



# MEMBRANE SAFETY VALVE

Fixed calibration

## Product informations

Safety valve with INAIL qualified and calibrated diaphragm, which automatically, without the presence of energy other than that of the pressurized fluid, discharges a sufficient amount of fluid to prevent the predetermined safety pressure from being exceeded to protect the heat generator and the system. This valve is used in closed circuit heating systems with a rated output of more than 35 kW and using hot water with a temperature below 110°C; causes of valve tripping can be:

- elevation of the operating fluid temperature above the preset maximum value resulting in uncompensated expansion
- insufficient dimensioning of the expansion tank
- excessive circuit filling pressure

| VALVE STRUCTURE |                     |
|-----------------|---------------------|
| 1               | VALVE BODY          |
| 2               | SHUTTER             |
| 3               | MEMBRANE            |
| 4               | CAP                 |
| 5               | CALIBRATION NUT     |
| 6               | MANUAL EXHAUST KNOB |
| 7               | SHUTTER BEAM        |
| 8               | HAIRSPRING          |



## Technical Features

|                                  |                                                                                                                                                                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRESSURE RATING</b>           | PN10                                                                                                                                                                                                                                                                               |
| <b>OVERPRESSURE</b>              | 10%                                                                                                                                                                                                                                                                                |
| <b>CALIBRATION PRESSURE</b>      | 2,5 BAR                                                                                                                                                                                                                                                                            |
| <b>CLOSING SCRAP</b>             | < 20%                                                                                                                                                                                                                                                                              |
| <b>MAX OPERATING TEMPERATURE</b> | - 10°C ÷ + 120°C                                                                                                                                                                                                                                                                   |
| <b>MATERIALS</b>                 | <ul style="list-style-type: none"> <li>• BODY AND CAP: BRASS CW617N</li> <li>• MEMBRANE AND SEALS: EPDM</li> <li>• KNOB FOR MANUAL DISCHARGE: SHOCKPROOF TECHNOLOGY</li> <li>• CALIBRATION SPRING: C100 STEEL WITH GALVANIC PROTECTION</li> <li>• SHUTTER: BRASS CW617N</li> </ul> |

| SKU   | CONNECTION                           | BAR PRESSURE |               |             | ORIFICE DIAMETER | COEFFICIENT OF EFFLUX | DISCHARGE FLOW RATE | RATED POWER OF THE GENERATOR |        |
|-------|--------------------------------------|--------------|---------------|-------------|------------------|-----------------------|---------------------|------------------------------|--------|
|       |                                      | SETTING      | MAX DISCHARGE | CLOSING MIN |                  |                       |                     | KCAL/H                       | KW     |
| 70152 | 1/2" X 3/4" FF WITH INCREASED OUTPUT | 2,5          | 2,75          | 2           | Ø 15 MM          | 0,71 K                | 221,40 KG/H         | 110.703                      | 128,41 |
| 70153 | 3/4" X 1" FF WITH INCREASED OUTPUT   | 2,5          | 2,75          | 2           | Ø 20 MM          | 0,80 K                | 443,52 KG/H         | 221.760                      | 257,24 |
| 70154 | 1" X 1" 1/4 FF WITH INCREASED OUTPUT | 2,5          | 2,75          | 2           | Ø 25 MM          | 0,71 K                | 615,03 KG/H         | 307.515                      | 356,71 |



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| SKU   | DN             | W     | H      | A       |
|-------|----------------|-------|--------|---------|
| 70152 | 1/2" X 3/4" FF | 37 MM | 119 MM | 24 MM   |
| 70153 | 3/4" X 1" FF   | 48 MM | 165 MM | 29 MM   |
| 70154 | 1" X 1" 1/4 FF | 54 MM | 190 MM | 34,5 MM |

| SKU         | MODEL                                           | PRICE                |
|-------------|-------------------------------------------------|----------------------|
| 00000070152 | MEMBRABE SAFETY VALVE - FF IN Ø 1/2" - OUT 3/4" | €112.85 VAT EXCLUDED |
| 00000070153 | MEMBRABE SAFETY VALVE - FF IN Ø 3/4" - OUT 1"   | €167.15 VAT EXCLUDED |
| 00000070154 | MEMBRABE SAFETY VALVE - FF IN Ø 1" - OUT 1" 1/4 | €335.45 VAT EXCLUDED |





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