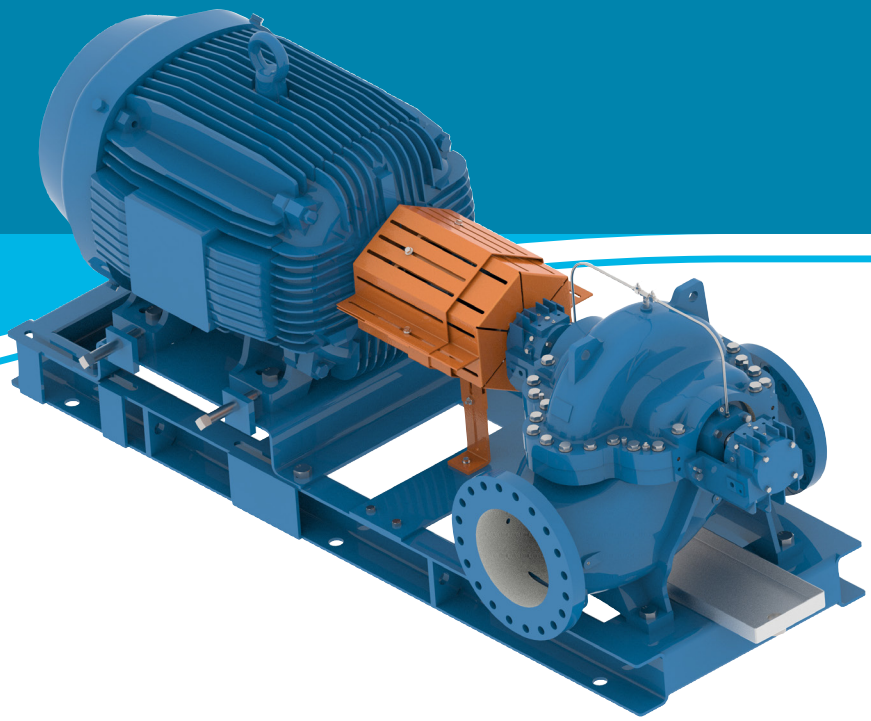
xylem
Let's Solve Water

e-XC

SINGLE STAGE, DOUBLE SUCTION
CENTRIFUGAL PUMPS - 60 HZ



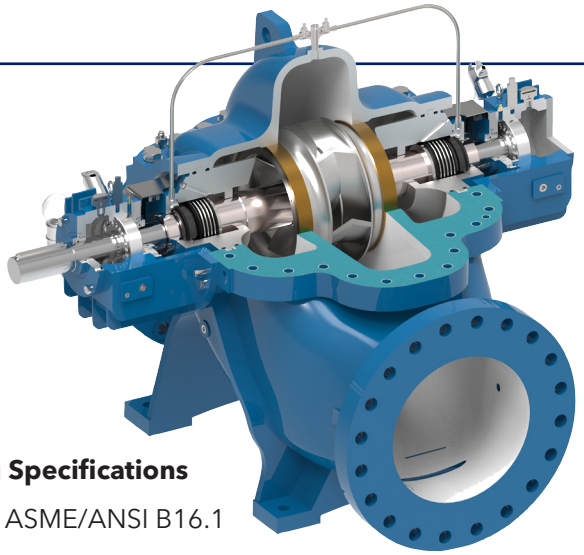
BReXC_60HZ

Designed and manufactured by the global leader in pumping technology, the Xylem e-XC single stage, double suction centrifugal pump provides a more powerful and efficient solution for a wide range of industrial applications including oil & gas, power generation, general industry, and mining.

It is a configurable single-stage horizontal split-case pump with extensive flow and head coverage and a common in-line configuration for easier installation of new and retrofit pumping systems. Coupled with a complete range of materials of construction to choose from, this pumping solution is here to meet your performance demands at the best value.

Features and Benefits

- **More powerful:** As a replacement to the legacy AC Series 8100, 8300, and 9100 pumps, we provide efficient pumping down to 11 gpm [2.5 m3/hr]. With a top end flow rate of up to 57,061 gpm [12,960 m3/hr], the e-XC can easily handle medium and large capacity systems and higher head as well. For even larger applications, Xylem's AC Custom pump range is available to meet any customer's needs.
- **Tailor made:** Full range of standard materials including duplex and super duplex plus engineered to order options.
- **Longer running life:** Thanks to a shorter shaft, this pump can run up to 3 times longer (L10 100,000 hours) before the bearings need to be changed.
- **Peace of mind:** With optional temperature and vibration sensors on the bearing bracket, real time measurement is available to help predict maintenance needs. Spare rotating elements and parts kits are available.
- **True partners:** Through rugged engineering backed by Xylem's responsive, knowledgeable distribution network, this pump is designed to give you the long lasting and reliable service that you expect.



