

e-XC

SINGLE STAGE, DOUBLE SUCTION
CENTRIFUGAL PUMPS - 60 HZ

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 applications including oil & gas, power generation, general industry, water utilities, 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 Specifications¹

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]

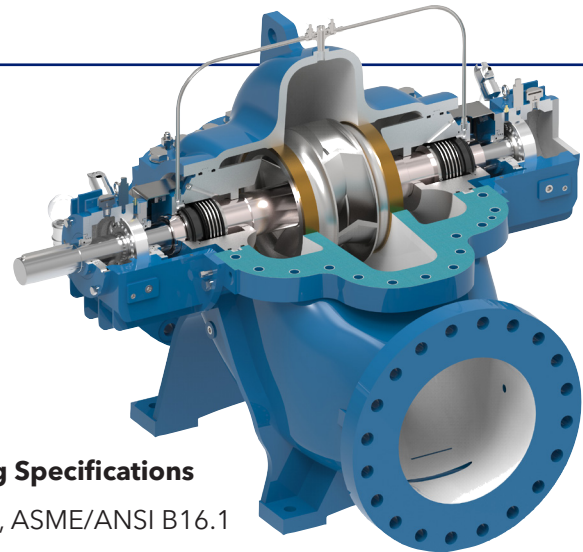
Flange Drilling Specifications

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

