

# **Service unit**

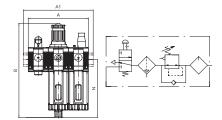
»SYNTESI« series

## PLUS

Art. No. 144994

Type No. 5623V10B16L103





Exemplary illustration

Three-part maintenance units consisting of shut-off valve, filter regulator and lubricator of the »SYNTESI« series. For all information on the relevant properties, please refer to the data sheets of the individual components.

The shut-off valve is the manual version with 3.5 mm hole for padlocks.

Silencer not included in delivery!

Pressure gauge not included in delivery!



#### **Technical data**

| Series                                   | Syntesi   |
|--|---|
| Size                                     | 2   |
| Max. input pressure                      | 13 bar  |
| Temperature range                        | -10 to 50 °C  |
| Control range                            | 0 - 12 bar  |
| Input                                    | G 3/8   |
| Output                                   | G 3/8   |
| Front and back port thread               | G 1/4   |
| Flow rate measurement 1                  | at $P_1$ = 10 bar, $P_2$ = 6.3 bar and pressure drop $\Delta_p$ = 0.5 bar |
| Flow rate 1                              | 1200 NI/min   |
| Flow rate measurement 2                  | at $P_1 = 10$ bar, $P_2 = 6.3$ bar and pressure drop $\Delta_p = 1$ bar   |
| Flow rate 2                              | 4000 NI/min   |
| Filter rating                            | 5 μm  |
| Condensate drain                         | RMSA semi-automatic   |
| Output air purity class according 8573-1 | to ISO 3.7  |
| Medium                                   | Compressed air or other neutral gases                                     |
| Housing                                  | Technopolymer   |
| Sealant                                  | NBR   |
| Diaphragms                               | NBR 60 Shore (hardness) with polyester fabric insert                      |
| Bowl                                     | Technopolymer   |
| Sight dome                               | Brass   |
| Spring bonnet                            | Technopolymer   |
| A  | 181.5 mm  |
| A1                                       | - mm  |
| В  | 246.0 mm  |
| N  | 139.8 mm  |

### **Commercial data**

| Customs tariff number   | 84811005              |
|-------------------------|-----------------------|
| Country of origin       | IT                    |
| eCl@ss 5.1.4            | 27292890              |
| eCl@ss 9.0              | 27292890              |
| UNSPSC_Code_v190501     | 27131604              |
| UNSPSC_CodeDesc_v190501 | Pneumatic lubricators |



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# V3V + FR + LUB SUNTESi.

For full details and list of components refer to the sections about shut-off valve, filter-regulator and lubricator.



