

## SRV 275D

Safety Relief Valve G $\frac{3}{4}$ " – G1"

### Features

- Accurate operation
- Tight shut-off
- Durable
- Approved by German DVGW



The 275 D 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 thermal expansion, transient pressure surges and creep leaks from regulators. This valve is ideal for low pressure settings due to the increased sensitivity provided by a large diaphragm area.

#### Description

The 275 D 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 Features

Maximum relief (inlet) pressure	16 bar
Relief set pressure range	20 to 500 mbar
Operating temperature	-20°C to +60°C
Acceptable gases	Natural gas, propane, butane, air, nitrogen or any non-corrosive gas

#### Sizes & Connections

Sizes	DN20 – DN25
Type	Gas female threaded – G $\frac{3}{4}$ ", G1" ISO 228/1 (NPT on request)

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Description components	Material
- Body-Casing-Cover	GGG 40
- Actuator	GGG 40
- Orifice	Brass
- Internal parts	Brass, Steel zinc coated
- Seals / "O"-rings	NBR rubber / Viton
- Diaphragm	NBR rubber, fabric reinforced

### Relief Set Pressure Ranges

Spring Code gAvar	Spring Code Itron	Spring Color	Wire (ø mm)	Spring Range
61031	955-200-10	Green	2.0	20 – 30 mbar
61032	955-200-11	Orange	2.4	25 – 60 mbar
61033	955-200-12	Black / White	3.0	40 – 120 mbar
61034	955-200-83	Silver	3.4	80 – 220 mbar
61035	955-200-84	Black	4.0	150 – 500 mbar

### Accuracy

Accuracy at the initial leak point, at which the relief valve begins to discharge, is in the range of  $\pm 2.5\%$  of the setting when it is above 80 mbar, and in the range of  $\pm 5\%$  of the setting when it is equal or below 80 mbar.

### Flow capacity

Relief Set Pressure (mbar)	Buildup Over Relief Pressure Setting (mbar)	Capacity at Standard Conditions (m <sup>3</sup> /h)
20	50	24
20	75	32
20	100	38
100	120	28
100	200	48
100	300	60
200	240	48
200	300	61
400	450	54
400	500	65
500	550	65
500	600	71

SRV 275D is approved by the German DVGW for a relief set pressure range from 20 -500 mbar.

### Information to be specified when ordering:

- ❖ Model
- ❖ Inlet pressure
- ❖ Relief pressure range
- ❖ Connection type
- ❖ Maximum flow rate
- ❖ Kind of gas
- ❖ Finishing
- ❖ Certificates required
- ❖ Quantities required

### Standard conditions:

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

### Overall Dimensions

