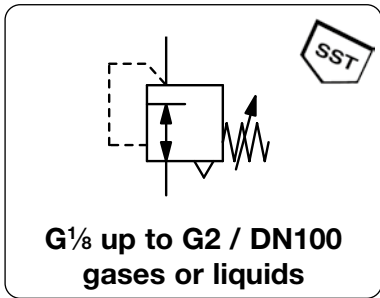


PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT, UP TO 60 BAR R3000

| | |
|---------------------------|--|
| Description | Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P ₁ = 60 bar. |
| Media | compressed air, gases or liquids |
| Supply pressure | see chart, max. 60 bar, for liquids Δp _{max.} = 25 bar |
| Adjustment | by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle at R3000-08 to -16C, with pilot-regulator by adjusting screw at -16D |
| Relieving function | non-relieving, optionally relieving |
| Gauge port | G _{1/8} at R3000-01 and -A2, all others G _{1/4} on both sides of the body, one screw plug supplied |
| Temperature range | 0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F |
| Material | Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel O-rings: FKM, optionally EPDM Internal parts: stainless steel 316L, material no. 1.4404 |

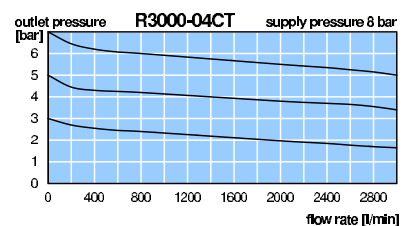
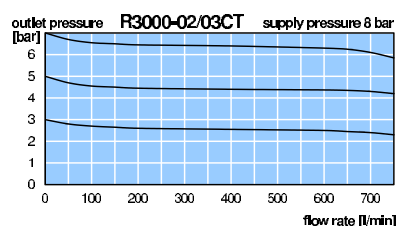
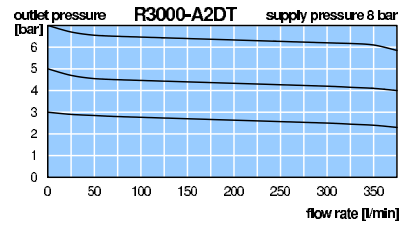
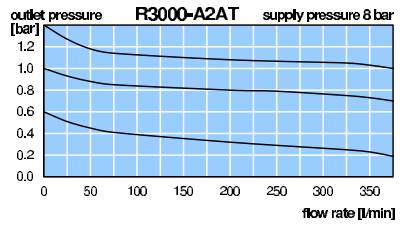
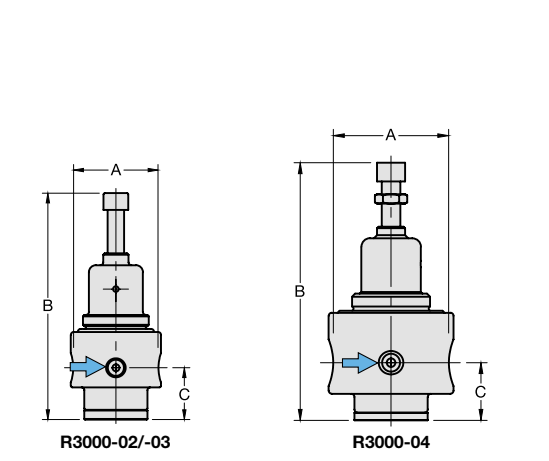


| Dimensions | | | Regul. system | K _v | Flow rate | P ₁ max. | Connection thread | Pressure range | Order number |
|------------|---|---|---------------------------|------------------------------|--------------------------------|---------------------|-------------------|----------------|--------------|
| A | B | C | D: Diaphragm P: Piston | value (m ³ /h) | m ³ /h*1 l/min*1 | bar | G | bar | |

