

TOSACA Model 1400 – Safety Relief Valve

Safety relief valves



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

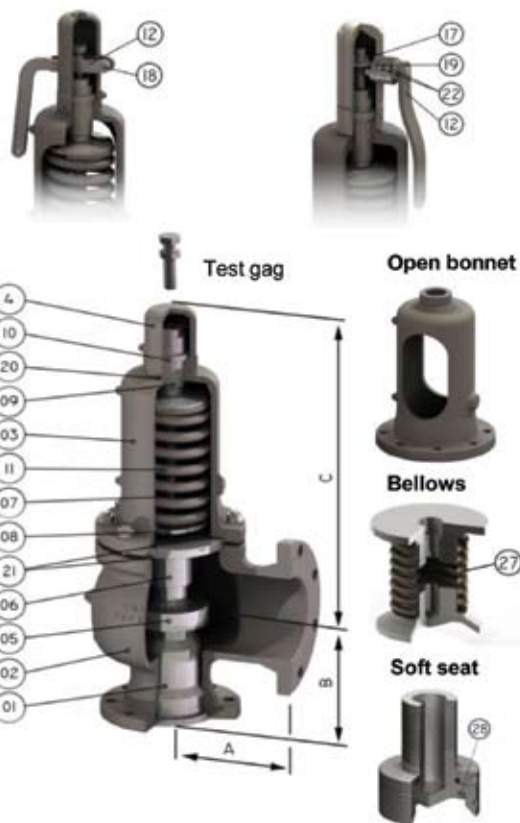
Requirements

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

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

Size Inlet/ Outlet	Carbon Steel / Nodular Iron - PN16/25		Stainless Steel A351 CF3M - PN16/25		Carbon Steel - PN40		Stainless Steel A351 CF3M - PN40		Carbon Steel - PN63 & PN100		Stainless Steel A351 CF3M - PN63 & PN100	
	Price £	Price €	Price £	Price €	Price £	Price €	Price £	Price €	Price £	Price €	Price £	Price €
15 x 25	£459.50	€473.80	£1,611.40	€1,661.70	£528.00	€544.50	£1,702.60	€1,755.80	£1,881.70	€1,940.50	£3,140.10	€3,238.30
20 x 25	£478.50	€493.50	£1,677.00	€1,729.40	£552.60	€569.90	£1,771.90	€1,827.30	£1,897.70	€1,957.00	£3,161.30	€3,260.10
25 x 40	£491.30	€506.60	£1,708.80	€1,762.20	£568.30	€586.00	£1,805.50	€1,861.90				
25 x 50									£2,287.20	€2,358.70	£3,400.60	€3,506.90
32 x 50	£601.30	€620.10	£2,070.80	€2,135.50	£691.30	€712.90	£2,188.10	€2,256.40	£3,000.30	€3,094.10	£4,099.30	€4,227.40
40 x 65	£732.60	€755.50	£2,280.50	€2,351.70	£861.40	€888.30	£2,409.50	€2,484.80	£3,096.20	€3,193.00	£4,448.70	€4,587.70
50 x 80	£910.50	€938.90	£3,391.90	€3,497.90	£1,078.40	€1,112.10	£3,585.60	€3,697.70	£3,975.20	€4,099.40	£5,234.30	€5,397.80
65 x 100	£1,353.00	€1,395.30	£4,203.10	€4,334.40	£1,613.10	€1,663.50	£4,441.00	€4,579.80	£4,535.50	€4,677.30	£8,177.50	€8,433.00
80 x 125	£1,859.10	€1,917.20	£6,847.70	€7,061.70	£2,810.00	€2,897.80	£7,235.30	€7,461.50				
100 x 150	£2,606.60	€2,688.00	£10,597.70	€10,928.90	£4,089.70	€4,217.50	£11,197.60	€11,547.50				
125 x 200	£6,192.70	€6,386.20	£12,833.70	€13,234.80	£8,098.90	€8,352.00	£13,560.10	€13,983.90				
150 x 250	£7,205.60	€7,430.80	£16,803.90	€17,329.00	£10,472.30	€10,799.60						
200 x 300	£10,512.40	€10,840.90	£25,040.60	€25,823.20								
250 x 350	£34,691.10	€35,775.20	£56,331.40	€58,091.80								
300 x 440	£37,754.00	€38,933.80	£59,827.20	€61,696.80								
450 x 500	£51,137.70	€52,735.80	£68,316.80	€70,451.70								



