

Model 1216F

TECHNICAL DATA SHEET



Description

Type	Safety and Relief valve
Connections	Threaded BSP / NPT
Rating	PN-40
Material	Stainless steel 316 L
Temperature range	-10 to +350°C
Cryogenic service until	-196°C

Requirements

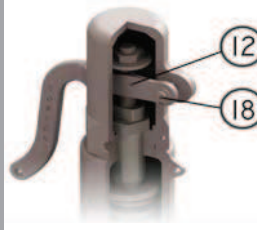
Calculation	EN-4126-1 / 7
Design	EN-12516-1, EN-4126-1 / 7
	DIN 259 and ANSI B2.1
Materials	EN
Inspection	EN-4126-1 / 7

Construction and materials

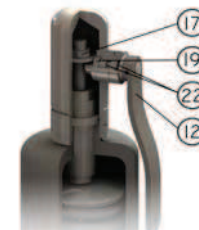
Item	Description	Material	
		Standard	Cryogenic
1	Nozzle	SA 351 CF-3M	SA 351 CF-3M
2	Body	SA 351 CF-3M	SA 351 CF-3M
4	Cap	SA 351 CF 8	SA 351 CF 8
5	Disc	316 L SS	316 L SS
6	Guide	SA 351 CF-3M	SA 351 CF-3M
7	Push Road	316 L SS	316 L SS
8	Spring Button	303 SS	303 SS
9	Ajusting Screw	303 SS	303 SS
10	Tensor Nut	303 SS	303 SS
11	Spring	303 SS	17 / 7PH
12	Lever	SA 351 CF 8	SA 351 CF 8
17	Release nut	306 L SS	306 L SS
18	Lever axis	303 SS	303 SS
19	Packing lever axis	303 SS	303 SS
20	Gasket	PTFE	PCTFE
21	Gasket	PTFE	PCTFE
22	Gasket	Viton	PCTFE
28	Soft seat	Viton / PTFE	Metal

○ Recommended spare parts

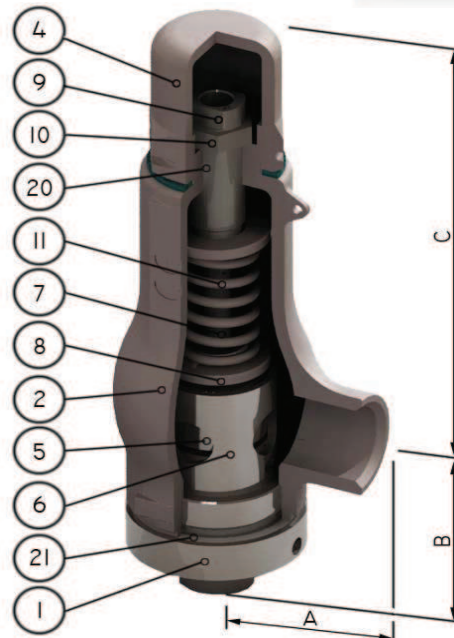
Palanca manual
Lifting device



Palanca estanca
Sealed packing lever



T. Prueba
Test gag



Obturator o-ring
Disc o-ring



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%
Discharge coefficients	k= 0,55 for gases k= 0,48 for liquids

Dimensions

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



Description

Type	Safety and Relief valve
Connections	Threaded BSP / NPT
Rating	PN-100
Material	Carbon steel Stainless steel 316 L SS
Temperature range	-28°C to +350°C

