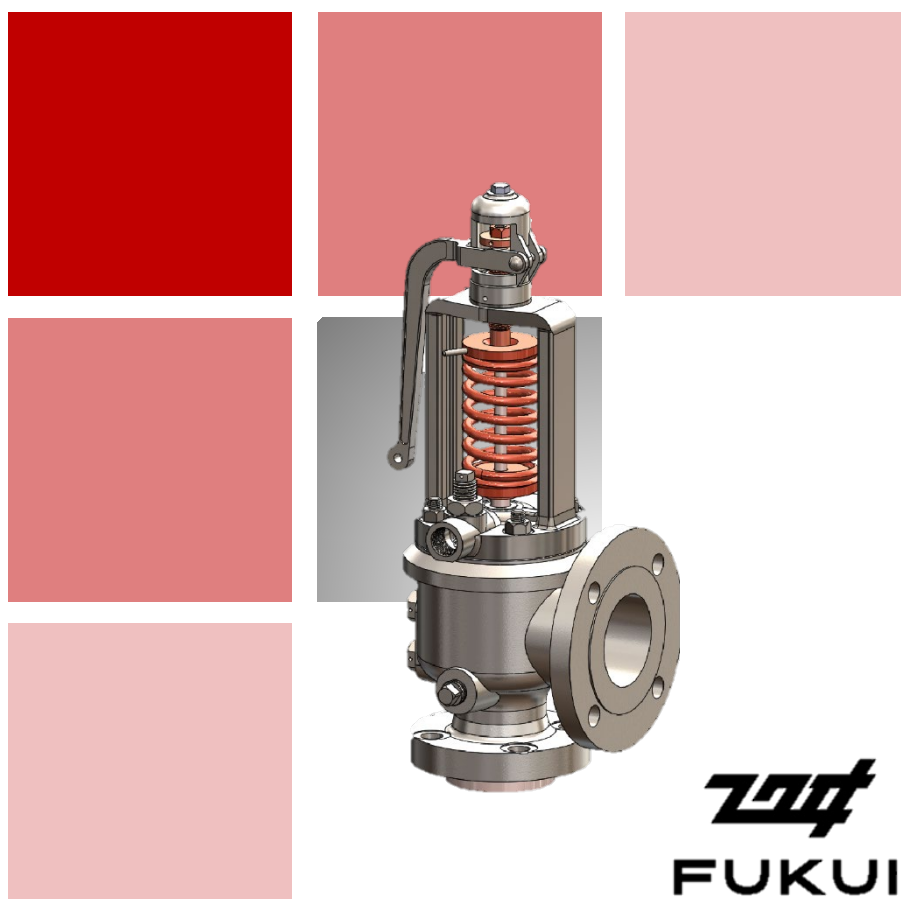




SL100-300, SJ100-300 Series

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◆ Features

The SL100–300, SJ100–300 series is a long-selling spring-loaded pressure relief valve for steam, which has been manufactured and improved by FUKUI SEISAKUSHO for nearly half a century. It has a structure and durability designed to meet the severe operating conditions of power generation boilers etc.

◆ Certification

Certification	Range			
	Service	Size	Pressure range	Discharge coefficient
			MPa	
ASME BPVC SECTION I & SECTION VIII Division 1	Steam	D–M N–P Q–R T	0.1–37.9 0.1–24.1 0.1–10.3 0.1– 5.5	0.869

* In addition to the above-mentioned pressure and size, the ASME V STAMP and ASME UV STAMP also specify minimum requirements for temperature, structure, materials, etc. If all of these requirements are satisfied, the product can be certified as ASME V STAMP or ASME UV STAMP.

* We have also obtained certifications from classification societies such as NK, LR, BV, DNV, ABS, KR, RS, CCS, and RINA. For more information, contact us.

* This table shows the values for the SL series. For the manufacturing range of SL100–300 and SJ100–300, refer to the pressure-temperature rating. There are cases where products exceeding this pressure-temperature rating can also be manufactured.

 Type code

SL	4	6	1-	3	C3	-H1	(T)				
							Cap code				
							(C)	Open lever	(T)	(C) + Test gag	
							Structure code				
							Code	Pressure class	Disc structure	Nozzle airtightness performance	
							Blank	1-3	Feather disc	90% or less of set pressure	
							M	4-6	Feather disc	94% or less of set pressure	
							-M2		Thermal disc		
							-H1	7-10	Reinforced thermal disc	95% or less of set pressure	
							-H2	7, 8	Thermal disc	93% or less of set pressure	
							-PA	1-10	Air-assist type	98% or less of set pressure	
							Material code				
							Blank	SCPH2 or SA216M-WCB	C4	SCPH61 or SA217M-C5	
							C2	SCPH21 or SA217M-WC6	CA	火 SPCH91 or SA217M-C12A	
							C3	SCPH32 or SA217M-WC9	—	—	
							Inlet flange class (only when different) Same code as pressure class				
							Connection code				
							1-	ASME Flange		5-	Special
							2-	JPI Flange		6-	Screwing
							3-	Welding		9-	JIS B 8210(1994) Flange
							4-	JIS Flange		0-	JIS B 8210(1986) Flange
							Temperature class code (determined by discharge temperature)				Unit: °C (F)
							3	T ≤ 400(752)		6	510(950) < T ≤ 571(1060)
							5	400(752) < T ≤ 510(950)		7	571(1060) < T ≤ 621(1150)
							Pressure class code				
							1	Class 150 or JIS 10K or JIS B 8210 10K		6	Class 1500
							2	Class 300 or JIS 20K or JIS B 8210 20K		7	Class 2500
							3	Class 300 or JIS 30K or JIS B 8210 30K		8	Class 2500 Welding connection only
							4	Class 600		9	Class 3000 Welding connection only
							5	Class 900		10	Class 4500 Welding connection only
							Type code				
SL	Type for other than JIS B8210 flange			SJ	Type for JIS B8210 flange						

Cap Code

The following two types of structures, each of which is with or without a test gag, are available as the cap structure. The test gag is an option for performing an airtight test with the pressure relief valve installed on piping etc.

Cap		Figure	Airtightness	Lever	Test gag
(C)	Open lever	1	X	○	X
(T)		2	X	○	○
(D)	Sealed lever	3	○	○	X
(E)		4	○	○	○

