



# WEMCO<sup>®</sup> Self-Primer<sup>™</sup>



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## WEMCO<sup>®</sup> Self-Primer<sup>™</sup> Pump Details

Pump Size	3" x 3" • 76 mm x 76 mm ANSI/DIN
Pump Casing	Ductile Iron
Operating Pressure	Maximum 120 psi (797 kPa)
Impeller	Open type, two vane. Material - Cast Steel Pumps 3" (76.2 mm) solids
Impeller Shaft	17-4PH SST
Wear Plate, Replaceable	Hardened Steel
Cover Plate	Removable/Adjustable Ductile Iron
Flap Valve	Neoprene with steel reinforcing ring
Bearing Housing	Ductile Iron
Seal Plate	Ductile Iron
Shaft Sleeve	SST 316
Radial Bearing	Open single ball
Thrust Bearing	Open double ball
Bearing/Seal Cavity Lubrication	SAE No. 30 oil
Flanges	125# Ductile Iron ANSI or DIN
Gaskets	Buna-N, compressed synthetic fibers, vegetable fiber, PTFE, cork, and rubber
O-Rings	Buna-N - Teflon coated
Hardware	Plated steel
Pressure Release Valve	Brass
Oil Level Sight Gauges	Bearing and Seal Cavity

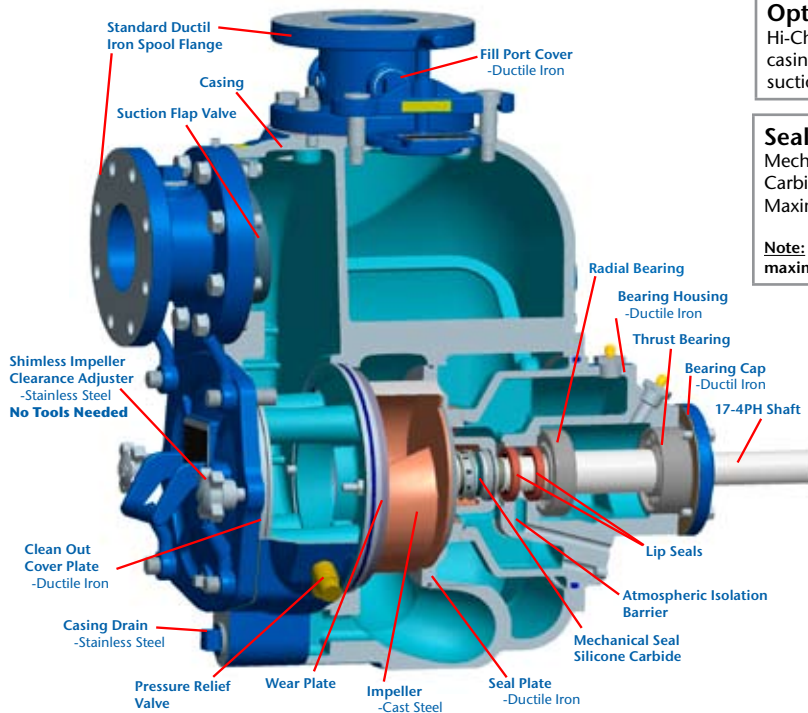
### Optional Equipment and Materials

Hi-Chrome, 316 SST, CD4MCU. Automatic air release valve, 120V/240V casing heater. High pump temperature shutdown kit, NPT & DIN standard suction and discharge flanges.

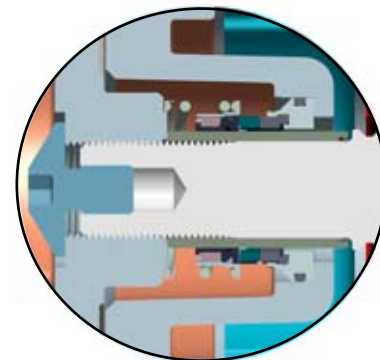
### Seal Specifications

Mechanical oil-lubricated, double floating, self-aligning seal. Silicon Carbide rotation and stationary faces. Stainless steel metal components. Maximum temperature of liquid pumped 180°F/83°C.

