



MATERIALS of CONSTRUCTION
 Models: SGRL1.25A, SGL1.25A,
 SGL1.5A

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PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Casing, Heads, Relief Valve Cover	Ductile Iron: ASTM A536	
Liner, Discs, Bearing Covers	Cast Iron: ASTM A48	
Bearings	Ball (Single Row), Grease Lubricated	
Bearing Locknut and Lockwasher	Steel	
Rotor & Shaft	Single End Keyed Shaft, 8 Vane Rotor	
Rotor	Ductile Iron: ASTM A536	
Shaft	High Strength Steel, AISI 1050 or equivalent	
Relief Valve	Cast Iron: ASTM A48	Nickel Plated Cast Iron
Relief Valve Cap	Steel	
Relief Valve Spring	Plated Steel	
Relief Valve Spring Range	Range 51 – 80 psi (3.52 – 5.52 bar) differential pressure ¹	81 – 150 psi (5.58 – 10.34 bar) ¹
O-Rings: Other than Mechanical Seal	HNBR	FKM, PTFE, Neoprene
Gaskets: Bearing Cover	Fiber	
Vanes	Duravane - Full Size with Stainless Steel Wear Plate	Laminate - Full Size with Stainless Steel Wear Plate
Mechanical Seals		
Stationary O-Ring	HNBR	FKM, Neoprene
Stationary Seat	Hardened Steel	
Rotating O-Ring	HNBR	FKM, Neoprene
Rotating Seal Face	Carbon	
Seal Jacket	Plated Steel	
Seal Spring	Stainless Steel	
Gage Ports	1/4" NPT Inlet, 3/4" NPT Discharge	

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

PIPE CONECTIONS

PUMP SIZE	STANDARD
SGRL1.25A, SGL1.25A	1-1/4" NPT Tapped
SGL1.5A	1-1/2" NPT Tapped

OPERATING LIMITS

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