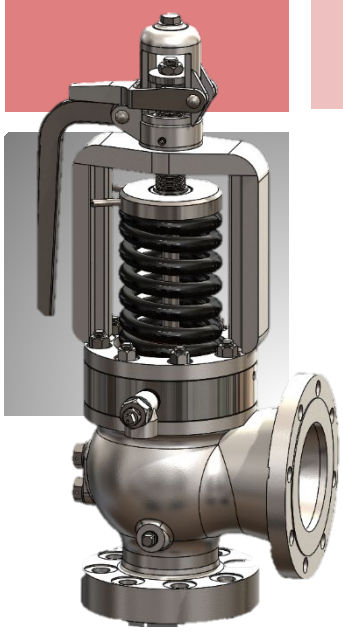


FUKUI

SL400–600M, SJ400–600M Series

Contents

Features

The SL 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 MPa	Discharge coefficient
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 STAMP V 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 STAMP V 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.
* For the actual manufacturing range, 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
-H2		Thermal disc	
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 A216M-WCB	C4	SCPH61 or A217M-C5
C2	SCPH21 or A217M-WC6	CA	火 SPCH91 or A217M-C12A
C3	SCPH32 or A217M-WC9	—	—

Inlet flange class (only different from pressure class) 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() < T ≤ 510(950)	7	571(1060) < T ≤ 604(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 OR JIS B 8210 40K	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	○	○	○

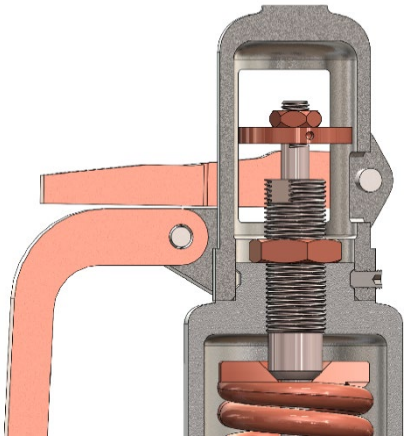


Figure 1　Open lever

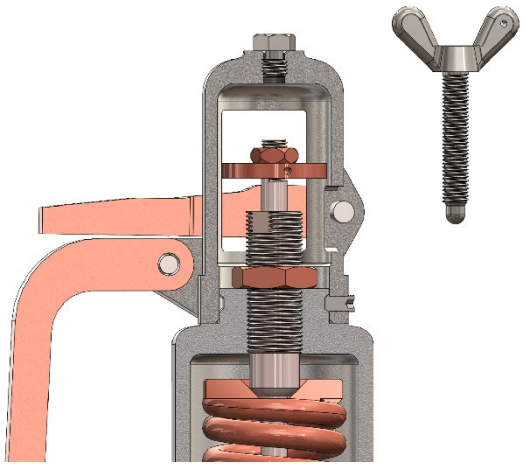


Figure 2　Open lever + Test gag

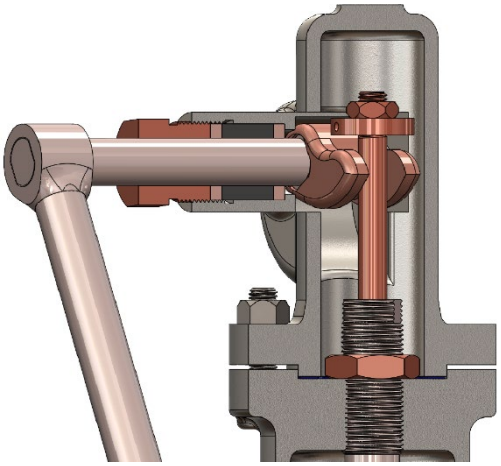


Figure 3　Sealed lever

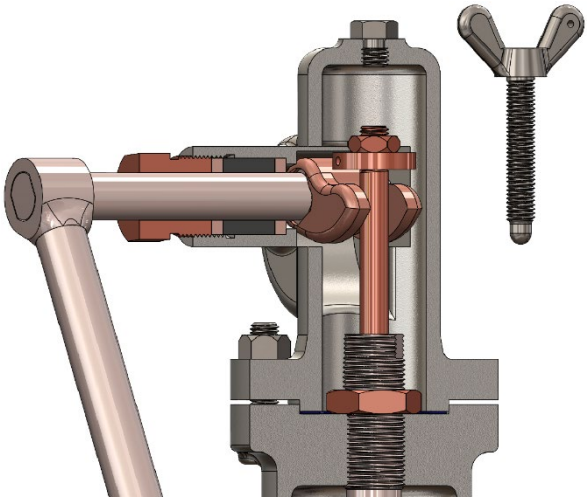


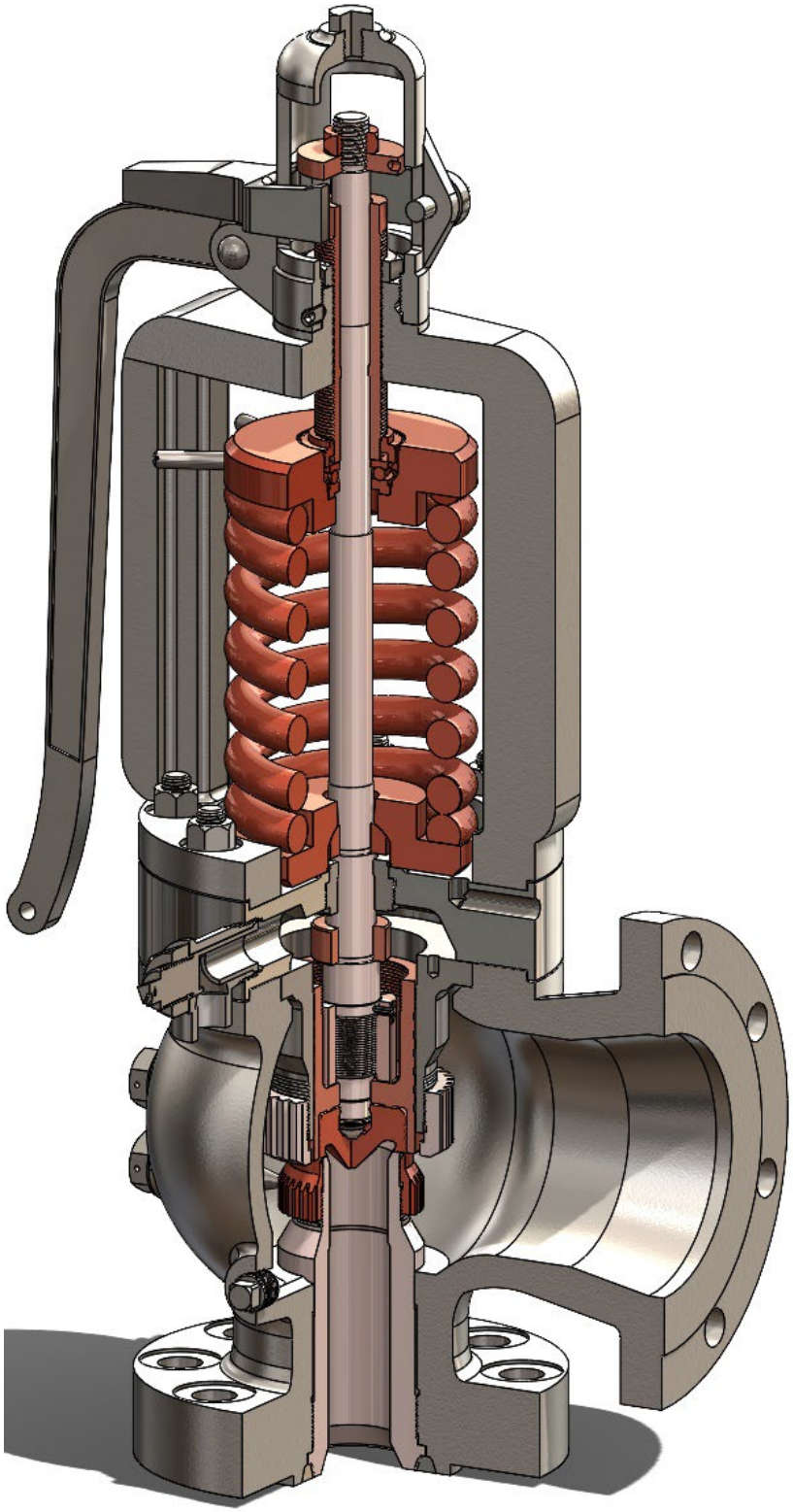
Figure 4　Sealed lever + Test gag

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.

