ANSI DIMENSIONAL MAGNETIC DRIVE PUMPS

UC SERIES: MODEL UC1516

• 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

* Tefzel® Fluoropolymer Resin is a registered trademark of DuPont
### Item No. | Description | Construction |
--- | --- | --- |
1 | Casing | Cast ductile iron, DuPont Tefzel® (ETF) 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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<td>3 - 20 (1.1 - 15.0)</td>
<td>4, 4 1/2, 5, 5 1/2, 6, 6 3/8</td>
<td>10.2, 11.4, 12.7, 14, 15.2, 16.2</td>
<td>1 1/2 (3.81)</td>
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<td>37.9</td>
<td>180</td>
<td>55</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**: add to the motor adapter to make pump suitable for hazardous areas.
- **SiC Dri-Coat**: for shaft and bushings, ideal protection for applications where the pump may see unintentional, brief periods of dry running. Fabricated of ceramic or diamond, highly resistant to wear.
- **Baseplate**: fabricated of steel or fiberglass for extra strength and rigidity. Suitable for grouting. Shown with optional bearing frame.
- **M20 Power Monitor**: shuts the pump down when there is a drop in power to prevent run dry damage.

*Contact the factory for 132/160 dimension. All other frame sizes are as shown above. Dimensions are for reference only.*