

Pump

- Heavy-duty marine bronze pump with 954 bronze stub shaft for sea water
- Precision machined to close tolerances for consistent performance
- Hardware
 - External - Type 300 stainless steel
 - Internal - Type 316 stainless steel
- Enclosed impeller for high efficiency
- Designed for continuous 24/7 operation

Motor

- Totally enclosed fan cooled IP-44 motors meet marine, European and Coast Guard ignition protected requirements
- NEMA Premium Efficiency
- Sealed ball bearings
- Single phase motors must be ordered specifically for either 50 Hz or 60 Hz
- Single-phase capacitor start
 - 50 Hz - 110/220 Volt
 - 60 Hz - 115/230 Volt
- Three-phase - nine lead dual voltage
 - 50 Hz - 190/380 Volt
 - 60 Hz - 230/460 Volt

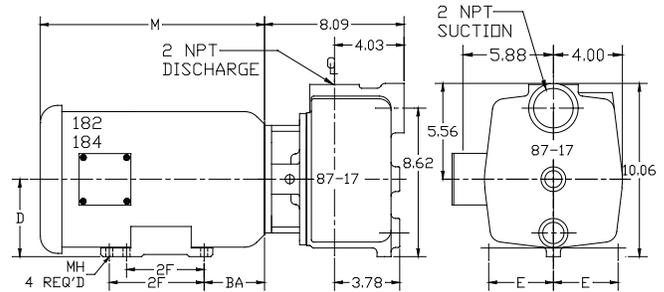
Shaft Seal

- Buna rubber parts, ceramic stationary element, carbon rotating element, seawater stainless steel spring and metal components

As a fire pump: 100 GPM - 40 PSI, up to 50 PSI from a 30 GPM nozzle.

As a bilge pump: to 200 GPM, will self-prime up to 20 feet. Capacity is 100' at 100 GPM @ 20' suction lift, and 200 GPM @ 5' suction lift.

Use as a fire pump on large yachts and commercial vessels. High pressure and high volume. Provides seawater for many shipboard applications. Install with a suitable suction strainer - max. 3/8" openings.



Motor Dimensions

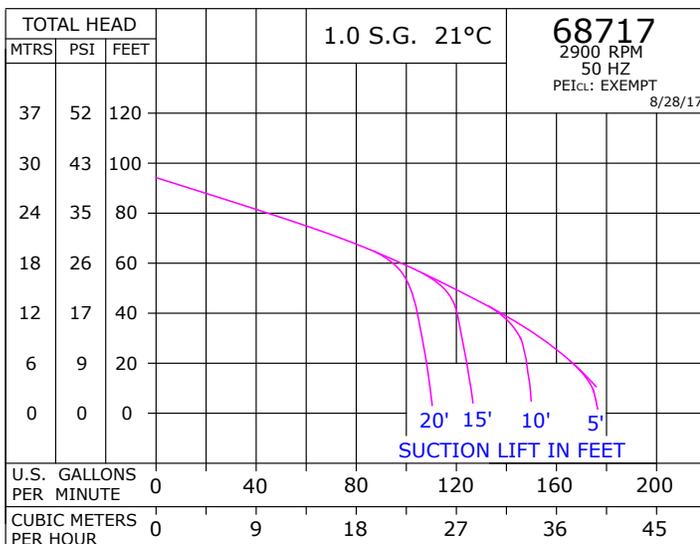
	NEMA	Premium Efficient	JM Frame	TEFC			
HP	Frame	D	E	2F	BA	M	MH
5	JM182	4.50	3.75	4.50	3.50	13.12	0.41

To Prime

- Remove prime plug
- Fill case with water and place suction line under water

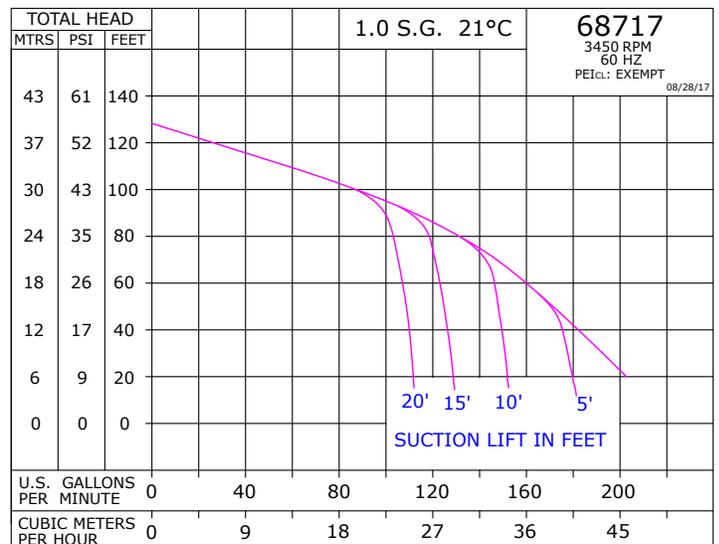
Prime Period

- Close prime plug
- Install vent line in discharge to permit air to escape. Vent line must not be under water
- Start motor. Air should be escaping from vent line
- It can take up to 90 seconds to evacuate all the air from the suction line. Do not remove suction line from water
- If the suction line is removed from water during the prime period, the process must be started over



