

TOSACA
Safety relief valves

Model 1216 B – Safety Relief Valve

Description

Type	Safety and Relief valve
Connections	PN16, PN40 ANSI: 150# or 300# Threaded BSP / NPT
Rating	PN-40
Material	Stainless steel 316 L SS
Temperature range	-28 to +350°C

Requirements

Calculation	EN-4126-1 / 7
Design	EN-12516-1, EN-4126-1 / 7 DIN 259, ANSI B2.1 and ANSI B16.5
Materials	EN
Inspection	EN-4126-1 / 7



Size (Inlet/Outlet)	Flange	£	€
Flanged Inlet - Threaded outlet			
1/2" x 1"	ANSI 150	£411.20	€431.80
3/4" x 1"	ANSI 150	£419.10	€440.10
1" x 1"	ANSI 150	£431.00	€452.50
1/2" x 1"	ANSI 300	£415.20	€435.90
3/4" x 1"	ANSI 300	£425.10	€446.30
1" x 1"	ANSI 300	£434.90	€456.70
15 x 1"	PN16	£399.40	€419.30
20 x 1"	PN16	£407.30	€427.60
25 x 1"	PN16	£415.20	€435.90
15 x 1"	PN40	£405.30	€425.60
20 x 1"	PN40	£415.20	€435.90
25 x 1"	PN40	£419.10	€440.10
Both connections flanged			
1/2" x 1"	ANSI 150	£638.60	€670.50
3/4" x 1"	ANSI 150	£646.50	€678.80
1" x 1"	ANSI 150	£680.10	€714.10
1/2" x 1"	ANSI 300	£670.20	€703.70
3/4" x 1"	ANSI 300	£711.70	€747.30
1" x 1"	ANSI 300	£757.20	€795.10
15 x 1"	PN16	£601.00	€631.10
20 x 1"	PN16	£601.00	€631.10
25 x 1"	PN16	£622.80	€653.90
15 x 1"	PN40	£664.30	€697.50
20 x 1"	PN40	£690.00	€724.50
25 x 1"	PN40	£711.70	€747.30

Technical Information

Applications	Steam, gases, vapours and liquids
Min. Set pressure	0,2 barg
Overpressure	10%
Blowdown	10%
Tolerance Set pressure	Gases 10%, liquids 20%
Discharge coefficients	± 3%
	k=0,55 for gases
	k=0,48 for liquids

Construction and Materials

Description	Material
1 Nozzle	A 351 CF-3M
2 Body	A 351 CF-3M
4 Cap	A 351 CF-8
5* Disc	AISI 316 L
6 Guide	A 351 CF-3M
7 Push Rod	AISI 316 L
8 Spring Button	AISI 303
9 Adjusting Screw	AISI 303
10 Lock nut	AISI 303
11* Spring	AISI 302
12 Lever	A 351 CF-8
17 Release nut	AISI 316
18 Lever axis	AISI 303
19 Packing lever axis	AISI 303
20* Gasket	PTFE
21* Gasket	PTFE
22 Gasket	Viton
28* Soft seat	Viton / PTFE

* Recommended spare parts

Dimensions (mm)

ANSI			EN			Outlet flanged		Outlet threaded		Weight (kg)		
Inlet	Outlet		Inlet	Outlet		Orifice (mm)	Area (mm ²)	A (mm)	A (mm)		B (mm)	C (mm)
150# RF 300# RF	150# RF	BSP NPT	PN 16 PN40	PN16	BSP NPT							
1/2"		3/4"	15		3/4"	13	133		45	90	155	3
1/2"	1"	1"	15	25	1"	13	133	70	45	90	155	3
3/4"	1"	1"	20	25	1"	14	154	70	45	90	155	3,2
3/4"	1"	1"	20	25	1"	14	154	70	45	90	155	3,2
1"	1"	1"	25	25	1"	16	201	70	45	90	155	3,5