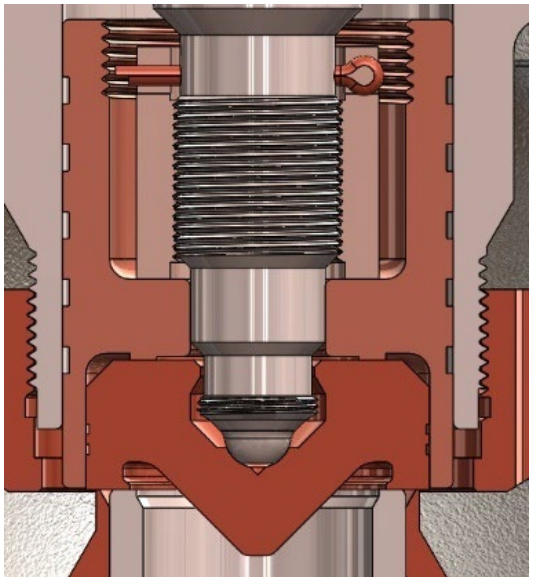
- Full nozzle
- Yoke type
- Cast integral body
- Upper and lower adjusting rings
- Back pressure adjusting needle
- Cooling spool

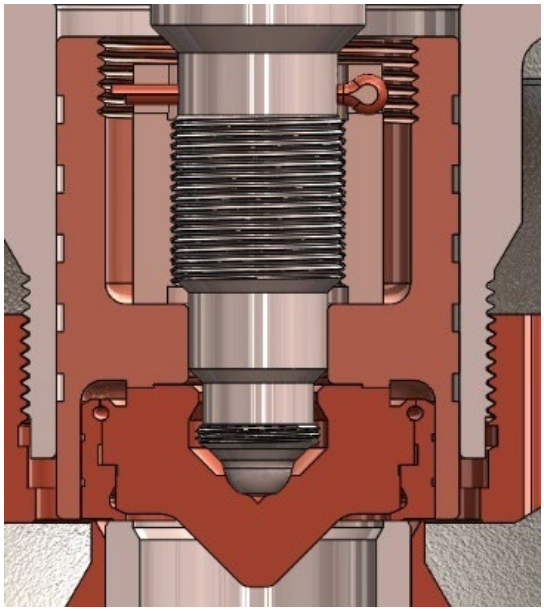


Main Section Structure

The trim of the SL-M 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. The holder structure adopts a flexible holder.

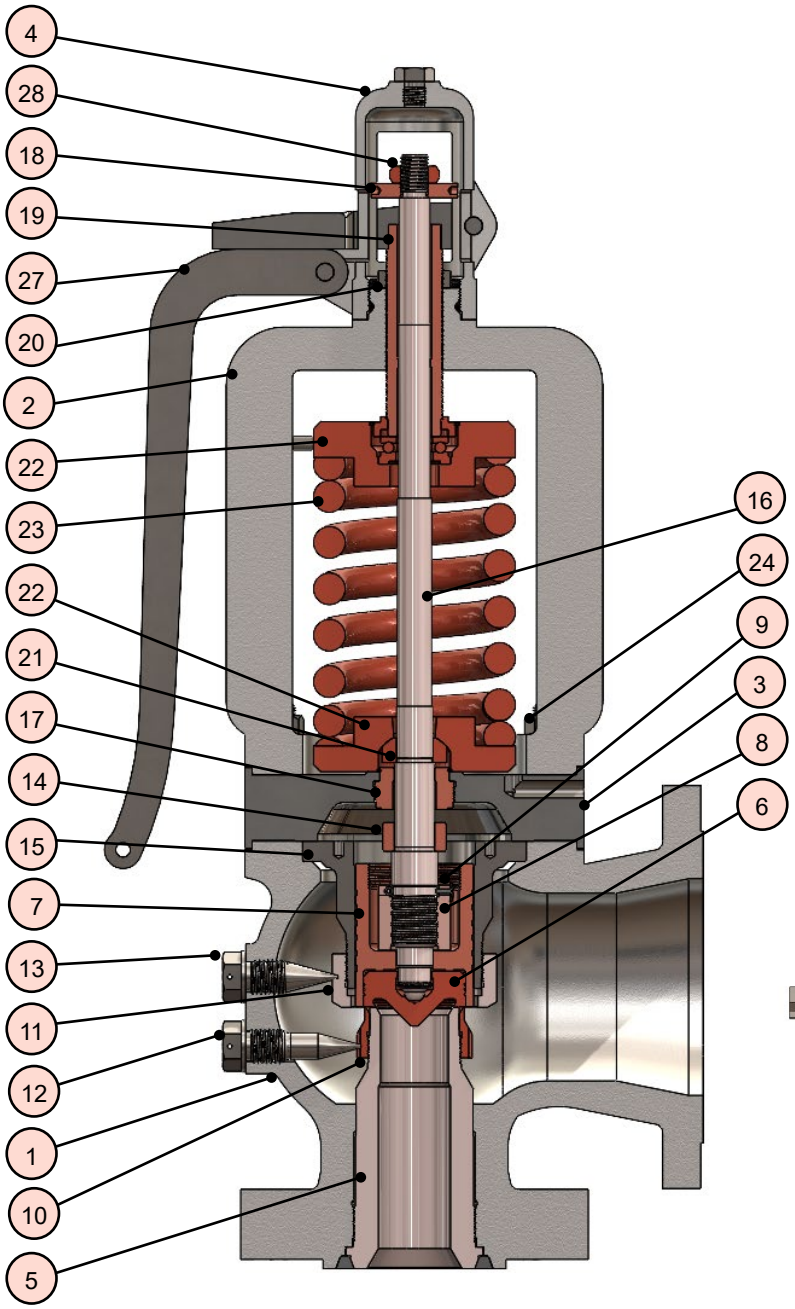
- Feather disc & Flexible holder
  By shaping the seat section into a lip form, the surface pressure at the lip tip is kept high through internal pressure.
  In addition, a flexible holder structure is adopted to minimize the effect of holder inclination on the seat section.



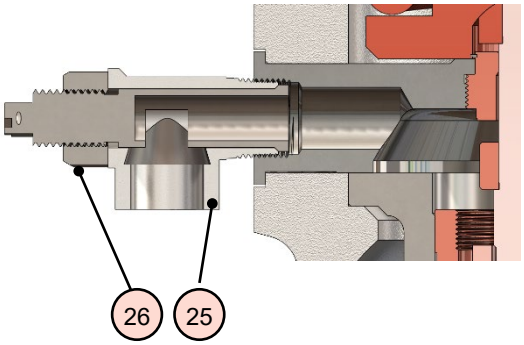


- Thermal disc & Flexible holder
  The lip depth is designed to be larger than that of the feather disc and the internal pressure is utilized more actively to maintain the surface pressure at the lip tip. In addition, to prevent damage from the impact caused when the valve closes after operation, a receiver for preventing deformation is provided at the lip section. The holder has the same structure as that of the feather disc.

Cross-Sectional View



No.	Part name
1	Body
2	Yoke
3	Cooling piece
4	Cap
5	Nozzle
6	Disc
7	Disc holder
8	Disc collar
9	Pin
10	Lower adjusting ring
11	Upper adjusting ring
12	Lower adjusting ring lock bolt
13	Upper adjusting ring lock bolt
14	Lift stopper
15	Guide
16	Spindle
17	Spindle guide
18	Lifting washer
19	Adjusting screw
20	Adjusting screw lock nut
21	Step ring
22	Spring retainer
23	Spring
24	Stud bolt, nut
25	Back pressure adjusting body
26	Back pressure adjusting bolt, nut
27	Lever
28	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	Bonnet	SCPH2 or SA216M-WCB	SCPH21 or SA217M-WC6		SCPH32 or SA217M-WC9
3	Cooling piece	SA105M		SA182M-F12	
4	Cap	FCD450-10			
5	Nozzle	SA105M	SA182M-F12	SA182M-F22	SA182M-F91
6	Disc	SUS630(≤320°C), B637-N07750(≤510°C)		B637-N07750	B637-N07718
7	Disc holder	SUS420J2			
8	Disc collar	SUS630			B637-N07750
9	Pin	SUS304			
10	Lower adjusting ring	SUS304 or SCS13A			
11	Upper adjusting ring	SUS304 or SCS13A			
12	Lower adjusting ring lock bolt	SUS403	SUS431		
13	Upper adjusting ring lock bolt	SUS403	SUS431		
14	Lift stopper	SUS420J2			
15	Guide	SCS1			
16	Spindle	SUS403	SUS431		
17	Spindle guide	SUS630			
18	Lifting washer	SS400			
19	Adjusting screw	SUS420J2			
20	Adjusting screw lock nut	SUS304			
21	Step ring	SUS420J2			
22	Spring retainer	SUS403			
23	Spring	Spring Steel			
24	Stud bolt, nut	SNB7, S45C		SNB16, A194-4	
25	Back pressure adjusting body	SCS13			
26	Back pressure adjusting bolt, nut	SS400.SUS304			
27	Lever	FCMB310-8			
28	Lifting washer lock nut	SS400			

Actual Area

SL400–600

Orifice	Throat diameter mm	Seat diameter Mm	Nominal lift mm	Area mm^2
F1	—	32	2.3	216.4
G1	—	32	3.7	353.0
H	26.6		6.7	555.7
J	34.0		8.5	907.9
K	40.6		10.2	1294.6
K2	46.9		11.8	1727.6
L	50.6		12.7	2010.9
M	56.8		14.2	2533.9
M2	57.4		14.4	2587.7
N2	66.0		16.5	3421.2
P	75.7		19.0	4500.7
PS	77.9		19.5	4766.1
Q0	83.4		20.9	5462.9
Q1	90.4		22.6	6418.4
Q	99.6		24.9	7791.3
R	119.8		30.0	11272.0
RR	127.1		31.8	12687.6
T	152.8		38.2	18337.3