451ASSY

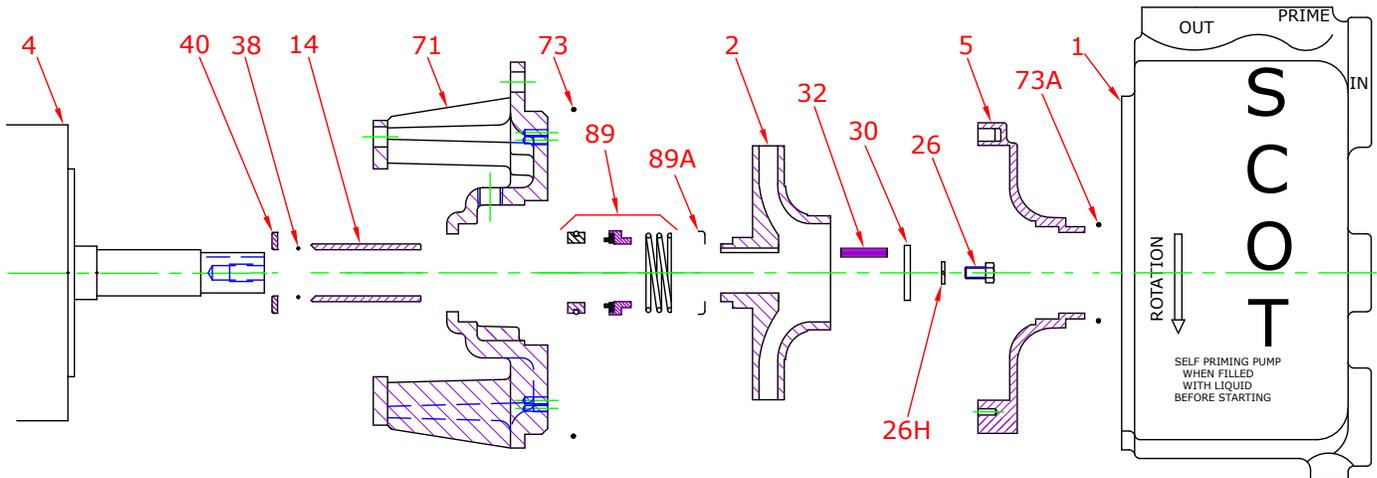
D451C56



484513500C56

B20

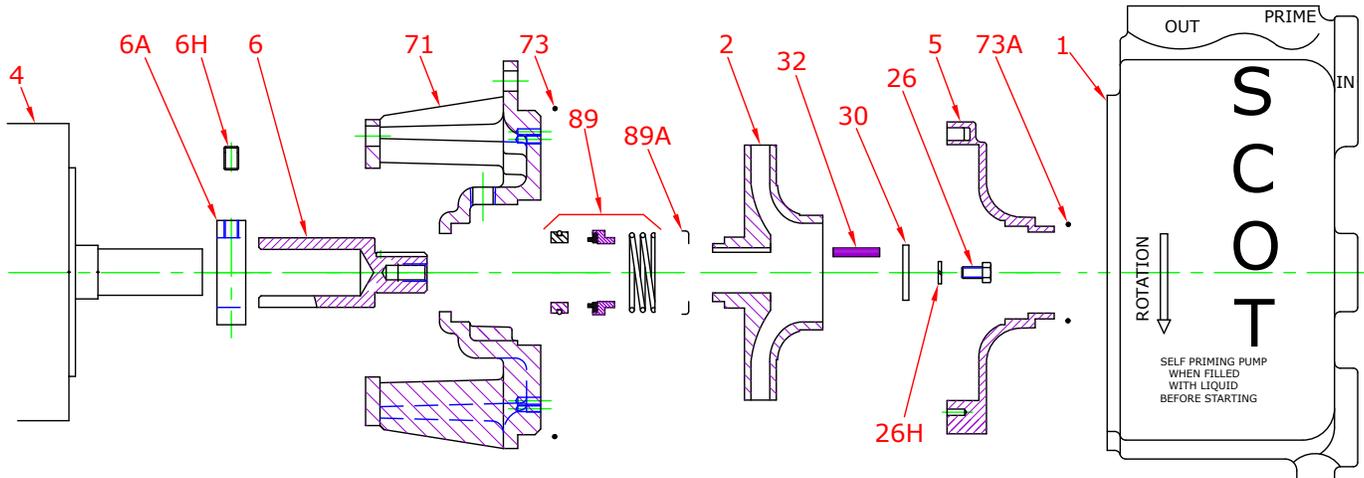
Parts- Fresh Water Style JMS



Key No.	Part Name	Part Number
1	Case 87-17, Bronze, 2.0 x 2.0 NPT	137.001.032
2	Impeller, Bronze, 5.50" dia, 7/8" Key	131.000.806.550
4	Motor chart, JM140/180, Modified carbon steel shaft	See Chart
5	Diffuser, Bronze	131.000.755
6	Shaft, Bronze	189.001.171
14	Shaft Sleeve, Bronze	189.001.215
26	Cap Screw, Stainless, Retainer	105.000.233
26H	Lock Washer, Stainless, Retainer	104.000.130
30	Washer, Stainless, Retainer	205.030.101
32	Key, Stainless	102.000.102
38	O-ring, Shaft, Buna	116.000.117
40	Flinger, Bronze	189.001.216
71	Adapter, Bronze, JM140/180	132.000.382
73*	Gasket, Case, Buna	116.000.184
73A	O-ring, Diffuser	116.000.143
89*	Seal, 1-1/2", Type 21, BN-CARB/CM	101.000.168
89A	Seal retainer	104.000.202
KIT	Repair Kit, 1-1/2" BN-CARB/CM Seal	189.001.507

* Denotes components included in seal and gasket kit.

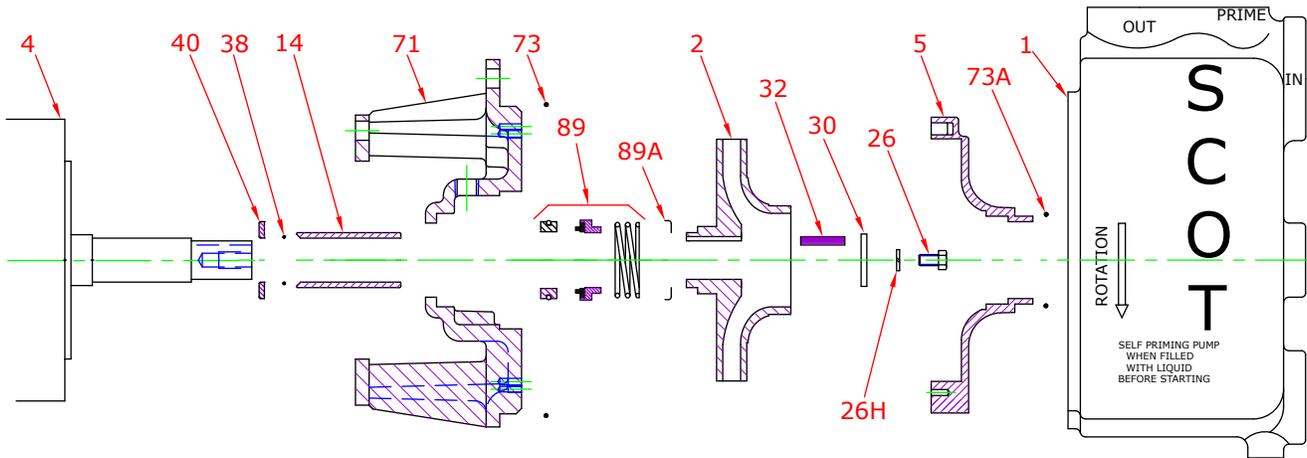
Parts-Sea Water Style JMX



Key No.	Part Name	Part Number
1	Case 87-17, Bronze, 2.0 x 2.0 NPT	137.001.032
2	Impeller, Bronze, 5.50" dia, 7/8" Key	131.000.806.550
