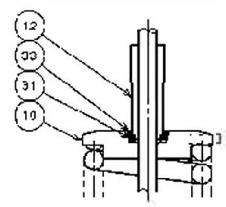
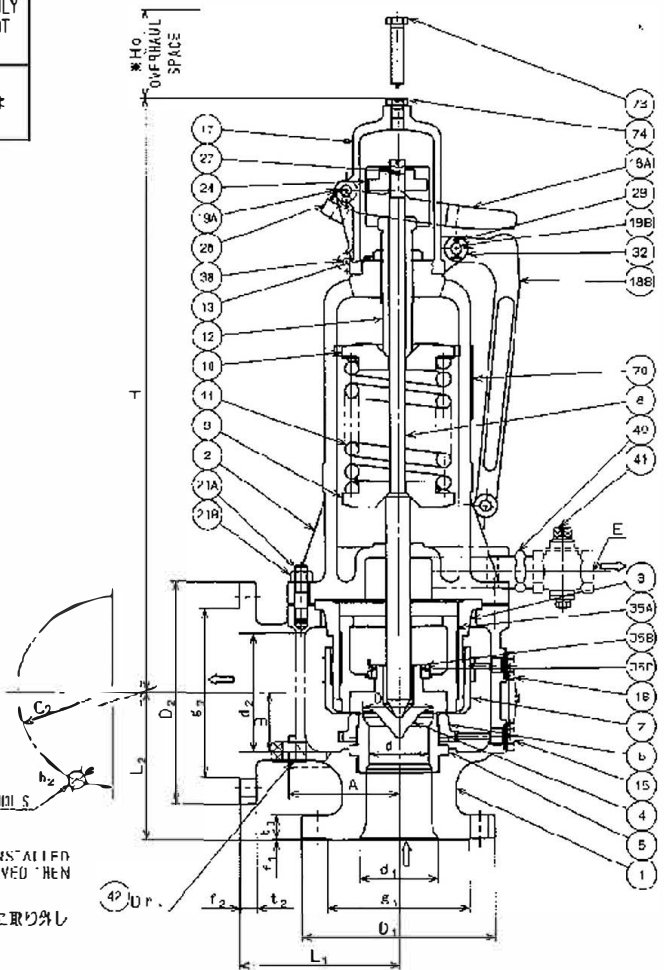


※ OVERHAUL SPACE FOR DISASSEMBLY LIKE USING CHAIN BLOCK IS NOT INCLUDED IN THIS DIMENSION.

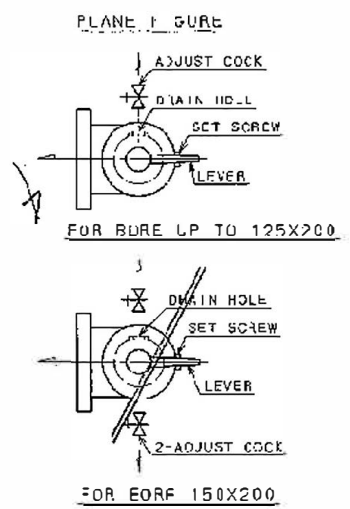
※ 分解寸法に基準時・標準作業（チェーンブロック取付等）に必要寸法は含まれていません。



SPRING PLATE  
 WITH BEARING  
 WITHOUT BEARING (SEE RIGHT)



■ WHEN THE SAFETY VALVE IS INSTALLED DRAIN PLUG (42) SHALL BE REMOVED WHEN CONNECTED TO A PIPING.  
 ■ (42) ドレンプラグは安全弁取付時に取り外しドレン配管を施すしてください。



WHEN THE SAFETY VALVE OPENS, HOT STEAM SPURTS OUT FROM ADJUSTING COCK (42), AT SO.  
 安全弁作動時は調整コックから高温の蒸気が噴出します。

