



JV131001
Ductile Iron
Side Discharge
Safety Relief Valve
For Air, Steam & Water
Full Lift
High Capacity
Flanged
PN40* x PN16
(others on request)



The JV131001 is a economical safety relief valve for the protection of pressure systems and boiler systems.

Suitable for use with steam, gases, vapours and liquids within the chemical and processing industries.

These valve are pressure set to your requirements and issued with certification confirming the test.

Features, Benefits & Approvals

- DIN EN ISO 4126-1, AD2000-A2, TRD421
- Lloyds, GL, DNV, BV approved
- TUV SV type test approval
- Suitable for high capacities
- Side discharge
- Open lifting device, close bonnet
- Set, tested and certified prior to despatch

Pressure & Temperature

Set pressure range:-
0.2 to 40 bar**

Temperature range:-
-10°C to 350°C**

**Dependent on duty, size & temp

DN1	15	20	25	32	40	50	65	80	100	125	150	200	250
DN2	25	32	40	50	65	80	100	125	150	200	250	300	350
do	13	18	22.5	29	36	45	58.5	72	90	106	125	165	200
H	260	270	280	330	390	435	545	610	690	845	890	1105	1175
L	80	85	100	110	115	120	140	160	180	200	225	300	325
L1	90	95	105	115	140	150	170	195	220	250	285	305	340
D1	95	105	115	140	150	165	185* (185)	200	220* (235)	270	300	375	450
K1	65	75	85	100	110	125	145* (145)	160	180* (190)	220	250	320	385
K1 Holes	4x14	4x14	4x14	4x18	4x18	4x18	4x18* (8x18)	8x18	8x18* (8x22*)	8x26	8x26	12x30	12x33
b1	-	18	18	18	19	20	22	24	24	27	29	37	40
D2	115	140	150	165	185	200	220	250	285	340	405	460	520
K2	85	100	110	125	145	160	180	210	240	295	355	410	470
K2 Holes	4x14	4x18	4x18	4x18	4*18	8x18	8x18	8x18	8x22	12x22	12x26	12x26	16x26
b2	-	19	19	20	20	20	20	22	22	31	33	33	35
g	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4	G3/8	G3/8	G3/8	G3/8	G3/8	G3/8	G3/8
Weight Kg	7.5	9.5	11.5	16	22.5	32	47	59	93	140	180	310	470

* DN65 & DN100 - PN16 inlet as standard (PN40 option in brackets)

Materials	
Body & Bonnet	Ductile Iron (EN-JS1049)
Spindle	Stainless Steel (1.4021+QT)
Seat	Stainless Steel (1.4571)
Disc	Stainless Steel (1.4122+QT)
Spring	Steel (1.8159)

JV131001 Capacity Charts/Sizing

SATURATED STEAM (kg/h) inc 10% overpressure													
Set Pressure (barg)	15	20	25	32	40	50	65	80	100	125	150	200	250
0.2	42	81	126	210	324	506	855	1295	2024	2510	3490	6937	8931
0.5	67	132	207	344	529	827	1400	2120	3310	4070	5660	10859	14204
1	100	203	317	526	811	1270	2140	3245	5070	6030	8385	15868	21306
2	164	305	477	792	1220	1900	3220	4880	7625	10125	14080	25647	36333
4	280	535	837	1390	2140	3350	5650	8570	13400	17550	24400	45676	62689
6	390	745	1165	1940	2990	4665	7890	11950	18650	24500	34050	63698	87350
8	500	957	1495	2485	3820	5980	10100	15300	23900	31350	43600	81599	11898
10	609	1165	1820	3025	4665	7290	12300	18650	29150	38250	53200	99452	136381
12	718	1375	2150	3570	5500	8590	14500	22000	34350	45100	62700	11782	160831
14	827	1580	2475	4110	6340	9900	16700	25350	39600	52000	72300	135113	185284
16	936	1790	2800	4655	7170	11200	18950	28700	44800	58800	81800	152960	209758
18	1046	2000	3130	5200	8010	12500	21150	50100	32050	65700	91400	170826	234257
20	1156	2210	3460	5750	8850	13800	23350	35400	55300	72600	10100	188724	258800
21	1210	2320	3620	6020	9250	14500	24500	37100	57900	76000	105800	197693	-
24	1375	2635	4120	6840	10500	16450	27850	42100	65900	86500	120600	224640	-
25	1431	2740	4280	7120	10950	17100	28950	43800	-	90200	125500	233648	-
26	1486	2850	4450	7390	11350	17800	30050	-	-	93700	130300	-	-
27	1541	2950	4620	7670	11820	18460	31220	-	-	96950	-	-	-
28	1597	3060	4780	7950	12250	19100	32300	-	-	-	-	-	-
32	1819	3490	5450	9060	13950	21800	36800	-	-	-	-	-	-