Requirements

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

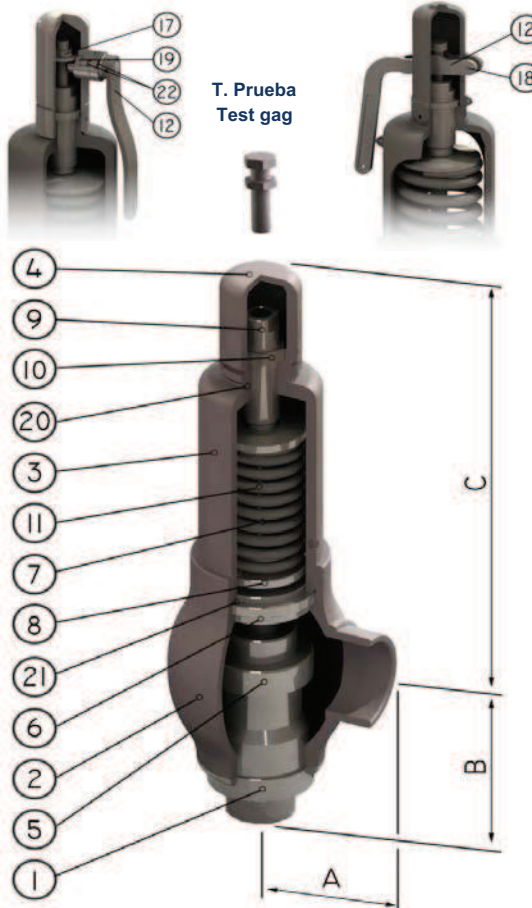
Construction and materials

Item	Description	Material	
		Carbon Steel	Stainless steel
1	Nozzle	316 L SS	316 L SS
2	Body	A 106 Gr.b	316 L SS
3	Bonnet	A 106 Gr.b	316 L SS
4	Cap	A351 CF-8	A351 CF-8
5	Disc	316 L SS	316 L SS
6	Guide	316 L SS	316 L SS
7	Push Road	420 SS	316 L SS
8	Spring Button	C. Steel zn.	303 SS
9	Ajusting Screw	303 SS	303 SS
10	Lock nut	303 SS	303 SS
11	Spring	Carbon Steel	302 SS
12	Lever	A351 CF-8	A351 CF-8
17	Release nut	303 L SS	306 L SS
18	Lever axis	303 SS	303 SS
19	Packing lever axis	303 SS	303 SS
20	Gasket	NBR+MF	PTFE
21	Gasket	NBR+MF	PTFE
22	Gasket	Viton	Viton
28	Soft seat	Viton / PTFE	Viton / PTFE

○ Recommended spare parts

Palanca manual
Lifting device

Palanca estanca
Sealed packing lever

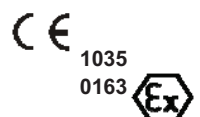


Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg
Seat	metal-metal, PTFE, Viton
Overpressure	10% for steam, gas and vapour 20% for fire exposure 25% for liquid on thermal relief
Blowdown	7%
Tolerance Set pressure	± 3%
Discharge coefficients	k= 0,64 for gases k= 0,5 for liquids

Dimensions

Inlet	Outlet	Orifice	Area (mm ²)	A (mm)	B (mm)	C (mm)	Weight (kg)
1/2"	1"	13	133	60	88	250	4,8
3/4"	1"	14	154	60	88	250	4,8
1"	1"	14	154	60	92	250	4,8
1"	1 1/2"	16	201	60	92	250	5,5
1 1/4"	2"	18	254	65	110	305	9,7
1 1/2"	2 1/2"	23,8	445	100	113	305	10,7
2"	3"	26	531	116	121	305	11,4



Description

Type	Safety and Relief valve
Connections	Flanged EN 1092
Rating	PN-16 / 25 / 40 / 63 / 100
Material	Nodular Iron, Carbon steel
	Stainless steel
Temperature range	-28°C to +350°C

