	Ductile Iron	420 SS	Tungsten/Tungsten/Viton
Novolloy Fitted	Cast Iron	Novolloy	Novolloy	420 SS	Tungsten/Tungsten/Viton
Bronze Fitted	Cast Iron	Bronze	Bronze	420 SS	Tungsten/Tungsten/Viton
316 SS Fitted	Cast Iron	316 SS	316 SS	17-4 PH SS	Tungsten/Tungsten/Viton
Cd <sub>4</sub> MCu Fitted	Cast Iron	Cd <sub>4</sub> MCu	Cd <sub>4</sub> MCu	17-4 PH SS	Tungsten/Tungsten/Viton
All Novolloy	Novolloy	Novolloy	Novolloy	420 SS	Tungsten/Tungsten/Viton
All Bronze	Bronze	Bronze	Bronze	17-4 PH SS	Tungsten/Tungsten/Viton
All 316 SS	316 SS	316 SS	316 SS	17-4 PH SS	Tungsten/Tungsten/Viton
All Cd <sub>4</sub> MCu	Cd <sub>4</sub> MCu	Cd <sub>4</sub> MCu	Cd <sub>4</sub> MCu	17-4 PH SS	Tungsten/Tungsten/Viton

### MODEL SST PRONTO-PRIME SPECIFICATIONS

**Casing:** The casing is constructed of high tensile cast iron or other specified material. It is of the self primer volute type, carefully and accurately proportioned to permit smooth flow and to convert high velocity energy of the fluid as it leaves the impeller into pressure. Suction and discharge nozzles are cast integral with the volute. An integral check valve on the suction allows for very quick re-prime. The casing has cast integral feet standard and the coverplate has a standard pressure relief valve.

An oversized cleanout plate is located on the from of the casing for service and inspection. The impeller, wear plate, mechanical seal and suction check valve can be serviced through this cover plate without the need to disturbe suction and discharge connections. Oversized fill ports as well as vent and drain openings are provided. To protect the pump and system piping, a standard pressure relief valve is located on the cleanout plate.

**Impeller:** The impeller is of the semi-open, solids handling type, casted in one piece of cast iron or other specified material. All impellers are dynamically balanced prior to assembly and all impellers are designed to pump large spherical solids. Impellers have back pump out vanes standard on the back side of the impeller to reduce material from building up behind the impeller.

**Wear Plate:** An oversized and heavy duty front wear plate is standard to maintain close running clearances. The wear plate is easily replacable minimizing pump downtime.

**Shaft:** The shaft is of high strength stainless steel or, ground to accurate dimensions and polished to a smooth surface. It is designed for extra stiffness to avoid all critical speeds in operation. The shaft is threaded internally on the outboard end allowing the use of belt drive accessories without any additional modification to the pump.

**Power Frame:** The power frame is constructed of high tensile cast iron or other specified material and provides support for the inboard and outboard bearings. Each bearing is designed to carry all thrust and radial loads encountered by the pump. The outboard beaing is oversized standard for use with belt drive systems. The power frame has an integral oil sump that provides oil for lubrication to each bearing and an oil level eye is provided standard on the power frame to visually indicate the oil level. Running clearances can be re-adjusted with adjustment screws on the power frame to dial back factory running tolerances and efficiencies easily and effortlessly.

**Mechanical Seal:** The seal chamber is sized for a heavy-duty, front loading cartridge mechanical seal. The cartridge mechanical seal is constructed of a tungsten carbide rotary face, a tungsten carbide stationary face and viton elastomers standard. Other mechanical seal types are available upon request. The entire seal assembly is oil lubricated to ensure long life and durability.

**INDUSTRIAL**  
Pulp & Paper, Steel Mill, Feed Lot,  
Manufacturing, Rendering Plant

**COMMERCIAL**  
Jobsite De-watering, Mobile

**MUNICIPAL**  
Lift Station, Sewage, Heavy Solids,  
Mobile

**PRODUCT BULLETIN**  
**MODEL SST SELF PRIMER**  
**PRONTO-PRIME**

# 490 SERIES SST BARE PUMP

## SUPPLEMENT DRAWINGS ATTACHED WHEN LISTED BELOW

## AVAILABLE FLANGES (ANSI B16.5)

### SUCTION

CLASS 150 FF	<input type="checkbox"/>	NPT	<input type="checkbox"/>
CLASS 150 RF	<input type="checkbox"/>		<input type="checkbox"/>
SPECIAL			<input type="checkbox"/>

