



**Constant-pressure regulator**

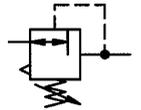
Size 4

**737.801 to 737.905**

G 1 1/4 (red.)

G 1 1/2

0.5 to 3 bar  
0.5 to 6 bar  
0.5 to 10 bar  
0.5 to 16 bar  
0.5 to 25 bar



**Characteristics**

|                                    |  |         |         |         |         |
|------------------------------------|--|---------|---------|---------|---------|
| Order No.                          | 737.901  | 737.902 | 737.903 | 737.904 | 737.905 |
| Port                               | <b>G 1 1/2</b>   |         |         |         |         |
| Order No.                          | 737.801  | 737.802 | 737.803 | 737.804 | 737.805 |
| Port                               | <b>G 1 1/4 (reduced)</b>   |         |         |         |         |
| Pressure gauge port                | G 1/4  |         |         |         |         |
| Type of construction               | Diaphragm pressure regulator with self-relieving design                        |         |         |         |         |
|                                    | <b>Special versions on request</b><br>e.g. - Reverse flow port closed          |         |         |         |         |
| Max. input pressure p <sub>1</sub> | <b>40 bar</b>  |         |         |         |         |
| Control range p <sub>2</sub>       | 0.5 to 3 bar / 0.5 to 6 bar / 0.5 to 10 bar /<br>0.5 to 16 bar / 0.5 to 25 bar |         |         |         |         |
| Mounting position                  | Any / <b>note direction of arrow</b>   |         |         |         |         |
| Mounting type                      | Bracket  |         |         |         |         |
| Medium temperature                 | -10 °C to 60 °C  |         |         |         |         |
| Ambient temperature                | -10 °C to 90 °C  |         |         |         |         |
| Weight [g]                         | 5050 / 5200 with pressure gauge  |         |         |         |         |

**Description**

- Standard design
- Conical double nipples (G 1 1/2) required for block mounting with other devices
- Pressure setting until 10 bar by adjusting screw with T-handle, 16 + 25 bar by hexagon screw a/f 19; setting can be locked with lock nut
- Flow direction indicated by arrows
- **Entry in direction of arrow**
- Working pressure remains virtually **onstant, regardless** of system pressure fluctuations and air consumption
- Pressure gauge Ø63 included, can be mounted at both ends
- Wall mounting with mounting bracket on cover
- Max. output pressure **25 bar**

**Materials**

| Part                          | Material         |
|-------------------------------|------------------|
| Head piece (body)             | Brass            |
| Spring bonnet/adjusting screw | Brass            |
| Diaphragm →                   | NBR-brass        |
| Pressure spring               | Galvanised steel |
| Valve cone →                  | NBR-brass        |
| Counter-pressure spring       | Stainless steel  |
| O-ring 52 x 3 →               | NBR              |