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 and ASME UG-126

Construction and materials

Item	Description	PN-16/25		PN-40		PN-63/100	PN-16/25/40		PN-63/100
		Carbon steel		Carbon steel		Carbon steel	Stainless steel		Stainless st.
		DN-15x25 to DN-40x65 PN-16/25	DN-50x80 to DN-200x300 PN-16/25	DN-15x25 to DN-50x80 PN-40	DN-65x100 to DN-200x300 PN-40	DN-15x25 to DN-65x100 PN-63/100	DN-15x25 to DN-50x80 PN-16/40	DN-65x100 to DN-200x300 PN-16/40	DN-15x25 to DN-65x100 PN-63/100
1	Nozzle	C.S. + 308 L SS	C.S. + 308 L SS	C.S. + 308 L SS	C.S. + 308 L SS	316L + Stellite	AISI 316L	AISI 316L	316L + Stellite
2	Body	A106 Gr.B	EN-JS1030	A106 Gr.B	C.S. 1.0619	A106 Gr.B	AISI 316L	AISI 316L	AISI 316L
3	Bonnet	A106 Gr.B	EN-JS1030	A106 Gr.B	C.S. 1.0619	A106 Gr.B	AISI 316L	AISI 316L	AISI 316L
4	Cap	A351 CF-8	A351 CF-8	A351 CF-8	A351 CF-8	A351 CF8	A351 CF-8	A351 CF-8	A351 CF-8
5	Disc	AISI 420	C.S. + 308 L SS	AISI 420	C.S. + 308 L SS	AISI 316L	AISI 316L	AISI 316L	AISI 316L
6	Guide	C. Steel zn.	C.S. + 304 SS	C. Steel zn.	C.S. + 304 SS	C. Steel zn.	AISI 316L	AISI 316L	AISI 316L
7	Push Road	AISI 420	AISI 420	AISI 420	AISI 420	AISI 420	AISI 316L	AISI 316L	AISI 316L
8	Spring Button	C. Steel zn.	C. Steel zn.	C. Steel zn.	C. Steel zn.	C. Steel zn.	AISI 303	AISI 303	AISI 303
9	Ajusting Screw	Brass	AISI-420	AISI 303	AISI-420	AISI303	AISI 303	AISI 303	AISI 303
10	Lock Nut	Brass	C. Steel zn.	AISI 303	C. Steel zn.	C. Steel zn.	AISI 303	AISI 303	AISI 303
11	Spring	Carbon steel	Carbon Steel	Carbon steel	Carbon Steel	Carbon steel	AISI 302	AISI 302	AISI 302
12	Lever	A 351 CF 8	A 351 CF 8	A 351 CF 8	A 351 CF 8	A 351 CF 8	A351 CF-8	A351 CF-8	A351 CF-8
17	Release nut	AISI 304	AISI 304	Carbon steel	AISI 304	Carbon steel	AISI 316L	AISI 316L	AISI 316L
18	Lever axis	AISI 303	AISI 303	AISI-303	AISI 303	AISI-303	AISI 303	AISI 303	AISI 303
19	Packing lever axis	AISI 303	AISI 303	AISI-303	AISI 303	AISI-303	AISI 303	AISI 303	AISI 303
20	Gasket cap	NBR+MF	NBR+MF	NBR+MF	NBR+MF	NBR+MF	PTFE	PTFE	PTFE
21	Gasket bonnet	NBR+MF	NBR+MF	NBR+MF	NBR+MF	NBR+MF	PTFE	PTFE	PTFE
22	Gasket pack. lever	Viton	Viton	Viton	Viton	Viton	Viton	Viton	Viton
27	Bellow	316 TI SS	316 TI SS	316 TI SS	316 TI SS	316 TI SS	AISI 316TI	AISI 316TI	AISI 316TI
28	Soft seat	Viton / PTFE	Viton / PTFE	Viton / PTFE	Viton / PTFE	Viton / PTFE	Viton / PTFE	Viton / PTFE	Viton / PTFE

