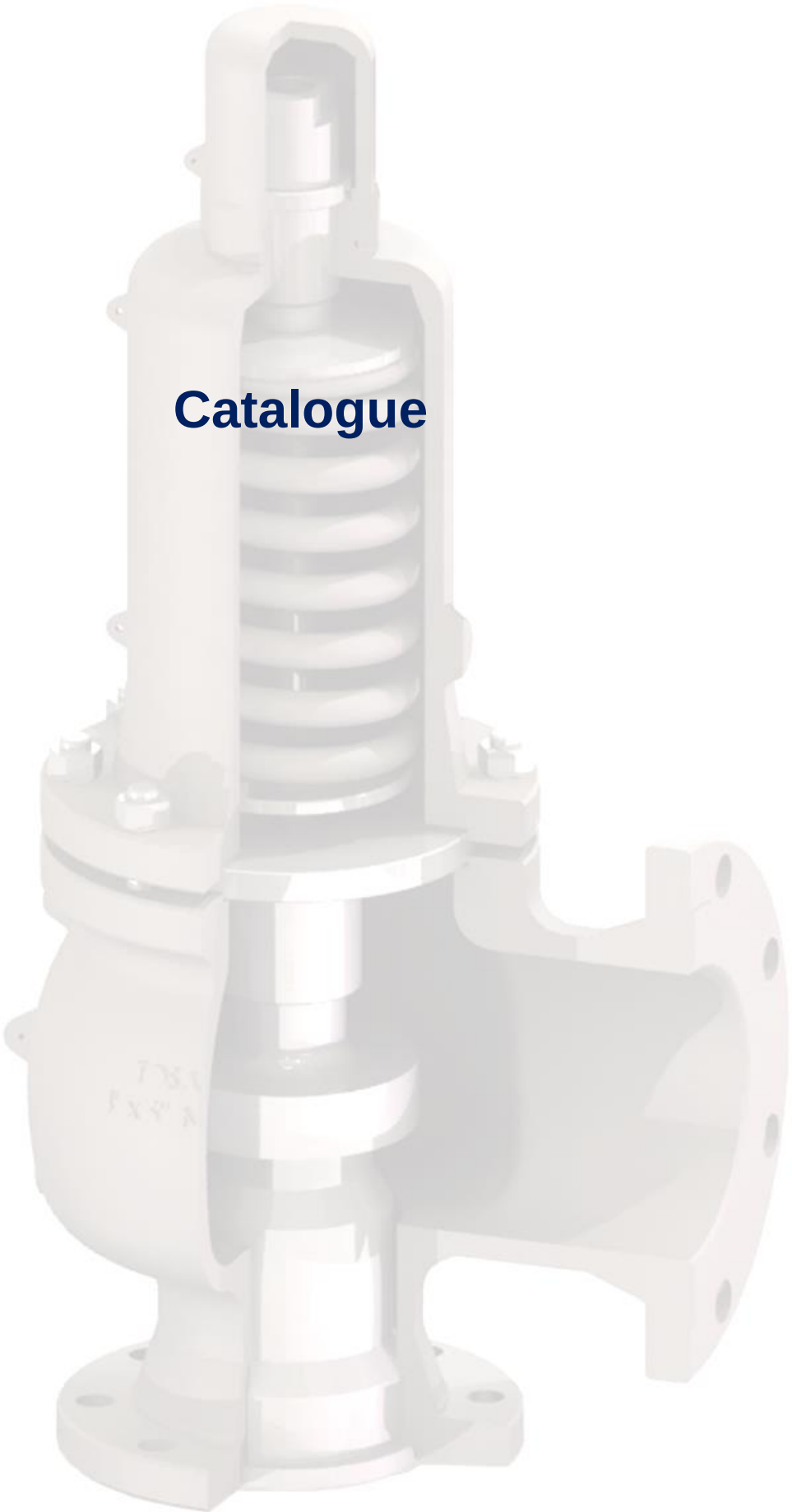
TOSACA

Catalogue

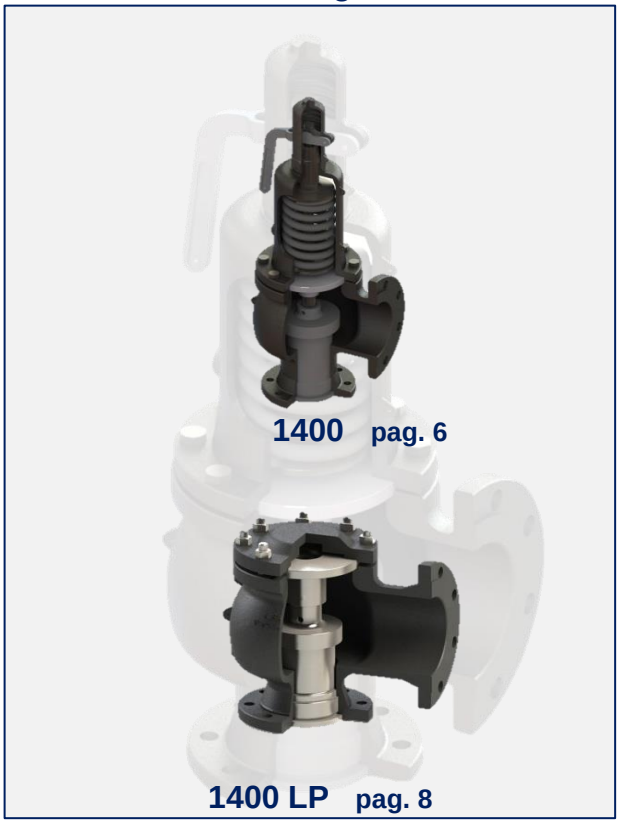


2016-1

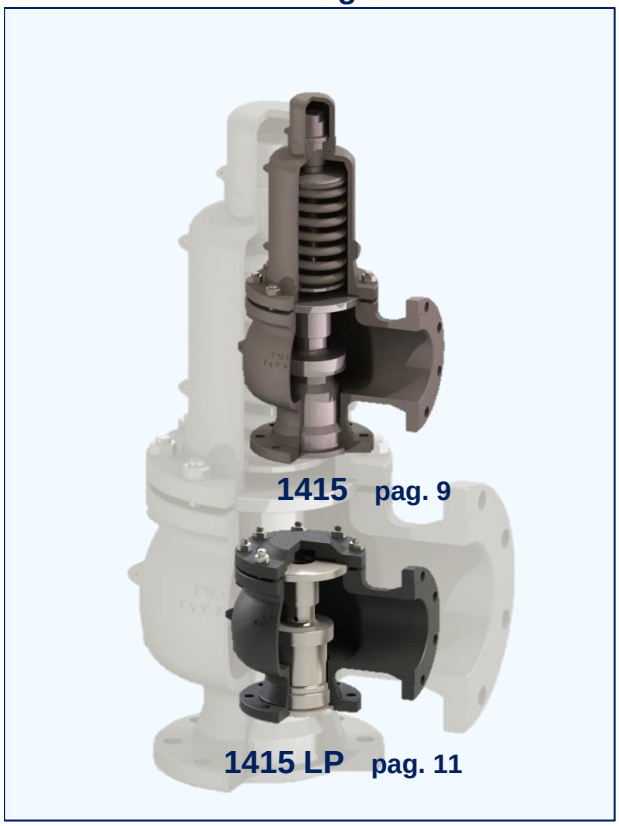
INDEX / INDICE

1216

1400 EN/DIN flanges



1415 ASME flanges



Accesories

TOSACA

Model 1216

Description

Type	Safety and Relief valve		
Connections / Rating	Threaded BSP / NPT	PN-40	
Material	Stainless steel 316 L	Temperature range -20 to +350ºC	Cryogenic service until -196ºC

Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg
Overpressure	10%
Blowdown	Gases 10%, liquids 20%
Tolerance Set pressure	± 3%

Requirements

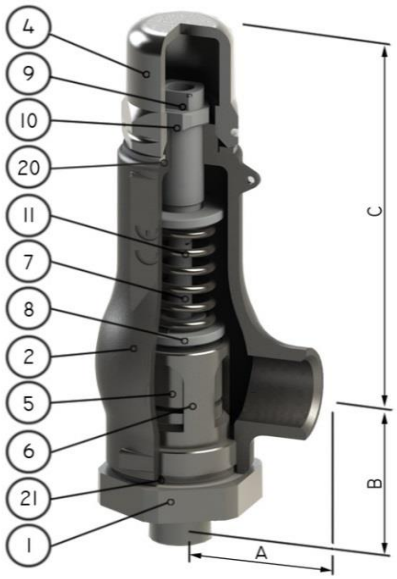
Calculation	EN-4126-1 / 7
Design	EN-12516-1, EN-4126-1 / 7
	DIN 259 and ANSI B2.1
Materials	EN
Inspection	EN-4126-1 / 7

Construction and materials

Item	Description	Material Standard	Material Cryogenic
1	Nozzle	A351 CF-3M	A351 CF-3M
2	Body	A351 CF-3M	A351 CF-3M
4	Cap	A351 CF-8	A351 CF-8
5	Disc	AISI-316L	AISI-316L
6	Guide	A351 CF-3M	A351 CF-3M
