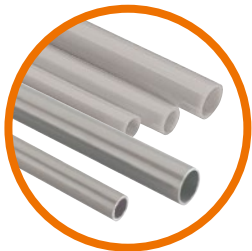


# Pipe system and point of use



## AIRnet 15-28mm range



Polyamide pipe diameter  
15-28mm in rolls or in pipe  
length  
Aluminum pipe 15-28mm

**Page 8**



Stainless steel click-fit  
connectors, with integrated  
retaining claws acting as a  
force lock for pipe retaining

**Page 9**



Compressed air outlet  
compatible with AIRnet  
system, and compatible  
with outlet couplers

**Page 14-15**



Hoses and workshop  
connection and extension  
to connect to your point  
of use, fits different  
requirements

**Page 17-22**



For all connections on  
tools, hoses and machines,  
from the simple nipple to  
the more complex safety  
quick-action coupling.

**Page 23-29**



Filters and maintenance  
units – from prefilters and  
microfilters through to  
activated carbon filters

**Page 30-31**



Aluminum pipe from  
20(3/4') to 158mm (6')



Range fitting from Push  
– to-fit, torque-to-grip,  
or bolt clamp assembly  
system

Consult the AIRNet entire  
range, including larger instal-  
lation solutions for heavy  
duty industrial systems for  
compressed air and vacuum.

# Preventing your money from vanishing into thin air: pipe systems of AIRnet!



## Maximum efficiency in pipe network

An efficient compressed air system must include a well designed pipe network because a correctly designed pipe system minimises the pressure lost from the line.

We would be glad to help you design your pipe system: We will design the perfect pipe system and appropriate connection points for you based on your individual requirements analysis for maximum efficiency – always with consideration for the long-term future development of your company.



## Optimisation of existing pipe systems

Leaks in the pipe system can generate high costs: In smaller industry and trade networks the average leak is 5%, in larger networks it may even be 10-15%\* (based on consumption during production times).

### Additional costs resulting from leaks\*

| ø leak<br>[mm] | Air loss<br>at 6 bar<br>[l/sec.] | Energy loss/year<br>at 8.760 h/a and 0,19 €/kWh<br>[kWh] [€] |           |
|----------------|----------------------------------|--------------------------------------------------------------|-----------|
| 1              | 1.24                             | 2,891                                                        | 549.29    |
| 3              | 11.14                            | 26,017                                                       | 4.943.23  |
| 5              | 30.95                            | 72,270                                                       | 13,731.30 |

\* Source: Bavarian Environmental Protection Agency (Hrsg.): „Protect the climate – Reduce costs: Guideline for efficient energy use in trade and industry“, 1st edition, Augsburg, 2004

# Calculate your pipeline diameter!

To plan a compressed air pipeline correctly, greatest importance should be attached to the dimensions and the materials selected because selecting small cross-sections and compressed air pipelines susceptible to corrosion can result in high pressure losses.

## The perfect pipe system in four steps:

### 1. Select the right pipe system according to your compressed air requirements

See the previous page for the four different materials available.

### 2. Choose a ring or stub line depending on your space requirements:

A stub line is suitable for individual compressed air outlets and for bridging small distances. If you intend to install several compressed air outlets on different sides of the room, a ring line is recommended because the same pressure is guaranteed at all connection points in the network.

Refer to the tables on the following page for:

- the dimensions of a **stub line**: the total nominal length of the line and the total compressed air requirements
- the dimensions of a **ring line**: half the nominal length of the line and the total compressed air requirements

### 3. Select the fittings required for your pipeline:

For flowing compressed air every fitting is a resistance, a substitute pipeline length must be included for each fitting accordingly. These lengths can be taken from the table on the following page. When choosing the fittings, consider the pipeline diameter already calculated in point 2.

Example:

|                                | Substitute pipe length | Nominal length |
|--------------------------------|------------------------|----------------|
| 2 angles $\varnothing$ 28 mm   | 1.5 m                  | 3.0 m          |
| 5 T-pieces $\varnothing$ 28 mm | 2.0 m                  | 10.0 m         |
| <b>Total</b>                   |                        | <b>13.4 m</b>  |

### 4. Calculate your pipeline diameter:

Add the nominal length of the pipeline from point 2 and the substitute length for fittings from point 3 to get the total length. With this length you can take the correct pipeline diameter for your personal requirements from the tables on the following pages.

## Design data for pipelines

### Substitute pipeline lengths for fittings

Working overpressure 7 bar,  $\Delta p$  (max.) 0.2 bar, flow speed (max.) 10 m/s

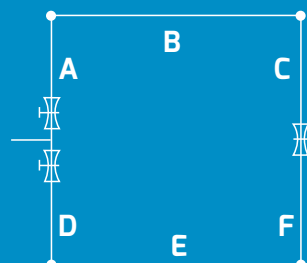
| Fittings                  | Comparable with | 3/8" | 1/2" | 3/4" | 1"  | 1 1/4" | 1 1/4" | 1 1/2" | 1 1/2" | 2"  | 2 1/2" |
|---------------------------|-----------------|------|------|------|-----|--------|--------|--------|--------|-----|--------|
| Dia.                      | inner           | 12   | 14   | 18   | 24  | 28     | 32     | 38     | 38     | 50  | 63     |
| Dia.                      | outer           | 15   | 18   | 22   | 28  | 32     | 40     | 40     | 50     | 63  | 80     |
| Ball valve                |                 | 0.1  | 0.2  | 0.3  | 0.4 | 0.5    | 0.5    | 0.6    | 0.6    | 0.7 | 0.8    |
| Angle 45°                 |                 | 0.4  | 0.5  | 0.7  | 0.7 | 1.0    | 1.0    | 1.3    | 1.3    | 1.8 | 2.0    |
| Angle 90°                 |                 | 0.7  | 1.0  | 1.3  | 1.5 | 2.0    | 2.0    | 2.5    | 2.5    | 3.5 | 4.0    |
| T-piece                   |                 | 0.8  | 1.0  | 1.5  | 2.0 | 2.5    | 2.5    | 3.0    | 3.0    | 4.0 | 5.0    |
| Reduction fitting 2d to d |                 | 0.4  | 0.5  | 0.5  | 0.6 | 0.7    | 0.7    | 0.8    | 0.8    | 1.0 | 1.5    |

### Compressed air distribution with closed ring line

For dimensioning the ring line, take half of the nominal length of the total ring line and the entire compressed air requirements into consideration:

Length A B C = 250 m, length D E F = 250 m

**Half** closed ring line length: 250 m



# Design data for pipelines

## Polyamide (PA) pipe/plug-in system 15-28 mm

Working overpressure 7 bar,  $\Delta p$  (max.) 0.2 bar, flow speed (max.) 10 m/s

| Compressed air flow rate | Length of the pipeline [m] |          |           |     |     |     |     |     |     |     |     |     |     |     |       |
|--------------------------|----------------------------|----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
|                          | N[l/s]                     | N[l/min] | N[m³/min] | 25  | 50  | 75  | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 750 | 1.000 |
| 1,7                      | 100                        | 0,1      | 15        | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 18  | 18  | 18  | 22    |
| 3,3                      | 200                        | 0,2      | 15        | 15  | 15  | 15  | 18  | 18  | 22  | 22  | 22  | 22  | 22  | 22  | 28    |
| 5,0                      | 300                        | 0,3      | 15        | 15  | 18  | 18  | 22  | 22  | 22  | 22  | 22  | 28  | 28  | 28  | 28    |
| 6,7                      | 400                        | 0,4      | 15        | 18  | 22  | 22  | 22  | 22  | 28  | 28  | 28  | 28  | 28  | 28  | >28   |
| 8,3                      | 500                        | 0,5      | 18        | 22  | 22  | 22  | 22  | 28  | 28  | 28  | 28  | 28  | 28  | >28 | >28   |
| 12,5                     | 750                        | 0,8      | 22        | 22  | 22  | 28  | 28  | 28  | 28  | >28 | >28 | >28 | >28 | >28 | >28   |
| 16,7                     | 1.000                      | 1,0      | 22        | 28  | 28  | 28  | 28  | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28   |
| 25,0                     | 1.500                      | 1,5      | 28        | 28  | 28  | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28   |
| 33,3                     | 2.000                      | 2,0      | 28        | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28   |

Diameter > 28 mm – see AIRnet PF/Black series

## Aluminium pipe/plug-in system 15-28 mm

Working overpressure 7 bar,  $\Delta p$  (max.) 0.2 bar, flow speed (max.) 10 m/s

| Compressed air flow rate | Length of the pipeline [m] |          |           |     |     |     |     |     |     |     |     |     |     |     |       |
|--------------------------|----------------------------|----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
|                          | N[l/s]                     | N[l/min] | N[m³/min] | 25  | 50  | 75  | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 750 | 1.000 |
| 1,7                      | 100                        | 0,1      | 15        | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 18  | 18  | 18  | 18    |
| 3,3                      | 200                        | 0,2      | 15        | 15  | 15  | 15  | 18  | 18  | 18  | 18  | 18  | 22  | 22  | 22  | 28    |
| 5,0                      | 300                        | 0,3      | 15        | 15  | 18  | 18  | 18  | 22  | 22  | 22  | 22  | 28  | 28  | 28  | 28    |
| 6,7                      | 400                        | 0,4      | 15        | 18  | 18  | 22  | 22  | 22  | 28  | 28  | 28  | 28  | 28  | 28  | >28   |
| 8,3                      | 500                        | 0,5      | 18        | 18  | 22  | 22  | 22  | 28  | 28  | 28  | 28  | 28  | 28  | >28 | >28   |
| 12,5                     | 750                        | 0,8      | 18        | 22  | 22  | 28  | 28  | 28  | 28  | 28  | >28 | >28 | >28 | >28 | >28   |
| 16,7                     | 1.000                      | 1,0      | 22        | 28  | 28  | 28  | 28  | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28   |
| 25,0                     | 1.500                      | 1,5      | 28        | 28  | 28  | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28   |
| 33,3                     | 2.000                      | 2,0      | 28        | 28  | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28   |
| 50,0                     | 3.000                      | 3,0      | 28        | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28 | >28   |

