



# MAGNETIC VALVE

## PRESSURE AND VACUUM

### ACCESSORY FOR VAPOR RECOVERY SYSTEMS

NBR ISO 9001:2000  
 API 1615  
 NFPA 30/30A  
 CARB CP 201  
 UL 842

TECHNICAL SHEET  
 MD - C  
 DN.2" / DN.3"

#### PRESENTATION

**Get Fuel**® Pressure and Vacuum Valve was developed using the original **MAGNETIC** technology. It is an innovative equipment that uses 2 (two) control magnetic discs, which retain vapors and gases in the fuel tanks of service stations, chemical industries, or any other fuel systems or tanks, in normal operating conditions at low pressure.

In order to achieve such goals, the most rigorous compliance tests were performed by reputable laboratories, complying with International Standards specifications that establish the minimum criteria for application and performance.

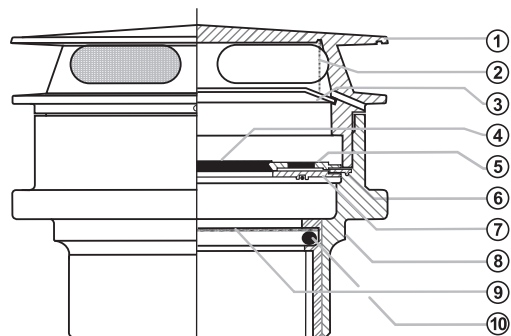
- NBR ISO 9001:2000 - Quality Management System
- API 1615 - Installation of Underground Petroleum Storage Tank Systems
- NFPA 30/30A - Flammable and Combustible Liquids Code
- CARB CP 201 - California Air Resources Board
- UL 842 - Standard for Safety Valves for Flammable Fluids

Its performance favors a perfect adjustment for opening and closure by the time of atmospheric air admission or gases output, having clear environmental benefits to the society and economical benefits to the user.

Using **Get Fuel**® Magnetic Valve, depending on tank installation conditions and service station geographic location, vapor and gas recovery rates may reach values up to 2.5 liters of fuel for every 1000 liters commercialized.

#### LEGEND:

- 1 - Cap
- 2 - Flame arresting screen
- 3 - Upper ring
- 4 - Safety seal
- 5 - Upper magnetic disc
- 6 - Disc separating ring
- 7 - Lower magnetic ring
- 8 - Body
- 9 - Internal protective screen
- 10 - O'ring



## APPLICATION

**Get Fuel**<sup>®</sup> Magnetic Valve is installed at the end of vent tubes (DN. 2" or 3") of underground or suspended tanks (metallic or PET), which contain all kinds of fluids that have volatile fractions, which evaporate from supplying units installed at reselling or filling stations. As a consequence, a perfect adjustment in the required pressures is established, having the functions of vacuum preventing and positive pressure relief, protected by flame arresting screen.

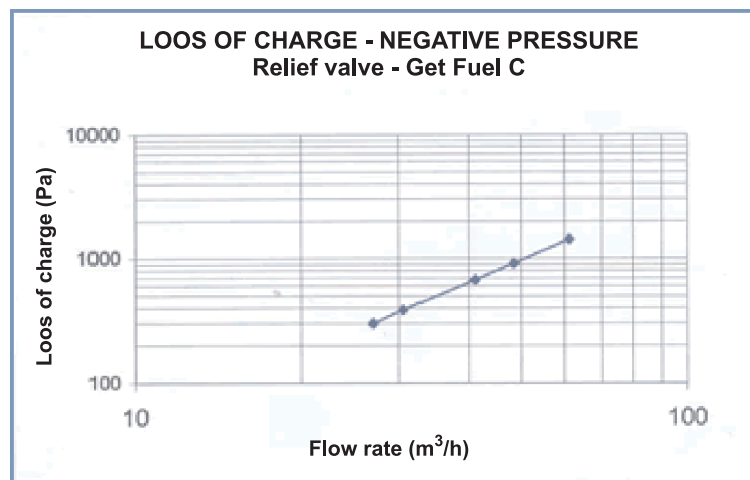
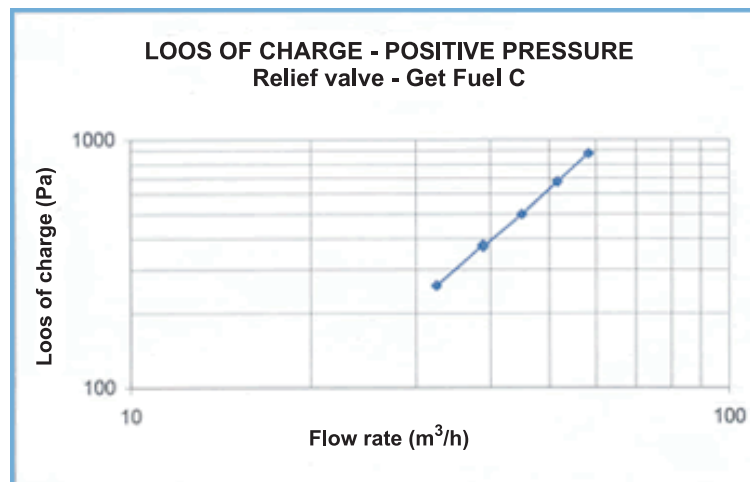
## OPERATION

