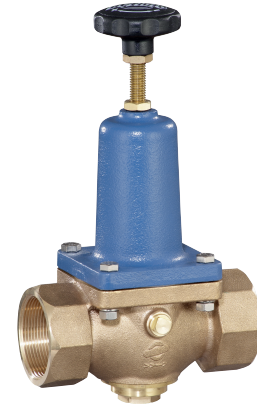




DRV 302 • DRV 308
Type A (DN 15 - DN 32)



DRV 303
Type A (DN 15 - DN 32)



DRV 302 • DRV 308
Type B (DN 40 - DN 50)



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.

*only DRV 302/308

Pressure reducing valve
Female thread • 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 40 bar
- outlet pressure : 1,5 - 10 bar
- female thread acc. ISO 228, optionally with NPT-Gewinde
- 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. 40 bar



1,5 - 10 bar

Connections



Female thread
acc. ISO 228
from G 1/4" to G 2"



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
- FKM* -10 °C to +190 °C

* DRV 303 up to max. 75°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 FKM seals. Thus, a maximum temperature resistance of 190 °C is achieved with FKM seals in combination with metallic internal parts.

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

*only DRV 302/308

Materials

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

* DRV 303 with plastic bonnet, only up to 75 °C



Technical data

| | | | | | | |
|--------------|------|------|----|--------|--------|----|
| nominal size | 15 | 20 | 25 | 32 | 40 | 50 |
| G | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" |

Type

A

B

Pressures

max. inlet pressure [bar]

max. 40 bar



| | | |
|---------|----|----|
| DRV 302 | 40 | 25 |
| DRV 303 | 16 | -- |
| DRV 308 | 40 | 25 |

outlet pressure [bar]

1,5 - 10 bar



| | | |
|---------|----------|----------|
| DRV 302 | 1,5 - 6 | 1,5 - 6 |
| DRV 303 | 1,5 - 6 | -- |
| DRV 308 | 1,5 - 10 | 1,5 - 10 |

Connections

Female thread
from G 1/2" up to G 2"



dimensions [mm]

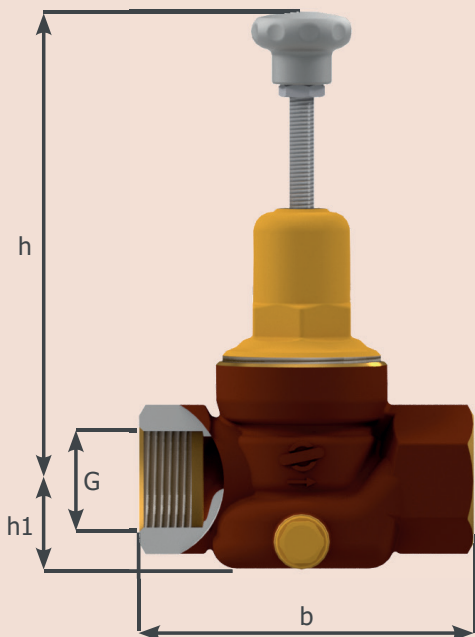
| | | | | | | | |
|-----------|---------|---------|------|-----|--------|--------|-----|
| | G | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" |
| all types | b | 85 | 95 | 105 | 120 | 150 | 160 |
| | h1 | 27 | 27 | 29 | 47 | 52 | 52 |
| | DRV 302 | 141 | 140 | 138 | 139 | 241 | 243 |
| DRV 303 | h | 109 | 110 | 109 | 106 | -- | -- |
| | | DRV 308 | 134 | 135 | 134 | 131 | 319 |

weight [kg]

| | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|
| DRV 302 | 0,8 | 0,8 | 1,1 | 1,5 | 4,5 | 4,9 |
| DRV 303 | 0,6 | 0,7 | 1,1 | 1,4 | -- | -- |
| DRV 308 | 0,8 | 0,8 | 1,1 | 1,5 | 5,0 | 5,5 |

kvs-value [m³/h]

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





Article number

| | | | | | | |
|--------------|------|------|----|--------|--------|----|
| nominal size | 15 | 20 | 25 | 32 | 40 | 50 |
| G | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" |

standard version

| | | | | | | |
|---------|--------|--------|--------|--------|--------|--------|
| DRV 302 | 030202 | 030203 | 030204 | 030205 | 030206 | 030207 |
| DRV 303 | 030302 | 030303 | 030304 | 030305 | -- | -- |
| DRV 308 | 030802 | 030803 | 030804 | 030805 | 030806 | 030807 |

special version

| | | | | | | |
|----------------------|---------------------------|--|--|---------------------------|--|--|
| high temperature -HT | art.no. standard + -00130 | | | art.no. standard + -00030 | | |
| seawater -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

CC - connections

| | | |
|------|--------------------|----------|
| 00 - | ISO 228 | standard |
| 30 - | NPT - ASME B1.20.1 | |

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 | DN 15 to DN 32 |

E - elastomers

| | | |
|-----|------|----------|
| 0 - | NBR | standard |
| 2 - | EPDM | |
| 3 - | FKM | |

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: 2" NPT
without additional finishes

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|
| art. no. standard version | | | | | | - | C | C | M | E | F |
| 0 | 3 | 0 | 2 | 0 | 7 | - | 3 | 0 | 0 | 2 | 0 |

Flow diagram

