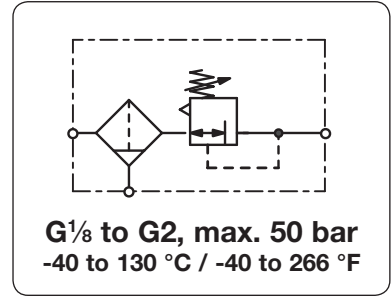


Filter Regulator Made of Brass, up to 50 bar

BM

| | | |
|--------------------------|---|--|
| Description | Filter pressure regulator made of solid brass, with bowl without sight glass. | |
| Media | compressed air, non-corrosive gases or liquids | |
| Supply pressure | max. 50 bar (without drain) | Relieving function relieving, optionally non-relieving |
| Adjustment | by black plastic knob at sizes G $\frac{1}{8}$ to G $\frac{3}{8}$, | by T-handle with locknut at G $\frac{1}{2}$ to G2 |
| Gauge port | G $\frac{1}{4}$ or G $\frac{3}{8}$ at BM-01 and BM-A2, on both sides of the body, one screw plug supplied | |
| Filter element | 50 μ m, optionally 5 μ m, made of stainless steel | |
| Bowl | stainless steel version without sight glass | |
| Drainage | screw plug as standard, | optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar) |
| Temperature range | 0 °C to 60 °C / 32 °F to 140 °F for NBR/FKM or EPDM -40 °C bis 60 °C / -40 °F to 140 °F for low temp. version 0 °C to 130 °C / 32 °F to 176 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F | |
| Material | Body: brass Diaphragm: NBR/Buna-N with PTFE coating, O-rings: NBR/Buna-N, Knob: plastic at sizes G $\frac{1}{8}$ to G $\frac{3}{8}$, Inner valve: brass and plastic (not at option X54) | Bowl: stainless steel 316L / material no. 1.4404 optionally EPDM or FKM brass at G $\frac{1}{2}$ to G2 |



| Dimensions | | | Bowl | Regulating system | Flow | Connection | Order |
|------------|----|----|---------|-------------------|---------------|--------------------------------|--------|
| A | B | C | Design | Capacity | D = diaphragm | rate | number |
| mm | mm | mm | made of | l | P = piston | m ³ /h*1 l/min*1 | thread |
| | | | | | | | G |

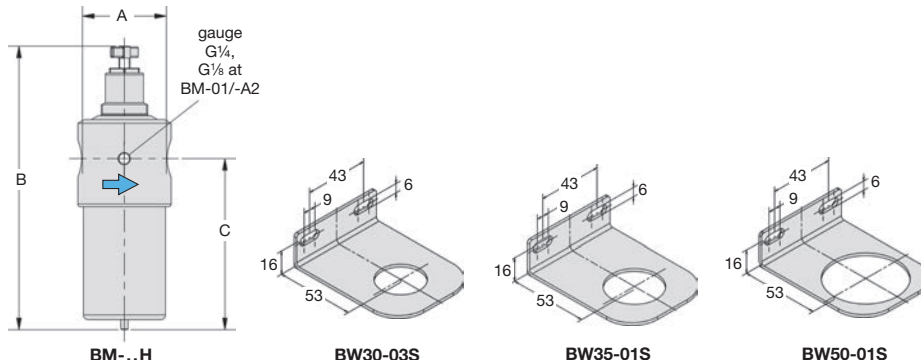
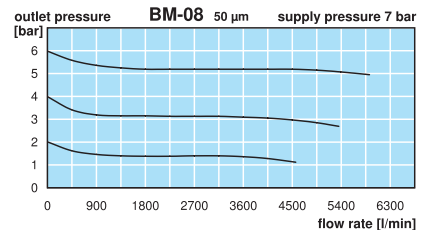
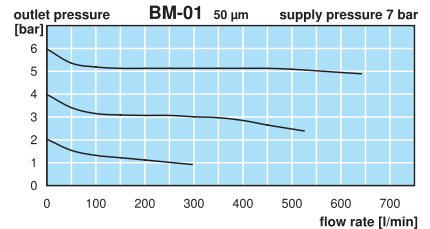
| Brass filter regulator | | | | | | | with screw plug, relieving, without gauge, supply pressure max. 50 bar, 50 μ m filter element, 0.5 ... 8 bar | BM | |
|------------------------|-----|-----|-----------------|------|---|-----|---|------------------|-------|
| 40 | 188 | 116 | stainless steel | 0.04 | D | 36 | 600 | G $\frac{1}{8}$ | BM-01 |
| | | | | | | 36 | 600 | G $\frac{1}{4}$ | BM-A2 |
| 65 | 240 | 140 | stainless steel | 0.17 | D | 84 | 1400 | G $\frac{1}{4}$ | BM-02 |
| | | | | | | 96 | 1600 | G $\frac{3}{8}$ | BM-03 |
| 78 | 270 | 152 | stainless steel | 0.28 | D | 228 | 3800 | G $\frac{1}{2}$ | BM-04 |
| | | | | | | 240 | 4000 | G $\frac{3}{4}$ | BM-A6 |
| 90 | 360 | 207 | stainless steel | 0.58 | P | 360 | 6000 | G $\frac{3}{4}$ | BM-06 |
| | | | | | | 360 | 6000 | G1 | BM-08 |
| 210 | 540 | 450 | stainless steel | 1.00 | P | 720 | 12000 | G1 $\frac{1}{2}$ | BM-12 |
| | | | | | | 720 | 12000 | G2 | BM-16 |



