

Type DH

In-line Valve

In-line automatic weightloaded pressure/vacuum valve operating through the vapor header. The valve is available with magnet assisted pressure disc (type DHM) to reduce pressure drop, allowing for smaller size of equipment and vent pipe diameter.



Type DH valve is designed to relieve pressure and vacuum during loading, discharge, voyage (thermal variation and sloshing) and ballasting. Cargo operation is possible with the valve in automatic or manual position provided that the IG pressure is monitored. Downstream outlet to atmosphere to be through an approved device to prevent the passage of flame according to IMO MSC/Circ.677. When used in common venting systems, attention should be paid to the operational risks involved because breather valves are generally insufficient for handling ballasting or cargo transfer. For common venting systems, an optional locking system is advisable to ensure that gas from the other tanks does not enter an isolated tank being inspected.

*In-line pressure/vacuum valve
type DH*

Features of type DH:

- Automatic operation**
- Check lift able to force pressure unit in open position**
- Available in materials compatible with any cargo**
- Simple rigid design and construction**
- Easy Maintenance**

Options: See specification

Automatic weightloaded pressure/vacuum relief valve

Specifications

Type: DH 2231
Dimensions: See drawing No. 2231
Settings: To fit application.
Accuracy: ± 2%
Ice layer: Not Applicable
Capacities: Up to 15,000 Nm³/hr.

Pressure drop in excess of set-pressure:

set-pressure: Yes.
Valve type: Modulating.
Materials: Cast iron, nodular iron, bronze, stainless steel.

Nominal sizes

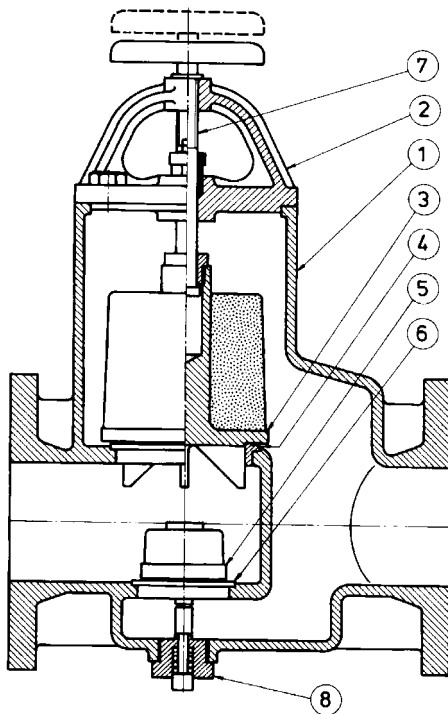
ND50 - 400

Options

Proximity switches, heating jacket, check-lifts, soft PTFE seats, drainage, spring insert for high set pressure, magnet for low pressure drop, locking arrangement for safe entry into an isolated tank, drain valve.

Certification

Approved for all installations in combination with certified device to prevent the passage of flame. 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.



Item	Description
1	Valve body
2	Top cover
3	Pressure disc
4	Pressure seat
5	Vacuum disc
6	Vacuum seat
7	Spindle
8	Check lift

Type DH (shown without drain)

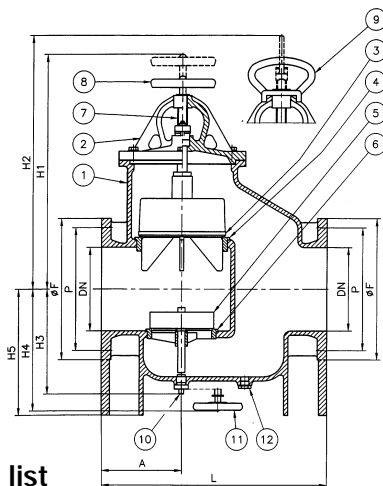
Available with any connection and in any material requested. Please ask for detail drawing and performance data sheets for any specific model and type.

drwg. no.: 2231	
date: 980728	drwg.: AP
model: -	scale: -
drw. rev.: 4	material: -

Type DH

Automatic weightloaded pressure/vacuum valve

16	400	330	915	905				530	565	515	16x°25
12	300	295	800	800				420	445	400	12x°22
10	250	250	700	670				380	395	350	12x°22
8	200	195	550	565			295		340	295	8x°22
6	150	160	450	535				190	285	240	8x°18
5	125	145	385	485				180	250	210	8x°18
4	100	135	330		455	150			220	180	8x°18
3	80	115	290		365	115			200	160	4x°18
2½	65	105	255		365	110			185	145	4x°18
2	50	100	240		325	95			165	125	4x°18
DN	DN	A	L	H1	H2	H3	H4	H5	°F	P-mm	Holes
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	drilling	



Opening standard:

- **Pressure:** 1400 mm W.G.
- **Vacuum:** 350 mm W.G.

Approved by:
 Lloyds Register of Shipping
 Det Norske Veritas
 Bureau Veritas
 American bureau of Shipping
 USSR Register of Shipping
 USCG Cert. no. 162.017/128/1
 Germanischer Lloyd

Parts list

Item	Description	Spec. 1	Spec. 2
1	Valve body	Cast iron	Cast iron
2	Top cover	Cast iron	Cast iron
3	Pressure disc	Bronze	Stainless steel
4	Pressure seat	Bronze	Stainless steel
5	Vacuum disc	Bronze	Stainless steel
6	Vacuum seat	Bronze	Stainless steel
7	Spindle	Brass	Stainless steel
8	Pressure check lift wheel	Stainless steel	Stainless steel
9	Pressure check lift handle	Stainless steel	Stainless steel
10	Vacuum check lift button	Stainless steel	Stainless steel
11	Vacuum check lift wheel	Stainless steel	Stainless steel
12	Drain plug, optional	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.

Available in other materials upon request.