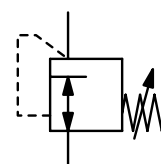


|                           |                                                                                                                                                                                                                       |                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Description</b>        | Low pressure regulator with large diaphragm for good accuracy and high sensitivity.                                                                                                                                   |                                                               |
| <b>Media</b>              | compressed air or non-corrosive gases                                                                                                                                                                                 |                                                               |
| <b>Supply pressure</b>    | see chapter, max. 10 bar (bei R161), min. 1 bar                                                                                                                                                                       |                                                               |
| <b>Air consumption</b>    | without constant bleed                                                                                                                                                                                                |                                                               |
| <b>Adjustment</b>         | with handwheel by R161                                                                                                                                                                                                | with adjusting screw on R160-06 to -1A (A, B, C), -12 and -16 |
|                           | with T-handle by R160-06 to 1A (D, E)                                                                                                                                                                                 | by hexagon head screw with locknut                            |
| <b>Relieving function</b> | non-relieving                                                                                                                                                                                                         |                                                               |
| <b>Gauge port</b>         | G $\frac{1}{4}$ on both sides of the body, screw plug supplied                                                                                                                                                        | <b>Mounting position</b> any                                  |
| <b>Temperature range</b>  | -20 °C to 80 °C / -4 °F to 176 °F                                                                                                                                                                                     |                                                               |
| <b>Material</b>           | Body: aluminium coated<br>O-rings: FKM by G $\frac{1}{2}$ , all other NBR/Buna-N, optionally FKM or EPDM<br>Diaphragm: NBR/Buna-N with PTFE coating<br>Inner valve: brass / aluminium<br>Spring cage: stainless steel |                                                               |



**G $\frac{1}{2}$  up to G2**  
**5 ... 45/1500 mbar**

| Dimensions |    |    | K <sub>v</sub> -value | Flow rate           |         | P <sub>1</sub> max. | Connection thread | Pressure range | Order number |
|------------|----|----|-----------------------|---------------------|---------|---------------------|-------------------|----------------|--------------|
| A          | B  | C  | (m <sup>3</sup> /h)   | m <sup>3</sup> /h*1 | l/min*1 | bar                 | G                 | mbar           |              |
| mm         | mm | mm |                       |                     |         |                     |                   |                |              |



## Low pressure regulator R160/R161

supply pressure max. 7 / 10 bar, non-relieving, without constant bleed

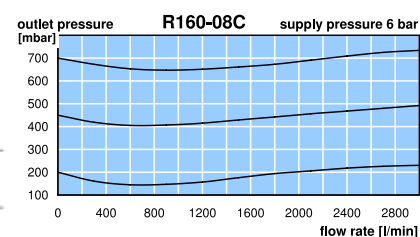
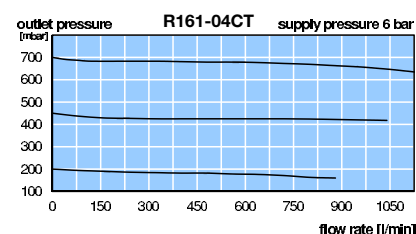
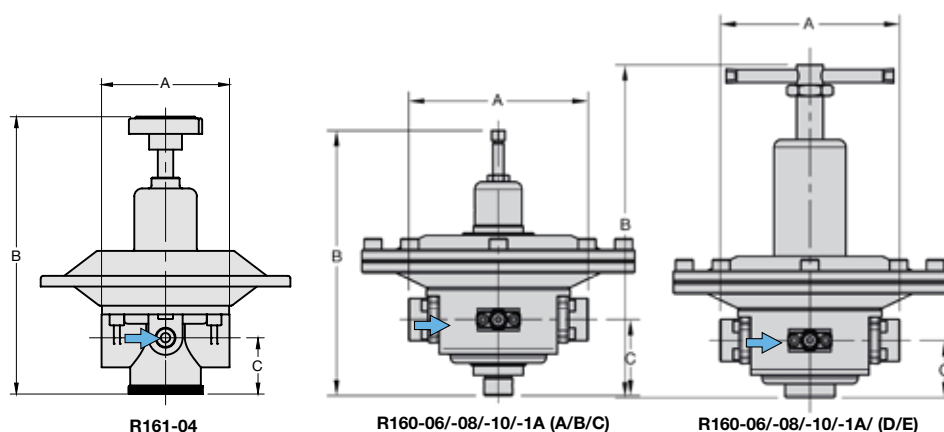
|     |     |    |     |     |      |    |                  |              |                  |
|-----|-----|----|-----|-----|------|----|------------------|--------------|------------------|
| 82  | 191 | 40 | 1.4 | 60  | 1000 | 10 | G $\frac{1}{2}$  | 5 ... 45     | <b>R161-04AT</b> |
|     |     |    |     |     |      |    |                  | 10 ... 400   | <b>R161-04BT</b> |
|     |     |    |     |     |      |    |                  | 20 ... 1000  | <b>R161-04CT</b> |
|     |     |    |     |     |      |    |                  | 50 ... 1500  | <b>R161-04DT</b> |
| 154 | 233 | 69 | 1.4 | 84  | 1400 | 7  | G $\frac{3}{4}$  | 5 ... 45     | <b>R160-06A</b>  |
|     |     |    |     |     |      |    |                  | 10 ... 120   | <b>R160-06B</b>  |
|     |     |    |     |     |      |    |                  | 10 ... 400   | <b>R160-06C</b>  |
| 154 | 292 | 53 | 8.4 | 576 | 9600 |    |                  | 15 ... 700   | <b>R160-06D</b>  |
|     |     |    |     |     |      |    |                  | 200 ... 1200 | <b>R160-06E</b>  |
| 154 | 233 | 69 | 1.4 | 84  | 1400 | 7  | G1               | 5 ... 45     | <b>R160-08A</b>  |
|     |     |    |     |     |      |    |                  | 10 ... 120   | <b>R160-08B</b>  |
|     |     |    |     |     |      |    |                  | 10 ... 400   | <b>R160-08C</b>  |
| 154 | 292 | 53 | 8.4 | 576 | 9600 |    |                  | 15 ... 700   | <b>R160-08D</b>  |
|     |     |    |     |     |      |    |                  | 200 ... 1200 | <b>R160-08E</b>  |
| 265 | 233 | 69 | 1.4 | 84  | 1400 | 7  | G1 $\frac{1}{4}$ | 5 ... 45     | <b>R160-10A</b>  |
|     |     |    |     |     |      |    |                  | 10 ... 120   | <b>R160-10B</b>  |
|     |     |    |     |     |      |    |                  | 10 ... 400   | <b>R160-10C</b>  |
| 265 | 292 | 53 | 8.4 | 576 | 9600 |    |                  | 15 ... 700   | <b>R160-10D</b>  |
|     |     |    |     |     |      |    |                  | 200 ... 1200 | <b>R160-10E</b>  |
| 265 | 233 | 69 | 1.4 | 84  | 1400 | 7  | G1 $\frac{1}{2}$ | 5 ... 45     | <b>R160-1AA</b>  |
|     |     |    |     |     |      |    |                  | 10 ... 120   | <b>R160-1AB</b>  |
|     |     |    |     |     |      |    |                  | 10 ... 400   | <b>R160-1AC</b>  |
| 265 | 292 | 53 | 8.4 | 576 | 9600 |    |                  | 15 ... 700   | <b>R160-1AD</b>  |
|     |     |    |     |     |      |    |                  | 200 ... 1200 | <b>R160-1AE</b>  |