V3V + FR + LUB Syntesi®

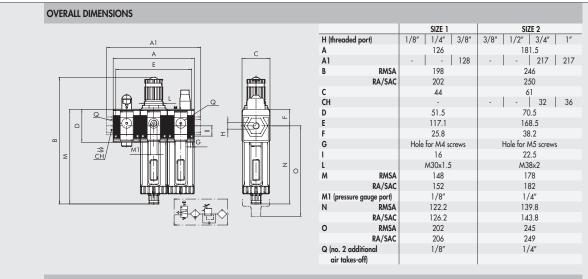
| TECHNICAL DATA   |                 | V3V + FR + LUB SY1               | V3V + FR + LUB SY2  |
|--|-----------------|----------------------------------|---|
| Threaded port  |                 | 1/8' 1/4" 3/8"                   | 3/8" 1/2" 3/4" 1"   |
| Degree of filtration   | μm              |                                  | air purity class ISO8573-1: 3.7                                 |
|  |                 |                                  | air purity class ISO8573-1: 4.7                                 |
|  |                 | 50 (blue) - output               | air purity class ISO8573-1: 5.7                                 |
| Max. inlet pressure  | bar             | 15                               | 13  |
|  | MPa             | 1.5                              | 1.3   |
|  | psi             | 217                              | 188   |
| Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi) | NI/min          | 250                              | 1200  |
| (P In=10 bar)  | scfm            | 9                                | 42.5  |
| Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)   | NI/min          | 1050                             | 4000  |
| (P In=10 bar)  | scfm            | 37                               | 141.5   |
| Relief valve flow rate at 6.3 bar (0.63 MPa; 91 psi)                 | NI/min          | 70                               | 100   |
|  | scfm            | 2.5                              | 3.5   |
| Min/max temperature at 10 bar; 1 MPa; 145 psi                        | °C              | From -10 to +50                  | From -10 to +50   |
| Full outflow with zero inlet pressure                                |                 | Included                         | Included  |
| Drain flow rate at 6.3 bar (0.63 MPa; 91 psi)                        | NI/min          | 500                              | 2000  |
|  | scfm            | 18                               | 71  |
| Padlockable knob   |                 | Included wi                      | th both V3V and regulator                                       |
| Upstream pressure compensation                                       |                 |                                  | ed, via balanced valve  |
| Weight   | g               | 598 593 584                      | 1479 1452 1448 1436   |
| Fluid  |                 |                                  | ed air or other inert gases                                     |
| Mounting position  |                 | Vertical                         | Vertical  |
| Additional air take-off, for pressure gauges or fittings             | ) II / )        | 1/8", front and rear             | 1/4", front and rear  |
| Additional air take-off flow rate at 6.3 bar                         | NI/min          | 500 (V3V) - 500 (FR) - 450 (LUB) | 1500 (V3V) - 1400 (FR) - 800 (LUB)                              |
| (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)                        | scfm            | 18 (V3V) - 18 (FR) - 16 (LUB)    | 53 (V3V) - 49.5 (FR) - 28 (LUB)                                 |
| Filter bowl capacity   | cm <sup>3</sup> | 30                               | 70  |
| Quantity of filled oil   | cm <sup>3</sup> | 60                               | 130   |
| Condensate drain   |                 |                                  | discharge and automatic discharge at zero pressure              |
|  |                 |                                  | e discharge, independent of pressure and flow rate.             |
|  |                 |                                  | the pipe having internal diameter 6 mm in the lower port.       |
|  |                 |                                  | e. Operates by pressure drop – requires variable air take-offs. |
| Recommended oils   |                 |                                  | ure for the RA version must not exceed 10 bar                   |
| Recommended oils   |                 | _                                | O and UNI FD22  |
| WILE:  |                 |                                  | Spinesso; Mobil DTE; Tellus oil)                                |
| Wall fixing screws   |                 | No. 2 M4 screws                  | No. 2 M5 screws   |
|  |                 |                                  |   |
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| 56                                       | 1   | 1   | ٧            | 10   | В                      | 24   | L            | 10                                      | 1   |
|--|---|---|--------------|--|------------------------|--|--------------|---|---|
| SYNTESI                                  | SIZE  | THREADED<br>INPUT<br>CONNECTION   | ELEMENT      | TYPE   | ELEMENT                | DEGREE OF FILTRATION, TYPE<br>OF CONDENSATE DRAIN AND<br>SETTING RANGE   | ELEMENT      | OIL<br>FILLING                          | THREADED<br>OUTPUT<br>CONNECTION  |
| 6 Syntesi<br>X Syntesi<br>anti-corrosion | 1 Size 1  2 Size 2                            | 1 1/8" port<br>2 1/4" port<br>3 3/8" port<br>3 3/8" port<br>4 1/2" port<br>5 3/4" port<br>6 1" port | <b>V</b> V3V | 10 Manual with Ø3.5 hole for padlocks 11 Manual with Ø7 hole for padlock | B Filter-<br>regulator | • 10 5 µm, RMSA, 0 to 2 bar • 20 20 µm, RMSA, 0 to 2 bar • 30 50 µm, RMSA, 0 to 2 bar • 40 5 µm, RA, 0 to 2 bar • 50 20 µm, RA, 0 to 2 bar • 50 20 µm, RA, 0 to 2 bar • 11 5 µm, SAC, 0 to 2 bar • 11 5 µm, SAC, 0 to 2 bar • 12 120 µm, SAC, 0 to 2 bar • 13 50 µm, SAC, 0 to 2 bar • 14 25 µm, RMSA, 0 to 4 bar • 12 5 µm, RMSA, 0 to 4 bar • 12 50 µm, RA, 0 to 4 bar • 13 50 µm, RA, 0 to 4 bar • 14 5 µm, RA, 0 to 4 bar • 15 20 µm, RA, 0 to 4 bar • 15 5 µm, SAC, 0 to 4 bar • 16 50 µm, RA, 0 to 8 bar • 17 50 µm, RMSA, 0 to 8 bar • 18 50 µm, RMSA, 0 to 8 bar • 19 50 µm, RMSA, 0 to 8 bar • 10 50 µm, RMSA, 0 to 8 bar • 10 50 µm, RMSA, 0 to 8 bar • 10 50 µm, RMSA, 0 to 8 bar • 10 50 µm, RMSA, 0 to 8 bar • 10 50 µm, RMSA, 0 to 8 bar • 10 50 µm, RMSA, 0 to 8 bar • 10 50 µm, RMSA, 0 to 8 bar • 10 50 µm, RA, 0 to 8 bar • 10 50 µm, RA, 0 to 8 bar • 10 50 µm, RA, 0 to 8 bar • 10 50 µm, RA, 0 to 8 bar • 10 50 µm, RA, 0 to 8 bar • 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | L Lubricator | 10 Manual<br>filling<br>from<br>the top | 1 1/8" port<br>2 1/4" port<br>3 3/8" port<br>3 3/8" port<br>4 1/2" port<br>5 3/4" port<br>6 1" port |
| A: automatic o                           | ersion availa<br>manual cond<br>Irain with co |   | , independen | t of pressure and  | flow rate.             | 35 50 μm, SAC, 0 to 8 bar<br>16 5 μm, RMSA, 0 to 12 bar<br>26 20 μm, RMSA, 0 to 12 bar<br>36 50 μm, RMSA, 0 to 12 bar<br>46 5 μm, RA, 0 to 12 bar  |              |   |   |

