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## LOW PRESSURE REGULATOR

Alfa 10 BP series, with balanced direct action regulation

### Product informations

*Alfa 10 BP* series regulator with balanced direct action, equipped with external sensing line and safety relief valve; 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 2412).***

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



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| <i>REGULATOR STRUCTURE</i> |   |
|----------------------------|---|
| <i>11</i>                  | PILL  |
| <i>12</i>                  | LIP RING  |
| <i>13</i>                  | BALANCING MEMBRANE  |
| <i>A</i>                   | PLASTIC CAP + O-RING  |
| <i>B</i>                   | COMPLETE HEADER   |
| <i>C</i>                   | FULL LEVERAGE   |
| <i>D</i>                   | COMPLETE BLOCK  |
| <i>E</i>                   | SHUTTER SEAT + O-RING   |
| <i>F</i>                   | BOTTOM PLATE + O-RING + SCREWS  |
| <i>G</i>                   | MEMBRANE PROTECTIVE PLATE   |
| <i>H</i>                   | <ul style="list-style-type: none"> <li>• RED SPRING Ø 2 (<i>SETTING 30 ÷ 43 MBAR</i>)</li> <li>• YELLOW SPRING Ø 2,2 (<i>SETTING 42 ÷ 72 MBAR</i>)</li> <li>• BLUE SPRING Ø 2,5 (<i>SETTING 70 ÷ 110 MBAR</i>)</li> </ul> |
| <i>I</i>                   | ADJUSTMENT FERRULE  |

## Technical Features

|                                 |                      |
|---------------------------------|----------------------|
| <i>FLOW RATE</i>                | SEE TABLE UNDERLYING |
| <i>INLET CONNECTION</i>         | 1"                   |
| <i>OUTPUT CONNECTION</i>        | 1"                   |
| <i>INLET PRESSURE</i>           | 0,5 ÷ 5 BAR          |
| <i>OUTPUT PRESSURE</i>          | 16 ÷ 110 MBAR        |
| <i>STANDARD OUTPUT PRESSURE</i> | ON REQUEST           |
| <i>WORKING TEMPERATURE</i>      | - 20°C ÷ + 60°C      |



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|                              |  |
|------------------------------|--|
| <b>EXTERNAL SENSING LINE</b> | Ø 10   |
| <b>MATERIALS</b>             | <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> |
| <b>DIMENSIONS</b>            | 180 X 100 X 50 MM  |

| <b>FLOW RATE TABLE M<sup>3</sup>/H</b> | <b>INLET PRESSURE</b> |                      |                      |                      |
|--|-----------------------|----------------------|----------------------|----------------------|
|  | 0,3 BAR               | 0,5 BAR              | 0,8 BAR              | 1 BAR                |
| <b>25 MBAR</b>                         | 33 M <sup>3</sup> /H  | 41 M <sup>3</sup> /H | 55 M <sup>3</sup> /H | 82 M <sup>3</sup> /H |
| <b>35 MBAR</b>                         | 32 M <sup>3</sup> /H  | 40 M <sup>3</sup> /H | 54 M <sup>3</sup> /H | 81 M <sup>3</sup> /H |
| <b>50 MBAR</b>                         | 30 M <sup>3</sup> /H  | 39 M <sup>3</sup> /H | 53 M <sup>3</sup> /H | 80 M <sup>3</sup> /H |
| <b>100 MBAR</b>                        | 23 M <sup>3</sup> /H  | 36 M <sup>3</sup> /H | 51 M <sup>3</sup> /H | 79 M <sup>3</sup> /H |

**OUTLET PRESSURE**

***To obtain the LPG flow rates in kg/h, multiply the values in red by 1,42.***

| SKU         | MODEL   | PRICE               |
|-------------|---|---------------------|
| 00000002410 | ALFA 10 BP SERIES REGULATOR - 1"X1" CONNECTION              | €513.0 VAT EXCLUDED |
| 00000002412 | ALFA 10 BP SERIES REGULATOR - 1"X1" CONNECTION - WITH BLOCK | €874.0 VAT EXCLUDED |



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