RUSSELL PUMP

Model A712

End Suction, Close Coupled, Bronze Fitted, Centrifigal Pump

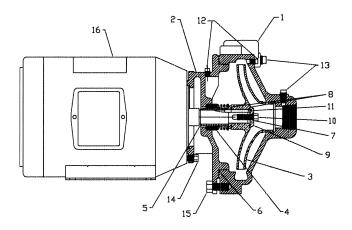


Typical Applications General Purpose, OEM, Boosters, Cooling Towers, Boiler Feed, Process Fluids, HVAC, Irrigation, Hot and Chilled Water Circulation

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

Design Features

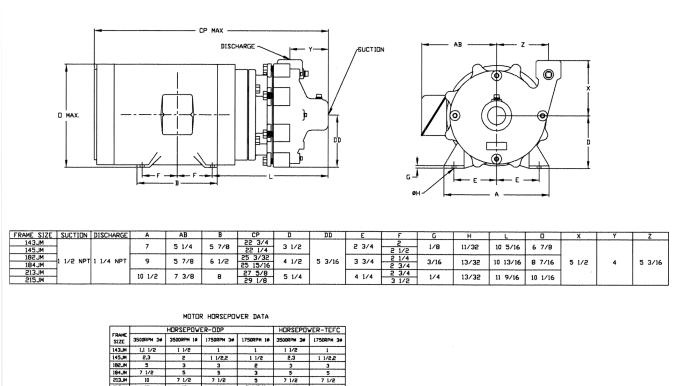
CASING	Constructed as ASTM A48 class 30 cast iron. The discharge can be mounted in any 90° position. Drain and air ports are also positioned every 90°, 1/4 npt suction and discharge tappings are standard. Back pull out design allows the pump to be serviced without disturbing the piping. The volute was designed to maximize hydraulic efficiency.
MECHANICAL SEAL	Type 21 buna-n seal is rated to 225°F and 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 minimiz- ing horsepower. The enclosed impeller is made of cast bronze.
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 ASTM A48 class 30 cast iron.
MOTOR	The NEMA JM frame motor utilizes a high carbon steel shaft. The motor's heavy duty ball bearings withstand axial and radial thrust loads with no problem. Stan- dard enclosure type is dripproof but alternates are available.



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1	CASING A712	CLASS 30 CAST IRON BRASS	40008	1
2	ADAPTER AZ 143-184 M	CLASS 30 CAST IRON	40010	
		BRASS	40013	
3	IMPELLER A712			1
4	MECHANICAL SEAL 143-215JM	BUNA-N EPT	S-103 S-104	1
5	SLEEVE 143-215JM	HEARY	S-105 10000	+
	D-RING CASING	BUNA-N	S-148 S-149	1
			S-150	
7	D-RING WASHER 143-215JM	EPT	S-141 S-142	11
	143-61334	YITEN.	S-143	
8	D-RING IMPELLER 143-215JM	BUNA-N	S-135 S-136	2
Ŭ	143-215JM	VITON	S-137	
9	IMPELLER WASHER	BRASS	10002	1
10	IMPELLER CAP SCREW 143-215JM	3/8-16 X 1 BRASS	75020	1
11	KEY 143-215JM	STAINLESS STEEL	10004	1
<u>I</u> Ş		1/8 NPT BRASS	69845	3
11		3/8-16 X 1 STEEL	19931	141
15	CAP SCREW	1/2-13 X 1 STEEL	19957	8
161	MOTOR	-	-	

Limitations

MAXIMUM WORKING PRESSURE	- 175PSI
MAXIMUM GALLONS PER MINUTE	- 175
MAXIMUM HEAD PRODUCED	- 253 FT.
RPM	- 3500
MAXIMUM SEAL TEMP BUNA-N	- 225°F
EPT	- 300°F
VITON	- 400°F
MAXIMUM HORSEPOWER	- 15



1 1/2,2

7 1/2

	HORSEPO								
3500RPN 30	3500RPM 1#	1750RPN 30	1750RPH 10	3500RPM 3#					
1,1 1/2	1 1/2	1	1	1 1/2					
2,3	2	1 1/2,2	1 1/2	2,3					
-	-	_	-						

7 1/2,10

7 1/2

7 1/2

7 1/2

SPECIFICATIONS

The contractor shall furnish (and install as shown on the plans) a Russell Series A712 close coupled, centrifugal, bronze fitted pump. Each 11/4" x 11/2" pump shall have the capacity of _____ GPM when operated at a total head of _____ feet.

The pump casing shall be radially split, end suction with 1/4 npt suction and discharge gauge tappings included. The casing should be able to accommodate any 90° mounting position. There shall be four drain/air ports drilled and tapped 90° apart. 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 seal flush line.

The pump shall be close coupled to a NEMA C face _____HP ____PHASE _____HERTZ ____VOLTAGE _____RPM dripproof 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.