Technical Specifications

Hydraulic Specifications[1]

Maximum flow: 57,061 gpm [12,960 m3/hr]

Maximum head: 873 ft. [266 m]

Fluid Temperature Range

Standard: 0 to 250°F [-18 to 121°C]

Casing Operating Pressure

Cast Iron: 175 psi [12 bar]

Ductile Iron: 400 psi and 450 psi [28 and 31 bar]

Flange Drilling Specifications

125# and 250#, ASME/ANSI B16.1

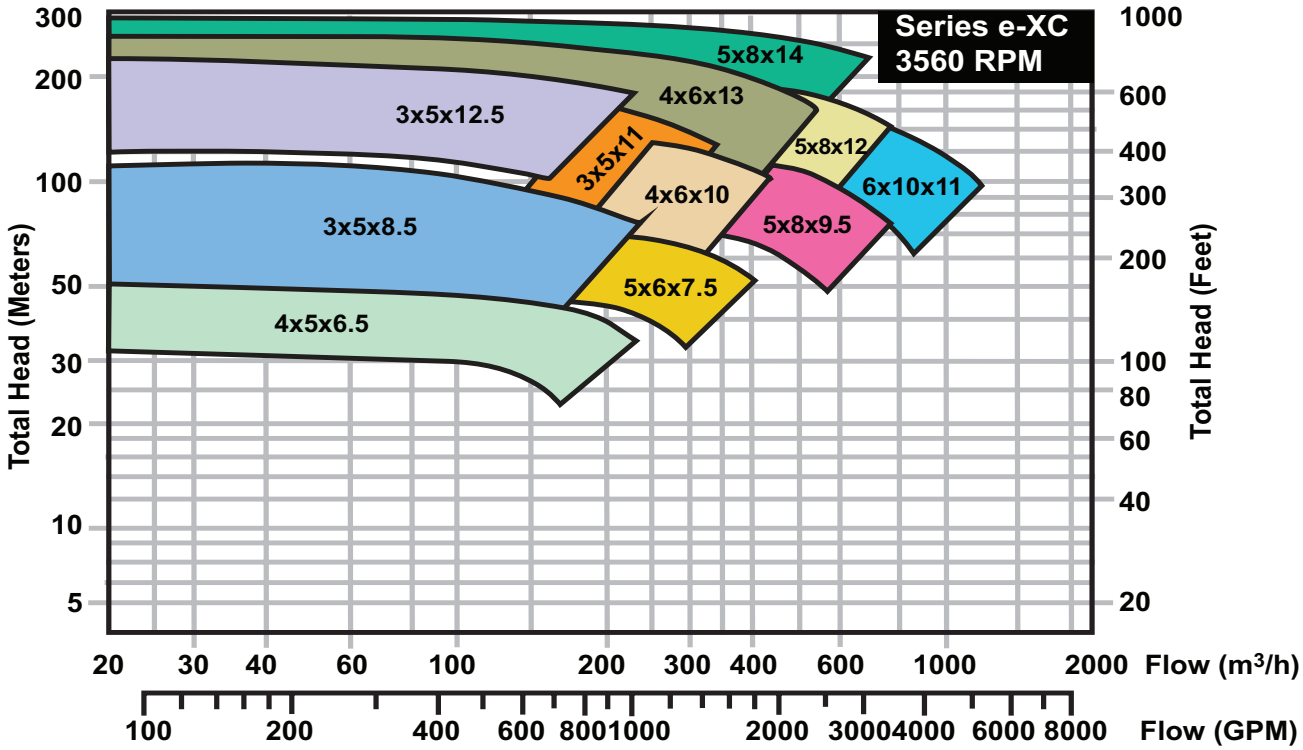
DIN 16/25/40, EN 1092

AWWA Class D, Class F

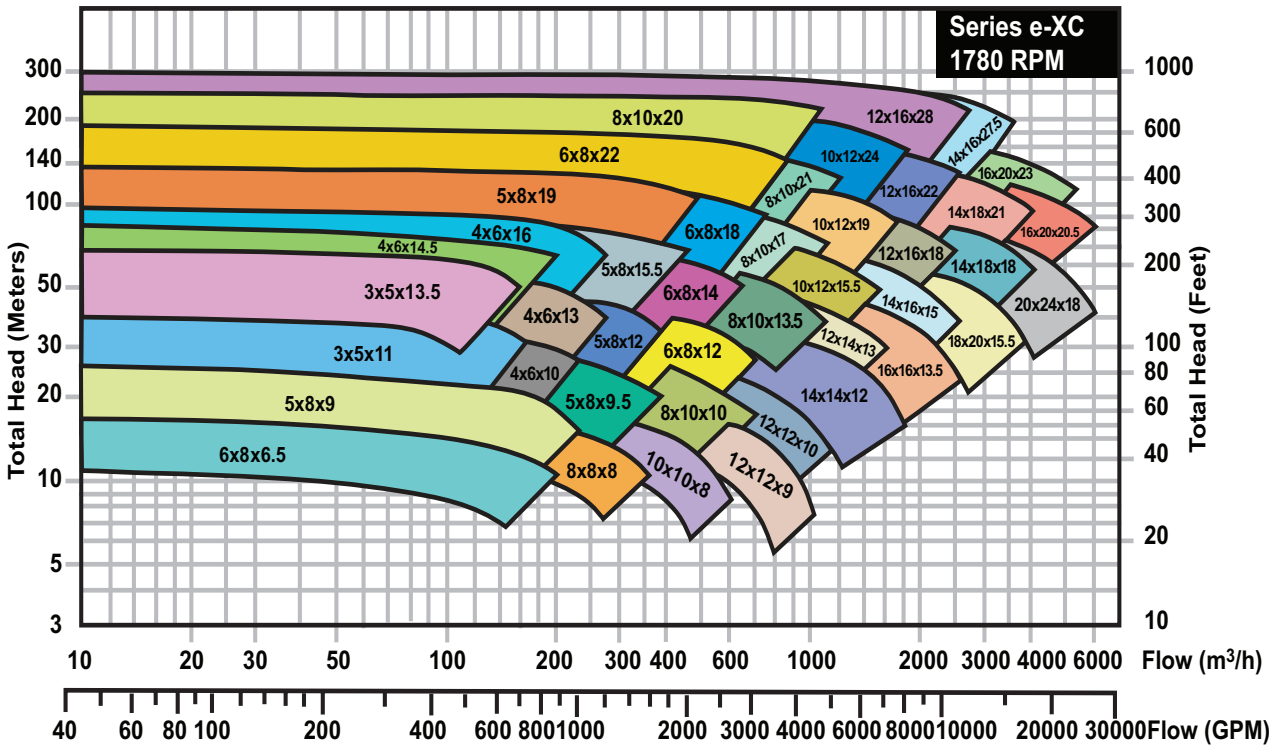
[1] Hydraulic performances compliant with ANSI/HI 14.6 and ISO 9906:2012 (Grade 2B)