Diameter > 28 mm – see AIRnet PF/Black series

## Aluminium pipe/AIRnet 20-158 mm

Working overpressure 7 bar,  $\Delta p$  (max.) 0.2 bar, flow speed (max.) 10 m/s

| Compressed air flow rate | Length of the pipeline [m] |          |           |     |     |     |     |     |     |       |       |       |       |
|--------------------------|----------------------------|----------|-----------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
|                          | N[l/s]                     | N[l/min] | N[m³/min] | 50  | 100 | 150 | 300 | 500 | 750 | 1.000 | 1.300 | 1.600 | 2.000 |
|                          | 3                          | 200      | 0,2       | 20  | 20  | 20  | 20  | 20  | 20  | 20    | 20    | 20    | 25    |
|                          | 8                          | 500      | 0,5       | 20  | 20  | 20  | 25  | 25  | 25  | 40    | 40    | 40    | 40    |
|                          | 14                         | 800      | 0,8       | 20  | 20  | 25  | 25  | 40  | 40  | 40    | 40    | 40    | 40    |
|                          | 19                         | 1.200    | 1,2       | 20  | 25  | 25  | 40  | 40  | 40  | 40    | 40    | 40    | 40    |
|                          | 28                         | 1.700    | 1,7       | 25  | 25  | 40  | 40  | 40  | 40  | 40    | 50    | 50    | 50    |
|                          | 42                         | 2.500    | 2,5       | 25  | 40  | 40  | 40  | 40  | 50  | 50    | 50    | 50    | 63    |
|                          | 69                         | 4.000    | 4         | 40  | 40  | 40  | 50  | 50  | 63  | 63    | 63    | 63    | 63    |
|                          | 97                         | 6.000    | 6         | 40  | 40  | 50  | 50  | 63  | 63  | 63    | 80    | 80    | 80    |
|                          | 139                        | 8.000    | 8         | 40  | 50  | 50  | 63  | 63  | 80  | 80    | 80    | 80    | 100   |
|                          | 208                        | 13.000   | 13        | 50  | 63  | 63  | 63  | 80  | 80  | 100   | 100   | 100   | 100   |
|                          | 278                        | 17.000   | 17        | 50  | 63  | 63  | 80  | 80  | 100 | 100   | 100   | 100   | 158   |
|                          | 347                        | 21.000   | 21        | 63  | 63  | 80  | 80  | 100 | 100 | 100   | 158   | 158   | 158   |
|                          | 417                        | 25.000   | 25        | 63  | 80  | 80  | 100 | 100 | 100 | 158   | 158   | 158   | 158   |
|                          | 486                        | 29.000   | 29        | 63  | 80  | 80  | 100 | 100 | 158 | 158   | 158   | 158   | 158   |
|                          | 556                        | 33.000   | 33        | 63  | 80  | 80  | 100 | 158 | 158 | 158   | 158   | 158   | 158   |
|                          | 694                        | 42.000   | 42        | 80  | 80  | 100 | 158 | 158 | 158 | 158   | 158   | 158   | 158   |
|                          | 833                        | 50.000   | 50        | 80  | 100 | 100 | 158 | 158 | 158 | 158   | 158   | 158   | 158   |
|                          | 972                        | 58.000   | 58        | 80  | 100 | 100 | 158 | 158 | 158 | 158   | 158   | 200   | 200   |
| 1.111                    | 67.000                     | 67       | 100       | 100 | 158 | 158 | 158 | 158 | 158 | 200   | 200   | 200   |       |
| 1.250                    | 75.000                     | 75       | 100       | 158 | 158 | 158 | 158 | 158 | 200 | 200   | 200   | 200   |       |
| 1.389                    | 83.000                     | 83       | 100       | 158 | 158 | 158 | 158 | 158 | 200 | 200   | 200   | 200   |       |
| 1.528                    | 92.000                     | 92       | 100       | 158 | 158 | 158 | 158 | 200 | 200 | 200   | 200   | 200   |       |
| 1.667                    | 100.000                    | 100      | 100       | 158 | 158 | 158 | 158 | 200 | 200 | 200   | 200   | 200   |       |

Diameter > 158 mm not in supply range

# Socket system 15-28 mm

Laid, extended and modified in an instant



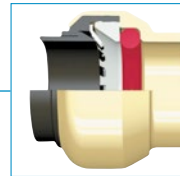
Huge time savings with simple, quick assembly of pipes and connectors



Flexible system for simple release and reconnection



Large number of stainless steel retaining claws hold the pipe securely in the plug connectors



Resistant O-ring ensures complete impermeability, even if the air contains oil



Example: Equal tee D22

For small and medium-sized workshops: Lay pipelines quickly and easily with a few hand movements with the AIRnet pipe system and extend or modify existing pipelines – the flexible plug-in system offers a wide selection of different connectors.



# Click it – the innovative pipe system

Hardly any other pipe system is changed as often as a compressed air network: No problem with the „Click it“ system: The connection can be detached easily with only a few hand movements and without causing damage to the pipe or connector. All parts can then be reused.



Cutting to length

## 1. Cut the pipe to the right size

Accurate to the millimetre using the Schneider airsystems pipe shears.



Deburring

## 2. Deburr and chamfer

So that everything runs smoothly and fits together, visually and otherwise.



Assembly

## 3. Join the pipes using plug connectors

When inserted as far as the stop, the pipe is completely airtight and the simple installation saves an enormous amount of time.



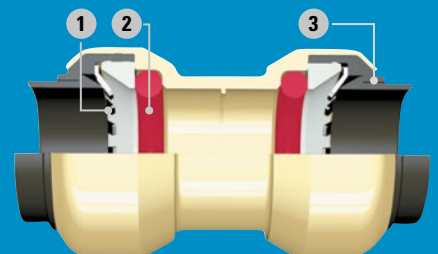
Disassembly

## 4. Disassembly with just a few hand movements

Press clip against connector – pull pipe out of connector – and you're done.

## The Click-it plug connectors

- 1 | The stainless steel retaining claw provides a force lock for retaining the pipe securely
- 2 | Oil-resistant O-ring for complete impermeability, even with oil containing compressed air
- 3 | Spacer washer for centring the pipe in the fitting exactly



## Polyamide pipes



- Polyamide (PA) for greater flexibility
- Pipe shears cut pipelines to length in a single cut

|   |                                                             |
|---|-------------------------------------------------------------|
| ▶ | Free of silicone                                            |
| ▶ | Black UV-resistant pipes, suitable for outdoor installation |

|  | Designation                         | Model               | Art. no.   | 15 | System/dia. |   |   | Length (m) | Packaging unit (pc.) |
|--|-------------------------------------|---------------------|------------|----|-------------|---|---|------------|----------------------|
|  | Rolled pipe, grey <sup>1)</sup>     | PA Pipe D15 25m     | 2813110000 | ■  |             |   |   | 25         | 1                    |
|  |                                     | PA Pipe D18 25m     | 2813210000 |    | ■           |   |   | 25         | 1                    |
|  |                                     | PA Pipe D22 25m     | 2813310000 |    |             | ■ |   | 25         | 1                    |
|  |                                     | PA Pipe D28 25m     | 2813410000 |    |             |   | ■ | 25         | 1                    |
|  | Lengths of pipe, grey <sup>2)</sup> | PA Pipe D15 5,7m    | 2813100000 | ■  |             |   |   | 6          | 1                    |
|  |                                     | PA Pipe D15 10m     | 2813120000 | ■  |             |   |   | 10         | 1                    |
|  |                                     | PA Pipe D18 5,7m    | 2813200000 |    | ■           |   |   | 6          | 1                    |
|  |                                     | PA Pipe D18 10m     | 2813220000 |    | ■           |   |   | 10         | 1                    |
|  |                                     | PA Pipe D22 5,7m    | 2813300000 |    |             | ■ |   | 6          | 1                    |
|  |                                     | PA Pipe D28 5,7m    | 2813400000 |    |             |   | ■ | 6          | 1                    |
|  | Rolled pipe, black <sup>1)</sup>    | PA UV Pipe D15 25m  | 2813130000 | ■  |             |   |   | 25         | 1                    |
|  |                                     | PA UV Pipe D18 25m  | 2813230000 |    | ■           |   |   | 25         | 1                    |
|  |                                     | PA UV Pipe D22 25m  | 2813330000 |    |             | ■ |   | 25         | 1                    |
|  |                                     | PA UV Pipe D22 5,7m | 2813320000 |    |             | ■ |   | 6          | 1                    |

1) Max. operating pressure for rolled pipe: 14 bar at -20 °C to ≤ +20 °C; 11 bar at +20 °C to ≤ +50 °C

2) Max. operating pressure for lengths of pipe: 16 bar at -20 °C to ≤ +20 °C; 11 bar at +20 °C to ≤ +50 °C

## Special aluminium alloy pipes



- Ideal as a main pipe as lightweight, stable and easy to lay using few pipe clips
- Low linear expansion ideal for large fluctuations in temperature
- Pipe protected by outer coating

|   |                                                    |
|---|----------------------------------------------------|
| ▶ | UV-resistant and suitable for outdoor installation |
| ▶ | Free of silicone                                   |

|  | Designation                         | Model            | Art. no.   | 15 | System/dia. |   |   | Length (m) | Packaging unit (pc.) |
|--|-------------------------------------|------------------|------------|----|-------------|---|---|------------|----------------------|
|  | Lengths of pipe, grey <sup>1)</sup> | AL Pipe D15 5,7m | 2813140000 | ■  |             |   |   | 6          | 2                    |
|  |                                     | AL Pipe D18 5,7m | 2813240000 |    | ■           |   |   | 6          | 1                    |
|  |                                     | AL Pipe D22 5,7m | 2813340000 |    |             | ■ |   | 6          | 1                    |
|  |                                     | AL Pipe D28 5,7m | 2813440000 |    |             |   | ■ | 6          | 1                    |

