

Tosaca 1400

TOSACA
Safety relief valves

Description

Type	Safety and Relief valve
Connections / Rating	Flanged EN 1092 PN-16 / 25 / 40 / 63 / 100
Material	Nodular Iron, Carbon steel, Stainless steel, LCC, Duplex and SuperDuplex
Temperature range	-196°C to +425°C



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

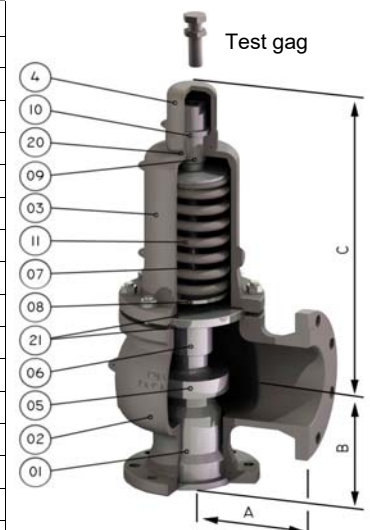
Requirements

Calculation	EN-4126-1 / 7
Design / Size	EN-12516-1, EN-4126-1 / 7
Materials	EN / ASTM
Inspection	EN-4126-1 / 7, MSS-SP-55
Tolerances	EN-4126-1 and 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 Rod	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-304	AISI-304	AISI-304	AISI-304
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	Bellows	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



Tosaca 1400

Dimensions

			PN 16				PN 25				PN 40			
			Weight (kg)				Weight (kg)				Weight (kg)			
			(mm)				(mm)				(mm)			
			A	B	C	W	A	B	C	W	A	B	C	W
15	x	25	13	133			95	95	275	10	95	95	275	10
20	x	25	13	133			95	95	275	10	95	95	275	10
25	x	40	23,8	445			100	105	280	12	100	105	280	12
32	x	50	29,5	683			110	115	325	15	110	115	325	15
40	x	65	36	1018			115	140	325	19	115	140	325	19
50	x	80	46	1662			120	150	460	29	120	150	460	29
65	x	100	60	2827			140	170	460	36	140	170	460	36
80	x	125	72	4072			160	195	590	58	160	195	590	58
100	x	150	90	6362			180	220	630	85	180	220	630	85
125	x	200	105	8659			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	•	•	•	•
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						PN 100					
							Weight (kg)						Weight (kg)
		Orif. (mm)	Area (mm ²)	(mm)				Orif. (mm)	Area (mm ²)	(mm)			
				A	B	C	W			A	B	C	W
15	x 25	9,5 /13	71/133	95	95	275	11	9,5 /13	71/133	95	95	275	11
20	x 25	9,5 /13	71/133	95	95	275	11	9,5 /13	71/133	95	95	275	11
25	x 50	20	314	140	95	315	25	16	201	140	95	315	25
32	x 50	23,8	445	140	95	315	30	20	314	140	95	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



DN 15×25 - 50×80



DN 50×80 - 400×500