

Fuelling products

Hydrant valves

PVMY1000M3 hydrant pit valves

PVMY1000M3 hydrant
pit valve



Key Features

- Compatible with all hydrant couplers conforming to EI and API recommendations
- Meets all the requirements of the EI and API 3rd Edition recommendations
- 4-inch stainless steel API adaptor
- Pressure equalising valve for ease of coupling

Additional features

- 6-inch base flange drilled in accordance with ANSI 300
- Automatic thermal relief prevents pressure build up
- Lanyard, air operated or dual pilot valve
- Adaptor and pilot valve may be serviced without depressurizing the hydrant

Meggitt Control Systems

Our product competencies & services:

Aerospace valves | Thermal management solutions | Environmental control systems | Electro-mechanical products
Ground fuelling products | Energy products | Aftermarket services

MEGGITT
smart engineering for
extreme environments

Fuelling products

Hydrant valves

PVMY1000M3 hydrant pit valves

Specification

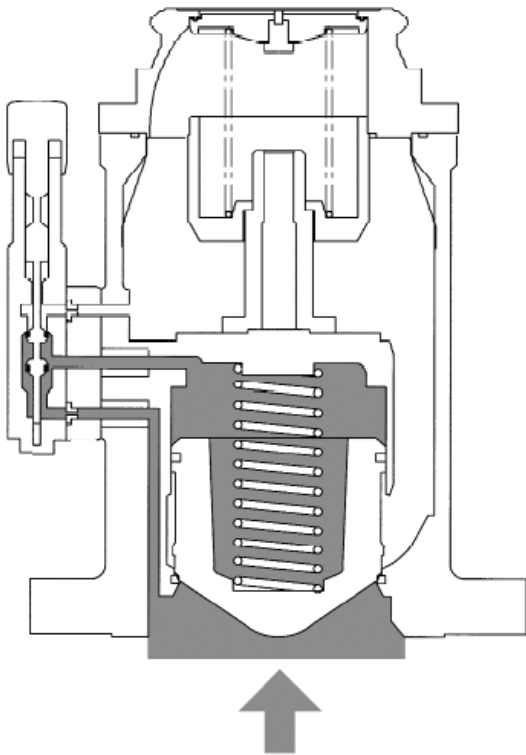
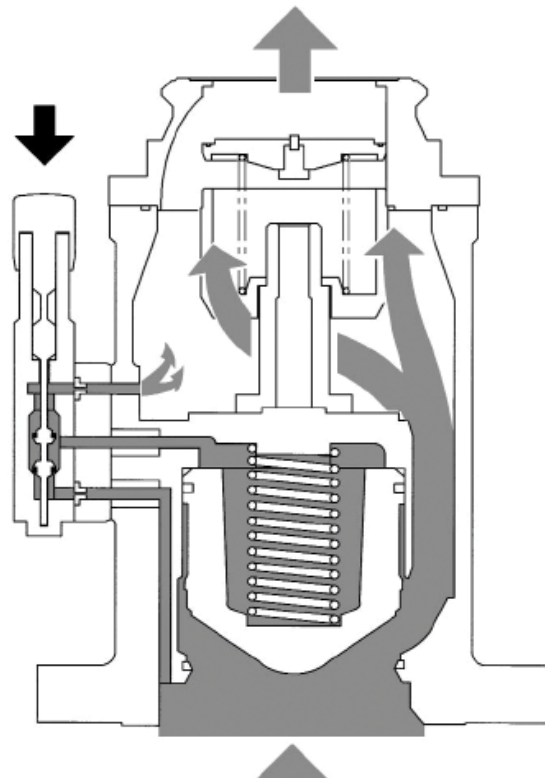


Figure 1 - Pit Valve closed

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 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

With the pilot valve 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.