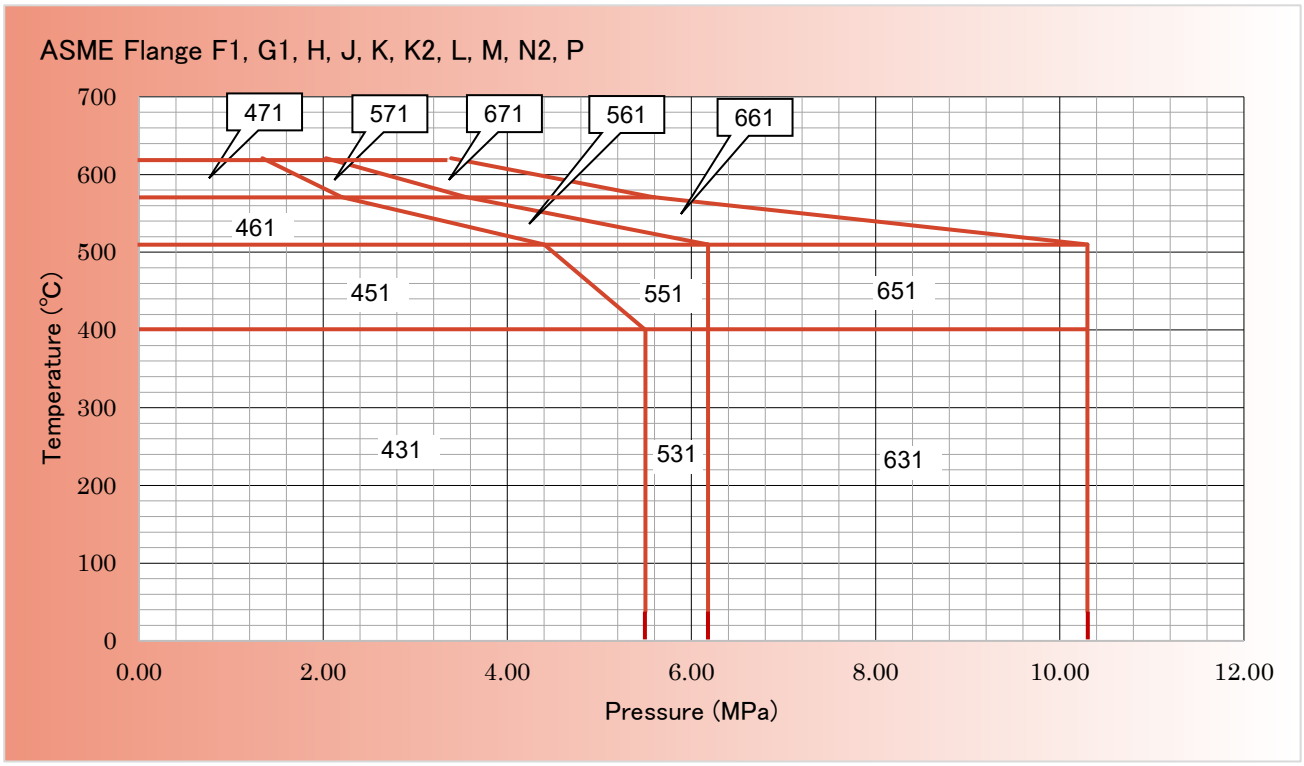
SJ400–600

Orifice	Throat diameter mm	Nominal lift mm	Throat area mm^2
19	19	4.8	283.5
24	24	6.0	452.4
30	30	7.5	706.8
38	38	9.5	1134.1
49	49	12.3	1885.7
56	56	14.0	2463.0
65	65	16.3	3318.3
73	73	18.3	4185.3
82	82	20.5	5281.0
88	88	22.0	6082.1
105	105	26.3	8659.0

Pressure-temperature Rating

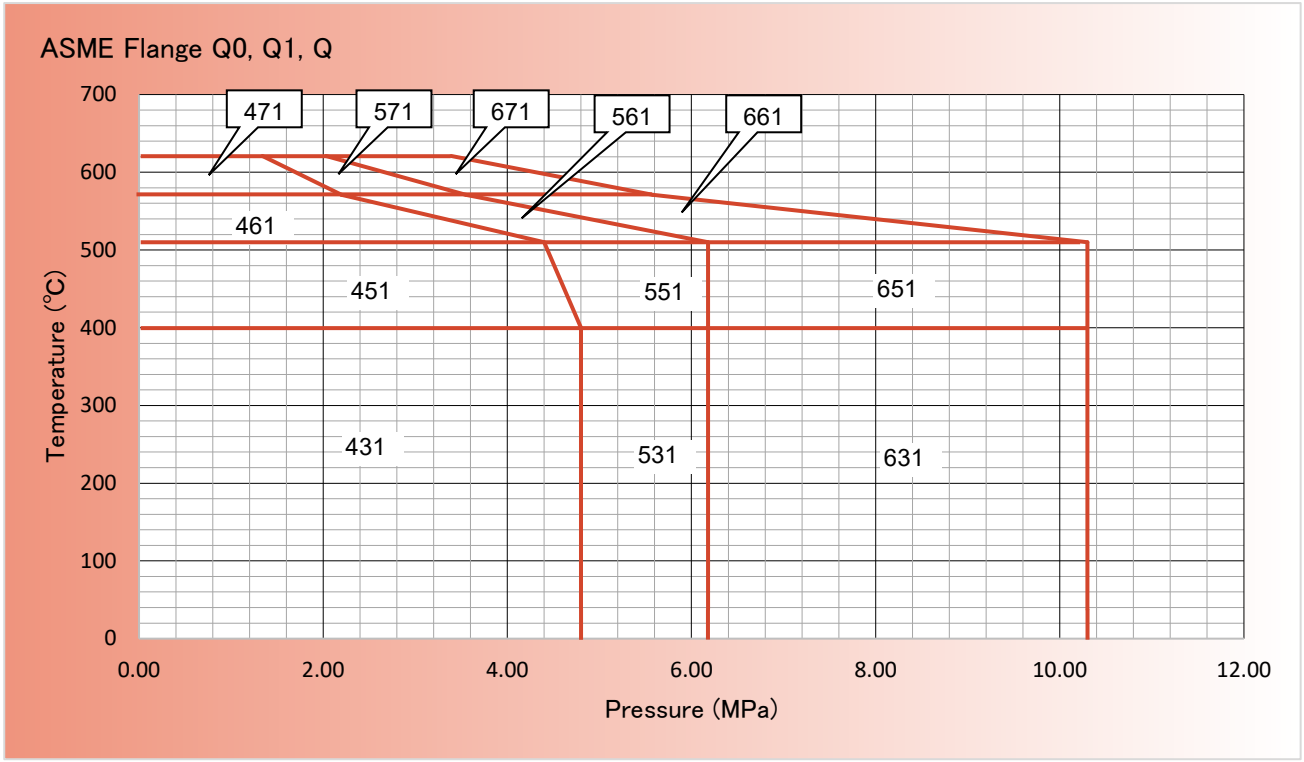
Pressure-temperature Rating SL ASME B16.5 Flange Orifice F1, G1, H, J, K, K2, L, M, N2, P											
Body material	Size	Flange class		Maximum pressure limit MPa							
				Temperature T °C	38	232	400	510	571	621
		Inlet	Outlet	*1 \ *2	3			5	6	7
WCB	F1, G1 H, J K, K2 L, M N2, P	600	150	4	5.50	5.50	5.50	—	—	—
		900		5	6.18	6.18	6.18	—	—	—
		1500		6	10.30	10.30	10.30	—	—	—
WC6		600	150	4	—	—	5.50	4.40	—	—
		900		5	—	—	6.18	6.18	—	—
		1500		6	—	—	10.30	10.30	—	—
WC9		600	150	4	—	—	—	4.40	2.20	—
		900		5	—	—	—	6.18	3.55	—
		1500		6	—	—	—	10.30	5.58	—
C12A		600	150	4	—	—	—	—	2.20	1.34
		900		5	—	—	—	—	3.55	2.03
		1500		6	—	—	—	—	5.58	3.39

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



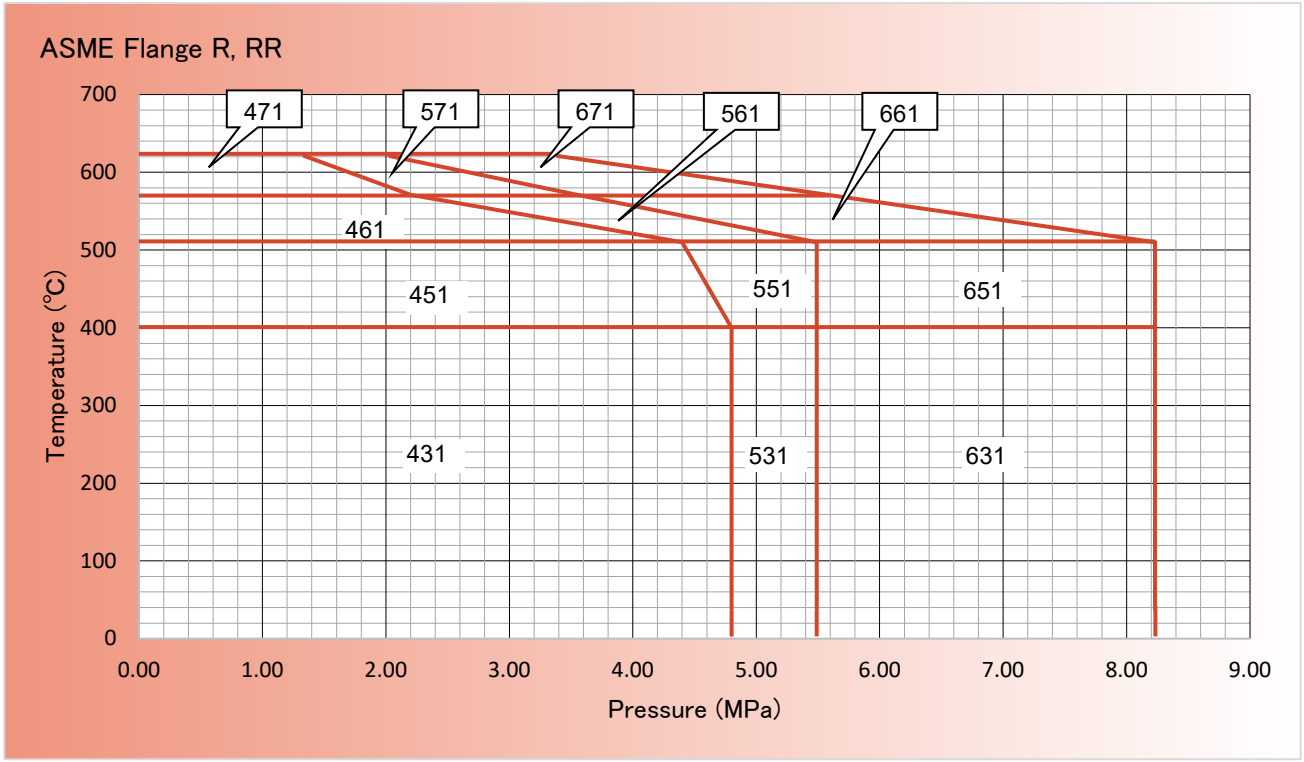
Pressure-temperature Rating SL ASME B16.5 Flange Orifice Q0, Q1, Q											
Body material	Size	Flange class		Maximum pressure limit MPa							
				Temperature T °C	38	232	400	510	571	621
		Inlet	Outlet	*1 \ *2	3			5	6	7
WCB	Q0, Q1 Q	600	150	4	4.80	4.80	4.80	—	—	—
		900		5	6.18	6.18	6.18	—	—	—
		1500		6	10.30	10.30	10.30	—	—	—
WC6		600	150	4	—	—	4.80	4.40	—	—
		900		5	—	—	6.18	6.18	—	—
		1500		6	—	—	10.30	10.30	—	—
WC9		600	150	4	—	—	—	4.40	2.20	—
		900		5	—	—	—	6.18	3.55	—
		1500		6	—	—	—	10.30	5.58	—
C12A		600	150	4	—	—	—	—	2.20	1.34
		900		5	—	—	—	—	3.55	2.03
		1500		6	—	—	—	—	5.58	3.39

