

Type HS-L - 2383

(with optional gas-freeing – for high capacity applications)

High Velocity Vent



High velocity pressure/vacuum vent
HS-L - 2383 (shown with optional gas-freeing device)

Non-hammering high velocity pressure/vacuum relief vent type HS-L is a low cost alternative for a high yielding unit for VLCCs, storage vessels and other installations and for duplicate venting arrangements.

Type HS-L provides protection from fire and explosion and automatically controls the tank pressure and vacuum during loading, discharge, voyage and ballasting without manual operation and provides safe operation regardless of flow volume. It operates under freezing conditions without heating arrangements according to the restrictions listed in the accompanying certification. Discharge velocity is constantly above 30 m/sec due to the controlled opening and closing phase. The valve is manufactured and tested in accordance with IMO MSC/Circ. 677 and approved by the Danish Maritime Authority, which approval is endorsed by the leading classification societies. The unit is available with an optional integral gas-freeing cover mounted on the vacuum unit, in one size only for each vacuum unit model. This type of installation, however, should be considered with due consideration to the IG system recommendations, as laid down in the appropriate MSC circular, with regard to achieving efficient operations with proper location of in- and outlet for gases.

Features of type HS-L 2383:

- Complies with IMO regulations as per 1.1.95
- Few moving parts
- Self-closing check-lifts
- Low maintenance costs
- Available in all standard materials
- Available with fixed size of gas-freeing cover
- Easy changing of setting on pressure side
- Self-draining to tank

Options: See specifications

High velocity pressure/ vacuum relief vent

Specifications

Type: HS-L - 2383
Dimensions: See drawing No.2383
Settings: See certification
Accuracy: ± 2%
Capacities: Up to 13,000 Nm³/h.
Installation: See certification for applicable restrictions
Efflux velocity: Minimum 30 m/sec.
Checklifts: Self-closing (full travel)
Pressure rise: See certification
Valve type: Modulating
Materials: Cast iron, nodular iron, bronze, stainless steel
Ice-layer: 5 mm
Net clearance: 40-60 mm

Nominal sizes

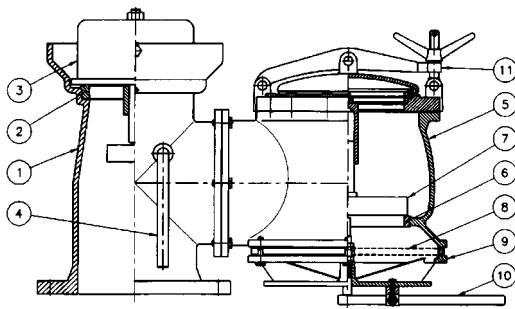
ND100 - 400

Options

Proximity switches, dessicator, gas-freeing cover

Certification

Certified by the Danish Government's Maritime Administration according to IMO MSC/Circ. 677. Installation to be in accordance with IMO MSC/Circ. 731 and maximum allowable vent pipe configurations approved by the Danish Maritime Administration.



Item	Description
1	Pressure Housing
2	Pressure Seat
3	Pressure disc
4	Check-lift
5	Vacuum house
6	Vacuum seat
7	Vacuum disc
8	Flame screen
9	Net cover
10	Check-lift
11	Gas freeing cover (optional)