variable air take-offs

SAC:

the lower port.
automatic drain with condensate discharge. Operates by pressure drop – requires

**46** 5 μm, RA, 0 to 12 bar **56** 20 μm, RA, 0 to 12 bar

50 μm, RA, 0 to 12 bar

17 5 μm, SAC, 0 to 12 bar 27 20 μm, SAC, 0 to 12 bar 37 50 μm, SAC, 0 to 12 bar

V3V + FR + LUB Syntesi®



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| Code Description                             | ents composed at your will according to the key to codes. |  |
|--|---|--|
|  | Code Description  |  |
| '3V + FR + LUB Syntesi⊚ SY1                  | V3V + FR + LUB Syntesi⊚ SY2                               | NOTE                                       |
| 6611V10B24L101 V3V+FR+LUB SY1 1/8 20 08 RMSA | 5623V10B24L103 V3V+FR+LUB SY2 3/8 20 08 RMSA              | Anti-corrosion version                     |
| 6611V10B54L101 V3V+FR+LUB SY1 1/8 20 08 RA   | 5623V10B54L103 V3V+FR+LUB SY2 3/8 20 08 RA                | 5 <mark>X</mark>                           |
| 6612V10B24L102 V3V+FR+LUB SY1 1/4 20 08 RMSA | 5624V10B24L104 V3V+FR+LUB SY2 1/2 20 08 RMSA              | Example                                    |
| 612V10B54L102 V3V+FR+LUB SY1 1/4 20 08 RA    | 5624V10B54L104 V3V+FR+LUB SY2 1/2 20 08 RA                | 5X11V10B54L101 V3V+FR+LUB SY1 1/8 20 08 RA |
| 613V10B24L103 V3V+FR+LUB SY1 3/8 20 08 RMSA  | 5625V10B24L105 V3V+FR+LUB SY2 3/4 20 08 RMSA              | anti-corrosion                             |
| 613V10B54L103 V3V+FR+LUB SY1 3/8 20 08 RA    | 5625V10B54L105 V3V+FR+LUB SY2 3/4 20 08 RA                |  |
|  | 5626V10B24L106 V3V+FR+LUB SY2 1 20 08 RMSA                |  |
|  | 5626V10B54L106 V3V+FR+LUB SY2 1 20 08 RA                  |  |
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V3V + FR + LUB Syntesi®

RIEGLER & Co. KG Schützenstraße 27 72574 Bad Urach Tel. +49 7125 9497-642 technik@riegler.de



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# GENERAL TECHNICAL DATA SUNTESI.