| SST Pressure regulator | | | | | | | | | | supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring | R3000 |
|------------------------|-----|----|---|-----|-----|------|----|------------------|-----------|---|-------|
| 40 | 92 | 22 | D | 0.2 | 20 | 330 | 30 | G _{1/8} | 0.1...1.5 | R3000-01AT | |
| | | | | | | | | | 0.2...3.0 | R3000-01BT | |
| | | | | | | | | | 0.5...8.0 | R3000-01DT | |
| | | | | | | | | | 1.0...15 | R3000-01ET | |
| 40 | 92 | 22 | D | 0.2 | 20 | 330 | 30 | G _{1/4} | 0.1...1.5 | R3000-A2AT | |
| | | | | | | | | | 0.2...3.0 | R3000-A2BT | |
| | | | | | | | | | 0.5...8.0 | R3000-A2DT | |
| | | | | | | | | | 1.0...15 | R3000-A2ET | |
| 64 | 161 | 38 | D | 0.5 | 42 | 700 | 30 | G _{1/4} | 0.1...1.5 | R3000-02AT | |
| | | | | | | | | | 0.2...3.0 | R3000-02BT | |
| | | | | | | | | | 0.5...8.0 | R3000-02CT | |
| | | | | | | | | | 1.0...15 | R3000-02DT | |
| | | | | | | | 50 | | 2.0...30 | R3000-02ET | |
| | | | | | | | 50 | | 3.0...50 | R3000-02FT | |
| 64 | 175 | 38 | P | 0.5 | 42 | 700 | 50 | G _{3/8} | 0.1...1.5 | R3000-03AT | |
| | | | | | | | | | 0.2...3.0 | R3000-03BT | |
| | | | | | | | | | 0.5...8.0 | R3000-03CT | |
| | | | | | | | 50 | | 1.0...15 | R3000-03DT | |
| | | | | | | | 50 | | 2.0...30 | R3000-03ET | |
| | | | | | | | 50 | | 3.0...50 | R3000-03FT | |
| 80 | 164 | 37 | D | 1.8 | 132 | 2200 | 30 | G _{1/2} | 0.1...1.5 | R3000-04AT | |
| | | | | | | | | | 0.2...3.0 | R3000-04BT | |
| | | | | | | | | | 0.5...8.0 | R3000-04CT | |
| | | | | | | | 50 | | 1.0...15 | R3000-04FT | |
| | | | | | | | 50 | | 2.0...30 | R3000-04GT | |
| | | | | | | | 50 | | 3.0...50 | R3000-04LT | |



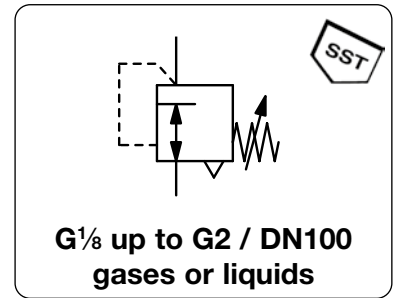
Accessories, see following pages



*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT, UP TO 60 BAR R3000

| | |
|---------------------------|---|
| Description | Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to $P_1 = 60$ bar. |
| Media | compressed air, gases or liquids |
| Supply pressure | see chart, max. 60 bar, for liquids $\Delta p_{max.} = 25$ bar |
| Adjustment | by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle at R3000-08 to -16C, with pilot-regulator by adjusting screw at -16D |
| Relieving function | non-relieving, optionally relieving |
| Gauge port | $G\frac{1}{8}$ at R3000-01 and -A2, all others $G\frac{1}{4}$ on both sides of the body, one screw plug supplied |
| Temperature range | 0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F |
| Material | Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel O-rings: FKM, optionally EPDM Internal parts: stainless steel 316L, material no. 1.4404 |



| Dimensions | | | Regul. system | K_v | Flow | P_1 | Connection | Pressure | Order |
|------------|----|----|---------------|-------------|------------|---------|------------|----------|--------|
| A | B | C | D: diaphragm | value | rate | max. | thread | range | number |
| mm | mm | mm | P: piston | (m^3/h) | m^3/h^*1 | l/min*1 | G | bar | |