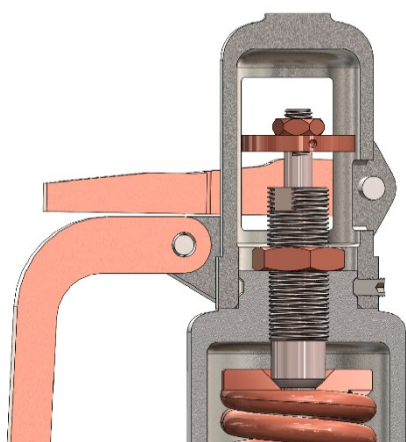


Figure 1 Open lever

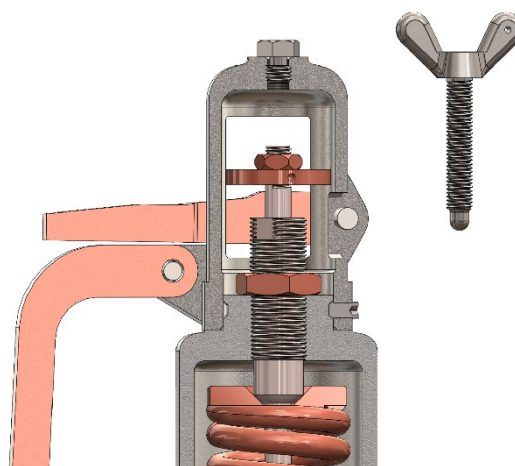


Figure 2 Open lever + Test gag

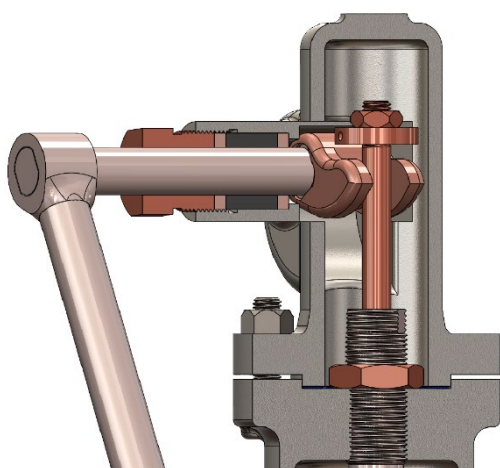


Figure 3 Sealed lever

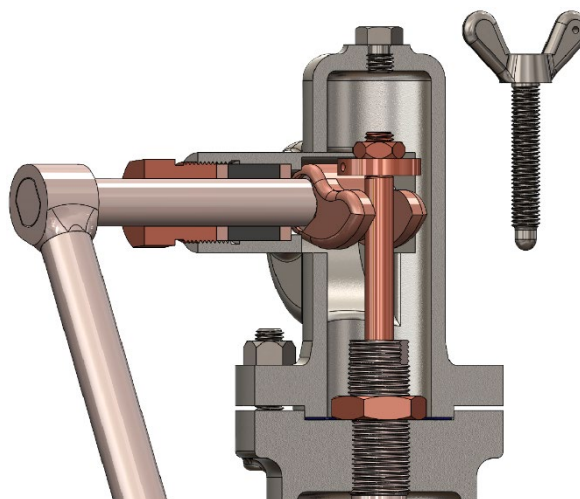


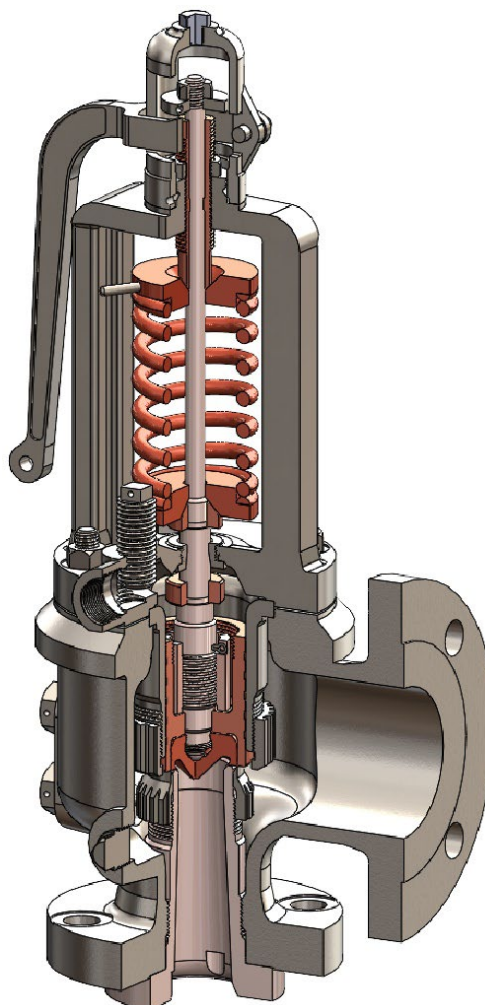
Figure 4 Sealed lever + Test gag

The lever is lifted to activate the pressure relief valve when the pressure on the inlet side of the pressure relief valve is 75% of the set pressure.

◆ Structure

The optimal structure is adopted for each required performance and pressure classification.

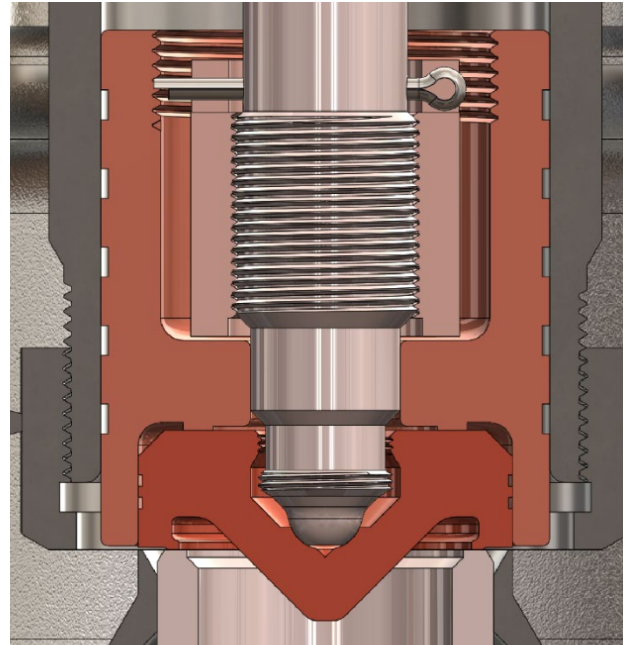
- ◆ Full nozzle
- ◆ Yoke type
- ◆ Cast integral body
- ◆ Upper and lower adjusting rings
- ◆ Backpressure adjusting needle

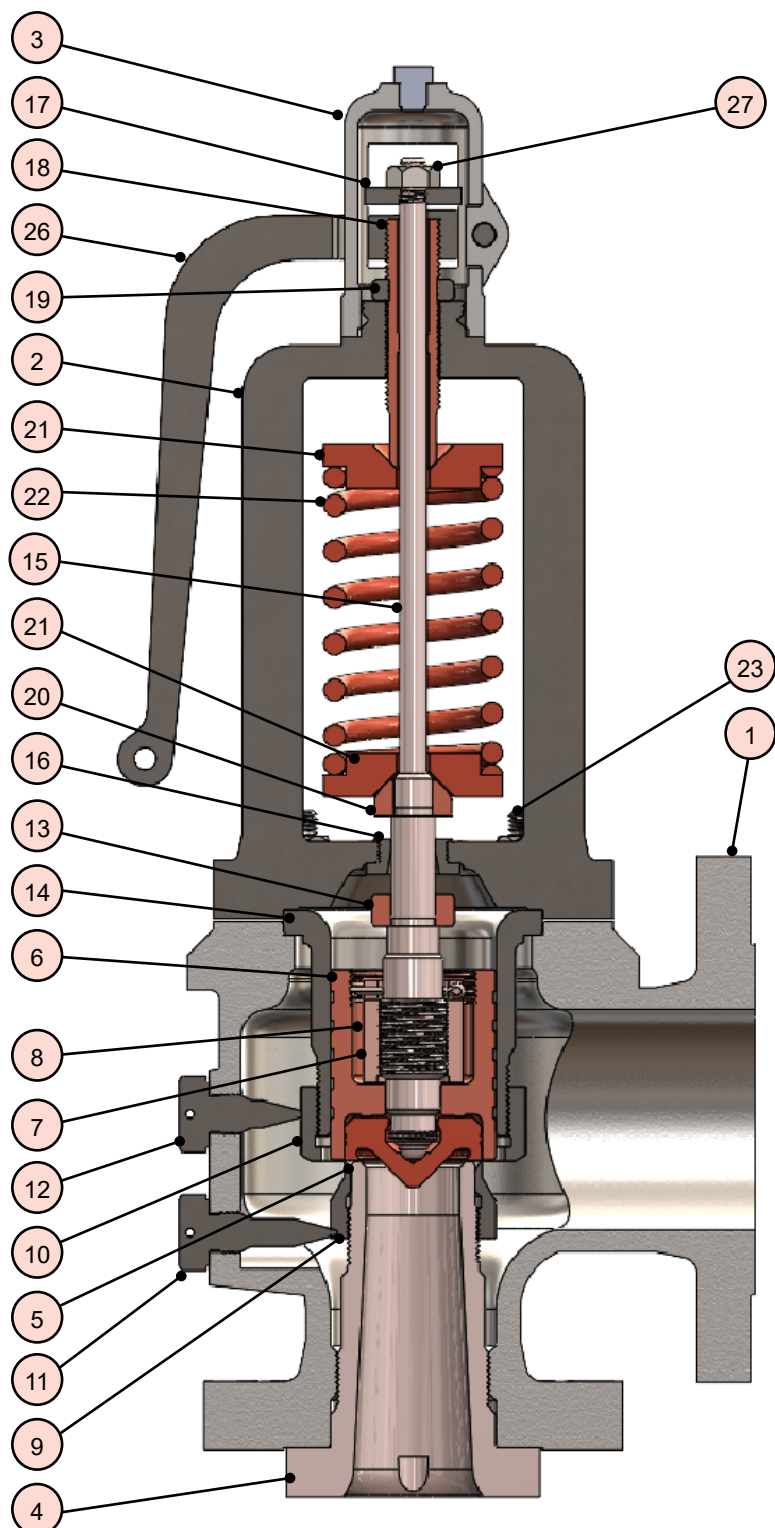


◆ Main Section Structure

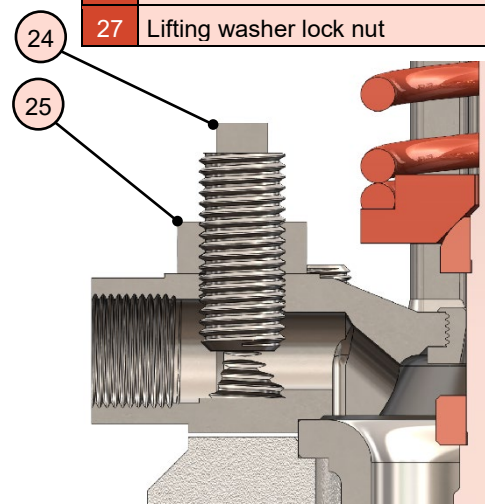
The trim of the SL (standard) series adopts a feather disc seat structure optimized for steam. SUS630 used at temperatures of 320°C or less and B637-N07750 or B637-N07718 used for higher temperatures are adopted as materials.

- ◆ Feather disc & Flexible holder
In order to make it possible to stably maintain the nozzle airtightness performance, a trim structure that minimizes the effect of holder tilt is adopted.





No.	Part name
1	Body
2	Yoke
3	Cap
4	Nozzle
5	Disc
6	Disc holder
7	Disc collar
8	Pin
9	Lower adjusting ring
10	Upper adjusting ring
11	Lower adjusting ring lock bolt
12	Upper adjusting ring lock bolt
13	Lift stopper
14	Guide
15	Spindle
16	Spindle guide
17	Lifting washer
18	Adjusting screw
19	Adjusting screw lock nut
20	Step ring
21	Spring retainer
22	Spring
23	Stud bolt, nut
24	Backpressure adjusting needle
25	Backpressure adjusting needle lock nut
26	Lever
27	Lifting washer lock nut



* This shows a general structure. The structure may vary depending on the size.

