

MATERIALS OF CONSTRUCTION Models: XRL1.25A, XL1.25A, XL1.5A, XRLF1.25B, XLF1.25B, XLF1.5B

Page Number	107-091
Effective	Dec 2015
Replaces	Oct 2015
Section	107

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.

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PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Casing, Heads, Relief Valve Cover	Ductile Iron: ASTM 536	
Discs, Bearing Covers, Liner	Cast Iron: ASTM A48	
Rotor & Shaft		
Rotor	Ductile Iron: ASTM 536	
Shaft	High Strength Steel	
Bearings	Single Ball Bearing; Grease Lubricated, to 300°F (149°C) Max.	
Relief Valve (R/V)	Cast Iron	Nickel Plated Cast Iron
Relief Valve Spring R/V Spring Ranges	Plated Steel 20-50 psi (138-345 kPa) 51-80 psi (352-552 kPa) 81-150 psi (558-1034 kPa)	
O-Rings: Other than Mechanical Seal	Fluorocarbon (FKM) to 400°F (204°C)	PTFE to 500°F (260°C) Buna-N to 240°F (115°C)
Gaskets	Fiber to 300°F (149°C)	,
Vanes	Duravane - Full Size with Stainless Steel Wear Plate to 240°F (115°C); 20,000 SSU (4,250 cP) Maximum.	EC Laminate - Extra-Clearance to 350°F (176°C); 40,000 SSU (8,500 cP) Max.
Push Rods	Case Hardened Steel	
Mechanical Seals Stationary O-Ring	FKM to 400°F (204°C)	PTFE, Buna-N
Stationary Seat	Hardened Steel	Silicon Carbide
Rotating O-Ring / Seal Ring	FKM to 400°F (204°C)	PTFE Seal Ring, Buna-N
Rotating Seal Face	Carbon - 20,000 SSU (4,250 cP) Max.	5 ,
Seal Jacket	Plated Steel	
Seal Spring	Stainless Steel	
Gage Ports	1/4" NPT	

PIPE CONNECTIONS

PUMP SIZE	STANDARD
1.25	1 1/4" NPT Tapped Ports
1.5	1 ½" NPT Tapped Ports

OPERATING LIMITS

	STANDARD MATERIALS	OPTIONAL MATERIALS
Maximum Temperature	240°F (115°C)	300°F (149°C): w/ FKM or PTFE O- Rings and EC-Laminate Vanes. Note: Temperature is limited by ball bearings
Minimum Temperature	-25°F (-31°C)	
Maximum Viscosity	20,000 SSU (4,250 cP)	
Maximum Differential Pressure*	150 psi (10.3 Bar)	
Maximum Working Pressure	350 psi (24.1 Bar)	

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

^{*} Maximum Relief Valve Setting