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## LOW PRESSURE REGULATOR

Alfa 40 BP series, with balanced direct action regulation

### Product informations

**Alfa 40 BP** series regulator with balanced direct action equipped with external sensing line, suitable for the use of not corrosive gases as methane and LPG.

**Also available the version with minimum and maximum pressure shut-off valve downstream (sku 2448).**

| REGULATOR STRUCTURE |                    |
|---------------------|--------------------|
| 1                   | O-RING             |
| 2                   | O-RING             |
| 3                   | O-RING             |
| 4                   | BALANCING MEMBRANE |
| 5                   | O-RING             |
| 6                   | O-RING             |
| 7                   | PILL               |
| 8                   | O-RING             |
| 9                   | O-RING             |
| 10                  | MEMBRANE           |



## Low Pressure Regulator

| <i>REGULATOR STRUCTURE</i> |  |
|----------------------------|--|
| <i>A</i>                   | COMPLETE HEADER  |
| <i>B</i>                   | FULL LEVERAGE  |
| <i>C</i>                   | COMPLETE BLOCK   |
| <i>D</i>                   | SHUTTER SEAT   |
| <i>E</i>                   | BOTTOM PLATE + O-RING + SCREWS   |
| <i>F</i>                   | MEMBRANE PROTECTIVE PLATE  |
| <i>G</i>                   | <ul style="list-style-type: none"> <li>• BLUE SPRING Ø 3,5 (<i>SETTING 23 ÷ 30 MBAR</i>)</li> <li>• ORANGE SPRING Ø 4 (<i>SETTING 28 ÷ 42 MBAR</i>)</li> <li>• LIGHT BLUE SPRING Ø 5 (<i>SETTING 45 ÷ 90 MBAR</i>)</li> <li>• BROWN SPRING Ø 5,5 (<i>SETTING 75 ÷ 120 MBAR</i>)</li> </ul> |

## Technical Features

|                                 |  |
|---------------------------------|--|
| <i>FLOW RATE</i>                | <i>SEE TABLE UNDERLYING</i>  |
| <i>INLET CONNECTION</i>         | DN 40  |
| <i>OUTPUT CONNECTION</i>        | DN 40  |
| <i>INLET PRESSURE</i>           | 0,5 ÷ 5 BAR  |
| <i>OUTPUT PRESSURE</i>          | 16 ÷ 120 MBAR  |
| <i>STANDARD OUTPUT PRESSURE</i> | ON REQUEST   |
| <i>WORKING TEMPERATURE</i>      | - 20°C ÷ + 60°C  |
| <i>EXTERNAL SENSING LINE</i>    | Ø 10   |
| <i>MATERIALS</i>                | <ul style="list-style-type: none"> <li>• BODY: GS 400 CAST IRON</li> <li>• HEADER: DIE-CAST ALUMINIUM</li> <li>• SEAL: NITRILE RUBBER NBR OR HNBR</li> <li>• MEMBRANE: SANDWICH RUBBERIZED FABRIC</li> </ul> |



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|                   |                   |
|-------------------|-------------------|
| <b>DIMENSIONS</b> | 350 X 223 X 75 MM |
|-------------------|-------------------|

| <b>FLOW RATE TABLE M<sup>3</sup>/H</b> | <b>INLET PRESSURE</b> |                       |                       |
|--|-----------------------|-----------------------|-----------------------|
|  | 0,3 BAR               | 0,5 BAR               | 1 BAR                 |
| <b>25 MBAR</b>                         | 165 M <sup>3</sup> /H | 184 M <sup>3</sup> /H | 286 M <sup>3</sup> /H |
| <b>35 MBAR</b>                         | 164 M <sup>3</sup> /H | 168 M <sup>3</sup> /H | 276 M <sup>3</sup> /H |
| <b>OUTLET PRESSURE</b>                 |                       |                       |                       |
| <b>50 MBAR</b>                         | 164 M <sup>3</sup> /H | 218 M <sup>3</sup> /H | 324 M <sup>3</sup> /H |
| <b>100 MBAR</b>                        | 163 M <sup>3</sup> /H | 217 M <sup>3</sup> /H | 323 M <sup>3</sup> /H |
| <b>120 MBAR</b>                        | 139 M <sup>3</sup> /H | 203 M <sup>3</sup> /H | 317 M <sup>3</sup> /H |

***To obtain the LPG flow rates in kg/h, multiply the values in red by 1.42.***

| SKU         | MODEL   | PRICE                 |
|-------------|---|-----------------------|
| 00000002446 | ALFA 40 BP SERIES REGULATOR - DN 40 - DN 40 CONNECTION              | €1906.25 VAT EXCLUDED |
| 00000002448 | ALFA 40 BP SERIES REGULATOR - DN 40 - DN 40 CONNECTION - WITH BLOCK | €2409.0 VAT EXCLUDED  |



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