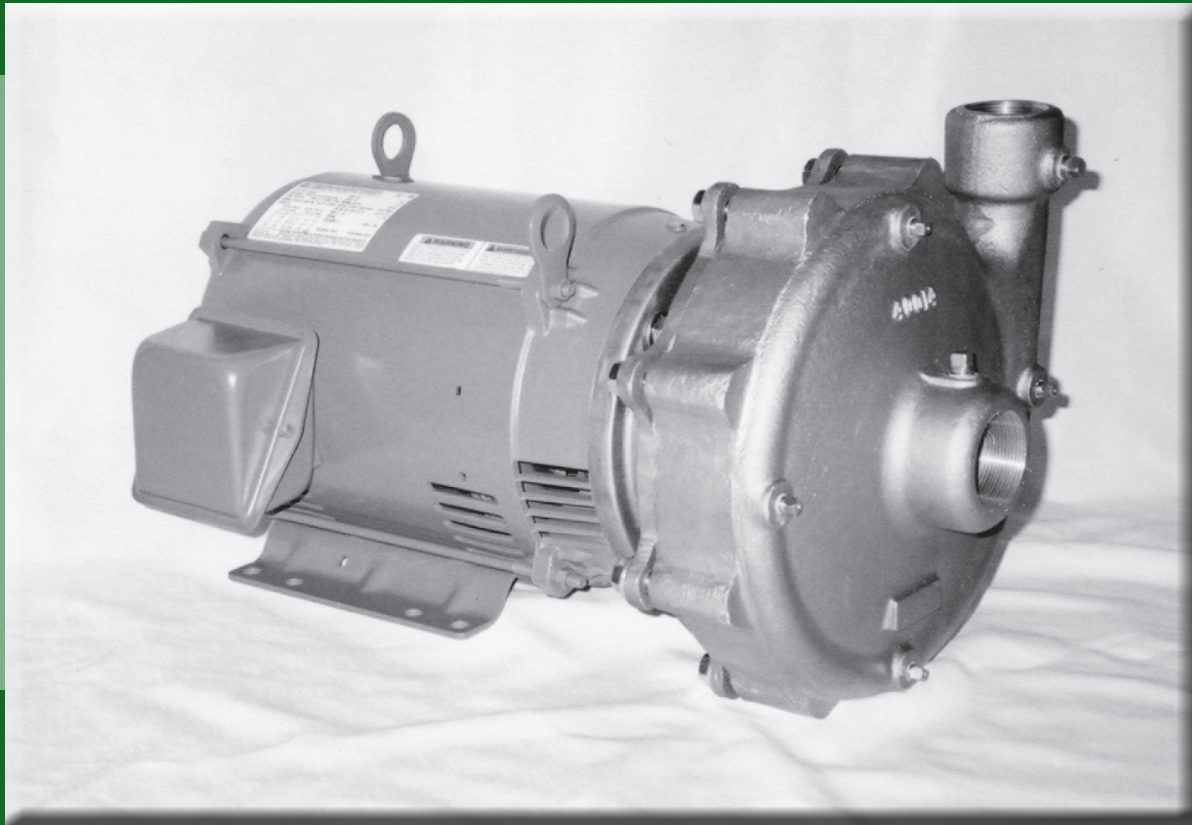


RUSSELL PUMP



Model A915

End Suction, Close Coupled, Bronze Fitted,
Centrifugal 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

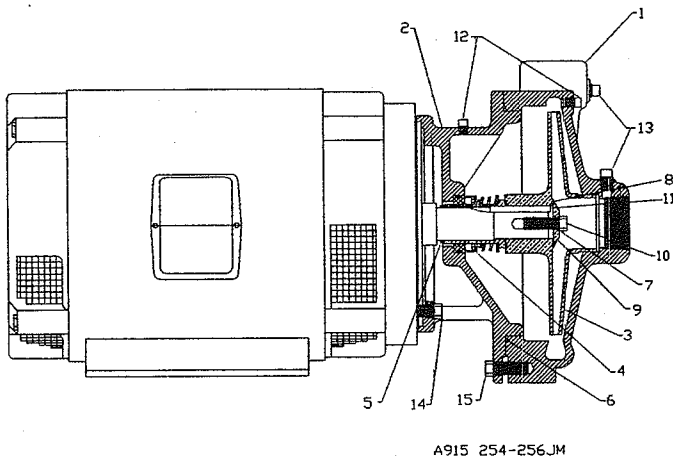
The hydraulic design of the impeller maximizes pressure and gpm while minimizing horsepower. The enclosed impeller is made of cast bronze.

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

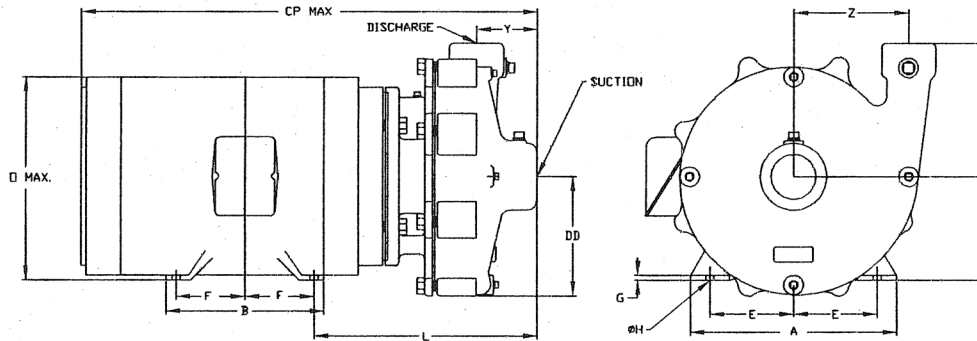
The NEMA JM frame motor utilizes a high carbon steel shaft. The motor's heavy duty ball bearings withstand axial and radial thrust loads with no problem. Standard enclosure type is dripproof but alternates are available.