DIN 16/25/40, EN 1092

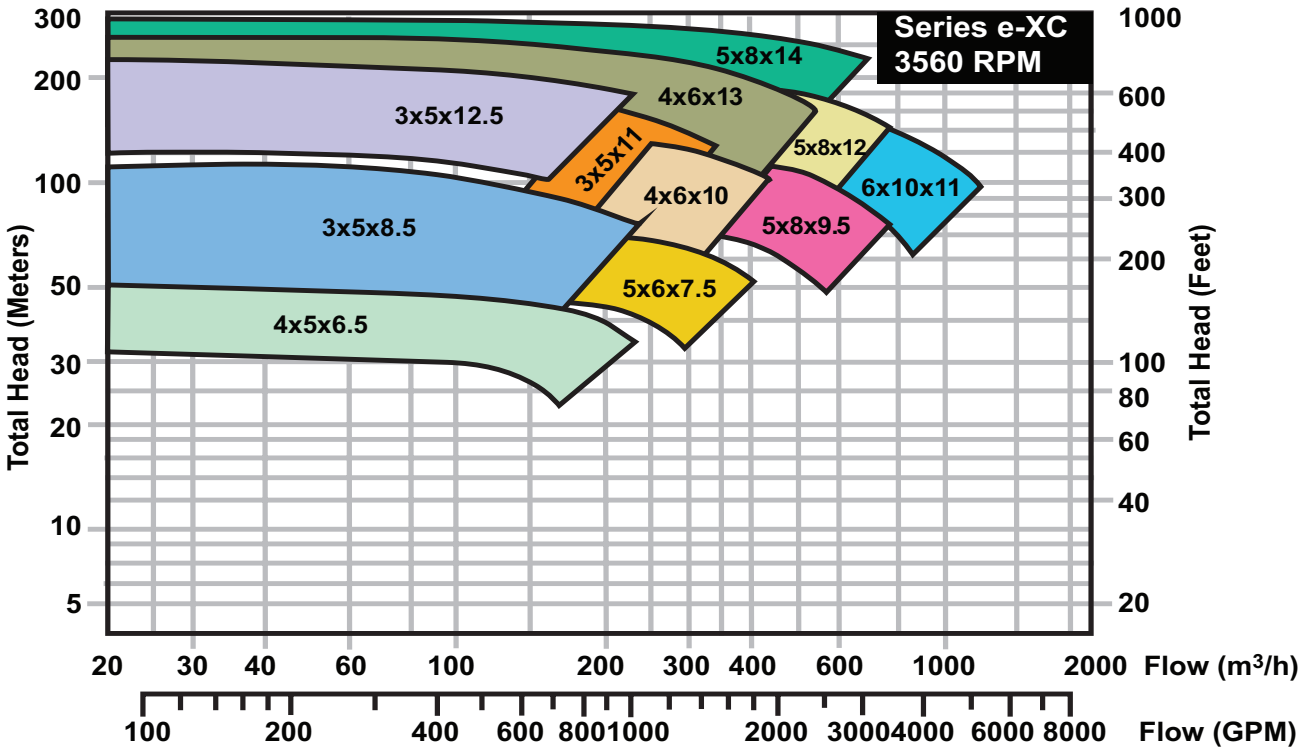
AWWA Class D, Class F

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

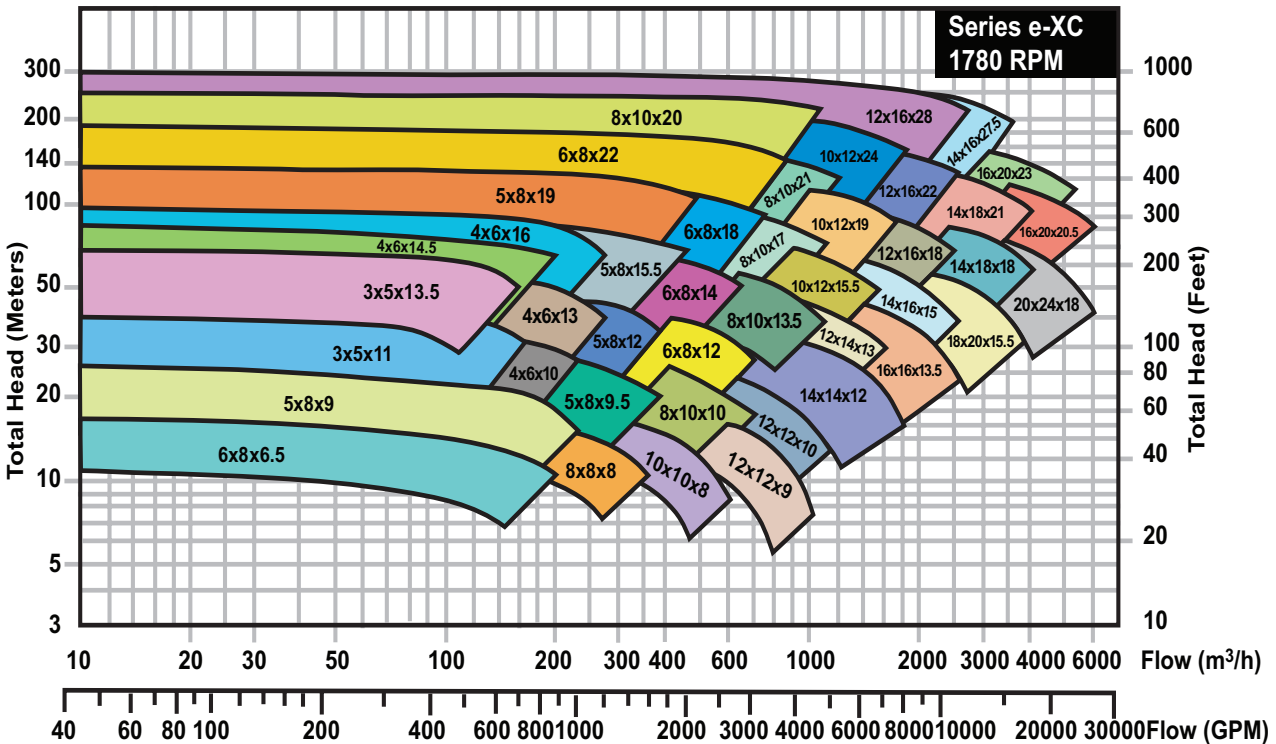


60 Cycle Performance Range

2-Pole



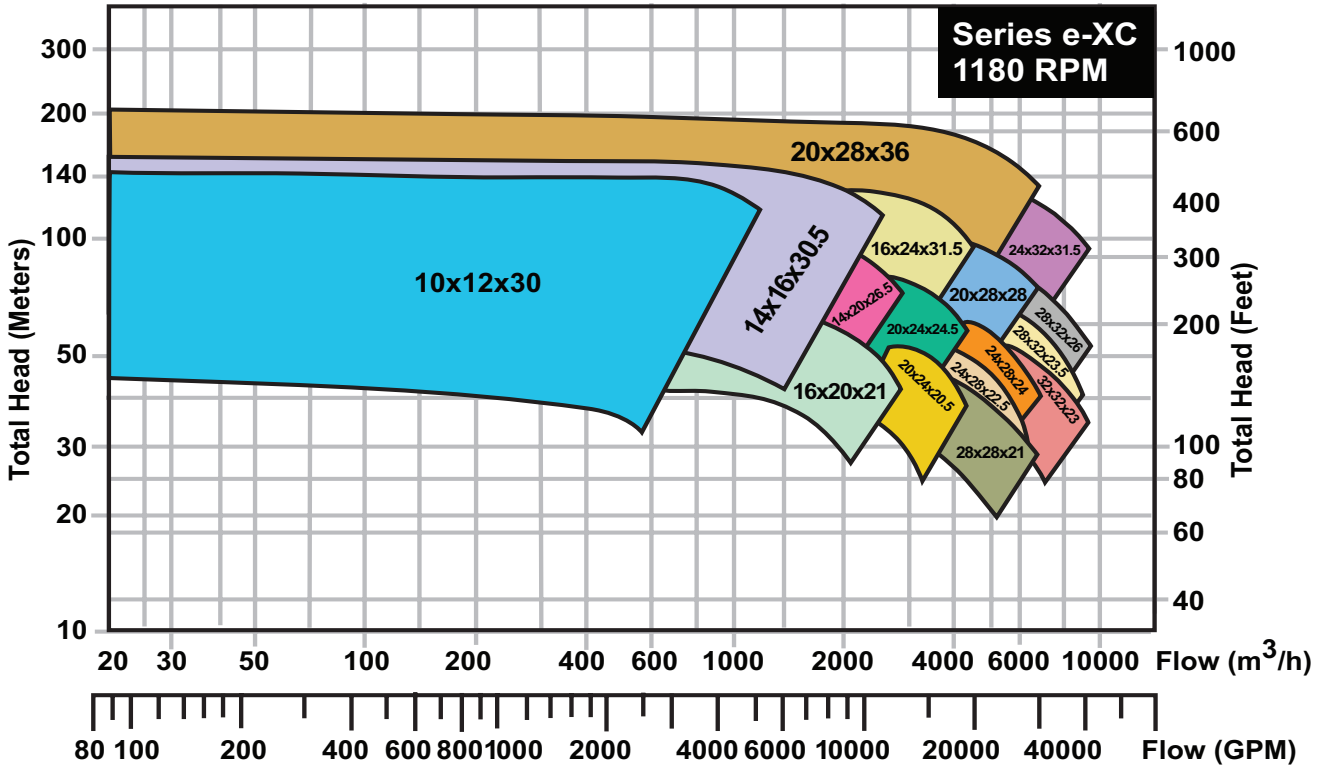
4-Pole



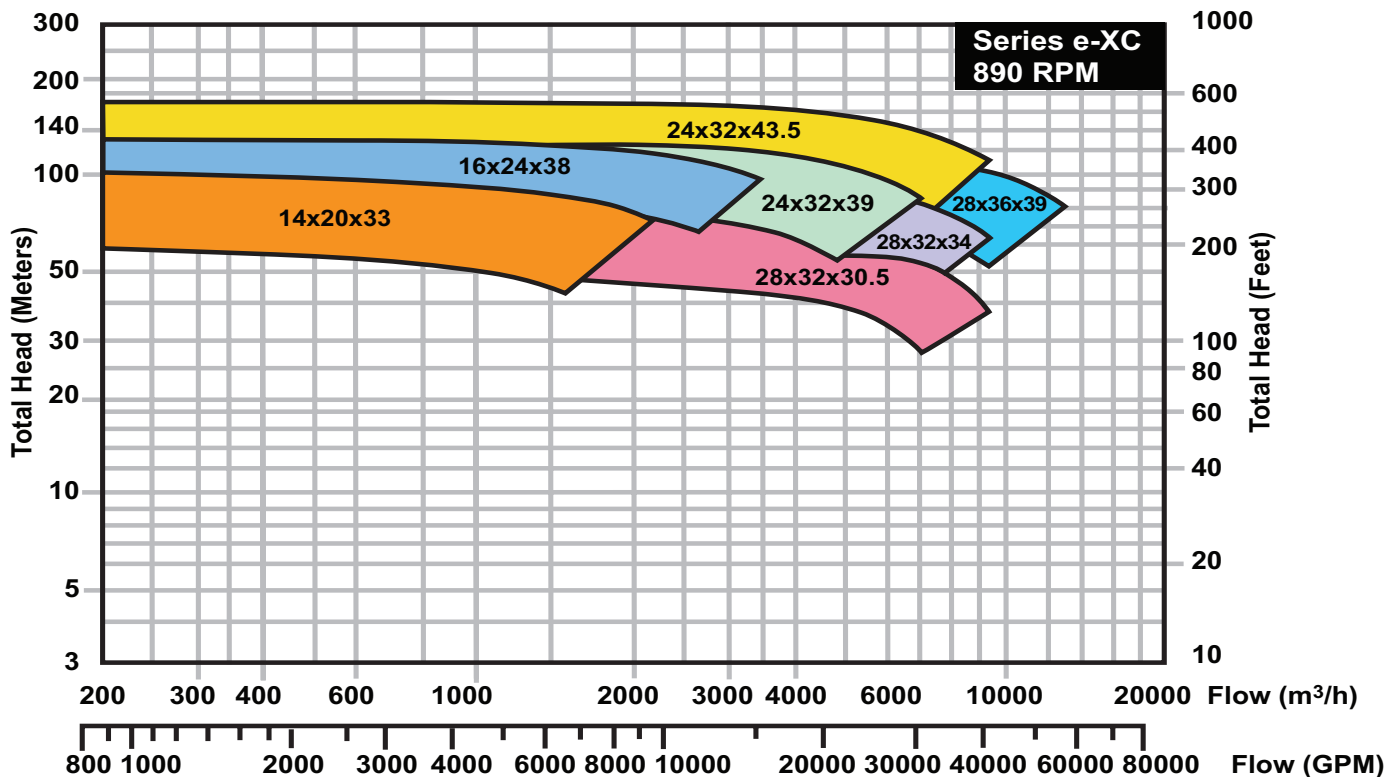
Every e-XC pump has two distinct impeller designs - i.e. the 3x5x8.5 model is also available as 3x5x8. See individual performance curves for more details.

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		–			

¹Optional component with a standard material configuration

²For mechanical seal material configuration details, see ‘Mechanical Seals’ section



* Standard construction (dry shaft) cast iron, ductile iron or CF8 (316 SS) enclosed e-XC pumps, fitted with either CF8 (304 SS) or CF8M (316 SS) impeller and impeller wear rings, and bronze casing wear rings are certified to both NSF/ANSI/CAN 61 and 372 standards. Standard construction pumps are certified for use with either MR3 (C/SiC/EPDM or SiC/SiC/EPDM) metal pusher and MR4 (C/SiC/EPDM) rubber bellow mechanical seals. Optional wet shaft construction e-XC pumps with either 420 SS shaft with the same casing, impeller assembly, and mechanical seal configurations listed above are also certified to NSF/ANSI/CAN 61 and 372 standards.