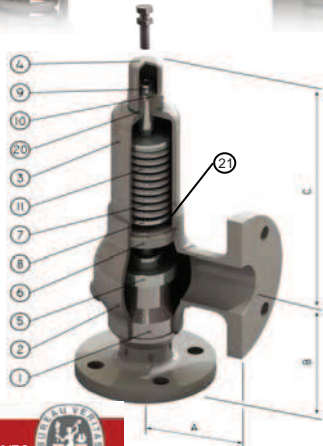
○ Recommended spare parts

Palanca manual
Lifting device



T. Prueba
Test gag

Palanca estanca
Sealed packing lever



Cpo. intermedio abierto
Open bonnet



Obturator o-ring
Disc soft seat

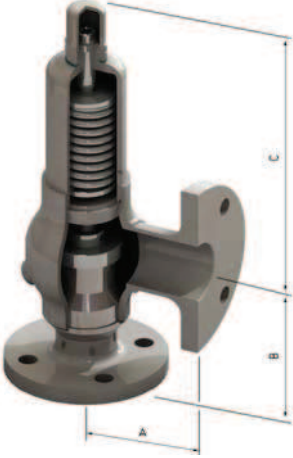
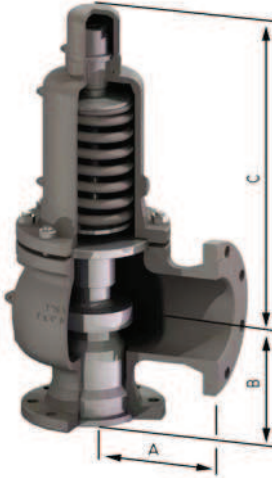


Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg
Seat	metal-metal, PTFE, Viton, Nozzle SS+Stellite
Overpressure	10% for steam, gas and vapour 20% for fire exposure 25% for liquid on thermal relief
Blowdown	7%
Tolerance Set pressure	± 3%
Discharge coefficients	k= 0,64 for gases k= 0,5 for liquids



Dimensions

Design	DN	TOSACA Model	Valve Size Inlet by Outlet	EN 1092 Flanges		Orif. (mm)	Area (mm ²)	Face Dimension (mm)			Weight (kg) W
				Inlet	Outlet			A	B	C	
	15	1400 PN 16	15 x 25	16	16	16	201	85	95	253	7
		1400 PN 25	15 x 25	25	16	16	201	85	95	253	7
		1400 PN 40	15 x 25	40	16	16	201	85	95	253	7
		1400 PN 63	15 x 25	63	16	13	133	85	95	253	7
		1400 PN100	15 x 25	100	16	13	133	85	95	253	7
	20	1400 PN 16	20 x 32	16	16	18	254	85	95	253	7,5
		1400 PN 25	20 x 32	25	16	18	254	85	95	253	7,5
		1400 PN 40	20 x 32	40	16	18	254	85	95	253	7,5
		1400 PN 63	20 x 32	63	16	13	133	100	105	253	7,5
		1400 PN100	20 x 32	100	16	13	133	100	105	253	7,5
	25	1400 PN 16	25 x 40	16	16	23,8	445	100	105	275	8
		1400 PN 25	25 x 40	25	16	23,8	445	100	105	275	8
		1400 PN 40	25 x 40	40	16	23,8	445	100	105	275	8
		1400 PN 63	25 x 50	63	16	20	314	110	100	275	8
		1400 PN100	25 x 50	100	16	16	201	110	100	275	8
	32	1400 PN 16	32 x 50	16	16	29,5	683	110	115	325	11,5
		1400 PN 25	32 x 50	25	16	29,5	683	110	115	325	11,5
		1400 PN 40	32 x 50	40	16	29,5	683	110	115	325	11,5
		1400 PN 63	32 x 50	63	16	23,8	445	110	115	325	11,5
		1400 PN100	32 x 50	100	16	20	314	110	115	325	11,5
40	1400 PN 16	40 x 65	16	16	36	1018	115	140	325	12,5	
	1400 PN 25	40 x 65	25	16	36	1018	115	140	325	12,5	
	1400 PN 40	40 x 65	40	16	36	1018	115	140	325	12,5	
	1400 PN 63	40 x 65	63	16	26	531	115	140	325	12,5	
	1400 PN100	40 x 65	100	16	23,8	445	115	140	325	12,5	
50	1400 PN 40	50 x 80	40	16	46	1662	120	150	400	14	
	1400 PN 63	50 x 80	63	16	32	804	120	150	400	14	
	1400 PN100	50 x 80	100	16	32	804	120	150	400	14	
	50	1400 PN 16	50 x 80	16	16	46	1662	120	150	400	14
		1400 PN 25	50 x 80	25	16	46	1662	120	150	400	14
	65	1400 PN 16	65 x 100	16	16	59,5	2781	140	170	450	45
		1400 PN 25	65 x 100	25	16	59,5	2781	140	170	450	45
		1400 PN 40	65 x 100	40	16	59,5	2781	140	170	450	45
		1400 PN 63	65 x 100	63	16	48	1810	140	170	450	50
		1400 PN100	65 x 100	100	16	39	1195	140	170	450	51
	80	1400 PN 16	80 x 125	16	16	72	4072	160	195	625	58
		1400 PN 25	80 x 125	25	16	72	4072	160	195	625	58
		1400 PN 40	80 x 125	40	16	72	4072	160	195	625	58
	100	1400 PN 16	100 x 150	16	16	90	6362	180	220	663	84
		1400 PN 25	100 x 150	25	16	90	6362	180	220	663	84
		1400 PN 40	100 x 150	40	16	90	6362	180	220	663	84
	125	1400 PN 16	125 x 200	16	16	105	8659	200	250	760	140
		1400 PN 25	125 x 200	25	16	105	8659	200	250	760	140
		1400 PN 40	125 x 200	40	16	105	8659	200	250	760	140
	150	1400 PN 16	150 x 250	16	16	125	12272	242	240	760	150
		1400 PN 25	150 x 250	25	16	125	12272	242	240	760	150
		1400 PN 40	150 x 200	40	16	125	12272	242	240	760	150
	200	1400 PN 16	200 x 300	16	16	153	18385	300	290	795	200