R161-04



R160-06/-08/-10/-1A (A/B/C)



\*1 at 6 bar supply pressure and max. outlet pressure

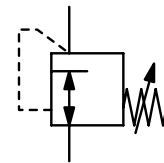
\* Product group

PDF CAD  
www.aircom.net



Order example:  
R161-04AT

|                    |                                                                                                                                                                                                         |                                                               |     |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----|
| Description        | Low pressure regulator with large diaphragm for good accuracy and high sensitivity.                                                                                                                     |                                                               |     |
| Media              | compressed air or non-corrosive gases                                                                                                                                                                   |                                                               |     |
| Supply pressure    | see chapter, max. 10 bar (bei R161), min. 1 bar                                                                                                                                                         |                                                               |     |
| Air consumption    | without constant bleed                                                                                                                                                                                  |                                                               |     |
| Adjustment         | with handwheel by R161                                                                                                                                                                                  | with adjusting screw on R160-06 to -1A (A, B, C), -12 and -16 |     |
|                    | with T-handle by R160-06 to 1A (D, E)                                                                                                                                                                   | by hexagon head screw with locknut                            |     |
| Relieving function | non-relieving                                                                                                                                                                                           |                                                               |     |
| Gauge port         | G¼ on both sides of the body, screw plug supplied                                                                                                                                                       | Mounting position                                             | any |
| Temperature range  | -20 °C / 80 °C / -4 °F to 176 °F                                                                                                                                                                        |                                                               |     |
| Material           | Body: aluminium coated<br>O-rings: FKM by G½, all other NBR/Buna-N, optionally FKM or EPDM<br>Diaphragm: NBR/Buna-N with PTFE coating<br>Inner valve: brass / aluminium<br>Spring cage: stainless steel |                                                               |     |



**G $\frac{1}{2}$  up to G2**  
**5 ... 45/1500 mbar**

| Dimensions |    |    | K <sub>v</sub> -value | Flow rate         |         | P <sub>1</sub> max. | Connection thread | Pressure range | Order number |  |
|------------|----|----|-----------------------|-------------------|---------|---------------------|-------------------|----------------|--------------|--|
| A          | B  | C  |                       | m <sup>3</sup> /h | l/min*1 |                     |                   |                |              |  |
| mm         | mm | mm | (m <sup>3</sup> /h)   |                   |         | bar                 | G                 | mbar           |              |  |