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



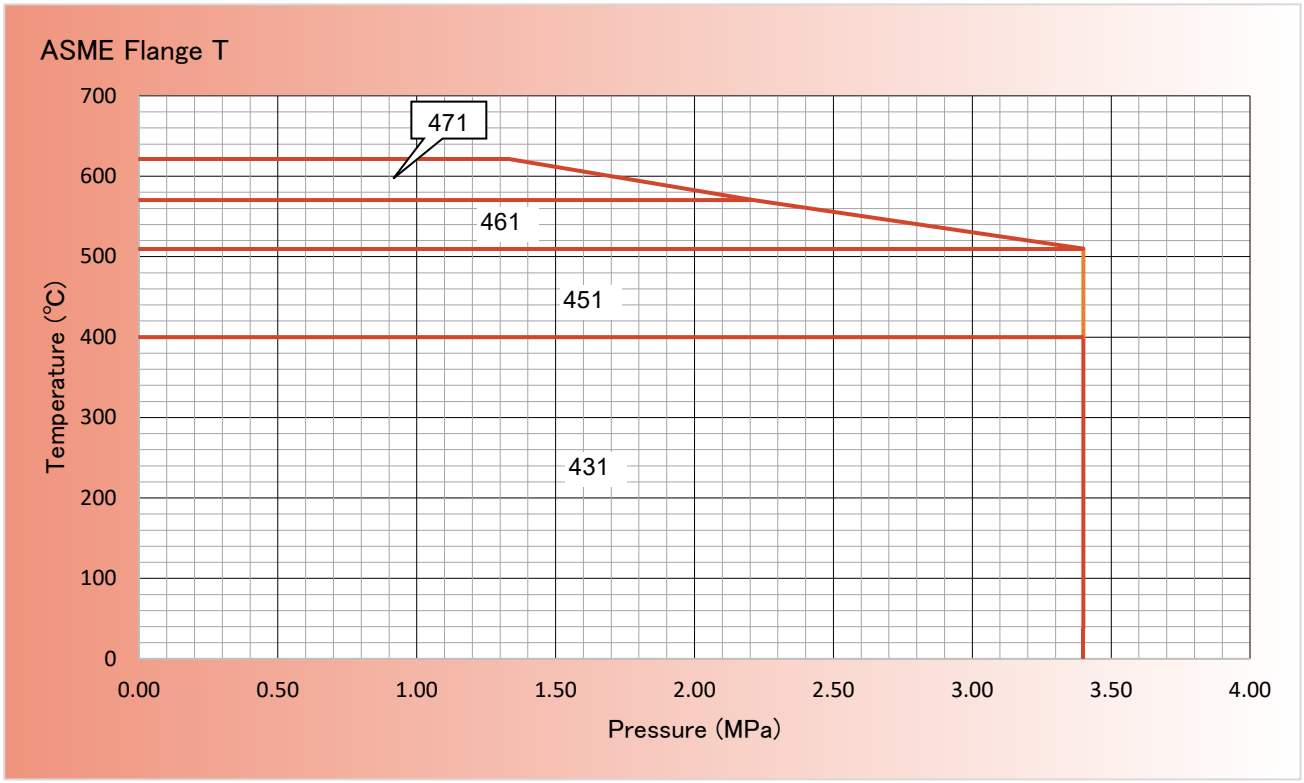
Pressure-temperature Rating SL ASME B16.5 Flange Orifice R, RR											
Body material	Size	Flange class		Maximum pressure limit MPa							
				Temperature T °C	38	232	400	510	571	621
		Inlet	Outlet	*1 \ *2	3			5	6	7
WCB	R, RR	600	150	4	4.80	4.80	4.80	—	—	—
		900		5	5.49	5.49	5.49	—	—	—
		1500		6	8.2	8.23	8.23	—	—	—
WC6		600	150	4	—	—	4.80	4.40	—	—
		900		5	—	—	5.49	5.49	—	—
		1500		6	—	—	8.23	8.23	—	—
WC9		600	150	4	—	—	—	4.40	2.20	—
		900		5	—	—	—	5.49	3.55	—
		1500		6	—	—	—	8.23	5.58	—
C12A		600	150	4	—	—	—	—	2.20	1.34
		900		5	—	—	—	—	3.55	2.03
		1500		6	—	—	—	—	5.58	3.39

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



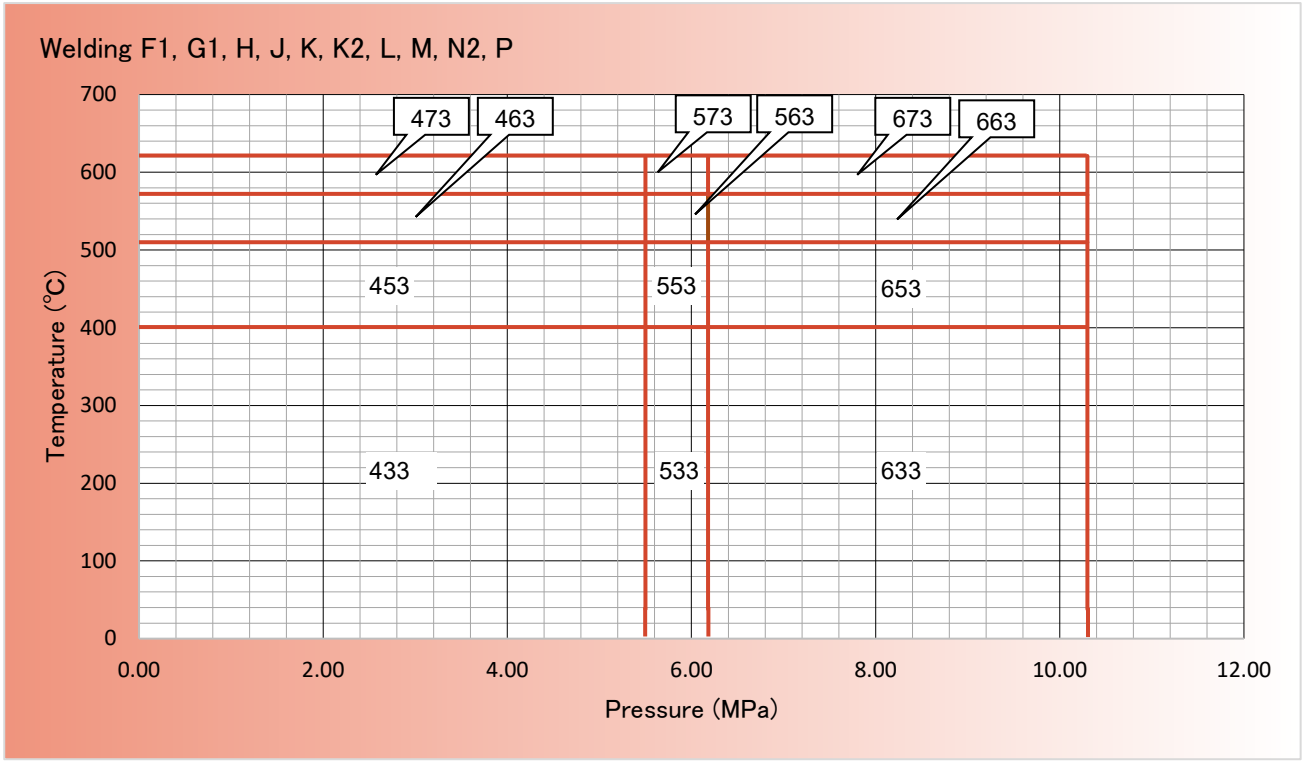
Pressure-temperature Rating SL ASME B16.5 Flange Orifice T										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature T °C	38	232	400	510	571	621
		Inlet	Outlet	*1 \ *2	3			5	6	7
WCB	T	600	150	4	3.40	3.40	3.40	—	—	—
WC6		600	150	4	—	—	3.40	3.40	—	—
WC9		600	150	4	—	—	—	3.40	2.20	—
C12A		600	150	4	—	—	—	—	2.20	1.34