1) Max. operating pressure: 16 bar at -20 °C to ≤ +50 °C



# Socket system 15-28 mm

## Click-it brass plug connector

- Simple, quick assembly for huge time savings
- Flexible system for simple release and reconnection
- Resistant O-ring made from NBR ensures complete impermeability, even if the air contains oil
- Large number of stainless steel retaining claws hold the pipe securely in the plug connectors

- ▶ Material: Brass
- ▶ Free of silicone
- ▶ Max. operating pressure:  
16 bar at -20 °C to ≤ +50 °C



| Model                          | Art. no.   | System/dia. |    |    |    | Packaging unit (pc.) | Designation                                                                                                                                 |  |
|--------------------------------|------------|-------------|----|----|----|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                |            | 15          | 18 | 22 | 28 |                      |                                                                                                                                             |  |
| Nipple socket D15 1/2 ISO7R m  | 2813101780 | ■           |    |    |    | 5                    | Straight male push-in connexion                                                                                                             |  |
| Nipple socket D18 3/4 ISO7R m  | 2813211780 |             | ■  |    |    | 5                    |                                                                                                                                             |  |
| Nipple socket D18 1/2 ISO7R m  | 2813201780 |             | ■  |    |    | 5                    |                                                                                                                                             |  |
| Nipple socket D22 3/4 ISO7R m  | 2813311780 |             |    | ■  |    | 5                    |                                                                                                                                             |  |
| Nipple socket D22 1/2 ISO7R m  | 2813301780 |             |    | ■  |    | 5                    |                                                                                                                                             |  |
| Nipple socket D28 1 ISO7R m    | 2813421780 |             |    |    | ■  | 5                    | Straight female push-in connexion                                                                                                           |  |
| Nipple socket D15 1/2 ISO228 f | 2813101980 | ■           |    |    |    | 5                    |                                                                                                                                             |  |
| Nipple socket D18 1/2 ISO228 f | 2813201980 |             | ■  |    |    | 5                    |                                                                                                                                             |  |
| Nipple socket D18 3/4 ISO228 f | 2813211980 |             | ■  |    |    | 5                    |                                                                                                                                             |  |
| Nipple socket D22 1/2 ISO228 f | 2813301980 |             |    | ■  |    | 5                    |                                                                                                                                             |  |
| Nipple socket D22 3/4 ISO228 f | 2813311980 |             |    | ■  |    | 5                    | Straight push-in connexion                                                                                                                  |  |
| Nipple socket D28 1 ISO228 f   | 2813421980 |             |    |    | ■  | 5                    |                                                                                                                                             |  |
| Equal socket D15               | 2813100280 | ■           |    |    |    | 5                    |                                                                                                                                             |  |
| Equal socket D18               | 2813200280 |             | ■  |    |    | 5                    |                                                                                                                                             |  |
| Equal socket D22               | 2813300280 |             |    | ■  |    | 5                    |                                                                                                                                             |  |
| Equal socket D28               | 2813400280 |             |    |    | ■  | 5                    | Right-angle plug connector 90°                                                                                                              |  |
| 90 Deg Elbow D15               | 2813100380 | ■           |    |    |    | 5                    |                                                                                                                                             |  |
| 90 Deg Elbow D18               | 2813200380 |             | ■  |    |    | 5                    |                                                                                                                                             |  |
| 90 Deg Elbow D22               | 2813300380 |             |    | ■  |    | 5                    |                                                                                                                                             |  |
| 90 Deg Elbow D28               | 2813400380 |             |    |    | ■  | 5                    |                                                                                                                                             |  |
| 45 Deg Elbow D15               | 2813100480 | ■           |    |    |    | 2                    | Angle plug connector 45°                                                                                                                    |  |
| 45 Deg Elbow D18               | 2813200480 |             | ■  |    |    | 2                    |                                                                                                                                             |  |
| 45 Deg Elbow D22               | 2813300480 |             |    | ■  |    | 2                    |                                                                                                                                             |  |
| 45 Deg Elbow D28               | 2813400480 |             |    |    | ■  | 2                    |                                                                                                                                             |  |
| 90 Deg Elbow D15-1/2 ISO7R m   | 2813100381 | ■           |    |    |    | 2                    | Angle male push-in connexion                                                                                                                |  |
| 90 Deg Elbow D18-1/2 ISO7R m   | 2813200381 |             | ■  |    |    | 2                    |                                                                                                                                             |  |
| 90 Deg Elbow D22-3/4 ISO7R m   | 2813310381 |             |    | ■  |    | 2                    |                                                                                                                                             |  |
| 90 Deg Elbow D28-1 ISO7R m     | 2813420381 |             |    |    | ■  | 2                    |                                                                                                                                             |  |
| Equal tee D15                  | 2813100580 | ■           |    |    |    | 5                    | T-branch push-in connexion                                                                                                                  |  |
| Equal tee D18                  | 2813200580 |             | ■  |    |    | 5                    |                                                                                                                                             |  |
| Equal tee D22                  | 2813300580 |             |    | ■  |    | 5                    |                                                                                                                                             |  |
| Equal tee D28                  | 2813400580 |             |    |    | ■  | 5                    |                                                                                                                                             |  |
| Reduction tee D22 D15 D22      | 2813310780 | ■           |    |    |    | 2                    |                                                                                                                                             |  |
| Reduction tee D22 D18 D22      | 2813320780 |             | ■  |    |    | 2                    | Reducing push-in connexion                                                                                                                  |  |
| Reduction tee D28 D22 D22      | 2813430781 |             |    | ■  |    | 2                    |                                                                                                                                             |  |
| Reduction tee D28 D18 D28      | 2813420780 |             | ■  |    |    | 2                    |                                                                                                                                             |  |
| Reduction tee D28 D22 D28      | 2813430780 |             |    | ■  |    | 2                    |                                                                                                                                             |  |
| Pipe end adapter D22-D15       | 2813316280 | ■           |    |    |    | 2                    |                                                                                                                                             |  |
| Pipe end adapter D22-D18       | 2813326280 |             | ■  |    |    | 2                    | Sliding sleeve                                                                                                                              |  |
| Pipe end adapter D28-D18       | 2813426280 |             | ■  |    |    | 2                    |                                                                                                                                             |  |
| Pipe end adapter D28-D22       | 2813436280 |             |    | ■  |    | 2                    |                                                                                                                                             |  |
| Sliding equal socket D15       | 2813100281 | ■           |    |    |    | 2                    |                                                                                                                                             |  |
| Sliding equal socket D18       | 2813200281 |             | ■  |    |    | 2                    |                                                                                                                                             |  |
| Sliding equal socket D22       | 2813300281 |             |    | ■  |    | 2                    | Blind cap                                                                                                                                   |  |
| Sliding equal socket D28       | 2813400281 |             |    |    | ■  | 2                    |                                                                                                                                             |  |
| End cap D15                    | 2813100680 | ■           |    |    |    | 2                    |                                                                                                                                             |  |
| End cap D18                    | 2813200680 |             | ■  |    |    | 2                    |                                                                                                                                             |  |
| End cap D22                    | 2813300680 |             |    | ■  |    | 2                    |                                                                                                                                             |  |
| End cap D28                    | 2813400680 |             |    |    | ■  | 2                    | Connecting adapter<br><i>Please note: it is mandatory to insert a notch into the connecting piece with the all-purpose tool 2813024000!</i> |  |
| Threaded ad. D15-1/2 ISO7R m   | 2813101300 | ■           |    |    |    | 2                    |                                                                                                                                             |  |
| Threaded ad. D18-1/2 ISO7R m   | 2813201300 |             | ■  |    |    | 2                    |                                                                                                                                             |  |
| Threaded ad. D18-3/4 ISO7R m   | 2813211300 |             | ■  |    |    | 2                    |                                                                                                                                             |  |
| Threaded ad. D22-1/2 ISO7R m   | 2813301300 |             |    | ■  |    | 2                    |                                                                                                                                             |  |
| Threaded ad. D22-3/4 ISO7R m   | 2813311300 |             |    | ■  |    | 2                    |                                                                                                                                             |  |
| Threaded ad. D28-1 ISO7R m     | 2813421300 |             |    |    | ■  | 2                    |                                                                                                                                             |  |

## Air shut-off cock



- Simple shut-off function ensures a high degree of energy efficiency and safety of the supply network
- For shutting off individual areas of a stub, ring or outlet line
- Plug connector not preassembled

▶ NBR seal



| Model                        | Art. no.   | System/dia. |    |    |    |
|------------------------------|------------|-------------|----|----|----|
|                              |            | 15          | 18 | 22 | 28 |
| Ball valve D15 <sup>1)</sup> | 2813105180 | ■           |    |    |    |
| Ball valve D18 <sup>1)</sup> | 2813205180 |             | ■  |    |    |
| Ball valve D22 <sup>1)</sup> | 2813305180 |             |    | ■  |    |
| Ball valve D28 <sup>1)</sup> | 2813405180 |             |    |    | ■  |