7	Push Road	AISI-316L	AISI-316L
8	Spring Button	AISI-303	AISI-303
9	Ajusting Screw	AISI-303	AISI-303
10	Tensor Nut	AISI-303	AISI-303
11	Spring	AISI-302	17 / 7PH
12	Lever	A351 CF-8	A351 CF-8
17	Release nut	AISI-316	AISI-316
18	Lever axis	AISI-303	AISI-303
19	Packing lever axis	AISI-303	AISI-303
20	Gasket	PTFE	PTFE
21	Gasket	PTFE	PTFE
22	Gasket	Viton	Viton
28	Soft seat	Viton / PTFE	Metal

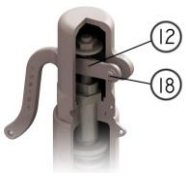
Recommended spare parts

Test gag

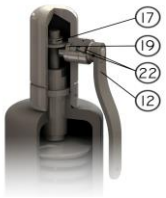


Options

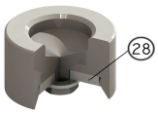
Lifting device



Sealed packing lever



Soft seat



Dimensions

	Orifice	Area (mm^2)	A (mm)	B (mm)	C (mm)	Weight (kg)
1/2" x 3/4"	13	133	45	57	155	2,2
1/2" x 1"	13	133	45	57	155	2,2
3/4" x 1"	14	154	45	57	155	2,2
1" x 1"	16	201	45	60	155	2,2
1" x 1 1/4"	16	201	45	61	155	2,3
1" x 2"	22	380	62	87	234	4,5
11/4" x 1 1/4"	18	254	45	62	155	2,4
1 1/2" x 2"	28	616	62	89	234	4,6
2" x 2"	32	804	62	93	234	5,1

