TÜV/CE atmospheric discharge safety valves for industrial applications

→ Series 410

410

Safety valves made of stainless steel, atmospheric discharge, with threaded connections



SUITABLE FOR

Air, gases and vapours	neutral

EXAMPLES OF USE

For the protection of:
- pressure tanks and
- pressure systems

for air and other neutral, non-poisonous and non-flammable gases which can be freely discharged into the environment.
Please observe plant-specific regulations and use of appropriate valve version and sealing material.

- pneumatic control units
- pressure booster plants air-side
- waste water treatment plants
- transport- and railway applications
- pneumatic braking systems
- secondary areas in the food-, pharmaceutical- and cosmetics- industries

Safety valves are set and sealed at the factory.

MATERIAL

SPECIFICATION

1/4“ – 1“	– 60°C to + 225°C depending on version	0,2 – 50 bar

APPROVALS

TÜV Type test approval 2055	**D/G**
EC type examination	**S/G**
GOST-R	**D/G (S/G)**

Requirements

AD 2000 Data sheet A2
DIN EN ISO 4126-1
PED 97/23/EC

Classification society

Germanischer Lloyd	GL
Lloyd's Register EMEA	LR EMEA
Bureau Veritas	BV
American Bureau of Shipping	ABS

MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Stainless steel	1.4404	316 L
Outlet body	Stainless steel	1.4404	316 L
Internal parts	Stainless steel	1.4404	316 L
Spring	Stainless steel	1.4310	302

VALVE VERSION

s	Standard	cylindrical form, atmospheric discharge, for air and similar neutral, non-toxic and non-flammable gases that can be freely discharged into the atmosphere.

MEDIUM

G	gaseous	Air and similar neutral gases

TYPE OF LIFTING MECHANISM

K	Standard with twist-type lifting mechanism

AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN	**8**	**10**	**15**	**20**	**25**
Inlet	1/4“ (8)	3/8“ (10)	1/2“ (15)	3/4“ (20)	1“ (25)
Atmospheric discharge via outlet apertures	■	■	■	■	■

TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

m / –	Standard	Male thread BSP-P / –	DIN EN ISO 228-1 / –

SEALS

FKM	Fluorocarbon	Elastomere flat seal 0,2 – 25 bar	–20°C to +200°C
PTFE	Polytetrafluoroethylene	Flat seal 25,1 – 50 bar	–60°C to +225°C
On request			
NBR	Nitrile rubber	Elastomere flat seal 0,2 – 25 bar	–30°C to +130°C
Against surcharge			
PTFE	Polytetrafluoroethylene	Flat seal 0,2 – 25 bar	–60°C to +225°C

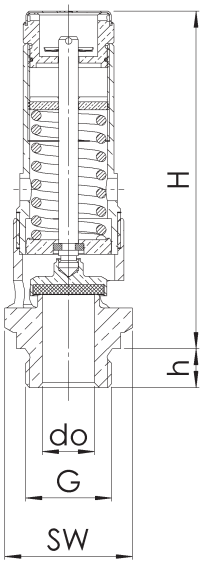
OPTIONS

Special versions on request.

NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 410: Connection, installation dimensions, ranges of adjustment						
Nominal diameter	**DN**	**8**	**10**	**15**	**20**	**25**
Connection DIN EN ISO 228	**G**	1/4" (8)	3/8" (10)	1/2" (15)	3/4" (20)	1" (25)
Installation dimensions in mm	**H**	60	78	79	104	111
	h	10	10	12	12	14
	SW	19	24	27	34	41
	do	7,5	10	11	16	20
Weight	**kg**	0,1	0,16	0,19	0,4	0,6
Range of adjustment	**bar**	0,2-50	0,2-50	0,2-50	0,2-50	0,2-50

MAIN DIMENSIONS, INSTALLATION DIMENSIONS



INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Nominal diameter DN	Connection type		Connection size		Seal	Options	Set pressure	Quantity
					Inlet	Outlet	Inlet	Outlet				
410	**s**	**G**	**K**	*8*	**m**	–	*8*	–	*FKM*		*10,0*	*5*
410	**s**	**G**	**K**		**m**	–		–				
410	**s**	**G**	**K**		**m**	–		–				
410	**s**	**G**	**K**		**m**	–		–				

In this table you can configure a valve according to your individual requirements (similar to the *example* shown, which should be deleted before you enter your own data). Please complete the table by hand using the abbreviations in this datasheet and then fax it to: +49(0)7141.4889488
Please do not forget to add your personal data so that our sales team can contact you.

Name

First Name

Company

Telephone

E-Mail

CAPACITY TABLE

Series 410: Blowing-off rates at 10% above set pressure						
	Nominal diameter DN	8	10	15	20	25
	Set pressure bar					
	0,2	20	35	46	100	133
Air	0,3	25	45	54	119	144
Nm³/h	0,4	29	52	67	137	167
	0,5	32	58	74	158	185
	0,6	35	64	82	172	211
	0,7	37	70	87	187	235
	0,8	41	74	95	200	260
	0,9	43	80	101	213	282
	1	46	85	107	227	305
	1,5	60	108	137	286	408
	2	73	132	166	346	506
	3	100	182	222	465	699
	4	125	228	279	584	889
	5	151	274	336	703	1070
	6	176	321	393	821	1251
	7	201	367	450	940	1432
	8	227	414	507	1059	1613
	9	252	460	564	1178	1794
	10	278	507	621	1297	1975
	11	303	553	678	1416	2156
	12	329	599	735	1535	2337
	13	354	646	791	1654	2518
	14	380	692	848	1773	2700
	15	405	739	905	1891	2881
	16	431	785	962	2010	3062
	17	456	832	1019	2129	3243
	18	482	878	1076	2248	3424
	19	507	925	1133	2367	3605
	20	533	971	1190	2486	3786
	21	558	1017	1247	2605	3967
	22	584	1064	1304	2724	4148
	23	609	1110	1361	2843	4329
	24	635	1157	1417	2961	4510
	25	660	1203	1474	3080	4691
	26	685	1250	1531	3199	4872
	27	711	1296	1588	3318	5053
	28	736	1342	1645	3437	5234
	29	762	1389	1702	3556	5415
	30	787	1435	1759	3675	5597
	31	813	1482	1816	3794	5778
	32	838	1528	1873	3913	5959
	33	864	1575	1930	4031	6140
	34	889	1621	1986	4150	6321
	35	915	1667	2043	4269	6502
	36	940	1714	2100	4388	6683
	37	966	1760	2157	4507	6864
	38	991	1807	2214	4626	7045
	39	1017	1853	2271	4745	7226
	40	1042	1900	2328	4864	7407
	41	1068	1946	2385	4983	7588
	42	1093	1993	2442	5101	7769
	43	1119	2039	2499	5220	7950
	44	1144	2085	2556	5339	8131
	45	1170	2132	2612	5458	8313
	46	1195	2178	2669	5577	8494
	47	1220	2225	2726	5696	8675
	48	1246	2271	2783	5815	8856
	49	1271	2318	2840	5934	9037
	50	1297	2364	2897	6053	9218