1) Max. operating pressure: 16 bar at -20 °C to ≤ +50 °C

## Assembly aids

|  | Designation        | Model                       | Art. no.   | System/dia. |    |    |    | Support thickness (mm) | Packaging unit (pc.) |
|--|--------------------|-----------------------------|------------|-------------|----|----|----|------------------------|----------------------|
|  |                    |                             |            | 15          | 18 | 22 | 28 |                        |                      |
|  | Pipe clips         | Pipe clip D15               | 2813102200 | ■           |    |    |    |                        | 25                   |
|  |                    | Pipe clip D18               | 2813202200 |             | ■  |    |    |                        | 25                   |
|  |                    | Pipe clip D22               | 2813302200 |             |    | ■  |    |                        | 25                   |
|  |                    | Pipe clip D28               | 2813402200 |             |    |    | ■  |                        | 25                   |
|  | Pipe clamps        | Pipe clamp D15-D18          | 2813122200 | ■           | ■  |    |    |                        | 25                   |
|  |                    | Pipe clamp D22              | 2813332200 |             |    | ■  |    |                        | 25                   |
|  |                    | Pipe clamp D28              | 2813442200 |             |    |    | ■  |                        | 25                   |
|  |                    | Hanger bolt for pipe clamps | 2813002200 |             |    |    |    |                        | 25                   |
|  | Disassembly pliers | Disassembly pliers D15      | 2813102800 | ■           |    |    |    |                        | 1                    |
|  |                    | Disassembly pliers D18      | 2813202800 |             | ■  |    |    |                        | 1                    |
|  |                    | Disassembly pliers D22      | 2813302800 |             |    | ■  |    |                        | 1                    |
|  |                    | Disassembly pliers D28      | 2813402800 |             |    |    | ■  |                        | 1                    |
|  | Disassembly clip   | Disassembly clip D15        | 2813112800 | ■           |    |    |    |                        | 5                    |
|  |                    | Disassembly clip D18        | 2813222800 |             | ■  |    |    |                        | 5                    |
|  |                    | Disassembly clip D22        | 2813332800 |             |    | ■  |    |                        | 5                    |
|  |                    | Disassembly clip D28        | 2813442800 |             |    |    | ■  |                        | 5                    |

# Socket system 15-28 mm

## Marking and deburring tool

- For chamfering and deburring aluminium pipes, marking insertion depths and notching indentations on hard surfaces (e.g. V4A pipelines)

| Model                      | Art. no.   |
|----------------------------|------------|
| Marking and deburring tool | 2813024000 |



## Shear

- For cutting PA pipes, max. dia. 28 mm (with reversible blade)
- With impact function

| Model                | Art. no.   |
|----------------------|------------|
| Shear                | 2813004000 |
| 2 spare blades shear | 2813014000 |



## Pipe cutter

- For aluminium and stainless steel pipes, dia. 15-32 mm

| Model                         | Art. no.   |
|-------------------------------|------------|
| Pipe Cutter D32               | 2813034000 |
| Pipe Cutter D32 cutting wheel | 2813044000 |



## Deburring tool

- For deburring plastic, aluminium and stainless steel pipes
- For inner and outer diameters up to 35 mm

| Model              | Art. no.   |
|--------------------|------------|
| Deburring tool D35 | 2813054000 |



## Deburring blade

- For deburring the inner diameter of aluminium pipes

| Model           | Art. no.   |
|-----------------|------------|
| Deburring blade | 2813064000 |



## Anti-friction agent

- For easy installation of compressed air pipes
- Free of silicone

| Model               | Art. no.   |
|---------------------|------------|
| Anti-friction agent | 2813074000 |



# Pipe sockets 15-22 mm

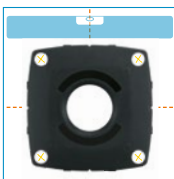
Innovative and flexible –  
for greater economic efficiency



Extremely durable  
body made of impact-  
resistant, glass-fibre  
reinforced polyamide



Very flexible, can be used  
as an input block, through  
block, distribution block or  
dead-end distribution block



Uncomplicated assembly  
because the screens of the  
Basic sockets also serve as  
drilling templates and spirit  
level supports



Great flexibility with top  
sockets available in three  
different versions



Protection of lines as the air  
outlet is directed downwards  
to avoid bending hoses

Example: Socket Box 2x1/2 and Socket Box Top 4x1/2

Install perfect compressed air outlets in the pipe system for each  
workplace – versatile pipe sockets are fully compatible with the  
Schneider airsystems pipe system and various attachment parts,  
and can be extended by fitting additional outlet components.

# A flexible system with unimagined possibilities



## Model overview:



| Model                      | Art. no.   | Outlets | Thread    |
|----------------------------|------------|---------|-----------|
| Socket Box 2x1/2           | 2813002580 | 2       | 1/2"      |
| Socket Box 3x1/2           | 2813002581 | 3       | 1/2"      |
| Socket Box 4x1/2           | 2813002582 | 4       | 1/2"      |
| Socket Box 6x1/2           | 2813002583 | 6       | 1/2"      |
| Socket Box Alu 4x3/4 - 1/2 | 2813002505 | 4/1     | 1" / 1/2" |
| Socket Box Top 2x1/2       | 2813002680 | 2       | 1/2"      |
| Socket Box Top 3x1/2       | 2813002681 | 3       | 1/2"      |
| Socket Box Top 4x1/2       | 2813002682 | 4       | 1/2"      |

Five basis sockets with two to six air outlets can be combined with three top sockets with two to four outlets.

If one basis socket is initially sufficient, the screen included in the delivery is clipped onto it. If your socket requirements increase, the system can be extended at any time by adding a top socket without having to disassemble the basis socket.

Further pipe sockets can be connected without any problem at the side via a short pipeline or a double nipple. If an outlet is no longer needed, simply lock it with a locking screw.

Midi System for restricted spatial conditions. With TÜV certificate.

## Midi pipe sockets

### Assemble the pipe sockets exactly as you need them.

Basic sockets are available for each system. These can then be individually fitted with the required outflows and elements.

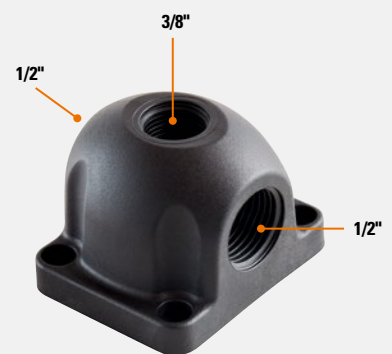
This section explains the designation of the inflows and outflows for the Midi pipe sockets:



Socket Box Mini 3/8 – 1/2



Socket Box Mini 2x3/8 – 1/2



Socket Box Mini 3/8 – 2x1/2

### Midi pipe sockets



- Extremely versatile, with input blocks, through blocks and dead-end distribution blocks

- For wall and ceiling mounting
- Max. operating pressure: 16 bar at -20 °C to ≤ +50 °C

|                                                                                     | Designation                      | Model                       | Art. no.   |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------------|------------|
|  | Midi dead-end distribution block | Socket Box Mini 3/8 - 1/2   | 2813002700 |
|                                                                                     |                                  | Socket Box Mini 2x3/8 - 1/2 | 2813002701 |
|                                                                                     |                                  | Socket Box Mini 3/8 - 2x1/2 | 2813002702 |



# Pipe sockets

## Basic pipe sockets

- Basic sockets with integrated plug connectors for simple connection of the pipeline

|   |                                                                      |
|---|----------------------------------------------------------------------|
| ▶ | For wall and ceiling mounting                                        |
| ▶ | Including removable screen, which can be used as a drilling template |
| ▶ | Max. operating pressure:<br>16 bar at -20 °C to ≤ +50 °C             |



| Model                      | Art. no.   | Designation                                                                                         |  |
|----------------------------|------------|-----------------------------------------------------------------------------------------------------|--|
| Socket Box 2x1/2           | 2813002580 | Basic pipe socket G1/2"i<br>dimensions without screen LxWxH: 85x85x45 mm,<br>with screen 48 mm high |  |
| Socket Box 3x1/2           | 2813002581 |                                                                                                     |  |
| Socket Box 4x1/2           | 2813002582 |                                                                                                     |  |
| Socket Box 6x1/2           | 2813002583 |                                                                                                     |  |
| Socket Box Alu 4x3/4 – 1/2 | 2813002505 | Basic pipe socket G1"<br>Dimensions LxWxH: 90x90x53 mm                                              |  |

## Top pipe sockets

- Exclusively for fitting to a Basic socket

|   |                                                          |
|---|----------------------------------------------------------|
| ▶ | Top socket including fastening material and sealing      |
| ▶ | Max. operating pressure:<br>16 bar at -20 °C to ≤ +50 °C |



| Model                | Art. no.   | Designation           |  |
|----------------------|------------|-----------------------|--|
| Socket Box Top 2x1/2 | 2813002680 | Pipe socket Top G1/2" |  |
| Socket Box Top 3x1/2 | 2813002681 |                       |  |
| Socket Box Top 4x1/2 | 2813002682 |                       |  |
|                      |            |                       |  |

# Hoses and workshop equipment

For a perfectly organised workplace



For private use and professional workshop applications – hard-wearing fabric hoses, flexible Super-Flex hoses or durable polyurethane hoses for every application. For optimal workplace organisation and ergonomic work – hose rewinders, power and air supply units and tractions.

