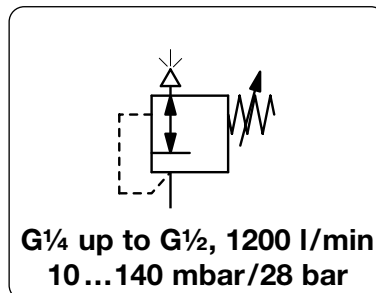


# PRECISION BACK PRESSURE REGULATOR OF ADVANCED ACCURACY, UP TO 35 BAR 10BP

|                          |                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>       | The back pressure regulator is a high-flow, high-precision pneumatic relief valve with adjustable setpoint. It provides protection against overpressure in the downstream section of pneumatic systems. A convoluted diaphragm provides the sensitivity for venting to the atmosphere in response to the slightest upstream change. |
| <b>Media</b>             | compressed air or non-corrosive gases                                                                                                                                                                                                                                                                                               |
| <b>Overpressure</b>      | max. 21 bar up to pressure range of 14 bar, max. 35 bar beyond                                                                                                                                                                                                                                                                      |
| <b>Adjustment</b>        | by handwheel with locknut                                                                                                                                                                                                                                                                                                           |
| <b>Gauge port</b>        | G $\frac{1}{4}$ on both sides of the body, screw plugs supplied                                                                                                                                                                                                                                                                     |
| <b>Mounting position</b> | any                                                                                                                                                                                                                                                                                                                                 |
| <b>Temperature range</b> | 0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F                                                                                                                                                                                                                               |
| <b>Material</b>          | Body: aluminium die-cast<br>Elastomer: NBR/Buna-N, optionally FKM<br>Inner valve: stainless steel and brass                                                                                                                                                                                                                         |



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

| Precision back pressure regulator |     |    |      |    | overpressure max. 21/35 bar |               | Model 10BP |
|-----------------------------------|-----|----|------|----|-----------------------------|---------------|------------|
| 67                                | 162 | 19 | 1200 | 21 | G¼                          | 0.01 ... 0.14 | 10212BPH   |
|                                   |     |    |      |    |                             | 0.01 ... 0.7  | 10222BPH   |
|                                   |     |    |      |    |                             | 0.01 ... 2.1  | 10232BPH   |
|                                   |     |    |      |    |                             | 0.07 ... 4.1  | 10242BPH   |
|                                   |     |    |      |    |                             | 0.14 ... 10   | 10262BPH   |
|                                   |     |    |      |    |                             | 0.20 ... 14   | 10272BPH   |
| 67                                | 171 | 19 | 1200 | 35 | G¼                          | 0.30 ... 21   | 10282BPH   |
|                                   |     |    |      |    |                             | 0.30 ... 28   | 10292BPH   |



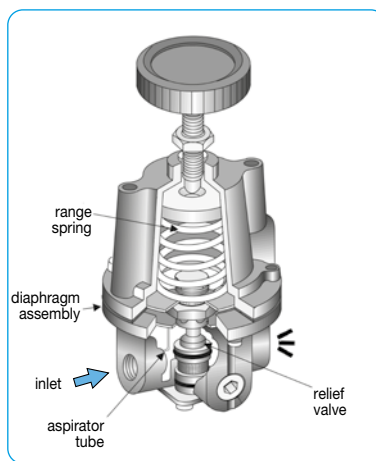
Modell 10BP

## Special options, add the appropriate letter

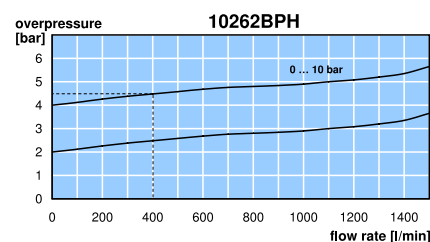
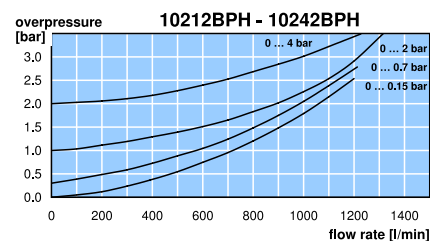
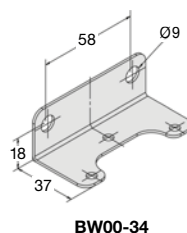
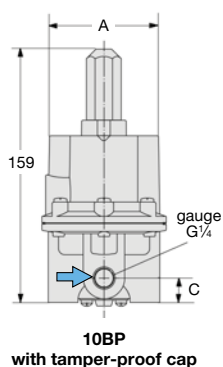
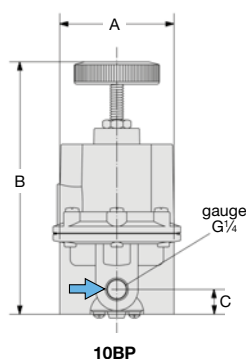
|                                  |                                                           |             |
|----------------------------------|-----------------------------------------------------------|-------------|
| <b>G<math>\frac{3}{8}</math></b> | connection thread                                         | 102.3BPH    |
| <b>G<math>\frac{1}{2}</math></b> | connection thread, recommended for mbar range             | 102.4BPH    |
| <b>NPT</b>                       | connection thread                                         | 102.2BP     |
| <b>FKM elastomer</b>             |                                                           | 102..BP.J   |
| <b>free of non-ferrous metal</b> | FKM elastomer                                             | 102..BP.X63 |
| <b>tamper-proof cap</b>          | aluminium, adjustment by screwdriver, total height 159 mm | 102..BP.T   |

## Accessories, enclosed

|                         |                                                                                                                                                                  |                                                                                                   |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>pressure gauge</b>   | Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$<br>Ø 50 mm, 0... 25 bar, G $\frac{1}{4}$<br>Ø 50 mm, 0... 60 bar, G $\frac{1}{4}$<br>Ø 63 mm, 0...160 mbar, G $\frac{1}{4}$ | <b>MA5002-...*2</b><br><b>MA5002-25</b><br><b>MA5002-60</b><br><b>MA6302-C2</b><br><b>BW00-34</b> |
| <b>mounting bracket</b> | made of steel                                                                                                                                                    |                                                                                                   |



cross section



\*1 at 5 bar overpressure and open outlet

\*2 01 = 0...1 bar, 02 = 0...2.5 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar, 60 = 0...60 bar

Gauges: see chapter for measuring devices

PDF CAD  
www.aircom.net

\* Product group



Order example:  
10212BPH