60 Cycle Performance Range

2-Pole



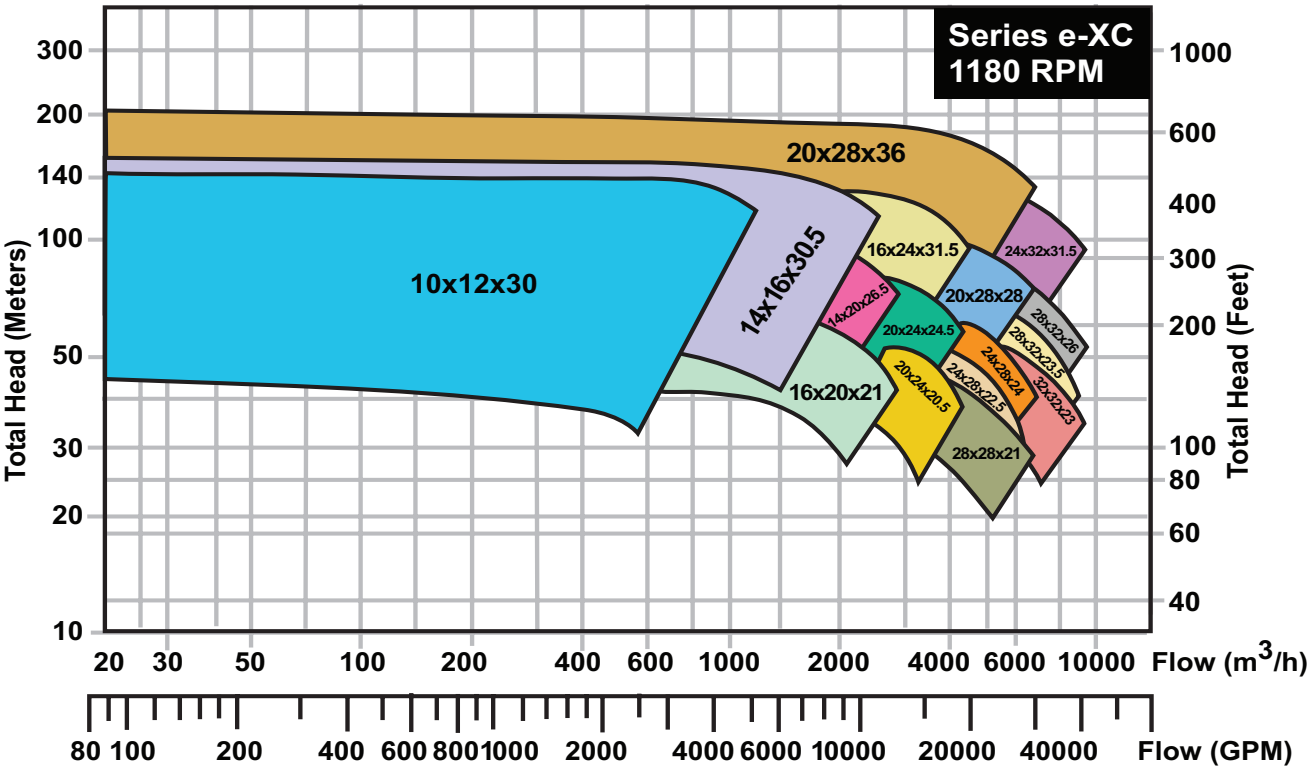
4-Pole



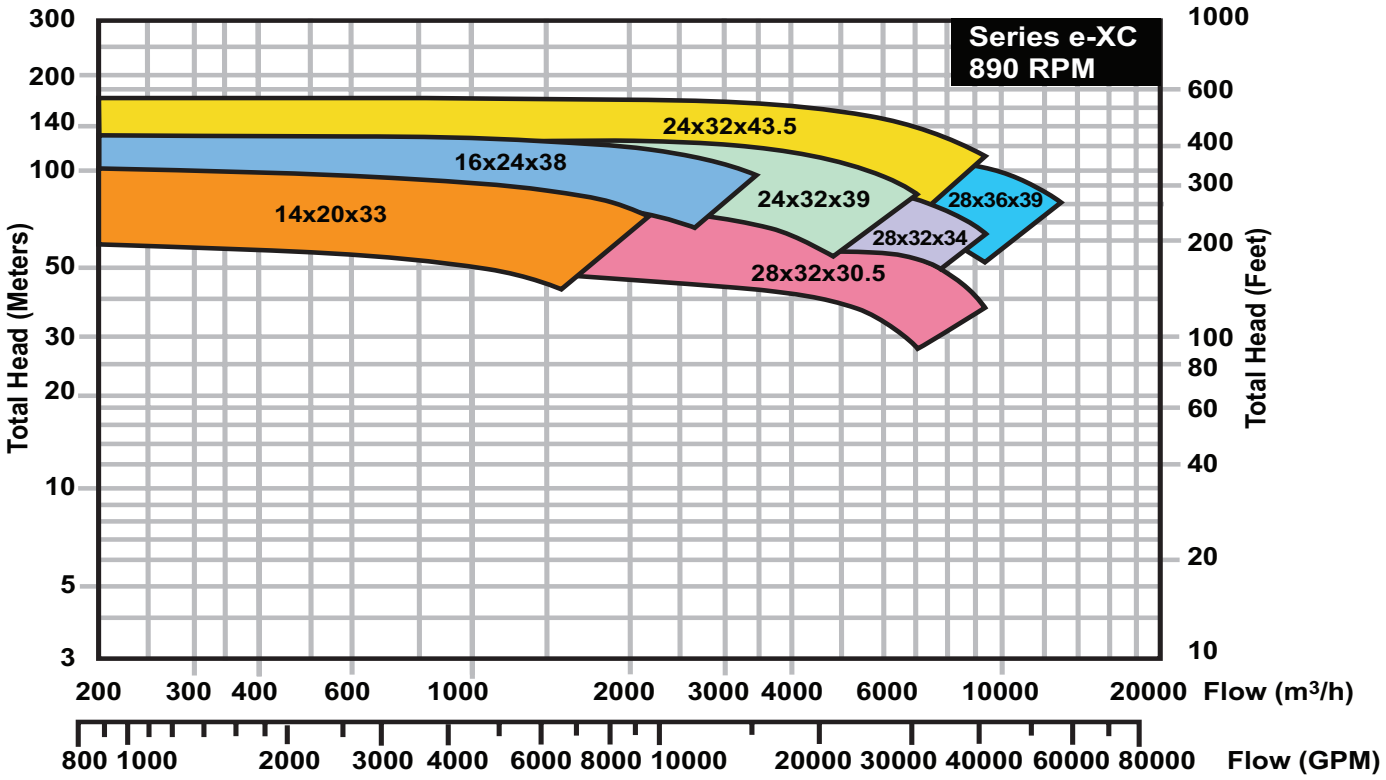
Every e-XC pump has two distinct impeller designs - i.e. the 3x5x8.5 model is also available as 3x5x8.
See individual performance curves for more details.