# Air hoses

## PVC hose with fabric inlay

- Particularly resistant against compressed air containing oil



Max. operating pressure 15 bar at 20 °C

| Model                         | Art. no.   | With quick-action coupling and plug nipple | Max. pressure (bar) | Outer dia. (mm) | Inside dia. (mm) | Length (m) |
|-------------------------------|------------|--------------------------------------------|---------------------|-----------------|------------------|------------|
| H PVC-QRC-E-15bar 11-6/5m     | 2813930000 | EURO profile                               | 15                  | 11              | 6                | 5          |
| H PVC-QRC-U-15bar 11-6/5m     | 2813930005 | UNIVERSAL profile                          | 15                  | 11              | 6                | 5          |
| H PVC-QRC-E-15bar 11-6/10m    | 2813930001 | EURO profile                               | 15                  | 11              | 6                | 10         |
| H PVC-QRC-U-15bar 11-6/10m    | 2813930006 | UNIVERSAL profile                          | 15                  | 11              | 6                | 10         |
| H PVC-15bar 11-6/25m          | 2813930015 |                                            | 15                  | 11              | 6                | 25         |
| H PVC-15bar 11-6/50m          | 2813930016 |                                            | 15                  | 11              | 6                | 50         |
| H PVC-QRC-E-15bar 15-9/5m     | 2813930002 | EURO profile                               | 15                  | 15              | 9                | 5          |
| H PVC-QRC-U-15bar 15-9/5m     | 2813930007 | UNIVERSAL profile                          | 15                  | 15              | 9                | 5          |
| H PVC-QRC-E-15bar 15-9/10m    | 2813930003 | EURO profile                               | 15                  | 15              | 9                | 10         |
| H PVC-QRC-U-15bar 15-9/10m    | 2813930008 | UNIVERSAL profile                          | 15                  | 15              | 9                | 10         |
| H PVC-15bar 15-9/25m          | 2813930017 |                                            | 15                  | 15              | 9                | 25         |
| H PVC-15bar 15-9/50m          | 2813930018 |                                            | 15                  | 15              | 9                | 50         |
| H PVC-QRC-E-15bar 18-13/10m   | 2813930004 | EURO profile                               | 15                  | 18              | 13               | 10         |
| H PVC-QRC-U-15bar 18-13/10m   | 2813930009 | UNIVERSAL profile                          | 15                  | 18              | 13               | 10         |
| H PVC-15bar 18-13/25m         | 2813930019 |                                            | 15                  | 18              | 13               | 25         |
| H PVC-15bar 18-13/50m         | 2813930020 |                                            | 15                  | 18              | 13               | 50         |
| H PVC-QRC-E-OR-15bar 15-9/10m | 2813930010 | EURO profile                               | 15                  | 15              | 9                | 10         |
| H PVC-OR-15bar 15-9/25m       | 2813930021 |                                            | 15                  | 15              | 9                | 25         |



Fig. 2813930003



Fig. 2813930010 „oil-resistant“

## Super-Flex hose

- Reinforced external material for greater resistance to ageing and protection against compressed air containing oil
- Extremely flexible, even at low temperatures



PVC hose with fabric inlay



Max. operating pressure 15 bar at 20 °C

| Model                          | Art. no.   | With quick-action coupling and plug nipple | Max. pressure (bar) | Outer dia. (mm) | Inside dia. (mm) | Length (m) |
|--------------------------------|------------|--------------------------------------------|---------------------|-----------------|------------------|------------|
| H PVC-QRC-E-SF-15bar 11-6/5m   | 2813930011 | EURO profile                               | 15                  | 11              | 6,3              | 5          |
| H PVC-QRC-E-SF-15bar 11-6/10m  | 2813930012 | EURO profile                               | 15                  | 11              | 6,3              | 10         |
| H PVC-SF-15bar 11-6/25m        | 2813930022 |                                            | 15                  | 11              | 6,3              | 25         |
| H PVC-SF-15bar 11-6/50m        | 2813930023 |                                            | 15                  | 11              | 6,3              | 50         |
| H PVC-QRC-E-SF-15bar 15-10/5m  | 2813930013 | EURO profile                               | 15                  | 15,5            | 10               | 5          |
| H PVC-QRC-E-SF-15bar 15-10/10m | 2813930014 | EURO profile                               | 15                  | 15,5            | 10               | 10         |
| H PVC-SF-15bar 15-10/25m       | 2813930024 |                                            | 15                  | 15,5            | 10               | 25         |
| H PVC-SF-15bar 15-10/50m       | 2813930025 |                                            | 15                  | 15,5            | 10               | 50         |
| H PVC-SF-15bar 19-13/25m       | 2813930026 |                                            | 15                  | 19              | 12,7             | 25         |
| H PVC-SF-15bar 19-13/50m       | 2813930027 |                                            | 15                  | 19              | 12,7             | 50         |
| H PVC-SF-15bar 27-19/25m       | 2813930028 |                                            | 15                  | 27              | 19               | 25         |
| H PVC-SF-15bar 27-19/50m       | 2813930029 |                                            | 15                  | 27              | 19               | 50         |



Fig. 2813930014



Fig. 2813930023

## High-pressure hose version

- High-pressure version for pressure up to 40 bar
- Particularly suitable for connecting pneumatic tools outdoors
- Extremely flexible, even at low temperatures
- For temperature range from -15 °C to +60 °C



PVC hose with reinforced polyester threads, smooth hose core and UV-resistant outer lining

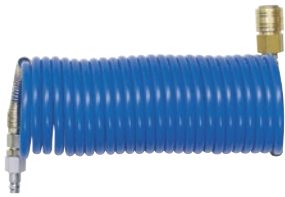


Max. operating pressure 40 bar at 20 °C

| Model                    | Art. no.   | Max. pressure (bar) | Outer dia. (mm) | Inside dia. (mm) | Length (m) |
|--------------------------|------------|---------------------|-----------------|------------------|------------|
| H PVC-SF-40bar 16-9/50m  | 2813930030 | 40                  | 16              | 9                | 50         |
| H PVC-SF-40bar 21-13/50m | 2813930031 | 40                  | 21              | 13               | 50         |



## Polyamide spiral hose



- With rotary quick-action coupling (only QRC) and plug nipple, ready for immediate use
- Bend protection at the spiral hose ends for an extended service life and constant air flow
- Particularly suitable for tractions due to high reset force

► Connections with swivel joints (except 2813940000)

| Model                     | Art. no.   | With quick-action coupling and plug nipple | Max. pressure (bar) | Outer dia. (mm) | Inside dia. (mm) | Working length (m) | Stretched length (m) |
|---------------------------|------------|--------------------------------------------|---------------------|-----------------|------------------|--------------------|----------------------|
| SH PA-QRC-E-8bar 8-6/5m   | 2813940000 | EURO profile                               | 8                   | 8               | 6                | 2,5                | 5                    |
| SH PA-QRC-E-8bar 8-6/7,5m | 2813940001 | EURO profile                               | 8                   | 8               | 6                | 4                  | 7,5                  |
| SH PA-QRC-E-8bar 8-6/15m  | 2813940002 | EURO profile                               | 8                   | 8               | 6                | 8                  | 15                   |
| SH PA-QRC-U-8bar 8-6/5m   | 2813940004 | UNIVERSAL profile                          | 8                   | 8               | 6                | 2,5                | 5                    |
| SH PA-QRC-U-8bar 8-6/10m  | 2813940005 | UNIVERSAL profile                          | 8                   | 8               | 6                | 6                  | 7,5                  |
| SH PA-QRC-U-8bar 8-6/15m  | 2813940006 | UNIVERSAL profile                          | 8                   | 8               | 6                | 8                  | 15                   |
| SH PA-BJ-8bar 8-6/5m      | 2813940007 | BAYONET profile                            | 8                   | 8               | 6                | 2,5                | 5                    |
| SH PA-BJ-8bar 8-6/10m     | 2813940008 | BAYONET profile                            | 8                   | 8               | 6                | 6                  | 7,5                  |
| SH PA-BJ-8bar 8-6/15m     | 2813940009 | BAYONET profile                            | 8                   | 8               | 6                | 8                  | 15                   |
| SH PA-QRC-E-8bar 10-8/10m | 2813940003 | EURO profile                               | 8                   | 10              | 8                | 6                  | 10                   |

## Polyurethane spiral hose



- With rotary quick-action coupling (only SSL-5K) and plug nipple, ready for immediate use
- Bend protection at the spiral hose ends for an extended service life and constant air flow
- Small winding diameter saves space
- Particularly abrasion-resistant and very resilient
- No remaining cross-section reductions upon bending

► Connections with swivel joints

| Model                         | Art. no.   | With quick-action coupling and plug nipple | Max. pressure (bar) | Outer dia. (mm) | Inside dia. (mm) | Working length (m) | Stretched length (m) |
|-------------------------------|------------|--------------------------------------------|---------------------|-----------------|------------------|--------------------|----------------------|
| SH PUR-QRC-E-8bar 10-6,5/6m   | 2813940010 | EURO profile                               | 8                   | 10              | 6,5              | 4,8                | 6                    |
| SH PUR-QRC-E-8bar 10-6,5/7,5m | 2813940011 | EURO profile                               | 8                   | 10              | 6,5              | 6                  | 7,5                  |
| SH PUR-8bar 10-6,5/7,5m       | 2813940014 |                                            | 8                   | 10              | 6,5              | 6                  | 7,5                  |
| SH PUR-QRC-E-8bar 12-8/6m     | 2813940012 | EURO profile                               | 8                   | 12              | 8                | 4,8                | 6                    |
| SH PUR-QRC-E-8bar 12-8/7,5m   | 2813940013 | EURO profile                               | 8                   | 12              | 8                | 6                  | 7,5                  |
| SH PUR-8bar 12-8/7,5m         | 2813940015 |                                            | 8                   | 12              | 8                | 6                  | 7,5                  |
| SH PUR-8bar 16-10/5m          | 2813940016 |                                            | 8                   | 16              | 10               | 2,5                | 5                    |
| SH PUR-8bar 16-10/10m         | 2813940017 |                                            | 8                   | 16              | 10               | 6                  | 10                   |

# Workshop equipment

## Traction

- For all types of portable devices and tools
- Fully fitted with safety cable, terminal block and snap hook
- High degree of flexibility because the spring tension on the housing can be used to set and adjust the required load capacity