◆ Standard Material

Standard material by temperature

No.	Application temperature range °C	≤400°C	≤510°C	≤571°C	≤621°C
	Temperature class code	3	5	6	7
1	Body	SCPH2 or SA216M-WCB	SCPH21 or SA217M-WC6	SCPH32 or SA217M-WC9	火 SCPH91 or SA217M-C12A
2	Yoke	SCPH2 or SA216M-WCB	SCPH21 or SA217M-WC6		SCPH32 or SA217M-WC9
3	Cap	FCD450-10			
4	Nozzle	SA105M	SA182M-F12	SA182M-F22	SA182M-F91
5	Disc	SUS630 (≤320°C), B637-N07750 (≤510°C)		B637-N07750	B637-N07718
6	Disc holder	SUS420J2			
7	Disc collar	SUS630			
8	Pin	SUS304			
9	Lower adjusting ring	SUS304 or SCS13A			
10	Upper adjusting ring	SUS304 or SCS13A			
11	Lower adjusting ring lock bolt	SUS403	SUS431		B637-N07750
12	Upper adjusting ring lock bolt	SUS403	SUS431		
13	Lift stopper	SUS420J2			
14	Guide	SUS420J2 or SCS1			
15	Spindle	SUS403	SUS431		
16	Spindle guide	SUS630			
17	Lifting washer	SS400			
18	Adjusting screw	SUS420J2			
19	Adjusting screw lock nut	SUS304			
20	Step ring	SUS420J2			
21	Spring retainer	SUS403			
22	Spring	Spring Steel			
23	Stud bolt, nut	SNB7, S45C		SNB16, A194-4	
24	Backpressure adjusting needle	SUS304			
25	Backpressure adjusting needle lock nut	SS400			
26	Lever	FCMB310-8			

Actual Area

For the orifice, the minimum passage area of the pressure relief valve is indicated with letters D to T.

SL100–300

Orifice	Throat diameter mm	Nominal lift mm	Throat area mm ²
D	10.0	2.5	78.5
E	13.3	3.4	138.9
F	16.6	4.2	216.4
G	21.2	5.3	353.0
H	26.6	6.7	555.7
J	34.0	8.5	907.9
K	40.6	10.2	1294.6
L	50.6	12.7	2010.9
M	56.8	14.2	2533.9
N	62.4	15.6	3058.1
P	75.7	19.0	4500.7
Q	99.6	24.9	7791.3
R	119.8	30.0	11272.0
RR	127.1	31.8	12687.6
T	153.0	38.3	18385.4

SJ100–300

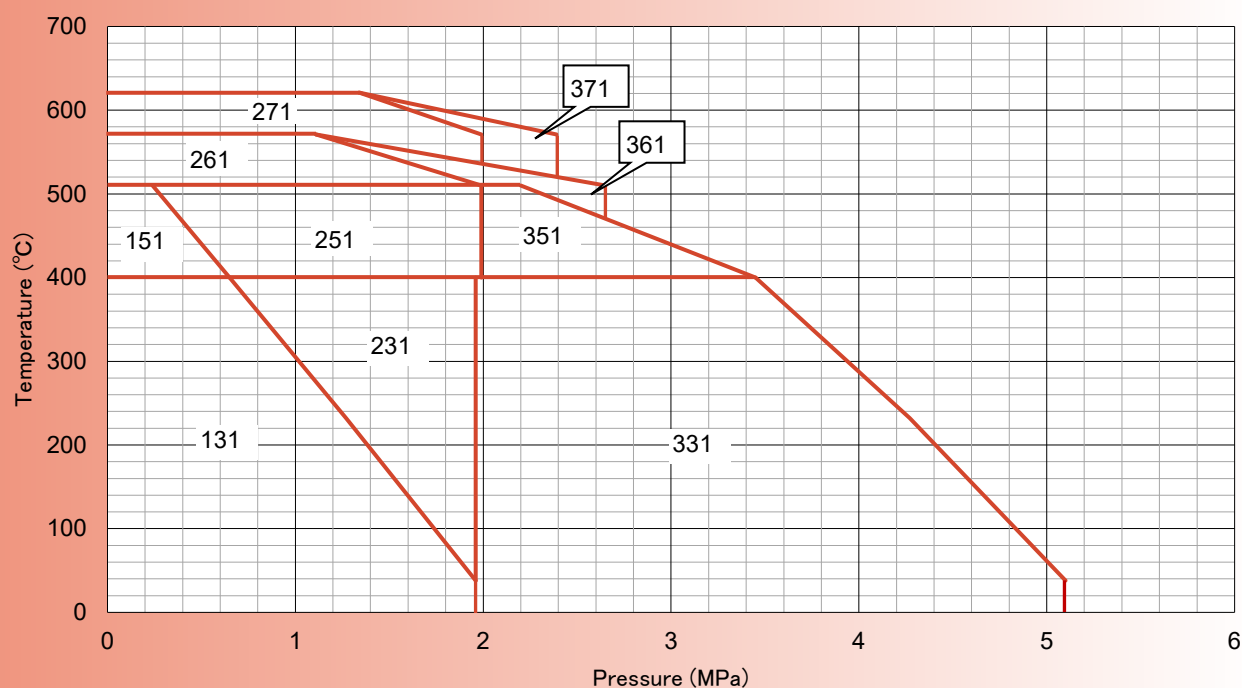
Orifice	Throat diameter mm	Nominal lift mm	Throat area mm ²
F2	19.0	4.8	283.5
G2	24.0	6.0	452.4
H2	30.0	7.5	706.8
J2	38.0	9.5	1134.1
L1	49.0	12.3	1885.7
M	56.8	14.2	2533.9
N3	69.0	17.3	3739.3
P2	76.2	19.1	4560.4
Q2	88.0	22.0	6082.1
Q3	95.8	24.0	7208.1
R	115.0	28.8	10386.9
T	153.0	38.3	18385.4

Pressure-temperature Rating

Pressure-temperature Rating SL100–300 ASME Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	232	400	510	571	621
		Inlet	Outlet	*1 *2	3		5	6	7	
SCPH2 SA216M-WCB	D, E, F G, H, J K, L, M N	150	150	1	1.96	1.27	0.65	—	—	—
		(300)		2	1.96	1.96	1.96	—	—	—
		300		3	5.10	4.27	3.45	—	—	—
SCPH21 SA217M-WC6		150	150	1	1.99	1.27	0.65	0.24	—	—
		(300)		2	1.99	1.99	1.99	1.99	—	—
		300		3	5.17	4.68	3.64	2.20	—	—
SCPH32 SA217M-WC9		150	150	1	1.99	1.27	0.65	0.24	—	—
		(300)		2	1.99	1.99	1.99	1.99	1.11	—
		300		3	5.17	4.72	3.64	2.65	1.11	—
火 SCPH91 SA217M-C12A		150	150	1	1.99	1.27	0.65	0.24	—	—
		(300)		2	1.99	1.99	1.99	1.99	1.99	1.34
		300		3	5.17	4.72	3.64	2.65	2.39	1.34

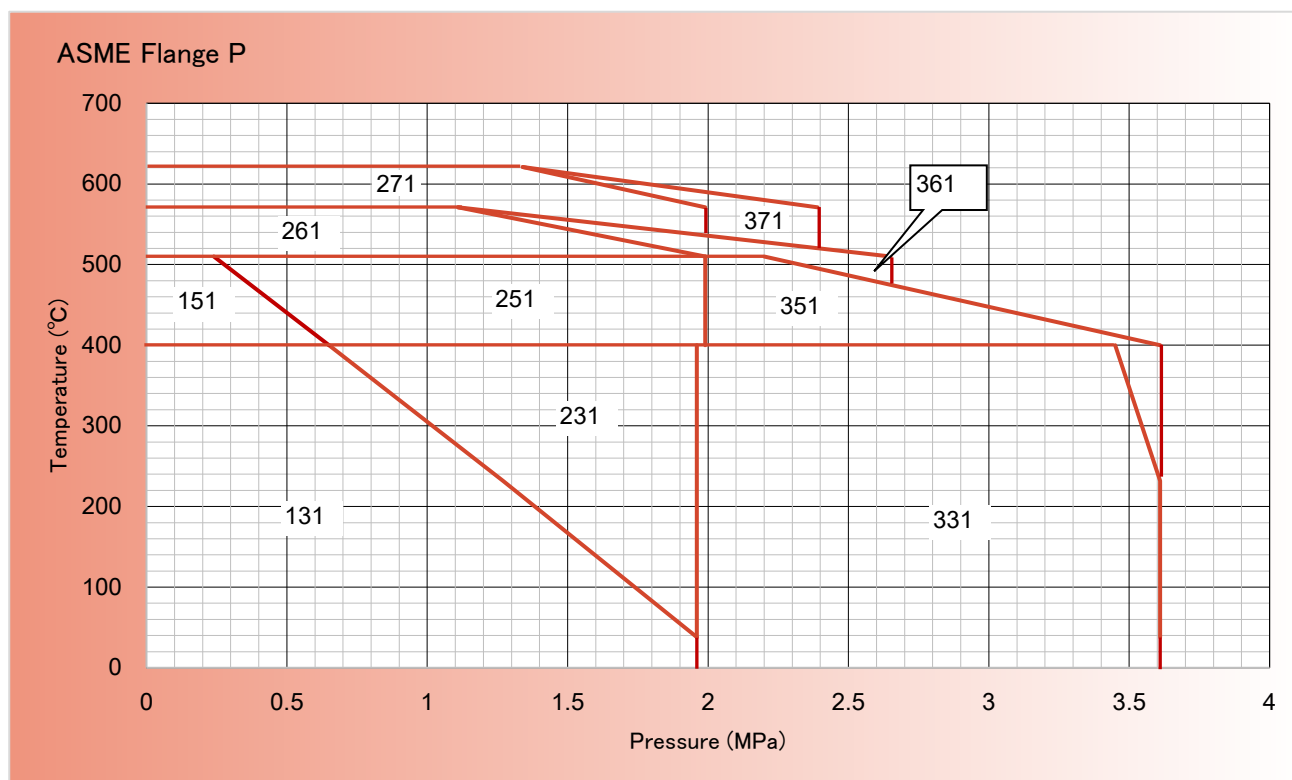
*1 Indicates the pressure class code. *2 Indicates the temperature code.