Description

Type	Safety and Relief valve
Connections	Flanged ASME/ANSI B16.5
Rating	150#/300# 600#/900#/1500# RF
Material	Carbon steel A 216 WCB Stainless steel A 351 CF3M Special constructions
Temperature range	-28°C to +400°C
Stainless steel	-96°C to +400°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 and ASME UG-126

Construction and materials

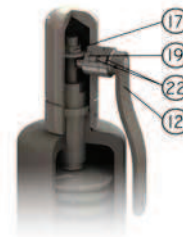
Item	Description	Material	Material
		Carbon Steel	Stainless steel
1	Nozzle	AISI-304	AISI-316L
2	Body	A216 WCB	A351 CF-3M
3	Bonnet	A216 WCB	A351 CF-3M
4	Cap	A351 CF 8	A351 CF 8
5	Disc	AISI-316L	AISI-316L
6	Guide	AISI-316L	AISI-316L
7	Push Road	AISI-316L	AISI-316L
8	Spring Button	C. Steel zn.	AISI-304
9	Ajusting Screw	AISI-420	AISI-303
10	Tensor Nut	C. Steel zn.	AISI-303
11	Spring	Carbon Steel	AISI-302
12	Lever	A351 CF 8	A351 CF 8
17	Release nut	AISI-316L	AISI-316L
18	Lever axis	AISI-303	AISI-303
19	Packing lever axis	AISI-303	AISI-303
20	Gasket	NBR+MF	NBR
21	Gasket	NBR+MF	NBR
22	Gasket	Viton	Viton
27	Bellow	AISI-316 TI	AISI-316 TI
28	Soft seat	Viton / PTFE	Viton / PTFE
24	Screw-nut	Carbon Steel	AISI-316

