



Page Number	501-095
Effective	Jul 2018
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Section	501

PART NAME	STANDARD MATERIALS
Casing, Heads, Relief Valve Cover	Ductile Iron: ASTM A536
Liner, Discs	Cast Iron: ASTM A48
Bearing Covers	Steel
Bearings	Ball (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	Ductile Iron ASTM 536
Relief Valve Spring	Plated Steel
Relief Valve Spring Setting	150 psi (10.34 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	Case Hardened Steel
<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
Gage Ports	1/4" NPT

### COMPANION FLANGES AND FLANGED ELBOWS

Pipe Connection	STANDARD	OPTIONAL
Intake Port	3" – 300 lb. ANSI Mounting Flange	----
Auxiliary Intake Port	2" NPT Flange, Ductile Iron: ASTM A536	2" Weld Flange, Steel: ASTM A216 WCB 2" NPT Flanged Elbow, Ductile Iron: ASTM A536 2" Weld Flanged Elbow, Steel: SAEJ435C-0030 2" NPT Elbow Stainless Steel: ASTM A743 (CF-8M - 316 SS) 2" Weld Elbow Stainless Steel: ASTM A743 (CF-8M - 316 SS) 2" Weld Straight Stainless Steel: ASTM A743 (CF-8M - 316 SS) Blank Flange, Ductile Iron: ASTM A536
Discharge Port	2" NPT Flanged Elbow, Ductile Iron: ASTM A536	2" NPT Flanged Elbow, Ductile Iron: ASTM A536 2" Weld Flanged Elbow, Steel: SAEJ435C-0030 2" NPT Flange, Ductile Iron: ASTM A536 2" NPT Elbow Stainless Steel: ASTM A743 (CF-8M - 316 SS) 2" Weld Elbow Stainless Steel: ASTM A743 (CF-8M - 316 SS) 2" Weld Straight Stainless Steel: ASTM A743 (CF-8M - 316 SS)

### 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 <sub>3</sub> Service (Limited by U.L. and NFPA 58)
Minimum Temperature	-25°F (-31°C)