TOSACA

Model 1216 HP

Description

Type	Safety and Relief valve
Connections / Rating	Threaded BSP / NPT PN-100 / 250 /400
Material	Stainless steel 316 L Temperature range -10 to +300ºC Cryogenic service until -196ºC

Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	30 barg Max. Set pressure 300 barg
Overpressure	10%
Blowdown	Gases 10%, liquids 20%
Tolerance Set pressure	± 3%

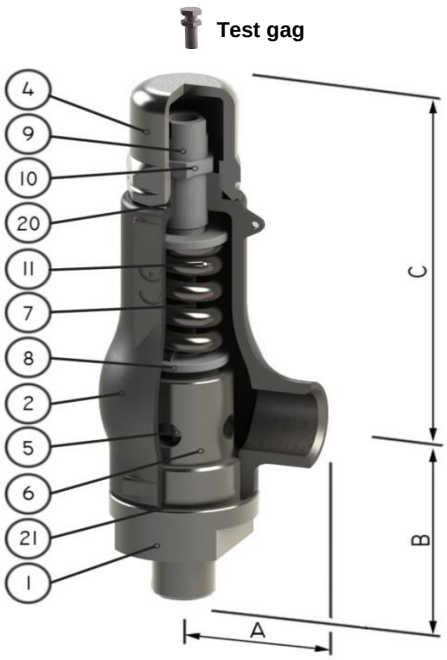
Requirements

Calculation	EN-4126-1 / 7
Design	EN-12516-1, EN-4126-1 / 7
	DIN 259 and ANSI B2.1
Materials	EN
Inspection	EN-4126-1 / 7

Construction and materials

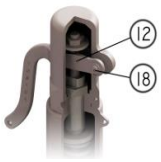
		Material	
Item	Description	Standard	Cryogenic
1	Nozzle	AISI-316L	AISI-316L
2	Body	A351 CF-3M	A351 CF-3M
4	Cap	A351 CF-8	A351 CF-8
5	Disc	17-4-PH	17-4-PH
6	Guide	AISI316L	AISI316L
7	Push Road	AISI-316L	AISI-316L
8	Spring Button	AISI-303	AISI-303
9	Ajusting Screw	AISI-303	AISI-303
10	Tensor Nut	AISI-303	AISI-303
11	Spring	INCONEL X 750	17 / 7PH
12	Lever	A351 CF8	A351 CF8
17	Release nut	AISI-316	AISI-316
18	Lever axis	AISI-303	AISI-303
19	Packing lever axis	AISI-303	AISI-303
20	Gasket	PTFE	PTFE
21	Gasket	GRAPHITE + S.S.	GRAPHITE + S.S.
22	Gasket	Viton	Viton

Recommended spare parts

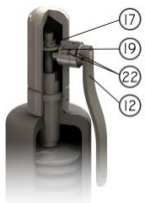


Options

Lifting device



Sealed packing lever



Dimensions

	PN	Orifice	Area (mm^2)	A (mm)	B (mm)	C (mm)	Weight (kg)
1" x 2"	PN-100	16	201	62	100	235	5
1 1/4" x 2"	PN-100	18	254	62	100	235	5
1 1/2" x 2"	PN-100	20	314	62	100	235	6
2" x 2"	PN-100	22	380	62	100	235	6,3
1/2" x 3/4"	PN-250	9	64	45	72	155	3
3/4" x 3/4"	PN-250	9	64	45	72	155	3
1" x 1"	PN-250	9	64	45	77	155	3
1/2" x 3/4"	PN-400	6	28	45	72	155	3
3/4" x 3/4"	PN-400	6	28	45	72	155	3
1" x 1"	PN-400	6	28	45	77	155	3

Model 1216 C

Description

Type	Safety and Relief valve
Connections	Clamp-Clamp or Clamp-BSP PN-10
Material	Stainless steel 316 L Temperature range -10 to +350ºC Cryogenic service until -196ºC

Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg
Overpressure	10%
Blowdown	Gases 10%, liquids 20%
Tolerance Set pressure	± 3%

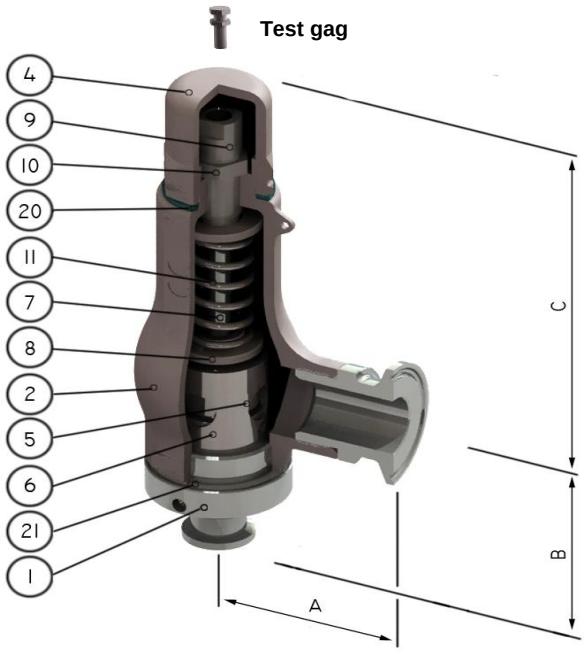
Requirements

Calculation	EN-4126-1 / 7 ISO-2852
Design	EN-12516-1, EN-4126-1 / 7
	DIN 259 and ANSI B2.1
Materials	EN
Inspection	EN-4126-1 / 7

