

# SRV 803

## Safety Relief Valve

The SRV 803 relief valve is installed downstream of pressure regulators to relieve limited volumes of gas. Used where venting to the atmosphere is acceptable, it provides a cost-effective solution to prevent safety shut-off valves from triggering in case of creep leaks from regulators. This valve is ideal for medium pressure settings and offers a wide setting range and robust performance.

### KEY BENEFITS

- » Compact design
- » Accurate operation
- » High flow capacity
- » Easy maintenance
- » Reliable
- » Tight shut-off

### DESCRIPTION

The SRV 803 relief valve is a spring-loaded throttling relief valve, where a diaphragm measures the system (inlet) pressure, a spring provides the initial load to the diaphragm and establishes the relief set point, and a valve throttles the relief flow.

### Technical Specifications

|                                 |  |
|---------------------------------|--|
| Maximum relief (inlet) pressure | 5 bar  |
| Relief set pressure range       | 0.15 - 5 bar   |
| Operating temperature           | -20°C to +60°C   |
| Acceptable gases                | Natural gas, town gas, propane, butane, air, nitrogen or any non-corrosive gas |

### Sizes & Connections

|       |                     |
|-------|---------------------|
| Sizes | DN 1"               |
| Type  | Gas female threaded |

### Materials

|                   |                                      |
|-------------------|--------------------------------------|
| Body-Casing-Cover | Spheroidal graphite cast iron SFP 50 |
| Valve             | Nitrile Rubber                       |
| Diaphragm         | Rubber, fabric reinforced            |
| Internal Parts    | Brass and Stainless Steel            |

## Flow Capacity

| Relief Set Pressure (bar) | Buildup Over Relief Pressure Setting (mbar) | Capacity at Standard Conditions (m <sup>3</sup> /h) |
|---------------------------|---|---|
| 0.8                       | 80  | 38  |
| 0.8                       | 160   | 96  |
| 1.5                       | 150   | 48  |
| 1.5                       | 300   | 125   |

### Standard conditions:

- Absolute pressure of 1.013 bar
  - Temperature of 15°C
- The flow rates are indicated for a 0.6 specific gravity gas

## SRV Spring Selection Tables - DN 1"

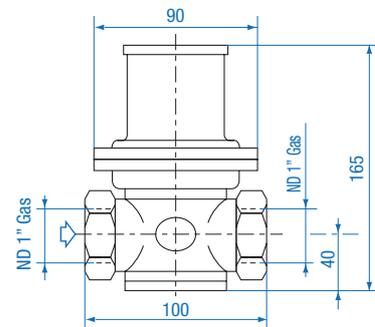
| SRV    | Spring Code | Spring Characteristic |    |    |     | Wu (bar)    | Maximum Available Relief (inlet) Pressure bar |
|--------|-------------|-----------------------|----|----|-----|-------------|---|
|        |             | d                     | De | Lo | Lt  |             |   |
| 803    | 20565125    | 2.5                   | 35 | 50 | 6   | 0.15 ÷ 0.25 | 2.50  |
|        | 20565126    | 3                     | 35 | 50 | 6   | 0.20 ÷ 0.68 | 2.50  |
|        | 20565127    | 3.5                   | 35 | 50 | 6   | 0.20 ÷ 0.85 | 2.50  |
|        | 20565128    | 4                     | 35 | 50 | 6   | 0.40 ÷ 1.50 | 2.50  |
|        | 20565129    | 4.5                   | 35 | 50 | 6   | 0.50 ÷ 2.30 | 2.50  |
| 803/TR | 20565127    | 3.5                   | 35 | 50 | 6   | 0.40 ÷ 1.30 | 5.00  |
|        | 20565128    | 4                     | 35 | 50 | 6   | 0.80 ÷ 2.20 | 5.00  |
|        | 20565129    | 4.5                   | 35 | 50 | 6   | 1.80 ÷ 2.30 | 5.00  |
|        | 20565131    | 5                     | 35 | 60 | 6.5 | 2.50 ÷ 5.00 | 5.00  |

Note: Accuracy at the initial leak point, at which the relief valve begins to discharge, is in the range of ± 5% of the setting.

### Spring characteristics:

- d: wire diameter
- Lo: height
- De: external diameter
- Lt: no. of spires

### Overall Dimensions (mm)



Type SRV 803/803/TR / Weight 2.2 kg

### Information to be specified when ordering:

- » Model
- » Inlet pressure
- » Relief pressure range
- » Connection type
- » Maximum flow rate
- » Kind of gas
- » Quantity required



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