

Model 1415 – Safety and Relief Valve

DESCRIPTION

Type	Safety and Relief valve
Connections	Flanged ASME/ANSI B16.5
Rating	ANSI 150 / 300 / 600 / 900 / 1500 / 2500
Material	Carbon Steel A216 WCB / WCC Carbon Steel A217 WC6 / WC9 Stainless Steel A351 CF-3M / CF8 Duplex A182 F51
Temperature range	-196°C to +540°C

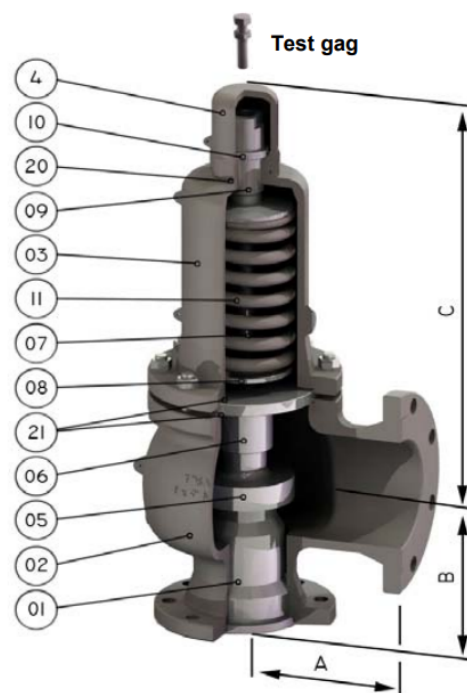
REQUIREMENTS

Calculation	API RP 520
Design / Size	API STD 526, ASME Section VIII
Materials	EN / ASTM / ASME
Inspection	EN-4126-1/7, API STD 527, MSS-SP-55
Tolerances	EN-4126-1, ASME UG-126

CONSTRUCTION AND MATERIALS

Item	Description	Material		
		Carbon steel	Stainless steel	DUPLEX
1	Nozzle	AISI-316L	AISI-316L	EN 1.4462
2	Body	A216 WCB	A351 CF3M	EN 1.4462
3	Bonnet	A216 WCB	A351 CF3M	EN 1.4462
4	Cap	A351 CF8	A351 CF8	EN 1.4462
5	Disc	AISI-316L	AISI-316L	EN 1.4462
6	Guide	AISI-316L	AISI-316L	EN 1.4462
7	Push Rod	AISI-316L	AISI-316L	EN 1.4462
8	Spring Button	AISI-303	AISI-303	EN 1.4462
9	Adjusting Screw	AISI-420	AISI-303	EN 1.4462
10	Lock Nut	AISI-303	AISI-303	EN 1.4462
11	Spring	1.8159 C. S.	AISI-302	Inconel X 750
12	Lever	A351 CF8	A351 CF8	A351 CF8
17	Release nut	AISI-304	AISI-304	AISI-304
18	Lever axis	AISI-303	AISI-303	AISI-303
19	Packing lever axis	AISI-303	AISI-303	AISI-303
20	Gasket cap	PTFE	PTFE	PTFE
21	Gasket bonnet	Graphite + S.S.	Graphite + S.S.	Graphite + S.S.
22	Gasket pack. lever	Viton	Viton	Viton
27	Bellows	AISI-316 TI	AISI-316 TI	AISI-316 TI
28	Soft seat	Viton / PTFE	Viton / PTFE	Viton / PTFE

Recommended spare parts



Options

Lifting device



Sealed packing lever



Open bonnet



Soft seat



Bellows



Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg; With bellows 2 barg
Seat	metal-metal, PTFE, Viton and Stellite
Overpressure	10% for steam, gas and vapour 21% for fire exposure, 25% for liquids
Blowdown	10%
Tolerance Set pressure	± 3%

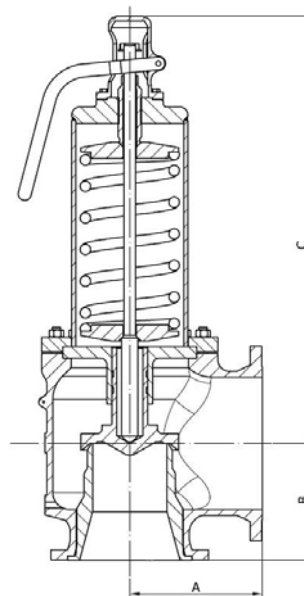
Requirements

Calculation	API RP 520
Design / Size	API STD 526, ASME Section VIII
Materials	EN / ASTM / ASME
Inspection	EN-4126-1/7 API 527 MSS-SP55
Tolerances	EN-4126-1 and ASME UG-126

