

Type DHM

In-line Valve

In-line automatic weightloaded pressure/vacuum valve operating through the vapor header. The valve has a magnet assisted pressure disc to reduce pressure drop during pressure relief. This execution provides high capacity with relatively small nominal bore and allows for the use of smaller nominal size of vent piping.



Type DHM valve is designed to relieve pressure and vacuum during loading, discharge, voyage (thermal variation and sloshing) and ballasting. The valve is always in automatic mode. Downstream outlet to atmosphere to be through an approved device to prevent the passage of flame according to IMO MSC/Circ. 677.

Type DHM is ideal for high set pressure applications because it features compact size and yet high capacity due to the magnet operated pressure valve. As with all magnet valves, the blowdown is high and tank pressure down to the re-seating pressure is relieved. A considerable saving on pipe diameter can be achieved with this solution.

*In-line pressure/vacuum valve
type DHM*

Features of type DH:

- Automatic operation
- Check lifts are standard
- Available in materials compatible with any cargo
- Simple rigid design and construction
- High capacity with small nominal bore
- Magnets available in various materials and PTFE encapsulated for chemical carriers

Options: see specifications

In-line automatic weightloaded pressure/vacuum relief valve with magnet pilot

Specifications

Type: DHM 2231-1
Dimensions: See drawing No. 2231-1
Settings: To fit application
Accuracy: ± 5%*
Ice layer: Not applicable
Capacities: Up to 30,000 Nm³/hr
Pressure drop in excess of set-pressure: No
Valve type: Immediate full lift
Materials: Cast iron, nodular iron, bronze, stainless steel

Nominal sizes

ND50 - 400

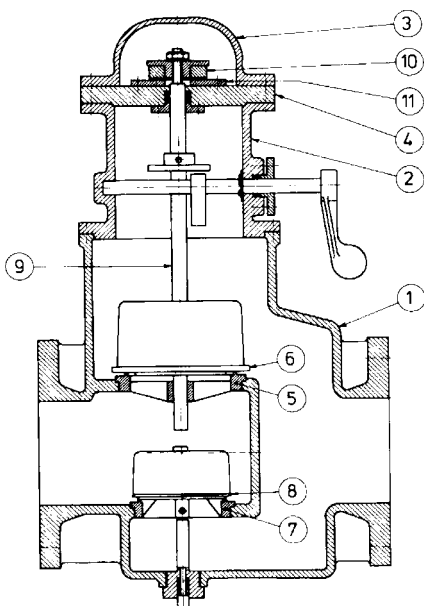
Options

Proximity switches, heating jacket, check-lifts, soft PTFE seats, magnet power calibration tools, drainage to collection point.

Certification

Approved for all installations in combination with certified device to prevent the passage of flame according to IMO MSC/Circ. 677 All Pres-Vac products are type approved by the leading classification societies and by relevant flag state administrations. Upon request certified copies of certificates will be furnished.

*Magnet lifetime is normally above 20 years.



Type DHM (shown without drain)

Item	Description
1	Valve body
2	Housing for lift
3	Top cover
4	Cover
5	Pressure seat
6	Pressure disc
7	Vacuum seat
8	Vacuum disc
9	Stem
10	Magnet
11	Armature

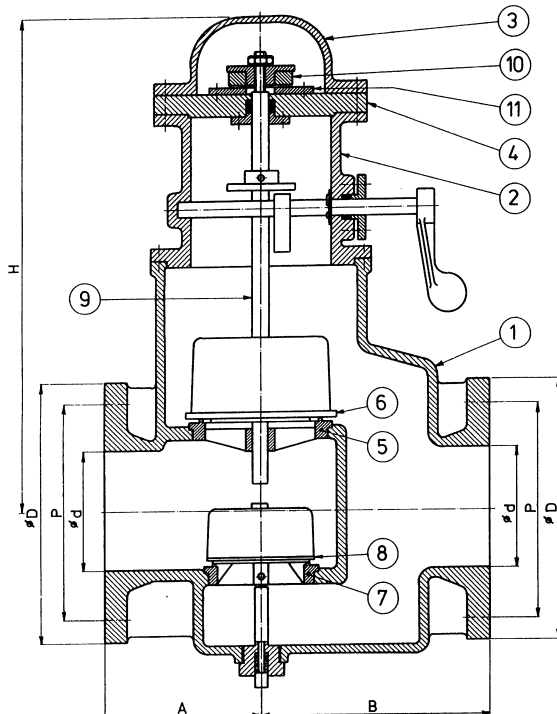
Available with any connection and in any material requested. Please ask for detail drawing and performance data sheets for any specific model and type.

drwg. no.:	2231-1
date:	820211
model:	-
drw. rev.:	-
scale:	-
material:	-

Type DHM

Pressure/vacuum valve

6	150	570	160	290	285	240	8x°22
4	100	430	135	195	220	180	8x°18
3	80	405	115	175	200	160	4x°18
2 ¹ / ₂	70	405	105	150	185	145	4x°18
2	50	365	100	140	165	125	4x°18
°d inch	°d mm	H mm	A mm	B mm	°D mm	P-mm	Holes drilling



Parts list

Item	Description	Spec. 1	Spec. 2
1	Valve body	Stainless steel	Cast iron
2	Housing for lift	Stainless steel	Cast iron
3	Top cover	Stainless steel	Cast iron
4	Cover	Stainless steel	Stainless steel
5	Pressure seat	Stainless steel	Stainless steel
6	Pressure disc	Stainless steel	Stainless steel
7	Vacuum seat	Stainless steel	Stainless steel
8	Vacuum disc	Stainless steel	Stainless steel
9	Stem	Stainless steel	Stainless steel
10	Magnet	PTFE encapsulated	PTFE encapsulated
11	Armature	Stainless steel	Stainless steel

This drawing is for guidance only. Other sizes, materials, flange standards, settings, and versions are available. Request a specific quotation or approval drawing before implementing data.