

Single & Dual Spring Safety Valve

Description

These high lift safety valves are our standard recommendation for shell boilers and other plant items with design pressure up to a max. 24 bar. this valves have open bonnet, lifting lever and polymeric seal. Discharge capacities in accordance with BS 6759 parts 1.



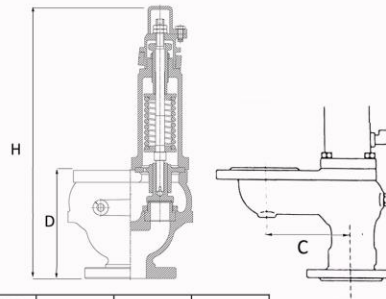
Applications

Single and Dual spring safety valve are suitable for: steam or hot water systems.

Sizes and pipe connections

Dual spring safety valve

Dimensions are approximate and in mm.

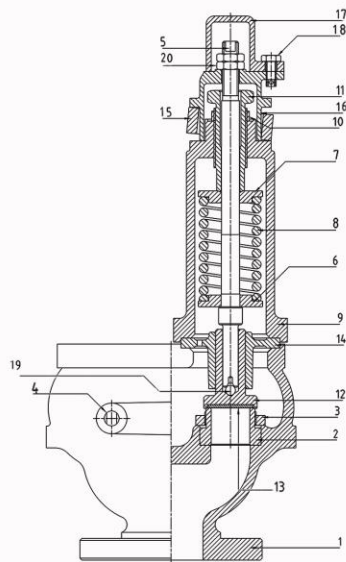


Flange standard type	Inlet flange				Outlet flange		App. C	App. D	App. H		
	Nominal size	Size		Size							
Iron body B.S 10 Table F	1 1/2"	K		E		165	220	550			
		IN	DN	IN	DN						
	2"	3	80	4"	100				185	242	610
	2 1/2"	4	100	5"	125				210	264	653
	3"	5	125	6"	150				230	285	730
Iron body B.S4504 PN 16	1 1/2"	2 1/2	65	3"	80	165	220	550			
	2"	3	80	4"	100	185	242	610			
	2 1/2"	4	100	5"	125	210	264	653			
	3"	5	125	6"	150	230	285	730			
Iron body B.S 1560 Class 150	1 1/2"	2 1/2	65	3"	80	165	220	550			
steel body B.S 10 Table H	1 1/2"	2 1/2	65	3"	80	165	220	550			
	2"	3	80	4"	100	177.5	252	620			
	2 1/2"	4	100	5"	125	210	275	664			
	3"	5	125	6"	150	230	285	730			
steel body B.S4504 PN 40	1 1/2"	2 1/2	65	3"	80	165	220	550			
	2"	3	80	4"	100	177.5	252	620			
	2 1/2"	4	100	5"	125	210	275	664			
	3"	5	125	6"	150	230	285	730			
Steel body B.S 1560 Class 300	1 1/2"	2 1/2	65	3"	80	165	220	550			

C : center to center

Single & Dual Spring Safety Valve

Material



Num.	Part Name	Material	
1	Body	Cast steel (A216-WCB)	Cast Iron (GG25)
2	Seat ring	Stainless steel	
3	Seat nut	Bronze	
4	Locking stud	Stainless steel	
5	stem	Stainless steel	
6	Bottom spring seat	ST37	
7	Upper spring seat	ST37	
8	Spring	Alloy steel	
9	Spring cover	Cast Iron (GG25)	
10	Fixed bushing	Brass	
11	Adjusting screw	Brass	
12	Disk	Stainless steel	
13	Packing	PTFE	
14	Disk bushing	Bronze	
15	Wrench	Cast Iron (GG25)	
16	Stem cover	Cast Iron (GG25)	
17	Locking cover	Cast iron (GG25)	
18	Locking screw	Steel	
19	Ball	Stainless steel	
20	Hexagon nut	Steel	

Capacities of dual spring safety valve for saturated steam

Dual spring safety valve - Dry saturated steam

Set Pressure bar(gauge)	Size Nominal DN 40 - 1½ Kg/h	Size Nominal DN 50 - 2" Kg/h	Size Nominal DN 65 - 2½ Kg/h	Size Nominal DN 80 - 3" Kg/h
2	1562	2440	4124	6248
10	5860	9151	15468	23431
20	11231	17540	29647	44909

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Limiting Conditions

Body Material	Set pressure(Gage)	Temperature	Type of sealing	Single spring		Double spring	
				Flanged: BS 10	BS 4504 BS 1560	Flanged: BS 10	BS 4504 BS 1560
Cast iron BS 1452 Grade 220 (cast-on 'CI')	Up to 13 bar	Up to 220°C 428°F	polymeric	Flanged: BS 10	BS 4504 BS 1560	Flanged: BS 10	BS 4504 BS 1560
Cast steel to ASME Specification A216-WCB (cast-on 'WCB')	Up to 24 bar	Up to 224°C 435°F	polymeric	Flanged: BS 10	BS 4504 BS 1560	Flanged: BS 10	BS 4504 BS 1560

Installation

- the centre line of the spring housing should be vertically above the valve.
- the inlet connection to the valve should be as short as possible and no smaller in area than the flow diameter of the valve.
- the outlet pipe work should also be short, of a size no smaller in area than the valve outlet bore size.
- for steam or air service, discharge lines should rise vertically and should be fitted with drain.
- having chosen the appropriate safety valve to suit the working conditions it is equally important to ensure that the mounting to the pressure vessel and the discharge pipe work are of the correct design, size and length.

How to order

connections size

working pressure & temperature (bar g),(C)

set pressure:---(bar g)

condition of gas or liquid medium