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Section	104

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**".

PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Cylinder, Heads	316 Stainless Steel: ASTM A743, CF-8M	
Bearing Covers	Steel: Zinc Plated	
Bearings	Single Ball Bearing, Grease Lubricated to 300°F (149°C)	
Rotor & Shaft		
Rotor	316 Stainless Steel	
Shaft	17-4 PH Stainless Steel	
Relief Valve (R/V)	316 Stainless Steel: ASTM A743, CF-8M	
Relief Valve Cover	316 Stainless Steel: ASTM A743, CF-8M	
Relief Valve Cap	316 Stainless Steel	
Relief Valve Spring	Stainless Steel to 500°F (260°C)	
R/V Spring Ranges	76-110 psi (5.2-7.6 bar)	Springs range from 51 – 125 psi (3.5 – 8.6 bar). See Parts Lists.
Bolts	316 Stainless Steel (Metric)	
O-Rings / Seal Rings	PTFE to 500°F (260°C)	
Vanes	Duravane® - With 316 stainless steel wear plate to 240°F (115°C); 20,000 SSU (4,250 cP) Max.	
Push Rods	Nitronic "60"® Hard Chrome Plated	
Mechanical Seals		
Stationary O-Ring	PTFE to 500°F (260°C)	
Stationary Seat	316 Stainless Steel: ASTM A743, CF-8M with Silicon Carbide Insert	
Rotating O-Ring / Seal Ring	PTFE Seal Ring to 500°F (260°C)	
Rotating Seal Face	Carbon to 20,000 SSU (4,250 cP) Max.	
Seal Jacket, Spring	Inconel	
Seal Jacket	304 Stainless Steel	
Gage Ports	1/4" BSPP (British Standard Pipe Parallel)	
Pipe Flanges	3" Butt Weld Stainless Steel CF8M	3" ANSI Compatible (150# RF)

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

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OPERATING LIMITS

Maximum Temperature	240°F (115°C)
Minimum Temperature	-25°F (-31°C)
Maximum Viscosity	20,000 SSU (4,250 cP)
Maximum Differential Pressure*	125 psi (8.6 Bar)
Maximum Working Pressure	175 psi (12.1 Bar)
Maximum Torque	2,275 lb-in (258 Nm)

* Maximum Relief Valve Setting