

STAINLESS STEEL SAFETY VALVES

AN9S / AN9-LS

Technical Data

Low Lift Safety Valves

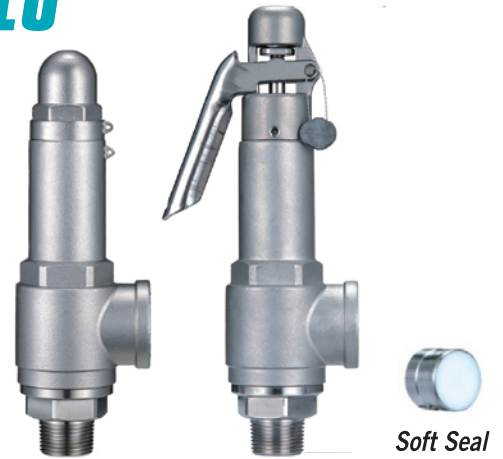
Material: Body- CF8; Valve Seat- CF8 Metal Seat, PTFE Soft Seat available

Orifice Size: ¼" (8mm), ⅜" (10mm), ½" (15mm), ¾" (20mm), 1" (25mm), 1¼" (32mm), 1½" (40mm)

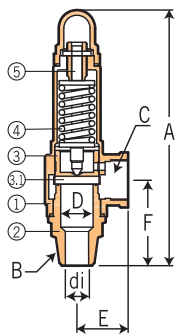
Working Pressure: 0.3~10 kgf/cm² (4.3~150 psig) (CF8 Metal Seat);
2~10 kgf/cm² (30~150 psig) (CF8 Metal Seat & PTFE Soft Seat are available);
11~20 kgf/cm² (156~285 psig) (CF8 Metal Seat & PTFE Soft Seat are available)

Working Temperature: -60°C~+196°C

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

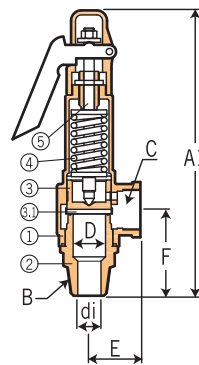


Dimensions-mm



AN9S Type Sealing ¼"~2"

SEALING SERIES								
SIZE	¼"	⅜"	½"	¾"	1"	1¼"	1½"	2"
ITEM	X ½"	X ½"	X ¾"	X 1"	X 1¼"	X 1½"	X 2"	
A	140	140	164	200	232	256	282	
Inlet B	¼"	⅜"	½"	¾"	1"	1¼"	1½"	
Outlet C	½"	½"	¾"	1"	1¼"	1½"	2"	
Inlet Orifice di	8	10	13	19	25	32	38	
Valve Seat Orifice D	13	13	19	25	32	38	50	
E	29	29	36	40	50	54	66	
F	47	47	55	67	79	86	96	
Lift	0.52	0.52	0.76	1.00	1.28	1.52	2	
Wt. Kg	0.5	0.5	0.7	1.2	1.9	2.6	4.3	



AN9-LS Type Lever ¼"~2"

LEVER SERIES								
SIZE	¼"	⅜"	½"	¾"	1"	1¼"	1½"	2"
ITEM	X ½"	X ½"	X ¾"	X 1"	X 1¼"	X 1½"	X 2"	
A1	166	166	190	222	248	272	306	
Wt. Kg	0.6	0.6	0.8	1.3	2.0	2.7	4.5	

General Material List

NO.	Type	AN9S SEALING	AN9-LS LEVER
	Parts Name		
1.	Valve Body	CF8	
2.	Valve Seat	CF8 Metal Seat / PTFE Soft Seat	
3.	Disc	SUS304	
3-1.	Soft Seal	Teflon (PTFE)	
4.	Spring	SUS304	
5.	Stem	SUS304	
Working Pressure		0.3~10 kgf/cm ² , 11~20 kgf/cm ² (CF8 Metal Seat) / 2~10 kgf/cm ² , 11~20 kgf/cm ² (PTFE Soft Seat)	
Working Temp.		-196°C~290°C (CF8 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 to the Blowout Capacity Table on the next page.

Ordering Information

AN9S/AN9-LS	Code	Valve Seat	
↓	O	CF8	P CF8 + PTFE
		Code Pressure Rating	
	1A	0.3~2 kg/cm ² (CF8 metal seat)	2 2~10 kg/cm ² (PTFE soft seat)
		1B 2~10 kg/cm ² (CF8 metal seat)	3 11~20 kg/cm ² (CF8 & PTFE seat available)
	Code Size [Male inlet x Female outlet]		
		(A) ¼" x ½" (B) ⅜" x ½" (C) ½" x ¾" (D) ¾" x 1" (E) 1" x 1¼" (F) 1¼" x 1½" (G) 1½" x 2"	
Complete Ordering Code			

