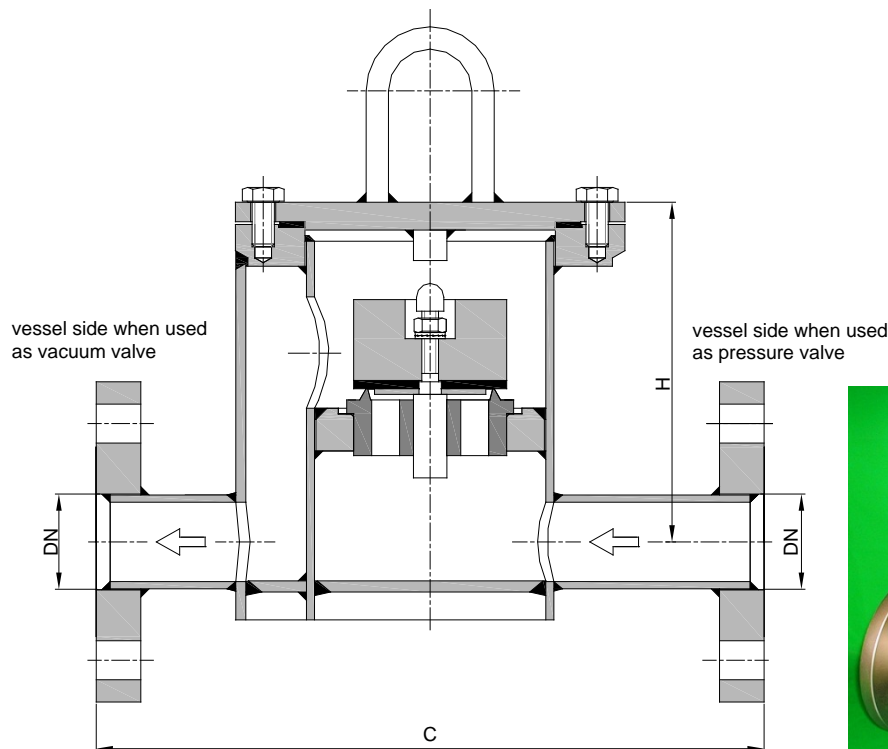
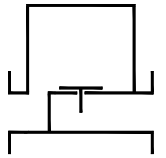


Relief Valve KITO® VD/TA



Without EC certificate and € -designation

DN	ANSI	C	H	kg*	setting (mbar)	
					min.	max.
25 PN 40	1"	240	200	10	2.5	105
32 PN 40	1 1/4"	240	212	12	2.5	95
40 PN 40	1 1/2"	350	272	18	1.8	300
50 PN 16	2"	350	267	19	1.8	270
65 PN 16	2 1/2"	350	287	20	1.5	165
80 PN 16	3"	350	325	25	1.6	195
100 PN 16	4"	450	357	30	1.6	260
125 PN 16	5"	500	394	35	1.4	215
150 PN 16	6"	550	441	42	1.7	230

Dimensions in mm

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

Standard valve setting 7-30 mbar -different settings against additional price-

Construction length C can be adapted to customers wish to local situation.

Design subject to change

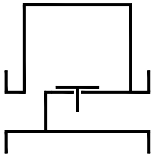
performance curves: F 0.30 N

Standard design

housing : steel, stainless steel mat. no. 1.4571
 valve seat and spindle : stainless steel mat. no. 1.4571
 valve sealing : NBR, Viton, PTFE
 gasket : HD 3822, PTFE
 flange connection : DIN EN 1092-1 form,
 ANSI 150 lbs. RF

Application

as inline armature with venting or breather valve function for vessels.
 Preferably used for installation in pipes.
 Depending on the installation, the valve can be used as pressure or vacuum valve.
 It can also be used as non-return safety device or overflow valve.



