



MATERIALS of CONSTRUCTION
 Models: LGLD4A, TLGLF4B

Page Number	501-097
Effective	Jan 2006
Replaces	Jan 2002
Section	501

PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Casing, Heads, Relief Valve Cover, Relief Valve Cap	Ductile Iron: ASTM A536, 18%	
Liner, Discs	Cast Iron: ASTM A48	
Bearing Covers	Steel	
Bearings	Ball (Single Row), Grease Lubricated	
Bearing Locknut and Lockwasher	Steel	
Rotor & Shaft	Double End Keyed Shaft, 6-Vane Rotor	
Rotor	Ductile Iron: ASTM A536	
Shaft	High Strength Steel, AISI 41L40 or Equivalent	
Relief Valve	Plated Cast Iron: ASTM A48	
Relief Valve Spring	Plated Steel	
Relief Valve Spring Setting	150 psi (10.34 bar) Differential Pressure Adjustable 126-150 psi (8.69 - 10.34 bar)	
O-Rings: Other than Mechanical Seal	Buna-N	
Gaskets: Bearing Cover	Fiber	
Vanes	Duravane – Full Size with Stainless Steel Wear Plate	
Push Rods		
LGLD4A	Case Hardened Steel	
TLGLF4B	Non-metallic composite	
Mechanical Seals		
Stationary O-Ring	Buna-N	
Stationary Seat	Hardened Steel	
Rotating O-Ring	Buna-N	
Rotating Seal Face	Carbon	
Seal Jacket	Plated Steel	
Seal Spring	Stainless Steel	
Gage Ports	1/4" NPT	

MATERIALS OF CONSTRUCTION

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COMPANION FLANGES AND FLANGED ELBOWS

Pipe Connection		STANDARD	OPTIONAL
Intake Port	LGLD4A	4" Weld Flange, Steel: SAEJ435C-0030	3" NPT Flange, Ductile Iron: ASTM A536, 18% 3" Weld Flange, Steel: ASTM A216, WCB
	TLGLF4B	4" – 300 lb. ANSI Mounting Flange	----
Auxiliary Intake Port	LGLD4A	----	----
	TLGLF4B	Blanking Flange, Ductile Iron: ASTM A536, 18%	3" NPT Flange, Ductile Iron: ASTM A536, 18% 3" Weld Flange, Steel: ASTM A216, WCB 4" Weld Flange, Steel: SAEJ435C-0030
Discharge Port	LGLD4A	3" Weld Flange, Steel: ASTM A216, WCB	3" NPT Flange, Ductile Iron: ASTM A536, 18% 4" Weld Flange, Steel: SAEJ435C-0030
	TLGLF4B	Two 2" NPT Flanges, Ductile Iron: ASTM A536, 18%	Two 2" Weld Flanges, Steel: ASTM A216, WCB

OPERATING LIMITS

Maximum Differential Pressure	125 psi (8.62 Bar)
Maximum Working Pressure	350 psi (24.13 Bar) for LPG and NH ₃ Service (Limited by U.L. and NFPA 58)

