

Type HSV 2355

High Velocity Vent

High velocity pressure/vacuum relief vent type HSV is ideal for high capacity systems and IG installations



*High velocity pressure/vacuum vent
type HSV 2355*

Type HSV provides active protection from fire and explosion and automatically controls the tank pressure/vacuum during loading, discharge, voyage, and ballasting without manual operation and provides safe operation regardless of flow volume. It operates in freezing conditions without heating arrangements. Discharge velocity is constantly above 125 m/sec. The vent is manufactured and tested in accordance with IMO MSC/Circ. 373/Rev.1 and approved by leading classification societies having accepted tests conducted by the Danish Maritime Administration. Each supply is designed considering physical properties of the cargo such as flammability, gas evolution, density, viscosity and fouling. Certain limitations should be observed in regard of vent pipe length. When installed as a p/v breaker, its capacity may be regarded as part of the venting system due to compliance with Reg. 59. This is not the case with liquid filled p/v breakers.

Features of type HSV 2355:

- Complies with IMO regulations for inerted vessels (consult for restrictions)
- Few moving parts
- Automatic self-closing checklifts
- Simple, rigid design and construction
- Available in materials compatible with any cargo
- Protects crew from exposure by constant vertical efflux at all times
- System design engineering available for IMO MSC/Circ. 731, Master's Loading Chart
- Easy maintenance
- Self-draining to tank

Options: See specification

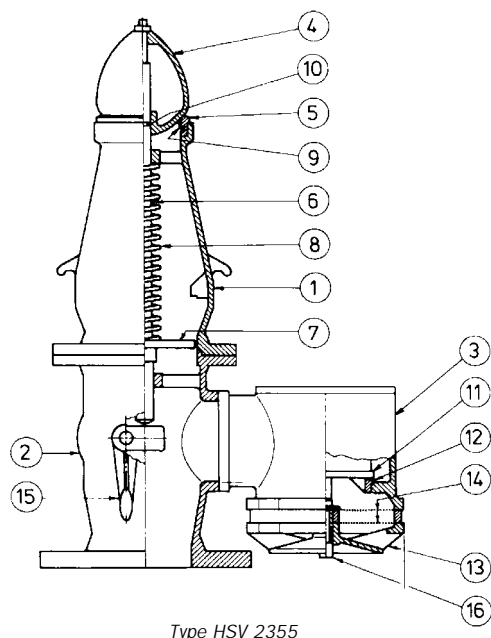
High velocity pressure/ vacuum relief vent

Specifications	
Type:	HSV 2355
Dimensions:	See drawing No. 2355
Settings:	See certification
Accuracy:	+ 2%*
Capacities:	Up to 18,000 Nm ³ /hr. See certified curves.
Maximum pipe length/pressure drop**:	See certification Mainly intended for short pipe installation
Efflux velocity:	Constantly 125 m/sec
Self-closing checklifts:	Yes
Pressure drop in excess of set-point:	None.
Valve type:	Standard, full lifting.
Materials:	Cast iron, nodular iron, bronze, stainless steel.
Ice-layer:	20 mm
Net clearance:	2-35 mm

Nominal sizes:	ND100 - 400
Options:	Proximity switches, dessicator, water restraining device for vacuum unit, heating jacket, drain valve for vent pipe.

Certification:	Certified by the Danish Government's Maritime Administration according to IMO MSC/Circ. 373/Rev.1. Installation to be according to IMO MSC/Circ.731 and maximum allowable vent pipe lengths approved by the Danish Maritime Administration.
	Approved for exclusively inerted tanks and group II A gas.

*Depending on use, spring may need replacement every 5-10 years.
**For non-hammering service.



Type HSV 2355

Item	Description
1	Housing
2	Adapter
3	Vacuum house
4	Pressure disc
5	Pressure seat
6	Stem
7	Lifting plate
8	Weight loading
9	Anti leakage insert
10	O-ring
11	Vacuum disc
12	Vacuum seat
13	Venting cover
14	Flame screen
15	Check lift, pressure
16	Check lift, vacuum

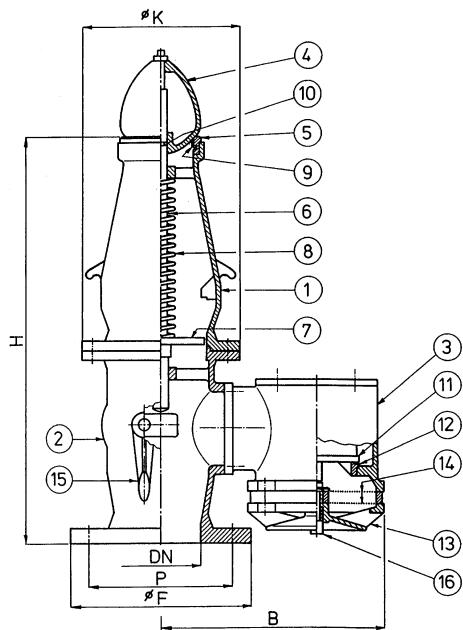
Available with any connection and in any material requested. Please ask for detail drawing and performance data sheets for any specific model and type.

drwg. no.:	2355
date:	890315
model:	-
drw. rev.:	0
drwg.:	AP
scale:	-
material:	-

Type HSV *Pressure/vacuum valve consisting of a combined high velocity valve and a vacuum valve*

Available in other flange standards upon request

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.



18		18	450				615	565	20xø25
17		16	400				565	515	16xø25
16	4	14	350	490	1030	670	505	460	16xø22
15		12	300				445	400	12xø22
14		10	250				395	350	12xø22
13		14	350				505	460	16xø22
12	3	12	300	390	850	525	445	400	12xø22
11		10	250				395	350	12xø22
10		8	200				340	295	8xø22
9		10	250				395	350	12xø22
8	2	8	200	280	675	385	340	295	8xø22
7		6	150				285	240	8xø22
6		5	125				250	210	8xø18
5		6	150				285	240	8xø22
4		5	125				250	210	8xø18
3	1	4	100	200	500	280	220	180	8xø18
2		3	80				200	160	4xø18
1		2,5	65				185	145	4xø18

Code no	HSV valve	DN inch	DN mm	°K mm	H mm	B mm	°F mm	P-mm	Holes drilling
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Parts list

Item	Description	Spec. 1	Spec. 2	Spec. 3	Spec. 4	Spec. 5
1	Housing	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
2	Adapter	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
3	Vacuum house	Cast iron	Cast iron	Bronze	Cast iron	Cast iron
4	Pressure disc	Stainless steel	Stainless steel	Stainless steel	Bronze	Bronze
5	Pressure disc	Stainless steel	Stainless steel	Stainless steel	Bronze	Bronze
6	Stem	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
7	Lifting plate	Stainless steel	Stainless steel	Stainless steel	Bronze	Bronze
8	Spring	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
9	Anti leakage insert	Nitrile NBR	Nitrile NBR	Nitrile NBR	Nitrile NBR	Nitrile NBR
10	O-ring	Nitrile NBR	Nitrile NBR	Nitrile NBR	Nitrile NBR	Nitrile NBR
11	Vacuum disc	Bronze	Stainless steel	Stainless steel	Bronze	Bronze
12	Vacuum seat	Bronze	Stainless steel	Stainless steel	Bronze	Bronze
13	Venting cover	Bronze	Stainless steel	Stainless steel	Bronze	Bronze
14	Flame screen	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
15	Check lift, pressure	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
16	Check lift, vacuum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel

Item 9 and 10 available in Vciton upon request.