



MATERIALS of CONSTRUCTION
Models: LGRLF1.25A, LGRL1.25,
LGLF1.25A, LGL1.25, LGLF1.5A, LGL1.5

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Section	501

PART NAME	STANDARD MATERIALS
Casing, Heads, Relief Valve Cover	Ductile Iron: ASTM A536
Liner, Discs, Bearing Covers	Cast Iron: ASTM A48
Bearings	Ball (Single Row), Grease Lubricated
Bearing Locknut and Lockwasher	Steel
Rotor & Shaft	Single End Keyed Shaft, 8-Vane Rotor
Rotor	Ductile Iron: ASTM A536
Shaft	High Strength Steel
Relief Valve	Cast Iron: ASTM A48
Relief Valve Cap	Steel
Relief Valve Spring	Plated Steel
Relief Valve Spring Setting	150 psi (10.34 bar) Differential Pressure Adjustable 81-150 psi (5.58 - 10.34 bar)
O-Rings: Other than Mechanical Seal	Buna-N
Gaskets: Bearing Cover	Fiber
Vanes	Duravane – Full Size with Stainless Steel Wear Plate
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 Inlet, 3/4" NPT Disharge

PIPE CONNECTIONS

PUMP SIZE	STANDARD
1.25"	1 ¼" NPT Tapped Ports
1.5"	1 ½" NPT Tapped Ports

OPERATING LIMITS

Maximum Differential Pressure	125 psi (8.62 Bar) (RV setting minus 25 psi / 1.7 Bar)
Maximum Working Pressure	350 psi (24.13 Bar) for LPG and NH ₃ Service (Limited by U.L. and NFPA 58)
Minimum Temperature	-25°F (-31°C)