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



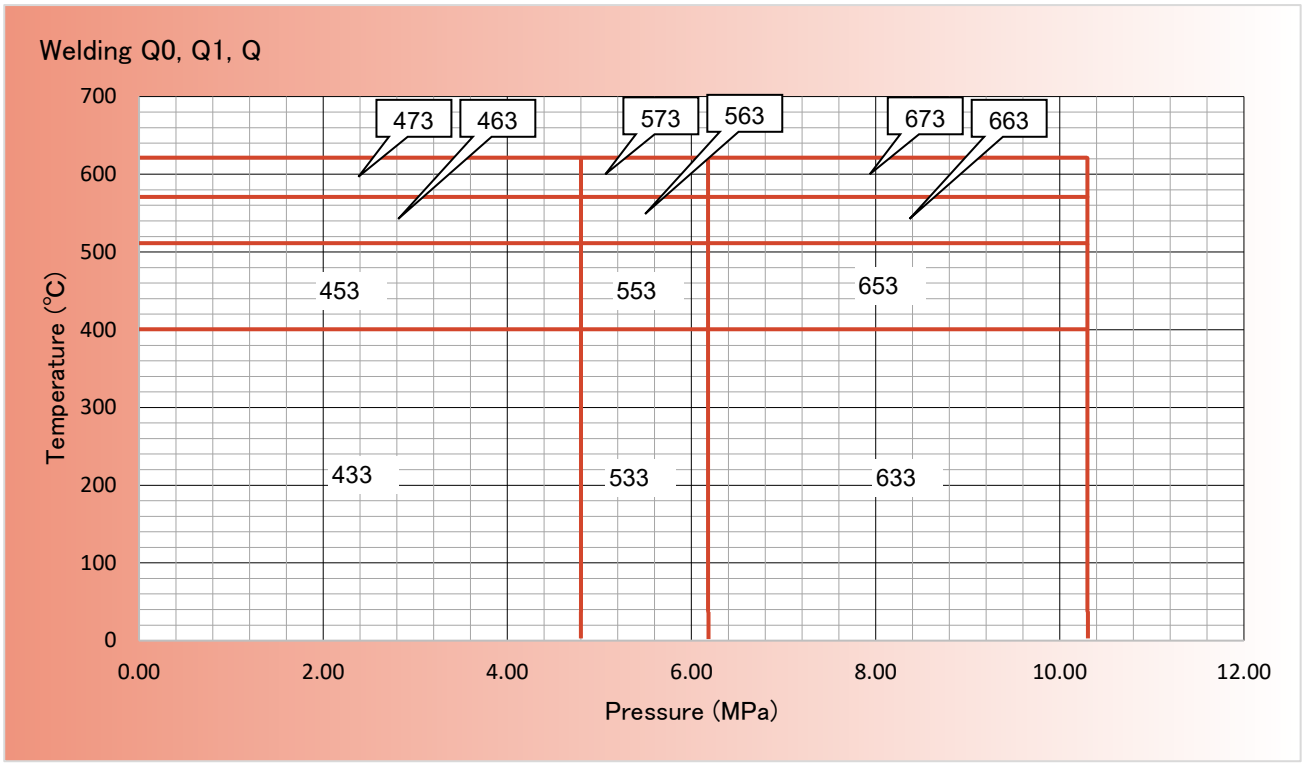
Pressure-temperature Rating SL Welding Orifice F1, G1, H, J, K, K2, L, M, N2, P											
Body material	Size	Flange class		Maximum pressure limit MPa							
				Temperature T °C	38	232	400	510	571	621
		Inlet	Outlet	*1 \ *2	3			5	6	7
WCB	P	600	150	4	5.50	5.50	5.50	—	—	—
		900		5	6.18	6.18	6.18	—	—	—
		1500		6	10.3	10.30	10.30	—	—	—
WC6		600	150	4	—	—	5.50	5.50	—	—
		900		5	—	—	6.18	6.18	—	—
		1500		6	—	—	10.30	10.30	—	—
WC9		600	150	4	—	—	—	5.50	5.50	—
		900		5	—	—	—	6.18	6.18	—
		1500		6	—	—	—	10.30	10.30	—
C12A		600	150	4	—	—	—	—	5.50	5.50
		900		5	—	—	—	—	6.18	6.18
		1500		6	—	—	—	—	10.30	10.30

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



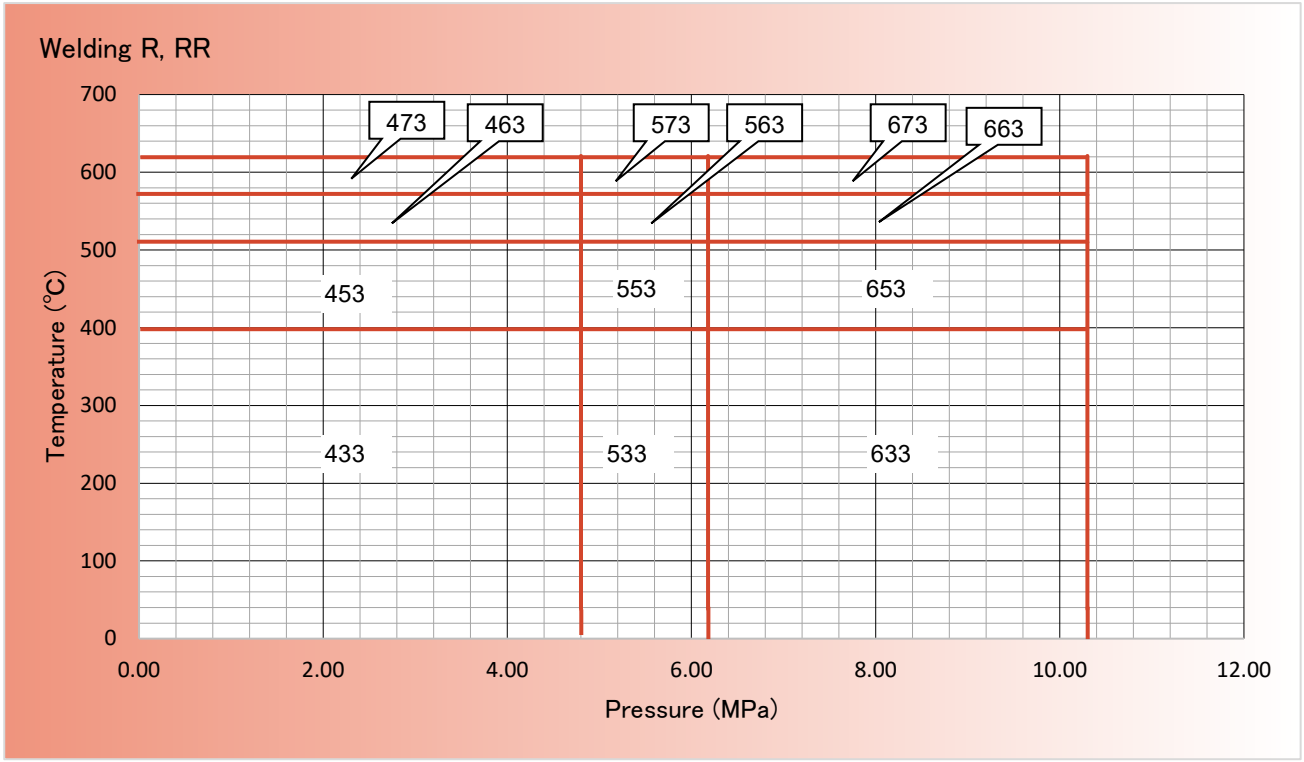
Pressure-temperature Rating SL Welding Orifice Q0, Q1, Q											
Body material	Size	Flange class		Maximum pressure limit MPa							
				Temperature T °C	38	232	400	510	571	621
		Inlet	Outlet	*1 \ *2	3			5	6	7
WCB	P	600	150	4	4.80	4.80	4.80	—	—	—
		900		5	6.18	6.18	6.18	—	—	—
		1500		6	10.3	10.30	10.30	—	—	—
WC6		600	150	4	—	—	4.80	4.80	—	—
		900		5	—	—	6.18	6.18	—	—
		1500		6	—	—	10.30	10.30	—	—
WC9		600	150	4	—	—	—	4.80	4.80	—
		900		5	—	—	—	6.18	6.18	—
		1500		6	—	—	—	10.30	10.30	—
C12A		600	150	4	—	—	—	—	4.80	4.80
		900		5	—	—	—	—	6.18	6.18
		1500		6	—	—	—	—	10.30	10.30

