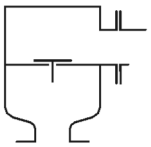
KITO Armaturen GmbH

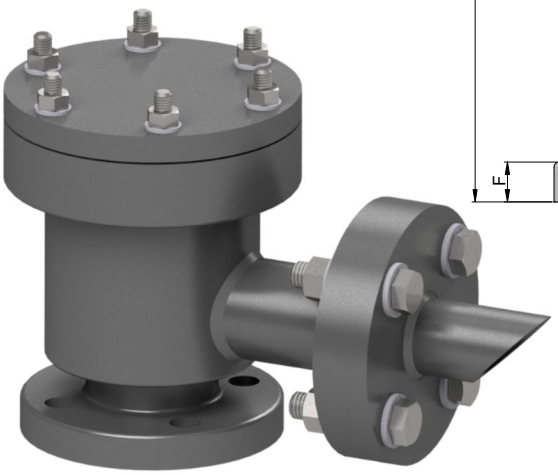
Type sheet
Pressure relief valve
KITO® DS/ScS-…

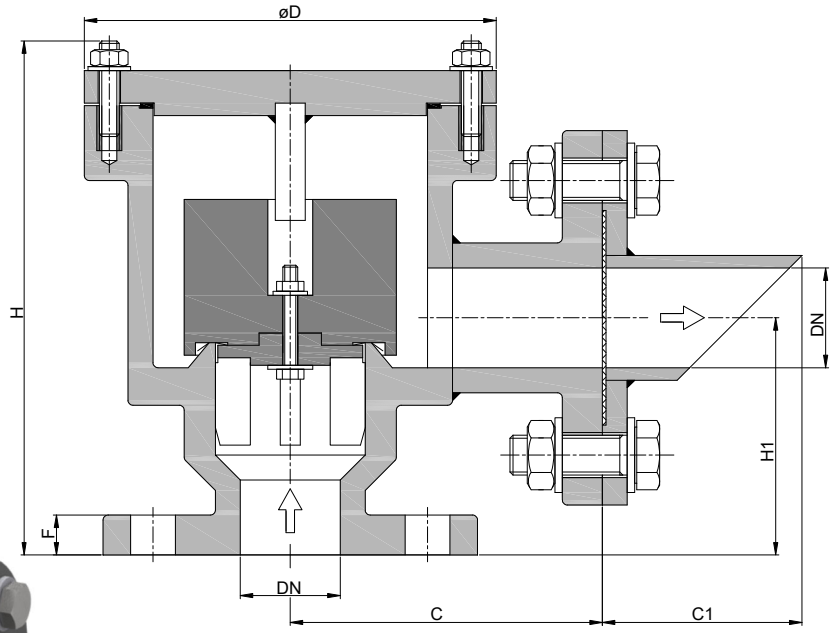


Application

Not explosion-proof valve to prevent dangerous pressures in tank installations. Valve is mounted on the tank roof, if desired by the customer, in connection with a vacuum valve.
In case of use in explosive atmospheres of gas/vapour-air mixtures ignition hazards need to be considered. Plastic material tends to electrostatic charging. The use should be completed respectively decided by a risk analysis considering country-specific rules and regulations.

Dimensions (mm) and settings (mbar)





DN		C	C1	D	H	H1	F	setting		kg
DIN	ASME							min. – max.	min. - max. *(with housing extension)*	
25 PN 40	**1“**	120	70	130	173	62	16	3.1 - 48	> 48 - 100	2.0
50 PN 16	**2“**	125	100	165	190	80	18	2.4 - 35	> 35 - 100	3.0
80 PN 16	**3“**	150	125	210	231	101	20	2.4 - 55	> 55 - 100	5.0
100 PN 16	**4“**	175	150	245	284	120	24	2.3 - 66	> 66 - 100	7.0
150 PN 16	**6“**	250	250	320	348	162	26	2.3 - 100	-	13.0
200 PN 10	**8“**	275	300	394	435	215	28	2.7 - 100	-	19.0

Indicated weights are understood without weight load and refer to the standard design

Example for order

KITO® DS/SCS-50
(design with flange connection DN 50 PN 16)

Without EC certificate and CE-marking

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K 3 N
Date: 10-2020
Created: Abt. Doku KITO
Design subject to change

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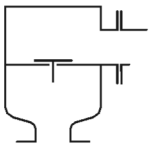


Design

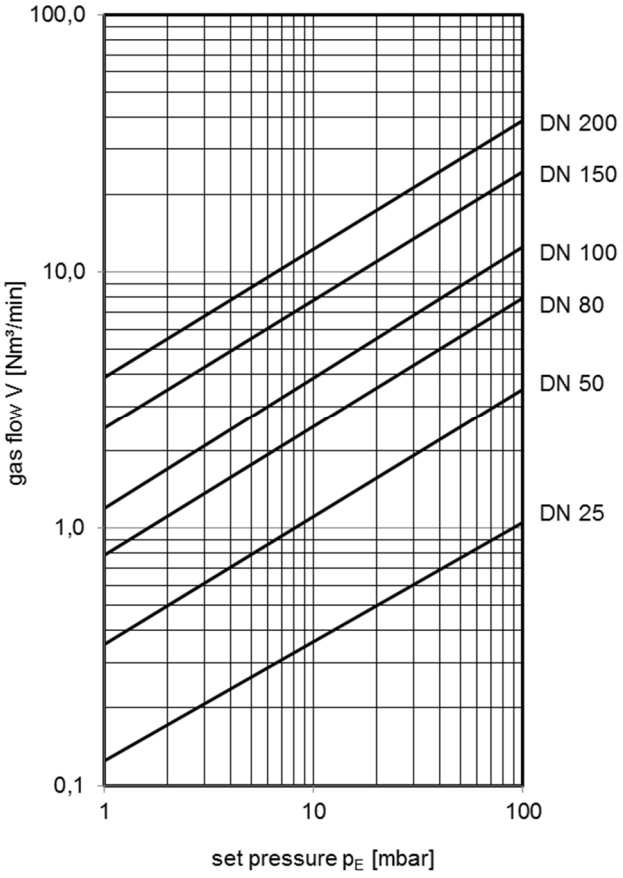
	standard	optionally
housing / cover	polyethylene (PE)	polypropylene (PP)
gasket	Gylon	
valve pallet / guidance	polyethylene (PE)	polypropylene (PP)
sealing foil	FEP	
load weight	polyethylene (PE) *(at higher settings PE/stainless steel)*	polypropylene (PP) *(at higher settings PP/stainless steel)*
bolts / nuts (inside)	PEEK	Hastelloy C4
bolts / nuts (outside)	A2	
protective screen	polyamide 6	
connection	flange EN 1092-1 type A	flange ASME B16.5 Class 150 RF, weld end

Performance curves

Flow capacity V based on air of a density ρ = 1.29 kg/m³ at T = 273 K and atmospheric pressure p = 1.013 mbar. For other gases the flow can be approximately calculated by

$$\dot{V}_{40\%} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \qquad or \qquad \dot{V}_b = \dot{V}_{40\%} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

The indicated flow rates will be reached by an accumulation of 40% above valve's setting (see DIN 4119).
If the allowable overpressure is less 40%, please consult der factory for the corrected volume flow.



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