○ Recommended spare parts

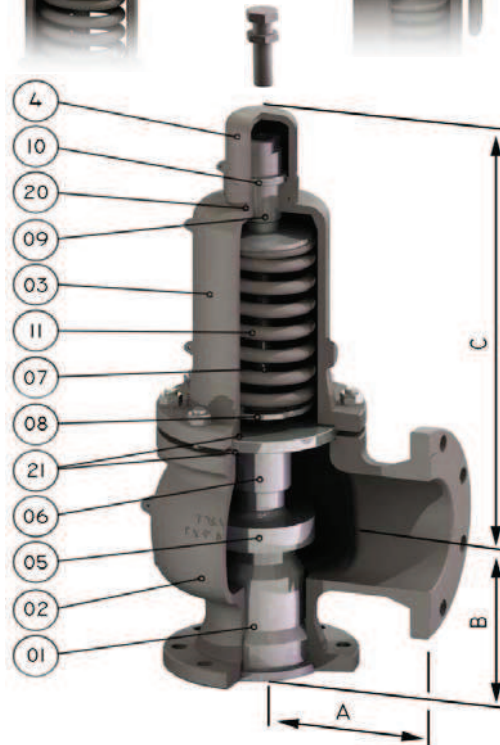
Palanca manual
Lifting device



Palanca estanca
Sealed packing lever



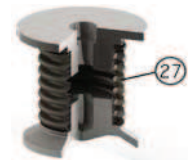
T. Prueba
Test gag



Cpo. intermedio abierto
Open bonnet



Fuelle
Bellows

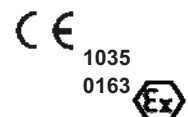


Obturador o-ring
Disc soft seat

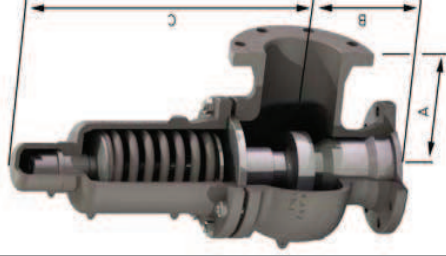


Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg
Seat	metal-metal, PTFE, Viton, Nozzle SS+Stellite (600#, 900#&1500#)
Overpressure	10% for steam, gas and vapour 20% for fire exposure 25% for liquid on thermal relief
Blowdown	7%
Tolerance Set pressure	± 3%
Discharge coefficients	k= 0,975 for gases k= 0,64 for liquids