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

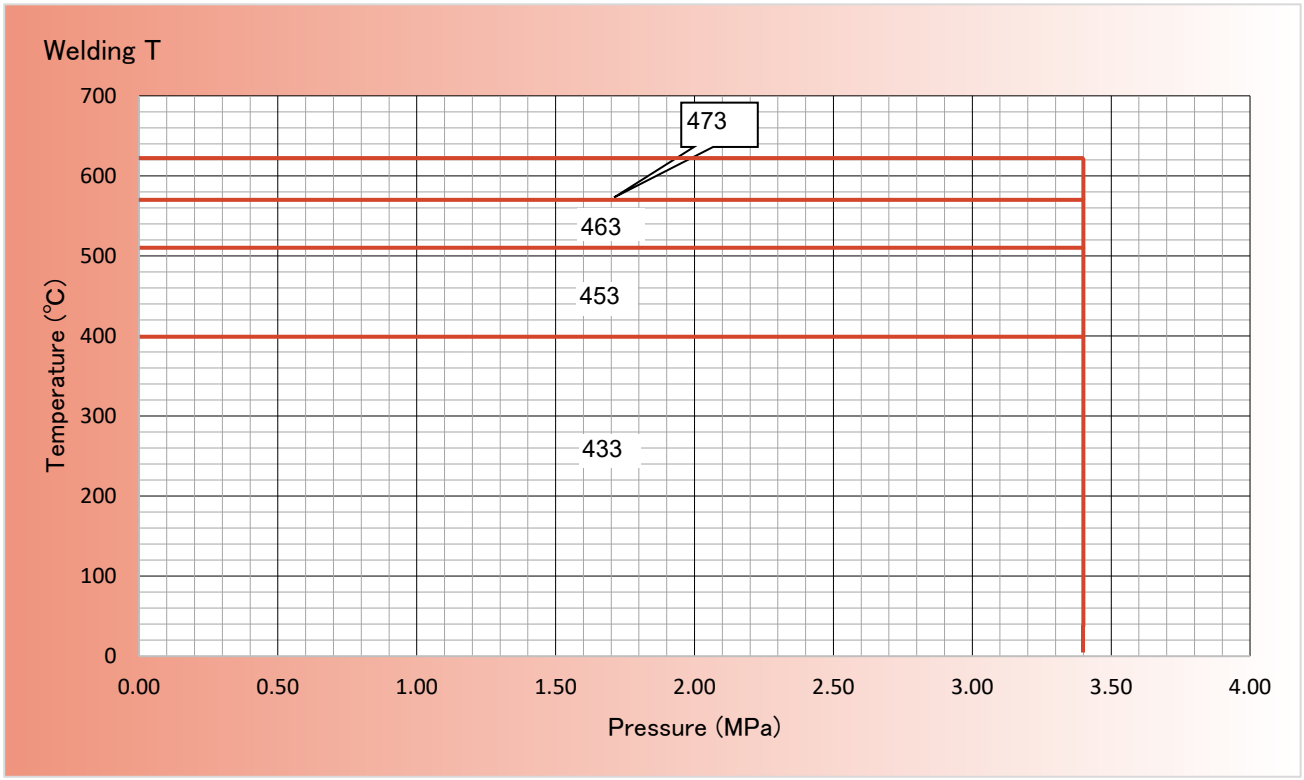


Pressure-temperature Rating SL Welding Orifice R, RR											
Body material	Size	Flange class		Maximum pressure limit MPa							
				Temperature T °C	38	232	400	510	571	621
		Inlet	Outlet	*1 \ *2	3			5	6	7
WCB	P	600	150	4	4.80	4.80	4.80	—	—	—
		900		5	5.49	5.49	5.49	—	—	—
		1500		6	8.23	8.23	8.23	—	—	—
WC6		600	150	4	—	—	4.80	4.40	—	—
		900		5	—	—	5.49	5.49	—	—
		1500		6	—	—	8.23	8.23	—	—
WC9		600	150	4	—	—	—	4.40	2.20	—
		900		5	—	—	—	5.49	3.55	—
		1500		6	—	—	—	8.23	5.58	—
C12A		600	150	4	—	—	—	—	2.20	1.34
		900		5	—	—	—	—	3.55	2.03
		1500		6	—	—	—	—	5.58	3.39

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

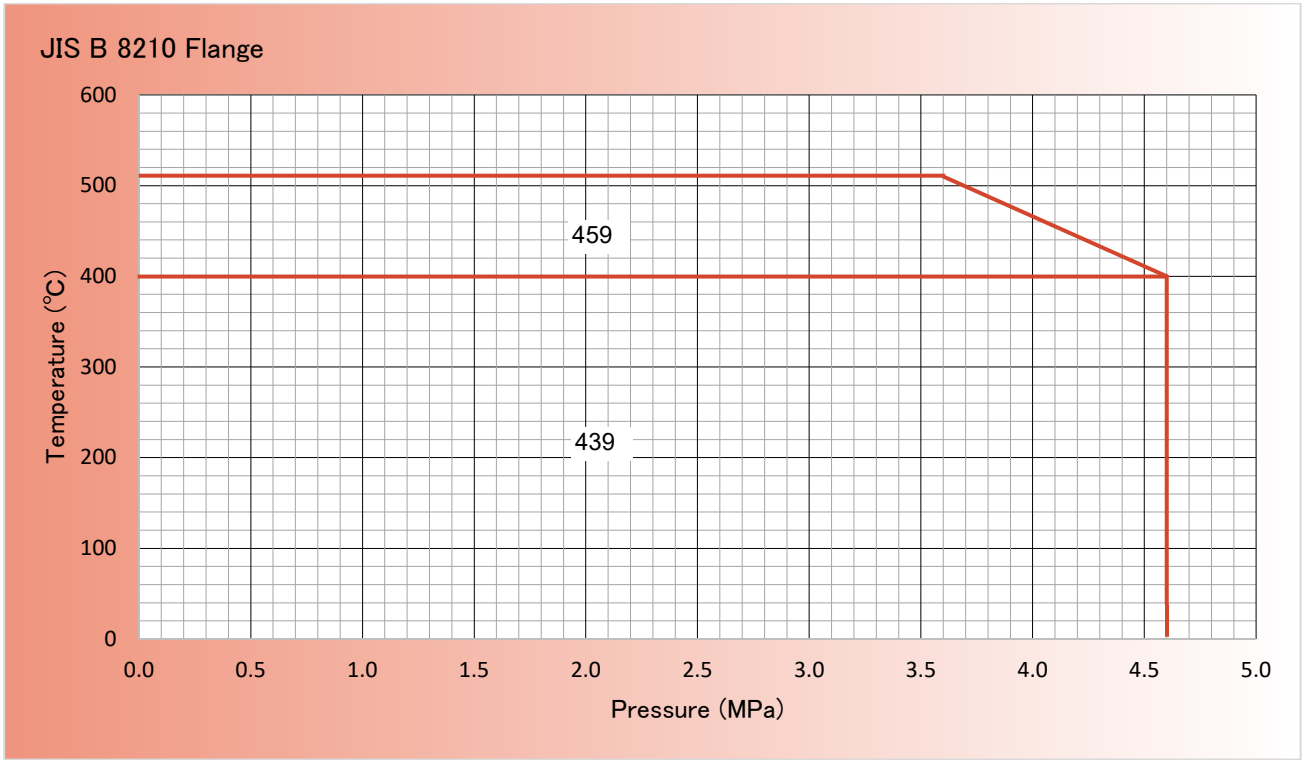


Pressure-temperature Rating SL Welding Orifice T										
Body material	Size	Flange class		Maximum pressure limit MPa						
				Temperature T °C	38	232	400	510	571	621
		Inlet	Outlet	*1 \ *2	3			5	6	7
WCB	P	600	150	4	3.40	3.40	3.40	—	—	—
WC6		600	150	4	—	—	3.40	3.40	—	—
WC9		600	150	4	—	—	—	3.40	3.40	—
C12A		600	150	4	—	—	—	—	3.40	3.40



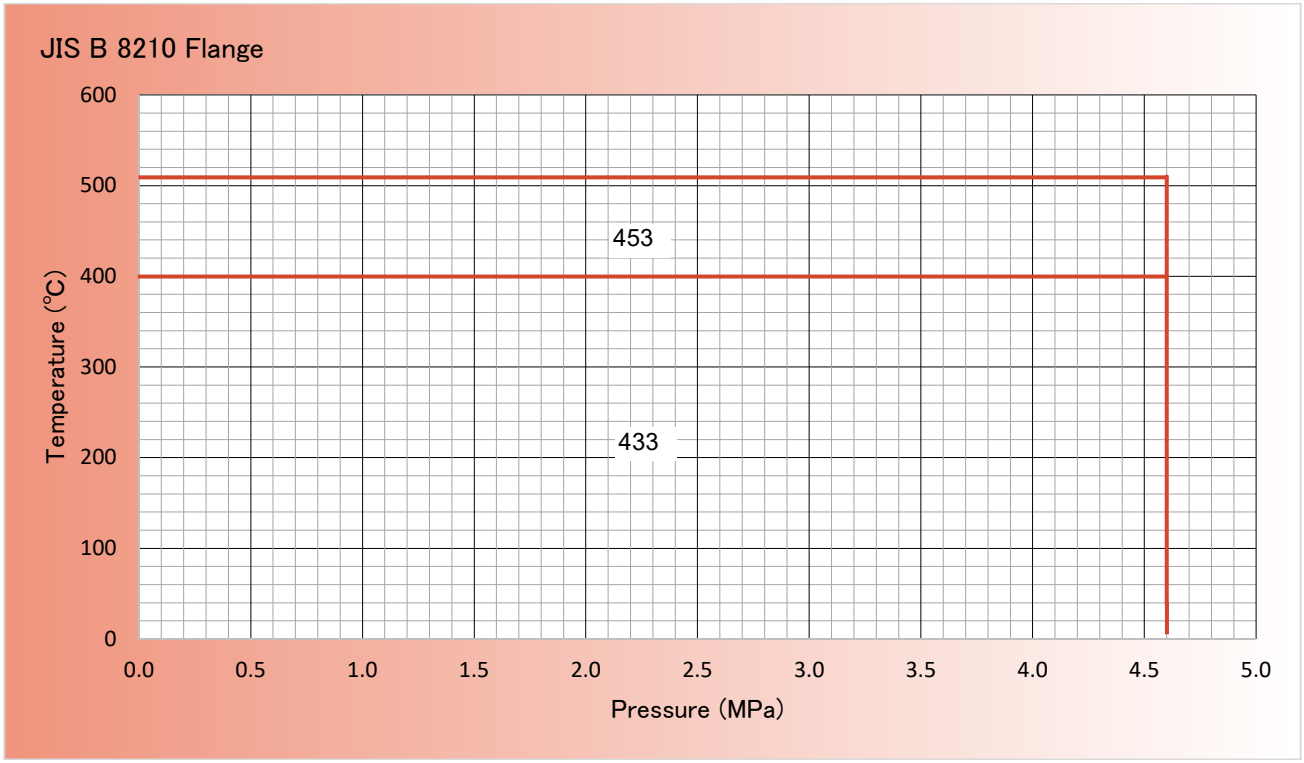
Pressure-temperature Rating SJ JIS B 8210 40K Flange								
Body material	Size	Flange class		Maximum pressure limit MPa				
				Temperature T °C	38	232	400	510
		Inlet	Outlet	*2 / *1	3			5
SCPH2	All	40K	10K	4	4.6	4.60	4.60	—
SCPH21		40K	10K	4	—	—	4.60	3.60

