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 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)
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

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.

8-Pole
# Materials of Construction

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>STANDARD OPTION</th>
<th>OTHER AVAILABLE OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cast Iron NO. 35</td>
<td>Ductile Iron 65-45-12</td>
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<tr>
<td>Casing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shaft (seal on shaft)³</td>
<td>420 SS</td>
<td></td>
</tr>
<tr>
<td>Shaft (seal on sleeve)</td>
<td>5140</td>
<td></td>
</tr>
<tr>
<td>Impeller</td>
<td>304 SS</td>
<td>–</td>
</tr>
<tr>
<td>Impeller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing wear rings</td>
<td>Bronze C90300</td>
<td>304 SS</td>
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<tr>
<td>Imp. wear rings</td>
<td>304 SS</td>
<td>–</td>
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<tr>
<td>Imp. wear rings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shaft sleeves</td>
<td>304 SS</td>
<td>316 SS</td>
</tr>
<tr>
<td>Shaft sleeve nuts</td>
<td>304 SS</td>
<td>316 SS</td>
</tr>
<tr>
<td>Packing¹</td>
<td>Style 608D Graphite</td>
<td>–</td>
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<tr>
<td>Lantern ring¹</td>
<td>PTFE</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Seal flush lines</td>
<td>304 SS</td>
<td>316 SS</td>
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<tr>
<td>Mechanical seal type²</td>
<td>MR3</td>
<td>MR4</td>
</tr>
<tr>
<td>Other casted components</td>
<td>Cast Iron NO. 30</td>
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<tr>
<td>Bearings</td>
<td>Steel</td>
<td>–</td>
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<tr>
<td>Bolts</td>
<td>Steel</td>
<td>–</td>
</tr>
<tr>
<td>Pipe Plugs</td>
<td>Steel</td>
<td>–</td>
</tr>
<tr>
<td>“O” Rings</td>
<td>Rubber (FKM)</td>
<td>–</td>
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<tr>
<td>Gaskets</td>
<td>Fish Paper</td>
<td>–</td>
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<tr>
<td>Retaining ring</td>
<td>304 SS</td>
<td>–</td>
</tr>
<tr>
<td>Shoulder rings</td>
<td>Steel</td>
<td>–</td>
</tr>
<tr>
<td>Protective Guard</td>
<td>Steel</td>
<td>–</td>
</tr>
</tbody>
</table>

³Optional component with a standard material configuration

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

**Packing**
PTFE lantern ring with style 608D graphite packing
Up to 300 psi [20.7 bar]

**MR4**
Unbalanced unitized industrial rubber bellow seal
Up to 4" [110 mm] and 175 psi [12 bar]

**MR3**
Balanced industrial metal pusher seal
Up to 8.25" [210 mm] and 450 psi [31 bar]

**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]

**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
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.
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**

<table>
<thead>
<tr>
<th>COUPLING TYPE</th>
<th>STANDARD</th>
<th>OPTIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spacer</td>
<td>N/A</td>
<td>Duraflex®</td>
</tr>
<tr>
<td>Non-Spacer</td>
<td>Duraflex®</td>
<td>Falk Steelflex®</td>
</tr>
</tbody>
</table>

1Standard only if Duraflex® coupling size is not available

**Baseplate and Coupling Guard**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseplate</td>
<td>Grouted</td>
</tr>
<tr>
<td></td>
<td>Formed steel frame</td>
</tr>
<tr>
<td></td>
<td>Alignment jacking screws¹</td>
</tr>
<tr>
<td>Coupling Guard</td>
<td>ANSI/OSHA compliant</td>
</tr>
<tr>
<td></td>
<td>Scratch resistant powder coating</td>
</tr>
<tr>
<td>Drip Pan (Optional)</td>
<td>Galvanized steel</td>
</tr>
</tbody>
</table>

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.