Orif. Area (mm ²)	1415 150# RF			1415 300# RF			1415 600# RF			1415 900# RF			1415 1500# RF		
	Valve Size ANSI rating	Dimension (mm) A B C	Weight (kg)	Valve Size ANSI rating	Dimension (mm) A B C	Weight (kg)	Valve Size ANSI rating	Dimension (mm) A B C	Weight (kg)	Valve Size ANSI rating	Dimension (mm) A B C	Weight (kg)	Valve Size ANSI rating	Dimension (mm) A B C	Weight (kg)
D / E 71/133	1 1/2" D/E 1" 150#/150#	75 255 95	9	1 1/2" D/E 1" 300#/150#	75 255 95	9,3	1 1/2" D/E 1" 600#/150#	75 255 105	9,5	1 1/2" D/E 1" 900#/150#	75 255 105	9,5	1 1/2" D/E 1" 1500#/300#	75 255 105	9,5
	3/4" D/E 1" 150#/150#	75 255 95	9	3/4" D/E 1" 300#/150#	75 255 95	9,3	3/4" D/E 1" 600#/150#	75 255 105	9,5	3/4" D/E 1" 900#/150#	75 255 105	9,5	3/4" D/E 1" 1500#/300#	75 255 105	9,5
F 201	1" D/E 1" 150#/150#	75 255 95	9	1" D/E 1" 300#/150#	75 255 95	9,3	1" D/E 1" 600#/150#	75 255 105	9,5	1" D/E 1" 900#/150#	75 255 105	9,5	1" D/E 1" 1500#/300#	75 255 105	9,5
	1 1/2" F 2" 150#/150#	114 305 105	10,2	1 1/2" F 2" 300#/150#	114 305 105	10,5	1 1/2" F 2" 600#/150#	114 305 105	11	1 1/2" F 2" 900#/300#	114 305 105	11	1 1/2" F 2" 1500#/300#	114 305 105	11
G 346	1 1/2" G 3" 150#/150#	121 315 124	14	1 1/2" G 3" 300#/150#	121 315 124	15	1 1/2" G 3" 600#/150#	121 315 124	16	1 1/2" G 3" 900#/300#	121 315 124	17	1 1/2" G 3" 1500#/300#	121 315 124	22
	1 1/2" H "3 150#/150#	124 400 130	15	1 1/2" H "3 300#/150#	124 400 130	16	1 1/2" H "3 600#/150#	124 400 130	16	1 1/2" H "3 900#/300#	124 400 130	19	1 1/2" H "3 1500#/300#	124 400 130	25
H 531	2" J 3" 150#/150#	124 400 137	20	2" H 3" 300#/150#	124 400 130	20	2" H 3" 600#/150#	124 400 130	20	2" H 3" 900#/150#	124 400 130	21	2" H 3" 1500#/300#	124 400 130	25
	3" J 4" 150#/150#	162 570 156	24	3" J 4" 300#/150#	162 570 156	25	3" J 4" 600#/150#	162 570 156	25	3" J 4" 900#/150#	162 570 156	28	3" J 4" 1500#/300#	162 570 156	33
K 1195	3" K 4" 150#/150#	165 570 156	24	3" K 4" 300#/150#	165 570 156	25	3" K 4" 600#/150#	165 570 156	25	3" K 4" 900#/150#	165 570 156	28	3" K 4" 1500#/300#	165 570 156	33
	4" M 6" 150#/150#	184 610 178	88	4" M 6" 300#/150#	184 610 178	90	4" M 6" 600#/150#	184 610 178	90	4" M 6" 900#/150#	184 610 178	110	4" M 6" 1500#/300#	184 610 178	120
L 1886	4" N 6" 150#/150#	210 610 197	88	4" N 6" 300#/150#	210 610 197	90	4" N 6" 600#/150#	210 610 197	90	4" N 6" 900#/150#	210 610 197	110	4" N 6" 1500#/300#	210 610 197	120
	4" P 6" 150#/150#	229 610 181	88	4" P 6" 300#/150#	229 610 181	90	4" P 6" 600#/150#	229 610 181	90	4" P 6" 900#/150#	229 610 181	94	4" P 6" 1500#/300#	229 610 181	120
M 2376	6" Q 8" 150#/150#	241 659 240	156	6" Q 8" 300#/150#	241 659 240	160	6" Q 8" 600#/150#	241 659 240	160	6" Q 8" 900#/150#	241 659 240	170	6" Q 8" 1500#/300#	241 659 240	190
	6" R 8" 150#/150#	241 659 240	156	6" R 8" 300#/150#	241 659 240	160	6" R 8" 600#/150#	241 659 240	160	6" R 8" 900#/150#	241 659 240	170	6" R 8" 1500#/300#	241 659 240	190
N 2827	8" T 10" 150#/150#	279 795 276	190	8" T 10" 300#/150#	279 795 276	195	8" T 10" 600#/150#	279 795 276	195	8" T 10" 900#/150#	279 795 276	195	8" T 10" 1500#/300#	279 795 276	195
	4" L 6" 150#/150#	203 610 179	110	4" L 6" 300#/150#	203 610 179	110	4" L 6" 600#/150#	203 610 179	110	4" L 6" 900#/150#	203 610 179	120	4" L 6" 1500#/300#	203 610 179	120
P 4185	4" L 6" 150#/150#	203 610 179	110	4" L 6" 300#/150#	203 610 179	110	4" L 6" 600#/150#	203 610 179	110	4" L 6" 900#/150#	203 610 179	120	4" L 6" 1500#/300#	203 610 179	120
	4" M 6" 150#/150#	203 610 178	110	4" M 6" 300#/150#	203 610 178	110	4" M 6" 600#/150#	203 610 178	110	4" M 6" 900#/150#	203 610 178	120	4" M 6" 1500#/300#	203 610 178	120
Q 7238	4" N 6" 150#/150#	222 610 197	110	4" N 6" 300#/150#	222 610 197	110	4" N 6" 600#/150#	222 610 197	110	4" N 6" 900#/150#	222 610 197	120	4" N 6" 1500#/300#	222 610 197	120
	4" P 6" 150#/150#	254 610 225	94	4" P 6" 300#/150#	254 610 225	94	4" P 6" 600#/150#	254 610 225	94	4" P 6" 900#/150#	254 610 225	120	4" P 6" 1500#/300#	254 610 225	120
R 10387	6" Q 8" 150#/150#	241 659 240	160	6" Q 8" 300#/150#	241 659 240	160	6" Q 8" 600#/150#	241 659 240	160	6" Q 8" 900#/150#	241 659 240	170	6" Q 8" 1500#/300#	241 659 240	190
	6" R 8" 150#/150#	241 659 240	156	6" R 8" 300#/150#	241 659 240	160	6" R 8" 600#/150#	241 659 240	160	6" R 8" 900#/150#	241 659 240	170	6" R 8" 1500#/300#	241 659 240	190
T 16972	8" T 10" 150#/150#	279 795 276	190	8" T 10" 300#/150#	279 795 276	195	8" T 10" 600#/150#	279 795 276	195	8" T 10" 900#/150#	279 795 276	195	8" T 10" 1500#/300#	279 795 276	195
	4" L 6" 150#/150#	222 610 197	120	4" L 6" 300#/150#	222 610 197	120	4" L 6" 600#/150#	222 610 197	120	4" L 6" 900#/150#	222 610 197	120	4" L 6" 1500#/300#	222 610 197	120



