

**TOSACA**  
Safety relief valves

## Model 1400 – Safety Relief Valve



### 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

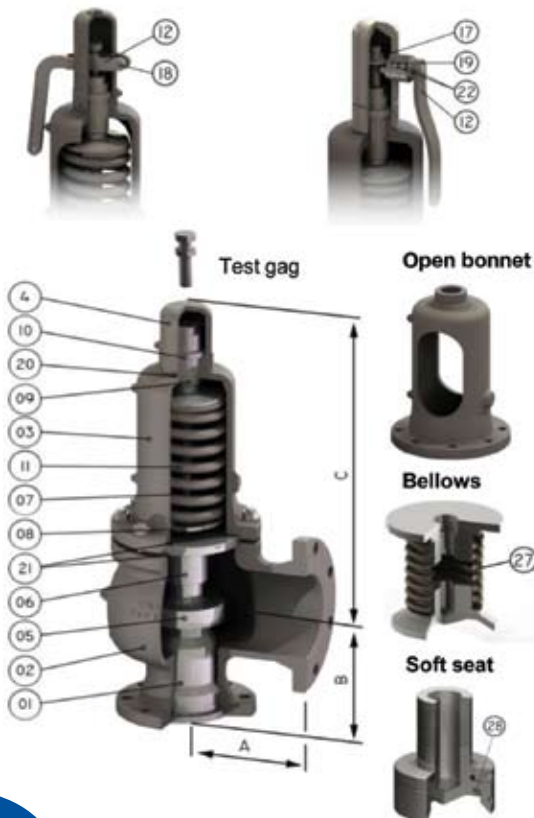
Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg
Seat	metal-metal, PTFE, Viton, Nozzle SS+Stellite
Overpressure	10% for steam, gas and vapour, 20% for fire exposure, 25% for liquid on thermal relief
Blowdown	7%
Tolerance Set pressure	± 3%
Discharge coefficients	k = 0,64 for gases / 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
15 x 25	£429.00	£1,504.50	£493.00	£1,589.70	£1,757.00	£2,932.00
20 x 25	£446.80	£1,565.80	£516.00	£1,654.50	£1,771.90	£2,951.70
25 x 40	£458.70	£1,595.50	£530.60	£1,685.80		
25 x 50					£2,135.60	£3,175.10
32 x 50	£561.50	£1,933.50	£645.50	£2,043.00	£2,801.40	£3,827.60
40 x 65	£684.10	£2,129.30	£804.20	£2,249.80	£2,891.00	£4,153.80
50 x 80	£850.10	£3,167.00	£1,006.90	£3,347.90	£3,711.60	£4,887.30
65 x 100	£1,263.30	£3,924.40	£1,506.10	£4,146.60	£4,234.80	£7,635.40
80 x 125	£1,735.80	£6,393.80	£2,623.70	£6,755.70		
100 x 150	£2,433.80	£9,895.10	£3,818.60	£10,455.20		
125 x 200	£5,782.10	£11,982.90	£7,562.00	£12,661.20		
150 x 250	£9,778.40	£15,689.90	£9,778.40	£16,578.00		
200 x 300	£10,011.80	£23,380.60	£10,011.80	£23,380.60		
250 x 350	£18,614.10	£52,597.00	£44,767.20	£52,597.00		
300 x 400	£35,251.20	£55,861.00	£49,482.20	£55,861.00		
450 x 500	£47,747.70	£63,787.90	£56,327.30	£63,787.90		



### 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 <sup>2</sup> )	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 x100	16	16	60	2827	140	170	450	36
	1400 PN 25	65 x100	25	16	60	2827	140	170	450	36
	1400 PN 40	65 x100	40	16	60	2827	140	170	450	36
	1400 PN 63	65 x100	63	16	48	1810	140	170	450	50
	1400 PN100	65 x100	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

