

Preparation of compressed air → Maintenance units and components

**3/2-way valve, electrically operated, Series AS2-SOV**

► G 1/4 - G 3/8 ► pipe connection



00133928

|                               |  |
|-------------------------------|--|
| Version                       | Poppet valve, Can be assembled into blocks |
| Sealing principle             | soft sealing                               |
| Working pressure min./max.    | 2.5 bar / 10 bar                           |
| Ambient temperature min./max. | -10 °C / +50 °C                            |
| Medium temperature min./max.  | -10 °C / +50 °C                            |
| Medium                        | Compressed air                             |
| Max. particle size            | 5 µm                                       |
| <b>Materials:</b>             |  |
| Housing                       | Polyamide                                  |
| Seals                         | Acrylonitrile Butadiene Rubber             |
| Front plate                   | Acrylonitrile butadiene styrene            |
| Threaded bushing              | Die cast zinc                              |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- ATEX optional: The ATEX ID depends on the selected pilot valve.
- A short silencer is required for wall mounting (see accessories e.g. R412004817).

| DC   | Operating voltage |          | Power consumption<br>W | Switch-on power |          | Holding power |          |
|------|-------------------|----------|------------------------|-----------------|----------|---------------|----------|
|      | AC 50 Hz          | AC 60 Hz |                        | AC 50 Hz        | AC 60 Hz | AC 50 Hz      | AC 60 Hz |
|      | VA                | VA       |                        | VA              | VA       | VA            | VA       |
| 24 V | -                 | -        | 2                      | -               | -        | -             | -        |
| -    | 110 V             | 110 V    | -                      | 2.2             | 1.6      | 1.6           | 1.4      |
| -    | 220 V             | 230 V    | -                      | 2.2             | 1.6      | 1.6           | 1.4      |
| 24 V | -                 | -        | -                      | -               | -        | -             | -        |

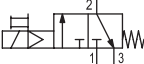
| Port | Exhaust | Operating voltage |          |          | Qn      |      | Weight<br>[kg] | Note  | Part No.          |                   |            |
|------|---------|-------------------|----------|----------|---------|------|----------------|-------|-------------------|-------------------|------------|
|      |         | DC                | AC 50 Hz | AC 60 Hz | 1►2     | 2►3  |                |       |                   |                   |            |
|      |         |                   |          |          | [l/min] |      |                |       |                   |                   |            |
|      | G 1/4   |                   |          |          |         |      |                |       | Fig. 1; 1);<br>6) | R412006264        |            |
|      |         |                   |          |          |         |      |                |       |                   | Fig. 1; 1);<br>6) | R412006268 |
|      |         |                   |          |          |         | 2000 | 380            | 0.219 |                   | Fig. 2; 2);<br>6) | R412006258 |
|      |         |                   |          |          |         |      |                |       |                   | Fig. 2; 2);<br>6) | R412006259 |

- 1) Basic valve without pilot valve
  - 2) Basic valve without pilot valve, with CNOMO subbase
  - 3) Basic valve with pilot valve
  - 4) Protection class according to EN 60529: IP 65
  - 5) Electr. connection: Plug; M12x1
  - 6) ATEX optional
- Nominal flow Qn at 6.3 bar and Δp = 1 bar.

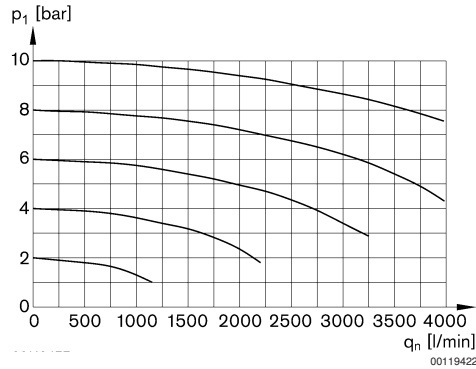
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|  | Port  | Exhaust | Operating voltage |          |          | Qn      |     | Weight | Note                  | Part No.   |
|--|-------|---------|-------------------|----------|----------|---------|-----|--------|-----------------------|------------|
|  |       |         | DC                | AC 50 Hz | AC 60 Hz | 1▶2     | 2▶3 |        |                       |            |
|  |       |         |                   |          |          | [l/min] |     |        |                       |            |
|  | G 1/4 |         | 24 V              | -        | -        |         |     |        | Fig. 3; 3);<br>4)     | R412006265 |
|  | G 1/4 |         | -                 | 110 V    | 110 V    |         |     |        | Fig. 3; 3);<br>4)     | R412006266 |
|  | G 1/4 |         | -                 | 220 V    | 230 V    |         |     |        | Fig. 3; 3);<br>4)     | R412006267 |
|  | G 3/8 | G 1/4   | 24 V              | -        | -        | 2000    | 380 | 0.219  | Fig. 3; 3);<br>4)     | R412006269 |
|  | G 3/8 |         | -                 | 110 V    | 110 V    |         |     |        | Fig. 3; 3);<br>4)     | R412006270 |
|  | G 3/8 |         | -                 | 220 V    | 230 V    |         |     |        | Fig. 3; 3);<br>4)     | R412006271 |
|  | G 1/4 |         | 24 V              | -        | -        |         |     |        | Fig. 4; 3);<br>4); 5) | R412006291 |