ASME Flange D, E, F, G, H, J, K, L, M, N



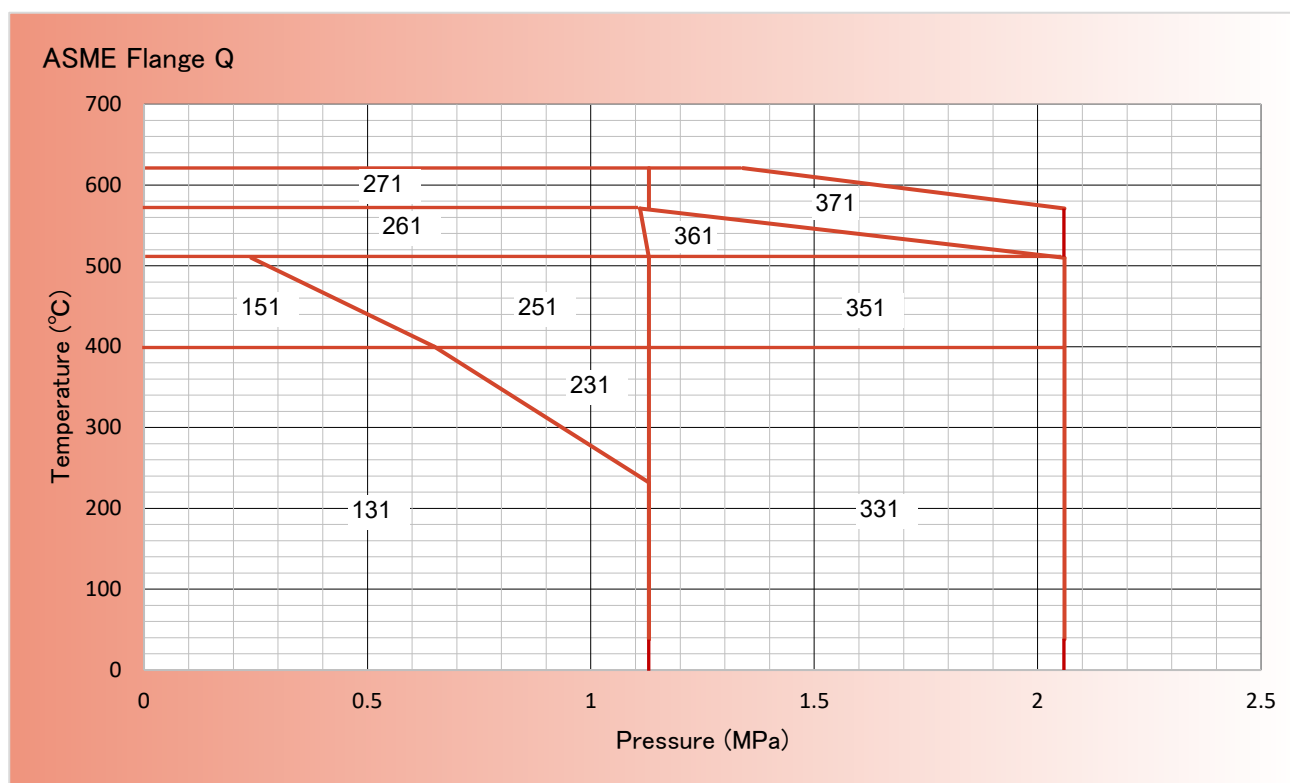
Pressure-temperature Rating SL100–300 ASME Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	232	400	510	571	621
		Inlet	Outlet	*1 *2	3			5	6	7
SCPH2 SA216M-WCB	P	150	150	1	1.96	1.27	0.65	—	—	—
		(300)		2	1.96	1.96	1.96	—	—	—
		300		3	3.61	3.61	3.45	—	—	—
SCPH21 SA217M-WC6		150	150	1	1.99	1.27	0.65	0.24	—	—
		(300)		2	1.99	1.99	1.99	1.99	—	—
		300		3	3.61	3.61	3.61	2.2	—	—
SCPH32 SA217M-WC9		150	150	1	1.99	1.27	0.65	0.24	—	—
		(300)		2	1.99	1.99	1.99	1.99	1.11	—
		300		3	3.61	3.61	3.61	2.65	1.11	—
火 SCPH91 SA217M-C12A		150	150	1	1.99	1.27	0.65	0.24	—	—
		(300)		2	1.99	1.99	1.99	1.99	1.99	1.34
		300		3	3.61	3.61	3.61	2.65	2.39	1.34

*1 Indicates the pressure class code. *2 Indicates the temperature code.



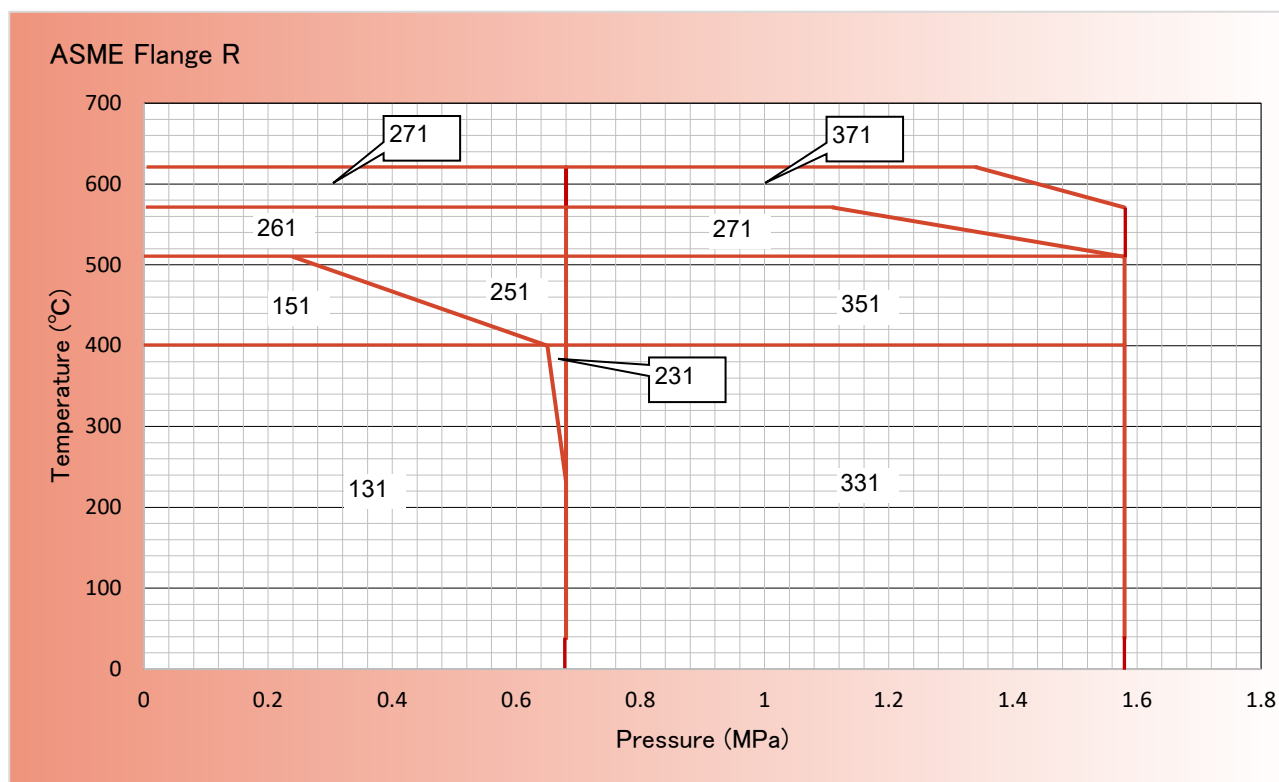
Pressure-temperature Rating SL100–300 ASME Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	232	400	510	571	621
		Inlet	Outlet	*1 *2	3		5	6	7	
SCPH2 SA216M-WCB	Q	150	150	1	1.13	1.13	0.65	—	—	—
		(300)		2	1.13	1.13	1.13	—	—	—
		300		3	2.06	2.06	2.06	—	—	—
SCPH21 SA217M-WC6		150	150	1	1.13	1.13	0.65	0.24	—	—
		(300)		2	1.13	1.13	1.13	1.13	—	—
		300		3	2.06	2.06	2.06	2.06	—	—
SCPH32 SA217M-WC9		150	150	1	1.13	1.13	0.65	0.24	—	—
		(300)		2	1.13	1.13	1.13	1.13	1.11	—
		300		3	2.06	2.06	2.06	2.06	1.11	—
火 SCPH91 SA217M-C12A		150	150	1	1.13	1.13	0.65	0.24	—	—
		(300)		2	1.13	1.13	1.13	1.13	1.13	1.13
		300		3	2.06	2.06	2.06	2.06	2.06	1.34

*1 Indicates the pressure class code. *2 Indicates the temperature code.



