



MATERIALS of CONSTRUCTION
X1220A & X1225A

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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, Heads, Relief Valve Cover	Cast Iron: ASTM A48	
Bearing Covers	Steel	Bearing Cover/Spacer with Hydraulic Motor Adapter (Cast Aluminum) and Coupling (Steel).-
Bearings	Ball (Single Row), Grease Lubricated, to 300°F (149°C) Max.	
Rotor & Shaft	Double End Keyed Shaft	
Rotor	Ductile Iron: ASTM A536	
Shaft	High Strength Steel	
Relief Valve	Iron: ASTM A48	Nickel Plated Cast Iron: ASTM A48 Piston Air Valve (1225 only)
Relief Valve Cap	Steel: ASTM A29	
Relief Valve Spring	Plated Steel	
Relief Valve Spring Ranges	36-50 PSI (2.48-3.45 bar) 51-75 PSI (3.51-5.17 bar) 76-110 PSI (5.24-7.58 bar)	
O-Rings (other than seal)	Fluorocarbon (FKM)	Polytetrafluoroethylene (PTFE) Ethylene Propylene (EPDM)
Gaskets	Composition to 500°F (260°C)	
Vanes	Duravane - Full Size with 316 Stainless Steel Wear Plate to 240°F (115°C); 20,000 SSU (4,250 cP) Maximum.	
Mechanical Seals		PTFE or EPDM
O-Rings	FKM	
Stationary Seat	Cast Iron	
Rotating Seal Face	Carbon	
Seal Jacket & Spring	Plated Steel	
Gage Ports	1/4" NPT	

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

MATERIALS OF CONSTRUCTION

Models: X1220A & X1225A

PIPE COMPANION FLANGES

PUMP SIZE	STANDARD	OPTIONAL
XD1220A	Two 2" NPT Tapped Flanges, Cast Iron: ASTM A48	2" Weld Flanges, Steel: ASTM A216 WCB 2" ANSI Flanges, Ductile Iron: ASTM A536
XD1225A	Two 2½" NPT Tapped Flanges, Cast Iron: ASTM A48	2½" Weld Flanges, Steel: ASTM A216 WCB 2½" or 3" ANSI type grooved flanges, Ductile Iron: ASTM A536

OPERATING LIMITS

	STANDARD MATERIALS
Maximum Temperature	240°F (115°C)
Minimum Temperature	-25°F (-31°C)
Maximum Viscosity	100 SSU (20 cP)
Maximum Speed	1200 RPM
Minimum Speed	800 RPM
Maximum Differential Pressure*	125 PSI (8.62 Bar)
Maximum Working Pressure	175 PSI (12.07 Bar)

* Maximum Relief Valve Setting

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