



# **PRESSURE RELIEF VALVE**

**SINCE 1922,  
PRECISION MADE GREAT**

**TASSALINI** 

## **PRESSURE RELIEF VALVES**

### **APPLICATION**

Pressure relief valves are designed to relieve excess pressure in processing pipelines. As soon as the pressure in the pipeline exceeds the pre-set maximum operating pressure the valve opens and relieves the excess pressure. Once the pressure returns within the pre-set range the valve closes again.

### **FEATURES**

The pressure control element is located inside the valve body to ensure that no accidental operation of the valve occurs.

The valve opening pressure is adjustable from 0.5 to 5 bar. On request valves can be supplied adjustable up to 12 bar.



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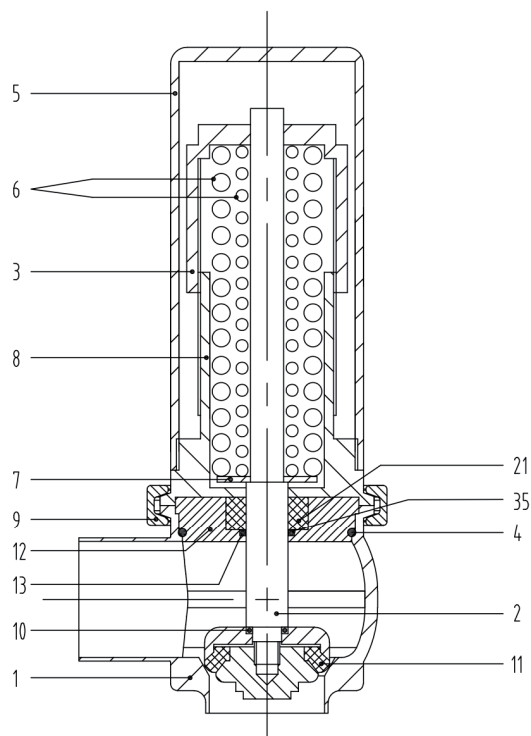
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## PRESSURE RELIEF VALVES

### COMPONENTS



PARTS LIST		
1	Valve casing	Aisi 304L/Aisi 316L
2	Head seal	Aisi 304L/Aisi 316L
3	Adjusting cap	Brass
4	OR seal ring	NBR/VMQ/EPDM/FPM-FKM
5	Cover	Aisi 304L
6	Spring	Aisi 304L
7	Washer	Aisi 304L
8	Main assembly	Aisi 304L
9	Clamp	Aisi 304L
10	OR seal ring	NBR/VMQ/EPDM/FPM-FKM
11	Lip seal	PTFE/VMQ/EPDM/FPM-FKM
12	Head	Aisi 316L
13	OR seal ring	NBR/VMQ/EPDM/FPM-FKM
21	Bush	PTFE
35	Washer	PTFE

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## PRESSURE RELIEF VALVES

**TECHNICAL DATA** Max. product pressure: 12 bar.

General temperature range: -10°C +95°C (+15°F +205°F).

Seals temperature range:

- PTFE: -10°C +150°C (+15°F +300°F);
- NBR: -10°C +100°C (+15°F +210°F);
- VMQ: -50°C +200°C (-60°F +390°F);
- EPDM: -30°C +140°C (-20°F +280°F);
- FPM-FKM: -15°C +220°C (+5°F +430°F);

NBR, EPDM, VMQ, FPM-FKM seal rings and OR: 3-A and FDA approved.

Inside finish of parts in contact with product: Max Ra 0.8 µm.

Production range: DN 25 to DN 80, 1" to 3".

Connections: welding end, threaded end, liner and nut end, ferrule end.

Standards: DIN, SMS, RJT BS, IDF ISS, CLAMP.

Steel grades: Aisi 304L, Aisi 316L.

## OPERATING PRESSURE TABLES

Pressure relief valves DIN standards:

SPRING CODE	VALVE SIZE					
	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80
630 25/28 06	0.5-5 bar	0.5-3 bar	0.5-3 bar	0.5-1.5 bar	0.5-0.9 bar	0.4 bar
630 34/40 06	0.5-8 bar	0.5-5 bar	0.5-5 bar	0.5-3 bar	0.5-1.8 bar	0.5-0.9 bar
630 51/52 06	0.5-15 bar	0.5-7 bar	0.5-7 bar	0.5-5 bar	0.5-3.1 bar	0.5-2.2 bar
630 63/85 06	0.5-25 bar	0.5-12 bar	0.5-12 bar	0.5-7 bar	0.5-4.5 bar	0.5-3.5 bar

Pressure relief valves SMS, RJT BS, IDF ISS, Clamp standards:

SPRING CODE	VALVE SIZE				
	1"	1 ½"	2"	2 ½"	3"
630 25/28 06	0.5-5 bar	0.5-3 bar	0.5-1.5 bar	0.5-1 bar	0.5 bar
630 34/40 06	0.5-8 bar	0.5-5 bar	0.5-3 bar	0.5-2 bar	0.5-1 bar
630 51/52 06	0.5-15 bar	0.5-7 bar	0.5-5 bar	0.5-3.5 bar	0.5-2.5 bar
630 63/85 06	0.5-25 bar	0.5-12 bar	0.5-7 bar	0.5-5 bar	0.5-4 bar

