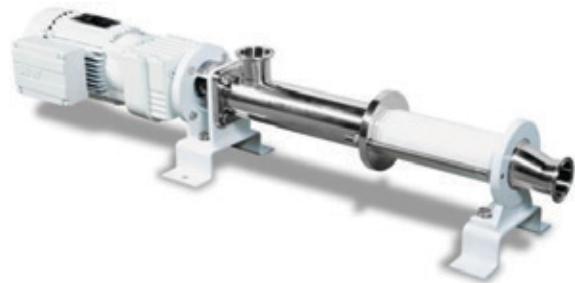




Model WHS Series Progressing Cavity Pumps

The pump division of Weatherford exclusively manufactures positive-displacement progressing cavity pumps (PCP), including a full product line of sanitary pumps, specifically the Model WHS pump. This pump can easily handle fluids from thin, flowable liquids to highly viscous materials.



Applications

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

- Food and beverage
- Cosmetic
- Pharmaceutical
- Pulp and paper
- Chemical

Model WHS 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.
- Separate suction casing enables rotor replacement without removing the inlet connection, reducing maintenance time and associated costs.
- Stainless-steel design enables resistance to abrasion and corrosion, increasing pump longevity.
- The highly versatile design eliminates the need for special tools required for maintenance and repair, reducing maintenance costs.
- Tri-clamp (TC) connections and optional clean in place (CIP) design for easy serviceability.
- 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.

Options

Stator available in food-grade Buna, fluoroelastomer, and ethylene propylene diene monomer (EPDM); other materials available upon request.



Model WHS Series Progressing Cavity Pumps

Specifications

Pump Size	Rated Pressure		Flow Rate per 100 RPM at 0 psi		Maximum RPM
	psi	kg/cm ²	gal/min	m ³ /h	
WHS-20	510	36	0.9	0.2	1,200
WHS-24			3.0	0.7	1,000
WHS-32			7.0	1.6	900
WHS-40			13.0	3.0	900
WHS-53			31.0	7.0	700
WHS-65			58.0	13.0	600
WHS-76			92.0	21.0	400
WHS-90			150.0	34.0	400

Pressure and flow values based on pumping water at 68°F (20°C); pressure rating per stage: 85 psi (6 kg/cm²); temperatures to 300°F (149°C).