

# DATASHEET

## ADJUSTABLE PRESSURE RELIEF VALVE

### Specifications

- › Fluid suitability: non-dangerous fluids only
- › Threading: UNI EN ISO 228-1
- › Working temperatures:  
Metal pressure containing member from 0°C to 200°C
- › Nominal pressure: from 3/8" to 2" PN 16

### Dimensions

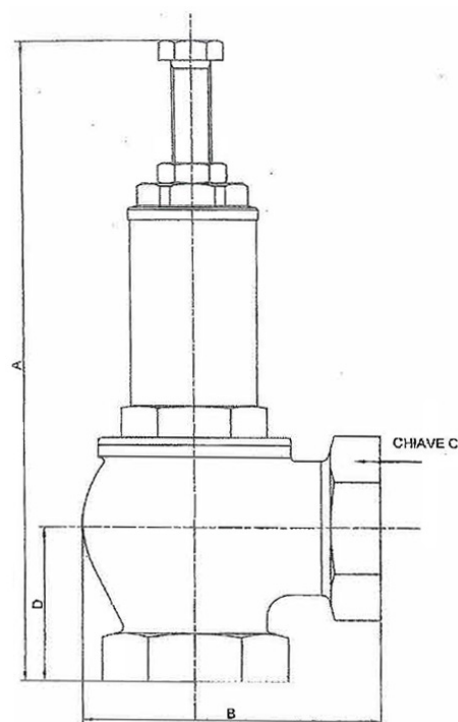
DN	1" Model	2" Model
<b>A</b>	<b>163</b>	<b>247</b>
<b>B</b>	<b>76</b>	<b>124</b>
<b>C</b>	<b>41</b>	<b>71</b>
<b>D</b>	<b>40</b>	<b>60</b>

### Reference Rules

Code	Description
<b>UNI EN ISO 228-1:2003</b>	Piping threads for non-seal fit on the thread - designation. Dimensions and tolerances.
<b>UNI EN 1333:2007</b>	Components of piping networks - NP definition and selection.
<b>UNI EN 12164:2001</b>	Copper and copper alloys - Turnery bars.
<b>UNI EN 12165:1999</b>	Copper and copper alloys - Products for machined and raw product pressing.
<b>UNI EN 12420:2000</b>	Copper and copper alloys - Forged and pressed products.
<b>UNI EN 1982:2008</b>	Copper and copper alloys - Ingots and castings.
<b>UNI 10197:1993</b>	Calibration benches for safety valves - General requirements.
<b>UNI EN ISO 4126-1:2006</b>	Safety valves for pressure instruments - Generality, requirements and tests.
<b>UNI EN 12516-3:2003</b>	Valve - Shell design strength

### Design

- › The article has been realized using the standard BS 5154 with regard to the wall thickness of the parts under pressure,
- › Moreover the realized check of the valve walls has been confirmed by tests in compliance with EN 12516-3.
- › **Marking:** PED direction



MEASURE	Ø SEAT [mm]	AREA [cm <sup>2</sup> ]
1"	25,70	5,18
2"	48,00	18,09

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### Test / Trial / Calibration Modality

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1. Install on the trial bench the valve to be calibrated with free spouts exposed to the atmosphere.
2. Install the manometer with class 0.6.
3. Increase slowly the pressure at the source of the valve until you cause the start of the opening that can be visually detected or heard.
4. The requested value of the opening pressure is obtained by means of following adjustments, acting on the calibration regulation plug.
5. Once you have obtained the desired value, repeat twice the calibration control to check the reproducibility.
6. Tighten the locking jam nut to avoid variations in the calibration pressure.

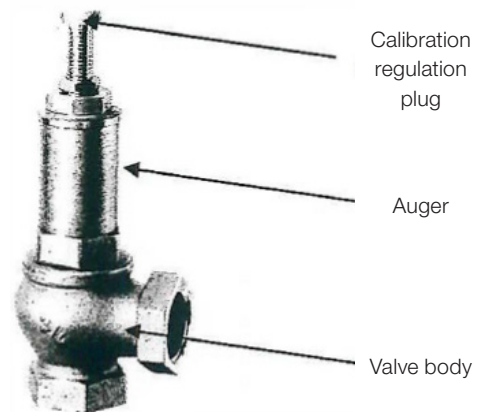
### Start-Up, Application & Maintenance

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- › The article is a conveyed-exhaust square limiting pressure valve.
- › If the valve is disassembled, modified or tampered with, the concern declines all responsibility.
- › The use conditions are the following:

Sizes 3/8" to 2"

- › 16 bar max. working pressure for non-dangerous liquids
- › 200°C max. working temperature for metal pressure-containing member



### Installation Instructions

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- › For proper installation, the valve has to be installed vertically, otherwise its operation is compromised; however we strongly recommend to convey the valve outlet to an exhaust unit
- › For thread sealing, use a material compatible with the used fluid.
- › Screw the valve on the threaded pipes, positioning the key exclusively on the special hexagonal parts until the valve is blocked on the pipe.
- › Do not exert any strength on the auger.
- › The exhaust piping has to be properly supported not to stress the valve structure; then use heavy clamps to support the pipes.
- › If you use a pipe, it is necessary to place it in a slightly inclined position.
- › Exhausted fluid must be properly conveyed and deviated downwards to prevent its return to the valve and not alter the calibration pressure.

**WARNING!** Pay as much attention when installing the valve, as the discharge occurs directly with no protection. Valve must be positioned in a way not to be harmful to people safety / physical integrity, in case of opening of the same valve.

No maintenance operations are expected.

Do not remove the limiting pressure valve and not modify or tamper.

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The company reserves the right to make any modifications to products, if 'do not alter their functions' without prior notification to customers.