Meggitt Control Systems

Our product competencies & services:
Aerospace valves | Thermal management solutions | Environmental control systems | Electro-mechanical products
Ground fuelling products | Energy products | Aftermarket services

MEGGITT
smart engineering for
extreme environments

Fuelling products

Hydrant valves

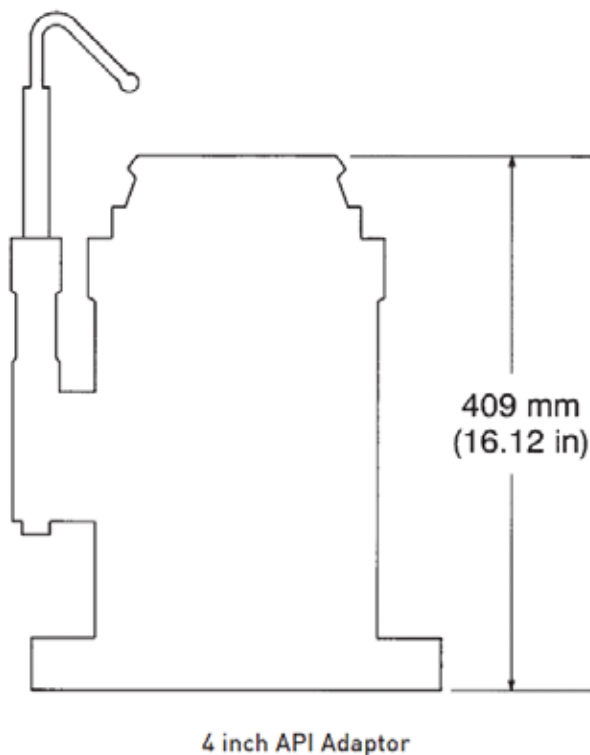
PVMY1000M3 hydrant pit valves

Specification

Materials

Body
Anodised aluminium alloy, Stainless steel
and PTFE with Fluorocarbon and High Nitrile
seals.

Four inch stainless Steel API adaptor.



Maximum Safe Working Pressure
18.9 bar (275 psi)

Hydrostatic Test Pressure
28.0 bar (421 psi)

Air Pressure (pneumatically operated pilot valves)
- Maximum 2 bar (30 psi)
- Maximum 13.6 bar (200 psi)

Pressure drop
(IP Specified test rig @ 1000 IGM (1200 US gpm)
Without 20 mesh Strainer-1.12 bar (16.3psi)
With 20 mesh Strainer-1.25 bar (18.2 psi)

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

Closing Time
8.1 bar (120 psi) inlet pressure and 1000 IGM (1200
US gpm) 2-5 seconds, over shoot 40lmp gallons
maximum

Temperature
Minimum operating temperature -25°C
Maximum operating temperature 135°C

Meggitt Control Systems

Our product competencies & services:
Aerospace valves | Thermal management solutions | Environmental control systems | Electro-mechanical products
Ground fuelling products | Energy products | Aftermarket services

MEGGITT
smart engineering for
extreme environments

Fuelling products

Hydrant valves

PVMY1000M3 hydrant pit valve

Key Dimensions

Ordering Information

PVMY1000M3

- Standard valve with 4" API stainless steel adaptor and short lanyard

Optional Extras

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

- A - Air/lanyard dual pilot valve
- F - 20 mesh strainer
- L - Long (18") lanyard (short lanyard supplied as standard)

EXAMPLE: PVMY1000M3A- Standard 4" API valve with dual pilot valve.



Pneumatically operated pilot valve



Long (18") lanyard

Contact

HP Aviation Group

Address: 1/9 Newry Drive,
New Gisborne, 3438, Australia

Telephone: +61 35428 4846
+61 400 234 997

Email:
sales@hpaviationhoses.com.au

Website:
www.hpaviationhoses.com.au

Meggitt Control Systems

Our product competencies & services:

Aerospace valves | Thermal management solutions | Environmental control systems | Electro-mechanical products
Ground fuelling products | Energy products | Aftermarket services

MEGGITT
smart engineering for
extreme environments