



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

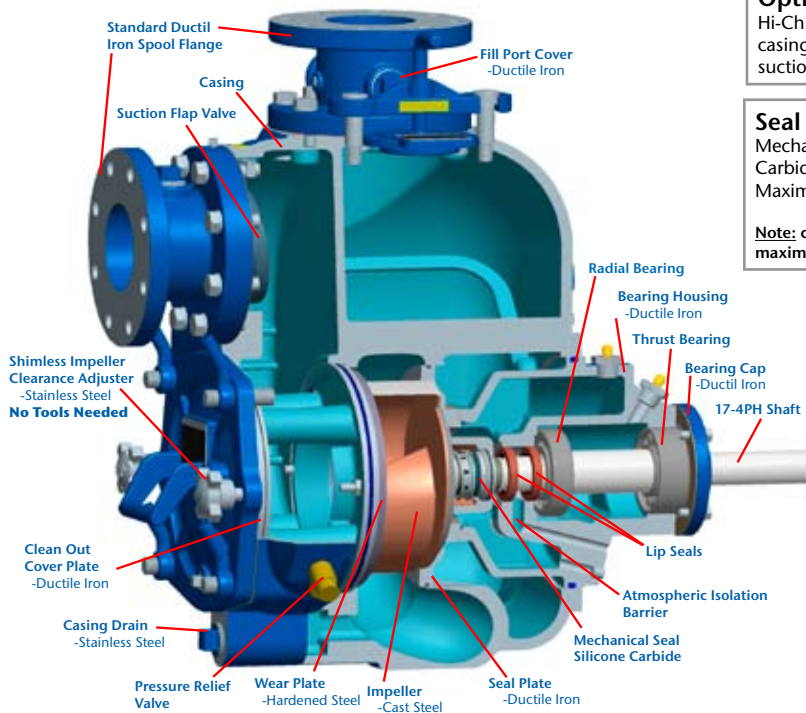


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Shown with optional NPT flanges

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



<b>Pump Size</b>	<b>4" x 4" • 100 mm x 100 mm ANSI/DIN</b>
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 30
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 Guages	Bearing and Seal Cavity

### Optional Equipment and Materials

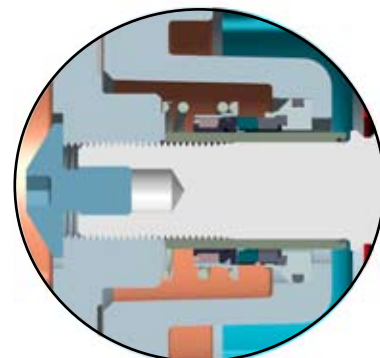
Hi-Chrome, 316 SST, CD4MCU. Automatic air release valve, 120V/240V casing heater. High pump temperature shutdown kit, NPT & DIN standard suction and discharge flanges.

### 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



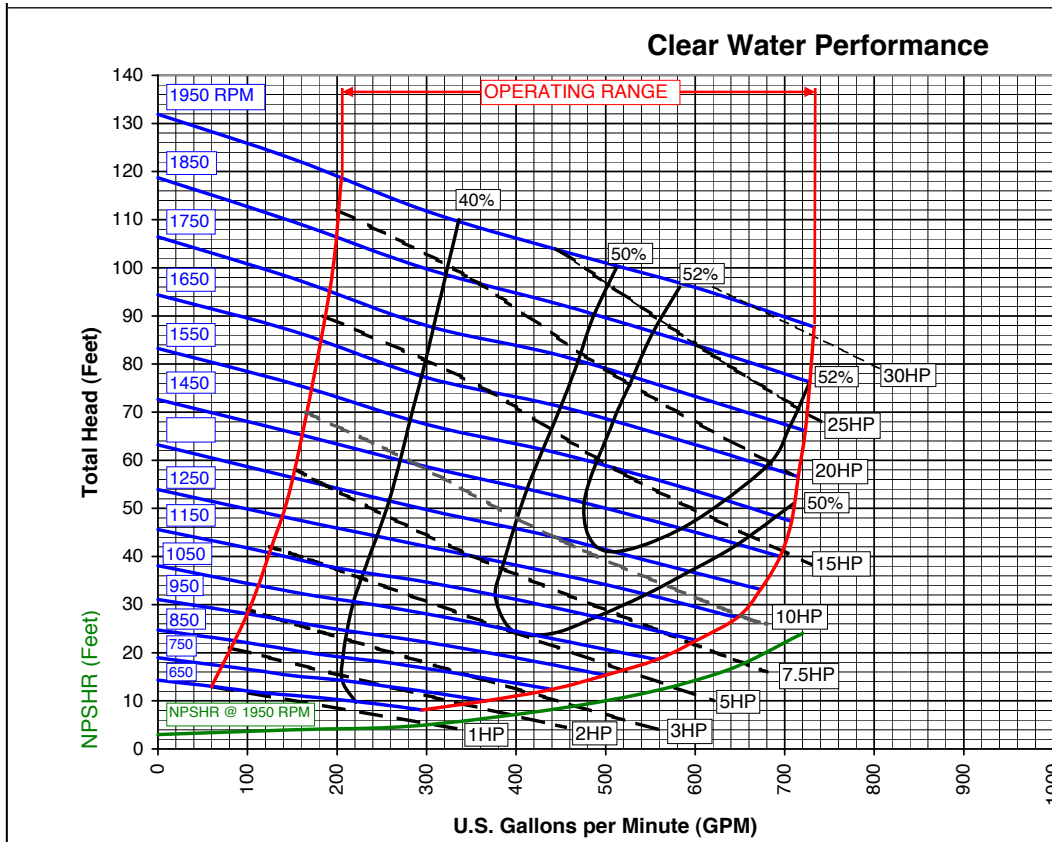
EXCELLENT  
ENGINEERING  
SOLUTIONS  
**WEHR**  
CLEAR LIQUID

**Pump Specification: WSP4A**



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

Pump Size	4"x4"/100 mm x100 mm
Net Weight	600 lbs./260 KG.
Shipping Weight	650 lbs./300 KG
Export Crate	25 Cu. Ft./0.7 CU. M
Spool Flange	Add 15 lbs/6.9 KG. each



Suction: 4"  
Discharge: 4"  
Impeller Diameter: 9.75"  
Max. Solid Sphere: 3.00"

REPRIMING LIFTS	
RPM	FEET
650	5
750	8
850	16
950	19
1050	22
1150	24
1250-1950	25

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

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

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

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Certified tests are performed using Hydraulic Institute acceptance level A.

**AUG. 2005**  
**RPM**  
**VARIABLE**  
**WSP4A**

