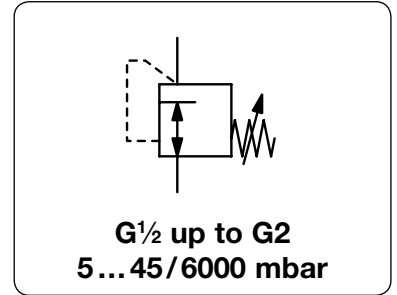


# Low Pressure Regulator, Supply Pressure max. 6 bar

R160

|                           |  |   |                    |
|---------------------------|--|---|--------------------|
| <b>Description</b>        | Low pressure regulator with large diaphragm for good accuracy and high sensitivity. Designed especially for regulating low pressures and high flows of air or non-corrosive gases. |   |                    |
| <b>Media</b>              | compressed air or non-corrosive gases  |   |                    |
| <b>Supply pressure</b>    | max. 6 bar   |   |                    |
| <b>Air consumption</b>    | without constant bleed   |   |                    |
| <b>Adjustment</b>         | R160-04: by handwheel with locknut<br>R160-08/-12/-16: by hexagon head screw with locknut  |   |                    |
| <b>Relieving function</b> | non-relieving  |   |                    |
| <b>Gauge port</b>         | G1/4 on both sides of the body, screw plug supplied  |   |                    |
| <b>Mounting position</b>  | any  |   |                    |
| <b>Temperature range</b>  | 0 °C to 70 °C / 32 °F to 158 °F  |   |                    |
| <b>Material</b>           | Body: black-coated aluminium   | O-rings: NBR/Buna-N, optionally FKM or EPDM | Inner valve: brass |
|                           | Diaphragm: NBR/Buna-N with PTFE coating  |   |                    |
|                           | Spring cage: stainless steel   |   |                    |



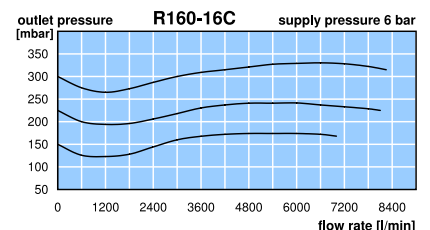
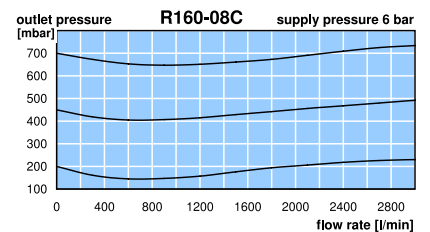
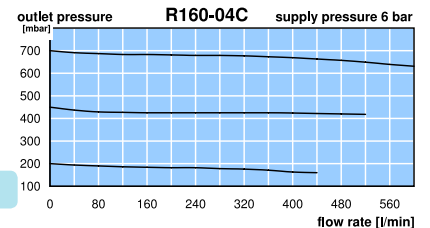
| Dimensions |      |      | K <sub>v</sub> value (m³/h) | Flow rate |         | Connection thread G | Pressure range mbar | Order number |
|------------|------|------|-----------------------------|-----------|---------|---------------------|---------------------|--------------|
| A mm       | B mm | C mm |                             | m³/h*1    | l/min*1 |                     |                     |              |

| Low pressure regulator |     |    | supply pressure max. 6 bar, non-relieving without constant bleed |     |      |                     | R160   |  |
|------------------------|-----|----|--|-----|------|---------------------|--|--|
| 80                     | 180 | 38 | 0.4  | 36  | 600  | G <sup>1/2</sup> *3 | 5 ... 45<br>20 ... 200<br>150 ... 700                  | R160-04A<br>R160-04B<br>R160-04C             |
| 127                    | 305 | 67 | 1.8  | 180 | 3000 | G1                  | 20 ... 50<br>50 ... 100<br>100 ... 700<br>700 ... 6000 | R160-08A<br>R160-08B<br>R160-08C<br>R160-08D |
| 202                    | 360 | 52 | 5.7  | 480 | 8000 | G1 <sup>1/2</sup>   | 20 ... 50<br>50 ... 150<br>150 ... 300<br>300 ... 3000 | R160-12A<br>R160-12B<br>R160-12C<br>R160-12D |
| 202                    | 360 | 52 | 5.7  | 480 | 8000 | G2                  | 20 ... 50<br>50 ... 150<br>150 ... 300<br>300 ... 3000 | R160-16A<br>R160-16B<br>R160-16C<br>R160-16D |