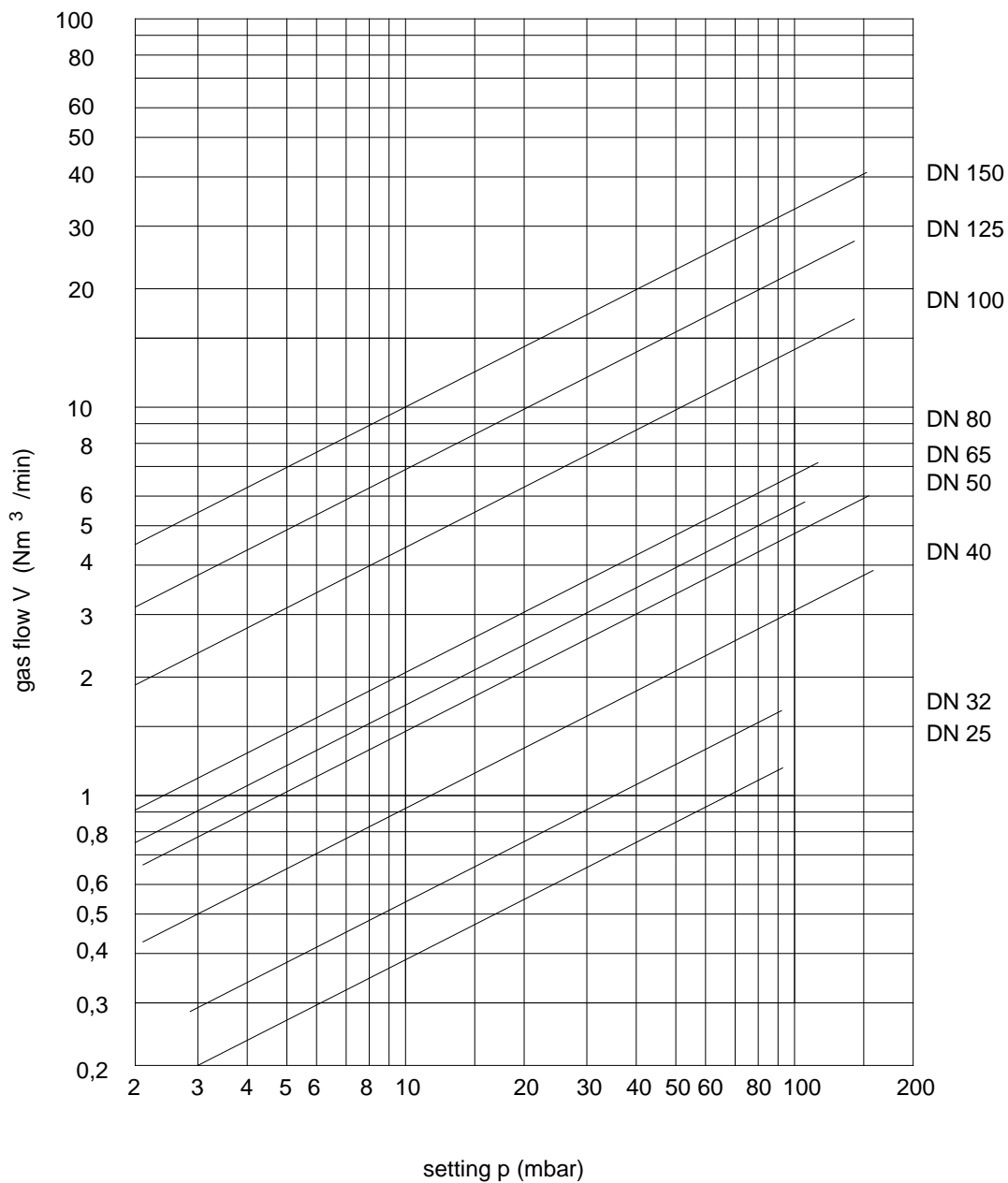
Relief Valve
KITO® VD/TA
F 30 N

Flow capacity V based on air of a density $\rho = 1.29 \text{ kg/m}^3$ at $T = 273 \text{ K}$ and atmospheric pressure $p = 1.013 \text{ mbar}$. For other gases the flow can be approximately calculated by

$$\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \quad \text{or} \quad \dot{V}_b = \dot{V} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

