EV6900

HOT OIL SERVICES APPLICATION GEAR PUMP | PRODUCT BROCHURE

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Blackmer®

Where Innovation Flows

Driven by the increased use of innovative recovery techniques like horizontal drilling and hydraulic fracturing, the United States finds itself in the midst of a 21st century oil and natural gas boom. This expansion has increased the need for mobile technology like hot oil trucks for wellhead treatment and other oil field services.

Blackmer® EV6900 Internal Gear Pump

Solutions for Hot Oil Services Applications

Trucks are used to transport various chemicals to well sites, where they are injected into the well bore and perform any number of services, most importantly keeping the well casing perforations free of scale and corrosive buildup.

Hot Oil Services Applications

Hot oil services involve the circulation of heated oil or similar fluid, down a well bore in order to dissolve or dislodge paraffin and other hydrocarbons from the production tubing. Paraffin and other heavy organics exist in all crude oil products and can form into solids, blocking flowlines and piping. These blockages can greatly reduce production volume creating costly delays. A hot oil unit is designed to clear blockages by pumping heated fluid through piping, casing, and tanks. Hot oil units can also be used to heat water and fracturing fluids as well as cleaning oil and gas processing equipment. A producing well will require continual hot oil maintenance service throughout its life.

Blackmer EV6900 and EV6900HD (Heavy-Duty) Internal Gear Pumps have been designed to be the world's first drop-in replacements for competitive models, including the Viking® LV3900. The EV6900 and EV6900HD pumps include specific wear reducing features for increased reliability.

Blackmer EV6900 & EV6900HD Internal Gear Pumps

The Blackmer EV6900 Sealed Internal Gear Pump has been designed to meet and overcome the challenges found in the most demanding fluid transfer applications. It has become a trusted component within the upstream oil and gas industry due to its reliability and available options.

EV6900 and EV6900HD (Heavy-Duty) Internal Gear Pumps feature many design enhancements that make it the ideal solution to optimize hot oil services.

Features & Benefits

- Simple product configuration with two available models, standard and heavy duty
- Greased idler bushing with dual lip seals for increased service life and ease of maintenance
- Robust drive end utilizing a large bracket, large diameter shaft, and heavy duty thrust bearing
- Tungsten carbide idler bushing and idler pin (HD only)
- Graphite packing with lantern ring
- Materials of construction: Cast iron externals and internals
- Port sizes available: 3" ANSI flanged
- Max. flow rate: 140 gpm (31.80 (m^3/h)
- Max. viscosity: 750 SSU (163 cSt)
- Max. discharge pressure: 200 psi (14 bar)
- Max temperature limit: 300°F (149°C)
- 15-day factory lead time for pumps, 3-5 day factory lead time for parts

Pump Performance

APPLICATION	BLACKMER PUMP MODEL	VIKING® PUMP MODEL	NOMINAL PUMP RATING		[1]MAX DISCHARGE PRESSURE	MAX TEMPERATURE	VISCOSITY
			RPM	GPM (M^3/H)	PSIG (BAR)	FAHRENHEIT (CELCIUS)	SSU (cSt)
HOT OIL TRUCK	EV6900	LV3900	520	140 (31.80)	200 (14) >20 cSt	300° (149°)	750 (163)
	EV6900HD	LV3900	550	140 (31.80)	200 (14) >20 cSt	300° (149°)	750 (163)

[1] Maximum pressure listed reflects maximum differential pressure and maximum allowable working pressure.
[2] Values listed in table are nominal and for reference only. To ensure proper pump selection, always refer to Blackmer CHOICE

Pump Options

APPLICATION	PUMP MODEL	MATERIALS	PORTS	BUSHINGS	SEAL OPTIONS		
					PACKING	MECHANICAL	HEAVY-DUTY MECHANICAL
HOT OIL TRUCK	EV6900	Cast Iron	3" ANSI	Bronze	Graphite with Lantern Ring	N/A	N/A
	EV6900HD	Cast Iron	3" ANSI	Tungsten Carbide/Bronze	Graphite with Lantern Ring	N/A	N/A

(**NOTE:** Viking® is a registered trademark of Viking Pump, a Unit of IDEX Corporation.)

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