



MATERIALS OF CONSTRUCTION
Models: XL2B, XL3B, XL4C

Page Number	107-093
Effective	Jul 2018
Replaces	Dec 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.

PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Casing, Heads, Relief Valve Cover	Ductile Iron: ASTM 536	
Liner	XL2B, XL3B Ductile Iron: ASTM 536	
	XL4C Cast Iron: ASTM A48	
Discs	Cast Iron: ASTM A48	
Bearing Covers	Steel	
Bearings	Single Row Ball Bearing; Grease Lubricated, to 300°F (149°C) Max.	
Locknuts and Lockwasher	Steel	
Rotor & Shaft		
Rotor	Ductile Iron: ASTM 536	
Shaft	High Strength Steel	
Relief Valve (R/V)	XL2B, XL3B Cast Iron: ASTM A48	
	XL4C Plated Cast Iron: ASTM A48	
Relief Valve Cap	Ductile Iron: ASTM 536	
Relief Valve Spring	Plated Steel	
R/V Spring Ranges	51 - 75 psi (3.5 - 5.2 bar)	Optional springs range from 51 - 150 psi (3.5 - 10.3 bar) - See Parts List.
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 316 Stainless Steel Wear Plate to 240°F (115°C); 20,000 SSU (4,250 cP) Maximum.	EC Cast Iron - Extra-Clearance to 500°F (260°C); 500 SSU (105 cP) Min. 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 to 500°F (260°C) Buna-N to 240°F (115°C)
Stationary Seat	Hardened Steel	
Rotating O-Ring / Seal Ring	FKM to 400°F (204°C)	PTFE to 500°F (260°C) Buna-N to 240°F (115°C)
Rotating Seal Face	Carbon – 20,000 SSU (4,250 cP) Max.	
Seal Jacket	Plated Steel	
Seal Spring	Plated Steel	
Gage Ports	1/4" NPT	

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

Models: XL2B, XL3B, XL4C

GEARBOX (NORD N15)

Part Name	STD Materials
Body	Aluminum
Shafts	Steel
Gears	Steel
Bearings	Steel
Couplings	Plastic

PIPE COMPANION FLANGES

PUMP SIZE	STANDARD	OPTIONAL
XL2B	2" Ductile Iron, ASTM 536, NPT	2" Steel Weld: ASTM A216 WCB 2" ANSI, 150 lb. RF
XL3B	3" Ductile Iron, ASTM 536, NPT	3" Steel Weld: ASTM A216 WCB 3" ANSI, 150 lb. RF
XL4C	4" Steel Weld: ASTM A216 WCB	3" Ductile Iron ASTM 536, NPT

OPERATING LIMITS

	STANDARD MATERIALS	OPTIONAL MATERIALS
Maximum Temperature	240°F (115°C)	300°F (149°C) With FKM or PTFE O-Rings and Metal or 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