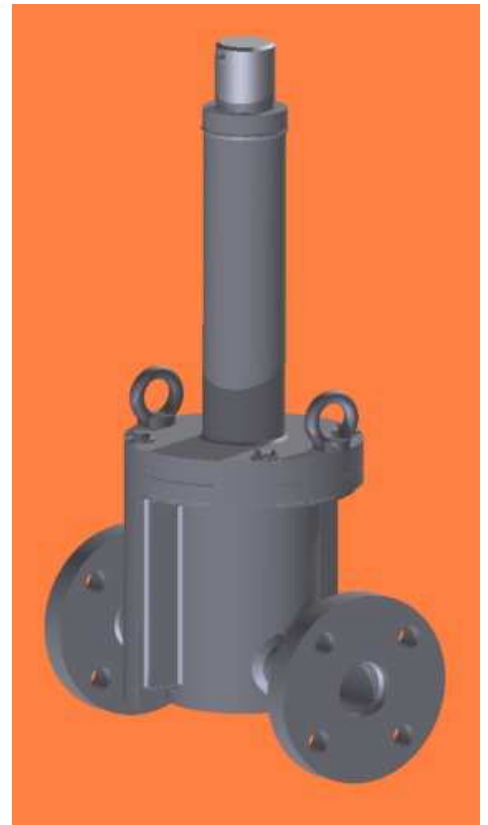
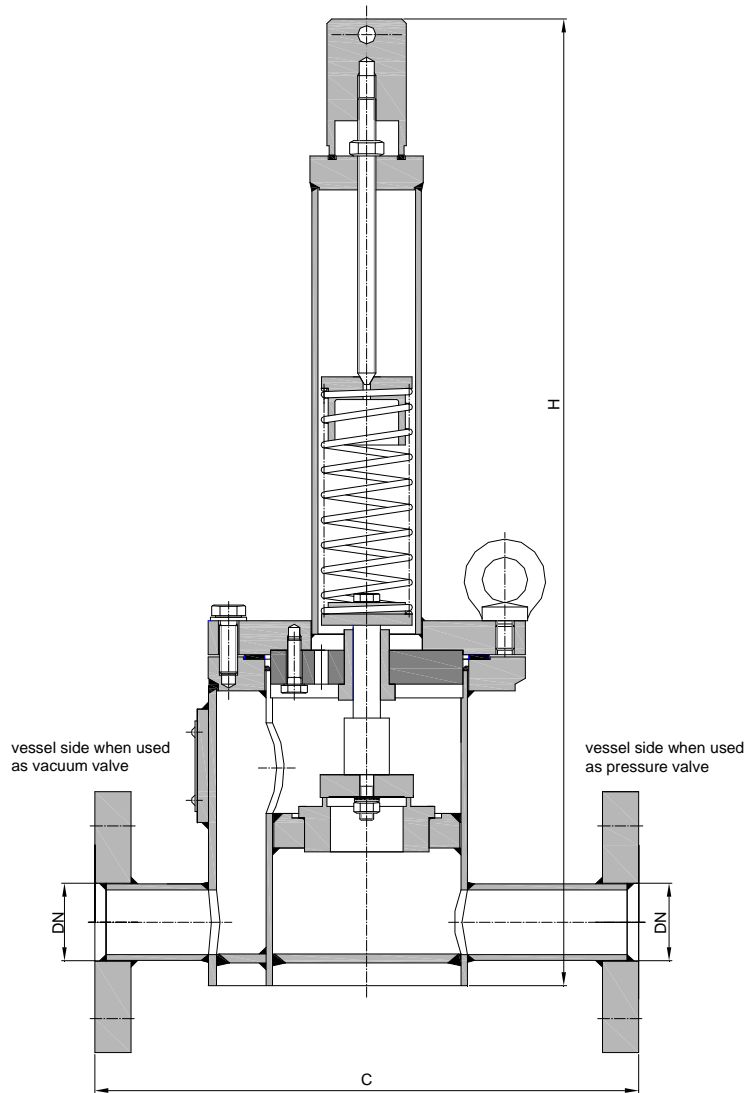
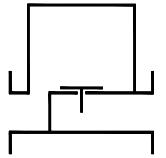
Air flow capacity at 40% above valve setting (see DIN 4119). If different accumulations are required see page A 32 for correcting factor.

Curves indicated by require special weight loads.