| Low pressure regulator |     |     |     |      |       |   |                  |              |  | R160                                                                   |
|------------------------|-----|-----|-----|------|-------|---|------------------|--------------|--|------------------------------------------------------------------------|
|                        |     |     |     |      |       |   |                  |              |  | supply pressure max. 7 / 10 bar, non-relieving, without constant bleed |
| 192                    | 468 | 128 | 6.2 | 420  | 7000  | 6 | G1 $\frac{1}{2}$ | 20 ... 50    |  | <b>R160-12A</b>                                                        |
|                        |     |     |     |      |       |   |                  | 50 ... 150   |  | <b>R160-12B</b>                                                        |
|                        |     |     |     |      |       |   |                  | 150 ... 300  |  | <b>R160-12C</b>                                                        |
|                        |     |     | 25  | 1680 | 28000 |   |                  | 100 ... 1000 |  | <b>R160-12D</b>                                                        |
| 192                    | 468 | 128 | 6.2 | 420  | 7000  | 6 | G2               | 20 ... 50    |  | <b>R160-16A</b>                                                        |
|                        |     |     |     |      |       |   |                  | 50 ... 150   |  | <b>R160-16B</b>                                                        |
|                        |     |     |     |      |       |   |                  | 150 ... 300  |  | <b>R160-16C</b>                                                        |
|                        |     |     | 25  | 1680 | 28000 |   |                  | 100 ... 1000 |  | <b>R160-16D</b>                                                        |



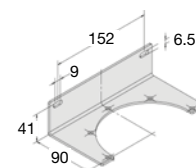
R160-12/-16

## Special options, add the appropriate letter

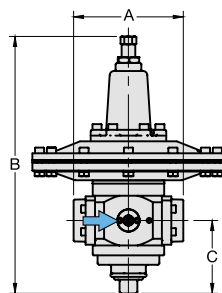
|                                |                                         |                                               |             |
|--------------------------------|-----------------------------------------|-----------------------------------------------|-------------|
| NPT                            | connection thread, A=141 mm             | for G $\frac{1}{2}$                           | R160-... N  |
| NPT                            | connection thread                       | for G $\frac{3}{4}$ to G2                     | R160-... N  |
| SST inner parts                | for ammonia NH <sub>3</sub>             |                                               | R160-... 02 |
| FKM -O-ring                    | PTFE diaphragm                          | for G3/4 to G2                                | R160-... T  |
| EPDM-O-ring                    |                                         |                                               | R160-... TE |
| EPDM-O-ring                    | FDA-approval                            |                                               | R160-... TD |
| carbon dioxide CO <sub>2</sub> |                                         |                                               | R160-... 03 |
| argon                          | Ar                                      |                                               | R160-... 05 |
| nitrogen                       | N <sub>2</sub>                          |                                               | R160-... 07 |
| helium                         | He                                      |                                               | R160-... 09 |
| hydrogen                       | H <sub>2</sub>                          |                                               | R160-... 11 |
| methane                        | CH <sub>4</sub>                         |                                               | R160-... 13 |
| natural gas *4                 |                                         |                                               | R160-... 14 |
| oxygen                         | O <sub>2</sub>                          | for G $\frac{1}{2}$ bis G1 $\frac{1}{2}$ (1A) | R160-... 15 |
| propane                        | C <sub>3</sub> H <sub>8</sub>           |                                               | R160-... 16 |
| nitrous oxide                  | N <sub>2</sub> O                        |                                               | R160-... 17 |
| flange connection              | see chapter for stainless steel devices |                                               | R160-... F. |

## Accessories, enclosed

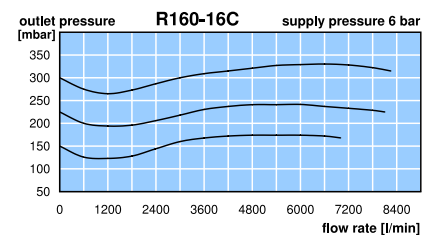
|                         |                                                                                 |                                     |
|-------------------------|---------------------------------------------------------------------------------|-------------------------------------|
| <b>pressure gauge</b>   | Ø 63 mm, 0...*2 mbar, G $\frac{1}{4}$ , capsule type, connection parts required | <b>MA6302-... *2</b>                |
|                         | Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$ , Bourdon tube, connection parts required  | <b>MA6302-... *2</b>                |
| <b>connection parts</b> | for pressure gauge, made of brass, not for NH <sub>3</sub>                      | for G $\frac{1}{2}$ <b>AM-01</b>    |
| <b>connection parts</b> | for pressure gauge, made of stainless steel, for NH <sub>3</sub>                | for G $\frac{1}{2}$ <b>AM-03S</b>   |
| <b>mounting bracket</b> | made of stainless steel                                                         | for G $\frac{1}{2}$ <b>BW00-26S</b> |



BW00-26S



R160-12/-16



\*1 at 6 bar supply pressure and max. outlet pressure

\*2 B6 = 0...60 mbar, C2 = 0...160 mbar, C3 = 0...250 mbar, C4 = 0...400 mbar, 01 = 0...1 bar, 01.6 = 0...1,6 bar

\*4 without DVGW approval

\* Product group

Gauges: see chapter for measuring devices

PDF CAD  
www.aircom.net



Order example:  
R160-12A