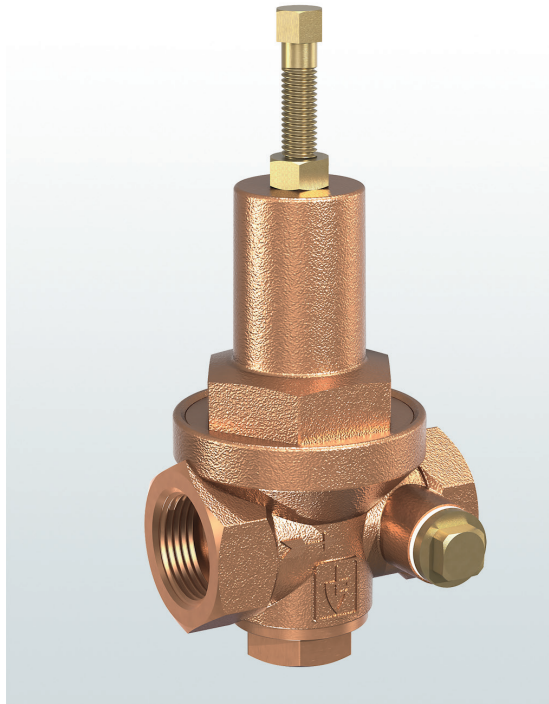


## → Series 683

**683**

Pressure reducing valves  
made of gunmetal with  
female threaded connections



### ■ SUITABLE FOR

Air, gases and vapours neutral



### ■ EXAMPLES OF USE

For the protection of:

- commercial and industrial plants  
against too high supply pressure.  
Pressure reducers are used, if within a piping system despite of varying pressures on the inlet side a certain pressure must not be exceeded on the outlet side.

- compressed air supply plants
- pneumatic control units
- pressure booster plants air-side
- shipbuilding industry and offshore plants



### ■ MATERIAL



### ■ SPECIFICATION



3/8" – 1 1/4"



– 10°C to + 95°C



**Inlet pressure:**  
up to 50 bar  
**Outlet pressure:**  
1,5 to 10 bar  
depending on version

### ■ APPROVALS

European Pressure Equipment Directive

TR ZU 032/2013 - TR ZU 010/2011

Requirements

PED 2014/68/EU

Classification society

|                                       |         |
|---------------------------------------|---------|
| DNVGL                                 | DNVGL   |
| Lloyd's Register EMEA                 | LR EMEA |
| American Bureau of Shipping           | ABS     |
| Bureau Veritas                        | BV      |
| Russian Maritime Register of Shipping | RS      |

### ■ MATERIALS

| Component      | Material     | DIN EN | ASME      |
|----------------|--------------|--------|-----------|
| Inlet body     | Gunmetal     | CC499K | CC499K    |
| Outlet body    | Gunmetal     | CC499K | CC499K    |
| Internal parts | Brass        | CW617N | CW617N    |
| Spring         | Spring steel | 1.1200 | ASTM A228 |

m

with diaphragm

High-quality, heat-resistant moulded elastomere, fabric-reinforced diaphragm. Pressure adjustment by means of spindle. Version completely made of metal. Balanced single seat valve, body with G 1/4" connection for pressure gauge on both sides.

## ■ MEDIUM

G

gaseous

Compressed air and neutral gases

## ■ TYPE OF LIFTING MECHANISM

0

without lifting device

## ■ OUTLET PRESSURE RANGES

SP

Standard version

Inlet pressure: up to 50 bar  
(size 1 1/4" up to 30 bar)  
**Largest reduction ratio 10:1**

Outlet pressure: from 1,5 to 10 bar

Fixed setting at a required outlet pressure against surcharge.

