



**MATERIALS OF CONSTRUCTION**  
*ProVane® Models: PV6B - PV100B*

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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, Head, Drive Housing, Bearing Adjuster, Seal Cover, C-Face Adapter & Rings, RV Body	Ductile Iron: ASTM 536, 18%	
RV Cap	Steel	
RV Cover PV6B - PV15B PV20B - PV100B	Steel Ductile Iron: ASTM 536, 18%	
RV Spring PV6B – PV50B PB80B – PV100B	Plated Steel: 75-125PSI 316 Stainless Steel: ranges to 125 PSI	316 Stainless Steel: 35-90PSI ---
Disc (Inner), Liner(s)	Cast Iron: ASTM A48	
Disc (Outer)	Non-Metallic Composite	
Rotor & Shaft		
Rotor	Ductile Iron : ASTM A536, 6%	
Shaft	High Strength Steel	
Bearing - ball	Single Ball Bearing, Sealed Grease Lubricated	
Bearing – sleeve	316 Stainless Steel backed PTFE	
Vanes	Duravane®	
O-rings	Fluorocarbon (FKM)	PTFE
Push Rods	Non-metallic composite	

**Commercial Mechanical Seals**

Part Name	STANDARD		OPTIONAL	
	Type 16 (sizes 6-8) Type 51 (sizes 10-100)	Type 8 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 (Type 9), FKM (Type 8)	FKM	
Rotating Face	Carbon	Carbon	Carbon	
O-Ring, Stationary Seat	FKM	PTFE (Type 9), FKM (Type 8)	FKM	

**Pipe Connections**

PUMP SIZE	INLET and OUTLET	GAGE PORTS
PV6B, PV8B	¾" NPT Tapped Ports	1/8" NPT
PV10B, PV15B	1" NPT Tapped Ports	1/4" NPT
PV20B, PV30B, PV40B, PV50B	1½" NPT Tapped Ports	1/4" NPT
PV80B, PV100B	2" NPT Tapped Ports	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.