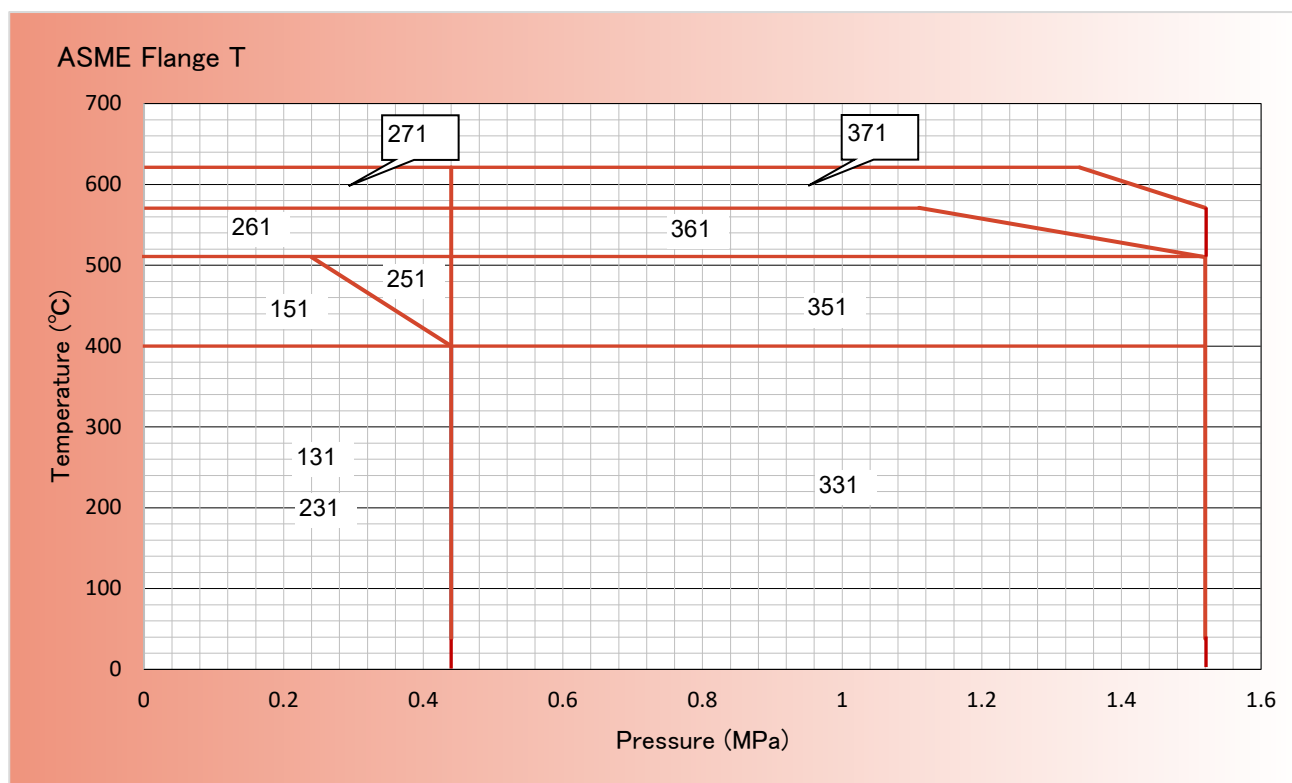
Pressure-temperature Rating SL100-300 ASME Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	232	400	510	571	621
		Inlet	Outlet	*1 *2	3		5	6	7	
SCPH2 SA216M-WCB	R	150	150	1	0.68	0.68	0.65	—	—	—
		(300)		2	0.68	0.68	0.68	—	—	—
		300		3	1.58	1.58	1.58	—	—	—
SCPH21 SA217M-WC6		150	150	1	0.68	0.68	0.65	0.24	—	—
		(300)		2	0.68	0.68	0.68	0.68	—	—
		300		3	1.58	1.58	1.58	1.58	—	—
SCPH32 SA217M-WC9		150	150	1	0.68	0.68	0.65	0.24	—	—
		(300)		2	0.68	0.68	0.68	0.68	0.68	—
		300		3	1.58	1.58	1.58	1.58	1.11	—
火 SCPH91 SA217M-C12A		150	150	1	0.68	0.68	0.65	0.24	—	—
		(300)		2	0.68	0.68	0.68	0.68	0.68	0.68
		300		3	1.58	1.58	1.58	1.58	1.58	1.34

*1 Indicates the pressure class code. *2 Indicates the temperature code.



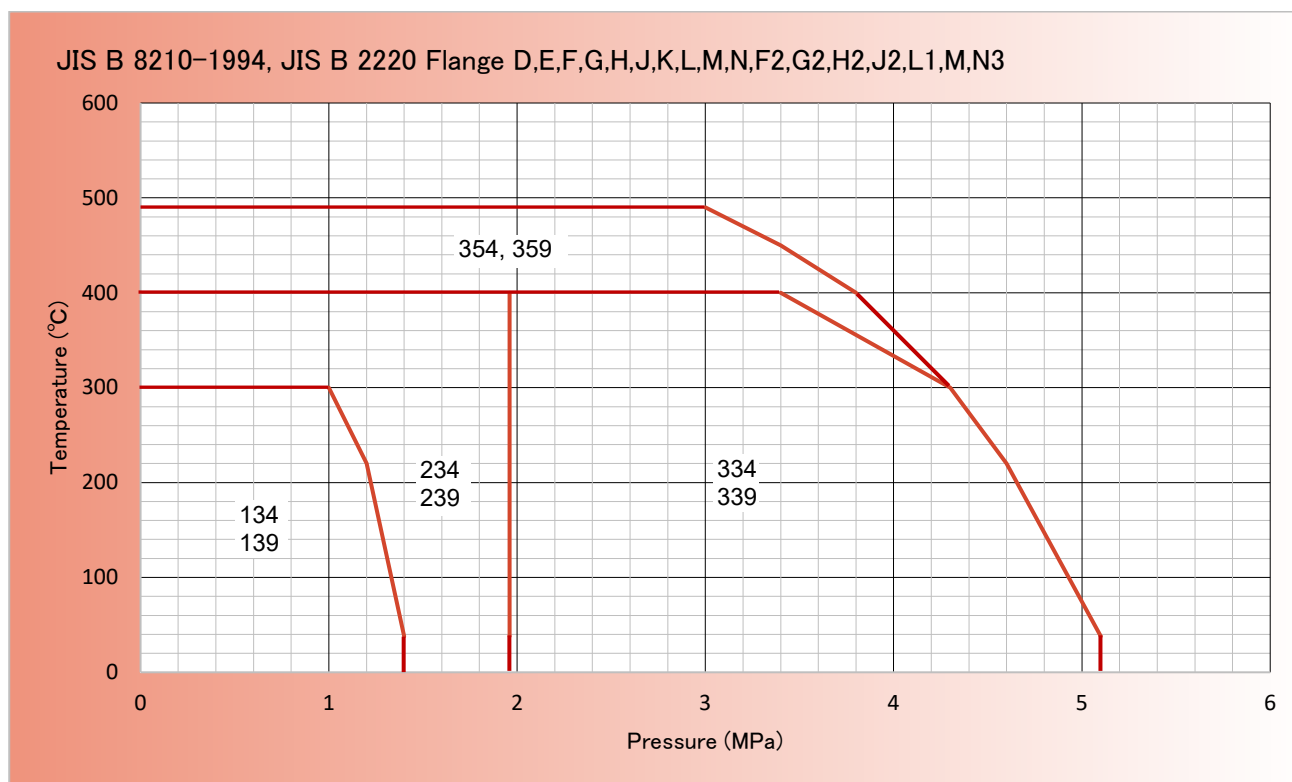
Pressure-temperature Rating SL100–300 ASME Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	232	400	510	571	621
		Inlet	Outlet	*1 *2	3			5	6	7
SCPH2 SA216M-WCB	T	150	150	1	0.44	0.44	0.44	—	—	—
		(300)		2	0.44	0.44	0.44	—	—	—
		300		3	1.52	1.52	1.52	—	—	—
SCPH21 SA217M-WC6		150	150	1	0.44	0.44	0.44	0.24	—	—
		(300)		2	0.44	0.44	0.44	0.44	—	—
		300		3	1.52	1.52	1.52	1.52	—	—
SCPH32 SA217M-WC9		150	150	1	0.44	0.44	0.44	0.24	—	—
		(300)		2	0.44	0.44	0.44	0.44	0.44	—
		300		3	1.52	1.52	1.52	1.52	1.11	—
火 SCPH91 SA217M-C12A		150	150	1	0.44	0.44	0.44	0.24	—	—
		(300)		2	0.44	0.44	0.44	0.44	0.44	0.44
		300		3	1.52	1.52	1.52	1.52	1.52	1.34

*1 Indicates the pressure class code. *2 Indicates the temperature code.



Pressure-temperature Rating SL100-300, SJ100-300 JIS B 8210-1994, JIS B 2220 Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	220	300	400	450	490
		Inlet	Outlet	*1 *2	3				5	
SCPH2, SA216M-WCB	D, E, F, G, H, J, K, L, M, N F2, G2, H2, J2, L1, M, N3	10K	10K	1	1.4	1.2	1.0	—	—	—
		20K		2	1.96	1.96	1.96	1.96	—	—
		30K		3	5.1	4.6	4.3	3.4	—	—
SCPH21, SA217M-WC6		30K	10K	3	5.1	4.6	4.3	3.8	3.4	3.0