Type: HS-L - 2383

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

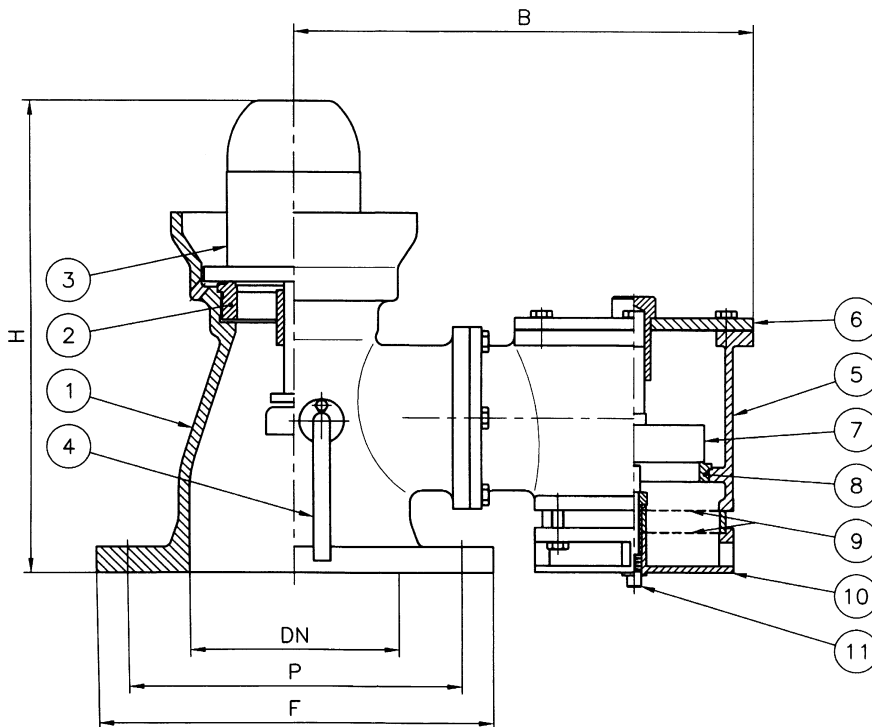
drwg. no.: 2383	
date: 970219	drwg.: HHR
model: -	scale: -
drw. rev.: 0	material: -

Type HSL

Weightloaded high velocity valve

Other standards available

250	10	540	680	395	350	12xø22
200	8	520	635	340	295	8xø22
150	6	450	485	285	240	8xø22
°D mm	°D inch	H mm	B mm	°F mm	P-mm Drilling	Holes Drilling



Parts list

Item	Description	Spec. 1	Spec. 2	Spec. 3
1	Pressure house	Cast iron	Cast iron	Stainless steel
2	Pressure seat	Bronze	Stainless steel	Stainless steel
3	Pressure disc	Bronze	Stainless steel	Stainless steel
4	Check-lift	Stainless steel	Stainless steel	Stainless steel
5	Vacuum house	Cast iron	Cast iron	Stainless steel
6	Vacuum cover	Cast iron	Cast iron	Stainless steel
7	Vacuum disc	Bronze	Stainless steel	Stainless steel
8	Vacuum seat	Bronze	Stainless steel	Stainless steel
9	Flame screen	Stainless steel	Stainless steel	Stainless steel
10	Net cover	Steel	Steel	Stainless steel
11	Check-lift	Stainless steel	Stainless steel	Stainless steel