Construction and materials

Item	Description	Material Standard	Material Cryogenic
1	Nozzle	AISI-316L	AISI-316L
2	Body	A351 CF-3M	A351 CF-3M
4	Cap	A351 CF-8	A351 CF-8
5	Disc	AISI-316L	AISI-316L
6	Guide	AISI-316L	AISI-316L
7	Push Road	AISI-316L	AISI-316L
8	Spring Button	AISI-303	AISI-303
9	Ajusting Screw	AISI-303	AISI-303
10	Tensor Nut	AISI-303	AISI-303
11	Spring	AISI-302	17 / 7PH
12	Lever	A351 CF-8	A351 CF-8
17	Release nut	AISI-316	AISI-316
18	Lever axis	AISI-303	AISI-303
19	Packing lever axis	AISI-303	AISI-303
20	Gasket	PTFE	PTFE
21	Gasket	PTFE	PTFE
22	Gasket	Viton	Viton
28	Soft seat	Viton / PTFE	Metal

Recommended spare parts

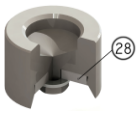


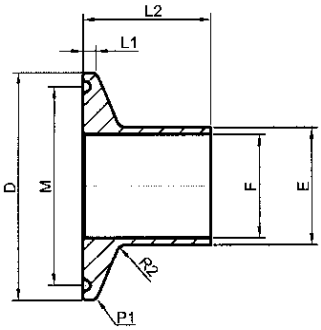
Options

Lifting device

Sealed packing lever

Soft seat





Dimensions

	Connections	Orifice	Area	A	B	C	Weight	Clamp dimensions ISO 2852 D	M	E	L1	L2
			(mm^2)	(mm)	(mm)	(mm)	(kg)	(mm)	(mm)	(mm)	(mm)	(mm)
15 x 25	Clamp- Clamp	9,5	71	73	65	155	2,4	25	19	12,7	2,85	12,7
20 x 25	Clamp- Clamp	15	176,6	73	65	155	2,4	25	19	19	2,85	12,7
25 x 25	Clamp- Clamp	18	254	73	67	155	2,8	50,5	43,5	25,6	2,85	21,5
40 x 40	Clamp- Clamp	32	804	90	98	234	8,2	50,5	43,5	38,6	2,85	21,5
15 x 1"	Clamp- BSP	9,5	71	45	65	155	2	25	19	12,7	2,85	12,7
20 x 1"	Clamp- BSP	15	176,6	45	65	155	2	25	19	19	2,85	12,7
25 x 1"	Clamp- BSP	18	254	45	67	155	2,2	50,5	43,5	25,6	2,85	21,5
40 x 2"	Clamp- BSP	32	804	62	98	234	8,2	50,5	43,5	38,6	2,85	21,5

TOSACA

Model 1216 B

Description

Type	Safety and Relief valve
Connections / Rating	PN,16, PN 40, ANSI150 and ANSI 300
Material	Stainless steel 316 L Temperature range -10 to +350ºC Cryogenic service until -196ºC

Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg
Overpressure	10%
Blowdown	Gases 10%, liquids 20%
Tolerance Set pressure	± 3%

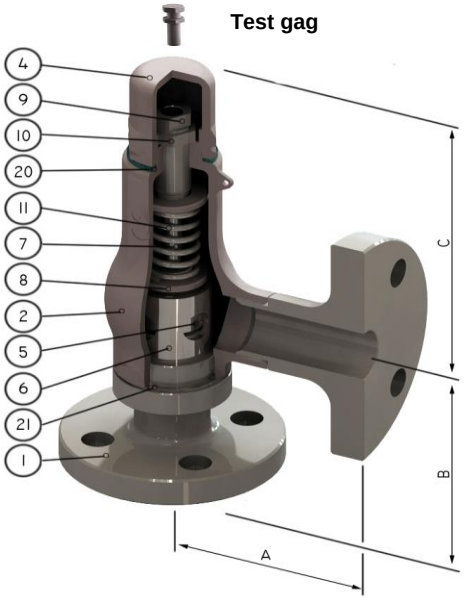
Requirements

Calculation	EN-4126-1 / 7
Design	EN-12516-1, EN-4126-1 / 7
	DIN 259 and ANSI B2.1
Materials	EN
Inspection	EN-4126-1 / 7

Construction and materials

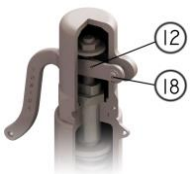
		Material	
Item	Description	Standard	Cryogenic
1	Nozzle	AISI-316L	AISI-316L
2	Body	A351 CF-3M	A351 CF-3M
4	Cap	A351 CF-8	A351 CF-8
5	Disc	AISI-316L	AISI-316L
6	Guide	AISI-316L	AISI-316L
7	Push Road	AISI-316L	AISI-316L
8	Spring Button	AISI-303	AISI-303
9	Ajusting Screw	AISI-303	AISI-303
10	Tensor Nut	AISI-303	AISI-303
11	Spring	AISI-302	17 / 7PH
12	Lever	A351 CF-8	A351 CF-8
17	Release nut	AISI-316	AISI-316
18	Lever axis	AISI-303	AISI-303
19	Packing lever axis	AISI-303	AISI-303
20	Gasket	PTFE	PTFE
21	Gasket	Graphite+SS	Graphite+SS
22	Gasket	Viton	Viton
28	Soft seat	Viton / PTFE	Metal

