

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).

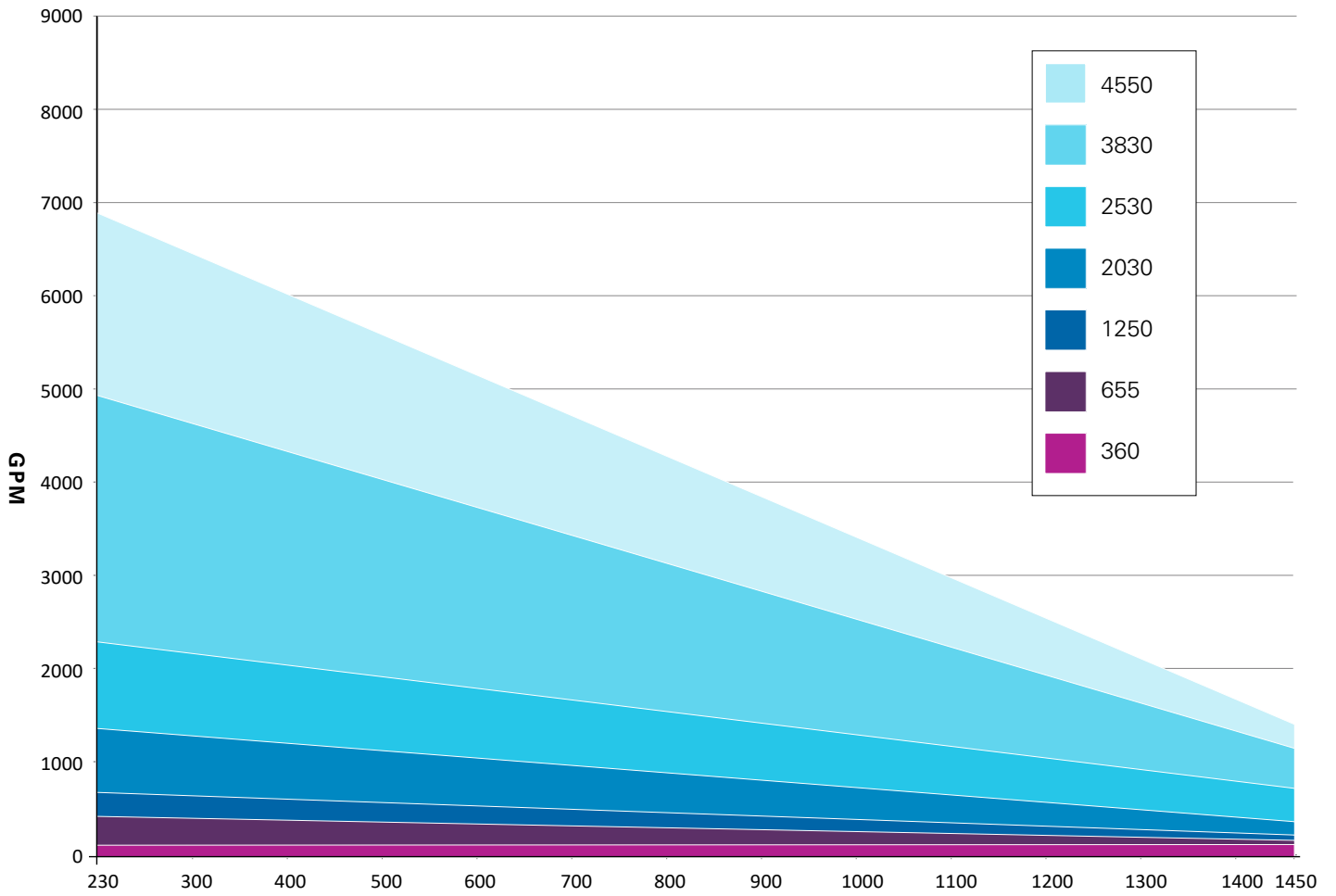


FSXA SERIES TWO-SCREW PUMP

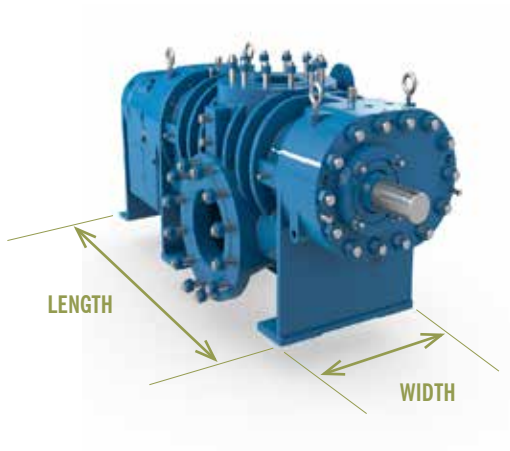
Up to 3,500 GPM, 1,500 psi and viscosities from 0.5 cSt

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 ³ /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

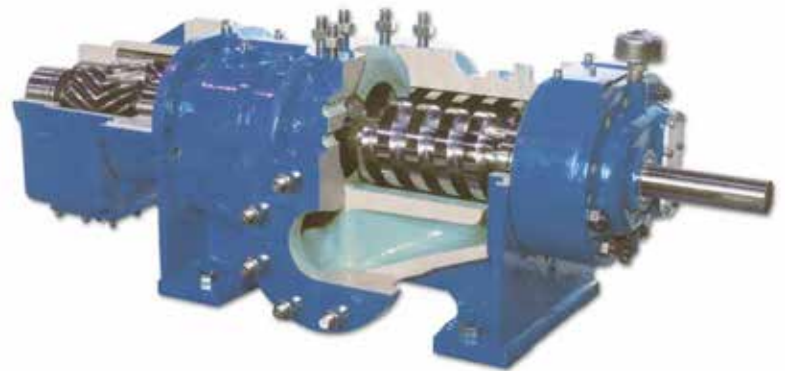
- Crude Oil
- Asphaltenes
- Lube Oils
- Fuel
- Condensates
- Naphtha

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

1710 Airport Road
Monroe, NC 28110-5020
Tel: +1.704.289.6511
Tol: +1.877.853.7867

Oil & Gas Products & Services

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