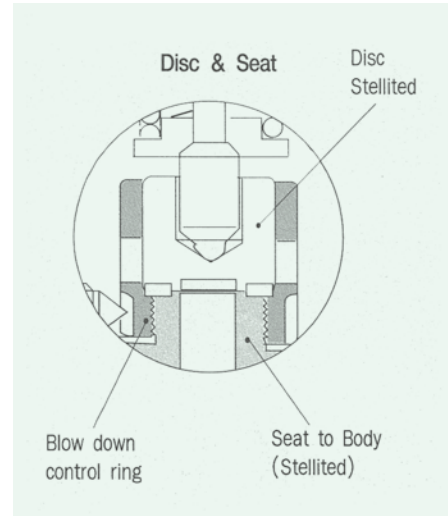
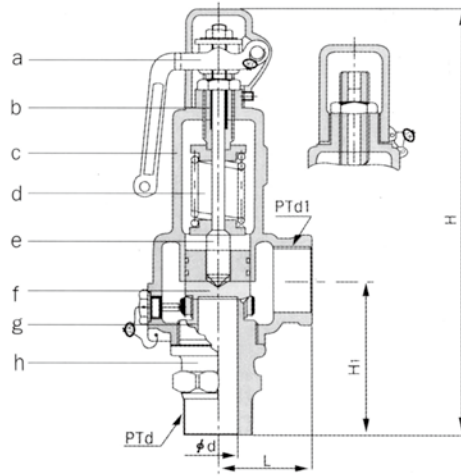
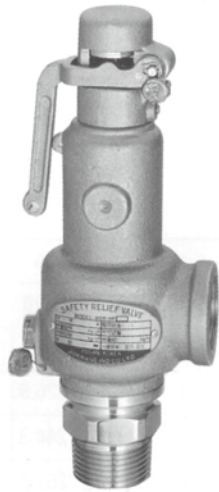


SAFETY VALVE

Model **JSV-HT41**
JSV-HT43, HT42

Lift Type Safety Valve

Screwed
Spring loaded



MATERIALS (Standard)

No	Part name	JSV-HT41	JSV-HT43	JSV-HT42
a	Cap*	Bronze		Stainless steel
b	Adjusting screw	Brass		Stainless steel
c	Bonnet	Bronze		Stainless steel, cast
d	Spring	Oil Tempered Alloy steel		
e	Stem	Stainless steel		Stainless steel
f	Disc	Stainless steel (stellite)		
g	Blow down ring	Stainless steel		Stainless steel
h	Body	Stainless steel (Seat : stellite)		

- Seat is integrated with body and its material is the same as body.
- Asterisk marked(★) cap & bonnet can be made of stainless steel for Model JSV-HT41.
- Model JSV-HT43 & HT42 are approved by High Pressure Gas Safety Corporation.

SPECIFICATIONS

JSV-HT41 for steam, air and liquids with set pressure range 0.5~1, 1~5, 5~15, 15~30kgf/cm²{0.05~0.1, 0.1~0.5, 0.5~1.5, 1.5~3.0(MPa)} at working temperature Max. 220°C.

JSV-HT43 for gas and liquid (Noncorrosive), set pressure range 0.5~1, 1~5, 5~15, 15~30kgf/cm²{0.05~0.1, 0.1~0.5, 0.5~1.5, 1.5~3.0(MPa)} at working temperature -5~150°C.

JSV-HT42 for gas and liquids (Corrosive), set pressure range 0.5~1, 1~5, 5~15, 15~30kgf/cm²{0.05~0.1, 0.1~0.5, 0.5~1.5, 1.5~3.0(MPa)} at working temperature -45~250°C.

Connection : inlet/outlet : male/female screwed PT.
At ordering, please specify the set pressure

DIMENSIONS

(mm)

Size	Inlet dia.	Seat opening dia.	Effective area (mm ²)	Lift	End to end		Height	End connection		Weight(kg)		
					L ₁	H ₁		H	PTd	PTd ₁	JSV-HT41	JSV-HT43
mm (inch)	di	ds(D)	$\pi D \ell$	ℓ	L ₁	H ₁	H	PTd	PTd ₁	JSV-HT41	JSV-HT43	JSV-HT42
15(1/2")	13	14	32.67	0.8	42	62	193	1/2"	3/4"	1.4	1.4	1.4
20(3/4")	13	14	32.67	0.8	42	64	193	3/4"	3/4"	1.5	1.5	1.6
25(1")	18	19	67.86	1.2	44	70	211	1"	1"	1.9	1.9	2.0
40(1 1/2")	25	26	172.79	2.2	57	88	269	1 1/2"	1 1/2"	3.3	3.3	3.5
50(2")	32	33	452.39	4.5	65	108	304	2"	2"	5.8	5.8	6.0

DISCHARGE CAPACITIES

for Model JSV-HT41, HT42 & HT43

Calculation of flow according to KS B 6216 for steam, air
to J.K standard for water

Symbols for fluid

- I. Air (kg/h at 20°C with 10% accumulation)
- II. Steam (kg/h at saturated with 3% accumulation)
- III. Water (m³/h at G=1 with 15% accumulation)