1	CASING A915	CLASS 30 CAST IRON	40014	1
	ADAPTER A9 143-184 JM	BRASS	40015	
	ADAPTER A9 254-326 JM	CLASS 30 CAST IRON	40017	
2	ADAPTER A9 143-184 JM		40024	1
	ADAPTER A9 254-326 JM	BRASS	40018	
	ADAPTER A9 143-215 JM		40023	
	ADAPTER A9 254-326 JM		40023	
3	IMPELLER A915 143-215 JM	SILICON BRONZE	30005	1
	IMPELLER A915 254-326 JM	SILICON BRONZE	30006	
	MECHANICAL SEAL 143-215 JM	BUNA-N	S-103	
		FPT	S-104	
4	MECHANICAL SEAL 254-326 JM	BUNA-N	S-105	1
		FPT	S-106	
	MECHANICAL SEAL 143-215 JM	VITON	S-107	
		FPT	S-108	
5	SLEEVE 143-215 JM	BRASS	10001	1
	SLEEVE 254-326 JM	BRASS	10001	
	O-RING CASING	BUNA-N	S-164	
		FPT	S-165	
6	O-RING CASING	VITON	S-166	1
	O-RING WASHER 143-215 JM	BUNA-N	S-145	
		VITON	S-143	
7	O-RING WASHER 254-326 JM	BUNA-N	S-145	1
		VITON	S-143	
	O-RING IMPELLER 143-215 JM	BUNA-N	S-146	
		VITON	S-147	
8	O-RING IMPELLER 254-326 JM	BUNA-N	S-148	2
		FPT	S-149	
	IMPELLER WASHER 143-215 JM	VITON	S-140	
	IMPELLER WASHER 254-326 JM	BRASS	10002	
9	IMPELLER WASHER 143-215 JM		10003	1
	IMPELLER WASHER 254-326 JM		10003	
10	IMPELLER CAP SCREW 143-215 JM	3/8-16 X 1 BRASS	75020	1
	IMPELLER CAP SCREW 254-326 JM	1/2-13 X 1 BRASS	75037	
11	KEY 143-215 JM	STAINLESS STEEL	10004	1
	KEY 254-326 JM	STAINLESS STEEL	10005	
12	PIPE PLUG	1/8 NPT BRASS	62845	2
13	PIPE PLUG	1/4 NPT BRASS	62865	2
14	CAP SCREW 143-215 JM	3/8-16 X 1 STEEL	13257	4
	CAP SCREW 254-326 JM	1/2-13 X 1 STEEL	13257	
15	CAP SCREW	1/2-13 X 1 1/4 STEEL	1995B	8
16	MOTOR			

LIMITATIONS

MAXIMUM WORKING PRESSURE	- 175PSI
MAXIMUM GALLONS PER MINUTE	- 225
MAXIMUM HEAD PRODUCED	- 360 FT.
RPM	- 3500
MAXIMUM SEAL TEMP BUNA-N	- 225°F
EPT	- 300°F
VITON	- 400°F
MAXIMUM HORSEPOWER	- 25



FRAME SIZE	SUCTION	DISCHARGE	A	AB	B	CP	D	DD	E	F	G	H	L	Ø	X	Y	Z					
143JM	2 NPT	1 1/2 NPT	7	7 1/16	5 7/8	22 19/32 24 3/32	3 1/2	6 1/16	2 3/4	2	1/8	11/32	10 5/32 10 5/32	7 1/2	6 3/4	3 3/32	5 27/32					
145JM			9	8 1/8	6 1/2	24 15/16 25 15/16	4 1/2		3 3/4	2 1/2	3/16	13/32	10 21/32 10 21/32	9 3/8								
182JM			10 1/2	9 5/16	8	27 15/32 28 31/32	5 1/4		4 1/4	2 3/4	1/4	13/32	11 13/32 11 13/32	11								
184JM			12	11	11	25 13/16 27 9/16	6 1/4		5	3 1/2	1/4	17/32	13 21/32 14 1/8									
213JM																						
215JM																						
254JM																						
256JM																						

MOTOR HORSEPOWER DATA

FRAME SIZE	HORSEPOWER-ODP				HORSEPOWER-TEFC	
	3500RPM 3Ø	3500RPM 1Ø	1750RPM 3Ø	1750RPM 1Ø	3500RPM 3Ø	1750RPM 3Ø
143JM	1 1/2	1 1/2	1	1	1 1/2	1
145JM	2,3	2	1 1/2,2	1 1/2	2,3	1 1/2,2
182JM	5	3	3	2	3	3
184JM	7 1/2	5	5	3	5	5
213JM	10	7 1/2	7 1/2	5	7 1/2	7 1/2
215JM	15	10	10	7 1/2,10	15	10
254JM	20	-	15	-	15	15
256JM	25	-	20	-	20	20

SPECIFICATIONS

The contractor shall furnish (and install as shown on the plans) a Russell Series A915 close coupled, centrifugal, bronze fitted pump. Each 1 1/2" x 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 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.

