



MATERIALS OF CONSTRUCTION

Models: SMVP15C, SMVP30C,
SMVP50C, SMVP100C,
SMVP200C, SMVP300C

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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**" on backside.

PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS	
Heads, R/V Body & Cover, Dowel Pins	316 Stainless Steel, ASTM A743, CF-8M		
Cylinder	15, 30 50, 100, 200, 300	316 Stainless Steel, ASTM A743, CF-8M Duplex Stainless: ASTM 890-4A	
	Discs	15, 30 50, 100, 200, 300	Carbon Chem Disc
Bearing Covers	316 Stainless Steel, ASTM A743, CF-8M		
Sleeve Bearings	Metal Impregnated Graphite		
Rotor & Shaft			
Rotor	316 Stainless Steel, ASTM A743, CF-8M		
Shaft	316 Stainless Steel Coated with Hard Chrome-Cobalt Alloy		
Optional Relief Valve (R/V)	316 Stainless Steel, ASTM A743, CF-8M (PTFE Coated Valve)		
Relief Valve Spring	316 Stainless Steel		
R/V Spring Ranges	15, 30, 50, 100 200, 300	51-75 psi (352-517 kPa) 35-75 psi (241-517 kPa)	See Parts List for Optional Spring Ranges.
	O-Rings / Seal Rings	PTFE to 500°F (260°C)	
Capscrews (Non-wetted)	Stainless Steel		
Vanes	Duravane - Full Size with 316 Stainless Steel wear plate to 240°F (115°C)		
Push Rods	Nitronic "60" [®] Chrome Plated		
Magnet Housing	Ductile Iron: ASTM 536		
Magnet Assembly	Inner Magnet	Samarium Cobalt Magnets enclosed in 316 Stainless Steel	
	Outer Magnet	Samarium Cobalt Magnets enclosed in Steel	
Containment Can	Hastelloy		
Motor Adaptor	15, 30 50, 100, 200, 300	Cast Iron Ductile Iron	
	Impeller	15, 30 50, 100, 200, 300	NA 316 Stainless Steel
Gage Ports		1/4" NPT	

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

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Models: SMVP15C, SMVP30C, SMVP50C, SMVP100C, SMVP200C

PIPE COMPANION FLANGES

PUMP SIZE	STANDARD ¹	OPTIONAL ¹
SMVP15C, SMVP30C	1½" ANSI 150 lb. Compatible, Flat Faced	
SMVP50C, SMVP100C	2" ANSI 150 lb. Compatible, Flat Faced	
SMVP200C	3" ANSI 150 lb. Compatible, Raised Faced	
SMVP300C	4" ANSI 150 lb. Compatible, Raised Faced	DIN 100, Raised Face

¹ All flanges are 316 Stainless, ASTM A473, CF-8M

OPERATING LIMITS

	STANDARD MATERIALS	OPTIONAL MATERIALS
Maximum Temperature	-40°F (-40°C) to 200°F (93°C)	Consult Factory for higher temperature ratings.
Maximum Viscosity	15, 30	Some viscosities may have differential pressure limits; consult performance curves for limits. Consult Factory for higher viscosity ratings.
	50, 100	
	200, 300	
Maximum Pump Speed	15, 30, 50, 100	
	200, 300	
Maximum Differential Pressure	15, 30, 50, 100	Differential pressure may be limited for certain viscosities; consult performance curves for limits.
	200, 300	
Maximum Working Pressure	15, 30, 50, 100	
	200, 300	

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