



MATERIALS of CONSTRUCTION
 TXD1220A, TXD1225A, TXD1230A

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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	1220, 1225 1230	Steel Ductile Iron: ASTM A536
Relief Valve Spring	Plated Steel	
Relief Valve Spring Ranges	76-110 PSI (5.24-7.58 bar)	Optional springs range from 35-125 PSI (2.41-8.62 bar). See Parts List.
O-Rings (other than seal)	Fluorocarbon (FKM)	
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.	
Push Rods	1220, 1225 1230	Not Used Non-metallic composite
Mechanical Seals		
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: TXD1220A, TXD1225A, TXD1230A

PIPE COMPANION FLANGES

PUMP SIZE	STANDARD	OPTIONAL
TXD1220A	Two 2" NPT Tapped Flanges, Cast Iron: ASTM A48	2" Weld Flanges, Steel: ASTM A216 WCB 2" Victaulic type grooved flanges, Ductile Iron: ASTM A536
TXD1225A	Two 2½" NPT Tapped Flanges, Cast Iron: ASTM A48	2½" Weld Flanges, Steel: ASTM A216 WCB 2" NPT Tapped Flanges, Cast Iron: ASTM A48 2", 2½" or 3" Victaulic type grooved flanges, Ductile Iron: ASTM A536
TXD1230A	Two 3" NPT Tapped Flanges, Cast Iron: ASTM A48	3" Weld Flanges, Steel: ASTM A216 WCB 3" Untapped Flanges, Cast Iron: ASTM A48 3" Victaulic 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 (1220, 1225) 900 RPM (1230)
Minimum Speed	800 RPM (1220, 1225) 260 RPM (1230)
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.