Recommended spare parts



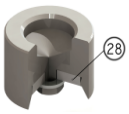
Options

Lifting device



Sealed packing lever

Soft seat



Dimensions

Connections			Orifice	Area	A	B	C	Weight
	Inlet	Outlet		(mm^2)	(mm)	(mm)	(mm)	(kg)
1/2" x 1"	ANSI150 or ANSI300	ANSI150	13	133	70	90	155	3
3/4" x 1"	ANSI150 or ANSI300	ANSI150	14	154	70	90	155	3,2
1" x 1"	ANSI150 or ANSI300	ANSI150	16	201	70	90	155	3,5
1/2" x 1"	ANSI150 or ANSI300	BSP / NPT	13	133	45	90	155	3
3/4" x 1"	ANSI150 or ANSI300	BSP / NPT	14	154	45	90	155	3,2
1" x 1"	ANSI150 or ANSI300	BSP / NPT	16	201	45	90	155	3,5
15 x 25	PN 16 or PN 40	PN 16	13	133	70	90	155	3
20 x 25	PN 16 or PN 40	PN 16	14	154	70	90	155	3,2
25 x 25	PN 16 or PN 40	PN 16	16	201	70	90	155	3,5
15 x 1"	PN 16 or PN 40	BSP / NPT	13	133	45	90	155	3
20 x 1"	PN 16 or PN 40	BSP / NPT	14	154	45	90	155	3,2
25 x 1"	PN 16 or PN 40	BSP / NPT	16	201	45	90	155	3,5

Model 1400

Description

Type	Safety and Relief valve	
Connections / Rating	Flanged EN 1092 PN-16 / 25 / 40 / 63 / 100	
Material	Nodular Iron, Carbon steel, Stainless steel and Duplex	Temperature range: -28ºC to +455ºC

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
	20% fire exposure, 25% for liquids
Blowdown	10%
Tolerance Set pressure	± 3%

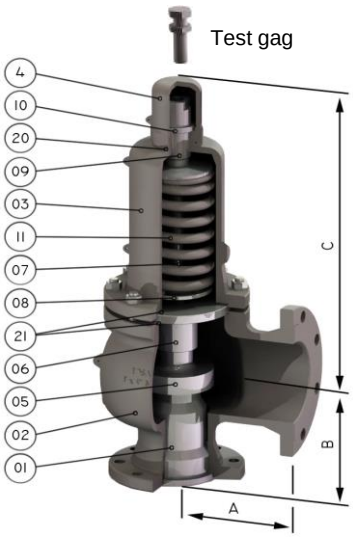
Requirements

Calculation	EN-4126-1 / 7
Design / Size	EN-12516-1, EN-4126-1 / 7
Materials	EN / ASTM
Inspection	EN-4126-1 / 7 API 527 MSS-SP-55
Tolerances	EN-4126-1 y ASME UG-126

Construction and materials

Item	Description	15 x 25 to 25 x 40 PN 16/25 Carbon steel	32 x 50 to 400 x 500 PN 16/25 Nodular iron	15 x 25 to 400 x 500 PN 40/63/100 carbon steel	15 x 25 to 400 x 500 PN 16 to 100 Stainless steel
1	**Nozzle**	AISI-316L	A351 CF-8	A351 CF-8	A351 CF-8
2	**Body**	C.S. 1.0619	EN-JS1030	C.S. 1.0619	1.4409
3	**Bonnet**	C.S. 1.0619	EN-JS1030	C.S. 1.0619	1.4409
4	**Cap**	A351 CF-8	A351 CF-8	A351 CF-8	A351 CF-8
5	**Disc**	AISI-316L	AISI-316L	AISI-316L	AISI-316L
6	**Guide**	AISI-304	AISI-304	AISI-304	AISI-304
7	**Push Road**	AISI-316L	AISI-316L	AISI-316L	AISI-316L
8	**Spring Button**	Carbon steel	Carbon steel	Carbon steel	AISI-303
9	**Ajusting Screw**	AISI-303	AISI-303	AISI-303	AISI-303
10	**Lock Nut**	AISI-303	AISI-303	AISI-303	AISI-303
11	**Spring**	1.8159 C. steel	1.8159 C. steel	1.8159 C.steel	AISI-302
12	**Lever**	A 351 CF 8	A 351 CF 8	A 351 CF 8	A351 CF-8
17	**Release nut**	AISI-303	AISI-303	AISI-303	AISI-316
18	**Lever axis**	AISI-303	AISI-303	AISI-303	AISI-303
19	**Packing lever axis**	AISI-303	AISI-303	AISI-303	AISI-303
20	**Gasket cap**	PTFE	PTFE	PTFE	PTFE
21	**Gasket bonnet**	GRAPHITE +S.S	GRAPHITE +S.S	GRAPHITE+SS	GRAPHITE+SS
22	**Gasket pack. lever**	Viton	Viton	Viton	Viton
27	**Bellow**	AISI-316 Ti	AISI-316 Ti	AISI-316 Ti	AISI-316 Ti
28	**Soft seat**	Viton / PTFE	Viton / PTFE	Viton / PTFE	Viton / PTFE

