

SRV 155D

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

Features

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



The 155 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 creep leaks from regulators. This valve is ideal for medium pressure settings and offers a wide setting range and robust performance.

Description

The 155 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 | 0,2 to 9,5 bar |
| 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 gAvilar | Spring Code Itron | Spring Color | Wire (ø mm) | Spring Range |
|---------------------|-------------------|--------------|-------------|---------------|
| 60043 | 955-200-96 | Light Blue | 2.9 | 0,2 – 1,0 bar |
| 60044 | 955-201-11 | Red | 3.4 | 0,4 – 1,6 bar |
| 60045 | 955-200-87 | White | 3.8 | 1,0 – 3,5 bar |
| 60046 | 955-200-97 | Brown | 4.2 | 2,0 – 6,0 bar |
| 60047 | 955-200-88 | Dark Blue | 5.0 | 3,0 – 9,5 bar |

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 1 bar, and in the range of $\pm 5\%$ of the setting when it is between 0.5 bar and 1 bar.

Flow capacity

| Relief Set Pressure (mbar) | Buildup Over Relief Pressure Setting (mbar) | Capacity at Standard Conditions (m ³ /h) |
|----------------------------|---|---|
| 0,4 | 0,5 | 45 |
| 0,8 | 1,0 | 55 |
| 1,0 | 1,2 | 66 |
| 2,0 | 2,5 | 128 |
| 4,0 | 4,5 | 190 |
| 6,0 | 7,0 | 470 |

SRV 155D is approved by the German DVGW for a relief set pressure range from 0,5 -9,5 bar.

Information to be specified when ordering:

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

