

STAINLESS STEEL SAFETY VALVES

N8S / N8-LS

Technical Data

Low Lift Safety Valves

Material: Body- CF8M; Valve Seat- CF8M Metal Seat, PTFE Soft Seat available

Orifice Size: ½"(15mm), ¾"(20mm), 1"(25mm), 1¼"(32mm), 1½"(40mm), 2"(50mm)

Working Pressure: 0.3~10 kgf/cm² (4.3~150 psig) (CF8M Metal Seat);

2~10 kgf/cm² (28~150 psig) (CF8M Metal Seat & PTFE Soft Seat are available);

11~20 kgf/cm² (156~285 psig) (CF8M Metal Seat & PTFE Soft Seat are available)

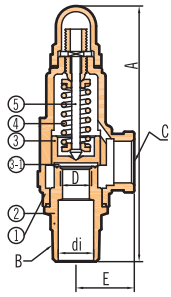
21~30 kgf/cm² (298~426 psig) (CF8M Metal Seat)

Working Temperature: -60°C~+196°C

Working Fluid: Please refer to the table of "General Material List"

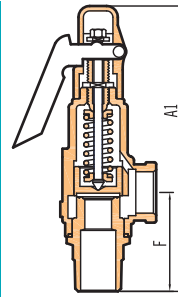


Dimensions



N8S Type
Sealing ½"~2"

SEALING SERIES		SIZE					
ITEM	½"x1"	¾"x1"	1"x1"	1¼"x2"	1½"x2"	2"x2"	
A	176	176	180	255	260	260	
Inlet B	½"	¾"	1"	1¼"	1½"	2"	
Outlet C	1"	1"	1"	2"	2"	2"	
Inlet Orifice di	15	20	25	32	40	50	
Valve Seat Orifice D	22	22	22	38	38	38	
E	40	40	40	66	66	66	
F	67	67	71	93	98	98	
Lift	0.88	0.88	0.88	1.52	1.52	1.52	
Wt. kg	1.1	1.2	1.2	4.6	4.6	4.6	



N8LS Type
Lever ½"~2"

LEVER SERIES		SIZE					
ITEM	½"x1"	¾"x1"	1"x1"	1¼"x2"	1½"x2"	2"x2"	
A1	199	199	203	279	284	284	
Wt. kg	1.3	1.3	1.3	4.8	4.8	4.9	

(unit:mm)

General Material List

NO.	Type	N8S SEALING	N8-LS LEVER
	Parts Name		
1.	Valve Body	CF8M	
2.	Valve Seat	CF8M Metal Seat / PTFE Soft Seat	
3.	Disc	SUS316	
3-1.	Soft Seal	Teflon (PTFE)	
4.	Spring	SUS304	
5.	Stem	SUS316	
Working Pressure		0.3~10 kgf/cm ² , 11~20 kgf/cm ² , 21~30 kgf/cm ² (CF8M metal seat) / 2~10 kgf/cm ² , 11~20 kgf/cm ² (PTFE soft seat)	
Working Temp.		-196°C ~ 290°C (CF8M Metal Seat) / -60°C ~ 196°C (PTFE Soft Seat)	
Working Fluid		Noncorrosive gas, Noncorrosive liquid, Corrosive gas, Corrosive liquid, Air, Steam, Water, Oil	Noncorrosive gas, Corrosive gas, Air, Steam

Blowout Capacity

Please refer the Blowout Capacity Table on next page.

Ordering Information

N8S / N8-LS	Code	Valve Seat		
↓	0	CF8M	P	CF8M + PTFE
		Code		Pressure Rating
	1A	0.3~2 kg/cm ² (CF8M metal seat)	3	11~20 kg/cm ² (CF8M metal seat)
	1B	2~10 kg/cm ² (CF8M metal seat)	4	11~20 kg/cm ² (PTFE soft seat)
	2	2~10 kg/cm ² (PTFE soft seat)	5	21~30 kg/cm ² (CF8M metal seat)
↓	↓	Code	Size	
			(A) ½"NPT (B) ¾"NPT (C) 1"NPT (D) 1¼"NPT (E) 1½"NPT (F) 2"NPT	
Complete Ordering Code				