## ■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

| Nominal diameter DN      | 10        | 15        | 20        | 25      | 32          |
|--------------------------|-----------|-----------|-----------|---------|-------------|
| Inlet female connection  | 3/8" (10) | 1/2" (15) | 3/4" (20) | 1" (25) | 1 1/4" (32) |
| Outlet female connection | 3/8" (10) | 1/2" (15) | 3/4" (20) | 1" (25) | 1 1/4" (32) |

## ■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

|       |          |                                           |                                     |
|-------|----------|-------------------------------------------|-------------------------------------|
| f / f | Standard | Female thread BSP-P / Female thread BSP-P | DIN EN ISO 228-1 / DIN EN ISO 228-1 |
|-------|----------|-------------------------------------------|-------------------------------------|

## ■ SEALS

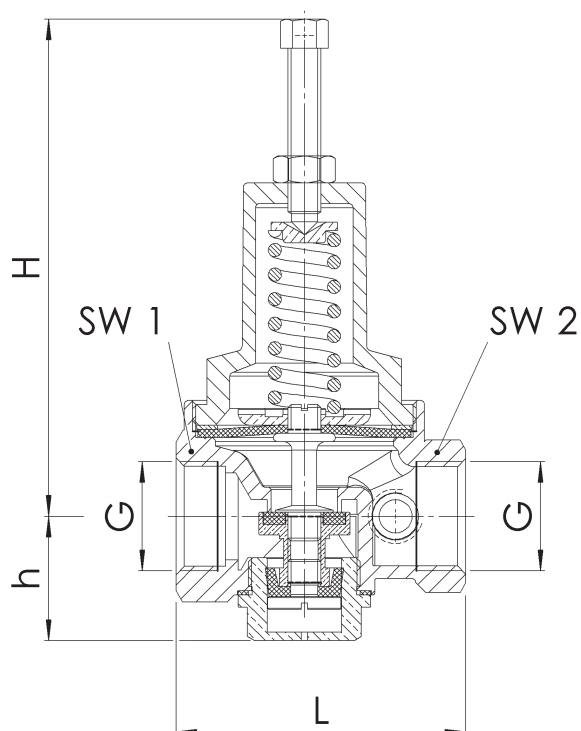
|     |                |                                 |                |
|-----|----------------|---------------------------------|----------------|
| NBR | Nitrile rubber | Elastomere diaphragms and seals | -10°C to +95°C |
|-----|----------------|---------------------------------|----------------|

## ■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

| Series 683: Connection, installation dimensions, ranges of adjustment |     |           |           |           |         |             |
|-----------------------------------------------------------------------|-----|-----------|-----------|-----------|---------|-------------|
| Nominal diameter                                                      | DN  | 10        | 15        | 20        | 25      | 32          |
| Connection DIN EN ISO 228                                             | G   | 3/8" (10) | 1/2" (15) | 3/4" (20) | 1" (25) | 1 1/4" (32) |
| Inlet pressure to                                                     | bar | 50        | 50        | 50        | 50      | 30          |
| Outlet pressure <sup>1</sup>                                          | bar | 1,5-10    | 1,5-10    | 1,5-10    | 1,5-10  | 1,5-10      |
| Installation dimensions<br>in mm                                      | L   | 73        | 73        | 70        | 87      | 100         |
|                                                                       | H   | 100       | 100       | 120       | 165     | 175         |
|                                                                       | h   | 22        | 22        | 30        | 35      | 43          |
|                                                                       | SW1 | 27        | 27        | 36        | 44      | 54          |
|                                                                       | SW2 | 27        | 27        | 32        | 40      | 49          |
| Weight                                                                | kg  | 0,5       | 0,5       | 0,8       | 1,4     | 2,0         |

<sup>1</sup>Largest reduction ratio 10:1

## ■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS



| Series | Valve version | Medium | Lifting device | Outlet pressure | Nominal diameter DN | Connection type |        | Connection size |        | Seal | Options | Optional: fixed setting | Quantity |
|--------|---------------|--------|----------------|-----------------|---------------------|-----------------|--------|-----------------|--------|------|---------|-------------------------|----------|
|        |               |        |                |                 |                     | Inlet           | Outlet | Inlet           | Outlet |      |         |                         |          |
| 683    | m             | G      | O              | SP              | 20                  | f               | f      | 20              | 20     | NBR  | S15     |                         | 5        |
| 683    | m             | G      | O              | SP              | 32                  | f               | f      | 32              | 32     | NBR  |         | 4,0                     | 1        |
| 683    | m             | G      | O              | SP              |                     | f               | f      |                 |        | NBR  |         |                         |          |
| 683    | m             | G      | O              | SP              |                     | f               | f      |                 |        | NBR  |         |                         |          |