Set pressure (kgf/cm ²) (MPa)	Size(mm)	15A, 20A			25A			40A			50A		
	Effective area(mm ²)	32.67			67.86			172.79			452.39		
	Fluid	I	II	III	I	II	III	I	II	III	I	II	III
0.5{0.05}		31.8	21.0	0.64	66.0	43.8	1.34	168.1	111.5	3.41	440.3	292.0	8.92
0.6{0.06}		34.0	22.3	0.71	70.6	46.3	1.47	179.8	118.0	3.73	470.9	309.1	9.77
0.7{0.07}		36.2	23.5	0.76	75.2	48.9	1.58	191.5	124.6	4.03	501.5	326.3	10.55
0.8{0.08}		38.4	24.8	0.81	79.8	51.5	1.69	203.2	131.2	4.31	532.1	343.5	11.28
0.9{0.09}		40.6	26.0	0.86	84.4	54.1	1.80	214.9	137.7	4.57	562.7	360.7	11.97
1.0{0.1}		42.8	27.2	0.91	88.9	56.6	1.89	226.6	144.3	4.82	593.3	377.9	12.61
2.0{0.2}		64.9	37.9	1.29	134.8	78.8	2.68	343.4	200.7	6.81	899.2	525.6	17.84
3.0{0.3}		87.0	50.7	1.58	180.7	105.3	3.28	460.3	268.3	8.35	1205.2	702.5	21.85
4.0{0.4}		109.1	63.5	1.82	226.6	131.9	3.78	577.1	335.9	9.64	1511.1	879.4	25.23
5.0{0.5}		131.2	76.3	2.04	272.5	158.4	4.23	694.0	403.4	10.77	1817.1	1056.4	28.21
6.0{0.6}		153.3	89.0	2.23	318.4	185.0	4.64	810.9	471.0	11.80	2123.1	1233.3	30.90
7.0{0.7}		175.4	101.8	2.41	364.3	211.5	5.01	927.7	538.6	12.75	2429.0	1410.2	33.38
8.0{0.8}		197.5	114.6	2.58	410.2	238.0	5.35	1044.6	606.2	13.63	2735.0	1587.1	35.68
9.0{0.9}		219.6	127.4	2.73	456.1	264.6	5.68	1161.5	673.7	14.45	3041.0	1764.1	37.84
10.0{1.0}		241.7	140.1	2.88	502.0	291.1	5.98	1278.3	741.3	15.24	3346.9	1941.0	39.89
11.0{1.1}		263.8	152.9	3.02	547.9	317.6	6.28	1395.2	808.9	15.98	3652.9	2117.9	41.84
12.0{1.2}		285.9	165.7	3.16	593.8	344.2	6.55	1512.0	876.5	16.69	3958.9	2294.8	43.70
13.0{1.3}		308.0	178.5	3.28	639.7	370.7	6.82	1628.9	944.0	17.37	4264.8	2471.8	45.48
14.0{1.4}		330.1	191.3	3.41	685.6	397.3	7.08	1745.8	1011.6	18.03	4570.8	2648.7	47.20
15.0{1.5}		352.2	204.0	3.53	731.5	423.8	7.33	1862.6	1079.2	18.66	4876.8	2825.6	48.86
16.0{1.6}		374.3	216.8	3.64	777.4	450.3	7.57	1979.5	1146.8	19.27	5182.7	3002.5	50.46
17.0{1.7}		396.4	229.6	3.76	823.3	476.9	7.80	2096.4	1214.4	19.87	5488.7	3179.5	52.01
18.0{1.8}		418.5	242.4	3.87	869.2	503.4	8.03	2213.2	1281.9	20.44	5794.7	3356.4	53.52
19.0{1.9}		440.6	255.1	3.97	915.1	530.0	8.25	2330.1	1349.5	21.00	6100.6	3533.3	54.99
20.0{2.0}		462.7	267.9	4.07	961.0	556.5	8.46	2446.9	1417.1	21.55	6406.6	3710.2	56.42
21.0{2.1}		484.8	280.7	4.18	1006.8	583.0	8.67	2563.8	1484.7	22.08	6712.6	3887.2	57.81
22.0{2.2}		506.9	293.5	4.27	1052.7	609.6	8.88	2680.7	1552.2	22.60	7018.5	4064.1	59.17
23.0{2.3}		528.9	306.3	4.37	1098.6	636.1	9.07	2797.5	1619.8	23.11	7324.5	4241.0	60.50
24.0{2.4}		551.0	319.0	4.46	1144.5	662.7	9.27	2914.4	1687.4	23.60	7630.5	4417.9	61.80
25.0{2.5}		573.1	331.8	4.56	1190.4	689.2	9.46	3031.2	1755.0	24.09	7936.4	4594.9	63.07
26.0{2.6}		595.2	344.6	4.65	1236.3	715.7	9.65	3148.1	1822.5	24.57	8242.4	4771.8	64.32
27.0{2.7}		617.3	357.4	4.73	1282.2	742.3	9.83	3265.0	1890.1	25.04	8548.4	4948.7	65.55
28.0{2.8}		639.4	370.1	4.82	1328.1	768.8	10.01	3381.8	1957.7	25.50	8854.3	5125.7	66.75
29.0{2.9}		661.5	382.9	4.91	1374.0	795.3	10.19	3498.7	2025.3	25.95	9160.3	5302.6	67.93
30.0{3.0}		683.6	395.7	4.99	1419.9	821.9	10.36	3615.6	2092.8	26.39	9466.3	5479.5	69.09