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## LOW PRESSURE REGULATOR

Alfa 20 BP series, with balanced direct action regulation

### Product informations

**Alfa 20 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 2424).***

| 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 |



## Low Pressure Regulator

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

## Technical Features

|                          |                      |
|--------------------------|----------------------|
| FLOW RATE                | SEE TABLE UNDERLYING |
| INLET CONNECTION         | 1"                   |
| OUTPUT CONNECTION        | 1" 1/2               |
| INLET PRESSURE           | 0,5 ÷ 5 BAR          |
| OUTPUT PRESSURE          | 16 ÷ 110 MBAR        |
| STANDARD OUTPUT PRESSURE | ON REQUEST           |
| WORKING TEMPERATURE      | - 20°C ÷ + 60°C      |



## Low Pressure Regulator

|                       |                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXTERNAL SENSING LINE | Ø 10                                                                                                                                                                                                         |
| MATERIALS             | <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> |
| DIMENSIONS            | 180 X 130 X 50 MM                                                                                                                                                                                            |

| FLOW RATE TABLE M <sup>3</sup> /H | INLET PRESSURE       |                      |                       |                       |
|-----------------------------------|----------------------|----------------------|-----------------------|-----------------------|
|                                   | 0,3 BAR              | 0,5 BAR              | 0,8 BAR               | 1 BAR                 |
| 25 MBAR                           | 62 M <sup>3</sup> /H | 78 M <sup>3</sup> /H | 102 M <sup>3</sup> /H | 152 M <sup>3</sup> /H |
| 35 MBAR                           | 60 M <sup>3</sup> /H | 77 M <sup>3</sup> /H | 101 M <sup>3</sup> /H | 151 M <sup>3</sup> /H |
| 50 MBAR                           | 58 M <sup>3</sup> /H | 75 M <sup>3</sup> /H | 100 M <sup>3</sup> /H | 151 M <sup>3</sup> /H |
| 100 MBAR                          | 49 M <sup>3</sup> /H | 69 M <sup>3</sup> /H | 97 M <sup>3</sup> /H  | 150 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                 |
|-------------|-------------------------------------------------------------|-----------------------|
| 00000002422 | ALFA 20 BP SERIES REGULATOR - 1"X1" CONNECTION              | €670.35 VAT EXCLUDED  |
| 00000002424 | ALFA 20 BP SERIES REGULATOR - 1"X1" CONNECTION - WITH BLOCK | €1068.35 VAT EXCLUDED |



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