Model WHD Series Progressing Cavity Pumps

The pump division of Weatherford exclusively manufactures positive-displacement progressing cavity pumps (PCP).

Weatherford manufactures a full product line of small chemical-metering/dosing pumps, including the Model WHD pump.

Applications

Weatherford PCP dosing pumps provide high-quality performance for the most severe and extensive application requirements across many industries, including:

- Industrial water and wastewater
- Municipal water and wastewater
- Pulp and paper
- Oil and gas production and drilling
- Mineral and aggregate
- Food and beverage processing
- Petrochemical and chemical
- Alternative fuels

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Features, Advantages and Benefits

- A wide application range enables the pumping of fluids with varied viscosities and high temperatures, providing operational flexibility.
- Rotary positive-displacement action of the pump provides a nonpulsating flow, ensuring accurate flow monitoring.
- Continuous smooth operation helps in preventing and controlling production of undesired reservoir fluids and suspended particles of various shapes and sizes, increasing efficiency.
- Minimal degradation of shear-sensitive media prevents product altering during pumping, enabling a consistent and laminar flow.
- Separate suction casing enables the replacement of the rotor without removing the inlet connection, reducing maintenance time and associated costs.
- Stainless-steel design enables a resistance to abrasion and corrosion, increasing the longevity of the pump.
- The highly versatile design eliminates the need for special tools required for maintenance and repair, reducing maintenance costs.
- All pump parts (except rotor and stator) are interchangeable between models, reducing maintenance and replacement costs.
- Low-surface equipment, closed/coupled design, and minimal operational noise provide optimal alternatives for audio-, visual-, and height-sensitive areas, enabling PCP pumps to be used across a broad spectrum of applications.
- Self-priming design supports high lift capabilities and eliminates the need for suction foot valves, reducing operating costs.
- Pump design permits reversible rotation for bidirectional flow capability with equal efficiency, enhancing operations.
- Pumps are equipped with a simple pin-joint drive, improving reliability and reducing maintenance costs.

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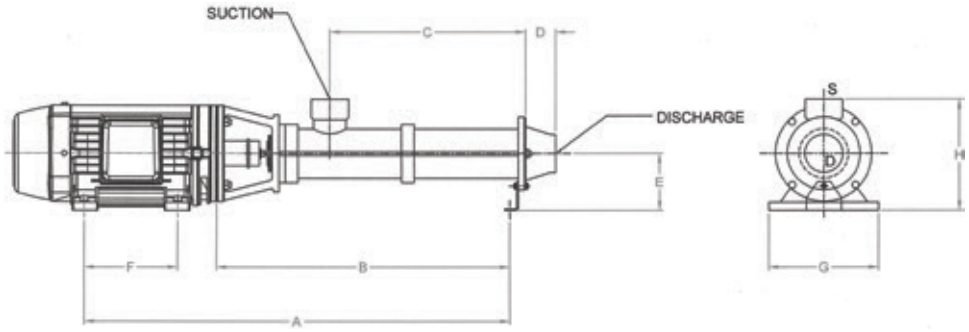
Specifications

Stator Material*	Temperature Limitations (°F, °C)
Buna	212 *100*
Fluoroelastomer	300 *149*
Ethylene propylene diene monomer (EPDM)	265 *129*

*Other materials available on request.

Pump Size	Total Weight		Suction NPT (in., *mm*)	Discharge NPT (in., *mm*)	Rated Pressure		Flow Rate per 100 RPM at 0 psi		Flow Rate per 1200 RPM	
	lb	kg			psi	kg/cm²	gal/hr	L/hr	gal/hr	L/hr
WHD-10	75	34	1.00 *25.4*	0.75 *19.1*	170	12	1.8	6.81	22	82
WHD-15							6.0	2.30	72	276
WHD-20							15.0	5.70	180	684

* All metal components of the Model WHD pump that come in contact with the pumping fluid are stainless steel. Standard construction includes mechanical seal, 1-in. national pipe thread (NPT) suction, 0.75-in. NPT discharge, 56C NEMA motor mounting bracket, 0.75 HP motor, 1,200 RPM, and 60 Hz.



Pump Size	Pump Dimensions (in., *mm*)							
	A	B	C	D	E	F	G	H
WHD-10	19.00 *482.6*	13.25 *335.6*	9.00 *226.0*	1.00 *28.0*	3.50 *90.0*	3.00 *76.2*	6.50 *165.9*	6.00 *150.0*
WHD-15								
WHD-20								