Recommended spare parts



Options

Lifting device

Sealed packing lever

Open bonnet

Soft seat

Bellows

Model 1400

Dimensions

			Orif. (mm)	Area (mm^2)	PN 16 (mm) A	PN 16 (mm) B	PN 16 (mm) C	PN 16 Weight (kg) W	PN 25 (mm) A	PN 25 (mm) B	PN 25 (mm) C	PN 25 Weight (kg) W	PN 40 (mm) A	PN 40 (mm) B	PN 40 (mm) C	PN 40 Weight (kg) W
15	**x**	**25**	13	133	95	95	275	10	95	95	275	10	95	95	275	10
20	**x**	**25**	13	133	95	95	275	10	95	95	275	10	95	95	275	10
25	**x**	**40**	23,8	445	100	105	280	12	100	105	280	12	100	105	280	12
32	**x**	**50**	29,5	683	110	115	325	15	110	115	325	15	110	115	325	15
40	**x**	**65**	36	1018	115	140	325	19	115	140	325	19	115	140	325	19
50	**x**	**80**	46	1662	120	150	460	29	120	150	460	29	120	150	460	29
65	**x**	**100**	60	2827	140	170	460	36	140	170	460	36	140	170	460	36
80	**x**	**125**	72	4072	160	195	590	58	160	195	590	58	160	195	590	58
100	**x**	**150**	90	6362	180	220	630	85	180	220	630	85	180	220	630	85
125	**x**	**200**	105	8659	200	250	690	140	200	250	690	140	200	250	690	140
150	**x**	**200**	125	12.272	•	•	•	•	•	•	•	•	241	240	695	160
150	**x**	**250**	125	12.272	225	285	715	150	225	285	715	150	•	•	•	•
200	**x**	**250**	153	18.385	•	•	•	•	•	•	•	•	279	276	815	195
200	**x**	**300**	153	18.385	300	290	815	200	•	•	•	•	•	•	•	•
250	**x**	**350**	200	31.415	406	305	1.390	750	•	•	•	•	•	•	•	•
300	**x**	**400**	228	40.828	406	359	1.432	850	•	•	•	•	•	•	•	•
400	**x**	**500**	304	72.950	533	432	1.943	900	•	•	•	•	•	•	•	•

			PN 63 Orif. (mm)	PN 63 Area (mm^2)	PN 63 (mm) A	PN 63 (mm) B	PN 63 (mm) C	PN 63 Weight (kg) W	PN 100 Orif. (mm)	PN 100 Area (mm^2)	PN 100 (mm) A	PN 100 (mm) B	PN 100 (mm) C	PN 100 Weight (kg) W
15	**x**	**25**	9,6 /13	71/133	95	95	275	11	9,6 /13	71/133	95	95	275	11
20	**x**	**25**	9,6 /13	71/133	95	95	275	11	9,6 /13	71/133	95	95	275	11
25	**x**	**50**	20	314	140	105	315	25	16	201	140	105	315	25
32	**x**	**50**	23,8	445	140	105	315	30	20	314	140	105	315	30
40	**x**	**65**	26	531	165	124	430	30	23,8	445	165	124	430	30
50	**x**	**80**	32	804	162	154	400	35	32	804	162	154	400	35
65	**x**	**100**	48	1.809	140	170	460	66	39	1.194	140	170	460	66

Model 1400 LP

Description

Type	Safety and Relief valve
Connections / Ratin	Flanged EN 1092 PN-16
Material	Nodular Iron, Carbon steel, Stainless steel and Duplex Temperature range: -28ºC to +455ºC

Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	**5 mbarg to 200 mbarg**
Overpressure	10%
Blowdown	Gases 10%, liquids 20%
Tolerance Set pressure	± 3%

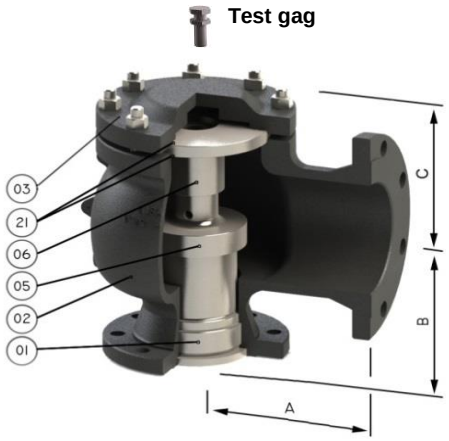
Requirements

Calculation	EN-4126-1 / 7
Design / Size	EN-12516-1, EN-4126-1 / 7
Materials	EN / ASTM
Inspection	EN-4126-1 / 7 API 527 MSS-SP-55
Tolerances	EN-4126-1 y ASME UG-126

Construction and materials

		Material	
Item	Description	Nodular iron	Stainless steel
1	Nozzle	AISI-304	AISI-304
2	Body	EN-JS1030	1,4409
3	Cover	Carbon steel	AISI-304
5	Disc	AISI-316L	AISI-316L
6	Guide	AISI-304	AISI-304
21	Gasket cover	GRAPHITE+S.S.	GRAPHITE+SS
28	Soft seat	PTFE/ Viton	PTFE/ Viton