### DISCHARGE

CLASS 150 FF	<input type="checkbox"/>	NPT	<input type="checkbox"/>
CLASS 150 RF	<input type="checkbox"/>		<input type="checkbox"/>
SPECIAL			<input type="checkbox"/>

## OPTIONAL TAP CONNECTION

TAP	REQUIRED SIZE	
I		CASING DRAIN
II		SUCTION NOZZLE CONNECTION
III		DISCHARGE NOZZLE CONNECTION
IV		AUXILIARY CONNECTION
V		STUFFING BOX
VI		BACK DRILLED SEAL FLUSH CONNECTION
VII		BOTTOM TAP IN STUFFING BOX

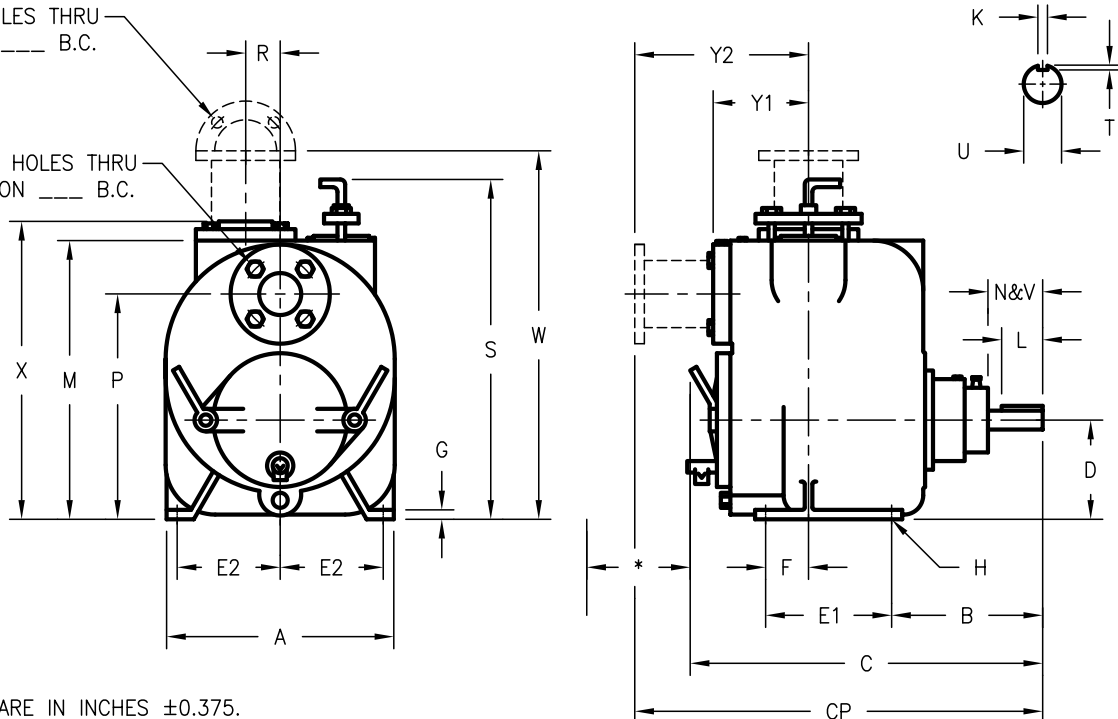
	A	B	C	CP	D	E1	E2	F	G	H	K	L
2X2-6 SST	12.14	9.79	21.53	23.30	5.96	6.42	5.53	2.12	0.75	0.55	0.38	3.75
3X3-9 SST	17.00	11.19	26.31	28.75	7.50	9.00	7.75	3.00	0.75	0.69	0.38	3.00
4X4-10 SST	19.75	11.56	30.25	32.00	8.75	11.00	9.00	3.06	1.00	0.69	0.38	3.50
6X6-12 SST	22.75	11.56	31.56	25.52	10.13	11.00	10.38	3.06	1.06	0.69	0.38	3.50
	M	N&V	P	R	S	T	U	W	X	Y1	Y2	*
2X2-6 SST	15.55	4.06	12.51	2.75	21.06	0.19	1.50	20.50	16.92	5.55	9.21	18.00
3X3-9 SST	21.00	4.00	17.00	2.75	25.81	0.19	1.50	27.06	22.25	7.31	11.56	18.00
4X4-10 SST	24.38	5.00	19.50	2.75	29.19	0.19	1.50	29.25	25.75	8.94	12.50	18.00
6X6-12 SST	28.25	5.00	22.38	2.75	33.56	0.19	1.50	35.31	29.88	10.58	16.00	18.00

## DISCHARGE:

( ) DIA HOLES THRU  
EQUAL SPACED ON B.C.