Design subject to change

Relief valve KITO® VD/TA-1



**Without EC certificate and
CE -designation**

**Construction length C can be adapted to
customers wish to local situation.**

DN	ANSI	C	H	kg	setting* (mbar)	
					min.	max.
25 PN 40	1"	240	406	11,0	200	350
32 PN 40	1 ¼"	240	421			
40 PN 40	1 ½"	350	482			
50 PN 16	2"	350	482			
65 PN 16	2 ½"	350	743			
80 PN 16	3"	350	743			
100 PN 16	4"	450	775		150	
125 PN 16	5"	500				
150 PN 16	6"	550				

Dimensions in mm

* minor settings see type sheet F 30 N, higher settings on request.

Design subject to change

performance curves: F 0.30.1 N

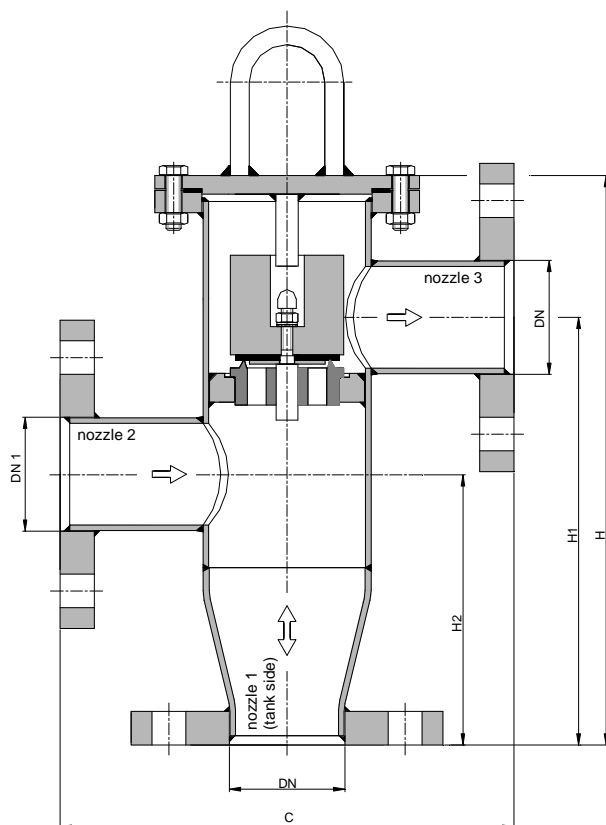
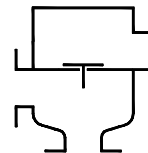
Standard design

housing / cover	: steel, stainless steel 1.4571
valve pallet	: spring loaded
valve seat and spindle	: stainless steel 1.4571
valve sealing	: metal sealing
spring loaded parts	: stainless steel 1.4571
compression spring	: stainless steel 1.4301
gasket	: HD 3822, PTFE
flange connection	: DIN EN 1092-1 form A, ANSI 150 lbs. RF

Application

as inline armature with venting or breather valve function for vessels.
Preferably used for installation in pipes.
Depending on the installation, the valve can be used as pressure or vacuum valve.
It can also be used as non-return safety device or overflow valve.

Tank Venting Valve KITO® VL/TA



Without EC certificate and €-designation

DN	ANSI	DN1	ANSI 1	C	H	H1	H2	kg*	setting (mbar)	
									min.	max.
40 PN 40	1 1/2"	50	2"	240	305	230	145	12.0	2.5	90
50 PN 16	2"	50	2"	240	305	230	145	12.5	2.5	93
65 PN 16	2 1/2"	80	3"	350	400	305	200	22.0	1.8	130
80 PN 16	3"	80	3"	350	415	320	205	24.0	1.5	70
100 PN 16	4"	100	4"	350	475	365	230	26.5	1.6	127
125 PN 16	5"	125	5"	450	545	415	250	44.0	1.6	136
150 PN 16	6"	150	6"	500	595	445	255	53.5	1.6	165

Dimensions in mm

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

Standard valve setting 7-30 mbar -different settings against additional price-

Construction length C can be adapted to customers wish to local situation and orientation of nozzle 3.

