



MATERIALS of CONSTRUCTION
 Model: SX3A

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| Page Number | 104-093 |
| Effective | Nov 2006 |
| Replaces | Oct 2006 |
| Section | 104 |

NOTE: Temperature and viscosity ratings given below apply to individual components **only**. For actual maximum temperatures and viscosities for the rated pump, see "**Operating Limits**".

| PART NAME | STANDARD MATERIALS | AVAILABLE OPTIONS |
|-----------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Cylinder, Heads | 316 Stainless Steel: ASTM A743, CF-8M | |
| Bearing Covers | Steel: Zinc Plated | |
| Bearings | Single Ball Bearing, Grease Lubricated to 300°F (149°C) | |
| Rotor & Shaft | | |
| Rotor | 316 Stainless Steel | |
| Shaft | 17-4 PH Stainless Steel | |
| Relief Valve (R/V) | 316 Stainless Steel: ASTM A743, CF-8M | |
| Relief Valve Cover | 316 Stainless Steel: ASTM A743, CF-8M | |
| Relief Valve Cap | 316 Stainless Steel | |
| Relief Valve Spring | Stainless Steel to 500°F (260°C) | |
| R/V Spring Ranges | 76-110 psi (5.2-7.6 bar) | Springs range from 51 – 125 psi (3.5 – 8.6 bar). See Parts Lists. |
| Bolts | 316 Stainless Steel (Metric) | |
| O-Rings / Seal Rings | PTFE to 500°F (260°C) | |
| Vanes | Duravane® - With 316 stainless steel wear plate to 240°F (115°C); 20,000 SSU (4,250 cP) Max. | |
| Push Rods | Nitronic "60"® Hard Chrome Plated | |
| Mechanical Seals | | |
| Stationary O-Ring | PTFE to 500°F (260°C) | |
| Stationary Seat | 316 Stainless Steel: ASTM A743, CF-8M with Silicon Carbide Insert | |
| Rotating O-Ring / Seal Ring | PTFE Seal Ring to 500°F (260°C) | |
| Rotating Seal Face | Carbon to 20,000 SSU (4,250 cP) Max. | |
| Seal Jacket, Spring | Inconel | |
| Seal Jacket | 304 Stainless Steel | |
| Gage Ports | 1/4" BSPP (British Standard Pipe Parallel) | |
| Pipe Flanges | 3" Butt Weld Stainless Steel | 3" ANSI (150 RF) 80mm DIN PN16 |

Centipoise (cP) = centistokes (cSt) at fluid specific gravity of 1.0.

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OPERATING LIMITS

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|--------------------------------|-----------------------|
| Maximum Temperature | 240°F (115°C) |
| Maximum Viscosity | 20,000 SSU (4,250 cP) |
| Maximum Differential Pressure* | 125 psi (8.6 Bar) |
| Maximum Working Pressure | 175 psi (12.1 Bar) |
| Maximum Torque | 2,275 lb-in (258 Nm) |

* Maximum Relief Valve Setting