## SUCTION:

( ) DIA HOLES THRU  
EQUAL SPACED ON B.C.



## NOTES:

1. ALL DIMENSIONS ARE IN INCHES  $\pm 0.375$ .
2. NOT FOR CONSTRUCTION UNLESS CERTIFIED BY ENGINEERING.
3. (\*) - REQUIRED FOR REMOVAL OF BACK PLATE COVER.

CUSTOMER						P.O. NUMBER	
JOB NAME						TAG NAME	
PUMP SIZE AND MODEL		GPM	TDH	RPM	ROTATION	DISCHARGE POSITION	
MOTOR	HP	FRAME	PHASE	HERTZ	VOLTS	ENCLOSURE	
CERTIFIED FOR			CERTIFIED BY			DATE	

**WARNING**

DO NOT OPERATE THIS MACHINE WITH OUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.

# 490 SERIES SST 8x8-15SST BARE PUMP

## SUPPLEMENT DRAWINGS ATTACHED WHEN LISTED BELOW

## AVAILABLE FLANGES (ANSI B16.5)

### SUCTION

CLASS 150 FF ☐

CLASS 150 RF ☐

SPECIAL ☐

CLASS 300 FF ☐

CLASS 300 RF ☐

SPECIAL ☐

### DISCHARGE

CLASS 150 FF ☐

CLASS 150 RF ☐

