

# WARREN FSXB SERIES PUMPS

## TWO-SCREW PUMPS STANDARD PRODUCT SPECIFICATIONS

### PRODUCT PERFORMANCE YOU CAN RELY ON

The FSXB is the next generation FSXA series two screw pump suitable for high pressure applications and high compliance with API 676 3rd edition. The FSXB offers:

- Field replaceable liner, keyless timing gears and coupling with tapered shaft for ease of maintenance
- In-line suction and discharge flanges for easy installation
- Increased suction handling capabilities

The FSXB is suitable for a host of applications within the production and transportation segments of the Oil and Gas market including platforms and pipelines. It is available in a variety of materials, including cast and stainless steel, to meet your specific requirements (i.e. NACE).

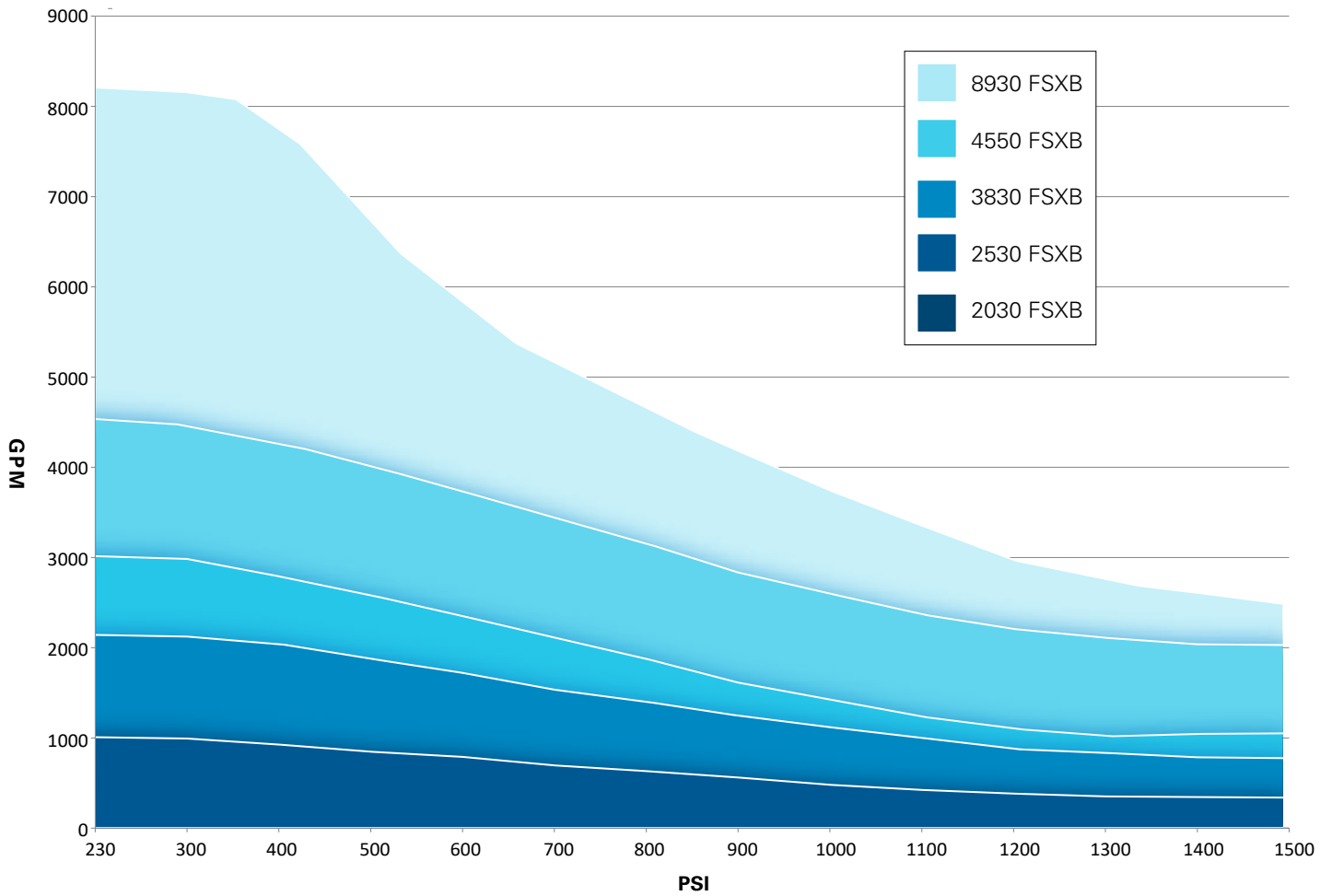


**FSXB SERIES TWO-SCREW PUMP**

Up to 8,200 GPM, 1,500 psi and viscosities from 0.5 cSt

### PRODUCT SPECIFICATIONS AND FEATURES

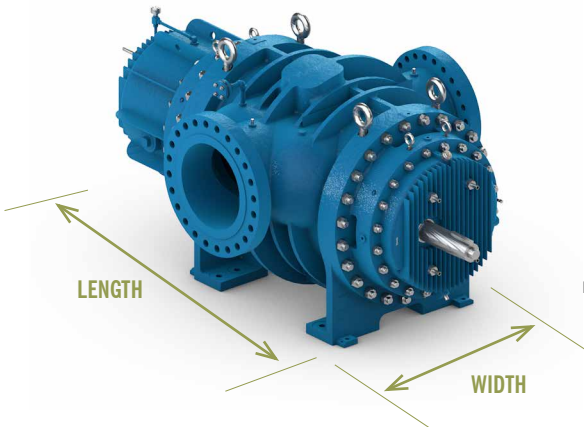
Casing and Covers	Cast steel or stainless steel or iron
Rotors	Standard material - 4340 steel (ASTM A668 Class M); with optional hardening and plating available
Liner	Field replaceable, ductile iron standard with optional hardening and plating
O-rings	Viton (in contact with pumpage), nitrile (in contact with lubricating oil)
Seal	Single component seal at each shaft end. Long version available to accommodate cartridge seal.
Flow rate range	200 gpm - 8,200 gpm (45 - 1,860 m <sup>3</sup> /h)
Outlet pressure	1,500 psig (103 bar)
Inlet pressure	Up to 6,000 m <sup>3</sup> /s (26,000 gpm)
Viscosity	0.5 - 100,000 cSt
Temperature	-20° F - 225° F
Speed	1780 rpms
Drive	Direct only
Rotation	Clockwise facing pump driveshaft
Mounting	Horizontal
Port Connections	Per ANSI B16.5, 300# inlet, 600# discharge
Accessories	Upon request, a temperature and vibration monitor is provided with 1/2" NPT connection
Timing gears	Herringbone, hardened