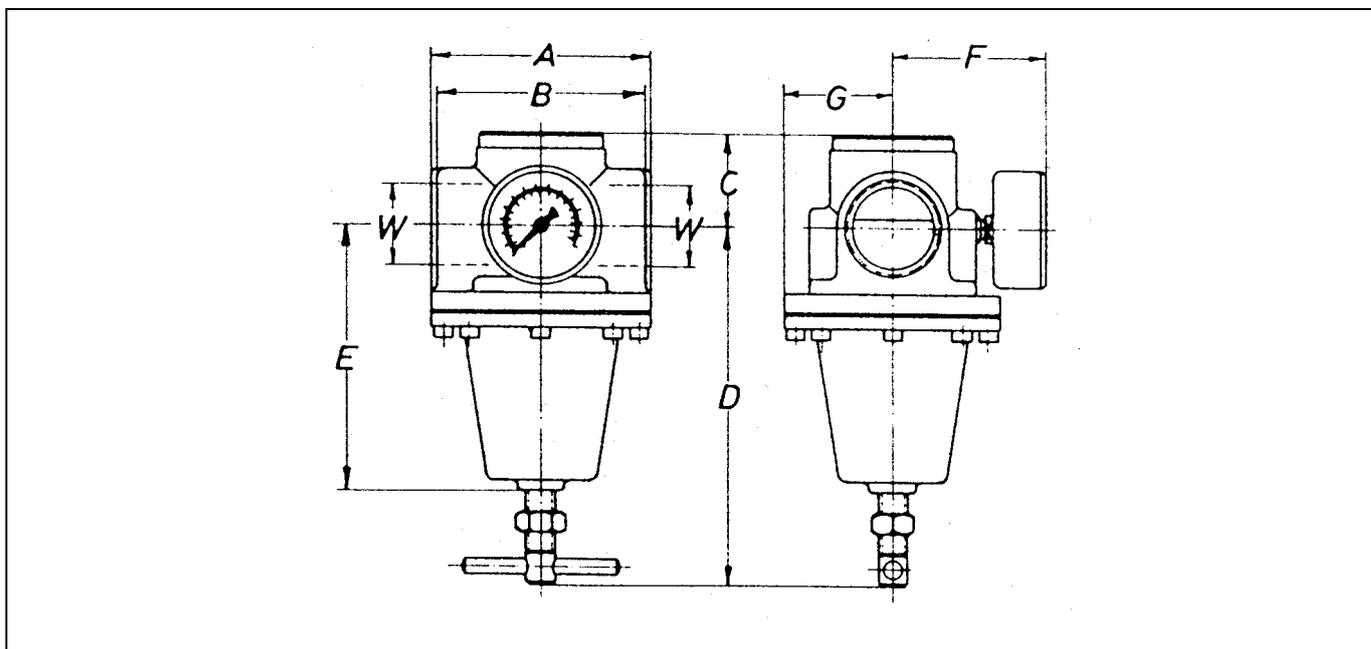
**Accessories**

| Designation                                | Order No. |
|--|-----------|
| Mounting bracket with 2 screws             | H 88      |
| Double nipple G 1½                         | 252.07/4  |
| Reducing nipple G 1 ½ male to G 1 ¼ female | 251.12    |

**Main spare parts**

| Part   | Part No. |
|--|----------|
| → Set of wearing parts<br>- Diaphragm, compl.<br>- Valve cone, compl.<br>- O-ring 52 x 3 | 22.793.4 |
| Pr. gauge Ø 63, G 1/4<br>0 to 4 bar  | 215-KD   |
| 0 to 6 bar   | 216-KD   |
| 0 to 10 bar  | 217-KD   |
| 0 to 16 bar  | 218-KD   |
| 0 to 25 bar  | 219      |

## Dimensions



## Dimensions [mm]

| Art. No.            | Dimensions |       |      |       |       |      |      |       | Rotary switch $\varnothing$ | hexagon a/f | Pr. gauge $\varnothing$ |  |
|---------------------|------------|-------|------|-------|-------|------|------|-------|-----------------------------|-------------|-------------------------|--|
|                     | A          | B     | C    | D     | E     | F    | G    | G 1/4 |                             |             | 63                      |  |
| 737.801 to 737.803  | 114.0      | 126.0 | 48.0 | 189.0 | 138.0 | 80.0 | 58.0 | 80    | -                           | G 1/4       | 63                      |  |
| 737.901 to 737.903  | 114.0      | 114.0 | 48.0 | 189.0 | 138.0 | 80.0 | 58.0 | 80    | -                           | G 1/4       | 63                      |  |
| 737.804 and 737.805 | 114.0      | 126.0 | 48.0 | 184.0 | 138.0 | 80.0 | 58.0 | -     | 19                          | G 1/4       | 63                      |  |
| 737.904 and 737.905 | 114.0      | 114.0 | 48.0 | 184.0 | 138.6 | 80.0 | 58.0 | -     | 19                          | G 1/4       | 63                      |  |

## Flow rates

Flow rates at  $p_1 > p_2 + 2$  bar / G 1 1/2 port

| Art. No.                           |                          | 737.801 | 737.802 | 737.803 | 737.804 | 737.805 |
|------------------------------------|--------------------------|---------|---------|---------|---------|---------|
|                                    |                          | 737.901 | 737.902 | 737.903 | 737.904 | 737.905 |
| Output pressure $p_2 = 6$ [bar]    | QN $\text{m}^3/\text{h}$ | 960     | 840     | 730     | 660     | 510     |
| Nominal flow ( $\Delta p < 1$ bar) | QN $\text{l}/\text{min}$ | 16000   | 14000   | 12160   | 11000   | 8500    |