NOTE  
 1) SPRING MATERIAL  
 SWOSC-B  
 SJP10

PARTS No.	d <sub>1</sub> = 65 ~ 100	d <sub>1</sub> = 125, 150
2)	SUS304H10/50	SUS316H10/50
PARTS No.	d <sub>1</sub> = 65, 75	d <sub>1</sub> = 90 ~ 150
3)	SUS304	16Cr-2NiCASTING
4)	21A, 21B	3
PARTS No.	TO 350C, INC. OVER 350C	
5)	15, 1A	SS400
PARTS No.	d <sub>1</sub> = 65 ~ 125	d <sub>1</sub> = 150
6)	40, 41	1, 2
PARTS No.	Rc	NPT
7)	42	SS400
		SWCH

PARTS No.	PARTS NAME	MATERIAL	Q'TY	REMARKS
1	BODY	SCPH2 SA216M WCB	1	
2	YOKE	SA216M WCB	1	
3	DISC GUIDE	16Cr-2NiCAST	1	HRC33~40
4	DISC	NOTE 2	1	
5	SEMI NOZZLE	S25C	1	STELLITED EQ.
6	ADJUSTING RING	NOTE 3	1	
7	ADJUSTING RING	SCS1	1	
8	SPINDLE	SUS403	1	STELLITED EQ.
9	SPR. NC PLATE	FC200	1	
10	SPR. NC PLATE	FC200	1	
11	SPR. NC	NOTE 1	1	
12	ADJUSTING BOLT	C3604BE	1	
13	ADJ. BOLT LOCK NUT	C3604BE	1	
15	SET SCREW	NOTE 5	1	
16	SET SCREW	NOTE 5	1	
17	CAP	FC200	1	
18A	LEVER	FC400	1	
18B	HANDLE	FC400	1	
19A	LEVER PIN	SUS403	1	
19B	HANDLE PIN	SUS403	1	
21A	YOKE BOLT	SHB7	NO-T4	
21B	YOKE MIT	S45C	NO-T4	
24	RELEASE NUT	SS400	1	
27	RELEASE NUT PIN	SWRM	1	
28	PADLOCK & KEY	DRA55	1	
29	SPLIT PIN	SWRM	2	
31	BEARING	SLJ2	1	
32	HANDLE PIN WASHER	SS400	2	
33	BEARING PLATE	SS400	1	
35A	DISC HOLDER	NOTE 3	1	
35B	DISC RETAINER	SUS303	1	
35C	RETAINER LOCK CLIP	SUS304	1	
3A	CAP BOLT	SS400	2	
40	NIPPLE	FCMB340	NOTE 6	
41	ADJUSTING COCK	CAC206	NOTE 8	
42	DRAIN PLUG	NOTE 7	1	
70	NAME PLATE	SUS304	1	
73	TEST GAG	SS400	1	
74	TEST GAG PLUG	SS400	1	

REFERENCE DRAWINGS

00001446-01-F01

TAC NO.	d	D	BORF	INLET FLANGE (CLASS 300)	OUTLET FLANGE (CLASS 150)	L <sub>1</sub>	L <sub>2</sub>	T	H <sub>0</sub>	E	Rc	R/NPT	A	B	HT	MSGS															
49	61	65	100	3"	2 1/4"	168	312	27	2	8	M20	22	4"	2 3/8"	130	515	123	2	8	M16	19	179	144	69	400	1	1/2	98	50	12.3	76
57	71	75	125	3 1/2"	2 3/8"	184	338	29	2	8	M20	22	5"	2 5/8"	145	515	123	2	8	M20	22	179	166	67	430	1	1/2	115	62	14.3	90
69	81	90	150	4"	2 5/8"	200	372	31	2	8	M20	22	6"	2 6/8"	141	321.5	124	2	8	M20	22	201	182	61	510	1	1/4	125	75	17.3	135
76	91	100	150	5"	2 5/8"	200	372	34	2	8	M20	22	6"	2 8/8"	141	321.5	124	2	8	M20	22	201	190	80	510	1	1/4	139	75	18	140
95	110	125	200	6"	2 5/8"	200	372	35	2	12	M20	22	6"	3 4/8"	138	376.9	127	2	8	M20	22	243	227	96	750	1	1/2	171	100	23.8	240
115	136	150	200	8"	2 5/8"	200	372	34	2	12	M20	22	6"	4 4/8"	138	376.9	127	2	8	M20	22	273	242	111	750	1	1/2	193	110	28.8	250