 = operating pressure range with standard springs



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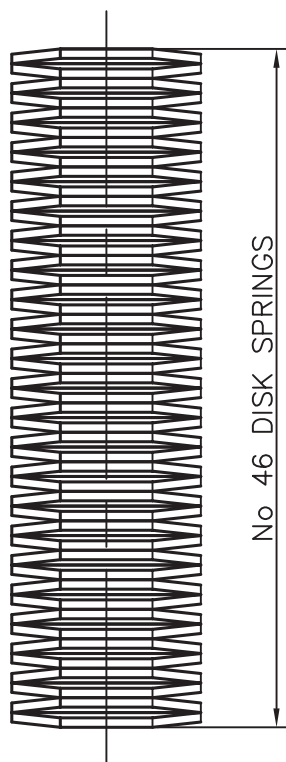
## PRESSURE RELIEF VALVES

### OPERATING PRESSURE TABLES

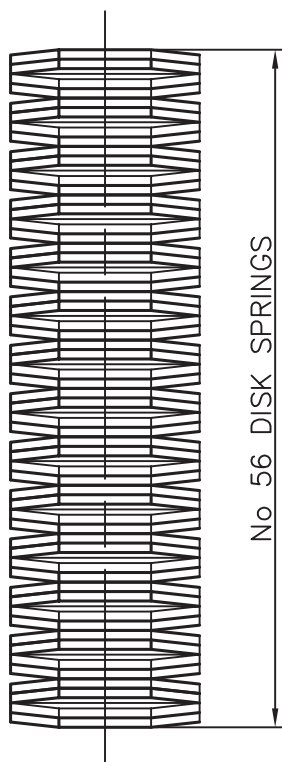
Pressure relief valves are adjustable from 0.5 to 5 bars with standard springs. On request, using bigger springs, they are adjustable up to 12 bars. 1 1/2" - DN 40, 2" - DN 50 and 2 1/2" - DN 65 valves are adjustable up to 12 bars using disc springs.

Pressure relief valves with disc springs:

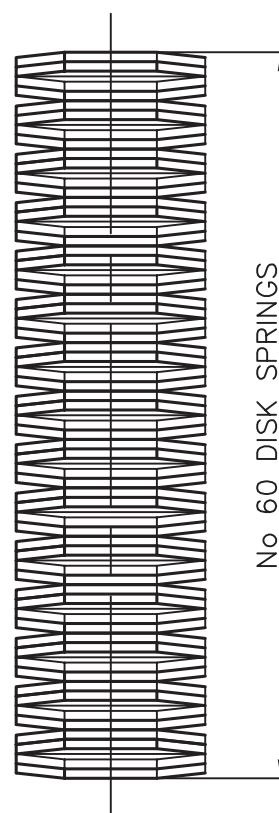
NO. SPRINGS	VALVE SIZE		
	1 1/2" - DN 40	2" - DN 50	2 1/2" - DN 65
46	8 bar	8 bar	
56	9-12 bar	9-12 bar	8-10 bar
60			11-12 bar



1 1/2" - DN 40



2" - DN 50



2 1/2" - DN 65

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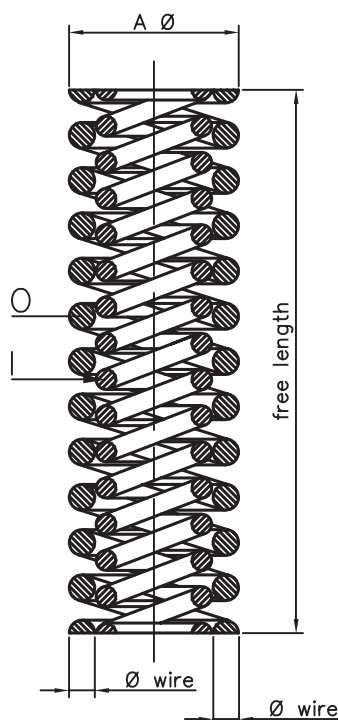


## PRESSURE RELIEF VALVES

### SPRINGS

Spring kit dimensions (inside spring I + outside spring O):

VALVE SIZE	SPRING CODE	A Ø	Ø WIRE	NO. COILS	FREE LENGTH
25/28 - I	630 25/28 6	17.9 mm	2.2 mm	15	95 mm
25/28 - O	630 25/28 6	26 mm	3 mm	13	95 mm
34/40 - I	630 34/40 6	19.1 mm	2.8 mm	15	95 mm
34/40 - O	630 34/40 6	27 mm	3.5 mm	11 ¾	95 mm
51/52 - I	630 51/52 6	20.2 mm	3.5 mm	16	95 mm
51/52 - O	630 51/52 6	29.7 mm	4.5 mm	13	95 mm
63/70 - I	630 63/70 6	21 mm	4 mm	14 ¾	95 mm
63/70 - O	630 63/70 6	32 mm	5 mm	10	95 mm



*For further technical information, section and dimensional drawings and range of models available please refer to our series of product brochures, technical catalogues and valve manuals.*