



MATERIALS of CONSTRUCTION
 Models: LGF1E, LGB1E
 LGF1PE, LGB1PE

Page Number	501-091
Effective	Aug 2007
Replaces	Sept 2003
Section	501

PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Cylinder, Head	Ductile Iron: ASTM A536, 18%	
Bearing Cover	Cast Iron: ASTM A48	
Bearings	Ball (Single Row), Grease Lubricated	
Bearing Locknut and Lockwasher	Steel	
Rotor & Shaft	Single End Keyed Shaft, 6-Vane Rotor	
Rotor	Ductile Iron: ASTM A536, 6%	
Shaft	High Strength Steel, AISI 1050 or Equivalent	
Relief Valve	Nickel Plated Steel	
Relief Valve Cover	Steel	
Relief Valve Spring	Plated Steel	
Relief Valve Spring Setting		
LGF1E, LGB1E	105 psi (7.24 Bar) Differential Pressure Adjustable 50-125 psi (3.45 - 8.62 bar)	
LGF1PE, LGB1PE	120 psi (8.27 Bar) Differential Pressure Adjustable 50-125 psi (3.45 - 8.62 Bar)	
O-Rings: Other than Mechanical Seal	Buna-N	
Gasket: Bearing Cover	Fiber	
Vanes	Duravane - Full Size, No 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	
Coupling Guard	Plastic	

CONNECTIONS

Inlet and Outlet Ports	1" NPT Tapped
Bypass Return Port	3/4" NPT Tapped
Gage Ports	1/4" NPT

OPERATING LIMITS

Maximum Differential Pressure	125 psi (8.6 Bar)
Maximum Working Pressure	350 psi (24.1 Bar) for LPG and NH ₃ Service. (Limited by U.L.)