

safety valve
series SV07, SV07

Safety-Valve, springloaded

for non-toxic steam and gases

Standard version:

Material:	Inlet body	/ Bonnet pipe	metal seated
Typ 110.1:	1.4571	/ 2.0401	-10°C to 130°C
Typ 110.2:	1.4571	/ 1.4301	-60°C to 130°C
Connections:	soft seated		
Screwed connection: DIN ISO 228 / ASME B1.20.1			see techn. appendix: KWD-1

Approvals:

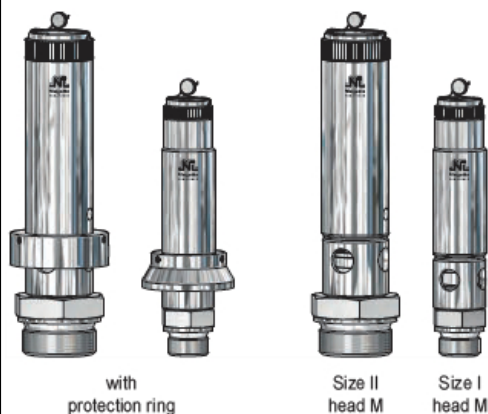
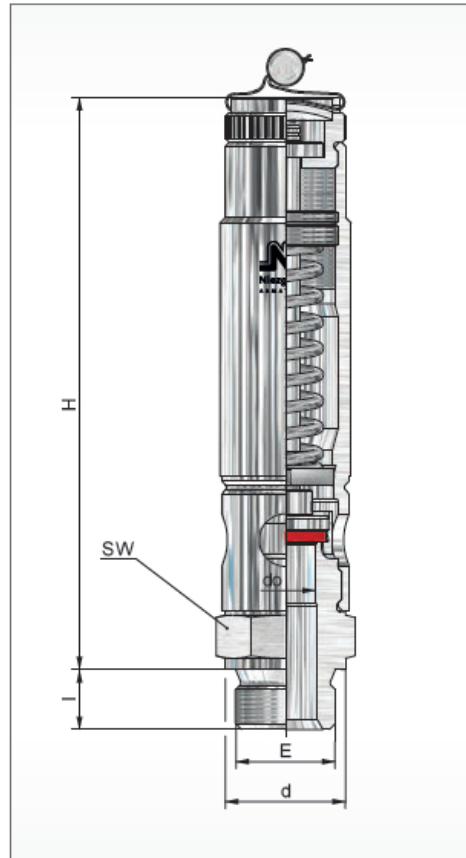
Pressure Equipment Directive: 2014/68/EU
Declaration of Conformity



TÜV - Approval:

VdTÜV-leaflet, AD 2000-leaflet A2

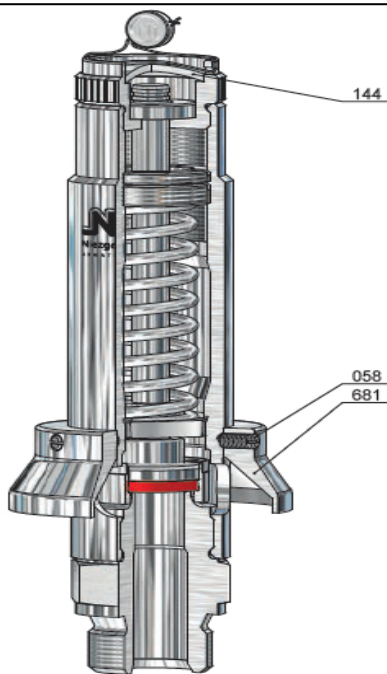
TÜV • SV • XX-990 / 1050 • do • D/G • α_W • p