**Note:** consult factory for applications exceeding maximum pressure and/or temperature indicated.



### Seal Detail View



**No Tools Required For Clearance Adjustment!**

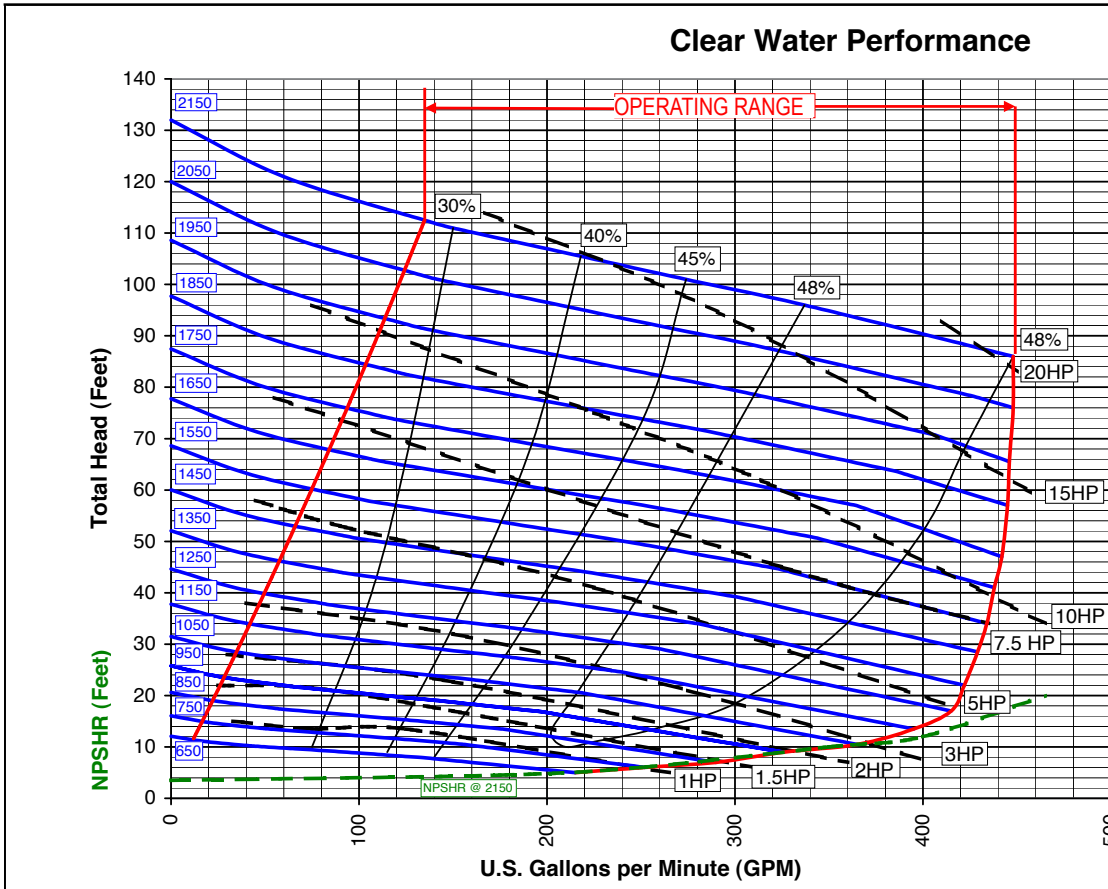
**Pump Specification: WSP3A**





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Pump Size	3"x3"/76 mm x 76 mm
Net Weight	420 lbs./190 KG.
Shipping Weight	475 lbs./215 KG
Weights and dimensions approximate	



Suction: 3"  
Discharge: 3"  
Impeller Diameter: 8.75"  
Max. Solid Sphere: 2.50"

REPRIMING LIFTS	
RPM	FEET
650	5
750	6
850	8
950	10
1050	13
1150	16
1250	18
1350	19
1450	20
1550	21
1650-1750	22
1850-2150	25

Determine NPSHR prior to using repriming table. Do not use available suction lifts.

$$BHP = \frac{GPM \times FT \times}{3960 \times \text{Efficiency}}$$

$$KW = \frac{M^3 / HR \times M}{367 \times \text{Efficiency}}$$



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**AUG. 2005**  
**RPM VARIABLE**  
**WSP3A**

