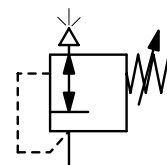


|                          |                                                                                                                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>       | Diaphragm back pressure regulators protect pneumatic devices against overpressure. If the pressure exceeds the setpoint, the pressure valve exhausts to the atmosphere until the pressure level is below the setpoint. It is advisable to select the pressure range as near as possible to the maximum setpoint. |
| <b>Media</b>             | compressed air or non-corrosive gases                                                                                                                                                                                                                                                                            |
| <b>Overpressure</b>      | max. 6 bar                                                                                                                                                                                                                                                                                                       |
| <b>Adjustment</b>        | by handwheel with locknut for DBC-04<br>by hexagonal spindle (spanner size 24 mm) with locknut for DBC-08/-16                                                                                                                                                                                                    |
| <b>Gauge port</b>        | G $\frac{1}{4}$ for operation pressure, on both sides of the body, connection parts required                                                                                                                                                                                                                     |
| <b>Mounting position</b> | any                                                                                                                                                                                                                                                                                                              |
| <b>Temperature range</b> | -20 °C to 60 °C / -4 °F to 140 °F                                                                                                                                                                                                                                                                                |
| <b>Material</b>          | Body: aluminium<br>Diaphragm: NBR/Buna-N with PTFE coating<br>O-rings: NBR/Buna-N, optionally FKM or EPDM<br>Inner valve: brass                                                                                                                                                                                  |



**G $\frac{1}{2}$  up to G2**  
**5 ... 45/3000 mbar**

| Dimensions |    |    | Relief capacity | Over-pressure | Connection thread | Adjustment range | Order number |
|------------|----|----|-----------------|---------------|-------------------|------------------|--------------|
| A          | B  | C  | l/min*1         | max. bar      | G                 | mbar             |              |
| mm         | mm | mm |                 |               |                   |                  |              |

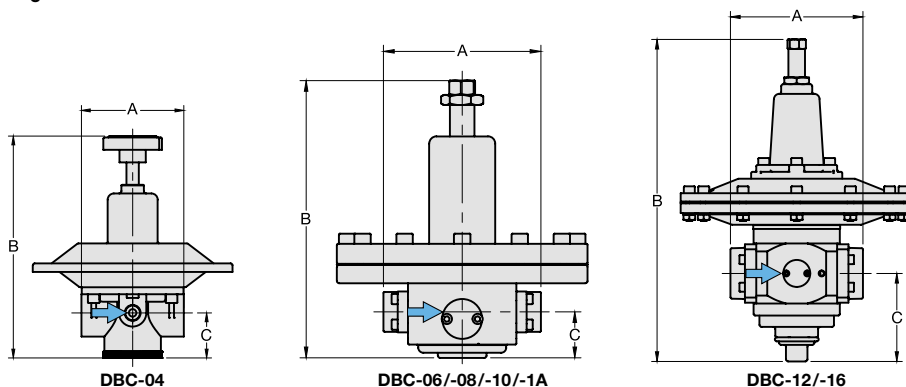
| Aluminium back pressure regulator |     |     | NBR/Buna-N with PTFE coating |   |                  | DBC          |         |
|-----------------------------------|-----|-----|------------------------------|---|------------------|--------------|---------|
| 82                                | 186 | 38  | 300                          | 1 | G $\frac{1}{2}$  | 5 ... 45     | DBC-04N |
|                                   |     |     | 500                          |   |                  | 20 ... 200   | DBC-04P |
|                                   |     |     | 1000                         |   |                  | 150 ... 700  | DBC-04Q |
| 161                               | 290 | 45  | 1300                         | 6 | G $\frac{3}{4}$  | 50 ... 300   | DBC-06P |
|                                   |     |     | 2300                         |   |                  | 100 ... 700  | DBC-06Q |
|                                   |     |     | 5000                         |   |                  | 200 ... 1200 | DBC-06R |
| 161                               | 290 | 45  | 1300                         | 6 | G1               | 50 ... 300   | DBC-08P |
|                                   |     |     | 2300                         |   |                  | 100 ... 700  | DBC-08Q |
|                                   |     |     | 5000                         |   |                  | 200 ... 1200 | DBC-08R |
| 265                               | 290 | 45  | 1300                         | 6 | G1 $\frac{1}{4}$ | 50 ... 300   | DBC-10P |
|                                   |     |     | 2300                         |   |                  | 100 ... 700  | DBC-10Q |
|                                   |     |     | 5000                         |   |                  | 200 ... 1200 | DBC-10R |
| 265                               | 290 | 45  | 1300                         | 6 | G1 $\frac{1}{2}$ | 50 ... 300   | DBC-1AP |
|                                   |     |     | 2300                         |   |                  | 100 ... 700  | DBC-1AQ |
|                                   |     |     | 5000                         |   |                  | 200 ... 1200 | DBC-1AR |
| 192                               | 444 | 128 | 2500                         | 6 | G1 $\frac{1}{2}$ | 20 ... 50    | DBC-12N |
|                                   |     |     | 5000                         |   |                  | 50 ... 150   | DBC-12P |
|                                   |     |     | 7500                         |   |                  | 150 ... 300  | DBC-12Q |
|                                   |     |     | 10000                        |   |                  | 300 ... 3000 | DBC-12R |
| 192                               | 444 | 128 | 2500                         | 6 | G2               | 20 ... 50    | DBC-16N |
|                                   |     |     | 5000                         |   |                  | 50 ... 150   | DBC-16P |
|                                   |     |     | 7500                         |   |                  | 150 ... 300  | DBC-16Q |
|                                   |     |     | 10000                        |   |                  | 300 ... 3000 | DBC-16R |

## Special options, add the appropriate letter

|                   |                                                   |            |
|-------------------|---------------------------------------------------|------------|
| NPT               | connection thread                                 | DBC-... N  |
| FKM o-ring        | PTFE-diaphragm                                    | DBC-... V  |
| EPDM o-ring       | PTFE-diaphragm                                    | DBC-... E  |
| flange connection | see chapter for stainless steel devices / flanges | DBC-... F. |

## Accessories, enclosed

|                  |                                                                        |               |
|------------------|------------------------------------------------------------------------|---------------|
| pressure gauge   | Ø 63 mm, 0 ... *2 mbar, G $\frac{1}{4}$ , capsule type, up to 400 mbar | MA6302-... *2 |
|                  | Ø 63 mm, 0 ... *2 bar, G $\frac{1}{4}$ , Bourdon tube, up 1 bar        | MA6302-... *2 |
| connection parts | required for pressure gauge                                            | AM-01         |
| mounting bracket | made of stainless steel for G $\frac{1}{2}$                            | BW00-26S      |



\*1 at 6 bar overpressure and open outlet  
\*2 B6 = 0 ... 60 mbar, C2 = 0 ... 160 mbar, C4 = 0 ... 400 mbar, C01 = 0 ... 1 bar, 04 = 0 ... 4 bar, 06 = 0 ... 6 bar

Gauges: see chapter for measuring devices

PDF CAD  
www.aircom.net

\* Product group



Order example:  
DBC-04N



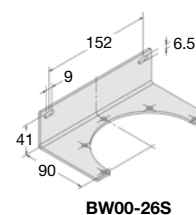
DBC-04



DBC-06/-08



DBC-12/-16



BW00-26S

