

# WARREN FSXA SERIES PUMPS

## TWO-SCREW PUMPS STANDARD PRODUCT SPECIFICATIONS

### PRODUCT PERFORMANCE YOU CAN RELY ON

The FSXA is a heavy-duty, high pressure two screw pump suitable for applications where high efficiency and durability are critical:

- Integral rotors provide leading rigidity, limiting deflection and eliminating assembly failure points
- Keyless timing gears and easy 'pop-out' rotor access for simple inspection and maintenance
- Rugged design for the harshest environments

The FSXA 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).

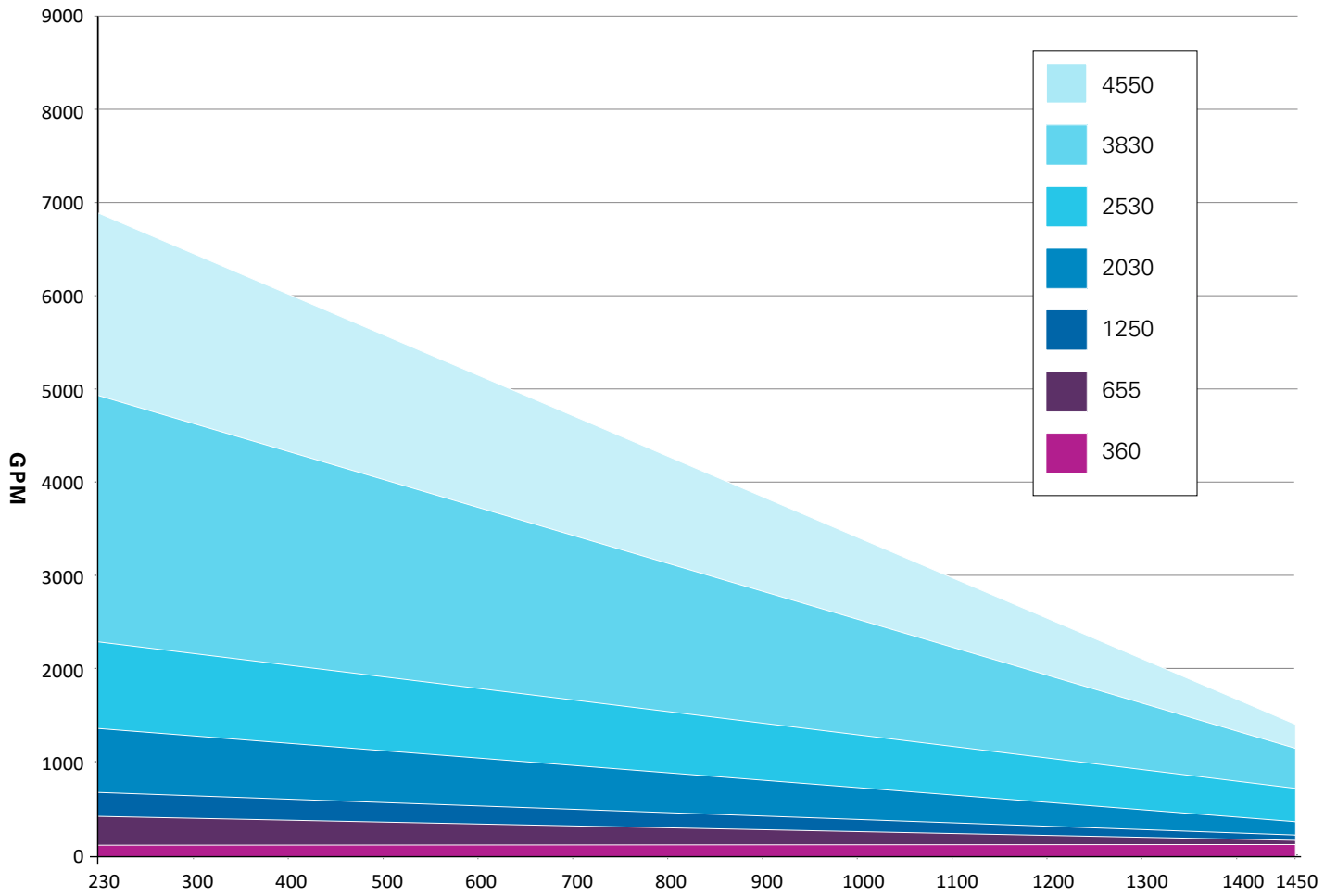


**FSXA SERIES TWO-SCREW PUMP**

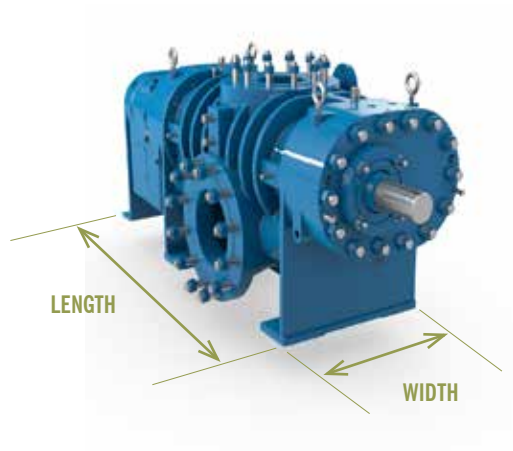
Up to 3,500 GPM, 1,500 psi and viscosities from 0.5 cSt

## PRODUCT SPECIFICATIONS AND FEATURES

Casing and bearing housing	Cast steel or stainless steel or iron, with chrome plated bores for added lifetime
Rotors	Standard Material - 4340 steel (ASTM A668 Class M); with optional hardening and plating available
O-rings	Viton (in contact with pumpage), nitrile (in contact with lubricating oil)
Seal	Single component seal at each shaft end
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 500 psi (35 bar)
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



SERIES 2030



APPROXIMATE STANDARD DIMENSIONS

FSXA PUMP SIZE	SUCTION	DISCH.	LENGTH	WIDTH	HEIGHT
360*	2 1/2" - 300#	2" - 600#	37 7/16"	21"	14 1/2"
655*	4" - 300#	3" - 600#	47 3/4"	23"	16 1/4"
1250	6" - 300#	4" - 600#	55 1/4"	23"	19"
2030	8" - 300#	6" - 600#	63 15/16"	26"	22"
2530	10" - 300#	8" - 600#	78"	34"	26 5/8"
3830	12" - 300#	10" - 600#	87 1/8"	34"	30 1/2"
