



DRV 502 • DRV 508
Type A (DN 15 - DN 32)



DRV 502 • DRV 508
Type B (DN 40 - DN 80)



Media

The pressure reducers are suitable for use with water and neutral, non-adhesive liquids, but can also be used for air and neutral gases when larger flow rates are required.

For the media drinking water or sea water we refer to our special series DRV -6 or DRV -SW.



Special version seawater (-SW)

In this special version for seawater, all materials in contact with the media are seawater resistant. Smaller nominal diameters up to DN 32 are equipped with a removable cartridge made of POM and red-bronze. For nominal sizes DN 40 and larger, the internal parts are made completely of red-bronze.

Pressure reducing valve
Flange • Standard pressure
Red bronze

Pressure reducing valves of the series are diaphragm-controlled, spring-loaded pressure reducing valves and have an inlet pressure compensation.

DGRL 2014/68/EU **CE**

Classification societies

- DNV GL
- LR
- BV
- ABS
- CCS

Customs tariff number

84811005



Features

- pressure-relieved single seated valve
- diaphragm-controlled
- continuously adjustable outlet pressure
- max. inlet pressure up to 25 bar
- outlet pressure : 1,5 - 10 bar
- Flanges acc. DIN EN 1092 PN 25
- optionally all sizes with ANSI or JIS flanges
- optionally DN 65 with PN 16 flanges
- with integrated strainer filter
- replaceable inner parts
- double-ended G 1/4" manometer fitting (for outlet pressure)
- assembly position: any desired, preferably vertical
- minimum pressure difference (inlet/outlet pressure): 1 bar

Pressures



max. 25 bar





1,5 - 10 bar

Connections



Flanges
acc. DIN EN 10920 PN 25

Materials

| | body | spring bonnet | seals | wetted parts | max. temperature |
|--|----------------------|---|---------------------------------|--|------------------|
| standard version | red bronze CC499K | up to DN 32 brass from DN 40 cast iron | NBR optionally EPDM*, FPM | up to DN 32 Hostaform C & brass from DN 40 brass | 100 °C |
| special version: | | | | | |
|  high temperature (-HT) | red bronze CC499K | up to DN 32 brass from DN 40 cast iron | FPM | brass | 190 °C |
|  sea water (-SW) | red bronze CC499K | up to DN 32 brass from DN 40 cast iron | NBR | up to DN 32 Hostaform C & red bronze from DN 40 red bronze | 100 °C |

* w/o DN 32



Temperatures

Various options for the seals and wetted parts allow a maximum temperature of up to 190°C.



from -30 °C up to +190 °C

Seals and temperatures

| | |
|-------|-----------------|
| NBR | -15°C to +100°C |
| EPDM* | -30°C to +130°C |
| FPM | -10°C to +190°C |

Special version for high temperature(-HT)

Often the temperature resistance of standard pressure reducers is not sufficient for your application. For such applications, various variants of the -HT series are available. This high temperature series is equipped with FPM seals. Thus, a maximum temperature resistance of 190°C is achieved with FPM seals in combination with metallic internal parts.

Please note that these pressure reducers are not suitable for use with steam.



Technical data

| nominal size | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 |
|--------------|----|----|----|----|----|----|----|----|
|--------------|----|----|----|----|----|----|----|----|

Type

A

B

Pressures

max. inlet pressure [bar]

max. 25 bar



| | | |
|---------|----|----|
| DRV 502 | 25 | 25 |
| DRV 508 | 25 | 25 |

outlet pressure [bar]

1,5 - 10 bar



| | | |
|---------|----------|----------|
| DRV 502 | 1,5 - 6 | 1,5 - 6 |
| DRV 508 | 1,5 - 10 | 1,5 - 10 |

Connections

dimensions [mm]