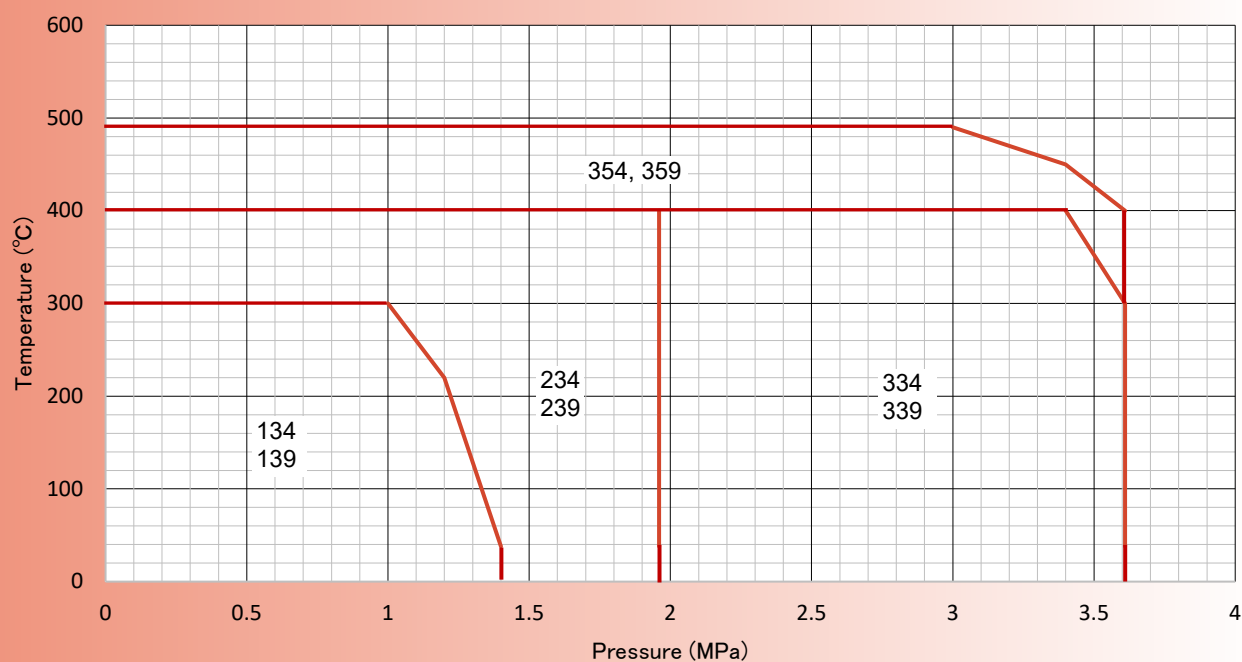
*1 Indicates the pressure class code. *2 Indicates the temperature code.



Pressure-temperature Rating SL100–300, SJ100–300 JIS B B 8210-1994, JIS B 2220 Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	220	300	400	450	490
		Inlet	Outlet	*1 *2	3				5	
SCPH2, SA216M-WCB	P P2	10K	10K	1	1.4	1.2	1.0	—	—	—
		20K		2	1.96	1.96	1.96	1.96	—	—
		30K		3	3.61	3.61	3.61	3.4	—	—
SCPH21, SA217M-WC6		30K	10K	3	3.61	3.61	3.61	3.61	3.4	3.0

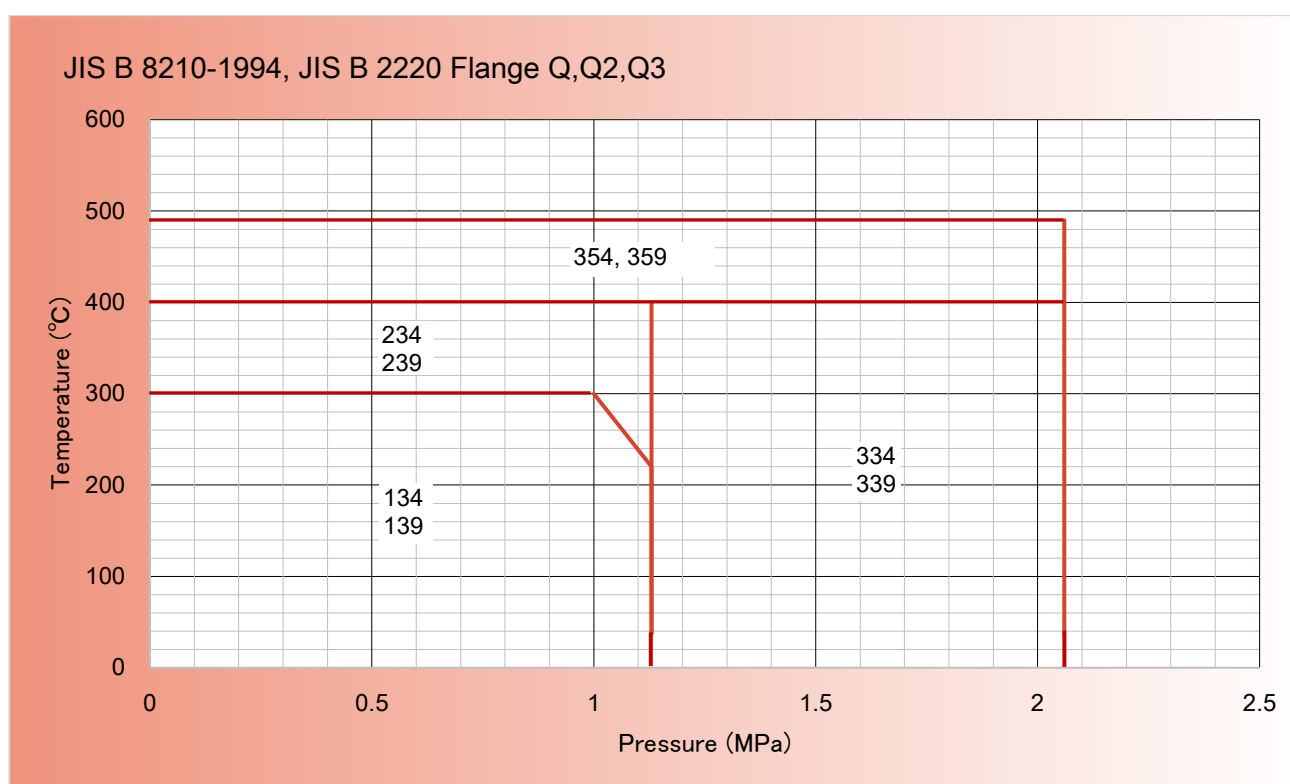
*1 Indicates the pressure class code. *2 Indicates the temperature code.

JIS B 8210-1994, JIS B 2220 Flange P, P2



Pressure-temperature Rating SL100-300, SJ100-300 JIS B 8210-1994, JIS B 2220 Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	220	300	400	450	490
		Inlet	Outlet	*1 *2	3				5	
SCPH2, SA216M-WCB	Q Q2, Q3	10K	10K	1	1.13	1.13	1.0	—	—	—
		20K		2	1.13	1.13	1.1	1.13	—	—
		30K		3	2.06	2.06	2.1	2.06	—	—
SCPH21, SA217M-WC6		30K	10K	3	2.06	2.06	2.1	2.06	2.06	2.06

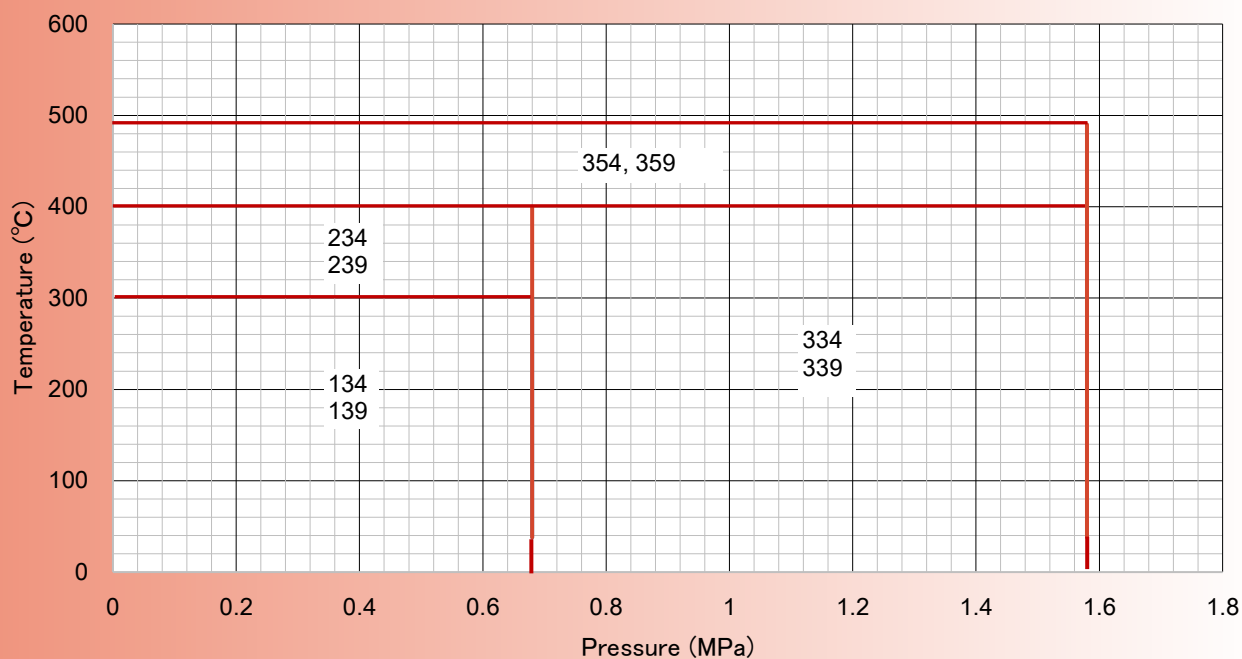
*1 Indicates the pressure class code. *2 Indicates the temperature code.



Pressure-temperature Rating SL100-300, SJ100-300 JIS B 8210-1994, JIS B 2220 Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	220	300	400	450	490
		Inlet	Outlet	*1 *2	3			5		
SCPH2, SA216M-WCB	R	10K	10K	1	0.68	0.68	0.68	—	—	—
		20K		2	0.68	0.68	0.68	0.68	—	—
		30K		3	1.58	1.58	1.58	1.58	—	—
SCPH21, SA217M-WC6		30K	10K	3	1.58	1.58	1.58	1.58	1.58	1.58

*1 Indicates the pressure class code. *2 Indicates the temperature code.