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

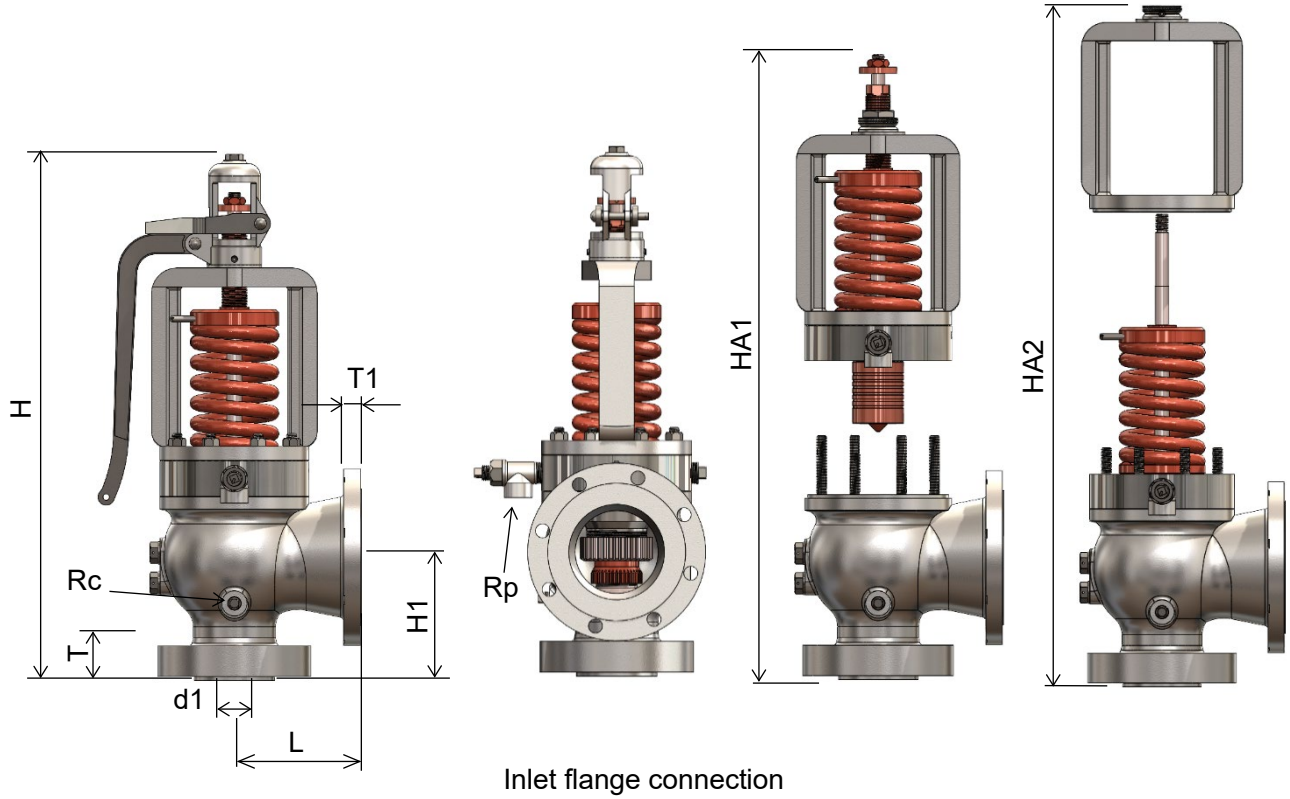


Pressure-temperature Rating SJ Welded type								
Body material	Size	Flange class		Maximum pressure limit MPa				
				Temperature T °C	38	232	400	510
		Inlet	Outlet	*1 \ *2	3			5
SCPH2	All	40K	10K	4	4.6	4.60	4.60	—
SCPH21		40K	10K	4	—	—	4.60	4.60

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



Dimensions and Weight



Inlet flange connection

SL ASME Flange Dimensions and weight Units: mm, kg

Size	Pressure class code	Flange class		Inlet diameter	Center-to-face dimension		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	
2*F1*3	4	600	150	40	140	150	38	19.1	590	710	790	1/2	3/4	90
	5	900			150		48		600	720	800			
	6	1500												
2*G1*3	4	600	150	40	140	150	38	19.1	590	710	790	1/2	3/4	90
	5	900			150		48		600	720	800			
	6	1500												
2*H*3	4	600	150	40	140	150	38	19.1	590	710	790	1/2	3/4	90
	5	900			150		48		600	720	800			
	6	1500												
2 1/2*J*4	4	600	150	50	155	180	40	24	710	830	940	1/2	3/4	120
	5	900			170		55		720	850	960			
	6	1500												

SL ASME Flange Dimensions and weight Units: mm, kg

Size	Pressure class code	Flange class		Inlet diameter	Center-to-face dimension		Flange thickness		Overall length	Disassembly height		Thread		Approximate weight
		Inlet	Outlet	d1	H1	L	Inlet T	Outlet T1	H	Dual partitioning HA1	Full disassembly HA2	Drain Rc	Needle Rp	
2 1/2*K*6	4	600	150	65	185	190	43	26	750	890	980	1/2	3/4	135
	5	900			200		58		760	920	1000			
	6	1500							870	970	1150			140
3*K2*6	4	600	150	65	185	200	43	26	820	990	1100	1/2	1	150
	5	900			195		53		830	1000	1110			
	6	1500			210		68		970	1080	1280			170
3*L*6	4	600	150	80	185	200	43	26	820	990	1100	1/2	1	150
	5	900			195		53		830	1000	1110			
	6	1500			210		68		970	1090	1290			170
4*M*6	4	600	150	80	215	220	53	26	940	1110	1250	1/2	1	185
	5	900			230		68		950	1130	1270			
	6	1500							1060	1190	1420			210
4*M2*6	4	600	150	80	215	220	53	26	940	1110	1250	1/2	1	185
	5	900			230		68		950	1130	1270			
	6	1500							1060	1190	1420			210
4*N2*6	4	600	150	100	230	240	60	26	1020	1230	1390	1/2	1	265
	5	900			250		80		1040	1250	1410			
	6	1500							1250	1390	1700			350
6*P*8	4	600	150	100	260	265	60	29	1230	1450	1670	1/2	1 1/4	450
	5	900			290		90		1260	1480	1700			
	6	1500							1420	1590	1950			570
6*Q0*8	4	600	150	150	260	265	60	29	1240	1490	1690	3/4	1 1/4	550
	5	900			290	265	90		1270	1520	1720			
	6	1500							1430	1630	1970			650
6*Q1*8	4	600	150	150	270	280	60	29	1340	1620	1880	3/4	1 1/4	580
	5	900			300		90		1370	1650	1910			
	6	1500							1570	1790	2180			700
6*Q*8	4	600	150	150	280	290	60	29	1370	1660	1900	3/4	1 1/4	600
	5	900			310		90		1400	1690	1930			
	6	1500							1590	1830	2200			850

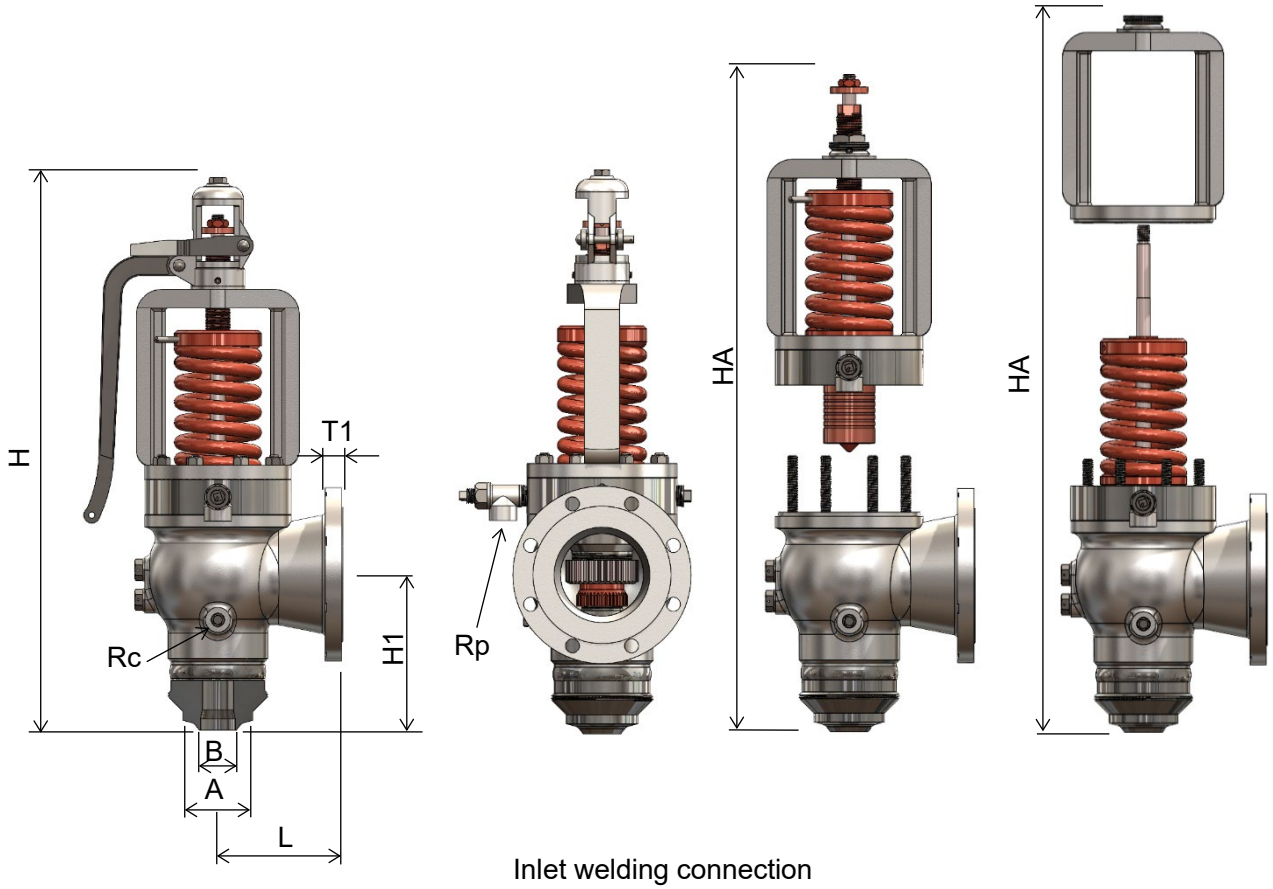
SL ASME Flange Dimensions and weight Units: mm, kg