Flange connection
from DN 15 to DN 80



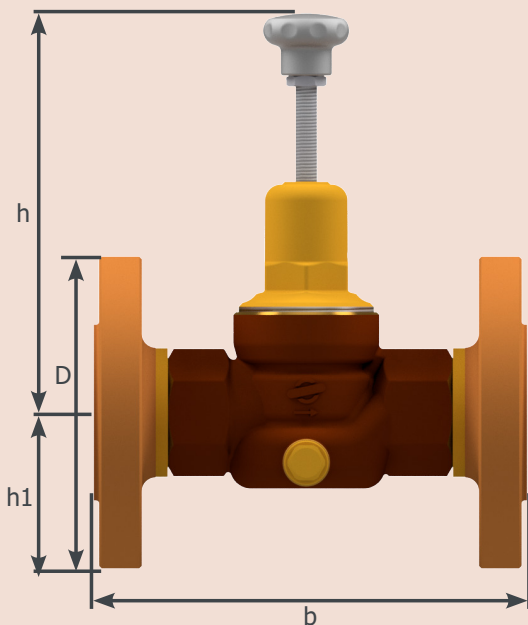
| | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 |
|-----------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| all types | b | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 |
| | D | 95 | 105 | 115 | 140 | 150 | 165 | 185 | 200 |
| | h1 | 48 | 53 | 58 | 70 | 75 | 83 | 93 | 100 |
| DRV 502 | h | 139 | 140 | 138 | 136 | 239 | 243 | 256 | 256 |
| DRV 508 | | 136 | 137 | 136 | 131 | 313 | 320 | 331 | 331 |

weight [kg]

| | | | | | | | | |
|---------|-----|-----|-----|-----|-----|------|------|------|
| DRV 502 | 2,4 | 3,3 | 4,1 | 5,9 | 9,2 | 12,3 | 18,0 | 20,7 |
| DRV 508 | 2,4 | 3,3 | 4,1 | 5,9 | 9,6 | 12,8 | 18,6 | 21,4 |

kvs-value [m³/h]

| | | | | | | | | |
|-----------|-----|-----|-----|-----|---|----|----|----|
| all types | 2,9 | 3,9 | 5,4 | 6,1 | 9 | 13 | 17 | 18 |
|-----------|-----|-----|-----|-----|---|----|----|----|





Article number

| nominal size | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 |
|----------------------|---------------------------|--------|--------|--------|---------------------------|--------|--------|--------|
| standard version | | | | | | | | |
| DRV 502 | 050202 | 050203 | 050204 | 050205 | 050206 | 050207 | 050208 | 050209 |
| DRV 508 | 050802 | 050803 | 050804 | 050805 | 050806 | 050807 | 050808 | 050809 |
| special version | | | | | | | | |
| high temperature -HT | art.no. standard + -00130 | | | | art.no. standard + -00030 | | | |
| sea water -SW | art.no. standard + -00500 | | | | art.no. standard + -00200 | | | |

Standard article numbers are 6 digits, article numbers for additional options are 11 digits. (See next page for an overview of options)

Manometer

| diameter | connection | body | pressure range | max. temp. | art.no. |
|----------|----------------------|-----------------|----------------|------------|---------|
| 50 mm | G 1/4", central back | steel | 0 - 4 bar | 60°C | 009001 |
| 50 mm | G 1/4", central back | steel | 0 - 10 bar | 60°C | 009002 |
| 63 mm | G 1/4", central back | stainless steel | 0 - 10 bar | 60°C | 009015 |
| 63 mm | G 1/4", central back | stainless steel | 0 - 10 bar | 200°C | 009014 |



Options

C C - connections

| | | |
|------|--------------------|---------------|
| 00 - | DIN EN 10920 PN 25 | standard |
| 54 - | DIN EN 10920 PN 16 | only DN 65 |
| 61 - | ANSI B 16.5 RF | class 150 lbs |
| 75 - | JIS B2220 | 16K |

E - elastomers

| | | |
|-----|------|--------------|
| 0 - | NBR | standard |
| 2 - | EPDM | except DN 32 |
| 3 - | FPM | |

M - material wetted parts

| | | |
|-----|-----------------|----------------------|
| 0 - | brass/ POM | standard up to DN 32 |
| 0 - | brass | standard from DN 40 |
| 1 - | brass | DN 15 to DN 32 |
| 2 - | red bronze | |
| 5 - | red bronze/ POM | only DN 15 to DN 32 |

f - finishes

| | |
|-----|---|
| 0 - | without additional finishes |
| 1 - | inside + outside nickel plated |
| 3 - | inside + outside chrome-plated |
| 5 - | inside + outside chemically nickel-plated |

Configuration example of an article number with additional options

inlet pressure: 10 bar
seals: EPDM

outlet pressure: 4 bar
temperature: 30 °C

connection: DN 50 ANSI B 16.5 RF
without additional finishes

| art.no. standard version | | | | | | | - | C | C | M | E | F |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 5 | 0 | 2 | 0 | 7 | - | 6 | 1 | 0 | 2 | 0 | |

Flow diagram

