

# PRESSURE RELIEF VALVES

## SDD 911



- All wetted parts in plastic
- Protection of pumps and process lines
- Body parts in PPH
- PTFE coated diaphragm
- Adjustable from 0.5 to 10 bar
- From ND 10 to ND 25

### APPLICATION AND FITTING

A pressure relief valve SDD 911 limits the static pressure to a constant and maximal settled value by opening the outlet (to the discharge line) when the pressure is overriding.

An EPDM diaphragm, PTFE coated, separates the mechanical parts body and the channel. All wetted parts are in plastics. The seat seal is in EPDM or FPM according to the model and connections.

Without any metallic parts exposed to the atmosphere it allows a location in corroding vapours.

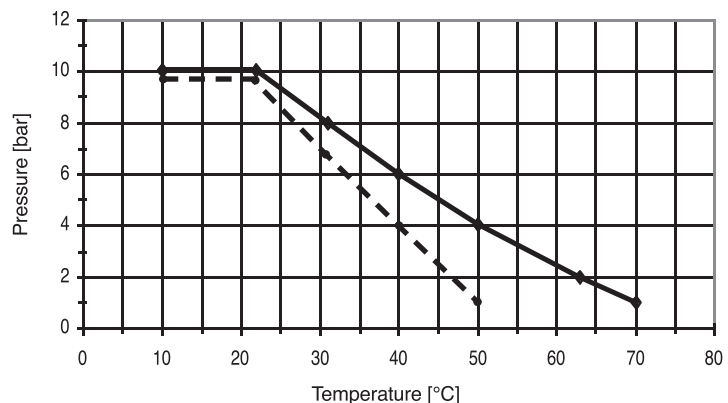
The SDD 911 valves may be used as pressure relief valves on volumetric pumping system. These equipment protection devices may be fitted in any position, in line, or on by-pass according to the application.

### TECHNICAL FEATURES

|                        |  |
|------------------------|--|
| Body:                  | PPH (Glass fibre reinforced Polypropylene) |
| Diaphragm:             | EPDM, PTFE coated                          |
| Seat seal and O-rings: | EPDM or FPM                                |
| Pressure:              | Class PN 10 (at 20°C) ; [bar]              |
| Dimensions:            | ND 10 to ND 25                             |
| Hysteresis:            | Approx. 0.3 bar                            |
| Connections:           | DIN 8068 threaded                          |
|                        | PVC union to glue on site                  |
|                        | PPH union to weld on site                  |
| Temperature limits:    | PPH; 10 to 70°C – PVC; 10 to 50°C          |



Operating conditions; pressure vs. temperature — : PPH unions  
- - - : PVC unions



**BAMO MESURES**

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**PRESSURE RELIEF VALVES**  
**SDD 911**

29-09-2010

911 I1 03 B

**PLAS**

**911-03/1**

## CODE NUMBERS

### SDD 911 with PVC unions to be glued on site

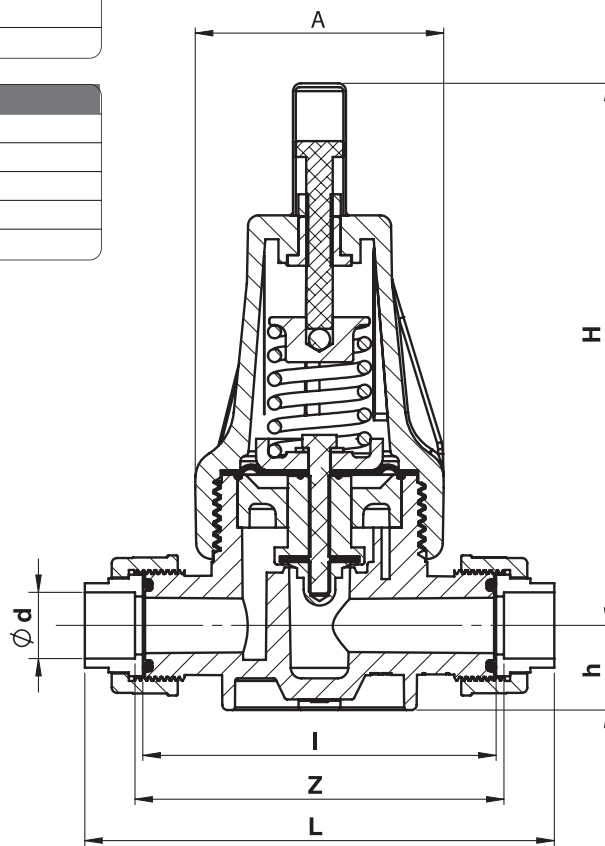
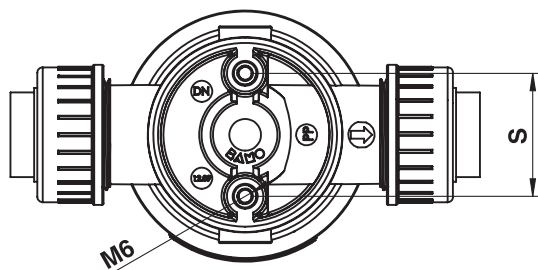
| ND    | Sealing EPDM | Sealing FPM |
|-------|--------------|-------------|
| ND 10 | 911 001      | 911 011     |
| ND 15 | 911 002      | 911 012     |
| ND 20 | 911 003      | 911 013     |
| ND 25 | 911 004      | 911 014     |

### SDD 911 with PPH unions to be welded on site

| ND    | Sealing EPDM | Sealing FPM |
|-------|--------------|-------------|
| ND 10 | 911 101      | 911 111     |
| ND 15 | 911 102      | 911 112     |
| ND 20 | 911 103      | 911 113     |
| ND 25 | 911 104      | 911 114     |

Any other material or model: please contact us

## DIMENSIONS



| ND    | d [mm] | A [mm] | H [mm] | h [mm] | I [mm] | S [mm] | Z [mm] |     | L [mm] |     | Mass [Kg] |
|-------|--------|--------|--------|--------|--------|--------|--------|-----|--------|-----|-----------|
|       |        |        |        |        |        |        | PVC    | PPH | PVC    | PPH |           |
| DN 10 | 16     | 80     | 186    | 24     | 112    | 40     | 118    | -   | 147    | -   | 0,52      |
| DN 15 | 20     | 80     | 186    | 24     | 112    | 40     | 118    | 118 | 152    | 151 | 0,53      |
| DN 20 | 25     | 94     | 210    | 32     | 132    | 46.5   | 138    | 138 | 176    | 175 | 0,93      |
| DN 25 | 32     | 94     | 210    | 32     | 132    | 46.5   | 138    | 138 | 182    | 179 | 0,96      |

## FLOW RATE LIMITS

| ND    | Flow rate [L/h] * | Kv [L/h] ** |
|-------|-------------------|-------------|
| ND 10 | 900               | 1810        |
| ND 15 | 2000              | 2380        |
| ND 20 | 3500              | 6160        |
| ND 25 | 5500              | 7870        |

\* Measured maxima according to a fluid speed of 3 m/s approx.  
The speed of 3 m/s may be considered as a maximum.  
Above 3 m/s the plastic devices will be damaged.

\*\* For water at 20°C

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