| SST Pressure regulator | | | | | | | | | | supply pressure max. 30/60 bar, non-relieving, PTFE diaphragm and FKM o-ring | R3000 |
|------------------------|-----|----|---|-----|-----|------|----|-----------------|-----------|--|-------|
| 137 | 187 | 51 | P | 3.0 | 228 | 3800 | 30 | $G\frac{3}{4}$ | 0.1...1.5 | R3000-06AT | |
| | | | | | | | | | 0.2...3.0 | R3000-06BT | |
| | | | | | | | | | 0.5...8.0 | R3000-06CT | |
| | | | | | | | 50 | | 1.0...15 | R3000-06FT | |
| | | | | | | | | | 2.0...30 | R3000-06GT | |
| | | | | | | | | | 3.0...50 | R3000-06LT | |
| 137 | 187 | 51 | P | 3.0 | 228 | 3800 | 30 | $G1$ | 0.1...1.5 | R3000-A8AT | |
| | | | | | | | | | 0.2...3.0 | R3000-A8BT | |
| | | | | | | | | | 0.5...8.0 | R3000-A8CT | |
| | | | | | | | 50 | | 1.0...15 | R3000-A8FT | |
| | | | | | | | | | 2.0...30 | R3000-A8GT | |
| | | | | | | | | | 3.0...50 | R3000-A8LT | |
| 165 | 286 | 60 | D | 6.0 | 480 | 8000 | 60 | $G1$ | 0.1...1.5 | R3000-08AT | |
| | | | | | | | | | 0.2...3.0 | R3000-08BT | |
| | | | | | | | | | 0.5...8.0 | R3000-08CT | |
| | | | | | | | | | 1.0...15 | R3000-08FT | |
| 165 | 311 | 60 | P | 6.0 | 480 | 8000 | 60 | | 2.0...30 | R3000-08GT | |
| | | | | | | | | | 3.0...50 | R3000-08LT | |
| 269 | 286 | 60 | D | 6.0 | 480 | 8000 | 60 | $G1\frac{1}{4}$ | 0.1...1.5 | R3000-10AT | |
| | | | | | | | | | 0.2...3.0 | R3000-10BT | |
| | | | | | | | | | 0.5...8.0 | R3000-10CT | |
| | | | | | | | | | 1.0...15 | R3000-10FT | |
| 269 | 311 | 60 | P | 6.0 | 480 | 8000 | 60 | | 2.0...30 | R3000-10GT | |
| | | | | | | | | | 3.0...50 | R3000-10LT | |
| 269 | 286 | 60 | D | 6.0 | 480 | 8000 | 60 | $G1\frac{1}{2}$ | 0.1...1.5 | R3000-1AAT | |
| | | | | | | | | | 0.2...3.0 | R3000-1ABT | |
| | | | | | | | | | 0.5...8.0 | R3000-1ACT | |
| | | | | | | | | | 1.0...15 | R3000-1AFT | |
| 269 | 311 | 60 | P | 6.0 | 480 | 8000 | 60 | | 2.0...30 | R3000-1AGT | |
| | | | | | | | | | 3.0...50 | R3000-1ALT | |



R3000-06/-A8



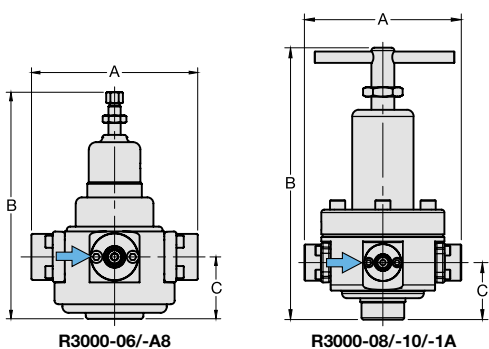
R3000-08/-10/-1A



R3000-06/A8.TF.



