



*MATERIALS of CONSTRUCTION*  
Models: SGLD2, SGLD3

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PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Casing, Heads, Relief Valve Cover, Relief Valve Cap	Ductile Iron: ASTM A536, 18%	
Discs, Liner	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, 18%	
Shaft      SGLD2	High Tensile Steel, AISI 41L40 or Equivalent	
SGLD3	High Tensile Steel, AISI 1050 or Equivalent	
Relief Valve	Cast Iron: ASTM A48	
Relief Valve Spring	Plated Steel	
Relief Valve Spring Range	Range 51–75 psi (3.52–5.17 bar) differential pressure <sup>1</sup>	76 – 110 psi (5.24 – 7.58 bar) <sup>1</sup> 111 – 150 psi (7.65 – 10.34 bar) <sup>1</sup>
O-Rings: Other than Mechanical Seal	HNBR (Special)	FKM, Neoprene, PTFE
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	HNBR (Special)	FKM, Neoprene, PTFE
Stationary Seat	Hardened Steel	Silicon Carbide
Rotating O-Ring	HNBR (Special)	FKM, Neoprene, PTFE, Kalrez®
Rotating Seal Face	Carbon (Custom)	
Seal Jacket	Plated Steel	
Seal Spring	Stainless Steel	
Gage Ports	1/4" NPT	

<sup>1</sup> Relief Valve Springs are set at the midpoint of the range by the factory unless otherwise specified.

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**PIPE COMPANION FLANGES**

PUMP SIZE	STANDARD	OPTIONAL
SGLD2	Two 2" NPT Flanges, Ductile Iron::ASTM A536, 18%	Two 2" Weld Flanges, Steel: ASTM A216 WCB
SGLD3	Two 3" NPT Flanges, Ductile Iron::ASTM A536, 18%	Two 3" Weld Flanges, Steel: ASTM A216 WCB

**OPERATING LIMITS**

Minimum Temperature	-30°F (-34°C)
Maximum Differential Pressure	150 psi (10.34 bar)
Maximum Working Pressure	525 psi (36.20 bar)