DIMENSIONS

DN		Flanges / Rating		Orifice			Sizes			Weight
Inlet ["]	Outlet ["]	Inlet [#]	Outlet [#]	Letter	Ø [mm]	Area [mm ²]	A [mm]	B [mm]	C [mm]	[Kg]
1/2"	1"	150	150	D / E	9,5 / 13	71 / 133	95	95	275	10
3/4"	1"	150	150	D / E	9,5 / 13	71 / 133	95	95	275	10
1"	1"	150	150	D / E	9,5 / 13	71 / 133	95	95	275	10
1/2"	1"	300	150	D / E	9,5 / 13	71 / 133	95	95	275	10
3/4"	1"	300	150	D / E	9,5 / 13	71 / 133	95	95	275	10
1"	1"	300	150	D / E	9,5 / 13	71 / 133	95	95	275	10
1/2"	1"	600	150	D / E	9,5 / 13	71 / 133	95	100	275	11
3/4"	1"	600	150	D / E	9,5 / 13	71 / 133	95	100	275	11
1"	1"	600	150	D / E	9,5 / 13	71 / 133	95	100	275	11
1"	2"	150	150	D / E	9,5 / 13	71 / 133	114	105	275	14
1"	2"	300	150	D / E	9,5 / 13	71 / 133	114	105	275	16
1"	2"	600	150	D / E	9,5 / 13	71 / 133	114	105	275	18
1 1/2"	2"	900	300	D / E	9,5 / 13	71 / 133	140	105	315	19
1 1/2"	2"	1500	300	D / E	9,5 / 13	71 / 133	140	105	315	24
1 1/2"	3"	2500	300	D / E	9,5 / 13	71 / 133	178	140	325	30
1 1/2"	2"	150	150	F	16	201	121	124	315	17
1 1/2"	2"	300	150	F	16	201	121	124	315	17
1 1/2"	2"	600	150	F	16	201	152	124	315	20
1 1/2"	3"	900	300	F	16	201	165	124	315	22
1 1/2"	3"	1500	300	F	16	201	165	124	315	22
1 1/2"	3"	2500	300	F	16	201	178	140	325	30
1 1/2"	3"	150	150	G	21	346	121	124	400	26
1 1/2"	3"	300	150	G	21	346	121	124	400	26
1 1/2"	3"	600	150	G	21	346	152	124	400	28
1 1/2"	3"	900	300	G	21	346	165	124	430	28
2"	3"	1500	300	G	21	346	175	156	444	50
2"	3"	2500	300	G	21	346	175	156	444	50
1 1/2"	3"	150	150	H	26	531	124	130	400	25
1 1/2"	3"	300	150	H	26	531	124	130	400	25
2"	3"	300	150	H	26	531	124	130	400	27
2"	3"	600	150	H	26	531	162	154	400	32
2"	3"	900	150	H	26	531	162	154	400	32
2"	3"	1500	300	H	26	531	162	154	430	35
2"	3"	150	150	J	32,5	830	124	137	400	28
2"	3"	300	150	J	32,5	830	124	137	400	29
3"	4"	300	150	J	32,5	830	181	184	595	56
3"	4"	600	150	J	32,5	830	181	184	595	62
3"	4"	900	150	J	32,5	830	181	184	595	62
3"	4"	1500	300	J	32,5	830	181	184	595	65
3"	4"	150	150	K	40	1195	162	156	595	56
3"	4"	300	150	K	40	1195	162	156	595	56
3"	4"	600	150	K	40	1195	181	184	595	62
3"	6"	900	150	K	40	1195	216	198	610	90
3"	6"	1500	300	K	40	1195	216	198	610	105
3"	4"	150	150	L	49	1866	165	156	595	56
3"	4"	300	150	L	49	1866	165	156	595	56
4"	6"	300	150	L	49	1866	181	179	630	56
4"	6"	600	150	L	49	1866	203	179	630	90
4"	6"	900	150	L	49	1866	222	197	820	120
4"	6"	1500	150	L	49	1866	222	197	820	120
4"	6"	150	150	M	55	2376	184	178	630	88
4"	6"	300	150	M	55	2376	184	178	630	90
4"	6"	600	150	M	55	2376	203	178	630	110
4"	6"	900	150	M	55	2376	222	197	690	120

DN		Flanges / Rating		Orifice			Sizes			Weight
Inlet ["]	Outlet ["]	Inlet [#]	Outlet[#]	Letter	Ø [mm]	Area [mm ²]	A [mm]	B [mm]	C [mm]	[Kg]
4"	6"	150	150	N	60	2827	210	197	630	88
4"	6"	300	150	N	60	2827	210	197	630	90
4"	6"	600	150	N	60	2827	222	197	630	110
4"	6"	900	150	N	60	2827	222	197	820	120
4"	6"	150	150	P	73	4185	229	181	630	88
4"	6"	300	150	P	73	4185	229	181	630	90
4"	6"	600	150	P	73	4185	254	225	630	120
4"	6"	900	150	P	73	4185	254	225	630	120
6"	8"	150	150	Q	96	7238	241	240	690	140
6"	8"	300	150	Q	96	7238	241	240	690	140
6"	8"	600	150	Q	96	7238	241	240	690	190
6"	8"	150	150	R	115	10387	241	240	690	140
6"	8"	300	150	R	115	10387	241	240	690	140
6"	10"	300	150	R	115	10387	267	240	795	198
6"	10"	600	150	R	115	10387	267	240	795	198
8"	10"	150	150	T	147	16972	279	276	800	210
8"	10"	300	150	T	147	16972	279	276	800	220
8"	10"	150	150	U	165	16972	279	276	795	190
8"	10"	300	150	U	165	16972	279	276	795	195
10"	14"	150	150	V	200	31415	406	305	1390	750
10"	14"	300	150	V	200	31415	406	305	1390	750
12"	16"	150	150	W	228	40828	406	305	1432	850
12"	16"	300	150	W	228	40828	406	305	1432	850
16"	20"	150	150	X	304	72950	304	432	1943	1850
16"	20"	300	150	X	304	72950	304	432	1943	1850



Design for size > 8"

OPTIONAL ACCESORIES

Specials springs



Carbon steel	120°C
Chrome vanadium	219°C
S.S. AISI 302	260°C
Inconel X-750	500°C

Lift indicator



Proximity switch and valve position indicator. inductive prox 3-wire switching type

Supply voltage 20 to 264 VAC, 50/60 Hz.

Enclosure ratings IEC 144 IP67, option Eex / ATEX.

Heating jacket



Areas of application are system to be protected from media tendency to crystallize.

Material: S.S. AISI-316L.

Nozzle ring / Blowdown ring



To help the control flow capacity. Adjustable blowdown



Disclaimer

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