Blowout Capacity Table

– Air

orifice set press.	Air Blowout Capacity (kg/h)					
	½" (15)	¾" (20)	1" (25)	1¼" (32)	1½" (40)	2" (50)
1 kgf/cm ²	85	85	85	255	255	255
2 kgf/cm ²	130	130	130	388	388	388
3 kgf/cm ²	175	175	175	521	521	521
4 kgf/cm ²	219	219	219	654	654	654
5 kgf/cm ²	264	264	264	788	788	788
6 kgf/cm ²	309	309	309	921	921	921
7 kgf/cm ²	353	353	353	1054	1054	1054
8 kgf/cm ²	398	398	398	1188	1188	1188
9 kgf/cm ²	443	443	443	1321	1321	1321
10 kgf/cm ²	487	487	487	1454	1454	1454
11 kgf/cm ²	532	532	532	1588	1588	1588
12 kgf/cm ²	577	577	577	1721	1721	1721
13 kgf/cm ²	622	622	622	1854	1854	1854
14 kgf/cm ²	666	666	666	1988	1988	1988
15 kgf/cm ²	711	711	711	2121	2121	2121
16 kgf/cm ²	756	756	756	2254	2254	2254
17 kgf/cm ²	800	800	800	2388	2388	2388
18 kgf/cm ²	845	845	845	2521	2521	2521
19 kgf/cm ²	890	890	890	2654	2654	2654
20 kgf/cm ²	934	934	934	2787	2787	2787

– Water

orifice set press.	Water Blowout Capacity (L/Min)					
	½" (15)	¾" (20)	1" (25)	1¼" (32)	1½" (40)	2" (50)
1 kgf/cm ²	24	24	24	70	70	70
2 kgf/cm ²	33	33	33	99	99	99
3 kgf/cm ²	41	41	41	122	122	122
4 kgf/cm ²	47	47	47	140	140	140
5 kgf/cm ²	53	53	53	157	157	157
6 kgf/cm ²	58	58	58	172	172	172
7 kgf/cm ²	62	62	62	186	186	186
8 kgf/cm ²	67	67	67	199	199	199
9 kgf/cm ²	71	71	71	211	211	211
10 kgf/cm ²	74	74	74	222	222	222
11 kgf/cm ²	78	78	78	233	233	233
12 kgf/cm ²	82	82	82	243	243	243
13 kgf/cm ²	85	85	85	253	253	253
14 kgf/cm ²	88	88	88	263	263	263
15 kgf/cm ²	91	91	91	272	272	272
16 kgf/cm ²	94	94	94	281	281	281
17 kgf/cm ²	97	97	97	290	290	290
18 kgf/cm ²	100	100	100	298	298	298
19 kgf/cm ²	103	103	103	306	306	306
20 kgf/cm ²	105	105	105	314	314	314

– Steam

orifice set press.	Steam Blowout Capacity (kg/h)					
	½" (15)	¾" (20)	1" (25)	1¼" (32)	1½" (40)	2" (50)
1 kgf/cm ²	53	53	53	157	157	157
2 kgf/cm ²	79	79	79	237	237	237
3 kgf/cm ²	106	106	106	316	316	316
4 kgf/cm ²	133	133	133	396	396	396
5 kgf/cm ²	159	159	159	475	475	475
6 kgf/cm ²	186	186	186	555	555	555
7 kgf/cm ²	213	213	213	635	635	635
8 kgf/cm ²	239	239	239	714	714	714
9 kgf/cm ²	266	266	266	794	794	794
10 kgf/cm ²	293	293	293	874	874	874
11 kgf/cm ²	319	319	319	953	953	953
12 kgf/cm ²	346	346	346	1033	1033	1033
13 kgf/cm ²	373	373	373	1112	1112	1112
14 kgf/cm ²	400	400	400	1192	1192	1192
15 kgf/cm ²	426	426	426	1272	1272	1272
16 kgf/cm ²	453	453	453	1351	1351	1351
17 kgf/cm ²	480	480	480	1431	1431	1431
18 kgf/cm ²	506	506	506	1510	1510	1510
19 kgf/cm ²	533	533	533	1590	1590	1590
20 kgf/cm ²	560	560	560	1670	1670	1670