RUSSELL PUMP

Model VA612SS

Tank Mounted, Close Coupled, All Stainless Centrifugal Pump

TYPICAL APPLICATIONS INCLUDE: Condensate Return, Boiler Feed

RUSSELL PUMP AND ENGINEERING
102 W. CHICAGO STREET ALBION, IA 50005
641-488-2319

DESIGN FEATURES

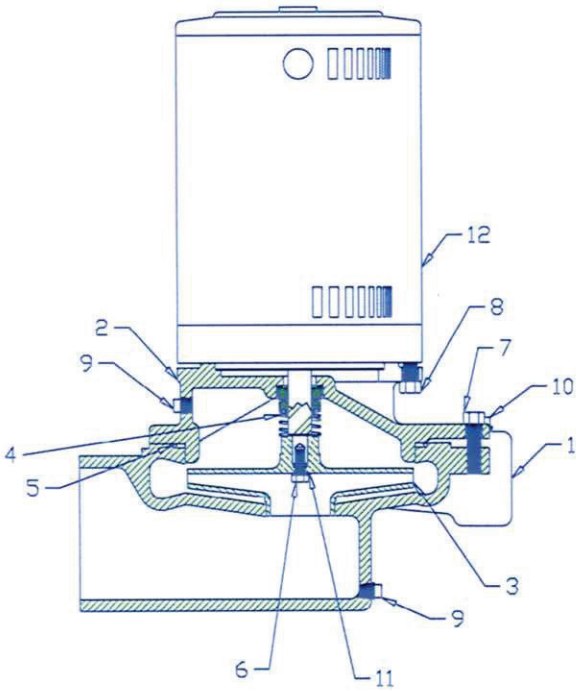
CASING - Constructed of cast 304 stainless steel, 1/8 npt drain port and 1/4 npt discharge tappings are standard. Back pull out design allows the pump to be serviced without disturbing the piping. The volute was designed to maximize hydraulic efficiency.

MECHANICAL SEAL - Type 21 buna-n seal is rated to 225°F and pressure to 175PSI. Carbon seal face mates with the ceramic seat providing years of trouble free service. Alternate seals available upon request.

IMPELLER - The hydraulic design of the impeller maximizes pressure and gpm while minimizing horsepower. The enclosed impeller is made of cast 304 stainless steel.

ADAPTER - The precise machining of the adapter allows for easy assembly of the pump. A 1/8 npt hole is provided if a seal flush line is added. Construction consists of cast 304 stainless steel.

MOTOR - The NEMA 56J motor utilizes a 416 stainless steel shaft. The motor's heavy duty ball bearings withstand axial and radial thrust loads with no problem. Standard Enclosure type is drip proof but alternates are available.

