FLANGED PN16
QUICK RELIEF VALVE

Tecofi
VALVE MANUFACTURER - FRANCE

TECHNICAL PASSPORT

FLANGED PN16 QUICK RELIEF VALVE

SD5249

APPLICATION

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

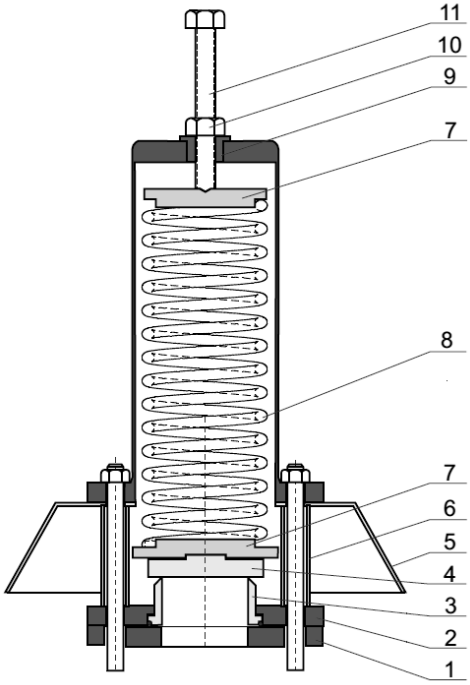
Fluids: water, waste water, compatible non-compressible liquids.

GENERAL CHARACTERISTICS

Range: from DN50 to DN300.

- Powder epoxy coated cover - 250µ thickness DIN 30677.
- Evacuation of large quantities of fluid
- Adjustable set pressure
- PN16 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	Defector	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

EAC

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ISO 9001
ISO 14001
BUREAU VERITAS Certification

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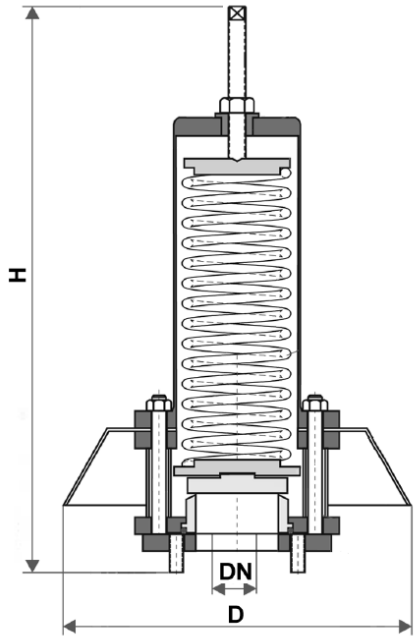
DIMENSIONS

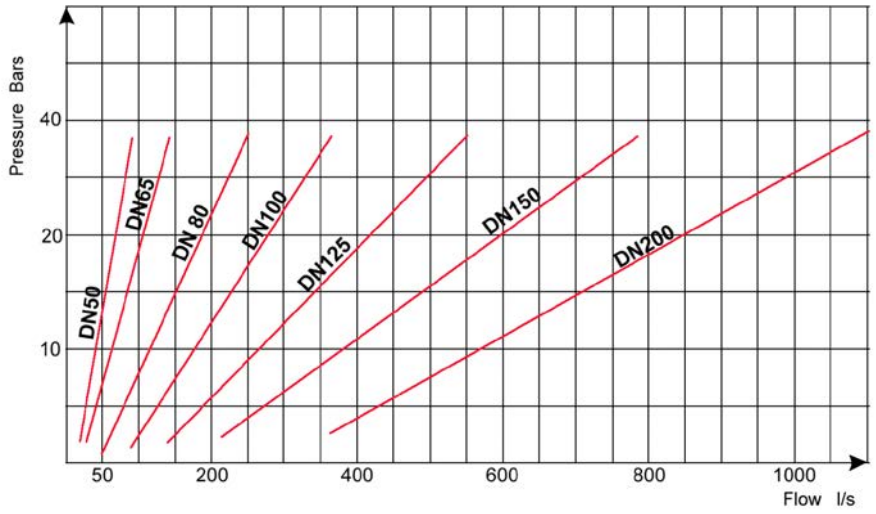


DN mm	D	H	Weight (kg)
50	400	600	28
60-65	400	600	29
80	400	600	33
100	400	680	44
125	470	700	50
150	530	730	75
200	600	780	145
250	600	800	160
300	700	820	210

WORKING CONDITIONS

Maximum working pressure: 16 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	1 - 7	1.2	32
	6 - 12	1.8	48
	10 - 17	2.3	65
60-65	1 - 7	1.5	46
	6 - 12	1.8	65
	10 - 17	2.5	85
80	1 - 7	1.5	85
	6 - 12	2	130
	10 - 17	2.5	160
100	1 - 7	1.6	120
	6 - 12	2	220
	10 - 17	2.6	260
125	1 - 7	1.8	160
	6 - 12	2.5	290
	10 - 17	2.8	350
150	1 - 7	2	280
	6 - 12	2.5	400
	10 - 17	3	480
200	1 - 7	2	390
	6 - 12	2.7	680
	10 - 17	3.5	886
250	1 - 7	2.2	750
	6 - 12	2.9	1050
	10 - 17	3.8	1400
300	1 - 7	2.3	1100
	6 - 12	3.1	1550
	10 - 17	4.0	2000

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 350 l/s and working pressure (WP) 11 bar.
The setting pressure is : 11 bar + 10%*WP = 11 bar + 1.1bar = **12.1 bar**
The overpressure will be : 2.5*350/400 = **2.2 bar**
The maximum pressure will be : 12.1 + 2.2 = **14.3 bar**

SD5249_EN // Réalisé le 03/10/2022 // Version A

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