Recommended spare parts



Dimensions

			PN 16			
				(mm)		Weight (kg)
	Orif. (mm)	Area (mm^2)	A	B	C	W
25 x 40	23,8	445	100	105	75	10
32 x 50	29,5	683	110	115	105	11
40 x 65	36	1018	115	140	105	11
50 x 80	46	1662	120	150	155	20
65 x 100	60	2827	140	170	165	30
80 x 125	72	4072	160	195	175	52
100 x 150	90	6362	180	220	175	75
125 x 200	105	8659	200	250	175	105
150 x 200	125	12.272	241	240	200	120
150 x 250	125	12.272	225	285	200	120
200 x 250	153	18.385	279	276	225	152
200 x 300	153	18.385	300	290	225	152
250 x 350	200	31.415	406	305	250	515
300 x 400	228	40.828	406	359	375	600
400 x 500	304	72.950	533	432	400	900

Model 1415

Description

Type	Safety relief valves
Connections	ASME/ANSI B16.5 ANSI150 / 300 / 600 / 900 / 1500 / 2500
Material	Carbon steel A 216 WCB/ WCC, A 217 WC6, S.S. A 351 CF3M and Duplex Temp. range: -196ºC to +555ºC

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
	20% for fire exposure, 25% for liquids
Blowdown	10%
Tolerance Set pressure	± 3%

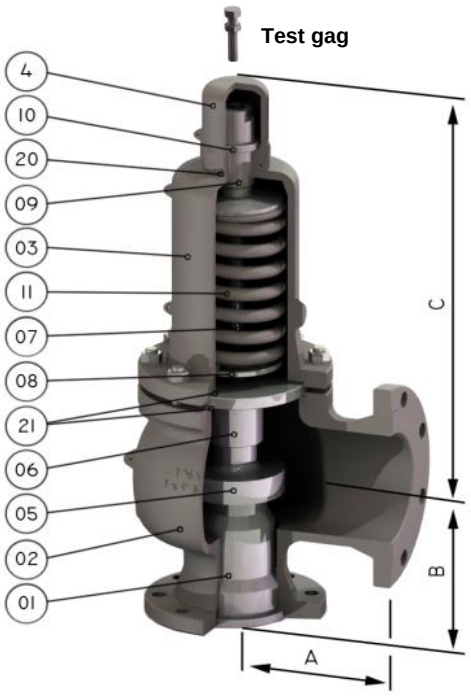
Requirements

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

Construction and materials

Pos	Description	MATERIAL Carbon steel	Stainless steel
1	**Nozzle**	AISI-316L	AISI-316L
2	**Body**	A216 WCB	A351 CF-3M
3	**Bonnet**	A216 WCB	A351 CF-3M
4	**Cap**	A351 CF 8	A351 CF 8
5	**Disc**	AISI-316L	AISI-316L
6	**Guide**	AISI-316L	AISI-316L
7	**Push Road**	AISI-316L	AISI-316L
8	**Spring Button**	AISI-303	AISI-303
9	**Ajusting Screw**	AISI-420	AISI-303
10	**Lock Nut**	AISI-303	AISI-303
11	**Spring**	1.8159 C. S.	AISI-302
12	**Lever**	A351 CF 8	A351 CF 8
17	**Release nut**	AISI-316L	AISI-316
18	**Lever axis**	AISI-303	AISI-303
19	**Packing lever axis**	AISI-303	AISI-303
20	**Gasket cap**	PTFE	PTFE
21	**Gasket bonnet**	Graphite + S.S.	Graphite + S.S.
22	**Gasket pack. lever**	Viton	Viton
27	**Bellow**	AISI-316 TI	AISI-316 TI
28	**Soft seat**	Viton / PTFE	Viton / PTFE

Recommended spare parts



Options

Lifting device

Sealed packing lever

Open bonnet

Soft seat

Bellows

Model 1415

Dimensions

		Orif. (mm)	Area (mm^2)	ANSI 150 (mm) A	B	C	Weight (kg) W	ANSI 300 (mm) A	B	C	Weight (kg) W	ANSI 600 (mm) A	B	C	Weight (kg) W
D/E	1/2" D / E 1"	9,5 /13	71/133	95	95	275	10	95	95	275	10	95	100	275	11
	3/4" D / E 1"	9,5 /13	71/133	95	95	275	10	95	95	275	10	95	100	275	11
	1" D / E 1"	9,5 /13	71/133	95	95	275	10	95	95	275	10	95	100	275	11
	1" D / E 2"	9,5 /13	71/133	114	105	275	14	114	105	275	16	114	105	275	18
F	1 1/2" F 2"	16	201	121	124	315	17	121	124	315	17	152	124	315	20
	1 1/2" F 2" 300L	16	201	•	•	•	•	152	124	315	17	•	•	•	•
G	1 1/2" G 3"	21	346	121	124	400	26	121	124	400	26	152	124	400	28
	1 1/2" G 3" 300L	21	346	•	•	•	•	152	124	400	26	•	•	•	•
H	1 1/2" H 3"	26	531	124	130	400	26	124	130	400	26	•	•	•	•
	2" H 3"	26	531	•	•	•	•	124	130	400	27	162	154	400	32
J	2" J 3"	32,5	830	124	137	400	28	124	137	400	29	•	•	•	•
	3" J 4"	32,5	830	•	•	•	•	181	184	595	56	181	184	595	62
K	3" K 4"	40	1.195	162	156	595	56	162	156	595	56	181	184	595	62
L	3" L 4"	49	1.866	165	156	595	56	165	156	595	56	•	•	•	•
	4" L 6"	49	1.866	•	•	•	•	181	179	630	56	203	179	630	90
M	4" M 6"	55	2.376	184	178	630	88	184	178	630	90	203	178	630	110
N	4" N 6"	60	2.827	210	197	630	88	210	197	630	90	222	197	630	110
P	4" P 6"	73	4.185	229	181	630	88	229	181	630	90	254	225	630	120
	4" P 6" 300L	73	4.185	•	•	•	•	254	181	630	90	•	•	•	•
Q	6" Q 8"	96	7.238	241	240	690	140	241	240	690	140	241	240	690	190
R	6" R 8"	115	10.387	241	240	690	140	241	240	690	140	•	•	•	•
	6" R 10"	115	10.387	•	•	•	•	267	240	795	198	267	240	795	198
T	8" T 10"	147	16.972	279	276	800	210	279	276	800	220	•	•	•	•
V	10" V 14"	200	31.415	406	305	1.390	750	406	305	1.390	780	•	•	•	•
W	12" W 16"	228	40.828	406	359	1.432	800	406	359	1.432	850	•	•	•	•