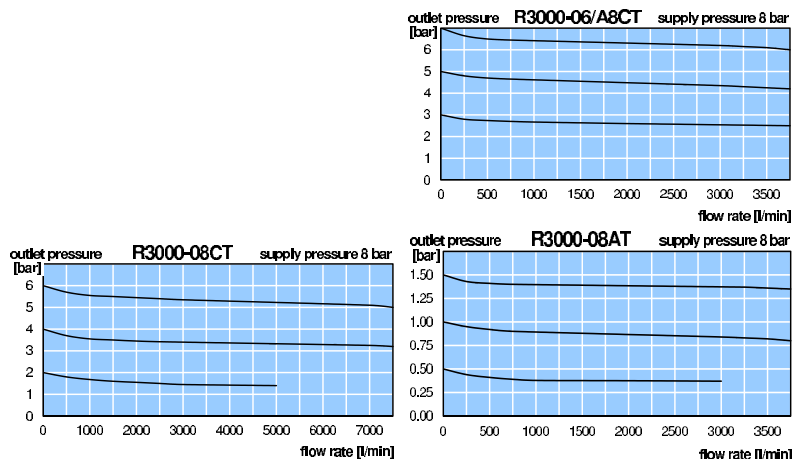
Accessories, see following pages



R3000-06/-A8

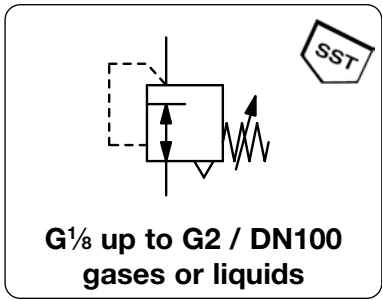
R3000-08/-10/-1A

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop



PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT, UP TO 60 BAR R3000

| | |
|---------------------------|---|
| Description | Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P ₁ = 60 bar. |
| Media | compressed air, gases or liquids |
| Supply pressure | see chart, max. 60 bar, for liquids Δp _{max.} = 25 bar |
| Adjustment | by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle at R3000-08 to -16C, with pilot-regulator by adjusting screw at -16D |
| Relieving function | non-relieving, optionally relieving |
| Gauge port | G _{1/8} at R3000-01 and -A2, all others G _{1/4} on both sides of the body, one screw plug supplied |
| Temperature range | 0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F |
| Material | Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel O-rings: FKM, optionally EPDM Internal parts: stainless steel 316L, material no. 1.4404 |



| Dimensions | | | Regul. system | K _v | Flow | P ₁ | Connection | Pressure | Order |
|------------|----|----|---------------|---------------------|---------------------|----------------|------------|----------|--------|
| A | B | C | D: diaphragm | value | rate | max. | thread | range | number |
| mm | mm | mm | P: piston | (m ³ /h) | m ³ /h*1 | l/min*1 | G | bar | |

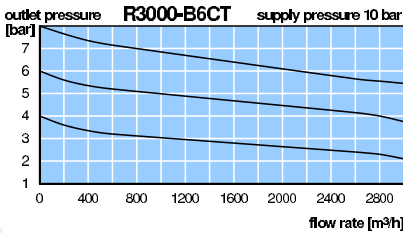
| SST Pressure regulator | | | | | | | | | | supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring | R3000 |
|------------------------|-----|-----|---|------|------|-------|----|-------|-------------|--|-------|
| 171 | 390 | 128 | P | 12.6 | 900 | 15000 | 30 | G1½ | 0.1 ... 1.5 | R3000-12AT | |
| | | | | | | | | | 0.2 ... 3.0 | R3000-12BT | |
| | | | | | | | | | 0.5 ... 8.0 | R3000-12CT | |
| | | | | | | | | | 1.0 ... 15 | R3000-12ET | |
| 171 | 400 | 128 | P | 12.6 | 900 | 15000 | 50 | | 2.0 ... 30 | R3000-12GT | |
| | | | | | | | | | 3.0 ... 50 | R3000-12LT | |
| 171 | 390 | 128 | P | 12.6 | 900 | 15000 | 30 | G2 | 0.1 ... 1.5 | R3000-B6AT | |
| | | | | | | | | | 0.2 ... 3.0 | R3000-B6BT | |
| | | | | | | | | | 0.5 ... 8.0 | R3000-B6CT | |
| | | | | | | | | | 1.0 ... 15 | R3000-B6ET | |
| 171 | 400 | 128 | P | 12.6 | 900 | 15000 | 50 | | 2.0 ... 30 | R3000-B6GT | |
| | | | | | | | | | 3.0 ... 50 | R3000-B6LT | |
| 171 | 421 | 128 | D | 21.0 | 1800 | 30000 | 30 | G2 | 0.1 ... 1.5 | R3000-16AT | |
| | | | | | | | | | 0.5 ... 6.0 | R3000-16CT | |
| | | | | | | | | | 1.0 ... 15 | R3000-16DT | |
| 171 | 417 | 128 | D | 21.0 | 1800 | 30000 | 30 | | 0.1 ... 1.5 | R3000-24AT | |
| | | | | | | | | | 0.5 ... 6.0 | R3000-24CT | |
| | | | | | | | | | 1.0 ... 15 | R3000-24DT | |
| 389 | 425 | 118 | D | 48.0 | 4500 | 75000 | 30 | DN80 | 0.1 ... 1.5 | R3000-32AT | |
| | | | | | | | | | 0.5 ... 6.0 | R3000-32CT | |
| | | | | | | | | | 1.0 ... 15 | R3000-32DT | |
| 389 | 425 | 118 | D | 56.0 | 5500 | 90000 | 30 | DN100 | 0.1 ... 1.5 | R3000-32AT | |
| | | | | | | | | | 0.5 ... 6.0 | R3000-32CT | |
| | | | | | | | | | 1.0 ... 15 | R3000-32DT | |