Sealing Solutions

Packing

PTFE lantern ring with style 608D graphite packing²
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/EPDM³
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

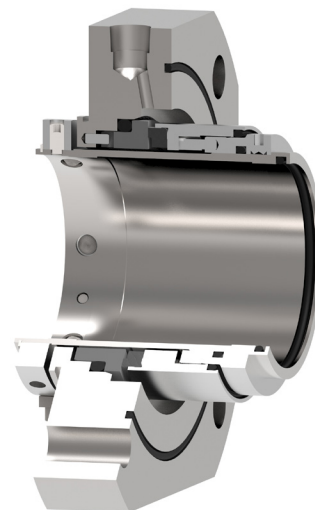
All e-XC pumps include plan 11 flushing (standard) which ensures seal components stay clear of debris and extends seal life. Plan 11 flushing diverts water traveling through the pump volute into either seal faces or packing glands.



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

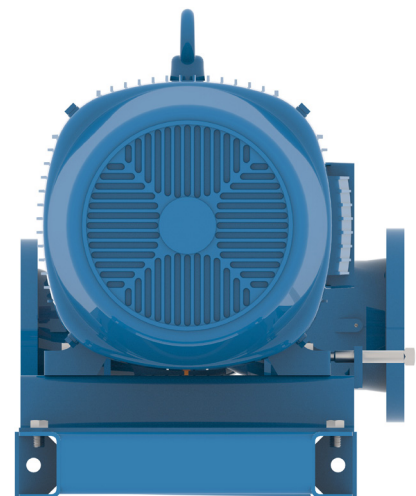
COUPLING TYPE	STANDARD		OPTIONAL		
	Spacer	N/A		Duraflex®	Falk Steelflex®
Non-Spacer	Duraflex®	Falk Steelflex® ¹	Falk Steelflex®		Falk Gear Type

¹Standard only if Duraflex® coupling size is not available

Baseplate and Coupling Guard

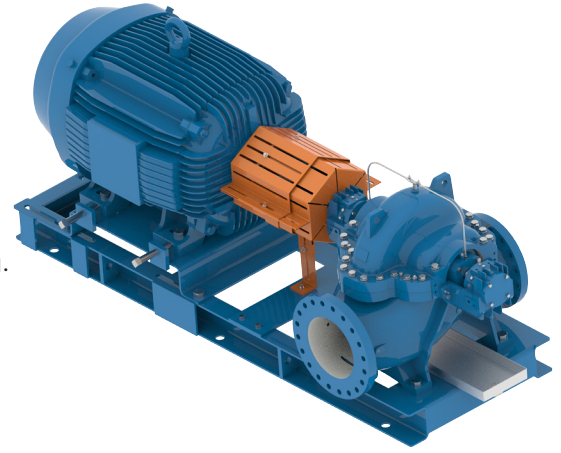
ITEM	FEATURES
Baseplate	Grouted Formed steel frame Alignment jacking screws ¹
Coupling Guard	ANSI/OSHA compliant Scratch resistant powder coating
Drip Pan (Optional)	Galvanized steel

¹Alignment 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.



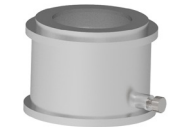
Pump Accessories



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.



Drinking Water
Low Lead Content
NSF/ANSI 61 & 372
File#: 009553_0_000

NSF/ANSI 61 (*Drinking Water System Components - Health Effects*) is a certification standard for products that come into contact with drinking water. NSF/ANSI 372 (*Drinking Water System Components - Lead Content*) verifies the lead content of drinking water products meets levels determined by the Safe Drinking Water Act. These requirements are based on EPA and Health Canada Requirement.



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