Construction and Materials

Description	Nodular iron PN 16/25	Carbon steel PN 40/63/100	S.S PN 16 to 100
1 Nozzle	AISI-304	AISI-304	AISI-304
2 Body	EN-JS1030	A.C. 1.0619	1.4409
3 Bonnet	EN-JS1030	A.C. 1.0619	1.4409
4 Cap	A351 CF-8	A351 CF-8	A351 CF-8
5* Disc	AISI-316L	AISI-316L	AISI-316L
6 Guide	C. steel. zn.	A.C. + 304 SS	AISI-316L
7 Push Road	AISI-420	AISI-420	AISI-316L
8 Spring Button	C. steel. zn.	C. steel. zn.	AISI-303
9 Adjusting Screw	AISI-303	AISI-303	AISI-303
10 Lock Nut	AISI-303	AISI-303	AISI-303
11* Spring	Carbon steel	Carbon steel	AISI-302
12 Lever	A 351 CF 8	A 351 CF 8	A351 CF-8
17 Release nut	AISI-303	AISI-303	AISI-316
18* Lever axis	AISI-303	AISI-303	AISI-303
19 Packing lever axis	AISI-303	AISI-303	AISI-303
20* Gasket cap	NBR+MF	NBR+MF	PTFE
21* Gasket bonnet	NBR+MF	NBR+MF	PTFE
22* Gasket pack. lever	Viton	Viton	Viton
27* Bellow	AISI-316 TI	AISI-316 TI	AISI-316 TI
28* Soft seat	Viton / PTFE	Viton / PTFE	Viton / PTFE

*Recommended spare parts

Model 1400 – Safety Relief Valve contd.

TOSACA
Safety relief valves

SAFETY RELIEF VALVES

DN	TOSACA Model	DN Inlet x Outlet	EN 1092 Flanges		Orif. (mm)	Area (mm ²)	Face Dimension (mm)			Weight (kg)
			PN E	PN S			A	B	C	
15	1400 PN 16	15 x 25	16	16	13	133	95	95	275	7
	1400 PN 25	15 x 25	25	16	13	133	95	95	275	7
	1400 PN 40	15 x 25	40	16	13	133	95	95	275	7
	1400 PN 63	15 x 25	63	16	13	133	95	100	275	9
	1400 PN100	15 x 25	100	16	13	133	95	100	275	9
20	1400 PN 16	20 x 25	16	16	13	133	95	95	275	7
	1400 PN 25	20 x 25	25	16	13	133	95	95	275	7
	1400 PN 40	20 x 25	40	16	13	133	95	95	275	7
	1400 PN 63	20 x 25	63	16	13	133	95	100	275	9
	1400 PN100	20 x 25	100	16	13	133	95	100	275	9
25	1400 PN 16	25 x 40	16	16	23,8	445	100	105	275	9
	1400 PN 25	25 x 40	25	16	23,8	445	100	105	275	9
	1400 PN 40	25 x 40	40	16	23,8	445	100	105	275	9
	1400 PN 63	25 x 50	63	16	20	314	110	100	275	12
	1400 PN100	25 x 50	100	16	16	201	110	100	275	12
32	1400 PN 16	32 x 50	16	16	29,5	683	110	115	325	12
	1400 PN 25	32 x 50	25	16	29,5	683	110	115	325	12
	1400 PN 40	32 x 50	40	16	29,5	683	110	115	325	12
	1400 PN 63	32 x 50	63	16	23,8	445	110	115	325	15
	1400 PN100	32 x 50	100	16	20	314	110	115	325	18
40	1400 PN 16	40 x 65	16	16	36	1018	115	140	325	14
	1400 PN 25	40 x 65	25	16	36	1018	115	140	325	14
	1400 PN 40	40 x 65	40	16	36	1018	115	140	325	14
	1400 PN 63	40 x 65	63	16	26	531	115	140	325	16
	1400 PN100	40 x 65	100	16	23,8	445	115	140	325	20
50	1400 PN 16	50 x 80	16	16	46	1662	120	150	400	25
	1400 PN 25	50 x 80	25	16	46	1662	120	150	400	25
	1400 PN 40	50 x 80	40	16	46	1662	120	150	400	25
	1400 PN 63	50 x 80	63	16	32	804	120	150	400	32
	1400 PN100	50 x 80	100	16	32	804	120	150	400	35
65	1400 PN 16	65 x 100	16	16	60	2827	140	170	450	36
	1400 PN 25	65 x 100	25	16	60	2827	140	170	450	36
	1400 PN 40	65 x 100	40	16	60	2827	140	170	450	36
	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	85
	1400 PN 25	100 x 150	25	16	90	6362	180	220	663	85
	1400 PN 40	100 x 150	40	16	90	6362	180	220	663	85
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	225	285	760	150
	1400 PN 25	150 x 250	25	16	125	12272	225	285	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
250	1400 PN 16	250 x 350	16	16	200	31415	406	305	1390	750
300	1400 PN 16	300 x 400	16	16	228	40828	406	359	1432	850
400	1400 PN 16	400 x 500	16	16	304	72950	533	432	1943	1850



SAFETY RELIEF VALVES