

MATERIALS OF CONSTRUCTION Models: MAGNES SERIES - MI4

Page Number	er 110-093	
Effectiv	e Jun 2022	
Replace	es Mar 2021	
Section	n 110	

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		Ductile Iron, ASTM A536	
Cylinder		Cast Iron, ASTM A48	Ductile Iron (Horizontal Port)
Driven Hub (Wetted)		Steel	
Driving Hub		Ductile Iron, ASTM A536	
Bearing Cover		Steel	
Sleeve Bearings		Metal Impregnated Graphite	
Rotor & Shaft Rotor		Ductile Iron, ASTM A48	
Shaft		Steel	
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	3	FKM	PTFE, Buna-N
Capscrews		Steel	
Vanes		Duravane - Full Size with 316 Stainless Steel wear plate to 240°F (115°C) (150 psi differential pressure maximum)	Laminate – Stainless Steel Wear Plane (200 psi differential pressure maximum) Enduravane - Full Size with
			316 Stainless Steel wear plate to 240°F (115°C) (200 psi differential pressure maximum)
Relief Valve		Cast Iron	
Push Rods		Steel	
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.

PIPE COMPANION FLANGES

PUMP SIZE	STANDARD ¹	OPTIONAL
MI4	4" Cast Iron, ASTM A48, NPT Tapped	4" Steel Weld, ASTM A105
		4" Ductile Iron, ANSI 150 lb Compatible RF Flanges

OPERATING LIMITS

	STANDARD MATERIALS	OPTIONAL MATERIALS
Maximum Temperature	-30°F (-29°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	537 rpm	
Maximum Differential Pressure	150 psi	200 pis – Requires Laminate Vanes or Enduravanes
		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.

