



PVMY2000 4" x 4" HYDRANT PIT VALVES



- Meets all the requirements of the IP and API recommendations
- Lanyard, air operated or dual pilot valve operation available
- Base flange conforms to the dimensions of ANSI 150
- Low overshoot volume
- Compatible with all hydrant couplers conforming to IP and API recommendations
- Greatly exceeds API strength requirements
- Low pressure drop
- API adaptor and pilot valve serviceable without depressurizing the hydrant system
- Pressure equalising valve for ease of coupling
- Suitable for use with under hydrant isolation valves

Ordering Information

- PVMY2010
- Standard valve with 4" API adaptor and lanyard operation.
- PVMY2014
- Standard valve with 4" three point bayonet adaptor
- PVMY2018
- Standard valve with 2½" three point bayonet adaptor

Optional Extras

To include the following optional items please add the relevant letter to the part number.

- A - Air/lanyard dual pilot valve
- C - 6" x 4" reducer spool piece
- G4 - Stoneguard strainer (4")
- G6 - Stoneguard strainer (6")
- F - 20 mesh strainer
- L - Long (18") lanyard (short lanyard supplied as standard)
- R - Stainless steel API adaptor

EXAMPLE: PVMY2010AF
Standard 4" API valve with dual pilot valve and filter.



4" three point bayonet adaptor



2½" three point bayonet adaptor



Air/lanyard dual pilot valve



Long (18") lanyard



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A Flight Refuelling company



Operation

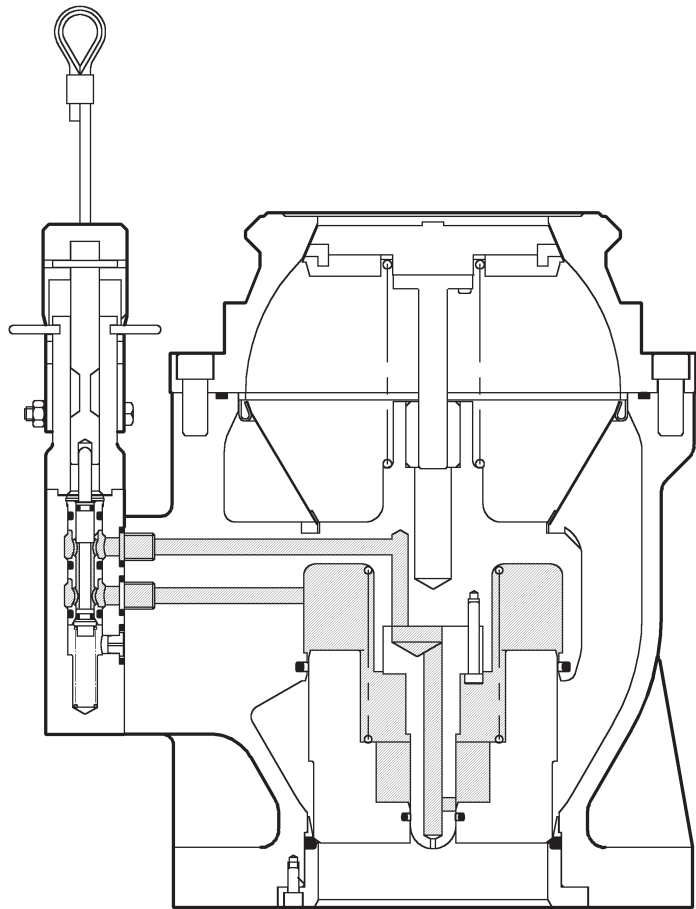


Figure 1 - Pit Valve closed

With the pilot valve closed, fuel pressure from the hydrant line is applied to the bottom face of the piston. At the same time fuel at equal pressure passes through the internal drilling of the guide rod to the top of the piston. Due to an imbalance in surface area and with spring assistance the piston is held closed.