SPECIAL ☐

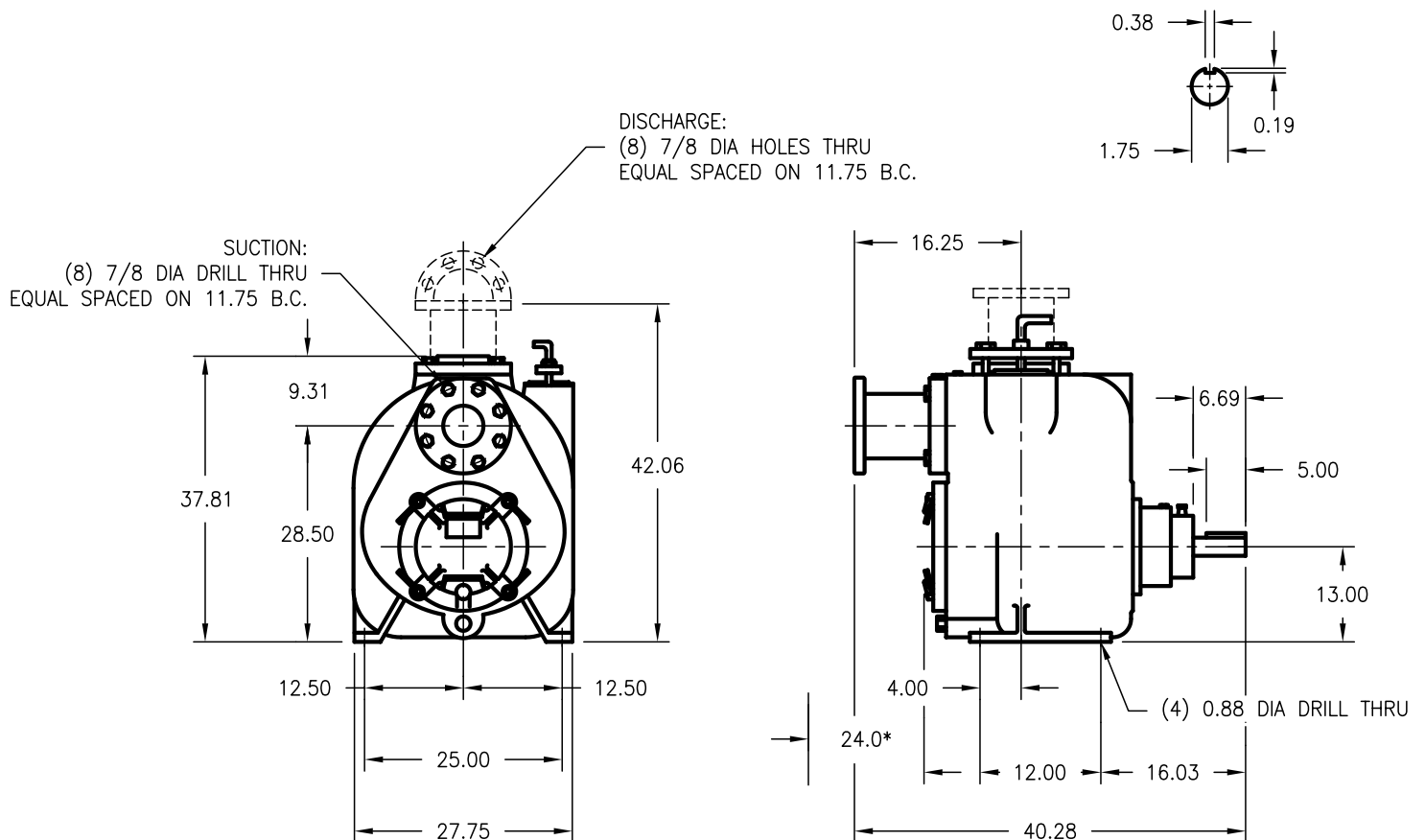
CLASS 300 FF ☐

CLASS 300 RF ☐

SPECIAL ☐

## OPTIONAL TAP CONNECTION

TAP	REQUIRED SIZE	
I		CASING DRAIN
II		SUCTION NOZZLE CONNECTION
III		DISCHARGE NOZZLE CONNECTION
IV		AUXILIARY CONNECTION
V		STUFFING BOX
VI		BACK DRILLED SEAL FLUSH CONNECTION
VII		BOTTOM TAP IN STUFFING BOX



## NOTES:

1. ALL DIMENSIONS ARE IN INCHES  $\pm 0.375$ .
2. NOT FOR CONSTRUCTION UNLESS CERTIFIED BY ENGINEERING.
3. (\*) - REQUIRED FOR REMOVAL OF BACK PLATE COVER.

CUSTOMER						P.O. NUMBER	
JOB NAME						TAG NAME	
PUMP SIZE AND MODEL		GPM	TDH	RPM	ROTATION	DISCHARGE POSITION	
MOTOR	HP	FRAME	PHASE	HERTZ	VOLTS	ENCLOSURE	
CERTIFIED FOR			CERTIFIED BY			DATE	

**⚠ WARNING**

DO NOT OPERATE THIS MACHINE WITH OUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.