Rev.	REVISIONS	BY/DATE	CHKD/DATE	APPD/DATE	TYPE MS	SCALE	NON MASS
					255FV		
BY/DATE	CHKD/DATE	APPD/DATE	TYPE MS		255FV	SCALE NON MASS	
Y. SAGA MAY. 22'19	K. SASADA MAY. 24'19	T. CHIKADA MAY. 27'19	FULL BORE SAFETY VALVE				
NAKAKITA SEISAKUSHO CO., LTD.					ENG. No.	AFFYA174BBE	
					Rev.	0	

AFFYA174BBE3 (20K)

**SPECIFICATION SHEET & CAPACITY CONVERSIONS OF PRESSURE RELIEF VALVE**

										Rev.		
Specification												
1	Application or service				Fluid/State				SUPERHEATED STEAM / Steam			
2	Tag No.				M.W. or S.G./Viscosity				18.02 /			
3					Capacity		Required		kg/h		64500	
4	Quantity				1		Discharge				72704	
5	Types (Design/Bonnet)				Conventional / Open		Nor. Temp. (Min./Max.)		°C		-- / --	
6	Type of NS (Model No.)				NS255FY		Design. Temp. (Min./Max.)				-- / 370	
7	Nominal size (In×Out)				5" X 8"		Relieving Temp.				305	
8	Connection		Inlet		ASME 300#RF		Nor. Press. (Min./Max.)				-- / --	
9			Outlet		ASME 150#RF		Design. Press. (Min./Max.)				-- / --	
10	Orifice				--		Set Press./Overpress.				20 / %	
11	Throat Dia./Seat Dia.		mm		95 / 116		Relieving Press.				24.2	
12	Lift				23.8		Blowdown/Closing Press.				2 / 18	
13	Material				Back		Super imposed				0	
14	Body/Bonnet or Yoke				SA216M WCB / SA216M WCB		Press.		Built-up		0	
15	Disc/Nozzle				S25C / S25C				Total		0	
16	Spring/Bellows				SUP10 / --		Cold Differential Test Press.				20	
17	Seat Facing				Stellited eq.		Hydrostatic		Inlet		30	
18	Lifting Lever				Yes		Test Press.		Outlet		--	
19	Code-Standard				ASME SEC XIII		Pneumatic		Inlet		--	
20					API STD 520		Test Press.		Outlet		--	
21	Set Press. Tolerance				% + 3 ~ - 3				Bellows		--	
22	Drawing No.				図面番号		Seat Tightness Test Press.				18	
Remarks												
23												
24												
25												
26												
Spare · Tools · Accessories · Options												
27	Spare			Tools			Accessories			Options		
28				Test Gag			1					
29												
30												
31												
32												
33												
34												
35												
36												
37												
Capacity conversions												
38	Actual discharge area				A	mm <sup>2</sup>	7088.2		<i>ASME sec.XIII for Steam</i>  $Q_m = 0.5148K_{sh}K_dApK_N$			
39	Relieving pressure				p	kgf/cm <sup>2</sup> A	25.2					
40	Superheat correction factor				K <sub>sh</sub>	-	0.913					
41	(For saturated steam : 1)											
42	coefficient of discharge				K <sub>d</sub>	-	0.866					
43	Correction factor for the				K <sub>N</sub>	-	1					
44	Napier equation											
45	Relieving temperature				T	°C	305					
46	Required Capacity				W <sub>1</sub>	kg/h	64500					
47	Certified Capacity				Q <sub>m</sub>		72704					
48												
49												
50												
51												
52												
53												
54												