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Section	105

NOTE: Temperature and viscosity ratings given below apply to individual components **Only.** For actual maximum temperatures and viscosities for the rated numbers as "Operating Limits" on backside

·		es for the rated pump, see "Operating	
PART NAME		STANDARD MATERIALS	AVAILABLE OPTIONS
Casing, Heads, Relief	Valve Cover	Ductile Iron: ASTM 536	
Liner		Hardened Ductile Iron	
Discs		Hardened Cast Iron: ASTM A48	
Bearing Covers		Steel	
Bearings		Single Ball Bearing; Grease Lubricated, to 300°F (149°C) Max.	
Locknuts and Lockwas	sher	Steel	
Rotor & Shaft			
Rotor		Extra Clearance (0.045" Reduced) Hard Ductile Iron: ASTM 536	XLW2 and XLW3: Full Size Hard Ductile Iron: ASTM 536
Shaft		High Strength Steel with Hard Chrome Plating in Mechanical Seal and Bearing Areas	
Relief Valve (R/V)	XLW2, XLW3	Cast Iron: ASTM A48	
	XLW4	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 Lists.
O-Rings: Other than M	echanical Seal	Fluorocarbon FKM to 400°F (204°C)	PTFE to 500°F (260°C)
Gaskets: Bearing Cove	er	Fiber to 300°F (149°C)	
Vanes		EC Hardened Cast Iron - Extra Clearance to 400°F (204°C); 500 SSU (105 cP) Minimum.	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)
Stationary Seat		Silicon Carbide	
Rotating O-Ring / Seal Ring		FKM to 400°F (204°C)	PTFE seal ring to 500°F (260°C)
Rotating Seal Face		Hardened Steel	XLW2 and XLW3: Silicon Carbide
Seal Jacket		Plated Steel	
Seal Spring		Plated Steel	
Gage Ports		1/4" NPT	

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

GEARBOX (NORD N15)

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

PIPE COMPANION FLANGES

PUMP SIZE	STANDARD	OPTIONAL ¹
XLW2	2" Ductile Iron, NPT Tapped:	2" Steel Weld: ASTM A216
	ASTM 536	ANSI: 2", 150 lb. RF
XLW3	3" Ductile Iron, NPT Tapped:	3" Steel Weld: ASTM A216
	ASTM 536	ANSI: 3", 150 lb. RF
XLW4	4" Steel Weld: ASTM A216 WCB	3" Ductile Iron ASTM 536, NPT

OPERATING LIMITS

0. 1.0				
		STANDARD MATERIALS	OPTIONAL MATERIALS	
Maximum Temperature		300°F (149°C)		
		NOTE: Temperature is limited by ball bearings		
Minimum Tempe	erature	-25°F (-31°C)		
Maximum Viscosity	XLW2, XLW3	75,000 SSU (15,750 cP)	20,000 SSU (4,250 cP) Maximum with Full Size Rotor & Shaft	
	XLW4	20,000 SSU (4,250 cP)		
Minimum Viscosity		500 SSU (105 cP)	30 SSU (1 cP) Minimum w/ Laminate Vanes	
Maximum Differential Pressure*		150 psi (10.3 Bar)		
Maximum Working Pressure		350 psi (24.1 Bar)		

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^{*} Maximum Relief Valve Setting