



– 40°C to + 120°C  
depending on  
version

**Inlet pressure:**  
up to 60 bar  
**Outlet pressure:**  
0,5 to 50 bar  
depending on version

|                        |                         |                                                                                     |
|------------------------|-------------------------|-------------------------------------------------------------------------------------|
| Liquids                | neutral and non-neutral |  |
| Air, gases and vapours | neutral and non-neutral |  |

For the protection of:  
- commercial and industrial plants  
against too high supply pressure.  
Use of pressure reducing valves, when in a piping system inspite of  
varying pressures on the inlet side a specific pressure on the outlet  
side must be kept.

- Compressed air supply plants
- Pneumatic control units
- Pressure booster plants air-side
- Shipbuilding industry and offshore plants
- Industrial gas plant construction
- PET blow moulding machines
- Blasting plants
- Hydrogen applications

## European Pressure Equipment Directive

TR ZU 032/2013 - TR ZU 010/2011

## Requirements

PED 2014/68/EU

### Classification society

Lloyd's Register EMEA  
Bureau Veritas  
Russian Maritime Register of Shipping  
Registro Italiano Navale

LR EMEA  
BV  
RS  
RINA

| Component      | Material        | DIN EN | ASME  |
|----------------|-----------------|--------|-------|
| Inlet body     | Stainless steel | 1.4408 | CF8M  |
| Outlet body    | Stainless steel | 1.4408 | CF8M  |
| Internal parts | Stainless steel | 1.4404 | 316 L |
| Spring         | Stainless steel | 1.4568 | 631   |

|   |                |                                                                                                                                                                                                                                                         |
|---|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| m | with diaphragm | High-quality heat-resistant elastomere, fabric reinforced diaphragm.<br>Adjustment by means of non-rising spindle. Balanced single seat valve, pressure gauge connection G1/4" on both sides of body.<br>Please take note of the outlet pressure range. |
| k | with piston    | Stainless steel piston with seal and support ring.<br>Adjustment by means of non-rising spindle. Balanced single seat valve, pressure gauge connection G1/4" on both sides of body.<br>Please take note of the outlet pressure ranges.                  |

■ MEDIUM

|     |                                              |                                                                                                    |
|-----|----------------------------------------------|----------------------------------------------------------------------------------------------------|
| GS  | gaseous with secondary venting               | Compressed air and gases.<br>Non-neutral, poisonous gases only in combination with ducted exhaust. |
| GFO | gaseous and liquid without secondary venting | for water and non-sticking liquids, compressed air and gases                                       |

■ OUTLET PRESSURE RANGES

|                                                               |                                   |                              |                                |
|---------------------------------------------------------------|-----------------------------------|------------------------------|--------------------------------|
| SM                                                            | Standard version with diaphragm   | Inlet pressure: up to 60 bar | Outlet pressure: 0,5 to 15 bar |
| SK                                                            | Standard version with piston      | Inlet pressure: up to 60 bar | Outlet pressure: 5 to 30 bar   |
| HK                                                            | High-pressure version with piston | Inlet pressure: up to 60 bar | Outlet pressure: 10 to 50 bar  |
| Fixed setting at a required outlet pressure against surcharge |                                   |                              |                                |

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

|                          |          |           |           |           |         |             |         |
|--------------------------|----------|-----------|-----------|-----------|---------|-------------|---------|
| Nominal diameter DN      | 8        | 10        | 15        | 20        | 25      | 40          | 50      |
| Inlet female connection  | 1/4" (8) | 3/8" (10) | 1/2" (15) | 3/4" (20) | 1" (25) | 1 1/2" (40) | 2" (50) |
| Outlet female connection | 1/4" (8) | 3/8" (10) | 1/2" (15) | 3/4" (20) | 1" (25) | 1 1/2" (40) | 2" (50) |

■ 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

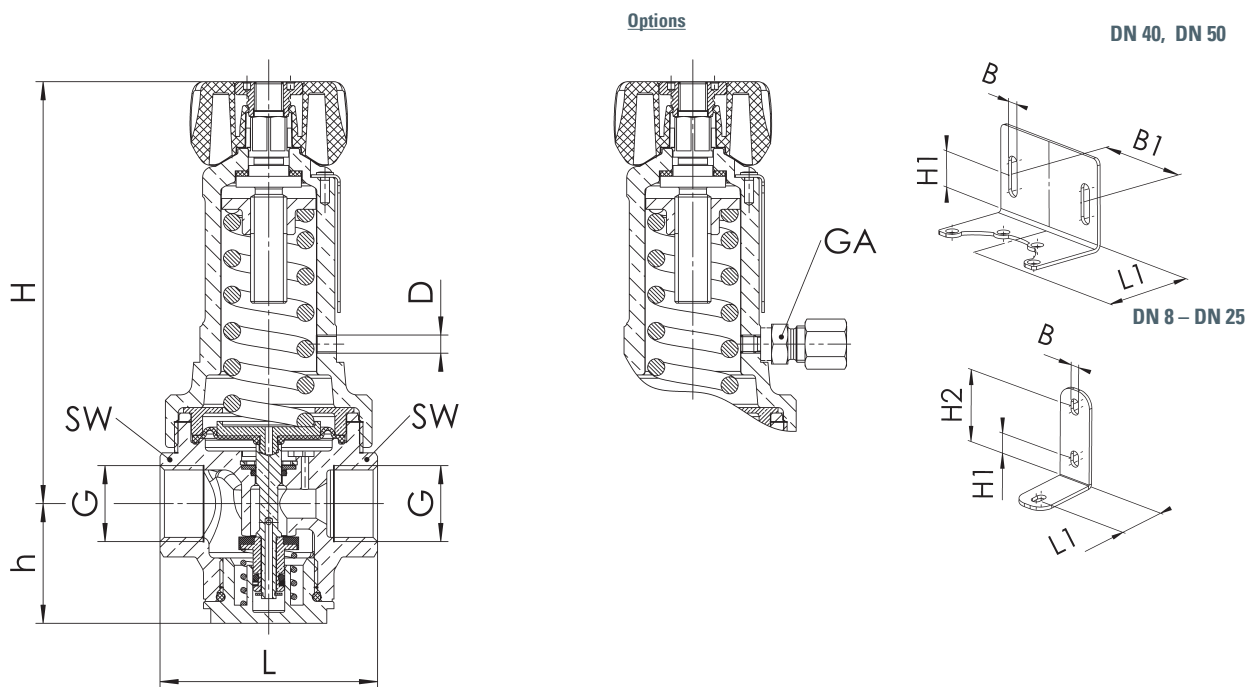
|      |                          |                                        |                 |
|------|--------------------------|----------------------------------------|-----------------|
| FKM  | Fluorocarbon             | Elastomere moulded diaphragm and seals | −10°C to +120°C |
| EPDM | Ethylene propylene diene | Elastomere moulded diaphragm and seals | −40°C to +120°C |

## ■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

| Series 484: Connection, installation dimensions, ranges of adjustment |         |          |           |           |           |         |             |           |
|-----------------------------------------------------------------------|---------|----------|-----------|-----------|-----------|---------|-------------|-----------|
| Nominal diameter                                                      | DN      | 8        | 10        | 15        | 20        | 25      | 40          | 50        |
| Connection DIN EN ISO 228                                             | G       | 1/4" (8) | 3/8" (10) | 1/2" (15) | 3/4" (20) | 1" (25) | 1 1/2" (40) | 2" (50)   |
| Inlet pressure up to                                                  | bar     | 60       | 60        | 60        | 60        | 60      | 60          | 60        |
| Outlet pressure:                                                      | SM      | 0,5-15   | 0,5-15    | 0,5-15    | 0,5-15    | 0,5-15  | 0,5-15      | 0,5-15    |
|                                                                       | SK      | 5-30     | 5-30      | 5-30      | 5-30      | 5-30    | 5-30        | 5-30      |
|                                                                       | HK      | 10-50    | 10-50     | 10-50     | 10-50     | 10-50   | 10-50       | 10-50     |
| Installation dimensions in mm                                         | L       | 68       | 68        | 60        | 78        | 102     | 136         | 136       |
|                                                                       | H       | 120      | 120       | 120       | 180       | 215     | 260         | 270       |
|                                                                       | h       | 33       | 33        | 33        | 40        | 56      | 63          | 70        |
|                                                                       | SW      | 26       | 26        | 26        | 32        | 44      | 58          | 70        |
| Ducted exhaust connection                                             | D       | 1/8"     | 1/8"      | 1/8"      | 1/8"      | 1/8"    | 1/8"        | 1/8"      |
| Dimensions of optional wall mount                                     | L1      | 38       | 38        | 38        | 51        | 61      | 85          | 85        |
|                                                                       | H1 / H2 | 18 / 62  | 18 / 62   | 18 / 62   | 18/58     | 22 / 80 | 15          | 15        |
|                                                                       | B / B1  | 5,5      | 5,5       | 5,5       | 6,5       | 8,5     | 10,5 / 90   | 10,5 / 90 |
| Weight                                                                | kg      | 1,1      | 1,1       | 1,1       | 2,5       | 4,5     | 8,1         | 8,8       |
| Coefficient of flow $K_{vs}$                                          | m³/h    | 1,6      | 1,6       | 1,6       | 3,4       | 5,5     | 12,7        | 12,7      |

The  $K_{vs}$  value was determined according to DIN EN 60534-2-3. Instructions on how to determine size and capacity are to be found under section 2.

## ■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS



| Series | Valve version | Medium | Outlet pressure | Nominal diameter DN | Connection type |        | Connection size |        | Seal | Options | Quantity |
|--------|---------------|--------|-----------------|---------------------|-----------------|--------|-----------------|--------|------|---------|----------|
|        |               |        |                 |                     | Inlet           | Outlet | Inlet           | Outlet |      |         |          |
| 484    | m             | GS     | SM              | 20                  | f               | f      | 20              | 20     | FKM  | S17     | 5        |
| 484    | k             | GFO    | SK              | 40                  | f               | f      | 40              | 40     | EPDM |         | 1        |
| 484    |               |        |                 |                     | f               | f      |                 |        |      |         |          |
| 484    |               |        |                 |                     | f               | f      |                 |        |      |         |          |

■ PROPERTIES

|     |                                                                       |                          |  |                          |
|-----|-----------------------------------------------------------------------|--------------------------|--|--------------------------|
| S17 | Supply with manometers suitable for the valve finish                  | <input type="checkbox"/> |  | <input type="checkbox"/> |
| S27 | Without hand wheel, plastic cap. To be set by means of hexagon wrench | <input type="checkbox"/> |  | <input type="checkbox"/> |
| S68 | Wall mount                                                            | <input type="checkbox"/> |  | <input type="checkbox"/> |

■ OPTIONS

|     |                                                                                                                                                                                  |                          |     |                                                                                     |                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|-------------------------------------------------------------------------------------|--------------------------|
| G0X | Especially for gaseous O2 applications by employment of specific materials including oil- and grease free production process   Inlet pressure max. 30 bar, temperature max. 60°C | <input type="checkbox"/> | FE  | Setting and sealing                                                                 | <input type="checkbox"/> |
| P01 | Oil- and grease-free production                                                                                                                                                  | <input type="checkbox"/> | S71 | Preliminary setup for protection against manipulation of the preset pressure (seal) | <input type="checkbox"/> |
| P10 | Ducted secondary venting of non-neutral gases in case of medium G                                                                                                                | <input type="checkbox"/> |     |                                                                                     | <input type="checkbox"/> |

■ CERTIFICATES / APPROVALS

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

■ ADMISSIONS / ACCREDITATIONS

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

■ ENQUIRY

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