

Fuelling products

Hydrant pit valves

PVMY2010M3 series hydrant pit valves

PVMY2010M3 hydrant
pit valve



Key Features

- Meets all requirements of the EI and API 3rd Edition recommendations
- Lanyard, air operated or dual pivot valve operation available
- Base flange conforms to the dimensions of ANSI 150
- Low overshoot volume
- Compatible with all hydrant couplers conforming to EI and API recommendations

Additional features

- 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

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

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Operation

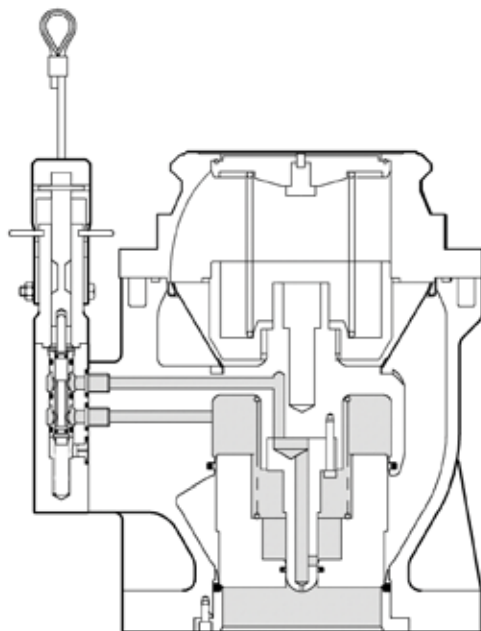


Figure 1 - Pit Valve closed

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 to the top of the piston. Due to an imbalance in surface area and with spring assistance the piston is held closed.

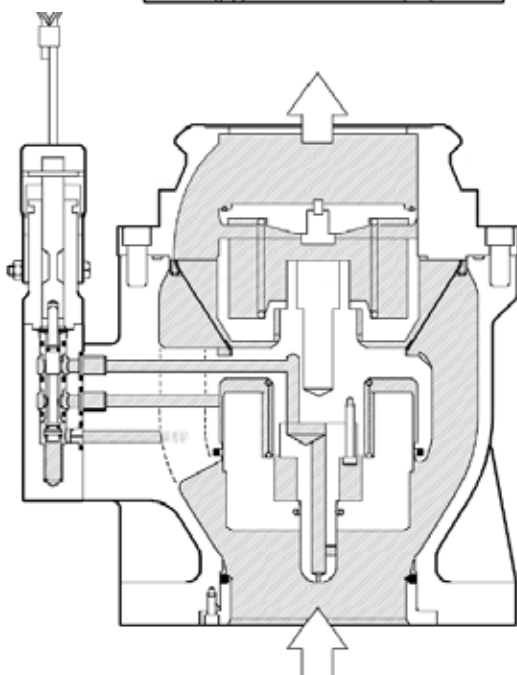


Figure 2 - Pit Valve open

With the pilot valve 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.

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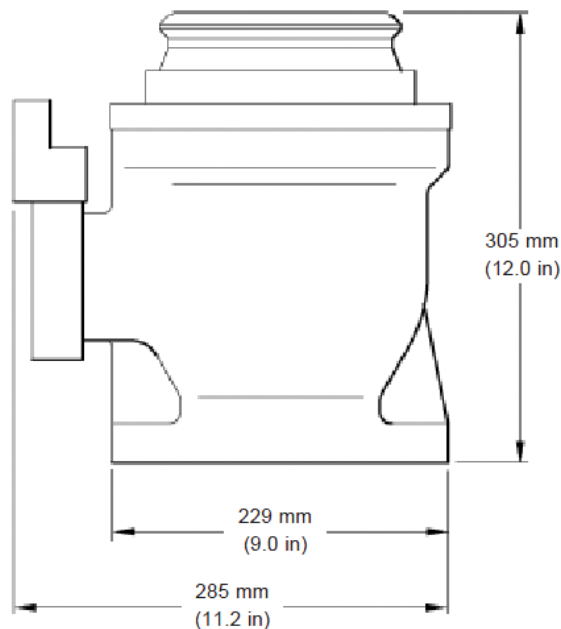
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Specification



GBMY5050M2 pit box with PV2010M3 hydrant valve and underhydrant isolating valve

Maximum Safe Working Pressure
-18.9 bar (275psi)

Hydrtic Test Pressure
-28.0 bar (412 psi)

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

Pressure Drop
1.112 bar (16.3 psi)
(EI Specified test rig @ 1000 igpm
(4500lpm))

Opening Time
3-5 seconds from 1000 igpm (4500
Lpm), overshoot 140 liters

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

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

Weight
32 kg

Materials

Body
Ductile cast iron, externally treated with
Cupon EA-2217. Externally treated with
Acrylic paint finish.

API Adaptor
Stainless steel as standard

Pilot Valve
Stainless steel and aluminum alloy.

Seals
PTFE, fluorocarbon and high nitrile

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Air/lanyard dual pilot valve

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)

Example: PVMY2010M3AF
Standard 4" API valve with dual pilot valve and filter.



Long (18") lanyard

Ordering information

PVMY2010M3
- Standard valve with 4" API Stainless steel adaptor and lanyard operations.

Contact

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