Syntesie is an important milestone achieved by Metal Work, the result of thirty years' experience producing air-treatment units. It has been studied in minute detail to obtain the best possible performance in a reduced space and with limited weight. The capacity is much higher than that of other units of the same size.

This modular unit features a very simple yet effective system that requires no brackets, stay bolts or yoke for assembling the elements. The basic version of Syntesi® incorporates numerous functions that are not provided or are only optional with traditional units. Examples are padlockable knobs, additional pneumatic ports on the front and back, flow options from left to right or vice versa, regulators with compensation system - which are accurate even when the upstream pressure changes, with rapid downstream pressure relief - full indelible marking, automatic condensate drain even in size 1, and 360° visual inspection of oil and condensate levels. The basic materials, technopolymer and nickel-plated brass have excellent corrosion resistance. An anti-corrosion version is available with stainless steel components (screws, plates) or Geomet®-reated ones (regulator springs).



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GENERAL TECHNICAL DATA Syntesi®

| TECHNICAL DATA   |     |          | SIZE          | 1         |               |                                   |         |              | SIZE 2   | 2         |          |    |
|--|-----|----------|---------------|-----------|---------------|-----------------------------------|---------|--------------|----------|-----------|----------|----|
| Threaded port  |     | 1/8″     | 1/4"          |           | 3/8"          | 3/8"                              |         | 1/2"         | Т        | 3/4"      |          | 1″ |
| Max. input pressure                                      | bar |          | 15            |           |               |                                   |         |              | 13       |           |          |    |
|  | MPa |          | 1.5           |           |               |                                   |         |              | 1.3      |           |          |    |
|  | psi |          | 217           |           |               |                                   |         |              | 188      |           |          |    |
| Flow rate  |     |          |               |           | See catal     | ogue of the vari                  | ous ele |              |          |           |          |    |
| Min/max temperature at 10 bar; 1 MPa; 145 psi            | °C  |          | from -10 to   |           |               | l                                 |         |              | n -10 to |           |          |    |
| Padlockable knob   |     | T        | he knobs of t | he regulo |               | ators and stando                  |         |              | ves can  | all be po | idlocked |    |
| Fluid  |     |          |               |           |               | ssed air or other                 |         |              |          |           |          |    |
| Mounting position  |     |          |               |           |               | ogue of the vari                  |         |              |          |           |          |    |
| Direction of flow  |     |          |               |           |               | ons right to left                 |         |              |          |           |          |    |
| Additional air take-off, for pressure gauges or fittings |     | 1/8", tr | ont and rear, |           | odules        |                                   | 1/4     | 4", front ar |          |           | odules   |    |
| Wall fixing screws                                       |     |          | No. 2 M4 s    | crews     |               |                                   | _       |              | 2 M5 s   | crews     |          |    |
| Certification for potentially explosive atmosphere       |     |          |               | ⟨₹        | II 3G Ex h    | iIC T5 Gc -10°C<br>IIC T100 °C Dc | < Ta <  | < 50°C       |          |           |          |    |
| according to Atex 2014/34/EU rule                        |     |          |               | 6         | △/    3D Ex h | IIC 1100 °C Dc                    |         |              |          |           |          |    |
|  |     |          |               |           |               |                                   |         |              |          |           |          |    |
|  |     |          |               |           |               |                                   |         |              |          |           |          |    |
|  |     |          |               |           |               |                                   |         |              |          |           |          |    |
|  |     |          |               |           |               |                                   |         |              |          |           |          |    |
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|  |     |          |               |           |               |                                   |         |              |          |           |          |    |
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|  |     |          |               |           |               |                                   |         |              |          |           |          |    |
|  |     |          |               |           |               |                                   |         |              |          |           |          |    |

