



Model WHT Series Progressing Cavity Pumps

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

The Weatherford Model WHT pump can easily handle fluids from thin, flowable liquids to highly viscous, abrasive materials, as well as materials with high concentrations of suspended solids.

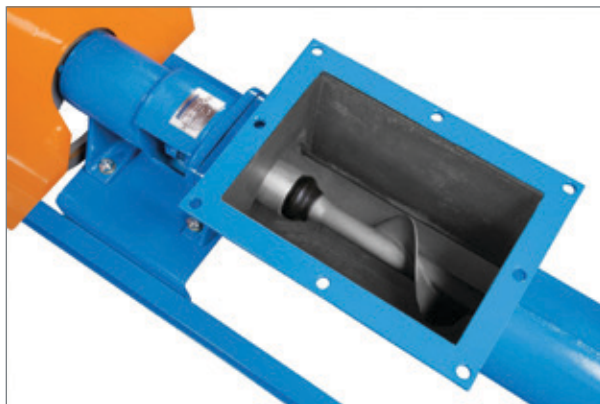
Applications

Weatherford PCPs 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
- Food and beverage processing
- Petrochemical and chemical
- Alternative fuels



Special pump configuration for high-pressure applications



Model WHT/V pump with a large, rectangular hopper and auger shaft integrated to a cardan shaft allows the pumping of viscous liquids and suspended solids



Model WHT pump with integral gear reducer and motor

Model WHT Series Progressing Cavity Pumps

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 prevent and control 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.
- The highly versatile design eliminates the need for special tools required for maintenance and repair, reducing maintenance costs.
- 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.



Model WHT pump with belt/sheave drive arrangement and motor

Options

- Stator in Buna, fluoroelastomer, and ethylene propylene diene monomer (EPDM); other materials available upon request
- Rotor in chrome-plated hardened steel or stainless steel
- Rotating and wetted parts in steel or stainless steel
- Pump suction housing in cast iron or stainless steel
- Closed coupled design with integral motor gear box reducer for small footprint

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Specifications

Pump Size	Rated Pressure		Flow Rate per 100 RPM at 0 psi		Maximum RPM
	psi	kg/cm ²	gal/min	m ³ /hr	
WHT-20	680	48	0.9	0.2	1,200
WHT-24	340	24	3.0	0.7	1,000
WHT-32			7.0	1.6	900
WHT-40			13.0	3.0	900
WHT-53			31.0	7.0	700
WHT-60			22.0	5.0	600
WHT-65			57.0	13.0	600
WHT-70	680	48	35.0	8.0	400
WHT-76			92.0	21.0	
WHT-90	510	36	150.0	34.0	
WHT-100	340	24	101.0	23.0	
WHT-100/2	170	12	211.0	48.0	350
WHT-114	340	24	299.0	68.0	
WHT-120/2	170	12	335.0	76.0	
WHT-131	255	18	562.0	105.0	
WHT-148	170	12	699.0	152.0	
WHT-200			828.0	188.0	

Pressure and flow values based on pumping water at 68°F (20°C); flanges to ANSI B16.1 and B16.5; pressure rating per stage: 85 psi (6 kg/cm²).

1. Separate suction casing, which enables rotor replacement without removing the inlet piping.
2. Removable inspection plates to view pump internals, permitting visual inspection prior to disassembly.
3. Stuffing box drain collector with plug.
4. Low-point plug connection for external drain pipe.

