

Safety Valve



General

The hygienic AWH safety valve, the latest product in the AWH valve portfolio, reliably protects tanks and piping systems against overpressure when all automatic regulating, control and monitoring systems have failed. Mechanically loaded safety valves are indispensable for the secondary protection of your systems, because they open reliably without adding any auxiliary energy.

The minimal dead space design offers the greatest possible protection against contamination in the areas that come into contact with the product and those that do not. The valve with its properties is therefore suitable for the food, beverage, bio-pharmaceutical and cosmetic industries.

The mechanics of the new spring-loaded valve are mounted on the inside, above the diaphragm. This protects all moving components from contamination. Thanks to the special, standard lifting mechanism, the valve cannot be accidentally blocked. All components in contact with the product are made of high-quality stainless steel 1.4404 (316L). The safety valve is factory set and sealed.

A pneumatic lifting device can be ordered as an option. This device can be used to perform function tests or to open the valve pneumatically during purging processes. As a further option, function monitoring by sensor can be ordered. This sensor provides feedback when the valve is open. The sensor is thus not only used to monitor the cleaning cycles, but also reports an opening of the valve when the pressure in the line system is too high.

Technical Data

Response pressure:	DN25 - 80: 0.5 - 10.0 bar DN100: 0.5 - 7.0 bar
Increments:	0.1 bar increments
Classification:	normal-acting, release according to EN ISO 4126
Operating temperature:	10 °C - 95 °C
Material:	1.4404 (316L) in contact with the product
Sealing material:	EPDM, FDA-compliant
Nominal widths:	DN25 - DN100
Flow rates:	see table on page 3
Medium:	non-adhesive liquids and gases
Outlet:	either pipe or flange connection
Inlet:	Flanges and connections according to customer requirements



Possible connection types (inlet & outlet)

Connection type	Standard
Aseptic connections	DIN 11864
Hygienic connections	DIN 11853
Dairy pipe connection	DIN 11851
RJT connection	BS4825
SMS connection	SMS 1145
IDF connection	ISO 2853
DS connection	DS 722
TC connection	ISO 2852
TC connection	DIN 32676
TC connection	BS 4825
Flange	EN 1092
Neumo ConnectS®	TÜV approved
Neumo BioConnect®	TÜV approved

Flow rates

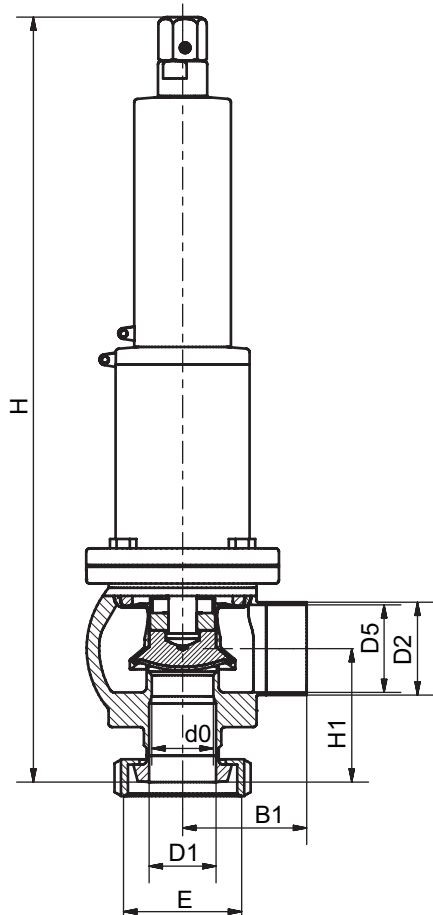
Response pressure [bar]	DN25		DN40		DN50		DN65		DN80		DN100	
	Air Vn [m ³ /h]	Water Vn [m ³ /h]	Air Vn [m ³ /h]	Water Vn [m ³ /h]	Air Vn [m ³ /h]	Water Vn [m ³ /h]	Air Vn [m ³ /h]	Water Vn [m ³ /h]	Air Vn [m ³ /h]	Water Vn [m ³ /h]	Air Vn [m ³ /h]	Water Vn [m ³ /h]
0.5	283	9.6	472	15.6	780	26.2	1070	42	1845	63	3112	110
1	434	13.1	723	21.1	1189	35.5	1777	56	2732	85	4464	148
1.5	580	16.0	981	25.8	1620	43.5	2405	68	3613	102	5998	179
2	720	18.5	1238	29.8	2029	50.2	2989	78	4491	117	7572	205
2.5	867	20.6	1475	33.3	2420	56.2	3542	87	5322	130	9119	228
3	1001	22.6	1719	36.5	2800	61.5	4034	95	6183	142	10571	249
3.5	1136	24.4	1955	39.4	3185	66.5	4616	102	6937	154	11860	268
4	1282	26.1	2184	42.2	3546	71.1	5118	109	7691	164	13380	286
4.5	1412	27.7	2418	44.7	3908	75.4	5620	115	8445	174	14691	303
5	1543	29.2	2642	47.1	4269	79.4	6122	122	9199	183	16003	319
5.5	1673	30.6	2865	49.4	4630	83.3	6624	127	9953	191	17315	335
6	1804	32.0	3089	51.6	5077	87.0	7125	133	10707	200	18627	349
6.5	1934	33.3	3312	53.8	5445	90.6	7627	138	11461	208	19938	363
7	2065	34.5	3536	55.8	5812	94.0	8129	143	12215	216	21250	377
7.5	2195	25.8	3759	57.7	6180	97.3	8631	148	12969	223		
8	2326	36.9	3983	59.6	6547	100.5	9132	153	13722	230		
8.5	2456	38.1	4206	61.5	6914	103.6	9634	158	14476	237		
9	2587	39.2	4430	63.2	7282	106.6	10136	162	15230	244		
9.5	2717	40.2	4654	65.0	7649	109.5	10638	167	15984	251		
10	2848	41.3	4877	66.7	8017	112.4	11140	171	16738	257		

At 10% pressure increase and at atmospheric counter pressure; the standard conditions apply to air: 1.013 bar / 0 °C

Dimensions (liner DIN 11851)

	DN25	DN40	DN50
Min. H	440	440	470
H1	76	76	95
B1	70	70	80
d0	24	35	46
D1	26	38	50
D2	53	53	70
D5	50	50	66
E	Rd.52 x 1/6"	Rd.65 x 1/6"	Rd.78 x 1/6"

	DN65	DN80	DN100
Min. H	600	620	690
H1	107	117	146
B1	100	115	148
d0	62	76	94
D1	66	81	100
D2	85	104	129
D5	81	100	125
E	Rd.95 x 1/6"	Rd.110 x 1/4"	Rd.130 x 1/4"





Armaturenwerk Hötensleben GmbH
 Schulstr. 5-6
 D-39393 Hötensleben

Tel: +49 39405 92-0
 Fax: +49 39405 92-111
 E-Mail: info@awh.eu
 http://www.awh.eu

NEUMO Ehrenberg Group

