

# 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/cm<sup>2</sup> (4.3~150 psig) (CF8M Metal Seat);

2~10 kgf/cm<sup>2</sup> (28~150 psig) (CF8M Metal Seat & PTFE Soft Seat are available);

11~20 kgf/cm<sup>2</sup> (156~285 psig) (CF8M Metal Seat & PTFE Soft Seat are available)

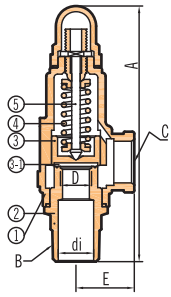
21~30 kgf/cm<sup>2</sup> (298~426 psig) (CF8M Metal Seat)

**Working Temperature:** -60°C~+196°C

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

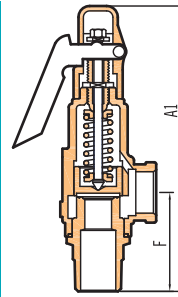


### Dimensions



**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 <sup>2</sup> , 11~20 kgf/cm <sup>2</sup> , 21~30 kgf/cm <sup>2</sup> (CF8M metal seat) / 2~10 kgf/cm <sup>2</sup> , 11~20 kgf/cm <sup>2</sup> (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 <sup>2</sup> (CF8M metal seat)	3	11~20 kg/cm <sup>2</sup> (CF8M metal seat)
	1B	2~10 kg/cm <sup>2</sup> (CF8M metal seat)	4	11~20 kg/cm <sup>2</sup> (PTFE soft seat)
	2	2~10 kg/cm <sup>2</sup> (PTFE soft seat)	5	21~30 kg/cm <sup>2</sup> (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 <sup>2</sup>	85	85	85	255	255	255
2 kgf/cm <sup>2</sup>	130	130	130	388	388	388
3 kgf/cm <sup>2</sup>	175	175	175	521	521	521
4 kgf/cm <sup>2</sup>	219	219	219	654	654	654
5 kgf/cm <sup>2</sup>	264	264	264	788	788	788
6 kgf/cm <sup>2</sup>	309	309	309	921	921	921
7 kgf/cm <sup>2</sup>	353	353	353	1054	1054	1054
8 kgf/cm <sup>2</sup>	398	398	398	1188	1188	1188
9 kgf/cm <sup>2</sup>	443	443	443	1321	1321	1321
10 kgf/cm <sup>2</sup>	487	487	487	1454	1454	1454
11 kgf/cm <sup>2</sup>	532	532	532	1588	1588	1588
12 kgf/cm <sup>2</sup>	577	577	577	1721	1721	1721
13 kgf/cm <sup>2</sup>	622	622	622	1854	1854	1854
14 kgf/cm <sup>2</sup>	666	666	666	1988	1988	1988
15 kgf/cm <sup>2</sup>	711	711	711	2121	2121	2121
16 kgf/cm <sup>2</sup>	756	756	756	2254	2254	2254
17 kgf/cm <sup>2</sup>	800	800	800	2388	2388	2388
18 kgf/cm <sup>2</sup>	845	845	845	2521	2521	2521
19 kgf/cm <sup>2</sup>	890	890	890	2654	2654	2654
20 kgf/cm <sup>2</sup>	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 <sup>2</sup>	24	24	24	70	70	70
2 kgf/cm <sup>2</sup>	33	33	33	99	99	99
3 kgf/cm <sup>2</sup>	41	41	41	122	122	122
4 kgf/cm <sup>2</sup>	47	47	47	140	140	140
5 kgf/cm <sup>2</sup>	53	53	53	157	157	157
6 kgf/cm <sup>2</sup>	58	58	58	172	172	172
7 kgf/cm <sup>2</sup>	62	62	62	186	186	186
8 kgf/cm <sup>2</sup>	67	67	67	199	199	199
9 kgf/cm <sup>2</sup>	71	71	71	211	211	211
10 kgf/cm <sup>2</sup>	74	74	74	222	222	222
11 kgf/cm <sup>2</sup>	78	78	78	233	233	233
12 kgf/cm <sup>2</sup>	82	82	82	243	243	243
13 kgf/cm <sup>2</sup>	85	85	85	253	253	253
14 kgf/cm <sup>2</sup>	88	88	88	263	263	263
15 kgf/cm <sup>2</sup>	91	91	91	272	272	272
16 kgf/cm <sup>2</sup>	94	94	94	281	281	281
17 kgf/cm <sup>2</sup>	97	97	97	290	290	290
18 kgf/cm <sup>2</sup>	100	100	100	298	298	298
19 kgf/cm <sup>2</sup>	103	103	103	306	306	306
20 kgf/cm <sup>2</sup>	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 <sup>2</sup>	53	53	53	157	157	157
2 kgf/cm <sup>2</sup>	79	79	79	237	237	237
3 kgf/cm <sup>2</sup>	106	106	106	316	316	316
4 kgf/cm <sup>2</sup>	133	133	133	396	396	396
5 kgf/cm <sup>2</sup>	159	159	159	475	475	475
6 kgf/cm <sup>2</sup>	186	186	186	555	555	555
7 kgf/cm <sup>2</sup>	213	213	213	635	635	635
8 kgf/cm <sup>2</sup>	239	239	239	714	714	714
9 kgf/cm <sup>2</sup>	266	266	266	794	794	794
10 kgf/cm <sup>2</sup>	293	293	293	874	874	874
11 kgf/cm <sup>2</sup>	319	319	319	953	953	953
12 kgf/cm <sup>2</sup>	346	346	346	1033	1033	1033
13 kgf/cm <sup>2</sup>	373	373	373	1112	1112	1112
14 kgf/cm <sup>2</sup>	400	400	400	1192	1192	1192
15 kgf/cm <sup>2</sup>	426	426	426	1272	1272	1272
16 kgf/cm <sup>2</sup>	453	453	453	1351	1351	1351
17 kgf/cm <sup>2</sup>	480	480	480	1431	1431	1431
18 kgf/cm <sup>2</sup>	506	506	506	1510	1510	1510
19 kgf/cm <sup>2</sup>	533	533	533	1590	1590	1590
20 kgf/cm <sup>2</sup>	560	560	560	1670	1670	1670