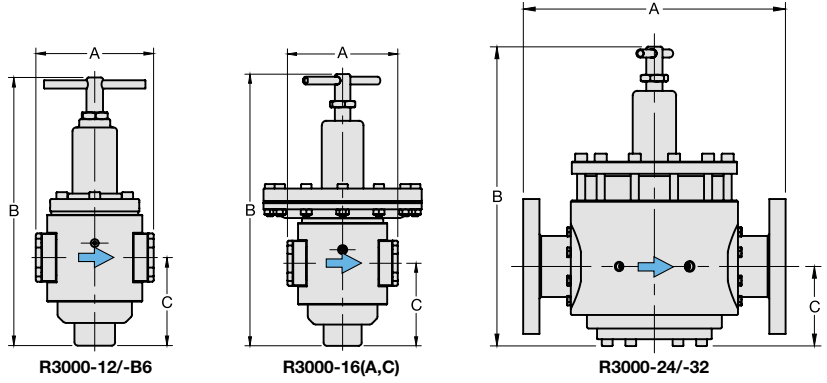
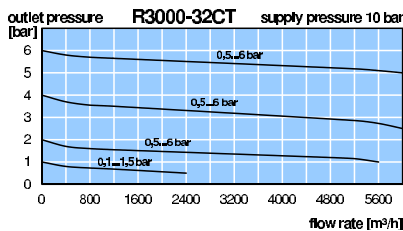
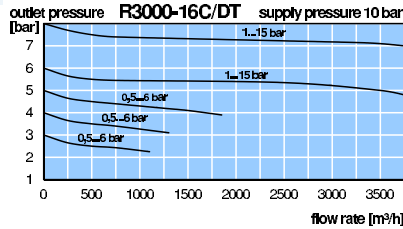
R3000-12/-B6, accessory: gauge



R3000-16, accessory: gauge



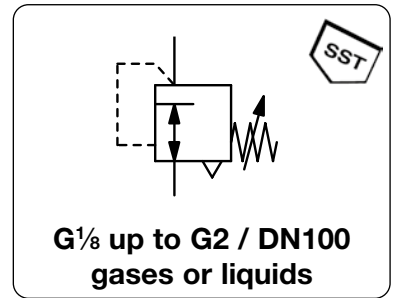
Accessories, see following pages



*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT, UP TO 60 BAR R3000

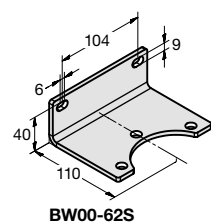
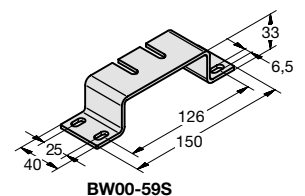
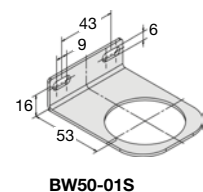
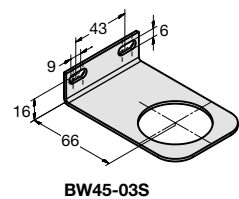
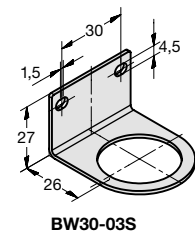
| | |
|---------------------------|---|
| Description | Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P ₁ = 60 bar. |
| Media | compressed air, gases or liquids |
| Supply pressure | see chart, max. 60 bar, for liquids Δp _{max.} = 25 bar |
| Adjustment | by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle at R3000-08 to -16C, with pilot-regulator by adjusting screw at -16D |
| Relieving function | non-relieving, optionally relieving |
| Gauge port | G _{1/8} at R3000-01 and -A2, all others G _{1/4} on both sides of the body, one screw plug supplied |
| Temperature range | 0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F |
| Material | Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel O-rings: FKM, optionally EPDM Internal parts: stainless steel 316L, material no. 1.4404 |