Model 1415 B Big size

TECHNICAL DATA SHEET

Description

Type	Safety and Relief valve
Connections	Flanged ASME/ANSI B16.5
Rating	150#/300# RF
Material	Carbon steel A 216 WCB Stainless steel A 351 CF3M Special constructions
Temperature range	-28°C to +400°C
Stainless steel	-96°C to +400°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 and ASME UG-126

Construction and materials

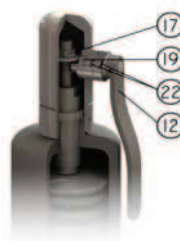
Item	Description	Material	Material
		Carbon Steel	Stainless steel
1	Nozzle	AISI-304	AISI-316L
2	Body	A216 WCB	A351 CF-3M
3	Bonnet	A216 WCB	A351 CF-3M
4	Cap	A216 WCB	A351 CF 8
5	Disc	AISI-316L	AISI-316L
6	Guide	AISI-316L	AISI-316L
7	Push Road	AISI-316L	AISI-316L
8	Spring Button	C. Steel zn.	AISI-304
9	Ajusting Screw	AISI-420	AISI-303
10	Tensor Nut	C. Steel zn.	AISI-303
11	Spring	Carbon Steel	AISI-302
12	Lever	A351 CF 8	A351 CF 8
17	Release nut	AISI-316L	AISI-316L
18	Lever axis	AISI-303	AISI-303
19	Packing lever axis	AISI-303	AISI-303
20	Gasket	NBR+MF	NBR
21	Gasket	NBR+MF	NBR
22	Gasket	Viton	Viton
27	Bellow	AISI-316 TI	AISI-316 TI
28	Soft seat	Viton / PTFE	Viton / PTFE
24	Screw-nut	Carbon Steel	AISI-316

○ Recommended spare parts

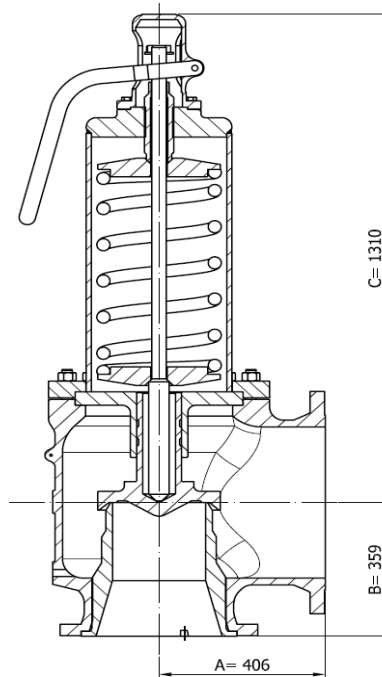
Palanca manual
Lifting device



Palanca estanca
Sealed packing lever



T. Prueba
Test gag



Cpo. intermedio abierto
Open bonnet



Fuelle
Bellows



Obturador o-ring
Disc soft seat



Technical information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg
Seat	metal-metal, PTFE, Nozzle SS+Stellite
Overpressure	10% for steam, gas and vapour 20% for fire exposure 25% for liquid on thermal relief
Blowdown	7%
Tolerance Set pressure	± 3%
Discharge coefficients	k= 0,975 for gases k= 0,64 for liquids

Dimensions

Inlet	Outlet	Orifice	Area (mm ²)	A (mm)	B (mm)	C (mm)	Weight (kg)
12"	16"	W	40808	406	359	1432	850
16"	20"	X	72950	533	432	1943	1850

