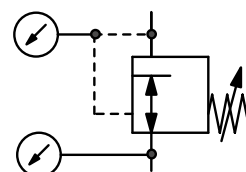


|                          |                                                                                                                                                                |                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Description</b>       | High pressure regulator for gas cylinders for reducing pressure of compressed air or liquid gases from a high level to the required pressure.                  |                              |
| <b>Supply pressure</b>   | max. 300 bar                                                                                                                                                   |                              |
| <b>Media</b>             | compressed air, oxygen or different gases                                                                                                                      |                              |
| <b>Connections</b>       | according to DIN 477 (Part 5)                                                                                                                                  |                              |
| <b>Adjustment</b>        | by T-handle                                                                                                                                                    |                              |
| <b>Gauge port</b>        | All regulators are equipped with both one supply pressure gauge and one outlet pressure gauge.                                                                 |                              |
| <b>Leakage rate</b>      | 10 <sup>-8</sup> mbar l/s                                                                                                                                      |                              |
| <b>Compensation</b>      | All regulators are equipped with supply pressure variation compensation, so that a change in supply pressure has no effect on the outlet pressure's stability. |                              |
| <b>Temperature range</b> | -30 °C to 60 °C / -22 °F to 140 °F                                                                                                                             |                              |
| <b>Material</b>          | Body: brass                                                                                                                                                    | O-rings: NBR/Buna-N and EPDM |
|                          | Diaphragm: 65NBR4550, PTFE for outlet > 10 bar, stainless steel for pure gases up to 5.0                                                                       | Spring cage: brass           |



**P<sub>1</sub>: max. 300 bar**  
**0 ... 1.5/40 bar**

| Dimensions |    |    | Version | Flow rate           |         | Supply pressure | Pressure range | Order number | D* |
|------------|----|----|---------|---------------------|---------|-----------------|----------------|--------------|----|
| A          | B  | C  |         | m <sup>3</sup> /h*2 | l/min*2 |                 |                |              |    |
| mm         | mm | mm | 1-step  |                     |         | max. bar        | bar            |              |    |
|            |    |    | 2-step  |                     |         |                 |                |              |    |

## Cylinder pressure regulator 300 bar for compressed air, connections DIN 477, with inlet / outlet gauges RH301 / RH302

|     |     |     |        |     |      |     |           |                  |
|-----|-----|-----|--------|-----|------|-----|-----------|------------------|
| 210 | 190 | 100 | 1-step | 48  | 800  | 300 | 0 ... 10  | <b>RH301-00C</b> |
| 210 | 210 | 120 |        | 75  | 1250 |     | 0 ... 20  | <b>RH301-00D</b> |
|     |     |     |        | 120 | 2000 |     | 0 ... 40  | <b>RH301-00E</b> |
| 240 | 190 | 100 | 2-step | 8   | 133  | 300 | 0 ... 1,5 | <b>RH302-00A</b> |
|     |     |     |        | 48  | 800  |     | 0 ... 10  | <b>RH302-00C</b> |



RH301, 1-step



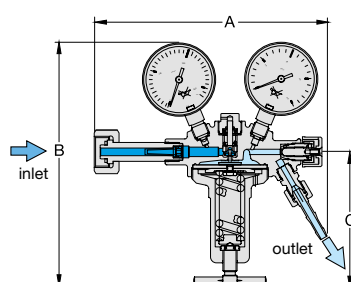
RH302, 2-step



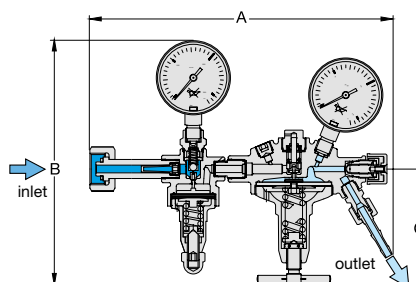
RH301-C..., chrome-plated

## Special options, change the appropriate letter

|                    |                                                |                 |
|--------------------|------------------------------------------------|-----------------|
| compressed air     | connection gauge G <sup>5</sup> / <sub>8</sub> | RH35 -... .     |
| carbon dioxide     | CO <sub>2</sub>                                | RH30 -... .03   |
| inert gas          |                                                | RH30 -... .04   |
| argon              | Ar                                             | RH30 -... .05   |
| fuel gas           |                                                | RH30 -... .06   |
| nitrogen           | N <sub>2</sub>                                 | RH30 -... .07   |
| forming gas        |                                                | RH30 -... .08   |
| helium             | He                                             | RH30 -... .09   |
| hydrogen           | H <sub>2</sub>                                 | RH30 -... .11   |
| testing gas        |                                                | RH30 -... .12   |
| oxygen             | O <sub>2</sub>                                 | RH30 -... .15   |
| chrome-plated body | inside and outside                             | RH30 -... .C... |
| metal diaphragm    | 5.0 purity                                     | RH30 -... .M... |



cross-section, 1-step



cross-section, 2-step

| connection thread up to 300 bar |          |                                  |
|---------------------------------|----------|----------------------------------|
| gas type                        | inlet *1 | outlet                           |
| fuel gas                        | W30x2 LH | G <sup>3</sup> / <sub>4</sub> LH |
| all others                      | W30x2    | G <sup>1</sup> / <sub>4</sub>    |

| flow rate - correction factor |                                    |
|-------------------------------|------------------------------------|
| gas type                      | factor                             |
| compressed air                | 1.00                               |
| oxygen                        | O <sub>2</sub> 0.95                |
| carbon dioxide                | CO <sub>2</sub> 0.81               |
| hydrogen                      | H <sub>2</sub> 3.80                |
| argon                         | Ar 0.85                            |
| helium                        | He 2.70                            |
| propane                       | C <sub>3</sub> H <sub>8</sub> 0.80 |
| nitrous oxide                 | N <sub>2</sub> O 0.80              |

\*1 Thread according to DIN 477, Only left hand thread is marked LH. Right hand RH is not marked.  
\*2 at supply pressure of 2x outlet pressure + 1 bar

\* Product group

