

# Type K7 and K10

## Spill Valve

The Pres-Vac liquid overfill protection device is designed to prevent overpressurization of tanks due to overfilling which may occur should the high level alarm float be punctured, or the warning signals be ignored. The spill valve is always there and should it ever operate, the alternative was a ruptured tank and massive pollution.



Liquid overfill protection device type K

Spill valve type K provides safe operation assured by a design with few moving parts, manufactured to high quality standards. The valve is designed in accordance with ASTM F 1271 and satisfies regulation II-2/59.1.6 of the 1981 and 1983 amendments to the international convention for the Safety Of Life At Sea, SOLAS 1974. Type K can also be used as an emergency venting provision according to the special requirements for some chemicals. To limit vapor leakage, it features a flexible sealing system that utilize the tank pressure to enhance sealing in lieu of the opposite effect experienced with O-rings and other traditional sealings. Due to its full-lifting operation, type K\*\* generates no additional pressure drop to the set pressure until fully open at which point pressure drop will start to increase. The set pressure can be adjusted\* moderately but only with the use of tools to prevent wrongdoing by unauthorised personnel. If the spill valve setting does not fit with the pressure relief valve's characteristics, for instance, all conventional valves and many high velocity vents require a pressure increase in excess of the set-pressure to achieve full venting rate, this may cause the spill valve to open pre-maturely, especially where the P/V valve is installed on a header causing system pressure drop. If a considerable higher opening setting is needed, type K is easily modified by exchanging the weight at low cost.

\*Adjustment is no more than a few tenths of a psi, without equipment modification  
\*\*K7=7.000 bbls/hr and K10=10.000 bbls/hr.

### Features of type K7 and K10:

- Most simple design available
- Few moving parts
- Easy installation
- Standard flange connection
- Easy maintenance
- Active sealing providing lowest leakage available
- Easy replacement of seal, the same valve can use viton, buna-N, teflon etc.
- Self-closing checklift
- Suitable for use with any cargo
- High lifting performance enabling low pressure drop
- Closable for coastal voyage
- Encapsulated lever arm for crew protection

*Options: See specification*

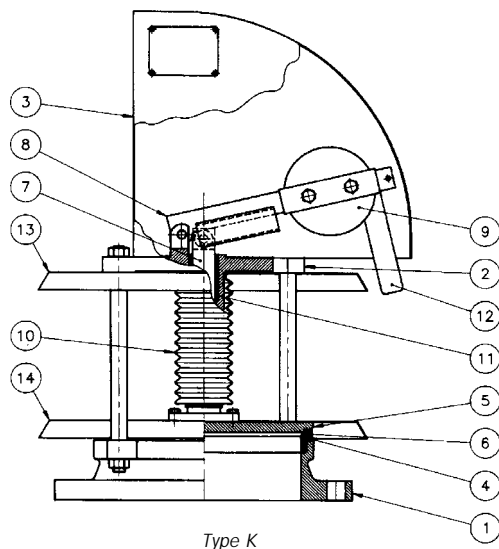
# Liquid overflow protection device

<b>Specifications:</b>	
<b>Type:</b>	K 2365
<b>Dimensions:</b>	See drawing 2365
<b>Setting*:</b>	To fit application
<b>Accuracy:</b>	± 2%
<b>Pressure drop in excess of set point:</b>	None until full open and flow volume exceeds the rated capacity of the valve
<b>Materials:</b>	Cast iron, nodular iron, bronze, stainless steel

<b>Nominal sizes:</b>	ND200 - 250
<b>Options:</b>	Various sealing systems including a true teflon packing utilizing the tank pressure for enhanced tightness. Seals are directly interchangeable. Protection Hood Snow Hood Closing bar

<b>Certification:</b>	Approved for installations as spill valve and emergency venting provision complies with ASTM F 1271 USCG acceptable
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*\*Correct sizing: The normal function of the p/v relief valves should not interfere with the spill valve. Thus, dynamic flow readings on both types of equipment should be compared with compensation for tolerances, pressure drop in the installation, density of vapors/gas growth rate in the venting system, density of liquid through the spill valve, fouling and viscosity.*



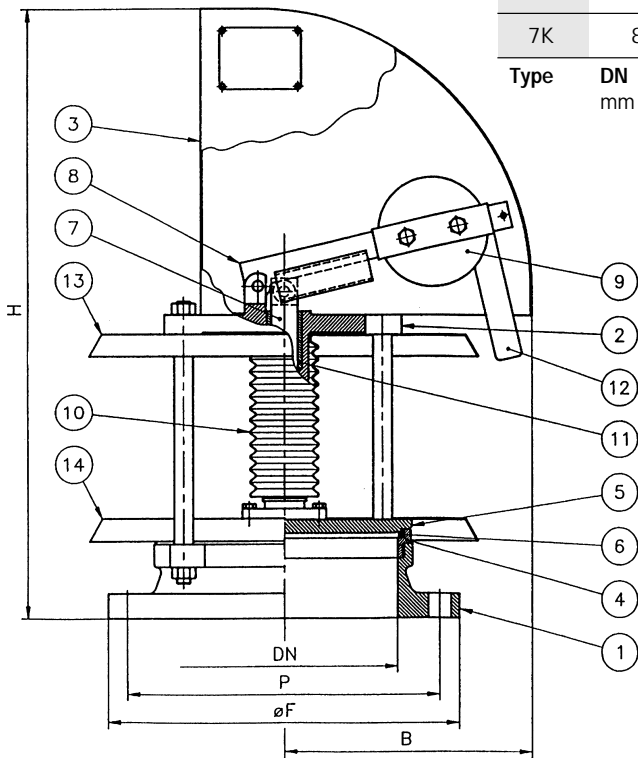
Item	Description
1	Flange
2	Top part
3	Cover
4	Seat
5	Disc
6	Anti leak insert
7	Stem
8	Lever
9	Weight
10	Bellow
11	Guide bushing
12	Check lift handle
13	Snow cover
14	Weather hood

*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.: 2365	
date: 931005	drwg.: AP
model: -	scale: -
drw. rev.: 3	material: -

# Type K

Liquid overfill protection device



10K	10	250	11,25	27,2	16	14,25	12x1"
7K	8	200	11,25	26,2	13,5	11,75	8x0,875"
Type	DN mm	DN mm	B mm	H mm	°F mm	P-mm drilling	Holes

Available in other materials upon request.

Opening settings are available between 1 and 3 psi, and are adjustable within ±5% on the valve.

Disc fixture can be attached using the two 1/2" UNC bolt holes in the flange after removal of the weather hood.

## Parts list

Item	Description	Spec. 1
1	Flange	Cast iron
2	Top part	Cast iron
3	Cover	Stainless steel
4	Seat	Stainless steel
5	Disc	Stainless steel
6	Anti leak insert	Viton*
7	Stem	Stainless steel
8	Lever	Stainless steel
9	Weight**	Stainless steel/lead
10	Bellow	Nitrile
11	Guide bushing	Maritime brass
12	Check lift handle***	Stainless steel
13	Snow cover***	Stainless steel
14	Weather hood***	Stainless steel

\*Interchangeable with teflon without any modification.

\*\*The weight is adjusted to correct opening setting and secured before delivery.

\*\*\*Optionals

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.