Just 2 (two) magnetic discs execute the modulation of positive and negative pressures - ejecting the volatiles and admitting atmospheric air - thus eliminating any other moving parts. When the ambient in the tank presents positive pressure, the upper magnetic disc will modulate its position. Otherwise, the lower disc will do the modulation, both having DOUBLE modulating stages, an unique characteristic in compact equipment. **Get Fuel**<sup>®</sup> Magnetic Valve has a safety seal, in case a major scale relief is needed in order to protect the system, aiming at serving emergency surges.

## PERFORMANCE GRAPHS

Opening pressures:

Positive = 750 Pa	Vacuum = 410 Pa
0,12 PSI	0,06 PSI



**Note:** Graphs according to IPT Technical Report nr. 59.634

## SPECIFICATION AND MATERIALS

**Get Fuel**<sup>®</sup> Magnetic Valve is manufactured with 2" and 3" BSP nominal diameter in nylon resin (Zytel FR50 NC010) with flame retardant, compatible with its application, complying with International Standards specifications. It has no riveted, welded or screwed parts, comprising only perfect fitting parts.

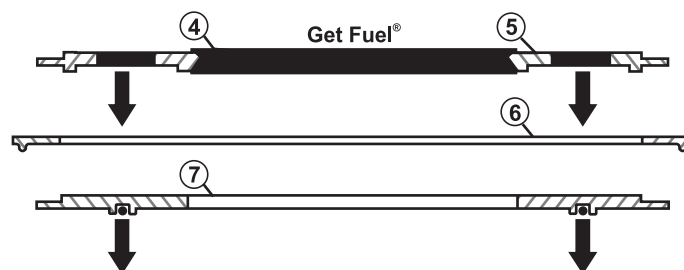
It has no external mechanisms like: springs, pins, etc. All of its internal mechanisms are movable. The body and protective cap are threaded, having upward directed openings, protected by a stainless steel flame arresting screen, allowing easy access to the safety seal, sealing rings and magnetic discs.

## INSTALLATION

- In order to install **Get Fuel**<sup>®</sup> Magnetic Valve, just screw it to the tank vent tubing (vent).
- In case the tubing end has a curve or cap, those must be removed, taking precautions to cause no harm to the threads.
- Clean tubing thread, taking precautions to prevent particulate material from entering the tube.
- Protect the thread with teflon tape.

## MAINTENANCE

- In case of preventive maintenance of **Get Fuel**<sup>®</sup> Magnetic Valve, it is recommended to check valve inner parts every 180 (one hundred and eighty) days.
- When performing preventive maintenance after warranty period, execute a general cleaning, observing the assembly of the internal set of parts **4, 5, 6 and 7**, and assembling them in the same sequence.



## WARRANTY

Get Fuel Equipamentos Ltda assures to **Get Fuel**<sup>®</sup> Magnetic Valve customer the warranty of the valve regarding material and/or manufacturing faults, provided that it is verified by an authorized Get Fuel technician, for the legal period of 90 days, and for an additional 275 days period, by Get Fuel liberality, starting from the date of the purchase by the first buyer customer, with the purchase confirmed by the invoice, and/or Warranty Certificate, properly filled by the dealer.