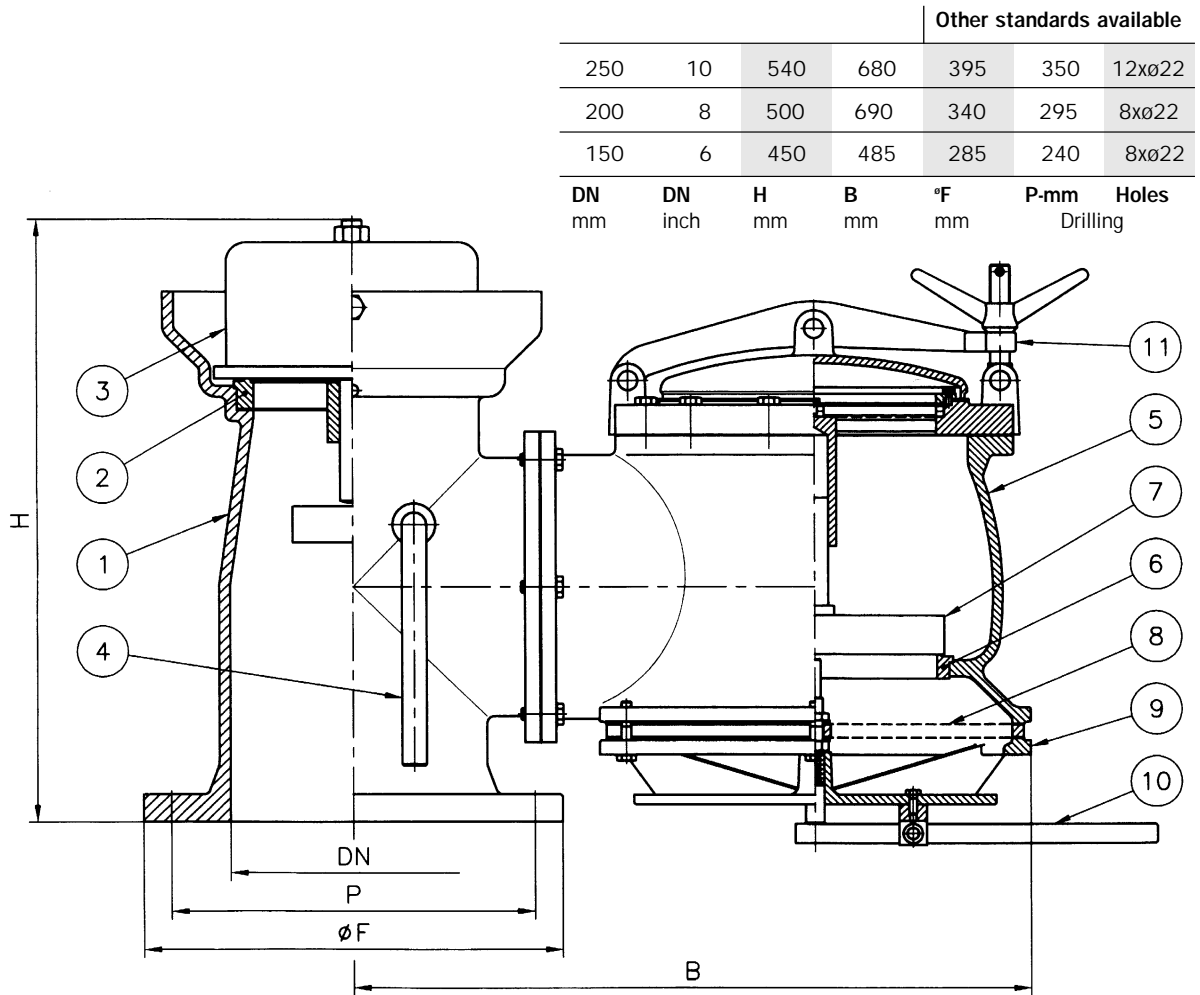
This drawing is for guidance only. Other sizes, materials, flange standards, settings, and versions are available. Request a specific quotation or approval drawing before implementing data.

drwg. no.: 2383-1	
date: 980604	drwg.: AP
model: -	scale: -
drw. rev.: 0	material: -

Type HSL

Weightloaded high velocity valve with GFC cover

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.



Parts list

Item	Description	Spec. 1	Spec. 2	Spec. 3
1	Pressure housing	Cast iron	Cast iron	Stainless steel
2	Pressure seat	Bronze	Stainless steel	Stainless steel
3	Pressure disc	Bronze	Stainless steel	Stainless steel
4	Check-lift	Stainless steel	Stainless steel	Stainless steel
5	Vacuum housing	Cast iron	Cast iron	Stainless steel
6	Vacuum seat	Bronze	Stainless steel	Stainless steel
7	Vacuum disc	Bronze	Stainless steel	Stainless steel
8	Flame screen	Stainless steel	Stainless steel	Stainless steel
9	Net cover	Cast iron	Cast iron	Stainless steel
10	Check-lift	Stainless steel	Stainless steel	Stainless steel
11	Gas freeing cover	Cast iron	Cast iron	Stainless steel