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| Page Number | 501-090 |
| Effective | Dec 2020 |
| Replaces | new |
| 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 |
| Rotor & Shaft | Double End Keyed Shaft, 6-Vane Rotor |
| Rotor | Ductile Iron: ASTM A536 |
| Shaft | High Strength Steel |
| Relief Valve | Ductile Iron: ASTM A536 |
| 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 |
| Vanes | Duravane – Full Size with Stainless Steel Wear Plate |
| Push Rods | 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 |

COMPANION FLANGES AND FLANGED ELBOWS

| Pipe Connection | STANDARD | OPTIONAL |
|-----------------------|--|---|
| Intake Port | 3" – 300 lb. ANSI Mounting Flange Ductile Iron: ASTM A536 | ---- |
| 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 | Double 2" NPT Flange, Ductile Iron: ASTM A536 With One: Blank Flange, Ductile Iron: ASTM A536 | 2" NPT Flange, Ductile Iron: ASTM A536 2" Weld Flange, Steel: SAEJ435C-0030 2" NPT Stainless Steel: ASTM A743 (CF-8M - 316 SS) 2" Weld Stainless Steel: ASTM A743 (CF-8M - 316 SS) |

OPERATING LIMITS

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| 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) |