Bearings	Six bearing design; heavy duty roller bearings



APPROXIMATE STANDARD DIMENSIONS

PUMP SIZE	SUCTION	DISCH.	LENGTH	WIDTH	HEIGHT
2030	10" 300#	8" 600#	62.75	32.19	27.81
2530	12" 300#	10" 600#	70.9	34.31	31.5
3830	12" 300#	10" 600#	75.5	38.75	38
4550	14" 900#	12" 900#	85.25	44.63	49.25
8930	24" 300#	20" 600#	128	75.62	75

Dimensions not to be used for construction purposes



## TYPICAL FLUIDS

- Crude Oil
- Produced water
- Lube Oils
- Fuel
- Condensates
- Naphtha

## ADVANTAGES

- **API Pump:** high API 676 3rd edition compliance
- **High Efficiency:** Unique rotor profiles to reduce fluid slip. Robust, oil lubricated bearings require little to no maintenance
- **Easy Maintenance:** simplify inspections and maintenance with easy 'pop-out' rotor design
- **Customization:** optimally balance performance and costs with custom rotor pitches and profiles, seal types and suction/discharge locations
- **Rugged Design:** deliver consistent performance in harsh environmental with often drastic fluctuations in ambient or application conditions
- **Wear Protection:** limit pump wear with corrosion resistant materials, component hardening and specialized coatings.
- **Low NPSH:** limit NPSHr with a free-flow suction flow path and field proven flow geometries

## SAMPLE APPLICATIONS

- Pipeline Transport - Onshore & Offshore Platforms
- Pipeline injection & boosting
- Fuel Forwarding - Gas Turbines and Burners
- Charge Pumps - Various Refinery Processes



- **Bearings:** reliably support high pressure applications with 5 radial load handling roller bearings and an axially load handling, rotor locking double row thrust bearing
- **Gears:** transmit torque safely with specialty hardened and ground oil-lubricated timing gears

### CIRCOR

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*Oil & Gas Products & Services*

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