#### ANTI-CORROSION VERSION

Differences compared to the standard version:

- stainless steel screws
- stainless steel plate for R, FR, V3V knobs
- Geomet®-treated regulator spring and filter-regulator

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GENERAL TECHNICAL DATA Syntesi®





#### **ROTARY BUSHINGS**

#### LASER MARKING









The following is marked indelibly on the body:
- Metal Work trademark

- Code
- Maximum pressure and temperature Degree of filtration or pressure range, where relevant
- Week and year of manufacture
- Atex categoryMade in Italy

#### **MOUNTING OPTIONS**

#### On the wall, using two screws



#### On a panel



#### Using knob bracket



#### Using a bracket



The bracket can be secured in any position, and the fittings can be mounted on the pressure gauge air intake at the back of the unit.

#### On a DIN EN50022 bar with the apposite adaptator





C1 A





The various elements of Syntesie (a) can be connected to the air feed and delivery circuit using pneumatic nickel brass or passivated aluminium ports (B) and can be fixed together using nipples ©.

The nipples and ports are easy to remove by unscrewing the two front screws <sup>®</sup>. This solution has numerous advantages:

- Reduced overall dimensions.
- Free composition of multiple elements, without the need for brackets, stay bolts or yoke.
- The threads for the fittings are metallic, allowing high tightening torques, also for tapered threads.

   Maximum flexibility: a unit can be transformed at any time by adding an element or replacing a port with another one, e.g. 1/4" instead of 1/8".

- The air intake port can be the same or different from the outlet port, as desired. Standard Syntesi⊕ ports are: 1/8", 1/4", 3/8" for size 1; 3/8", 1/2", 3/4", 1" for size 2.

It may be necessary to use a vice to insert the bushes into size 2.

The nipples have different functions:

- Nipple © joins two elements of the same size together.
- Size adaptor © can be used to connect an element in the Syntesi® 2 series with one in the Syntesi® 1 series.
- The 90° adaptor (E) can be used to connect two 90° angled elements. For example, it can help directing the regulator knob or the control knob of a sectioning valve towards the user.
- The two-way air intake @ is a simple and cost-effective system which, besides connecting two elements together, has 2 opposing threaded air intakes.

- The adaptor for Regtronic ® can be used to fix the Regtronic 1/4" proportional valve to a Syntesi® size 1 element.

Additional ports ©. On the front and back of ALL Syntesi® elements there is a port (1/8" for size 1, 1/4" for size 2) that can be used for pressure gauges ©, pressure switches @ or, given the high flow rate, as additional air take-off @. These ports are downstream of the element, so, for example, a regulator port can supply air at a set pressure or a filter port can supply filtered air (not valid for activated carbon filter and depurator).

Wall fixing. Only two through screws @ are needed. No bulky brackets or additional flanges are required. The bracket @ can be used to separate

the unit from the fixing wall, e.g. to mount a fitting to the rear port.

Fixing on a DIN EN50022 bar. Can be done using the bracket kit ①.

Regulator fixing bracket ②. Regulators and filter-regulators can also be fixed using a steel bracket ③ that embraces the bell.

Padlockable knob ®. The knobs of regulators, filter-regulator and sectioning valves can all be padlocked. The steel plate is included in the supply. You can insert up to two 3 mm diameter padlocks ® on size 1 and three padlocks on size 2. As an alternative, the sectioning valve can have a steel plate suitable for a single 6 mm diameter padlock.

Safety valve (S). The unit can incorporate a series 70 SAFE AIR® safety valve.

Flowmeter series FLUX 1-2 (1). The unit can incorporate a series FLUX 1 or FLUX 2 flow meter.

