

→ Series 410



■ SUITABLE FOR

Air, gases and vapours	neutral	
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■ 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.

■ APPROVALS

TÜV Type test approval 2055	D/G
EC type examination	S/G
TSG ZF001-2006	D/G (S/G)
TR ZU 032/2013 - TR ZU 010/2011	D/G (S/G)

Requirements

AD 2000 Data sheet A2
DIN EN ISO 4126-1
PED 2014/68/EU

Classification society

Germanischer Lloyd	GL
Lloyd's Register EMEA	LR EMEA
Bureau Veritas	BV
American Bureau of Shipping	ABS
Det Norske Veritas	DNV
Russian Maritime Register of Shipping	RS



■ MATERIAL



■ SPECIFICATION



1/4" – 1"



– 60°C to + 225°C
depending on version



0,2 – 50 bar

■ 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	1.4568	631

■ 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.
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■ MEDIUM

G	gaseous	Air and similar neutral gases
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■ TYPE OF LIFTING MECHANISM

K	Standard with twist-type lifting mechanism	
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■ 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 / -
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■ 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

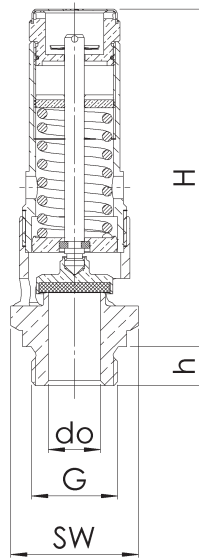
■ OPTIONS

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	65	78	66	79	94	104	111
	h	10	10	10	12	12	12	12	14
	SW	19	24	24	27	27	36	36	41
	do	7,5	10	10	11	11	16	16	20
Weight	kg	0,1	0,14	0,16	0,17	0,19	0,35	0,4	0,6
Range of adjustment	bar	0,2-50	0,2-9	9,1-50	0,2-7	7,1-50	0,2-9	9,1-50	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						
Air Nm ³ /h	0,2	20	35	46	100	133
	0,3	25	45	54	119	144
	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	