

RUSSELL PUMP

Model VA512SS

Tank Mounted, Close Coupled, All Stainless
Centrifugal Pump



Typical Applications Include:

Condensate Return, Boiler Feed

Russell Pump and Engineering Inc.
102 W. Chicago Street
Albion, IA 50005
641-488-2319

Design Features

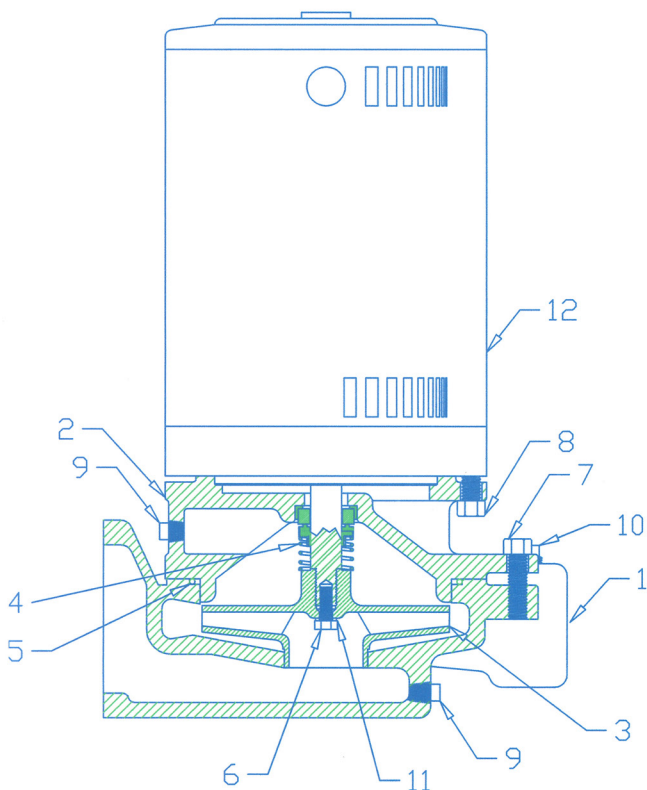
Casing Constructed of cast 304 stainless steel. 1/8 npt drain port and 1/4 npt discharge tapping is standard. Back pull out design allows the pump to be serviced without distributing the piping. The volute was designed to maximize hydraulic efficiency.

Mechanical Seal Type 21 buna-n seal is rated 225°F and pressures 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.

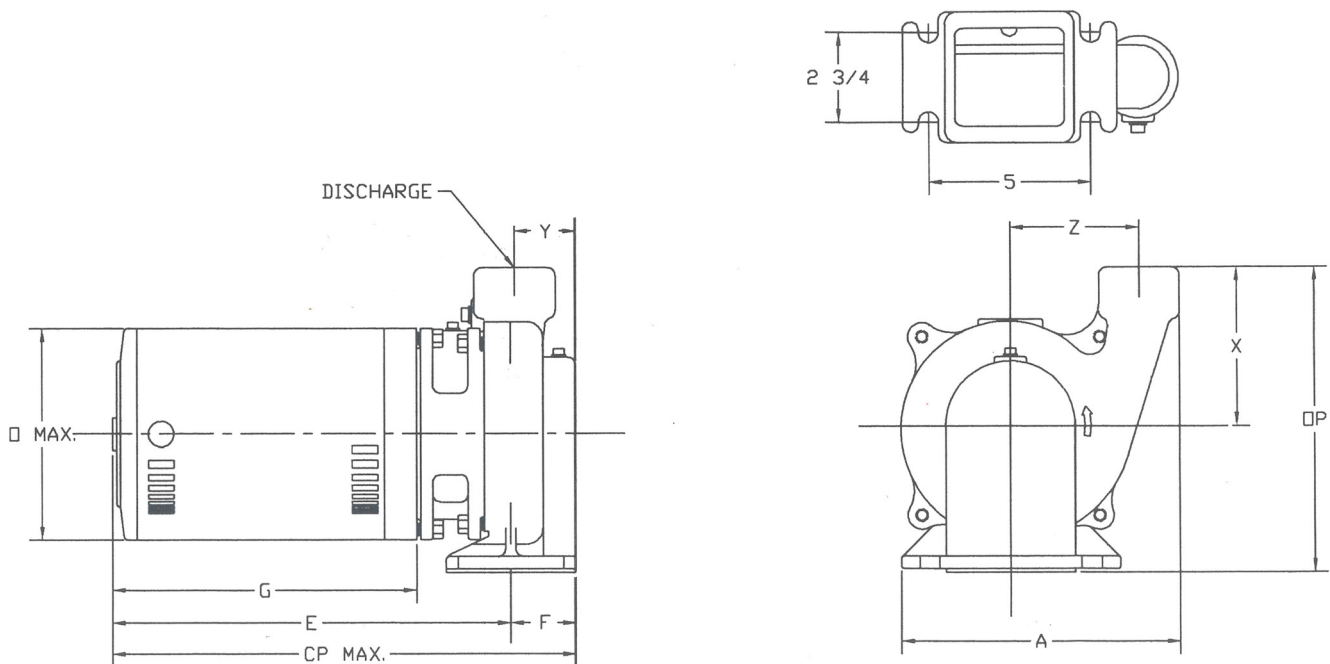


1	CASING VA512SS	304 STAINLESS STEEL	40061	1
2	ADAPTER VA512SS	304 STAINLESS STEEL	30013	1
3	IMPELLER A510SS	304 STAINLESS STEEL	20005	1
4	MECHANICAL SEAL	BUNA-N	S-100	1
		EPT	S-101	
		VITON	S-102	
5	O-RING CASING	BUNA-N	S-109	1
		EPT	S-110	
		VITON	S-111	
6	CAP SCREW	1/4-28UNF X 5/8 SS	70040	1
7	CAP SCREW	3/8-16 X 1 1/4 SS	S-281	4
8	CAP SCREW	3/8-16 X 7/8 SS	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		75
Maximum Head Produced		105 ft.
RPM		3450
Maximum Seal Temp	Buna-N	225°F
	EPT	300°F
	Viton	400°F
Maximum Horsepower		2



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

MODEL	DISCHARGE	A	CP MAX.	E	F	G	Ø MAX.	ØP	X	Y	Z
VA512	1 1/4" NPT	8 19/32	14 9/32	12 9/32	2	9 3/8	6 1/2	9 3/8	4 7/8	1 7/8	3 31/32

Specifications

The contractor shall furnish (and install as shown on the plans) a Russell Series VA512SS tank mounted, centrifugal, all stainless pump. Each pump shall have a the capacity of ____ GPM when operated at a total of _____ feet.

The pump casing shall be radially split, tank mounted with 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 elastomers, ceramic seat, and carbon seal face shall be standard.

The adapter shall be drilled and tapped to allow for the possible addition of a steal flush line.

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.

Each unit shall be checked by the contractor to regulate the correct pressure, voltage, and amp draw.