| Special options, add the appropriate letter | | | | | |
|---|---|--|---|----------------------|------------------------------|
| 5 μm filter element | for G $\frac{1}{4}$ (02) to G $\frac{3}{4}$ (A6) | for G $\frac{3}{4}$ (06) and G1 for G1 $\frac{1}{2}$ and G2 | BM-0 . G BM- . . G BM- . . N BM- . . B BM- . . D BM- . . H BM- . . R BM- . . K BM- . . X51 BM- . . X54 BM- . . E BM- . . V BM- . . F BM- . . T | | |
| NPT | connection thread | | | | |
| 0.2... 3 bar range | | | | | |
| 1 ...15 bar range | | | | | |
| manual drain | max. 30 bar | | | | |
| automatic drain | made of stainless steel, max. 16 bar | for G $\frac{1}{4}$ (02) to G2 | | | |
| non-relieving | without relieving function | | | | |
| down to -40 °C / -40 °F | low temperature version | | | | |
| up to 130 °C / 266 °F | high temperature version | | | | |
| EPDM elastomer | | | | | |
| FKM elastomer | | | | | |
| flange connection | see chapter for stainless steel devices / flanges | | | | |
| T-handle | instead of adjusting knob | for G $\frac{1}{8}$ to G $\frac{3}{8}$ | | | |
| nitrogen | N ₂ : 07 | carbon dioxide | CO ₂ : 03 | argon | Ar: BM- . . 05 |
| helium | He: 09 | hydrogen | H ₂ : 11 | methane | CH ₄ : BM- . . 13 |
| oxygen | O ₂ : 15 | propane | C ₃ H ₈ : 16 | nitrous oxide | N ₂ O: BM- . . 17 |



| Accessories, enclosed | | | | |
|--------------------------------|---|--|---|--|
| pressure gauge | Ø 40 mm, 0...*2 bar, G $\frac{1}{8}$ Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$ Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$ Ø . . mm, 0...*2 bar, G $\frac{1}{2}$ | for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2) for G $\frac{1}{4}$ (02) to G $\frac{3}{4}$ (A6) for G $\frac{3}{4}$ (06) to G2 | MA4001- . . *2 MA5001- . . *2 MA6302- . . *2 MA6302- . . X54*2 | |
| gauge for -40 to 130 °C | | | | |
| mounting bracket | made of stainless steel | for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2) | BW30-03S M30x1,5S BW35-01S M35x1,5S BW50-01S M50x1,5S | |
| mounting nut | | | | |
| mounting bracket | made of stainless steel | for G $\frac{1}{4}$ (02) to G $\frac{3}{8}$ | | |
| mounting nut | | | | |
| mounting bracket | made of stainless steel | for G $\frac{1}{2}$ to G1 | | |
| mounting nut | | | | |



*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop *2 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar



Order example:
BM-01
China website: www.duray-control.cn