

Description

The SF2U type is a double spring flanged safety valve suitable for Steam, Hot and Cold water.

Limiting Conditions

Body Design Condition	PN16
Maximum Design Temperature	225 °C
Maximum Cold Hydraulic Test Pressure	30 kgf/cm ²
Maximum Allowable Pressure	15 kgf/cm ²
Minimum Allowable Pressure	3 kgf/cm ²



Operating Range

3 to 15 kgf/cm² by the order.

Note: 10 kgf/cm² set pressure is always available. The other pressure sets will be available by the order.

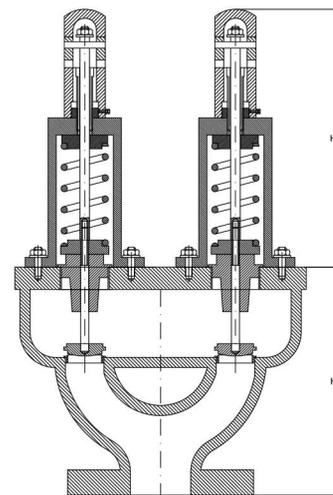
Sizes and Pipe Connections

DN 65X80 Flanged (DIN 2502)

Dimensions / Weights (Approximate) mm and kg

Connection		H1	H2	Weight
Inlet	Outlet			
DN 65	DN 80	225	325	42

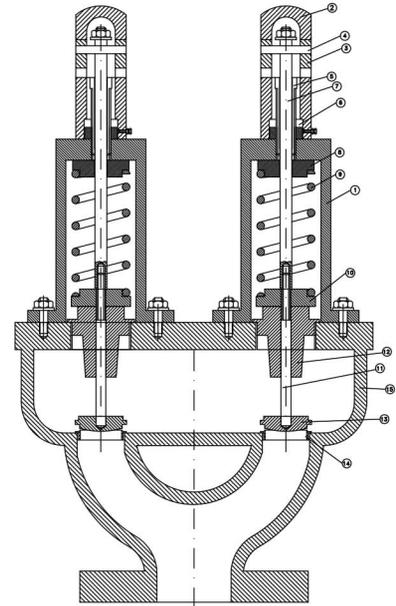
Constructions are a bit different according the sizes.



Double Spring Safety Valves - SF2U

Materials

No.	Part	Material
1	Bonnet	GG 25
2	Cap	Gray Cast
3	Lever	Gray Cast
4	Pin	C.S.
5	Adjusting Bolt	Brass
6	Adjusting Nut	Brass
7	Spindle	C.S.
8	Spring Washer Up	Gray Cast
9	Spring	Cadmium plated
10	Spring Washer Down	G.G. 25
11	Disc Rod	AISI 304
12	Guide	Brass
13	Disc	AISI 304
14	Seat	AISI 304
15	Body	GG 25



Safety Valves Capacities for Steam (kg/h)

Size	Set pressure kgf/cm ²					
	3	4	6	8	10	15
DN 65X80	1600	1800	2600	3300	4100	5900

Safety Valves Capacities for Hot and Cold Water (kg/h 10³)

Size	Set pressure kgf/cm ²					
	3	4	6	8	10	15
DN 65X80	12	14	16	20	24	30

Calculation Formula for Relieving Capacity

Considering thermal input of the vessel

$$W = 0.840 \times 10^{-3} Q \quad W = \text{Relieving capacity (kg/h)} \quad Q = \text{Thermal input (kcal/h)}$$

Installation

The safety valve should always be fitted with the center line of the spring housing vertically above the valve.

Note: The condensed drain must be fitted.

How to Order

Example: SF2U – DN65X80, Set Pressure 6 kgf/cm² for steam.