60 Cycle Performance Range

6-Pole



8-Pole



Every e-XC pump has two distinct impeller designs - i.e. the 10x12x30 model is also available as 10x12x28.5. See individual performance curves for more details.

Materials of Construction

COMPONENT	STANDARD OPTION		OTHER AVAILABLE OPTIONS				
Casing	Cast Iron NO. 35	Ductile Iron 65-45-12	316 SS		Duplex SS		Super Duplex
Shaft (seal on shaft)[1]	420 SS		Duplex SS				
Shaft (seal on sleeve)	5140		4135				
Impeller	304 SS		–	316 SS	–	Duplex SS	Super Duplex
Casing wear rings	Bronze C90300		304 SS	316 SS	Duplex SS	Super Duplex	Nitronic 60
Imp. wear rings	304 SS		–	316 SS	–	Duplex SS	Super Duplex
Shaft sleeves	304 SS		316 SS			Duplex SS	
Shaft sleeve nuts	304 SS		316 SS			Duplex SS	
Packing[1]	Style 608D Graphite		–				
Lantern ring[1]	PTFE		Cast Iron				
Seal flush lines	304 SS	316 SS	Nylon				
Mechanical seal type[2]	MR3	MR4	MR6			MR8	
Other casted components	Cast Iron NO. 30		–				
Bearings	Steel		–				
Bolts	Steel		–				
Pipe Plugs	Steel		–				
"O" Rings	Rubber (FKM)		–				
Gaskets	Fish Paper		–				
Retaining ring	304 SS		–				
Shoulder rings	Steel		–				
Protective Guard	Steel		–				

[1]Optional component with a standard material configuration

[2]For mechanical seal material configuration details, see 'Mechanical Seals' section

Sealing Solutions

Packing

PTFE lantern ring with style 608D graphite packing[2]

Up to 300 psi [20.7 bar]

MR4

Unbalanced unitized industrial rubber bellow seal

Up to 4" [110 mm] and 175 psi [12 bar][1]

MR3

Balanced industrial metal pusher seal

Up to 8.25" [210 mm] and 450 psi [31 bar][1]

MR6 & MR8

Industrial metal pusher cartridge seals

MR6: Configured for seal on shaft

MR8: Configured for seal on sleeve

Up to 7.375"/8.25" [185/210 mm] and 450 psi [31 bar][1]

Fluid Temperature Range

Mechanical seals: 0 to 250°F [-18 to 121°C]

Packing: 0 to 250°F [-18 to 121°C] at 4000 FPM [20 m/s] shaft speed

Material Configurations

1. Carbon/Silicon Carbide/EPDM[3]
2. Silicon Carbide/Silicon Carbide/EPDM
3. Carbon/Silicon Carbide/FKM
4. Silicon Carbide/Silicon Carbide/FKM

[1] Pressure rating represents dynamic working pressure. Seals are rated for 1.5X dynamic pressure under static loading.

[2] Packing ring and packing materials only available in cast iron and PTFE yarn respectively (China only).

[3] Standard seal material configuration

Seal Flushing

All e-XC pumps include plan 11 flushing (standard) which ensures seal components stay clear of debris and extends seal life. Plan 11 flushing diverts water traveling through the pump volute into either seal faces or packing glands.