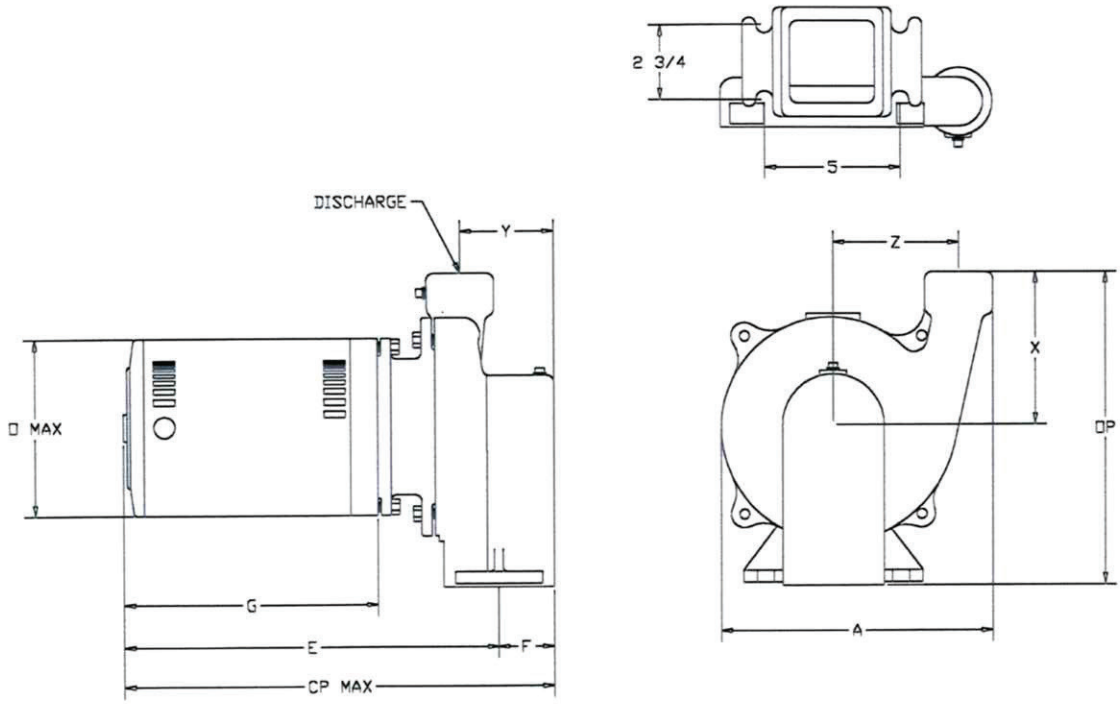


1	CASING VA612SS	304 STAINLESS STEEL	40063	1
2	ADAPTER VA612SS	304 STAINLESS STEEL	40064	1
3	IMPELLER VA612SS	304 STAINLESS STEEL	20006	1
4	MECHANICAL SEAL	BUNA-N	S-100	1
		EPT	S-101	
		VITON	S-102	
5	O-RING CASING	BUNA-N	S-132	1
		EPT	S-133	
		VITON	S-134	
6	CAP SCREW	1/4-28UNF X 5/8 SS	70040	1
7	CAP SCREW	3/8-16 X 1 1/4SS	S-281	4
8	CAP SCREW	3/8-16 X 7/8SS	S-280	4
9	PIPE PLUG	1/8NPT 18-8SS	S-273	5
10	PIPE PLUG	1/4NPT 18-8SS	S-274	2
11	LOCKWASHER	1/4 303 SS	0130197	1
12	MOTOR	NEMA 56J	-	1

NOTE: Single phase units do NOT use the lockwasher and impeller cap screw.

LIMITATIONS

MAXIMUM WORKING PRESSURE	-	175PSI
MAXIMUM GALLONS PER MINUTE	-	120
MAXIMUM HEAD PRODUCED	-	147 FT.
RPM	-	3450
MAXIMUM SEAL TEMP BUNA-N	-	225°
EPT	-	300°
VITON	-	400°
MAXIMUM HORSEPOWER	-	3



THE CHART BELOW IS BASED ON MOTORS UTILIZING THE FOLLOWING CHARACTERISTICS:
3ø □DP 3450RPM 208-230/460 VOLT 60 HERTZ

MODEL	DISCHARGE	A	CP MAX	E	F	G	□ MAX	□P	X	Y	Z
VA612	1 1/4"NPT	10 1/64	18	15 15/16	2 1/16	11 1/4	6 1/2	11 1/2	5 5/8	3 1/4	4 5/8

SPECIFICATIONS

The contractor shall furnish (and install as shown on the plans) a Russell Series VA612SS tank mounted, centrifugal, all stainless pump. Each pump shall have the capacity of _____ GPM when operated at a toal head of ____ feet.

The pump casing shall be radially split, tank mounted with a 1/4 npt discharge gauge tapping included. There shall be a drain port located as low as possible on the suction leg of the pump. The casing design should be of a back pull out type.

The pump is to be furnished with a mechanical seal which incorporates stainless steel parts. Buna-N elastometers, ceramic seat, and carbon seal face shall be standard.

The pump shall be close-coupled to a NEMA C face ____ HP ____ PHASE ____ HERTZ ____VOLTAGE ____ RPM drip proof motor. The motor shall be sized to prevent overloading at the duty point. The motor shall have a stainless steel shaft and sealed bearings.

All external cast parts shall have at least one coat of a high grade baked-on powder coat paint. Each unit shall be checked by the contractor to regulate the correct pressure, voltage, and amp draw.