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UNITS

Syntesi® KEY TO CODES

# SUNTESI: KEY TO CODES

| KEY TO CODES S                             | SINGLE ELEMEN     | NT  |  |                                |   |
|--|-------------------|---|--|--------------------------------|---|
| 56   | 1                 | 1   | F  | 10                             | 1   |
| SYNTESI                                    | SIZE              | THREADED INPUT CONNECTION   | ELEMENT  | TYPE                           | THREADED OUTPUT CONNECTION  |
| 56 Syntesi<br>5X Syntesi<br>anti-corrosion | 1 Size 1 2 Size 2 | O Without bushing 1 1/8" port 2 1/4" port 3 3/8" port O Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port | F Filter D Depurator C Active carbon filter R Pressure regulator B Filter-regulator L Lubricator ● V Shur off valve A A Progressive starter A S Pressure switches P Air take-off | Varies from element to element | O Without bushing 1 1/8" port 2 1/4" port 3 3/8" port O Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port |

- The anti-corrosion version of this element is only available with manual actuation.
   Not available in the anti-corrosion version.

| KEY TO CODES UNIT CO                     | MPOSED OF TWO                   | OR THREE ELEME   | ENTS                                    |  |   |  |   |   |
|--|---------------------------------|--|---|--|---|--|---|---|
| 56 1                                     | 1                               | ٧  | 10                                      | В  | 24                                      | L  | 10                                      | 1   |
| SYNTESI SIZE                             | THREADED<br>INPUT<br>CONNECTION | ELEMENT 1  | TYPE                                    | ELEMENT 2  | TYPE                                    | ELEMENT 3  | TYPE                                    | THREADED<br>OUTPUT<br>CONNECTION  |
| 56 Syntesi Syntesi onti-corrosion 2 Size | 2 1/4" port<br>3 3/8" port      | F Filter D Depurator C Active carbon filter R Pressure regulator B Filter regulator L lubricator ● V Shut off valve A Progressive starter A S Pressure switches P Air Take-off | Varies<br>from<br>element to<br>element | F Filter D Depurator C Active carbon filter R Pressure regulator B Filter regulator L lubricator ● V Shut off valve A Progressive starter A S Pressure switches P Air Take-off | Varies<br>from<br>element to<br>element | F Filter D Depurator C Active carbon filter R Pressure regulator B Filter- regulator L lubricator ● V Shut off valve A A Progressive starter A S Pressure switches P Air Take-of | Varies<br>from<br>element to<br>element | 1 1/8" port<br>2 1/4" port<br>3 3/8" port<br>3 3/8" port<br>4 1/2" port<br>5 3/4" port<br>6 1" port |

- The anti-corrosion version of this element is only available with manual actuation.
   Not available in the anti-corrosion version.



#### **Accessories**

| 9210106<br>9210107<br>9210156<br>9210157<br>9210232<br>9210233<br>9200717X<br>9200718X |
|--|
| 9210156<br>9210157<br>9210232<br>9210233<br>9200717X                                   |
| 9210157<br>9210232<br>9210233<br>9200717X  |
| 9210232<br>9210233<br>9200717X   |
| 9210233<br>9200717X  |
| 9200717X   |
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| 9210019  |
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| 9210031  |
| 9062401  |
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## **Spareparts**

|  | Art. No. | Type No. |
|--|----------|----------|
| Bowl, size 2, RMSA semi-automated                  | 145614   | 9210105  |
| Bowl for lubricator, size 2, PA12                  | 145618   | 9210115  |
| Filter element, size 2, 5 µm                       | 145622   | 9210155  |
| Lubricator dome (drip cap), s2, w. oil filling cap | 145630   | 9210185  |
| Oil filling cap, size 2                            | 145632   | 9210186  |
| Spring, size 2, 0 - 12 bar                         | 145640   | 9210198  |
| Regulator cap (bell), size 2, 0 - 12 bar           | 145648   | 9210223  |
| Valve poppet for filter regulator, size 2, 5 μm    | 145654   | 9210231  |
| Threaded port bushing, size 2, G 3/8               | 144691   | 9210011  |