- ▶ Compact, with robust aluminium housing
- ▶ Rubber buffer at the end

| Model            | Art. no.   | Carrying power (kg) | Stroke length (m) | Weight (kg) |
|------------------|------------|---------------------|-------------------|-------------|
| EQ SST-0,4-1,0kg | 2813960000 | 1                   | 1.6               | 0.63        |
| EQ SST-1,0-2,0kg | 2813960001 | 2                   | 1.6               | 0.67        |
| EQ SST-2,0-3,0kg | 2813960002 | 3                   | 1.6               | 0.79        |
| EQ SST-2,0-4,0kg | 2813960003 | 4                   | 2.5               | 2.85        |
| EQ SST-4,0-6,0kg | 2813960004 | 6                   | 2.5               | 3           |
| EQ SST-6,0-8,0kg | 2813960005 | 8                   | 2.5               | 3.1         |



## Hose rewriter, automatic

- With durable rolling mechanism for daily use in trade and the industry
- Fully fitted with quick-action coupling and long connection hose with plug nipple, ready to connect
- Flexible use with large swivel range
- Wall mounting

- ▶ Abrasion-resistant, flexible air hose with antikink spring and hose locking device
- ▶ Locking function can be deactivated
- ▶ Plastic housing

| Model                          | Art. no.   | Max. pressure (bar) | Outer dia. (mm) | Inside dia. (mm) | Extendable length (m) | Weight (kg) |
|--------------------------------|------------|---------------------|-----------------|------------------|-----------------------|-------------|
| HR PVC-QRC-U-A-15bar 12-8/10m  | 2813950004 | 15                  | 12              | 8                | 10                    | 4           |
| HR PVC-QRC-U-A-15bar 12-8/15m  | 2813950005 | 15                  | 12              | 8                | 15                    | 7.3         |
| HR PVC-QRC-U-A-15bar 14-10/15m | 2813950006 | 15                  | 14              | 10               | 15                    | 8.8         |
| HR PVC-QRC-U-A-15bar 18-13/15m | 2813950007 | 15                  | 17.5            | 12.5             | 15                    | 10.5        |



## Accessories for hose rewriter, automatic

- More safety by slowing down the rewinding hose

| Model         | Art. no.   | Accessories                                     |
|---------------|------------|-------------------------------------------------|
| HR B 18-13/15 | 2813950008 | for HR PVC-QRC-U-A-15bar 18-13/15m (2813950007) |



## Hose rewriter, automatic



- Fully fitted with quick-action coupling and long connection hose with plug nipple, ready to connect
- Flexible use with large swivel range greater than 180°
- For wall and ceiling mounting

|   |                                                                                    |
|---|------------------------------------------------------------------------------------|
| ▶ | With robust metal housing                                                          |
| ▶ | With protected quick-action coupling                                               |
| ▶ | Abrasion-resistant, flexible air hose with antikink spring and hose locking device |

| Model                         | Art. no.   | Max. pressure (bar) | Outer dia. (mm) | Inside dia. (mm) | Extendable length (m) | Weight (kg) |
|-------------------------------|------------|---------------------|-----------------|------------------|-----------------------|-------------|
| HR PVC-QRC-U-A-15bar 12-8/9m  | 2813950002 | 15                  | 12              | 8                | 9                     | 5           |
| HR PVC-QRC-U-A-15bar 12-8/15m | 2813950003 | 15                  | 12              | 8                | 15                    | 6           |

## Hose rewriter, manual



- Axial connection - this way the hose can also be wound and unwound during operation
- Flexible PVC hose with fabric inlay

|   |                                       |
|---|---------------------------------------|
| ▶ | Shock-resistant plastic housing       |
| ▶ | Large work radius thanks to 20 m hose |

| Model                         | Art. no.   | Max. pressure (bar) | Outer dia. (mm) | Inside dia. (mm) | Extendable length (m) | Weight (kg) |
|-------------------------------|------------|---------------------|-----------------|------------------|-----------------------|-------------|
| HR PVC-QRC-U-M-15bar 15-9/20m | 2813950000 | 15                  | 15              | 9                | 20                    | 3.9         |



## Power and air supply unit

- Galvanised suspension chain relieves the connection hose and connection cable
- Electric safety device - the thermal fuse automatically switches off in the event of overheating
- Robust housing - splashproof and dustproof acc. to IP 44

|   |                                                                    |
|---|--------------------------------------------------------------------|
| ▶ | Safety couplings prevent the air hose from ejecting during release |
| ▶ | Connection option - every 3 shockproof sockets on front and back   |



| Model                                 | Art. no.   | Schuko power outlets 16A/230V (pc.) | Cekon power outlets 16A/400V (pc.) | Compressed air connections | Suspension chain length (m) | Connection hose internal diameter (mm) | Weight (kg) |
|---------------------------------------|------------|-------------------------------------|------------------------------------|----------------------------|-----------------------------|----------------------------------------|-------------|
| EQ EB-PVC-2QRC-SF-15bar-6*230V        | 2813960009 | 6                                   |                                    | 2                          | 2                           | 9                                      | 2.9         |
| EQ EB-PVC-2QRC-SF-15bar-6*230V-1*400V | 2813960010 | 6                                   | 1                                  | 2                          | 2                           | 9                                      | 2.9         |

## Power and air supply unit

- Galvanised suspension chain relieves the connection hose and connection cable
- Robust housing - splashproof and dustproof acc. to IP 44
- Ready to connect thanks to connected electric cable with plug and air hose (length: 3 m) with plug nipple

|   |                                                                    |
|---|--------------------------------------------------------------------|
| ▶ | Safety couplings prevent the air hose from ejecting during release |
| ▶ | Connection option - every 3 shockproof sockets                     |



| Model                         | Art. no.   | Schuko power outlets 16A/230V (pc.) | Compressed air connections | Suspension chain length (m) | Connection hose internal diameter (mm) | Weight (kg) |
|-------------------------------|------------|-------------------------------------|----------------------------|-----------------------------|----------------------------------------|-------------|
| EQ EB-PVC-QRC-SF-12bar-3*230V | 2813960011 | 3                                   | 1                          | 3                           | 9                                      | 2.0         |

# Connecting & joining technology

User-friendly and safe



For all connections on tools, hoses and machines –  
from the simple nipple to the more  
complex safety quick-action coupling.

# Connecting and joining technology

## Steel safety quick-release couplings

- Safe working because the hose is not ejected when disconnected (whiplash effect), DIN EN ISO 4414 and DIN EN 983
- Hardened galvanised steel for an extended service life
- Low coupling force for easy coupling

|   |                                                                                 |
|---|---------------------------------------------------------------------------------|
| ▶ | Eurostandard profile with nominal width of 7.6 for extremely high air flow rate |
| ▶ | Max. operating pressure 16 bar                                                  |
| ▶ | Free of silicone                                                                |



| Model            | Art. no.   | Packaging unit (pc.) | Designation                                         |  |
|------------------|------------|----------------------|-----------------------------------------------------|--|
| C QRC-SF-E-1/4"m | 2813910018 | 5                    | Safety quick-release couplings with external thread |  |
| C QRC-SF-E-3/8"m | 2813910019 | 5                    |                                                     |  |
| C QRC-SF-E-1/2"m | 2813910020 | 5                    |                                                     |  |
| C QRC-SF-E-1/4"f | 2813910021 | 5                    | Safety quick-release couplings with internal thread |  |
| C QRC-SF-E-3/8"f | 2813910022 | 5                    |                                                     |  |
| C QRC-SF-E-1/2"f | 2813910023 | 5                    |                                                     |  |
| C QRC-SF-E-6mm   | 2813910024 | 5                    | Safety quick-release couplings hose nozzle          |  |
| C QRC-SF-E-9mm   | 2813910025 | 5                    |                                                     |  |
| C QRC-SF-E-13mm  | 2813910026 | 5                    |                                                     |  |

Minimum order quantity for specialist dealers: 5 units

**Tip** >> Only use steel quick-release couplings in conjunction with hardened steel plug nipples

## Steel quick-release couplings with external thread

- Hardened galvanised steel for an extended service life
- Low coupling force for easy coupling

|   |                                                                                 |
|---|---------------------------------------------------------------------------------|
| ▶ | Eurostandard profile with nominal width of 7.6 for extremely high air flow rate |
| ▶ | Max. operating pressure 16 bar                                                  |
| ▶ | Free of silicone                                                                |



| Model           | Art. no.   | Packaging unit (pc.) | Designation                                  |  |
|-----------------|------------|----------------------|----------------------------------------------|--|
| C QRC-S-E-1/4"m | 2813910009 | 5                    | Quick-release couplings with external thread |  |
| C QRC-S-E-3/8"m | 2813910010 | 5                    |                                              |  |
| C QRC-S-E-1/2"m | 2813910011 | 5                    |                                              |  |
| C QRC-S-E-1/4"f | 2813910012 | 5                    | Quick-release couplings with internal thread |  |
| C QRC-S-E-3/8"f | 2813910013 | 5                    |                                              |  |
| C QRC-S-E-1/2"f | 2813910014 | 5                    |                                              |  |
| C QRC-S-E-6mm   | 2813910015 | 5                    | Quick-release couplings with hose nozzle     |  |
| C QRC-S-E-9mm   | 2813910016 | 5                    |                                              |  |
| C QRC-S-E-13mm  | 2813910017 | 5                    |                                              |  |

Minimum order quantity for specialist dealers: 5 units

**Tip** >> Only use steel quick-release couplings in conjunction with hardened steel plug nipples

## Steel plug nipple



- Specially designed for use with steel quick-release couplings
- Hardened galvanised steel for an extended service life

▶ Eurostandard profile with nominal width of 7.6 for extremely high air flow rate

|                                                                                   | Designation                            | Model          | Art. no.   | Packaging unit (pc.) |
|-----------------------------------------------------------------------------------|----------------------------------------|----------------|------------|----------------------|
|  | Steel plug nipple with external thread | C PN-S-E-1/4"m | 2813910000 | 5                    |
|                                                                                   |                                        | C PN-S-E-3/8"m | 2813910001 | 5                    |
|                                                                                   |                                        | C PN-S-E-1/2"m | 2813910002 | 5                    |
|  | Steel plug nipple with internal thread | C PN-S-E-1/4"f | 2813910003 | 5                    |
|                                                                                   |                                        | C PN-S-E-3/8"f | 2813910004 | 5                    |
|                                                                                   |                                        | C PN-S-E-1/2"f | 2813910005 | 5                    |
|  | Steel plug nipple with hose nozzle     | C PN-S-E-6mm   | 2813910006 | 5                    |
|                                                                                   |                                        | C PN-S-E-9mm   | 2813910007 | 5                    |
|                                                                                   |                                        | C PN-S-E-13mm  | 2813910008 | 5                    |