4550	14" - 600#	12" - 600#	86 5/8"	34"	33"

\* Dimensions not to be used for construction purposes

## TYPICAL FLUIDS

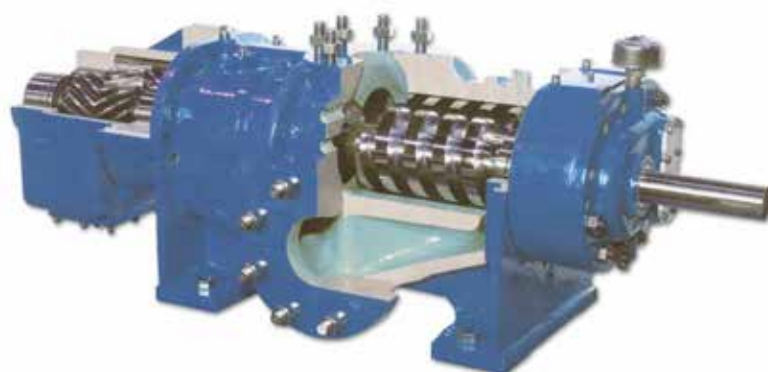
- Crude Oil
- Asphaltenes
- Lube Oils
- Fuel
- Condensates
- Naphtha

## SAMPLE APPLICATIONS

- Pipeline Transport - Onshore & Offshore Platforms
- Loading & Unloading - Tankers, Barges, Tank Farms
- Fuel Forwarding - Gas Turbines and Burners
- Charge Pumps - Various Refinery Processes

## ADVANTAGES

- **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
- **Rugged Design:** deliver consistent performance in harsh environments with often drastic fluctuations in ambient or application conditions
- **Wear Protection:** limit pump wear with corrosion resistant materials, component hardening and specialized coatings.
- **Integral Rotors:** lengthen service intervals with ultra-rigid, 1-piece rotors that limit deflection and eliminate common, assembled rotor failure nodes
- **Double Helical Gears:** limit noise while delivering leading torque transfer and durability
- **Bearing Design:** reliably support high pressure applications with 5 radial load handling roller bearings and an axial load handling, rotor locking double row thrust bearing



- **Low NPSH:** limit NPSHr with a constant-area suction flow path and dropped flange
- **Wide Viscosity Capabilities:** handle fluids with viscosities ranging from 10,000 cSt to below 1 cSt due to internal tolerance-disciplined manufacturing and "ONS" rotor profile

### CIRCOR

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*Oil & Gas Products & Services*

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