		Orif. (mm)	Area (mm^2)	ANSI 900 (mm) A	B	C	Weight (kg) W	ANSI 1500 (mm) A	B	C	Weight (kg) W	ANSI 2500 (mm) A	B	C	Weight (kg) W
D/E	1 1/2" D 2"	9,5 /13	71/133	140	105	315	19	140	105	315	24	•	•	•	•
	1 1/2" D 3"	9,5 /13	71/133	•	•	•	•	•	•	•	•	178	140	325	30
F	1 1/2" F 3"	16	201	165	124	315	22	165	124	315	22	178	140	325	30
G	1 1/2" G 3"	21	346	165	124	430	28	•	•	•	•	•	•	•	•
	2" G 3"	21	346	•	•	•	•	175	156	444	41	175	156	444	50
H	2" H 3"	26	531	162	154	400	32	162	154	430	45	•	•	•	•
J	3" J 4"	32,5	830	181	184	595	62	181	184	595	65	•	•	•	•
K	3" K 6"	40	1.195	216	198	610	90	216	198	610	105	•	•	•	•
L	4" L 6"	49	1.866	222	197	820	120	222	197	820	120	•	•	•	•
M	4" M 6"	55	2.376	222	197	690	120	•	•	•	•	•	•	•	•
N	4" N 6"	60	2.827	222	197	820	120	•	•	•	•	•	•	•	•
P	4" P 6"	73	4.185	254	225	630	120	•	•	•	•	•	•	•	•

Model 1415 LP

Description

Type	Safety relief valves
Connections	ASME/ANSI B16.5 ANSI150
Material	Carbon steel A 216 WCB/ WCC, A 217 WC6, S.S. A 351 CF3M and Duplex
Temperature range	-196ºC to +455ºC

Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	**5 mbarg to 200 mbarg**
Overpressure	10%
Blowdown	Gases 10%, liquids 20%
Tolerance Set pressure	± 3%

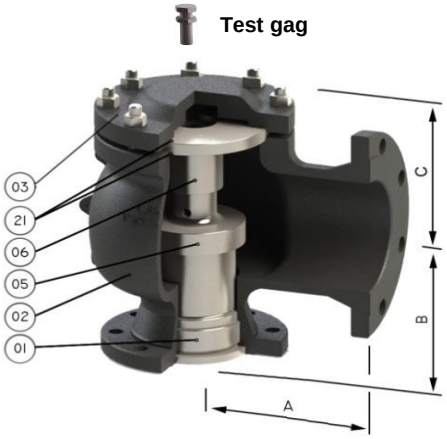
Requirements

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

Construction and materials

		Material	
Item	Description	Carbon steel	Stainless steel
1	Nozzle	AISI-304	AISI-304
2	Body	A216 WCB	A351 CF-3M
3	Cover	Carbon steel	AISI-304
5	Disc	AISI-316L	AISI-316L
6	Guide	AISI-304	AISI-304
21	Gasket cover	GRAPHITE+S.S.	GRAPHITE+SS
28	Soft seat	PTFE/ Viton	PTFE/ Viton

Recommended spare parts



Dimensions

			ANSI150			
				(mm)		Weight (kg)
	Orif. (mm)	Area (mm^2)	A	B	C	W
1" E 2"	13	133	114	105	75	10
1 1/2" F 2"	16	201	121	124	105	12
1 1/2" G 3"	21	346	121	124	110	21
1 1/2" H "3	26	531	124	130	110	21
2" J 3"	32,5	830	124	137	110	23
3" K 4"	40	1195	162	156	175	48
3" L 4"	49	1.866	165	156	175	48
4" M 6"	55	2376	184	178	180	72
4" N 6"	60	2827	210	197	180	72
4" P 6"	73	4185	229	181	180	72
6" Q 8"	96	7238	241	240	200	102
6" R 8"	115	10387	241	240	200	102
8" T 10"	147	16.972	279	276	225	135
10" V 14"	200	31.415	406	305	250	515
12" W 16"	228	40.828	406	359	375	600