Minimum order quantity for specialist dealers: 5 units

## Brass quick-release couplings Euro profile



▶ European standard profile

▶ NW 7.2

▶ Material: Brass

|                                                                                     | Designation                                  | Model          | Art. no.   | Packaging unit (pc.) |
|-------------------------------------------------------------------------------------|----------------------------------------------|----------------|------------|----------------------|
|  | Quick-release couplings with external thread | C QRC-E-1/4"m  | 2813910027 | 10                   |
|                                                                                     |                                              | C QRC-E-3/8"m  | 2813910028 | 10                   |
|                                                                                     |                                              | C QRC-E-1/2"m  | 2813910029 | 10                   |
|  | Quick-release couplings with internal thread | C QRC-E-1/4"f  | 2813910030 | 10                   |
|                                                                                     |                                              | C QRC-E-3/8"f  | 2813910031 | 10                   |
|                                                                                     |                                              | C QRC-E-1/2"f  | 2813910032 | 10                   |
|  | Quick-release couplings with hose nozzle     | C QRC-E-6mm    | 2813910033 | 10                   |
|                                                                                     |                                              | C QRC-E-9mm    | 2813910034 | 10                   |
|                                                                                     |                                              | C QRC-E-13mm   | 2813910035 | 10                   |
|  | Distributor with quick-release couplings     | C 2QRC-E-3/8"f | 2813910036 | 2                    |
|                                                                                     |                                              | C 3QRC-E-3/8"f | 2813910037 | 2                    |

# Connecting and joining technology

## Brass quick-release couplings Universal profile

|   |                           |
|---|---------------------------|
| ▶ | European standard profile |
| ▶ | NW 7.2                    |
| ▶ | Material: Brass           |

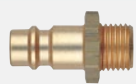


| Model         | Art. no.   | Packaging unit (pc.) | Designation                                  |                                                                                     |
|---------------|------------|----------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
| C QRC-U-1/4"m | 2813910084 | 5                    | Quick-release couplings with external thread |  |
| C QRC-U-3/8"m | 2813910085 | 5                    |                                              |                                                                                     |
| C QRC-U-1/2"m | 2813910086 | 5                    |                                              |                                                                                     |
| C QRC-U-1/4"f | 2813910087 | 5                    | Quick-release couplings with internal thread |  |
| C QRC-U-3/8"f | 2813910088 | 5                    |                                              |                                                                                     |
| C QRC-U-1/2"f | 2813910089 | 5                    |                                              |                                                                                     |
| C QRC-U-6mm   | 2813910090 | 5                    | Quick-release couplings with hose nozzle     |  |
| C QRC-U-9mm   | 2813910091 | 5                    |                                              |                                                                                     |
| C QRC-U-13mm  | 2813910092 | 5                    |                                              |                                                                                     |

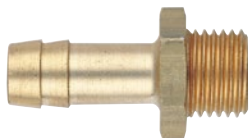
## Brass plug nipples

|   |                           |
|---|---------------------------|
| ▶ | European standard profile |
| ▶ | NW 7.2                    |
| ▶ | Material: Brass           |



| Model        | Art. no.   | Packaging unit (pc.) | Designation                      |                                                                                       |
|--------------|------------|----------------------|----------------------------------|---------------------------------------------------------------------------------------|
| C PN-E-1/4"m | 2813910041 | 5                    | Plug nipple with external thread |  |
| C PN-E-3/8"m | 2813910042 | 10                   |                                  |                                                                                       |
| C PN-E-1/2"m | 2813910043 | 10                   |                                  |                                                                                       |
| C PN-E-1/4"f | 2813910044 | 10                   | Plug nipple with internal thread |  |
| C PN-E-3/8"f | 2813910045 | 10                   |                                  |                                                                                       |
| C PN-E-1/2"f | 2813910046 | 10                   |                                  |                                                                                       |
| C PN-E-6mm   | 2813910038 | 10                   | Plug nipple with hose nozzle     |  |
| C PN-E-9mm   | 2813910039 | 10                   |                                  |                                                                                       |
| C PN-E-13mm  | 2813910040 | 10                   |                                  |                                                                                       |

## Hoze nozzles



▶ European standard profile

▶ Material: Brass

|                                                                                     | Designation                      | Model               | Art. no.   | Packaging unit (pc.) |
|-------------------------------------------------------------------------------------|----------------------------------|---------------------|------------|----------------------|
|    | Hose nozzle with external thread | C HN-U-1/4"m x 6mm  | 2813910054 | 5                    |
|                                                                                     |                                  | C HN-U-1/4"m x 9mm  | 2813910055 | 10                   |
|                                                                                     |                                  | C HN-U-3/8"m x 6mm  | 2813910056 | 5                    |
|                                                                                     |                                  | C HN-U-3/8"m x 9mm  | 2813910057 | 10                   |
|                                                                                     |                                  | C HN-U-3/8"m x 13mm | 2813910058 | 10                   |
|                                                                                     |                                  | C HN-U-1/2"m x 6mm  | 2813910059 | 3                    |
|                                                                                     |                                  | C HN-U-1/2"m x 9mm  | 2813910060 | 10                   |
|                                                                                     |                                  | C HN-U-1/2"m x 13mm | 2813910061 | 10                   |
|   | Hose nozzle with internal thread | C HN-U-1/4"f x 6mm  | 2813910062 | 10                   |
|                                                                                     |                                  | C HN-U-1/4"f x 9mm  | 2813910063 | 5                    |
|                                                                                     |                                  | C HN-U-3/8"f x 6mm  | 2813910064 | 10                   |
|                                                                                     |                                  | C HN-U-3/8"f x 9mm  | 2813910065 | 10                   |
|                                                                                     |                                  | C HN-U-1/2"f x 9mm  | 2813910066 | 10                   |
|                                                                                     |                                  | C HN-U-1/2"f x 13mm | 2813910067 | 10                   |
|  | Hose coupling                    | C HOC-U-6mm         | 2813910068 | 2                    |
|                                                                                     |                                  | C HOC-U-9mm         | 2813910069 | 2                    |

## Hose clamps



- Steel
- Galvanised and polished with 2 profiled lugs
- Range: 7 mm

| Model          | Art. no.   | Packaging unit (pc.) |
|----------------|------------|----------------------|
| C HC-U-11-13mm | 2813910047 | 10                   |
| C HC-U-13-15mm | 2813910048 | 10                   |
| C HC-U-15-18mm | 2813910049 | 10                   |

## Screw clamps



- Steel, polished and galvanised
- Range: 9 mm
- Screw thread with Phillips screw AF 7 mm

| Model          | Art. no.   | Packaging unit (pc.) |
|----------------|------------|----------------------|
| C SC-U-10-16mm | 2813910050 | 10                   |
| C SC-U-12-20mm | 2813910051 | 10                   |
| C SC-U-16-25mm | 2813910052 | 10                   |
| C SC-U-20-32mm | 2813910053 | 10                   |

# Connecting and joining technology

## Double nipple

| Model                | Art. no.   | Packaging unit (pc.) | Material         | Thread             | Designation   |                                                                                     |
|----------------------|------------|----------------------|------------------|--------------------|---------------|-------------------------------------------------------------------------------------|
| C DN-U-1/4"m x 1/8"m | 2813910070 | 5                    | Galvanised steel | With internal cone | Double nipple |  |
| C DN-U-1/4"m x 1/4"m | 2813910071 | 5                    | Galvanised steel | With internal cone |               |                                                                                     |
| C DN-U-3/8"m x 3/8"m | 2813910073 | 5                    | Galvanised steel | With internal cone |               |                                                                                     |
| C DN-U-1/2"m x 1/2"m | 2813910075 | 5                    | Galvanised steel | With internal cone |               |                                                                                     |
| C DN-U-3/8"m x 1/4"m | 2813910072 | 5                    | Galvanised steel | With internal cone |               |                                                                                     |
| C DN-U-1/2"m x 3/8"m | 2813910074 | 5                    | Galvanised steel | With internal cone |               |                                                                                     |

## Reduction fittings

| Model                | Art. no.   | Packaging unit (pc.) | Material | Thread                            | Designation       |                                                                                     |
|----------------------|------------|----------------------|----------|-----------------------------------|-------------------|-------------------------------------------------------------------------------------|
| C RE-U-1/4"m x 1/8"f | 2813910076 | 5                    | Brass    | With external and internal thread | Reduction fitting |  |
| C RE-U-3/8"m x 1/4"f | 2813910077 | 5                    | Brass    | With external and internal thread |                   |                                                                                     |
| C RE-U-1/2"m x 3/8"f | 2813910078 | 5                    | Brass    | With external and internal thread |                   |                                                                                     |

## Reducing nipple

| Model                | Art. no.   | Packaging unit (pc.) | Material | Thread                            | Designation     |                                                                                       |
|----------------------|------------|----------------------|----------|-----------------------------------|-----------------|---------------------------------------------------------------------------------------|
| C RN-U-1/4"m x 3/8"f | 2813910079 | 10                   | Brass    | With external and internal thread | Reducing nipple |  |
| C RN-U-3/8"m x 1/2"f | 2813910080 | 10                   | Brass    | With external and internal thread |                 |                                                                                       |

## Sleeves

| Model      | Art. no.   | Packaging unit (pc.) | Material | Designation |                                                                                       |
|------------|------------|----------------------|----------|-------------|---------------------------------------------------------------------------------------|
| C MU-1/4"f | 2813910081 | 10                   | Brass    | Sleeve      |  |
| C MU-3/8"f | 2813910082 | 10                   | Brass    |             |                                                                                       |
| C MU-1/2"f | 2813910083 | 10                   | Brass    |             |                                                                                       |



# Maintenance units

Excellent air quality for every application



Achieve maximum compressed air quality and outstanding working results with our filters and maintenance units – from prefilters and microfilters through to activated carbon filters.

