



MATERIALS OF CONSTRUCTION
ProVane® Models: PVS6A – PVS100A

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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
Casing, Outboard/Inboard Heads, Seal Cover, Liner(s), RV Body	Stainless Steel: ASTM A743, CF-8M	
Drive Housing, Bearing Adjuster, C-Face Adapter & Rings	Ductile Iron: ASTM 536, 18%	
RV Cover PVS6A - PVS15A	316 Stainless Steel	
RV Cover PVS20A - PVS100A	Stainless Steel: ASTM A743, CF-8M	
Disc (Inner), RV Cap, RV Spring	316 Stainless Steel	
Disc (Outer)	Non-Metallic Composite	
Rotor & Shaft		
Rotor	316 Stainless Steel	
Shaft	316 Stainless Steel (Coated with Cobalt-Nickel Alloy in seal/bearing area)	
Bearing - ball	Single Ball Bearing; Sealed Grease Lubricated	
Bearing – sleeve	316 Stainless Steel backed PTFE	
Vanes	Duravane®	
O-rings	PTFE	Fluorocarbon (FKM))
Push Rods	Non-metallic composite	

Commercial Mechanical Seals

Part Name	Type 16 (sizes 6-8) Type 51 (sizes 10-100)	Type 9	ISC Cartridge (sizes 10-100 only)
Retainer, Springs, Disc, Snap Ring, Spacer, Setscrew	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
Stationary Seat	Silicon Carbide	Silicon Carbide	Silicon Carbide
Rotating Ring	FKM	PTFE	FKM
Rotating Face	Carbon	Carbon	Carbon
O-Ring, Stationary Seat	FKM	PTFE	FKM

Pipe Connections

PUMP SIZE	INLET AND OUTLET	GAGE PORTS
PVS6A, PVS8A	¾" NPT Tapped Ports	1/8" NPT
PVS10A, PVS15A	1" NPT Tapped Ports	1/4" NPT
PVS20A, PVS30A	1½" NPT Tapped Ports	1/4" NPT
PVS40A, PVS50A	1½", 150 lb ANSI R.F. Flange	1/4" NPT
PVS80A, PVS100A	2", 150 lb ANSI R.F. Flange	1/4" NPT

Operating Limits

	STANDARD MATERIALS	OPTIONAL MATERIALS
Maximum Temperature	240°F (115°C)	
Maximum Viscosity	5,000 SSU (1,100 cP)	
Maximum Differential Pressure	125 psi (8.6 Bar)	
Maximum Working Pressure	200 psi (13.8 Bar)	Type 9 Seal – 350 psi (24.1 Bar)

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