

Page Number	202-091
Effective	May 2011
Replaces	Feb 2010
Section	202

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, Relie	f Valve Cover	Cast Iron: ASTM A48	
Bearing Covers		Steel	Bearing Cover/Spacer with Hydraulic Motor Adapter (Cast Aluminum) and Coupling (Steel).
Bearings		Single Ball Bearing; Grease Lubricated	
Bearing Grease		Exxon Polyrex or Mobil - Mobil Poly 372	
Rotor & Shaft			
Rotor		Ductile Iron: ASTM 536	
Shaft		High Strength Steel – Double Ended	
Bearing Locknut and L	-ockwasher	Steel	
Relief Valve (R/V)		Cast Iron ASTM A48	Nickel Plated Cast Iron ASTM A48
Relief Valve Cap	TXV2.5B	Steel	
	TXV3B	Ductile Iron: ASTM 536	
Relief Valve Spring		Plated Steel	
R/V Spring Ranges		76 -110 psi (5.24 -7.58 bar)	Optional springs range from 51 -125 psi (3.52 – 8.62 bar) See Parts List.
Head O-Rings		FKM to 400°F (204°C)	PTFE to 500°F (260°C)
Gaskets		Composition to 500°F (260°C)	
Vanes		EC Bronze - to 500°F (260°C); 500 SSU (105 cP) Minimum.	Duravane - With 316 Stainless Steel Wear Plate to 240°F (115°C); 20,000 SSU (4,250 cP) Maximum.
			EC Laminate - Extra-Clearance with Stainless Steel Wear Plate to 350°F (176°C); 40,000 SSU (8,500 cP) Max.
Push Rods		Case Hardened Steel	
Lip Seals		PTFE Lip Seal with FKM O-ring	PTFE Lip Seal with PTFE O-ring
Housing - Lip Seals		Cast Iron: ASTM A48	
O-rings, Lip Seal Hou	using	FKM to 400°F (204°C)	PTFE to 500°F (260°C)

Optional Mechanical Seals	IVCV	IVBV
Stationary O-Ring	FKM to 400°F (204°C)	FKM to 400°F (204°C)
Stationary Seat	Cast Iron	Cast Iron
Rotating O-Ring / Seal Ring	FKM to 400°F (204°C)	FKM to 400°F (204°C)
Rotating Seal Face	Carbon	Bronze
Seal Jacket, Spring	Plated Steel	Plated Steel

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

MATERIALS OF CONSTRUCTION

Models: TXV2.5B, TXV3B

GAGE PORTS

	Gage Ports	1/4" NPT
--	------------	----------

PIPE COMPANION FLANGES

PUMP SIZE	STANDARD	OPTIONAL
TXV2.5B	2.5" Cast Iron, NPT Tapped	2.5" Weld, Steel ASTM A216 WCB
TXV3B	3" Cast Iron, NPT Tapped	3" Weld, Steel ASTM A216 WCB

OPERATING LIMITS

	STANDARD MATERIALS	OPTIONAL MATERIALS
Maximum Fluid Temperature	375°F (190°C)	240°F (115°C) With Duravanes
		350°F (176°C) with Laminate Vanes
Maximum Environmental Temperature	200°F (93°C)	
Maximum Fluid Viscosity	50,000 SSU (10,500 cP)	20,000 SSU (4,250 cP) with Duravanes
		40,000 SSU (8,500 cP) with Laminate Vanes
		(For higher viscosities, consult the factory)
Maximum Differential Pressure*	125 psi (8.6 Bar)	
Maximum Working Pressure	175 psi (12.1 Bar)	

^{*} Maximum Relief Valve Setting