Size	Pressure class code	Flange class		Inlet diameter	Center-to-face dimension		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	
6*Q*10	4	600	150	150	280	290	60	31	1370	1660	1900	3/4	1 1/4	650
	5	900			310		90		1400	1690	1930			
	6	1500							1590	1830	2200			900
8*R*10	4	600	150	150	330	320	69	31	1540	1890	2150	3/4	1 1/4	850
	5	900			345		84		1550	1900	2160			
	6	1500			360		99		1750	2040	2440			1100
8*RR*10	4	600	150	150	330	320	69	31	1540	1890	2150	3/4	1 1/4	850
	5	900			345		84		1550	1900	2160			
	6	1500			360		99		1750	2040	2440			1100
8*T*12	4	600	150	200	350	350	68	32	1670	2100	2350	3/4	1 1/4	1000

SJ JIS Flange Dimensions and weight Units: mm, kg

Size	Pressure class code	Flange class		Inlet diameter	Center-to-face dimension		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*19*50	4	40K*1	10K*2	25	110	125	30	16	480	570	600	1/2	1/2	45
32*24*65				32	130	140	34	18	500	600	620	1/2	1/2	60
40*30*80				40	140	150	38	19.1	590	710	790	1/2	3/4	90
50*38*100				50	155	180	40	24	710	840	940	1/2	3/4	120
65*49*150				65	195	200	53	26	830	1000	1110	1/2	1	150
80*56*150				80	215	220	53	26	940	1110	1250	1/2	1	185
90*65*150				90	230	240	60	26	1020	1230	1390	1/2	1	270
100*73*200				100	260	265	60	29	1230	1450	1670	1/2	1 1/4	450
125*82*200				115	260	265	60	29	1240	1490	1690	3/4	1 1/4	550
125*88*200				125	270	280	60	29	1340	1620	1880	3/4	1 1/4	600
150*105*250				150	330	320	69	31	1540	1880	2150	3/4	1 1/4	650

*1 JIS B 8210 - 1994 Flange
*2 JIS B 2210 Flange



Inlet welding connection

SL BW Dimensions and weight Units: mm, kg

Size	Pressure class code	Connection		Thinning diameter	Temperature °C				Center-to-face dimension		Flange thickness	Overall length	Disassembly height		Thread		Approximate weight
		Inlet	Outlet		400	510	571	621					Dual partitioning	Full disassembly	Drain	Needle	
				B	A				H1	L	T1	H	HA1	HA2	Rc	Rp	
1 1/2*F1*3	4	BW	150	42	67			70	170	150	19.1	620	740	820	1/2	3/4	80
	5				70			80									
	6				80			86									
1 1/2*G1*3	4	BW	150	42	67			70	170	150	19.1	620	740	820	1/2	3/4	80
	5				70			80									
	6				80			86									
1 1/2*H*3	4	BW	150	42	67			70	170	150	19.1	620	740	820	1/2	3/4	80
	5				70			80									
	6				80			86									
2*J*4	4	BW	150	52	80			81	195	180	24	750	870	980	1/2	3/4	100
	5				83			90									
	6				90	96		102									
2 1/2*K*6	4	BW	150	67	92			101	235	190	26	800	940	1030	1/2	3/4	120
	5				102			110									
	6				108	115		128				900	1010	1190			

SL BW Dimensions and weight Units: mm, kg

Size	Pressure class code	Connection		Thinning diameter	Temperature °C				Center-to-face dimension		Flange thickness	Overall length	Disassembly height		Thread		Approximate weight
		Inlet	Outlet		400	510	571	621					Dual partitioning	Full disassembly	Drain	Needle	
				B	A				H1	L	T1	H	HA1	HA2	Rc	Rp	
2 1/2*K2*6	4	BW	150	67	93	98	110		250	200	26	880	1050	1170	1/2	1	130
	5				102		115										
	6				120		140					1010	1120	1320			150
3*L*6	4	BW	150	82	105	109	122		250	200	26	880	1050	1170	1/2	1	130
	5				108	113	126										
	6				124	131	152					1010	1130	1330			150
3*M*6	4	BW	150	82	111	116	130		260	220	26	980	1160	1300	1/2	1	175
	5				117	120	135										
	6				137	140	163					1090	1220	1450			200
3*M2*6	4	BW	150	82	111	116	130		260	220	26	980	1160	1300	1/2	1	175
	5				117	120	135										
	6				137	140	163					1090	1220	1450			200
4*N2*6	4	BW	150	102	140		149		265	240	26	1060	1260	1420	1/2	1	250
	5				146		154										
	6				160		184					1270	1410	1720			320
4*P*8	4	BW	150	102	146		160		310	265	29	1280	1500	1720	1/2	1 1/4	400
	5				156		168										
	6				170	172	199					1440	1610	1970			520
6*Q0*8	4	BW	150	152	203		210		330	265	29	1310	1560	1760	3/4	1 1/4	500
	5				200		210										
	6				200	206	233					1470	1670	2010			600
6*Q1*8	4	BW	150	152	203		210		340	280	29	1410	1690	1950	3/4	1 1/4	530
	5				210		222										
	6				205	216	242					1610	1830	2220			650
6*Q*8	4	BW	150	152	203		210		360	290	29	1450	1740	1980	3/4	1 1/4	550
	5				210		222										
	6				210	220	251					1640	1880	2250			800
6*Q*10	4	BW	150	152	203		210		360	290	31	1450	1740	1980	3/4	1 1/4	600
	5				210	210	222										
	6				210	220	251					1640	1880	2250			850

SL BW Dimensions and weight Units: mm, kg

Size	Pressure class code	Connection		Thinning diameter	Temperature °C				Center-to-face dimension		Flange thickness	Overall length	Disassembly height		Thread		Approximate weight
		Inlet	Outlet		400	510	571	621					Dual partitioning	Full disassembly	Drain	Needle	
				B	A				H1	L	T1	H	HA1	HA2	Rc	Rp	
6*R*10	4	BW	150	152	210		232		400	320	31	1610	1960	2220	3/4	1 1/4	800
	5				216		240										
	6				215	224	254					1790	2080	2480			1050
6*RR*10	4	BW	150	152	210		232		400	320	31	1610	1960	2220	3/4	1 1/4	800
	5				216		240										
	6				215	224	254					1790	2080	2480			1050
8*T*12	4	BW	150	202	230		256		370	350	32	1690	2120	2370	3/4	1 1/4	950

SJ BW Dimensions and weight Units: mm, kg

Size	Pressure class code	Connection		Thinning diameter	Temperature °C		Center-to-face dimension		Flange thickness	Overall length	Disassembly height		Thread		Approximate weight
		Inlet	Outlet		510	540					Dual partitioning	Full disassembly	Drain	Needle	
				B	A		H1	L	T1	H	HA1	HA2	Rc	Rp	
25*19*50	4	BW	10K*1	27	50	56	140	125	16	510	600	630	1/2	1/2	40
32*24*65				34	60	66	155	140	18	530	630	650	1/2	1/2	50
40*30*80				42	72	78	170	150	19.1	620	740	820	1/2	3/4	80
50*38*100				52	84	93	195	180	24	750	880	980	1/2	3/4	110
65*49*150				67	100	112	250	200	26	880	1050	1170	1/2	1	135
80*56*150				82	116	124	260	220	26	980	1160	1300	1/2	1	170
90*65*150				92	128	138	265	240	26	1060	1260	1420	1/2	1	250
100*73*200				102	140	150	310	265	29	1280	1500	1720	1/2	1 1/4	400
125*82*200				127	156	166	330	265	29	1310	1560	1760	3/4	1 1/4	500
125*88*200				127	168	178	340	280	29	1410	1690	1950	3/4	1 1/4	550
150*105*250				152	195	205	400	320	31	1610	1950	2220	3/4	1 1/4	600

*1 JIS B 2210 Flange

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