**PERFORMANCE**

3450 rpm, 60 Hz

![Graph showing flow, head, and NPSHR data](image)

2900 rpm, 50 Hz

![Graph showing flow, head, and NPSHR data](image)

**FEATURES**

- Durable, corrosion-resistant Tefzel® lined ductile iron casing
- Casing meets ANSI B73.1m for foot and flange location
- Powerful neodymium magnets drive the impeller for dependable, leak-free operation with no environmental emissions
- Modified concentric volute reduces radial thrust load
- Rear sealing ring and balance holes balance axial thrust
- Dual bushings provide optimum alignment
- Carbon-filled ETFE shaft support with integral straightening vanes helps prevent pre-rotation in the suction and enhances low flow operation
- Easy-set measurement free outer drive
- Back pull-out design
- Casing drain connection standard
- Run dry capability with carbon bushing and SiC dri-coat
- Specific gravity over 1.8
- Accepts standard NEMA 143, 184, 215, 256 or IEC 80, 90, 110/112, 132, 160 motor frames
- ANSI or ISO flange mountable
- ATEX certified models available

**TYPICAL APPLICATIONS**

- Chemical manufacturing, blending, distribution
- Water treatment
- Plating and metal finishing
- Paper mills
- Fume scrubbers
- Metals manufacturing
- Electronics
- Pharmaceuticals
- Biodiesel

**TYPICAL CHEMICALS**

- Sodium hydroxide
- Sulfuric acid
- Hydrochloric acid
- Sodium hypochlorite
- Plating solutions
- Corrosive blends
- Solvents
- Wastewater

* Patent No. 5,779,456

*Tefzel® Fluoropolymer Resin is a registered trademark of DuPont
### Item No. | Description | Construction
--- | --- | ---
1 | Casing | Cast ductile iron, DuPont Tefzel® (ETFE) lined
2 | Shaft support | Carbon fiber filled ETFE
2A | Front thrust ring | Alpha sintered silicon carbide
3 | Impeller | Carbon fiber filled ETFE
3A | Impeller thrust washer | Fluorosint®, alpha sintered silicon carbide optional
4 | Inner drive | Neodymium iron boron magnets encapsulated in pure ETFE
4A | Bushing options | Alpha sintered silicon carbide, carbon
4B | Bushing spacer | PTFE
4C | Rear sealing ring | Molybdenum disulfide-filled PTFE
5 | Shaft | Alpha sintered silicon carbide
6 | Barrier | Molded carbon fiber filled ETFE liner with woven glass reinforced vinyl ester external shell
6A | Barrier thrust ring | High purity alumina ceramic
7 | Clamp ring | Steel
8 | Outer drive magnet | Nickel-plated neodymium iron boron magnets/steel
9 | Motor adapter | Ductile iron
10 | O-ring options | FKM, EPDM, Kalrez®, Simriz®

### SPECIFICATIONS

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<tr>
<td>3 - 20 (1.1 - 15.0)</td>
<td>4 1/2, 5, 5 1/2, 6, 6 3/8</td>
<td>11.4, 12.7, 14, 15.2, 16.2</td>
<td>3 (7.62)</td>
<td>2 (5.01)</td>
<td>327.3</td>
<td>58.6</td>
<td>166.7</td>
<td>34.9</td>
<td>175 (12)</td>
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Note: Impeller trims available every 1/8” (.32 cm) between the smallest and largest diameters.

### DIMENSIONS

**FRONT VIEW**

**SIDE VIEW**

**BOTTOM VIEW**

**ACCESSORIES**

- **Bronze Bump Ring** - adds to the motor adapter to make pump suitable for hazardous areas.
- **M20 Power Monitor** - Shuts the pump down when there is a drop in power to prevent run dry damage.
- **SiC Dri-Coat** (for shaft and bushings) is ideal protection for applications where the pump may see unintentional, brief periods of dry running.
- **Baseplate** - fabricated of steel or fiberglass for extra strength and rigidity. Suitable for grouting. Shown with optional bearing frame.