



**MATERIALS of CONSTRUCTION**  
**Models: LGLD2E, LGLH2A, LGLD3F**

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PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Casing, Heads, Relief Valve Cover	Ductile Iron: ASTM A536	
Discs, Liner	Cast Iron: ASTM A48	
Bearing Covers	Steel	
Bearings	LGLD2, LGLD3 Ball (Single Row), Grease Lubricated	
	LGLH2 Spherical Roller (Single Row), Grease Lubricated	
Bearing Locknut and Lockwasher	Steel	
<b>Rotor &amp; Shaft</b>	Double End Keyed Shaft, 6-Vane Rotor	
Rotor	Ductile Iron: ASTM A536	
Shaft	High Strength Steel	
Relief Valve	Cast Iron: ASTM A48	
Relief Valve Spring	Plated Steel	
Relief Valve Spring Setting	LGLD2, LGLD3 150 psi (10.34 Bar) Differential Pressure Non-Adjustable	
	LGLH2 190 PSI (13.1 Bar) Differential Pressure Non-Adjustable	
O-Rings: Other than Mechanical Seal	Buna-N	
Gaskets: Bearing Cover	Fiber	
<b>Vanes</b>	Duravane – Full Size with Stainless Steel Wear Plate	
Push Rods	LGLH2 Casing Hardened Steel	
	LGLD2, LGLD3 Non-metallic composite	
<b>Mechanical Seals</b>		
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	
Companion Flanges	LGLD2, LGLH2 <b>Two 2" NPT</b> Flanges, Ductile Iron: ASTM A536	<b>Two 2" Weld</b> Flanges, Steel: ASTM A216 WCB
	LGLD3 <b>Two 3" NPT</b> Flanges, Ductile Iron: ASTM A536	<b>Two 3" Weld</b> Flanges, Steel: ASTM A216 WCB
Gage Ports	1/4" NPT Tapped	

**OPERATING LIMITS**

Maximum Differential Pressure	LGLD2, LGLD3 125 psi (8.62 Bar) (RV setting minus 25 psi / 1.7 Bar)
	LGLH2 165 PSI (11.4 Bar) (RV setting minus 25 psi / 1.7 Bar)
Maximum Working Pressure	LGLD2, LGLD3 350 psi (24.13 Bar) for LPG and NH <sub>3</sub> service (Limited by U.L. and NFPA 58)
	LGLH2 390 PSI (26.8 Bar) for LPG and NH <sub>3</sub> service (Limited by U.L. and NFPA 58)
Minimum Temperature	-25°F (-31°C)