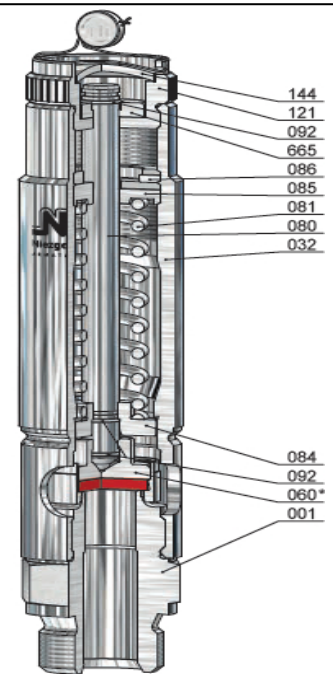
Size	Inlet				Outlet A	Dimensions		Height 'H' for head				Coefficient D/G	Set pressure		Weight
	E	d	I (G)	I (NPT)		SW	do	M			p min.		p max.		
		[mm]	[mm]	[mm]		[mm]	[mm]		[mm]			Qw max.	[bar(g)]	[bar(g)]	~ [kg]
I	¾	22	12	11	free	32	10	153				0,29	0,1	52	0,5
							8					0,48	15,0	84	
							12,5					0,12	0,1	45	
	½	26	14	14			10					0,29	0,1	52	
							8					0,48	15,0	84	
							16					0,12	0,05	31	
	¾	32	16	14			12,5					0,12	0,1	45	
							10					0,29	0,1	52	
							8					0,48	15,0	84	
							16					0,12	0,05	31	
							12,5					0,12	0,1	45	
							10					0,29	0,1	52	
					8	0,48	15,0	84							
II	½	26	14	14	free	41	12,5	190				0,47	0,09	67	0,8
							16					0,38	0,06	60	
	¾	32	16	14		41	12,5					0,47	0,09	67	
							16					0,38	0,06	60	
	1	39	18	18		41	12,5					0,47	0,09	67	
							27					0,20	0,03	25	
	1 ¼	49	20	18		50	22					0,20*	0,04	35	
							16					0,38	0,06	60	
							27					0,20*	0,03	25	
							22					0,20*	0,04	35	
	1 ½	55	22	19		55	22					0,20*	0,03	25	1,0
							27					0,20*	0,04	35	
2	60	24	20	60	27	0,20*	0,03	25							

Discharge capacities

Size	I				II					
do [mm]	8	10	12,5	16	12,5	16	22	22	27	27
Fluid	Air 0°C [m ³ /h]				Air 0°C [m ³ /h]					
Coefficient of discharge	Q _w max. 0,48	Q _w max. 0,29	Q _w max. 0,12	Q _w max. 0,12	Q _w max. 0,47	Q _w max. 0,38	Q _w max. 0,20	Q _w max. 0,16	Q _w max. 0,20	Q _w max. 0,15
Pe [bar(g)]										
0,05				7		18	19		25	
0,1		9	5	10	20	25	29		38	
0,2		12	7	15	29	37	40		53	
0,3		15	8	17	37	45	52		69	
0,4		18	11	21	43	54	60		85	
0,5		20	13	23	49	62	67		100	
1,0		31	19	35	78	98	104		148	
1,5		40	25	44	100	128	131		197	
2,0		49	30	53	124	159	158		238	
2,5		58	38	62	148	192	185		279	
3,0		67	43	71	170	225	224		337	
3,5		76	49	80	191	253	252		380	
4,0		84	54	89	213	282	281		423	
4,5		93	60	98	234	311	309		466	
5,0		101	65	107	256	339	338		509	
6,0		118	77	125	299	397	395		595	
7,0		135	88	143	342	454	452		681	
8,0		153	99	162	386	512	509		767	
9,0		170	110	180	429	569	565		853	
10,0		187	121	198	472	627	624			703
12,0		221	143	234	559	742	739			812
14,0		256	165	271	645	858	854			938
15,0	289	273	177	289	688	916	911			1002
16,0	308	290	188	307	731	973	969			1065
18,0	344	325	210	344	818	1089	1084			1192
20,0	381	359	232	380	904	1205	1199			1318
25,0	472	446	288	472	1129	1495	1488			1636
30,0	564	533	344	564	1348	1787		1422		
35,0	656	620	401		1568	2079		1653		
40,0	748	707	457		1788	2373				
45,0	840	795	514		2008	2667				
50,0	932	883			2228	2962				
60,0	1117				2670	3556				
70,0	1301									
80,0	1486									



