



MATERIALS OF CONSTRUCTION
Models: MAGNES SERIES - MS3

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NOTE: Temperature and viscosity ratings given below apply to individual components **Only**. For actual maximum temperatures and viscosities for the rated pump, see "**Operating Limits**" on backside.

PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Heads	17-4 PH Stainless Steel	
Cylinder	316 Stainless Steel	
Driven Hub (Wetted)	17-4 PH Stainless Steel	
Driving Hub	Ductile Iron, ASTM A536	
Bearing Cover	304 Stainless Steel	
Sleeve Bearings	Metal Impregnated Graphite	
Rotor & Shaft		
Rotor	17-4 PH Stainless Steel (Thrust Bushing Pads: Carbon)	
Shaft	17-4 PH Stainless Steel (Tungsten Carbide/Cobalt Coating)	
Bearing Housing	Cast Iron, ASTM A48	
Relief Valve Spring	Stainless Steel	
R/V Spring Ranges	51-110 psi	111-150 psi 151-200 psi
O-Rings / Seal Rings	FKM	PTFE
Capscrews	316 Stainless Steel (Wetted)	
Vanes	Duravane - Full Size with 316 Stainless Steel wear plate to 240°F (115°C)	Laminate – Stainless Steel Wear Plane
Relief Valve	316 Stainless Steel, PTFE coated	
Push Rods	Nitronic "60" [®] Chrome Plated	
Magnet Housing	Cast Iron	
Magnet Assembly		
Inner Magnet	Neodymium Iron Boron	
Outer Magnet	Neodymium Iron Boron	
Containment Can	PEEK Composite	
Hub Sleeve	316 Stainless Steel	
Driven Key (Wetted)	17-4 PH Stainless Steel	
Gage Ports	1/4" NPT	

Centipoise (cP) = centistokes (cSt) at fluid specific gravity of 1.0.

[®]Nitronic "60" is a trademark of Armco Steel, Inc.

Models: MS3

PIPE COMPANION FLANGES

PUMP SIZE	STANDARD¹	OPTIONAL
MS3	3" Weld Flanges, Stainless Steel CF8M	3" Stainless Steel (CF8M) ANSI 150 lb Compatible RF Flanges

OPERATING LIMITS

	STANDARD MATERIALS	OPTIONAL MATERIALS
Maximum Temperature	-30°F (-34°C) to 250°F (121°C)	Consult Factory for higher temperature ratings.
Maximum Viscosity	500 Cp	Some viscosities may have differential pressure limits; consult performance curves for limits. Consult Factory for higher viscosity ratings.
Maximum Pump Speed	640 rpm	
Maximum Differential Pressure	200 psi	Differential pressure may be limited for certain viscosities; consult performance curves for limits.
Maximum Working Pressure	225 psi	

Centipoise (cP) = centistokes (cSt) at fluid specific gravity of 1.0.