MR4 Cross-Section

MR3 Cross-Section

MR6 Cross-Section

Motor Specifications & Drives

Motor Offerings

- NEMA premium efficiency per EISA 2010
- NEMA MG-1 performance
- Max 3-phase ambient temperature of 104°F (40°C)
- Inverter ready
- Class F insulation
- Voltages: 3 x 460/575 V
- Poles: 2, 4, 6 and 8
- Open Drip Proof (ODP) enclosure
- Totally Enclosed Fan Cooled (TEFC) enclosure (optional)
- PTC/RTD sensors (optional)

Aquavar® IPC Drive Options

- 1.5/125 and 150/600 hp ranges
- Temperature Rating: 14°F to 113°F (-10°C to 45°C)
- Built-in BACnet, Modbus RTU, N2 Metasys FLN
- Optional mains disconnect
- 2 analog inputs, 1 analog output
- 4 digital inputs, 2 digital outputs

Couplings

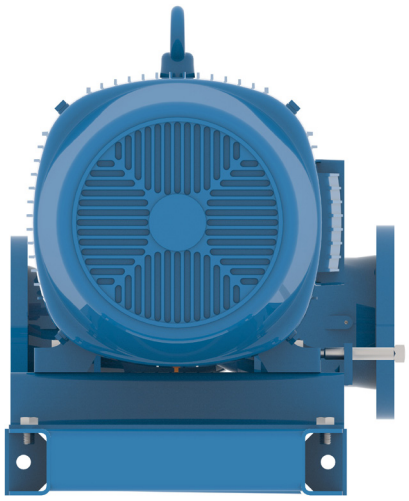
COUPLING TYPE	STANDARD		OPTIONAL		
Spacer	N/A		Duraflex®	Falk Steelflex®	Falk Gear Type
Non-Spacer	Duraflex®	Falk Steelflex®[1]	Falk Steelflex®	Falk Gear Type	

[1]Standard only if Duraflex® coupling size is not available

Baseplate and Coupling Guard

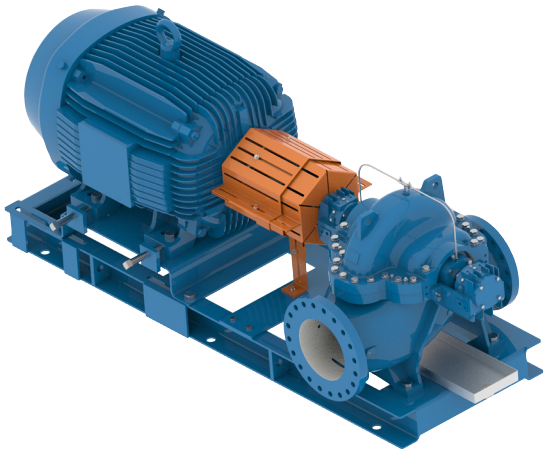
ITEM	FEATURES
Baseplate	Grouted Formed steel frame Alignment jacking screws[1]
Coupling Guard	ANSI/OSHA compliant Scratch resistant powder coating
Drip Pan (Optional)	Galvanized steel

[1]Alignment screws only applicable after 215 frame size



Other Standard Features

- Equipped with shaft guards for increased safety and protection against rotating components.
- Short shaft design ensures less deflection and longer bearing life.
- Vibration, temperature and pressure ports standard for easy monitoring.



Pump Accessories

Bearing Lubrication

Oil Lubrication Kit

- 4 oz. Trico oiler
- NPT sight glass
- NPT breather vent

Temperature Monitoring

Prosense ETS Series
Digital Temperature Sensor

- -58°F to 302°F [-50°C to 150°C]
- Outputs 1 and 2: Switch PNP, N.O./N.C. selectable or 4 to 20 mA, 4-digit display

Vibration Monitoring

PCB Piezotronics Industrial Velocity Transmitter

- Output: 4 to 20 mA
- 0 to 1 in/sec pk
- 3 to 1k Hz
- 2-pin connection

Pressure Monitoring

American Sensor Technologies Pressure Sensor

- AST range 0 to 100 psi [0 to 6.9 bar]
- Output: 4 to 20 mA

American Sensor Technologies Pressure Sensor

- AST range 0 to 300 psi [0 to 20.7 bar]
- Output: 4 to 20 mA

Pump Selection

Using Xylem's Intellitronic X selection software for pump selection will save you time due to its easy to use platform and selection flexibility. With ability to be designed and configured in a multitude of ways, the Xylem e-XC single stage, double suction centrifugal pump is available in a variety of sizes, models and materials which allow you to perfectly configure it for your system requirements.

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