## ■ OPTIONS

|            |                                                                                                                              |                          |            |                                   |                          |
|------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|-----------------------------------|--------------------------|
| <b>G0X</b> | Especially for gaseous O2 applications by employment of specific materials including oil- and grease free production process | <input type="checkbox"/> | <b>P03</b> | Galvanically nickel-plated finish | <input type="checkbox"/> |
| <b>P01</b> | Oil- and grease-free production                                                                                              | <input type="checkbox"/> | <b>FE</b>  | Setting and sealing               | <input type="checkbox"/> |
| <b>P02</b> | Chemically nickel-plated finish                                                                                              | <input type="checkbox"/> |            |                                   | <input type="checkbox"/> |

## ■ CERTIFICATES / APPROVALS

|            |                                                                                        |                          |            |                                                                                                                             |                          |
|------------|----------------------------------------------------------------------------------------|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>C01</b> | Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)                                    | <input type="checkbox"/> | <b>C05</b> | Sealing material<br>Manufacturer certification (FDA, USP 3, 3-A, ...),<br>Please indicate description of certificate: ..... | <input type="checkbox"/> |
| <b>C02</b> | Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)                                       | <input type="checkbox"/> | <b>C06</b> | ATEX evaluation acc. to 2014/34/EU                                                                                          | <input type="checkbox"/> |
| <b>C03</b> | Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1)<br>(pressure retaining part) | <input type="checkbox"/> | <b>C10</b> | Certificate of oil- and grease free production                                                                              | <input type="checkbox"/> |
| <b>C04</b> | TÜV/DEKRA individual inspection acc. EN 10204 3.2<br>(TÜV/DEKRA-APZ)                   | <input type="checkbox"/> |            |                                                                                                                             | <input type="checkbox"/> |

## ■ ADMISSIONS / ACCREDITATIONS

|            |                                                                                          |                                     |            |                                                                                     |                          |
|------------|------------------------------------------------------------------------------------------|-------------------------------------|------------|-------------------------------------------------------------------------------------|--------------------------|
| <b>AA1</b> | EC Type examination acc. to Directive 2014/68/EU                                         | <input checked="" type="checkbox"/> | <b>AK1</b> | DNV-GL (DNVGL) type approval                                                        | <input type="checkbox"/> |
| <b>AA4</b> | EAC - certificate/declaration with passport for the valve and laser marking of the valve | <input type="checkbox"/>            | <b>AK2</b> | Lloyd's Register (LR) type approval                                                 | <input type="checkbox"/> |
|            |                                                                                          | <input type="checkbox"/>            | <b>AK3</b> | American Bureau of Shipping (ABS) type approval                                     | <input type="checkbox"/> |
|            |                                                                                          | <input type="checkbox"/>            | <b>AK4</b> | Bureau Veritas (BV) type approval                                                   | <input type="checkbox"/> |
|            |                                                                                          | <input type="checkbox"/>            | <b>AK5</b> | Russian Maritime Register of Shipping (RMRS) type approval                          | <input type="checkbox"/> |
|            |                                                                                          | <input type="checkbox"/>            | <b>AK6</b> | Registro Italiano Navale (RINA) type approval                                       | <input type="checkbox"/> |
|            |                                                                                          | <input type="checkbox"/>            | <b>AL</b>  | Individual inspection by notified body inspector –<br>(body to be indicated): ..... | <input type="checkbox"/> |

## ■ ENQUIRY

Copy and send to: [order@goetze-armaturen.de](mailto:order@goetze-armaturen.de).

Order form easily to be found online under the section for each series.

Determination of the size and capacity

