

## The safety device (non-return valve/ flashback resistant) **GRS25:**

### Model for protection of pipelines, tapping points and equipment

The safety device GRS25:

- avoids dangerous gas mixtures by a gas non-return valve (NV)
- flashback-resistant if compressed air is used as an oxidant
- a dust filter protects the gas non-return valve against contamination
- every safety device is 100 % tested

### Safety elements of the IBEDA non-return valve GRS25:

- NV Gas non-return valve
- DF Dust filter

For further information: <http://www.ibeda.com/en/gas-non-return-valves>

### Maintenance:

The safety devices have to be tested by a qualified and authorized person at regular intervals according to country specific regulations. They have to be tested for gas tightness and gas return at least once a year.

Safety devices are only to be opened and repaired by the manufacturer.

The dust filter may be replaced by a qualified person.



DG-4390CQ0061

### Technical Data:

#### Safety device GRS according to EN 730-2:

Flashback resistant if compressed air is used as an oxidant.

Gas types :	Industrial gas C	Hydrogen (H)	Natural Gas (Methane) (M)	Propane (P)	cleaned Bio gas (M)
<b>Working pressure:</b>	0,15 MPa 1,5 bar		0,5 MPa 5 bar		0,5 MPa 5 bar
<b>Cracking pressure:</b>	4 to 6 mbar position-independent				
<b>Ambient/ working temperature:</b>	-20°C up to +70°C				
<b>Threads:</b> DIN ISO 228 ANSI/ASME B1.20.1-1983	G 1 IG RH G 3/4 IG RH G 1/2 IG RH 1 NPT IG RH 3/4 NPT IG RH 1/2 NPT IG RH				
<b>Measure and weight:</b>	diameter:		length:		weight:
G 1 - 1 NPT:	55 mm		108 mm		1,1 kg
G 3/4 - 3/4 NPT:	55 mm		121 mm		1,2 kg
G 1/2 - 1/2 NPT:	55 mm		103 mm		1,1 kg
<b>Application:</b>	Heating burner, gas mixing- and control systems, applications according to EN 746-2				

Other materials, surface finishing and additional connections available on request.

## Model: **GRS25**

### Declaration of conformity

We, the manufacturer, hereby declare that the safety devices in accordance with EN 730-2 comply with the requirement of the following directives and standards:

Directive 97/23/EG

Standard: EN 730 Part 2

Safety devices in accordance with EN 730-2 for combustible gases (group 1), Model GRS, are subject to the conformity assessment procedure pursuant to 97/23/EG, Category I, Module A.

### Certification/ Technical Standards/ Rules

BAM Federal Institute for Materials Research and Testing,  
DVGW Deutsche Vereinigung des Gas- und Wasserfaches e.V.  
BGV German Health and Safety Regulations,  
BGR German employer's liability insurance association rules and regulations,  
DVS German Association for Welding, Cutting and Allied Processes

### Standards/ Approvals

Company certified according to  
ISO 9001:2008 and ISO 14001:2004,  
CE-marking according to: Pressure Equipment Directive 97/23/EG

(Subject to change without notice)