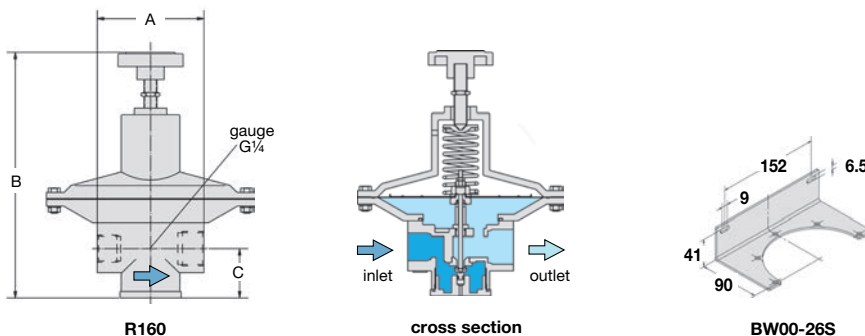
## Special options, add the appropriate letter

|                                  |                                      |  |               |
|----------------------------------|--------------------------------------|--|---------------|
| <b>NPT</b>                       | connection thread                    | for G1 to G2                                   | R160-... N    |
| <b>SST inner parts</b>           | for ammonia NH <sub>3</sub>          | for G <sup>1/2</sup> and G1                    | R160-... .02  |
|                                  |                                      | for G1 <sup>1/2</sup> and G2                   | R160-1... .02 |
| <b>FKM o-ring</b>                | PTFE diaphragm                       |  | R160-... T    |
| <b>EPDM o-ring</b>               |                                      |  | R160-... TE   |
| <b>nitrogen</b> N <sub>2</sub> : | <b>07</b>                            | <b>carbon dioxide</b> CO <sub>2</sub> :        | <b>03</b>     |
| <b>helium</b> He:                | <b>09</b>                            | <b>hydrogen</b> H <sub>2</sub> :               | <b>11</b>     |
| <b>oxygen</b> O <sub>2</sub> :   | <b>15</b>                            | <b>propane</b> C <sub>3</sub> H <sub>8</sub> : | <b>16</b>     |
| <b>argon</b> Ar:                 |                                      | <b>nitrous oxide</b> N <sub>2</sub> O:         |               |
|                                  |                                      |  | R160-... .05  |
|                                  |                                      |  | R160-... .13  |
|                                  |                                      |  | R160-... .17  |
| <b>flange connection</b>         | see chapter for SST devices / flange |  | R160-... F.   |



## Accessories, enclosed

|                         |  |                      |
|-------------------------|--|----------------------|
| <b>pressure gauge</b>   | Ø 63 mm, 0...*2 mbar, G <sup>1/4</sup> , capsule type, connection parts required | <b>MA6302-... *2</b> |
|                         | Ø 63 mm, 0...*2 bar, G <sup>1/4</sup> , Bourdon tube, connection parts required  | <b>MA6302-... *2</b> |
| <b>connection parts</b> | for pressure gauge   | <b>AM-01</b>         |
| <b>mounting bracket</b> | made of stainless steel  | <b>BW00-26S</b>      |



\*1 at 6 bar supply pressure and 1 bar outlet pressure  
\*2 B6 = 0...60 mbar, C2 = 0...160 mbar, C3 = 0...250 mbar, C4 = 0...400 mbar, 01 = 0...1 bar, 04 = 0...4 bar, 06 = 0...6 bar  
\*3 thread at outlet G<sup>3/4</sup>



**Order example:**  
**R160-04A**  
China website: www.duray-control.cn