

FLANGED PN40 QUICK RELIEF VALVE

TECHNICAL PASSPORT

FLANGED PN40 QUICK RELIEF VALVE

SD5269

APPLICATION

TECOFI quick relief valve is used to ensure the protection of water transfer networks against overpressure and water hammer.



Fluids: water, waste water, compatible non-compressible liquids.

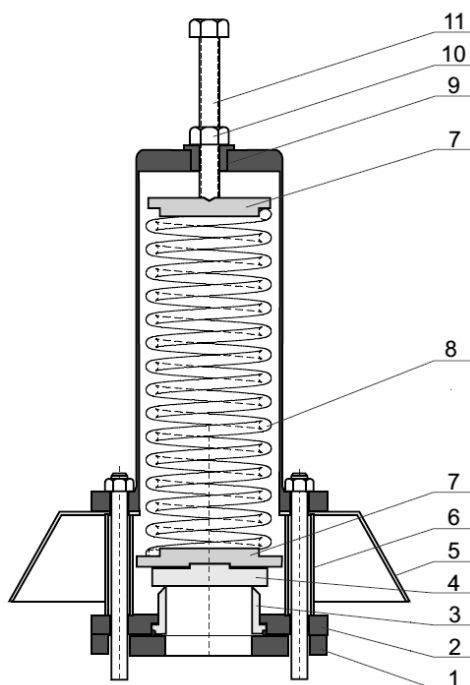
GENERAL CHARACTERISTICS

Range: from DN50 to DN300.

- Powder epoxy coated cover - 250µ thickness DIN 30677.
- Evacuation of large quantities of fluid
- Adjustable set pressure
- PN40 flange connection according to standard 1092-1.



CONSTRUCTION



Pos.	Description	Material
1	Flange	Steel EN 10025
2	Lower plate	Steel EN 10025
3	Nozzle	Stainless steel
4	Valve disc	Stainless steel
5	Cover	Steel EN 10025
6	Deflector	Steel
7	Spring lower cap	Steel EN 10025
8	Spring	Steel DIN 17223
9	Guide shaft	Brass
10	Nut	Stainless steel
11	Adjusting screw	Stainless steel

PRODUCT APPROVALS



Tecofi France

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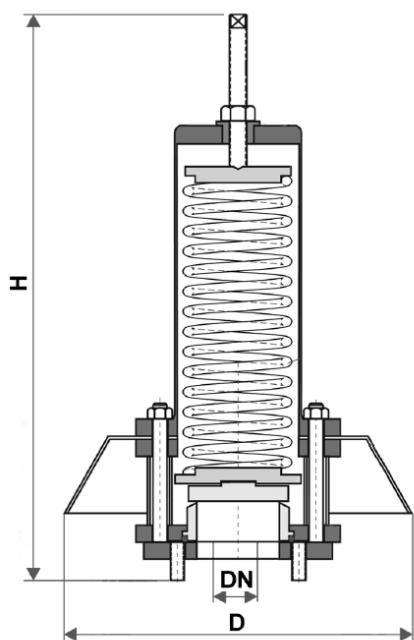


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DIMENSIONS

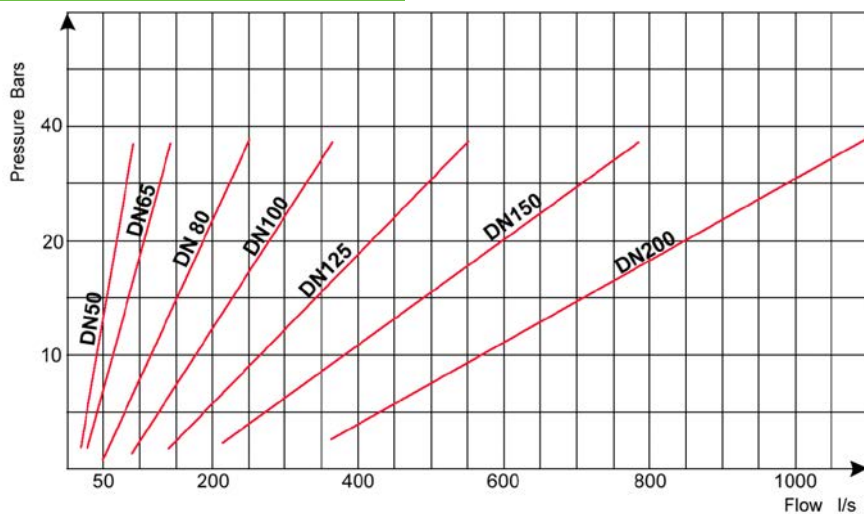


DN mm	D	H	Weight (kg)
50	400	600	29
60-65	400	600	30
80	400	680	42
100	400	700	50
125	470	770	81
150	530	770	93
200	600	800	190
250	600	800	175
300	700	840	230

WORKING CONDITIONS

Maximum working pressure: 40 bar

RANGE OF PRESSURES AND FLOW RATES



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DN mm	Pressure range (bar)	Maximum over pressure (bar)	Flow Q max (l/s)
50	25 - 40	3	150
60-65	25 - 40	3.8	285
80	25 - 40	3.9	350
100	25 - 40	4.1	480
125	25 - 40	4.2	695
150	25 - 40	4.2	995

The relief valve set pressure should be 5 to 10% above the working pressure.

Setting example:

For a DN150 valve on circuit with flow rate 900 l/s and working pressure (WP) 30 bar.

The setting pressure is : $30 \text{ bar} + 10\% \cdot \text{WP} = 30 \text{ bar} + 3 \text{ bar} = \mathbf{33 \text{ bar}}$

The overpressure will be : $4.2 \cdot 900 / 995 = \mathbf{3.8 \text{ bar}}$

The maximum pressure will be : $33 + 3.8 = \mathbf{36.8 \text{ bar}}$

The photographs and technical art works are not contractual. The specifications of the presented products are open to modifications without previous advice

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