4	Motor chart, JM140/180, Modified carbon steel shaft	See Chart
5	Diffuser, Bronze	131.000.755
6	Shaft, Bronze	189.001.171
6A	Collar, Bronze	189.001.170
6H	Set Screw, Stainless	189.001.161
26	Cap Screw, Stainless, Retainer	105.000.233
26H	Lock Washer, Stainless, Retainer	104.000.130
30	Washer, Stainless, Retainer	205.030.101
32	Key, Stainless	102.000.102
71	Adapter, Bronze, JM140/180	132.000.382
73*	Gasket, Case, Buna	116.000.184
73A	O-ring, Diffuser	116.000.143
89*	Seal, 1-1/2", Type 21, BN-CARB/CM	101.000.168
89A	Seal retainer	104.000.202
KIT	Repair Kit, 1-1/2" BN-CARB/CM Seal	189.001.507

* Denotes components included in seal and gasket kit.

Construction Options - Fresh Water Style JMS



Construction Options		
Key	Part Name	All Bronze
1	Case	Bronze
2	Impeller	Bronze
5	Diffuser	Bronze
14	Shaft Sleeve	Bronze 954
26	Imp. Retainer Screw	Stainless
26H	Imp. Retainer Lockwasher	Stainless
30	Imp. Retainer Washer	Stainless
32	Key	Stainless
38	Shaft O-Ring	Buna
40	Flinger	Bronze
71	Adapter	Bronze
73	Gasket, Case	Buna
73A	O-ring, Diffuser	Buna
89	Mechanical Seal, Type 21 BN-CARB/CM	Standard
89A	Seal Retainer	Stainless