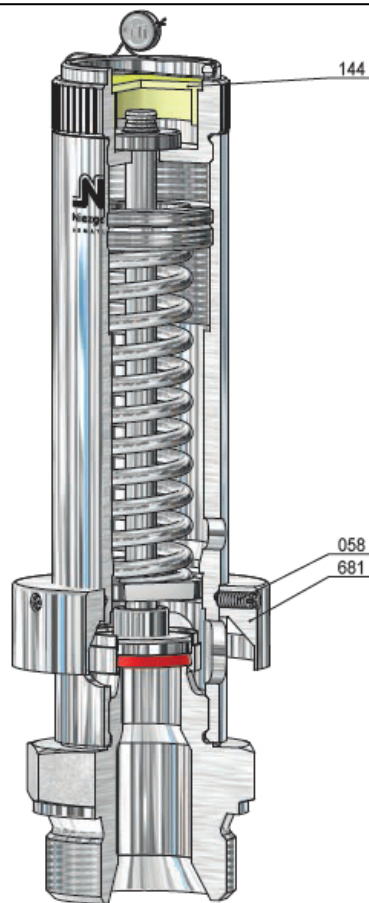
with protection ring
recommend at each do
for $p > 30$ [bar(g)]



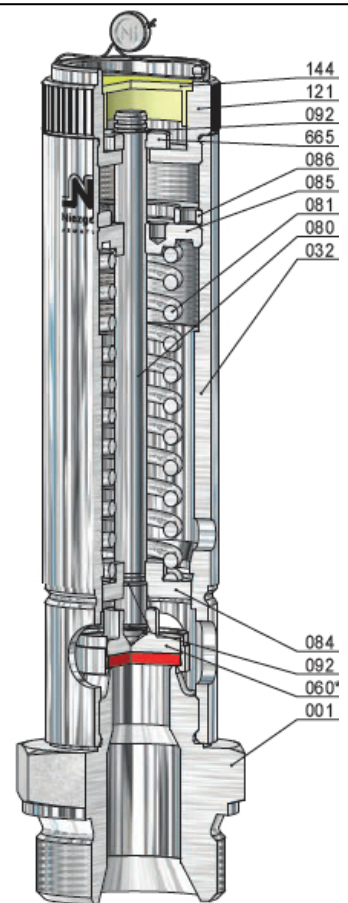
Size I
head M, liftable

Item	Piece	Description	Item	Piece	Description
001	1	inlet body	121	1	lifting cap
032	1	bonnet pipe	144	1	lock washer
058	3	screwed pin	665	1	washer
060 *	1	disc, complete	681	1	protection ring
560	1	disc			
062	1	soft sealing			
063	1	disc ring			
080	1	spindle			
081	1	spring			
084	1	springplate, lower			
085	1	adjusting screw			
086	1	lock nut			
092	3	lock ring			

* expendable parts



with protection ring
recommend at each
do 12,5; 16: for / p > 30 [bar(g)]
do 22: for / p > 10 [bar(g)]
do 27: for / p > 8 [bar(g)]



Size II
head M, liftable

Item	Piece	Description	Item	Piece	Description
001	1	inlet body	121	1	lifting cap
032	1	bonnet pipe	144	1	lock washer
058	3	screwed pin	665	1	washer
060 *	1	disc, complete	681	1	protection ring
560	1	disc			
062	1	soft sealing			
063	1	disc ring			
080	1	spindle			
081	1	spring			
084	1	springplate, lower			
085	1	adjusting screw			
086	1	lock nut			
092	3	lock ring			

* expendable parts

illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice