

## → Series 382



### ■ MATERIAL



### ■ SPECIFICATION



DN50 to DN125



+ 5°C to + 65°C



**Inlet pressure:**  
up to 25 bar  
**Outlet pressure:**  
0,5 to 12 bar  
depending on version

### ■ SUITABLE FOR

Potable water cold



Potable water warm



### ■ EXAMPLES OF USE

Protection of supply networks, water supply systems in apartment buildings, commercial and industrial buildings or machines against excessive supply pressure. Use of pressure reducers when a constant supply pressure is required in the system.

- Protection against excess pressure
- Increasing comfort and reducing water consumption
- Drinking water supply systems
- Service water supply in industrial and building services engineering
- Machines / systems with connection to the drinking water network

### ■ FEATURES

- Upstream pressure-balanced diaphragm pressure reducer, constant downstream pressure even with highly fluctuating upstream pressures
- First-class flow performance and pressure control
- also regulates low flow rates, no bypass necessary
- High-quality, vortex-sintered polyamide coating provides excellent, long-lasting corrosion protection and cavitation resistance
- Simple adjustment using a spanner
- Adjustment dial for setting without operating pressure; bonnet can be positionable
- Valve insert as cartridge for quick and easy maintenance
- incl. flange gaskets made of EPDM with steel core (3mm) according to EN1514 (Approvals: Elastomer Guideline (W270, WRAS, ACS and FDA), temperature range -40 – 110°C) & pressure gauges on inlet and outlet side
- incl. 2x glycerine-filled Pressure gauges with stainless steel housing
- Lead-free in the contact area with drinking water
- Weight-optimised design

### ■ APPROVALS

UBA Conformity Confirmation Hygiene | pending

DIN-DVGW type examination (up to 30°C)

Type approval ACS

Type approval WRAS (up to 60°C) | pending

TR ZU 032/2013 - TR ZU 010/2011 | pending

Classification society

DIN EN 1567  
UBA BWGL for metallic materials

KTW-BWGL

### ■ MATERIALS

| Component    | Material                      | DIN EN                    |
|--------------|-------------------------------|---------------------------|
| Body         | Spheroidal graphite cast iron | 0.7043                    |
| Coating      | Polyamide                     | Polyamide                 |
| Valve insert | Stainless steel / Rubber      | 1.4404/1.4408   EPDM      |
| Seal         | Rubber                        | EPDM                      |
| Plug         | Plastic                       | PA Glass fibre reinforced |

Series 382 ■ VALVE VERSION

|          |                |   |
|----------|----------------|---|
| <b>m</b> | with diaphragm | High-quality, heat-resistant moulded elastomere, fabric-reinforced diaphragm. Pressure adjustment by means of non-rising spindle. |
|----------|----------------|---|

■ MEDIUM

|          |        |  |
|----------|--------|--|
| <b>F</b> | liquid | for drinking water. Other medium on request. |
|----------|--------|--|

■ TYPE OF LIFTING MECHANISM

|          |                        |
|----------|------------------------|
| <b>0</b> | without lifting device |
|----------|------------------------|

■ OUTLET PRESSURE RANGES

|           |  |  |                                    |
|-----------|--|--|------------------------------------|
| <b>SP</b> | Standard version                             | Inlet pressure: up to 16 bar (PN 16) or 25 bar (PN 25, for DN50 - DN125) | Outlet pressure: from 1,5 to 7 bar |
| <b>HP</b> | High-pressure version (from DN 50 to DN 125) | Inlet pressure: up to 16 bar (PN 16) or 25 bar (PN 25)                   | Outlet pressure: from 3 to 12 bar  |
| <b>LP</b> | Low-pressure version (from DN 50 to DN 125)  | Inlet pressure: up to 16 bar (PN 16)                                     | Outlet pressure: from 0,5 to 3 bar |

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

|                            |           |           |           |            |            |            |            |
|----------------------------|-----------|-----------|-----------|------------|------------|------------|------------|
| <b>Nominal diameter DN</b> | <b>50</b> | <b>65</b> | <b>80</b> | <b>100</b> | <b>125</b> | <b>150</b> | <b>200</b> |
| <b>Inlet / Outlet</b>      | 50/50     | 65/65     | 80/80     | 100/100    | 125/125    | 150/150    | 200/200    |
|                            | ■         | ■         | ■         | ■          | ■          | ■          | ■          |

■ TYPE OF CONNECTION INLET / OUTLET FLANGE CONNECTIONS

|                |          |                                       |                           |
|----------------|----------|---------------------------------------|---------------------------|
| <b>FL / FL</b> | Standard | Flange connection / flange connection | DIN EN 1092 / DIN EN 1092 |
|----------------|----------|---------------------------------------|---------------------------|

■ NOMINAL PRESSURE RATING PN

|             |   |              |
|-------------|---|--------------|
| <b>PN16</b> | nominal pressure rating PN16, maximum inlet pressure 16 bar | DN50 - DN200 |
| <b>PN25</b> | nominal pressure rating PN25, maximum inlet pressure 25 bar | DN50 - DN125 |

■ SEALS

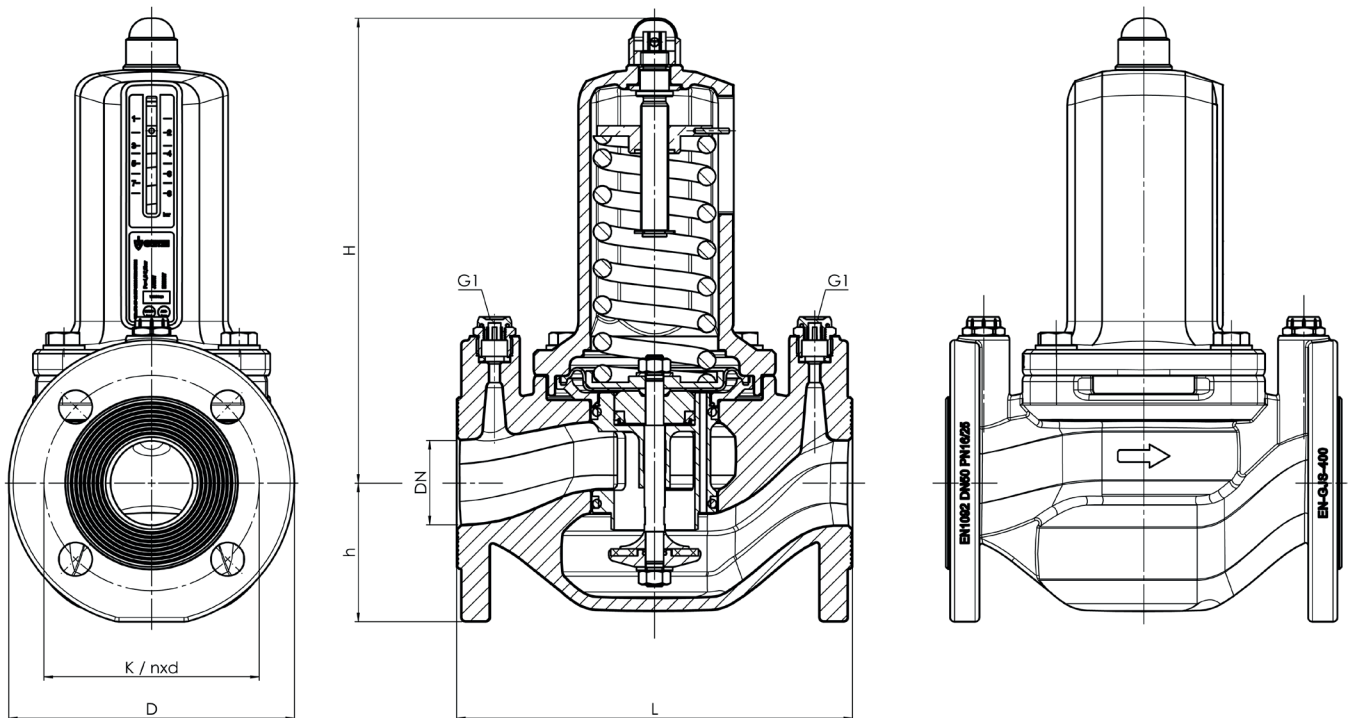
|             |                          |   |
|-------------|--------------------------|---|
| <b>EPDM</b> | Ethylene propylene diene | Elastomer moulded diaphragms and seals<br>Approvals according to UBA KTW-BWGL |
|-------------|--------------------------|---|

| Series 382: Connection, installation dimensions, ranges of adjustment |         |            |            |            |            |            |            |            |            |            |            |      |      |
|---|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|------|
| Nominal diameter  | DN      | 50         | 65         | 80         | 100        | 125        | 150        | 200        |            |            |            |      |      |
| Pressure rating   | PN      | PN16       | PN25       | PN16       | PN25       | PN16       | PN25       | PN16       | PN25       | PN16       | PN25       | PN16 | PN16 |
| Inlet pressure  | bar     | 16         | 25         | 16         | 25         | 16         | 25         | 16         | 25         | 16         | 25         |      |      |
| Outlet pressure SP  | bar     | 1,5 - 7    | 1,5 - 7    | 1,5 - 7    | 1,5 - 7    | 1,5 - 7    | 1,5 - 7    | 1,5 - 7    | 1,5 - 7    | 1,5 - 7    | 1,5 - 7    |      |      |
| Outlet pressure HP  | bar     | 3 - 12     | 3 - 12     | 3 - 12     | 3 - 12     | 3 - 12     | 3 - 12     | 3 - 12     | 3 - 12     | 3 - 12     | 3 - 12     |      |      |
| Outlet pressure LP  | bar     | 0,5 - 3    | -          | 0,5 - 3    | -          | 0,5 - 3    | -          | 0,5 - 3    | -          | 0,5 - 3    | -          |      |      |
| Installation dimensions in mm   | L       | 230        | 230        | 290        | 290        | 310        | 310        | 350        | 350        | 400        | 400        |      |      |
|   | H       | 270        | 270        | 260        | 260        | 285        | 285        | 275        | 275        | 275        | 275        |      |      |
|   | h       | 83         | 83         | 93         | 93         | 100        | 100        | 110        | 113        | 120        | 130        |      |      |
|   | D       | 165        | 165        | 185        | 185        | 200        | 200        | 220        | 235        | 250        | 270        |      |      |
|   | K / nxd | 125 / 4x19 | 125 / 4x19 | 145 / 4x19 | 145 / 8x19 | 160 / 8x19 | 160 / 8x19 | 180 / 8x19 | 190 / 8x23 | 210 / 8x19 | 220 / 8x28 |      |      |
| Pressure gauge connection<br>DIN ISO228-1                             | G1      | 1/4"       | 1/4"       | 1/4"       | 1/4"       | 1/4"       | 1/4"       | 1/4"       | 1/4"       | 1/4"       | 1/4"       |      |      |
| Weight  | Kg      | 18         | 18         | 19         | 19         | 24         | 24         | 27         | 28         | 32         | 33         |      |      |
| Coefficient of flow Kvs   | m³/h    | 24         | 24         | 26         | 26         | 42         | 42         | 57         | 57         | 63         | 63         |      |      |

in development

in development

■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS



Series 382 ■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

| Series | Valve version | Medium | Lifting device | Outlet pressure | Nominal diameter DN | Connection type |        | Connection size |        | PN   | Options | Seal | Quantity |
|--------|---------------|--------|----------------|-----------------|---------------------|-----------------|--------|-----------------|--------|------|---------|------|----------|
|        |               |        |                |                 |                     | Inlet           | Outlet | Inlet           | Outlet |      |         |      |          |
| 382    | m             | F      | 0              | HP              | 50                  | FL              | FL     | 50              | 50     | PN16 |         | EPDM | 5        |
| 382    |               | F      | 0              |                 |                     | FL              | FL     |                 |        |      |         |      |          |
| 382    |               | F      | 0              |                 |                     | FL              | FL     |                 |        |      |         |      |          |

■ 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"/> |            |  | <input type="checkbox"/> |

■ ADMISSIONS / ACCREDITATIONS

|            |   |                          |  |                          |
|------------|---|--------------------------|--|--------------------------|
| <b>AA4</b> | EAC - certificate/declaration with passport for the valve<br>and laser marking of the valve | <input type="checkbox"/> |  | <input type="checkbox"/> |
| <b>AB1</b> | Deutscher Verein des Gas- und Wasserfaches, DVGW<br>type approval                           | <input type="checkbox"/> |  | <input type="checkbox"/> |
| <b>AB2</b> | Water regulations and advisory scheme WRAS type<br>approval                                 | <input type="checkbox"/> |  | <input type="checkbox"/> |
| <b>AB3</b> | Attestation de Conformité Sanitaire, ACS type approval                                      | <input type="checkbox"/> |  | <input type="checkbox"/> |

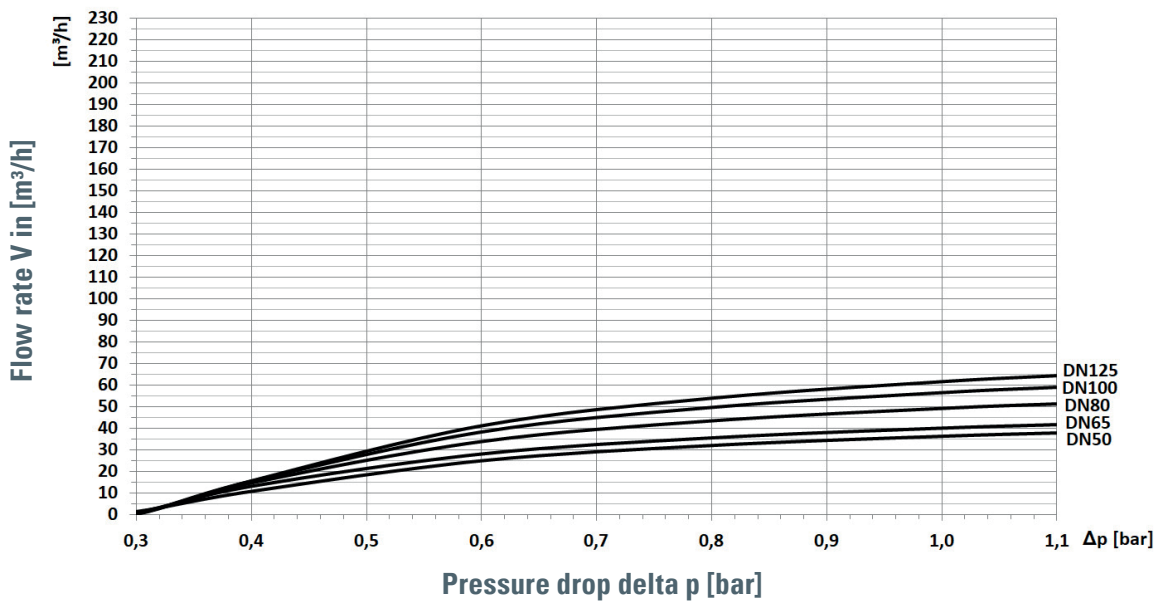
■ ENQUIRY

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

Series 382

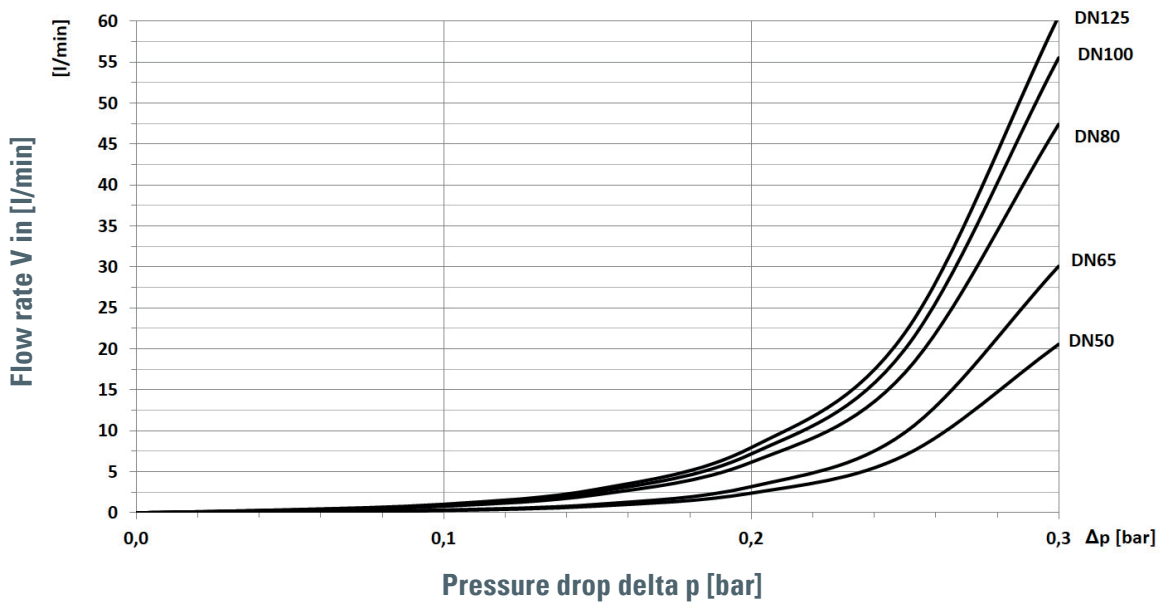
Dimensioning by pressure loss on the outlet pressure side

Flow chart water



Control characteristics in the low flow range

Flow chart water



Series 382

Dimensioning by flow velocity

**For liquids:**

With help of the chart you can determine the nominal diameter (DN) for a given flow volume  $V$  (m<sup>3</sup>/h). According to DVGW-guidelines (DIN 1988) a flow velocity of 2 m/s in domestic water supply systems should not be exceeded.

Actual cubic meters are based on the prevailing pressure of the medium on the outlet side of the pressure reducer.