# 490 SERIES SST 10x10-15SST BARE PUMP

## SUPPLEMENT DRAWINGS ATTACHED WHEN LISTED BELOW

## AVAILABLE FLANGES (ANSI B16.5)

### SUCTION

CLASS 150 FF ☐

CLASS 150 RF ☐

SPECIAL ☐

CLASS 300 FF ☐

CLASS 300 RF ☐

SPECIAL ☐

### DISCHARGE

CLASS 150 FF ☐

CLASS 150 RF ☐

SPECIAL ☐

CLASS 300 FF ☐

CLASS 300 RF ☐

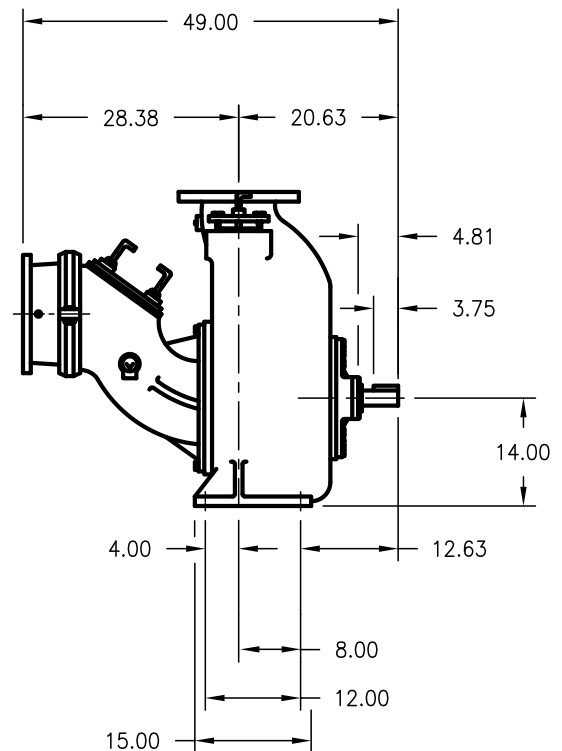
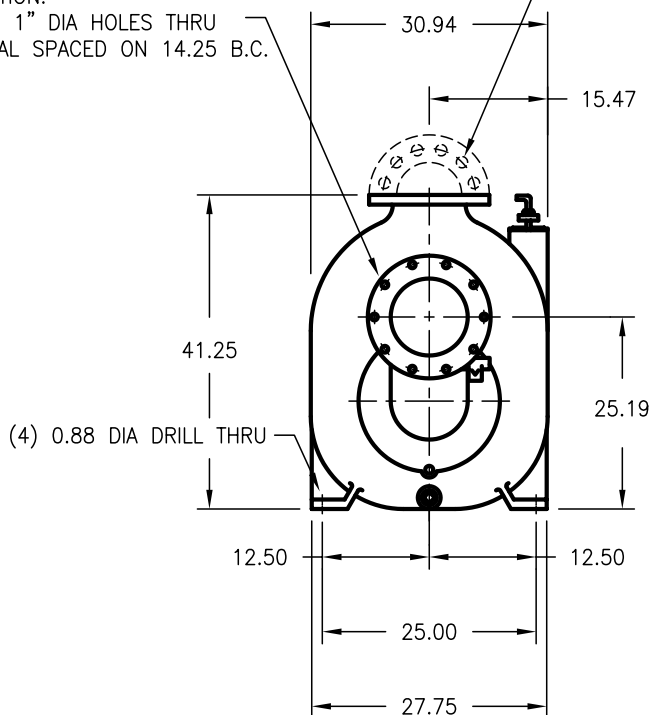
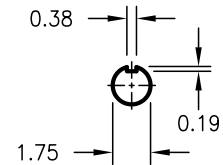
SPECIAL ☐

## OPTIONAL TAP CONNECTION

TAP	REQUIRED SIZE	
I		CASING DRAIN
II		SUCTION NOZZLE CONNECTION
III		DISCHARGE NOZZLE CONNECTION
IV		AUXILIARY CONNECTION
V		STUFFING BOX
VI		BACK DRILLED SEAL FLUSH CONNECTION
VII		BOTTOM TAP IN STUFFING BOX

SUCTION:  
(10) 1" DIA HOLES THRU  
EQUAL SPACED ON 14.25 B.C.

DISCHARGE:  
(12) 1" DIA DRILL THRU  
EQUAL SPACED ON 14.25 B.C.



## NOTES:

1. ALL DIMENSIONS ARE IN INCHES  $\pm 0.375$ .
2. NOT FOR CONSTRUCTION UNLESS CERTIFIED BY ENGINEERING.

CUSTOMER						P.O. NUMBER	
JOB NAME						TAG NAME	
PUMP SIZE AND MODEL		GPM	TDH	RPM	ROTATION	DISCHARGE POSITION	
MOTOR	HP	FRAME	PHASE	HERTZ	VOLTS	ENCLOSURE	
CERTIFIED FOR			CERTIFIED BY		DATE		

**⚠ WARNING**

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# 490 SERIES SST 12x12-18SST BARE PUMP