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- 5) Electr. connection: Plug; M12x1
- 6) ATEX optional

Nominal flow Qn at 6.3 bar and  $\Delta p = 1$  bar.**Flow rate characteristic**

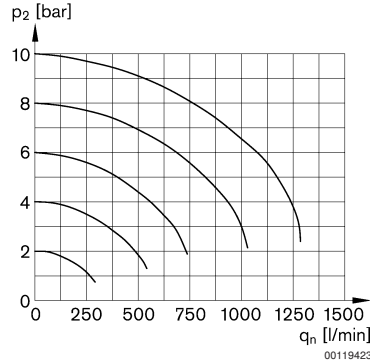
$p_1$  = working pressure  
 $q_n$  = nominal flow

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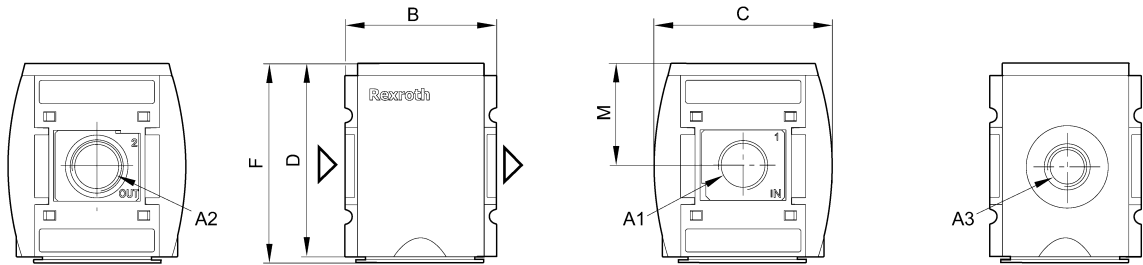
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**Rear exhaust**



p2 = secondary pressure  
qn = nominal flow

**Fig. 1: Filling unit without pilot valve with porting configuration for series DO16**



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| A1    | A2    | A3    | B  | C  | D  | E1 | F  | M  |  |  |  |  |  |
|-------|-------|-------|----|----|----|----|----|----|--|--|--|--|--|
| G 1/4 | G 1/4 | G 1/4 | 52 | 59 | 65 | 22 | 67 | 34 |  |  |  |  |  |
| G 3/8 | G 3/8 | G 1/4 | 52 | 59 | 65 | 22 | 67 | 34 |  |  |  |  |  |



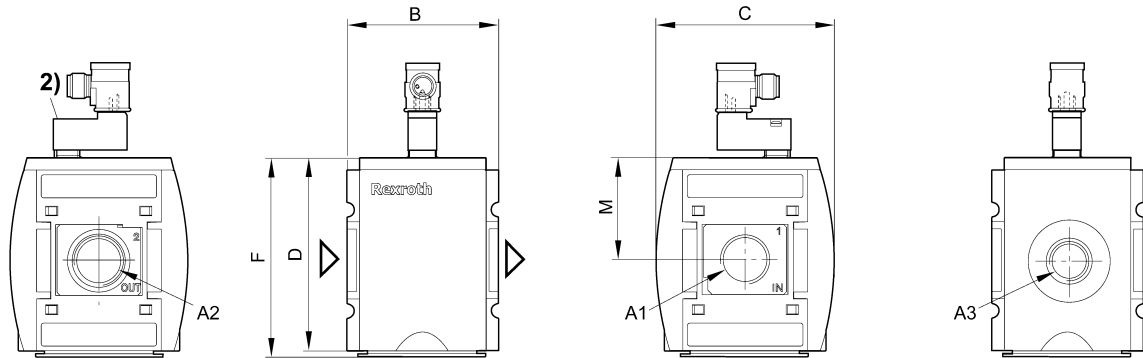
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| A1    | A2    | A3    | B  | C  | D  | E1 | F  | M  |  |  |  |  |  |
|-------|-------|-------|----|----|----|----|----|----|--|--|--|--|--|
| G 1/4 | G 1/4 | G 1/4 | 52 | 59 | 65 | 22 | 67 | 34 |  |  |  |  |  |
| G 3/8 | G 3/8 | G 1/4 | 52 | 59 | 65 | 22 | 67 | 34 |  |  |  |  |  |

**Fig. 4: Filling unit with pilot valve and electrical connector for plug**



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2) M12 plug

| A1    | A2    | A3    | B  | C  | D  | E1 | F  | M  |  |  |  |  |  |
|-------|-------|-------|----|----|----|----|----|----|--|--|--|--|--|
| G 1/4 | G 1/4 | G 1/4 | 52 | 59 | 65 | 22 | 67 | 34 |  |  |  |  |  |
| G 3/8 | G 3/8 | G 1/4 | 52 | 59 | 65 | 22 | 67 | 34 |  |  |  |  |  |