Blowout Capacity Table

– Air

orifice set press.	Air Blowout Capacity (kg/h)						
	¼" (8)	⅜" (10)	½" (15)	¾" (20)	1" (25)	1¼" (32)	1½" (40)
1 kgf/cm ²	30	30	30	64	110	180	255
2 kgf/cm ²	45	45	45	97	168	275	388
3 kgf/cm ²	61	67	67	130	226	370	521
4 kgf/cm ²	77	77	77	164	283	464	654
5 kgf/cm ²	92	92	92	197	341	559	788
6 kgf/cm ²	108	108	108	230	399	653	921
7 kgf/cm ²	123	123	123	264	456	748	1054
8 kgf/cm ²	139	139	139	297	514	842	1188
9 kgf/cm ²	155	155	155	330	572	937	1321
10 kgf/cm ²	170	170	170	364	629	1031	1454
11 kgf/cm ²	186	186	186	397	687	1126	1588
12 kgf/cm ²	201	201	201	430	745	1220	1721
13 kgf/cm ²	217	217	217	464	803	1315	1854
14 kgf/cm ²	233	233	233	497	860	1409	1988
15 kgf/cm ²	248	248	248	530	918	1504	2121
16 kgf/cm ²	264	264	264	564	976	1599	2254
17 kgf/cm ²	279	279	279	597	1033	1693	2388
18 kgf/cm ²	295	295	295	630	1091	1788	2521
19 kgf/cm ²	311	311	311	664	1149	1882	2654
20 kgf/cm ²	326	326	326	697	1206	1977	2787

– Water

orifice set press.	Water Blowout Capacity (L/Min)						
	¼" (8)	⅜" (10)	½" (15)	¾" (20)	1" (25)	1¼" (32)	1½" (40)
1 kgf/cm ²	8.2	8.2	8.2	17.6	30.4	49.8	70.2
2 kgf/cm ²	11.6	11.6	11.6	24.8	43.0	70.4	99.3
3 kgf/cm ²	14.2	14.2	14.2	30.4	52.6	86.3	121.6
4 kgf/cm ²	16.4	16.4	16.4	35.1	60.8	99.6	140.5
5 kgf/cm ²	18.4	18.4	18.4	39.3	68.0	111.4	157.0
6 kgf/cm ²	20.1	20.1	20.1	43.0	74.5	122.0	172.0
7 kgf/cm ²	21.7	21.7	21.7	46.5	80.4	131.8	185.8
8 kgf/cm ²	23.2	23.2	23.2	49.7	86.0	140.9	198.6
9 kgf/cm ²	24.7	24.7	24.7	52.7	91.2	149.4	210.7
10 kgf/cm ²	26.0	26.0	26.0	55.5	96.1	157.5	222.1
11 kgf/cm ²	27.3	27.3	27.3	58.2	100.8	165.2	232.9
12 kgf/cm ²	28.5	28.5	28.5	60.8	105.3	172.5	243.3
13 kgf/cm ²	29.6	29.6	29.6	63.3	109.6	179.6	253.2
14 kgf/cm ²	30.8	30.8	30.8	65.7	113.7	186.3	262.8
15 kgf/cm ²	31.8	31.8	31.8	68.0	117.7	192.9	272.0
16 kgf/cm ²	32.9	32.9	32.9	70.2	121.6	199.2	280.9
17 kgf/cm ²	33.9	33.9	33.9	72.4	125.3	205.3	289.6
18 kgf/cm ²	34.9	34.9	34.9	74.5	129.0	211.3	297.9
19 kgf/cm ²	35.8	35.8	35.8	76.5	132.5	217.1	306.1
20 kgf/cm ²	36.8	36.8	36.8	78.5	135.9	222.7	314.1

– Steam

orifice set press.	Steam Blowout Capacity (kg/h)						
	¼" (8)	⅜" (10)	½" (15)	¾" (20)	1" (25)	1¼" (32)	1½" (40)
1 kgf/cm ²	18.4	18.4	18.4	39.2	67.90	111.3	156.9
2 kgf/cm ²	27.7	27.7	27.7	59.1	102.4	167.7	236.6
3 kgf/cm ²	37.0	37.0	37.0	79.0	136.9	224.2	316.2
4 kgf/cm ²	46.3	46.3	46.3	98.9	171.3	280.7	395.8
5 kgf/cm ²	55.7	55.7	55.7	118.8	205.8	337.1	475.4
6 kgf/cm ²	65.0	65.0	65.0	138.7	240.2	393.6	555.0
7 kgf/cm ²	74.3	74.3	74.3	158.7	274.7	450.1	634.7
8 kgf/cm ²	83.6	83.6	83.6	178.6	309.2	506.5	714.3
9 kgf/cm ²	92.9	92.9	92.9	198.5	343.6	563.0	793.9
10 kgf/cm ²	102.3	102.3	102.3	218.4	378.1	619.5	893.5
11 kgf/cm ²	111.6	111.6	111.6	238.3	412.5	675.9	953.2
12 kgf/cm ²	120.9	120.9	120.9	258.2	447.0	732.4	1033
13 kgf/cm ²	130.2	130.2	130.2	278.1	481.5	788.8	1112
14 kgf/cm ²	139.5	139.5	139.5	298.0	515.9	845.3	1192
15 kgf/cm ²	148.9	148.9	148.9	317.9	550.4	901.8	1272
16 kgf/cm ²	158.2	158.2	158.2	337.8	584.9	958.3	1351
17 kgf/cm ²	167.5	167.5	167.5	357.7	619.3	1014.7	1431
18 kgf/cm ²	176.8	176.8	176.8	377.6	653.8	1071.2	1511
19 kgf/cm ²	186.1	186.1	186.1	397.5	688.2	1127.6	1590
20 kgf/cm ²	195.4	195.4	195.4	417.4	722.7	1184.1	1670