AIR @ 0°C (Nm³/h) inc 10% overpressure													
Set Pressure (barg)	15	20	25	32	40	50	65	80	100	125	150	200	250
0.2	49	95	148	246	380	594	1003	1520	2375	2945	4100	8150	10398
0.5	82	161	252	419	646	1009	1705	2585	4034	4970	6910	13256	17430
1	126	255	398	661	1019	1590	2690	4075	6370	7575	10530	19963	26803
2	209	388	607	1008	1550	2425	4100	6210	9700	12890	17920	32693	46314
4	362	692	1080	1800	2770	4330	7310	11080	17300	22725	31600	59135	81161
6	510	975	1520	2530	3900	6090	1033	15600	24370	31900	44400	83238	114146
8	657	1255	1965	3260	5030	7860	13280	20100	31430	41200	57300	107291	147130
10	804	1540	2400	3990	6150	9610	16250	24600	38500	50500	70200	13144	180115
12	951	1820	2845	4730	7290	11380	19240	29150	45500	59700	83100	155398	213099
14	1099	2100	3290	5460	8400	13150	22200	33650	52600	69000	96000	179451	246084
16	1246	2385	3725	6190	9540	14900	25200	38200	59600	78200	108800	203504	279069
18	1394	2670	4170	6920	10670	16650	28100	42700	66700	87500	121700	227557	312053
20	1541	2950	4610	7660	11800	18400	31150	47200	73700	96800	134600	251610	345038
21	1614	3090	4830	8020	12370	19300	32650	49400	77300	101400	141000	263637	-
25	1909	3655	570	9490	14620	22850	38600	58500	-	120000	166900	311743	-
26	1983	3800	5930	9850	15190	23730	40100	-	-	124600	173300	-	-
27	2057	3930	6160	10240	15770	24630	41650	-	-	129350	-	-	-
28	2130	4080	6370	10600	16320	25500	43100	-	-	-	-	-	-
34	2572	4925	7700	12790	19700	30800	52050	-	-	-	-	-	-
40	3014	5770	9030	14477	23810	36100	6100	-	-	-	-	-	-

WATER @ 20°C (t/h) inc 10% overpressure													
Set Pressure (barg)	15	20	25	32	40	50	65	80	100	125	150	200	250
0.2	1.63	3.28	5.13	8.53	13.1	20.5	30.8	46.7	73	94.9	132	286	390
0.5	2.60	5.19	8.12	13.5	20.8	32.5	48.8	73.9	115	150	209	452	616
1	3.68	7.35	11.5	19.1	29.4	45.9	69	104	163	212	295	639	872
2	5.20	10.4	16.2	27	41.6	64.9	97.5	148	231	300	417	903	1233
4	7.36	14.7	22.9	38.1	58.7	91.8	138	209	326	424	590	1278	1743
6	9.02	18	28.1	46.7	72	112	169	256	400	520	723	1565	2135
8	10.41	20.8	32.5	53.9	83.1	130	195	295	461	600	835	1807	2465
10	11.64	23.2	36.3	60.3	92.9	145	218	330	516	671	933	2020	2756
12	12.76	25.4	39.7	66	102	159	239	362	565	735	1022	2213	3019
14	13.78	27.5	42.9	71.3	110	172	258	391	611	794	1104	2390	3261
16	14.73	29.4	45.9	76.3	117	184	276	418	653	849	1181	2555	3486
18	15.62	31.2	48.7	80.9	125	195	293	443	692	900	1252	2710	3698
20	16.47	32.8	51.3	85.3	131	205	308	467	730	949	1320	2857	3898
21	16.87	33.7	52.6	87.4	135	210	316	479	748	973	1350	2928	-
25	18.41	36.7	57.4	95.3	147	229	345	522	-	1059	1473	3194	-
26	18.78	37.4	58.5	97.2	150	234	352	-	-	1080	1502	-	-
27	19.13	38.2	59.6	99	153	238	358	-	-	1100	-	-	-
28	19.49	38.9	60.7	101	155	243	365	-	-	-	-	-	-
34	21.47	42.8	66.9	111	171	268	400	-	-	-	-	-	-
40	23.29	46.4	72.5	124.8	185.8	289.7	435	-	-	-	-	-	-