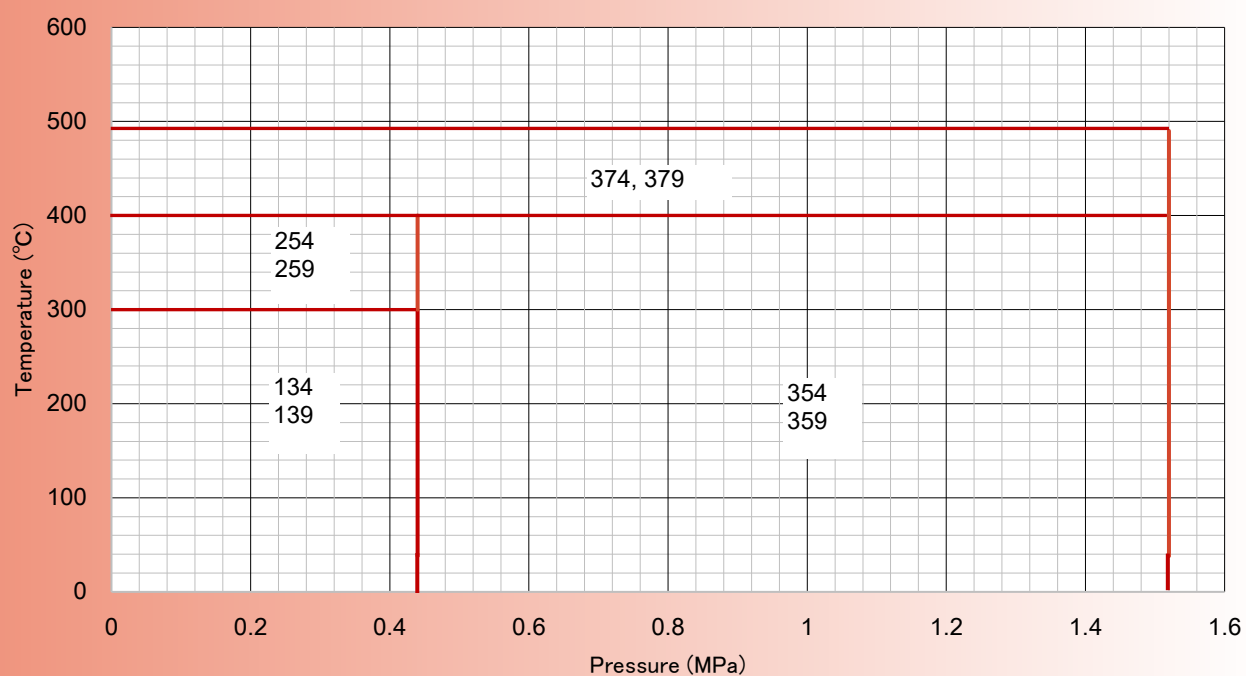
JIS B 8210-1994, JIS B 2220 Flange R



Pressure-temperature Rating SL100–300, SJ100–300 JIS B 8210-1994, JIS B 2220 Flange										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature °C	38	220	300	400	450	490
		Inlet	Outlet	*1 *2	3				5	
SCPH2, SA216M-WCB	T	10K	10K	1	0.44	0.44	0.44	—	—	—
		20K		2	0.44	0.44	0.44	0.44	—	—
		30K		3	1.52	1.52	1.52	1.52	—	—
SCPH21, SA217M-WC6		30K	10K	3	1.52	1.52	1.52	1.52	1.52	1.52

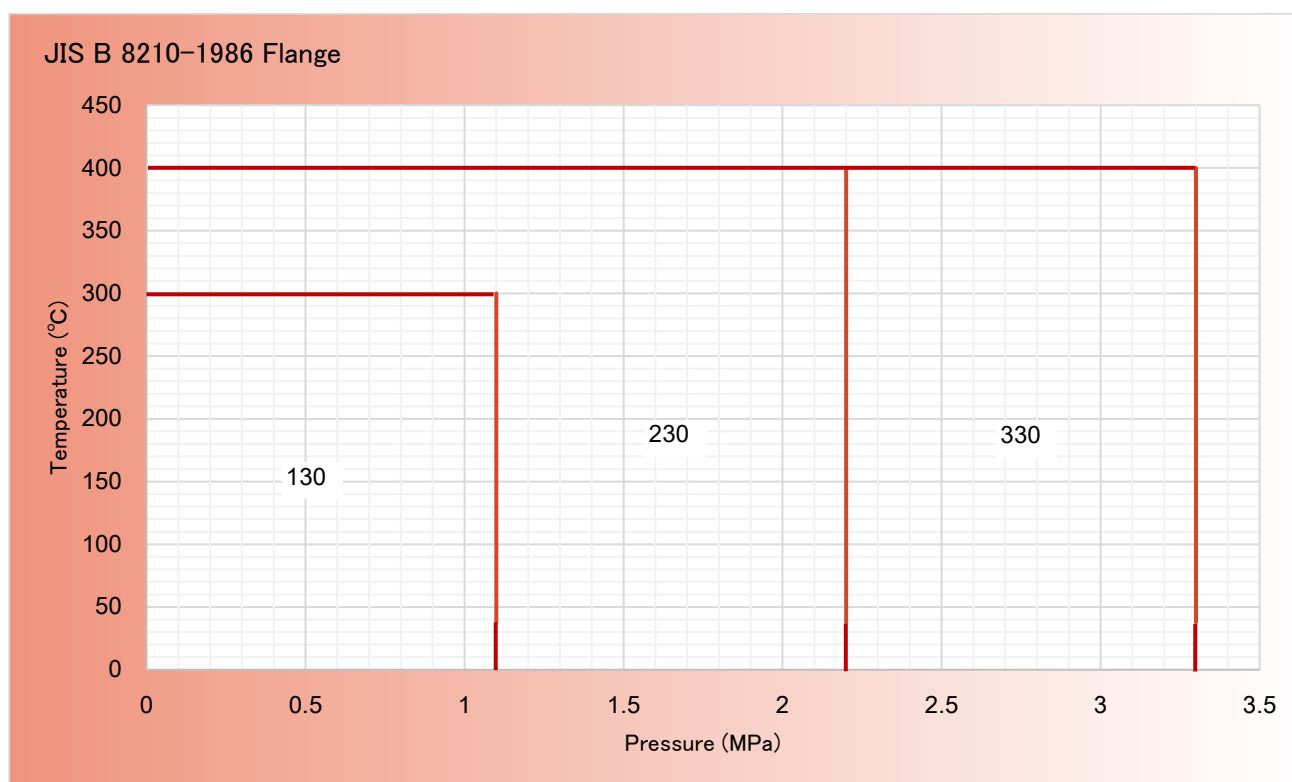
*1 Indicates the pressure class code. *2 Indicates the temperature code.

JIS B 8210-1994, JIS B 2220 Flange T

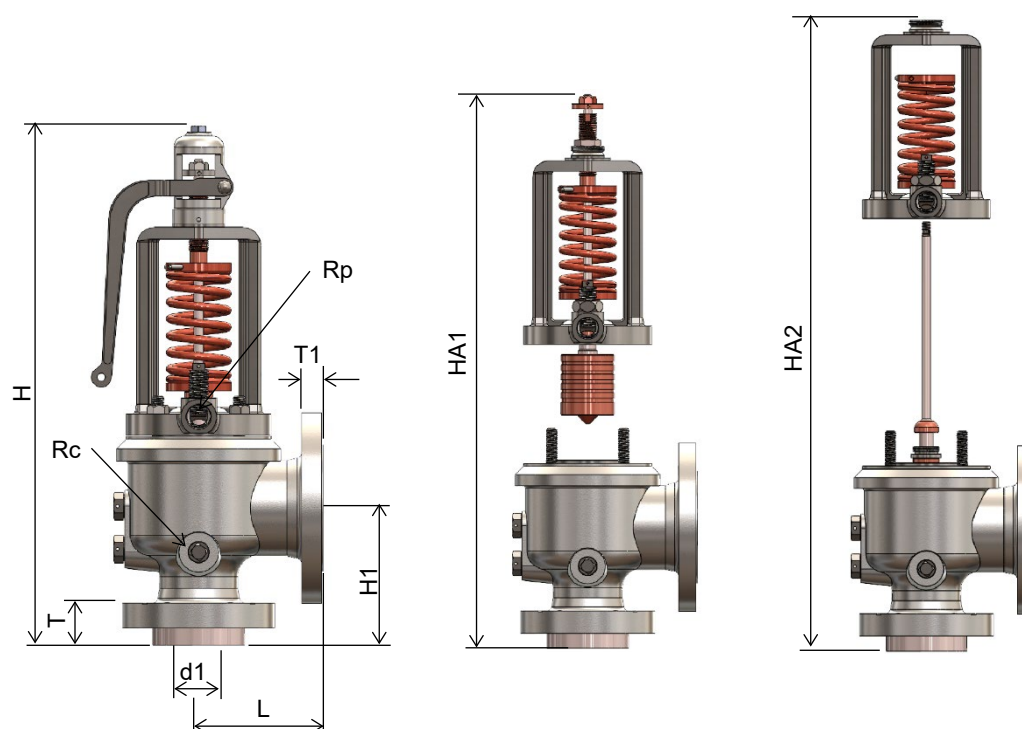


Pressure-temperature Rating		SJ100-300		JIS B 8210-1986		Flange		
Body material	Size	Flange class		Maximum pressure limit MPa				
				Temperature	38	220	300	400
		Inlet	Outlet	*1 *2	3			
SCPH2, SA216M-WCB	All	10K	10K	1	1.1	1.1	1.1	—
		20K		2	2.2	2.2	2.2	2.2
		30K		3	3.3	3.3	3.3	3.3

*1 Indicates the pressure class code. *2 Indicates the temperature code.



