



MATERIALS OF CONSTRUCTION
Models: XF1C, XF1PC
XB1C, XB1PC

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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
Cylinder, Head	Ductile Iron: ASTM 536	
Bearing Cover	Cast Iron: ASTM A48	
Bearings	Single Row Ball Bearing; Grease Lubricated, to 300°F (149°C) Max.	
Locknut and Lockwasher	Steel	
Rotor & Shaft		
Rotor	Ductile Iron: ASTM 536	
Shaft	High Strength Steel	
Relief Valve (R/V)	Steel	
Relief Valve Cover	Steel: ASTM A108	
Relief Valve Spring	Nickel Plated Steel	
R/V Spring Ranges	66-125 psi (4.6-8.6 bar)	Springs range from 35-65 psi (2.4-4.5 bar). See Parts Lists
O-Rings: Other than Mechanical Seal	Fluorocarbon (FKM) to 400°F (204°C)	
Gaskets	Fiber to 300°F (149°C)	
Vanes	Duravane - Full Size, No Wear Plate to 240°F (115°C)	
Mechanical Seals		
Stationary O-Ring	FKM to 400°F (204°C)	
Stationary Seat	Hardened Steel	
Rotating O-Ring / Seal Ring	FKM to 400°F (204°C)	PTFE Seal Ring
Rotating Seal Face	Carbon	
Seal Jacket	Plated Steel	
Seal Spring	Stainless Steel	
Pipe Connections	1" NPT Tapped Ports	
Bypass Return Port	3/4 NPT Tapped	
Gage Ports	1/4" NPT	

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

OPERATING LIMITS

Maximum Temperature	240°F (115°C)
Maximum Viscosity	XF1, XB Models: 5,000 SSU (1,050 cP) XF1P, XB1P Models: 2,500 SSU (525 cP)
Maximum Differential Pressure*	125 psi (8.6 Bar)
Maximum Working Pressure	350 psi (24.1 Bar)

* Maximum Relief Valve Setting