# Maintenance units

## Pressure reducer

- Pressure regulator with piston for high operational reliability
- High stability of adjusting pressure, even if the input pressure or the flow rate changes
- Assembly independent of flow direction thanks to double-sided connection option for pressure gauge

|   |                                           |
|---|-------------------------------------------|
| ▶ | With lockable adjustment button           |
| ▶ | Regulation range 0-12 bar                 |
| ▶ | Standard features include: pressure gauge |

| Model            | Art. no.   | Flow rate (l/min) | Connecting thread | Connection for pressure gauge | Dimensions (WxDxH) |
|------------------|------------|-------------------|-------------------|-------------------------------|--------------------|
| FRL PR-1/4"f     | 2813920000 | 700               | G 1/4"i           | G 1/8"i                       | 42x42x94           |
| FRL PR-1/4"f NPT | 2813920033 | 700               | G 1/4"i           | G 1/8"i                       | 42x42x94           |
| FRL PR-3/8"f     | 2813920001 | 2,500             | G 3/8"i           | G 1/8"i                       | 60x60x130          |
| FRL PR-3/8"f NPT | 2813920034 | 2,500             | G 3/8"i           | G 1/8"i                       | 60x60x130          |
| FRL PR-1/2"f     | 2813920002 | 2,500             | G 1/2"i           | G 1/8"i                       | 60x60x130          |
| FRL PR-1/2"f NPT | 2813920035 | 2,500             | G 1/2"i           | G 1/8"i                       | 60x60x130          |
| FRL PR-3/4"f     | 2813920003 | 5,600             | G 3/4"i           | G 1/4"i                       | 80x80x184          |
| FRL PR-3/4"f NPT | 2813920004 | 5,600             | G 3/4"i           | G 1/4"i                       | 80x80x184          |
| FRL PR-1"f       | 2813920005 | 5,600             | G 1"i             | G 1/4"i                       | 80x80x184          |
| FRL PR-1"f NPT   | 2813920006 | 5,600             | G 1"i             | G 1/4"i                       | 80x80x184          |



## Water separator with filter

- Centrifugal acceleration of compressed air for efficient separation of dirt particles and condensate
- Filtering function upstream of the pressure reducer

|   |                                        |
|---|----------------------------------------|
| ▶ | Two-stage mechanical filter with 20 µm |
| ▶ | Semi-automatic drainage                |

| Model            | Art. no.   | Connecting thread | Condensate tank volume (cm³) | Dimensions (WxDxH) |
|------------------|------------|-------------------|------------------------------|--------------------|
| FRL WS-1/4"f     | 2813920007 | G 1/4"i           | 10                           | 42x42x142          |
| FRL WS-1/4"f NPT | 2813920036 | G 1/4"i           | 10                           | 42x42x142          |
| FRL WS-3/8"f     | 2813920008 | G 3/8"i           | 45                           | 60x60x180          |
| FRL WS-3/8"f NPT | 2813920037 | G 3/8"i           | 45                           | 60x60x180          |
| FRL WS-1/2"f     | 2813920009 | G 1/2"i           | 45                           | 60x60x180          |
| FRL WS-1/2"f NPT | 2813920038 | G 1/2"i           | 45                           | 60x60x180          |
| FRL WS-3/4"f     | 2813920010 | G 3/4"i           | 170                          | 80x80x235          |
| FRL WS-3/4"f NPT | 2813920011 | G 3/4"i           | 170                          | 80x80x235          |
| FRL WS-1"f       | 2813920012 | G 1"i             | 170                          | 80x80x235          |
| FRL WS-1"f NPT   | 2813920013 | G 1"i             | 170                          | 80x80x235          |



## Filter pressure reducer



- Combines the technical benefits of the pressure reducer and the water separator with filter in one compact unit
- Pressure regulator with piston for high operational reliability
- Assembly independent of flow direction thanks to double-sided connection option for pressure gauge

|   |                                                                    |
|---|--------------------------------------------------------------------|
| ▶ | With lockable adjustment button                                    |
| ▶ | Regulation range 0-12 bar                                          |
| ▶ | Standard features include: pressure gauge and 20 µm filter element |

| Model             | Art. no.   | Flow rate (l/min) | Connection thread | Condensate tank volume (cm³) | Dimensions (WxDxH) |
|-------------------|------------|-------------------|-------------------|------------------------------|--------------------|
| FRL FPR-1/4"f     | 2813920014 | 700               | G 1/4"i           | 10                           | 42x42x190          |
| FRL FPR-1/4"f NPT | 2813920039 | 700               | G 1/4"i           | 10                           | 42x42x190          |
| FRL FPR-3/8"f     | 2813920015 | 2,500             | G 3/8"i           | 45                           | 60x60x245          |
| FRL FPR-3/8"f NPT | 2813920040 | 2,500             | G 3/8"i           | 45                           | 60x60x245          |
| FRL FPR-1/2"f     | 2813920016 | 2,500             | G 1/2"i           | 45                           | 60x60x245          |
| FRL FPR-1/2"f NPT | 2813920041 | 2,500             | G 1/2"i           | 45                           | 60x60x245          |
| FRL FPR-3/4"f     | 2813920017 | 5,600             | G 3/4"i           | 170                          | 80x80x332          |
| FRL FPR-3/4"f NPT | 2813920018 | 5,600             | G 3/4"i           | 170                          | 80x80x332          |
| FRL FPR-1"f       | 2813920019 | 5,600             | G 1"i             | 170                          | 80x80x332          |
| FRL FPR-1"f NPT   | 2813920020 | 5,600             | G 1"i             | 170                          | 80x80x332          |

## Mist oiler



- Regular oil flow for efficient supply to tools
- Proportional adjustment of the oil supply to the air flow rate for optimal lubrication possible, even at low pressures and low air flow rates
- Oil purification downstream of the filter pressure reducer

| Model            | Art. no.   | Connecting thread | Oil reservoir volume (cm³) | Dimensions (WxDxH) |
|------------------|------------|-------------------|----------------------------|--------------------|
| FRL MO-1/4"f     | 2813920021 | G 1/4"i           | 50                         | 42x42x156          |
| FRL MO-1/4"f NPT | 2813920042 | G 1/4"i           | 50                         | 42x42x156          |
| FRL MO-3/8"f     | 2813920022 | G 3/8"i           | 150                        | 60x60x195          |
| FRL MO-3/8"f NPT | 2813920043 | G 3/8"i           | 150                        | 60x60x195          |
| FRL MO-1/2"f     | 2813920023 | G 1/2"i           | 150                        | 60x60x195          |
| FRL MO-1/2"f NPT | 2813920044 | G 1/2"i           | 150                        | 60x60x195          |
| FRL MO-3/4"f     | 2813920024 | G 3/4"i           | 379                        | 80x80x260          |
| FRL MO-3/4"f NPT | 2813920045 | G 3/4"i           | 379                        | 80x80x260          |
| FRL MO-1"f       | 2813920025 | G 1"i             | 379                        | 80x80x260          |
| FRL MO-1"f NPT   | 2813920046 | G 1"i             | 379                        | 80x80x260          |

# Maintenance units

## Filter units

- Fully fitted maintenance system consisting of filter pressure reducer and mist oiler (2-way filter unit) or filter water separator, pressure reducer and mist oiler (3-way filter unit) ready for immediate operation
- Pressure regulator with piston for high operational reliability

|   |                                                                    |
|---|--------------------------------------------------------------------|
| ▶ | With lockable adjustment button                                    |
| ▶ | Regulation range 0-12 bar                                          |
| ▶ | Standard features include: pressure gauge and 20 µm filter element |

| Model                       | Art. no.          | Flow rate (l/min) | Version | Connecting thread | Dimensions (WxDxH) |
|-----------------------------|-------------------|-------------------|---------|-------------------|--------------------|
| <b>FRL FPR-MO-1/4"i</b>     | <b>2813920026</b> | 700               | double  | G 1/4"i           | 84x42x190          |
| <b>FRL FPR-MO-1/4"i NPT</b> | <b>2813920047</b> | 700               | double  | G 1/4"i           | 84x42x190          |
| <b>FRL FPR-MO-3/8"i</b>     | <b>2813920027</b> | 2,500             | double  | G 3/8"i           | 120x60x245         |
| <b>FRL FPR-MO-3/8"i NPT</b> | <b>2813920048</b> | 2,500             | double  | G 3/8"i           | 120x60x245         |
| <b>FRL FPR-MO-1/2"i</b>     | <b>2813920028</b> | 2,500             | double  | G 1/2"i           | 120x60x245         |
| <b>FRL FPR-MO-1/2"i NPT</b> | <b>2813920049</b> | 2,500             | double  | G 1/2"i           | 120x60x245         |
| <b>FRL FPR-MO-3/4"i</b>     | <b>2813920029</b> | 5,600             | double  | G 3/4"i           | 160x80x332         |
| <b>FRL FPR-MO-3/4"i NPT</b> | <b>2813920030</b> | 5,600             | double  | G 3/4"i           | 160x80x332         |
| <b>FRL FPR-MO-1"i</b>       | <b>2813920031</b> | 5,600             | double  | G 1"i             | 160x80x332         |
| <b>FRL FPR-MO-1"i NPT</b>   | <b>2813920032</b> | 5,600             | double  | G 1"i             | 160x80x332         |





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