◆ Dimensions and Weight



ASME, JPI Flange															Dimensions and weight										Units: mm, kg	
Size	Pressure class code	Flange class		Inlet diameter	Center-to-face			Flange thickness		Overall length	Disassembly height		Thread		Approximate weight											
								Inlet	Outlet		Dual partitioning	Full disassembly	Drain	Needle												
		Inlet	Outlet	d1	H1	L	T	T1	H	HA1	HA2	Rc	Rp													
3/4*D*1	1	150	150	20	92	96	30	14.5	350	430	470	3/8	1/2	11												
	2	300																								
	3	300																								
1*D*2	1	150	150	25	105	114	32	16	360	450	480	3/8	1/2	13												
	2	300												14												
	3	300																								
1*E*2	1	150	150	25	105	114	32	16	360	450	480	3/8	1/2	13												
	2	300												14												
	3	300																								
1 1/2*F*2	1	150	150	40	124	121	39	16	380	470	500	1/2	1/2	16												
	2	300				152	40							19												
	3	300																								
1 1/2*G*3	1	150	150	40	124	121	39	20	410	510	550	1/2	1/2	21												
	2	300				152	40		425	520	590			22												
	3	300												3/4	24											

ASME, JPI Flange															Dimensions and weight					Units: mm, kg			
Size	Pressure class code	Flange class		Inlet diameter	Center-to-face		Flange thickness		Overall length	Disassembly height		Thread		Approximate weight									
							Inlet	Outlet		Dual partitioning	Full disassembly	Drain	Needle										
		Inlet	Outlet	d1	H1	L	T	T1	H	HA1	HA2	Rc	Rp										
1 1/2"H*3	1	150	150	40	130	124	39	20	445	540	610	1/2	3/4	23									
	2	300												24									
	2"H*3	3												300	50	41	500	600	700	31			
2*J*3	1	150	150	50	137	124	41	20	515	630	710	1/2	3/4	30									
	2	300												31									
	3*J*4	3												300	80	184	181	48	24	595	700	830	1
3*K*4	1	150	150	80	156	162	47	24	620	740	850	1/2	1	51									
	2	300												53									
	3	300							665	790	950			60									
3*L*4	1	150	150	80	156	165	47	24	680	820	960	1/2	1	59									
	2	300												61									
	4*L*6	3												300	100	179	181	50	26	765	890	1110	1 1/4
4*M*6	1	150	150	100	178	184	50	26	700	860	980	1/2	1	71									
	2	300												73									
	3	300							840	970	1190			1 1/4	105								
4*N*6	1	150	150	100	197	210	50	26	790	960	1130	1/2	1 1/4	90									
	2	300												92									
	3	300							865	1020	1210			113									
4*P*6	1	150	150	100	181	229	50	26	875	1050	1220	1/2	1 1/4	110									
	2	300												112									
	3	300			225	254			1010	1200	1450			160									
6*Q*8	1	150	150	150	240	241	44	29	1050	1290	1490	1/2	1 1/4	200									
	2	300					55							205									
	3	300					220																
6*R*8	1	150	150	150	240	241	44	29	1160	1410	1660	3/4	1 1/4	260									
	2	300					56							265									
	6*R*10	3				300	267							31	285								
8*T*10	1	150	150	200	276	279	48	31	1380	1680	2040	3/4	1 1/2	400									
	2	300					60							410									
	3	300					420																

JIS B 2220 Flange															Dimensions and weight										Units: mm, kg	
Size	Pressure class code	Flange class		Inlet diameter	Center-to-face			Flange thickness		Overall length	Disassembly height		Thread		Approximate weight											
								Inlet	Outlet		Dual partitioning	Full disassembly	Drain	Needle												
		Inlet	Outlet	d1	H1	L	T	T1	H	HA1	HA2	Rc	Rp													
20*D*25	1	10	10	20	92	96	30	14	350	430	470	3/8	1/2	11												
	2	20																								
	3	30																								
25*D*50	1	10	10	25	105	114	32	16	360	450	480	3/8	1/2	13												
	2	20												14												
	3	30																								
25*E*50	1	10	10	25	105	114	32	16	360	450	480	3/8	1/2	13												
	2	20												14												
	3	30																								
40*F*50	1	10	10	40	124	121	39	16	380	470	500	1/2	1/2	16												
	2	20				152	40							19												
	3	30																								
40*G*80	1	10	10	40	124	121	39	20	410	510	550	1/2	1/2	21												
	2	20				152	40		425	520	590		22													
	3	30				24																				
40*H*80	1	10	10	40	130	124	39	20	445	540	610	1/2	3/4	23												
2	20	41					500		600	700	24															
50*H*80	3	30		50			31																			
50*J*80	1	10	10	50	137	124	41	20	515	630	710	1/2	3/4	30												
	2	20											31													
80*J*100	3	30		80									184	181	48	24	595	700	830	1	50					
80*K*100	1	10	10	80	156	162	47	24	620	740	850	1/2	1	51												
	2	20							665	790	950			53												
	3	30							60																	
80*L*100	1	10	10	80	156	165	47	24	680	820	960	1/2	1	59												
	2	20											61													
100*L*150	3	30		100									179	181	50	26	765	890	1110	1 1/4	90					
100*M*150	1	10	10	100	178	184	50	26	700	860	980	1/2	1	71												
	2	20							840	970	1190		73													
	3	30							1 1/4	105																

JIS B 2220 Flange															Dimensions and weight				Units: mm, kg	
Size	Pressure class code	Flange class		Inlet diameter	Center-to-face		Flange thickness		Overall length	Disassembly height		Thread		Approximate weight						
							Inlet	Outlet		Dual partitioning	Full disassembly	Drain	Needle							
		Inlet	Outlet	d1	H1	L	T	T1	H	HA1	HA2	Rc	Rp							
100*N*150	1	10	10	100	197	210	50	26	790	960	1130	1/2	1 1/4	90						
	2	20							865	1020	1210			92						
	3	30							865	1020	1210			113						
100*P*150	1	10	10	100	181	229	50	22	875	1050	1220	1/2	1 1/4	110						
	2	20			225	254		26						112						
	3	30						1010	1200	1450	160									
150*Q*200	1	10	10	150	240	241	44	29	1050	1290	14980	1/2	1 1/4	200						
	2	20					55							205						
	3	30					55							220						
150*R*200	1	10	10	150	240	241	44	29	1160	1410	1660	3/4	1 1/4	260						
	2	20				267	56							265						
150*R*250	3	30					31	31						285						
200*T*250	1	10	10	200	276	279	48	31	1380	1680	2040	3/4	1 1/2	400						
	2	20					60							410						
	3	30												420						

JIS B 8210-1994 Flange															Dimensions and weight				Units: mm, kg	
Size	Pressure class code	Flange class		Inlet diameter	Center-to-face		Flange thickness		Overall length	Disassembly height		Thread		Approximate weight						
							Inlet	Outlet		Dual partitioning	Full disassembly	Drain	Needle							
		Inlet	Outlet	d1	H1	L	T	T1	H	HA1	HA2	Rc	Rp							
25*F2*40	1	10	10	25	120	110	40	16	400	500	540	1/2	1/2	17						
	2	20				120	42		425	520	590		3/4	20						
	3	30																		
32*G2*50	1	10	10	32	125	120	44	16	440	540	600	1/2	3/4	23						
	2	20							505	600	700		3/4	27						
	3	30																		
40*H2*65	1	10	10	40	135	130	46	18	525	630	720	1/2	3/4	31						
	2	20							600	710	830		1	40						
	3	30																		

JIS B 8210-1994 Flange															Dimensions and weight				Units: mm, kg	
Size	Pressure class code	Flange class		Inlet diameter	Center-to-face		Flange thickness		Overall length	Disassembly height		Thread		Approximate weight						
							Inlet	Outlet		Dual partitioning	Full disassembly	Drain	Needle							
		Inlet	Outlet	d1	H1	L	T	T1	H	HA1	HA2	Rc	Rp							
50*J2*80	1	10	10	50	155	150	44	18	625	750	860	1/2	1	47						
	2	20			165	155	48		670	790	950			54						
	3	30																		
65*L1*100	1	10	10	65	170	160	48	18	690	830	970	1/2	1	63						
	2	20			180	165	52		745	870	1090			1 1/4	75					
	3	30																		
80*M*125	1	10	10	80	180	160	50	20	715	870	990	1/2	1	71						
	2	20			200	180	54		845	980	1190			1 1/4	100					
	3	30																		
90*N3*150	1	10	10	90	190	180	52	22	805	980	1140	1/2	1 1/4	94						
	2	20			210	200	56		870	1020	1210			112						
	3	30																		
100*P2*150	1	10	10	100	200	200	54	22	885	1060	1230	1/2	1 1/4	120						
	2	20			210	220	58		990	1180	1430			3/4	167					
	3	30																		
125*Q2*200	1	10	10	115	220	220	56	22	1015	1220	1450	3/4	1 1/4	178						
	2	20			222		62		1120	1310	1630			240						
	3	30																		
125*Q3*200	1	10	10	125	240	230	56	22	1060	1300	1500	3/4	1 1/4	198						
	2	20				250	62		1170	1390	1680			265						
	3	30																		
150*R*200	1	10	10	150	250	240	60	22	1190	1440	1700	3/4	1 1/4	290						
	2	20			262	260	68							24	310					
	3	30																		
200*T*250	1	10	10	200	290	290	66	31	1395	1700	2060	3/4	1 1/2	465						
	2	20			292															



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