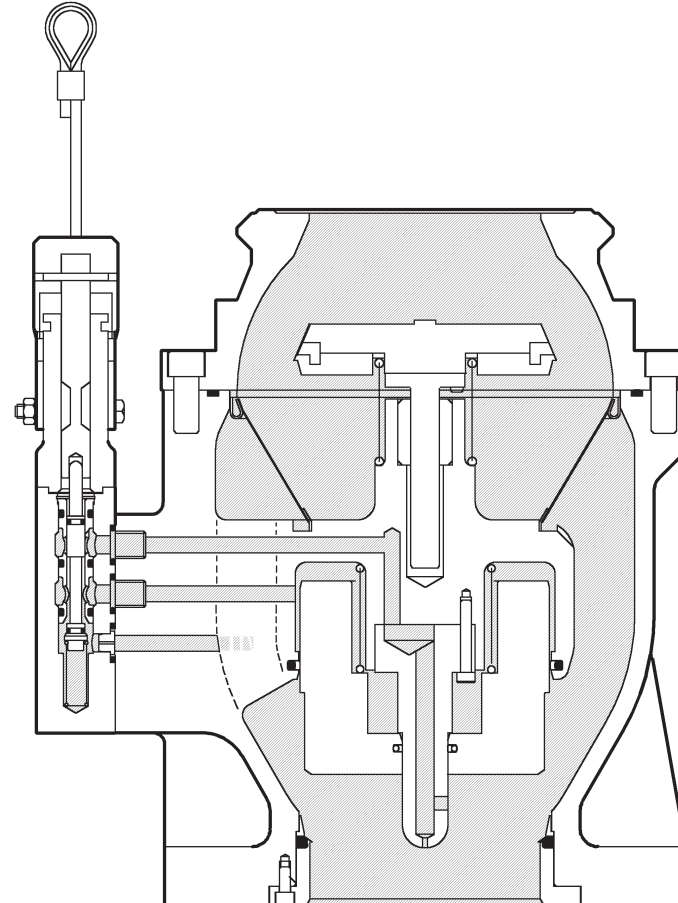


Figure 2 - Pit Valve open

When the pilot valve is opened fuel on top of the piston is released to the downstream side of the valve. Fuel pressure, on the bottom of the piston, now overcomes spring pressure forcing the piston off its seat and allowing fuel to flow with minimum pressure drop.

Specification

Maximum Safe Working Pressure
- 18.7 bar (275 psi)

Hydrostatic Test Pressure
- 28.0 bar (412 psi)

Air Pressure (pneumatically operated pilot valves)
- Minimum 2.4 bar (35 psi)
- Maximum 13.6 bar (200 psi)

Pressure Drop
1.12 bar (16.3 psi)
(IP Specified test rig @ 1000 igpm (4500 lpm))

Opening Time
0 - 90% of full flow 5 - 10 seconds

Closing Time
3 - 5 seconds from 1000 igpm (4500 lpm),
overshoot 140 litres

Temperature
Minimum operating temperature -25° C
Maximum operating temperature 70° C

Weight
32 kg

MATERIALS

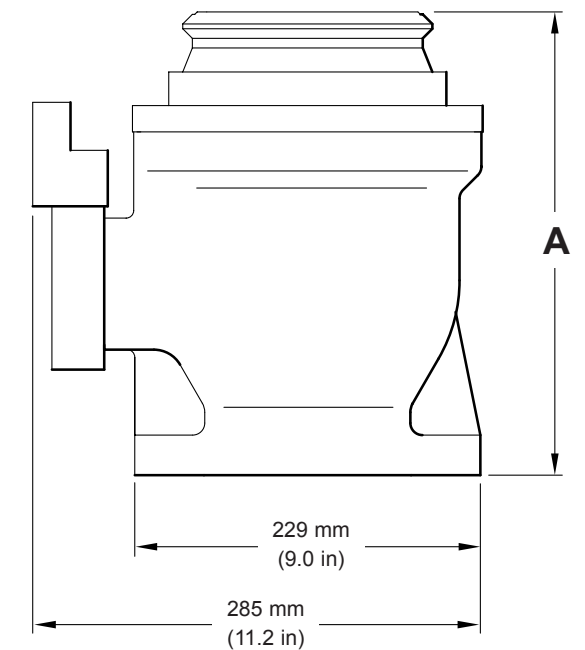
Body
Ductile cast iron, internally treated with Copon EA-2217. Externally treated with Acrylic paint finish.

API Adaptor
Ductile cast iron with fluoropolymer coating (optional stainless steel)

Pilot Valve
Stainless steel and aluminium alloy

Seals
PTFE, fluorocarbon and high nitrile

Overall Dimensions



Overall Height (**DIMENSION A**)

4 in. API	305mm (12.0 in.)
4 in. three point bayonet	313mm (12.3 in.)
2½ in. three point bayonet	333mm (13.1 in.)



GB5000 pit box with PV2000 hydrant valve and underhydrant isolating valve