| Dimensions | Regul. system | K _v | Flow | P ₁ | Connection | Pressure | Order |
|------------|---------------|---------------------|-----------------------------|----------------|------------|----------|--------|
| A B C | D: diaphragm | value | rate | max. | thread | range | number |
| mm mm mm | P: piston | (m ³ /h) | m ³ /h*1 l/min*1 | bar | G | bar | |

Special options, add the appropriate letter or number

| | | | |
|-----------------------------|----------------------------------|--|------------------|
| NPT | connection thread | for G _{1/8} and G _{1/4} (A2) | R3000- . . . N |
| NPT | connection thread | for G _{1/4} (02) to G ₂ | R3000- . . . N |
| with T-handle | instead of hexagonal screw | for G _{1/4} (02) to G _{1/2} | R3000- . . . P |
| diaphragm, relieving | | G _{1 1/2} (1A) | R3000- . . . R |
| piston, relieving | | | R3000- . . . R |
| tapped exhaust | | for R3000-01/A2 | R3000- . . . X12 |
| down to -40 °C | low temperature version | from G _{1/4} (02) on | R3000- . . . X51 |
| up to 130 °C | high temperature version | from G _{1/4} (02) on | R3000- . . . X54 |
| FKM o-ring | for piston or PTFE diaphragm | | R3000- . . . T |
| EPDM o-ring | | | R3000- . . . TE |
| EPDM o-ring | FDA-approval | | R3000- . . . TD |
| SST diaphragm | FKM o-ring | for G _{1/4} (02) to G ₁ (A8) | R3000- . . . S |
| | EPDM o-ring | for G _{1/4} (02) to G ₁ (A8) | R3000- . . . SE |
| ammonia | NH ₃ | | R3000- . . . 02 |
| carbon dioxide | CO ₂ | | R3000- . . . 03 |
| argon | Ar | | R3000- . . . 05 |
| nitrogen | N ₂ | | R3000- . . . 07 |
| helium | He | | R3000- . . . 09 |
| hydrogen | H ₂ | | R3000- . . . 11 |
| methane | CH ₄ | | R3000- . . . 13 |
| natural gas *3 | | | R3000- . . . 14 |
| oxygen | O ₂ | | R3000- . . . 15 |
| propane | C ₃ H ₈ | | R3000- . . . 16 |
| nitrous oxide | N ₂ O | | R3000- . . . 17 |
| water | H ₂ O | | R3000- . . . W |
| flange connection | see end of the chapter / flanges | | R3000- . . . F. |



Accessories, enclosed

| | | | |
|-------------------------|---------------------------------------|--|--------------------|
| pressure gauge | Ø 40 mm, 0...*2 bar, G _{1/8} | for G _{1/8} and G _{1/4} (A2) | MS4001-..*2 |
| | Ø 50 mm, 0...*2 bar, G _{1/4} | for G _{1/4} (02) to G _{1/2} | MS5002-..*2 |
| | Ø 63 mm, 0...*2 bar, G _{1/4} | for G _{3/4} (06) to G ₂ | MS6302-..*2 |
| mounting bracket | | for G _{1/8} and G _{1/4} (A2) | BW30-03S |
| mounting nut | | for G _{1/8} and G _{1/4} (A2) | M30x1,5S |
| mounting bracket | | for G _{1/4} (02), G _{3/8} , G _{3/4} and G ₁ (A8) | BW45-03S |
| mounting nut | | for G _{1/4} (02), G _{3/8} , G _{3/4} and G ₁ (A8) | M45x1,5S |
| mounting bracket | | for G _{1/2} | BW50-01S |
| mounting nut | | for G _{1/2} | M50x1,5S |
| mounting bracket | | for G ₁ (08) + G _{1 1/2} (1A) | BW00-59S |
| | | for G _{1 1/2} (12) + G ₂ (B6) | BW00-62S |

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 60 = 0...60 bar

*3 without DVGW-approval

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net



Order example:
MS4001-02