

Appendix A—Model Number and Identification Code for Strainer and Air Operated Valve (AOV)

Strainer Assembly¹

Pump Model	Strainer Assembly Part Number
PT/PTH20	4684-X
PT/PTH25	4689-X
PT/PTH30	4680-X

Air Operated Valve Assembly (AOV)

Pump Model	AOV Part Number
PT/PTH20	5470-1XA (Buna-N)
PT/PTH25	5462-1XA (Buna-N)
PT/PTH30	5566-XA (Buna-N)

Appendix B—Technical Specifications for the PT-Series

Operating Specifications

Standard connections:	2 in., 2-1/2 in., and 3 in. NPT
Optional connections:	BSPT, Slip-on weld
Maximum differential pressure:	125 psid (8.6 bar)
Temperature range:	-25° to 300°F (-32° to 149°C)
Maximum working pressure:	200 psi (13.8 bar)
Maximum speed:	780 RPM—all models 20 and 25 640 RPM—all models 30
Maximum flow:	Up to 271 GPM (1,026 L/min)
Maximum viscosity:	20,000 SSU (4,250 cP)
Fluids:	Refined petroleum products, industrial solvents, and other fluids

Material Specifications

Part	Standard Material	Available Options
Case	Cast iron ASTM A48	
Head	Cast iron ASTM A48	
Flanges	Cast iron ASTM A48	
Rotor	Ductile iron ASTM A536	
Bearing cap	Steel	Bearing cover / spacer with hydraulic motor adapter (cast aluminum) and coupling (steel)
Bearings	Ball (single row), grease lubricated to 300°F (149°C) Max.	
Vanes	Full size with 316 stainless steel wear plate to 240°F (115°C); 20,000 SSU (4,250 cP) max.	
Bypass valve	Cast iron ASTM A48 electroless nickel plated	
Bypass/AOV cap	Cast iron ASTM A48	
Bypass valve cover	Cast iron ASTM A48	
Bypass valve spring	Plated steel	
Bypass valve spring ranges	35–125 psi (2.4–8.6 bar)	
Seal seat	Cast iron	
Seal metal parts	Steel	
Shaft	Double end keyed shaft, high strength steel	
O-rings	Viton® ² to 300°F (149°C)	Buna-N to 240°F (115°C)
Gaskets	Composition to 500°F (260°C)	
Vane drivers	Case hardened steel	
Gage ports	1/4 in. NPT	

¹Strainer assembly ordered by part number when not assembled to the pump.

²Viton® is a registered trademark of the DuPont company.