Design subject to change

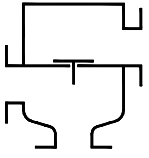
performance curves: F 0.50 N

Standard design

housing	: steel, stainless steel mat. no. 1.4571
valve seat and spindle	: stainless steel mat. no. 1.4571
valve sealing	: NBR, Viton, PTFE
gasket	: HD 3822, PTFE
flange connection	: DIN EN 1092-1 form A, ANSI 150 lbs. RF

Application

Distributing piece for vertical flange connection to a tank connecting pipe.
The tank connection is nozzle 1. The two branching connections have many uses. Nozzle 2 can be used to connect a vacuum valve or an inert gas conduit, nozzle 3 with pressure valve function can be used as protection against pressure or to carry away exhaust gas or as gas compensation when filling a tank. For flammable storage media, the vacuum valve (connecting nozzle 2) and the connection 3 have to be secured with the respective flame arrester.



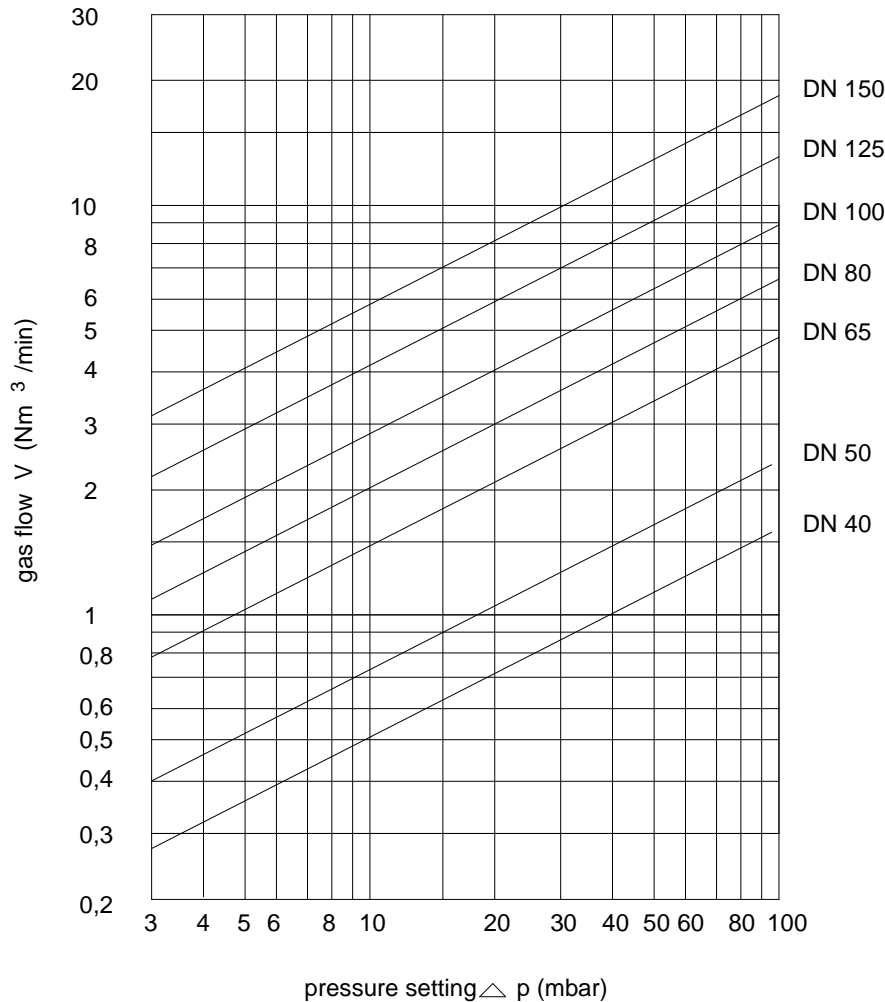
Tank Venting Valve
KITO® VL/TA
F 50 N

Flow capacity V based on air of a density $\rho = 1.29 \text{ kg/m}^3$ at $T = 273 \text{ K}$ and atmospheric pressure $p = 1.013 \text{ mbar}$. For other gases the flow can be approximately calculated by

$$\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \quad \text{or} \quad \dot{V}_b = \dot{V} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

Air flow capacity at 40% above valve setting (see DIN 4119). If different accumulations are required see page A 32 for correcting factor.

Curves indicated by — — — — require special weight loads.



Design subject to change