**SUPPLEMENT DRAWINGS  
ATTACHED WHEN LISTED BELOW**

**AVAILABLE FLANGES (ANSI B16.5)**

**SUCTION**

CLASS 150 FF ☐

CLASS 150 RF ☐

SPECIAL ☐

**DISCHARGE**

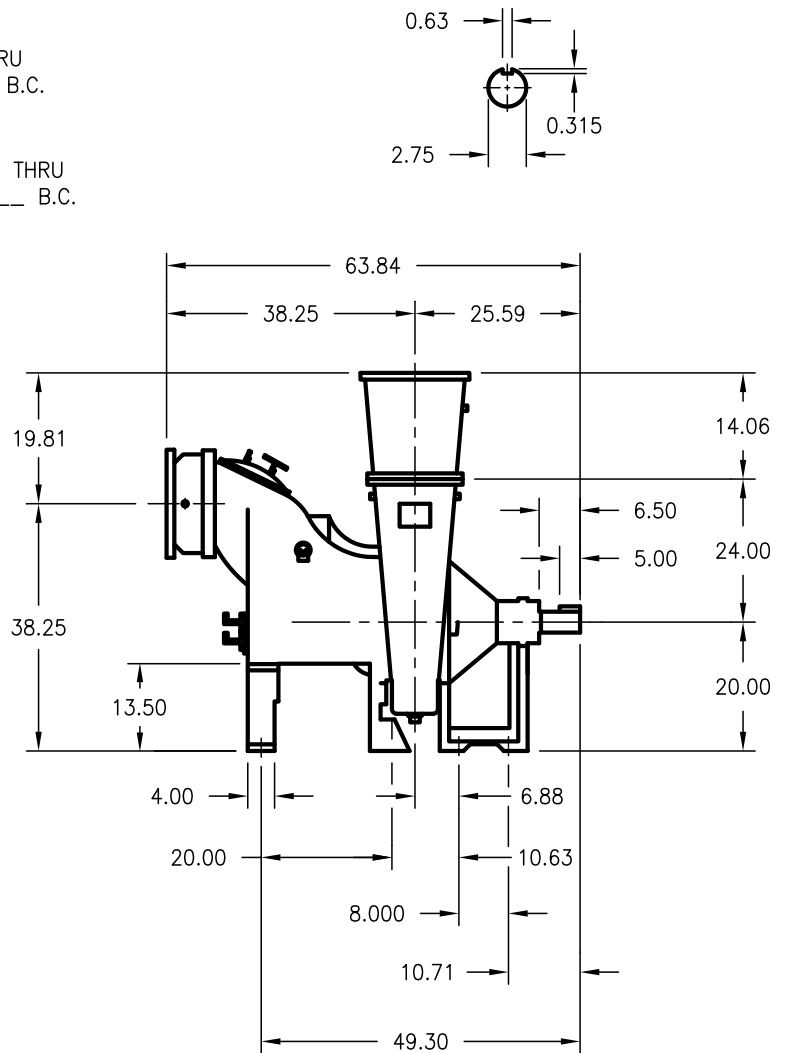
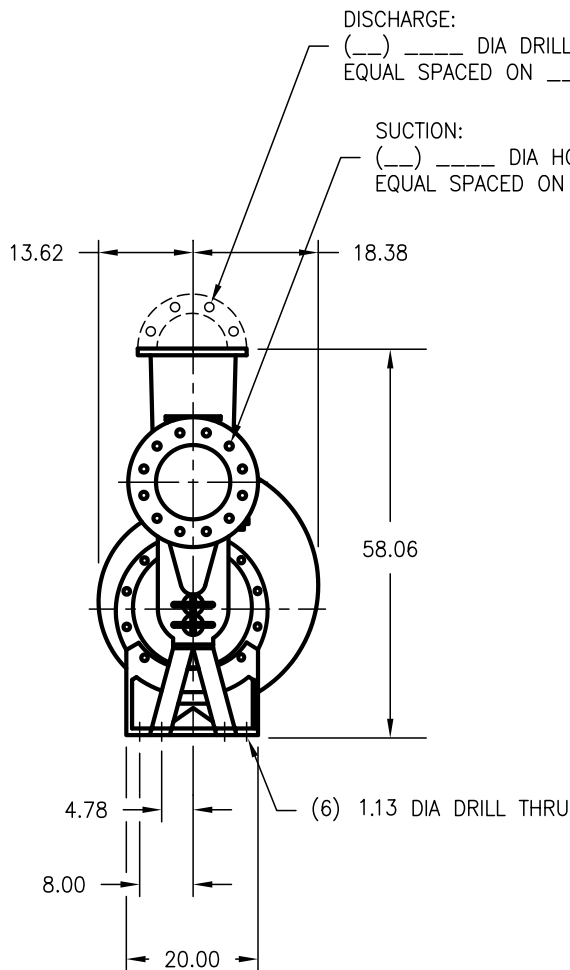
CLASS 150 FF ☐

CLASS 150 RF ☐

SPECIAL ☐

**OPTIONAL TAP CONNECTION**

TAP	REQUIRED SIZE	
I		CASING DRAIN
II		SUCTION NOZZLE CONNECTION
III		DISCHARGE NOZZLE CONNECTION
IV		AUXILIARY CONNECTION
V		STUFFING BOX
VI		BACK DRILLED SEAL FLUSH CONNECTION
VII		BOTTOM TAP IN STUFFING BOX



CUSTOMER					P.O. NUMBER	
JOB NAME					TAG NAME	
PUMP SIZE AND MODEL		GPM	TDH	RPM	ROTATION	DISCHARGE POSITION
MOTOR	HP	FRAME	PHASE	HERTZ	VOLTS	ENCLOSURE
CERTIFIED FOR			CERTIFIED BY		DATE	

**⚠ WARNING**

DO NOT OPERATE THIS MACHINE WITH OUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.