

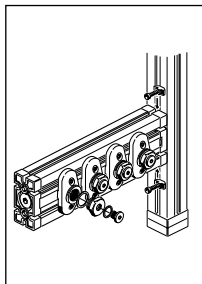
Section 8: Air Supply Elements

Overview

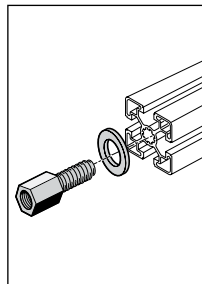
Air supply elements convert certain profiles into compressed air bars. Convenient and flexible pneumatic connections can then be placed anywhere along the compressed air bars and provide easy access to tools.

Elements can be purchased completely assembled or as separate components. The advantages of purchasing separate components are:

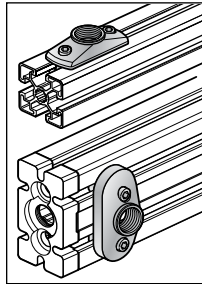
1. Allows custom lengths
2. Can have multiple ports in various locations along the profile



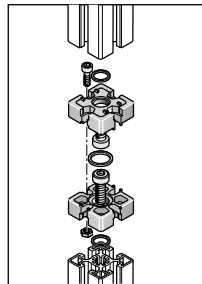
Pre-Assembled Air Bar
8-1



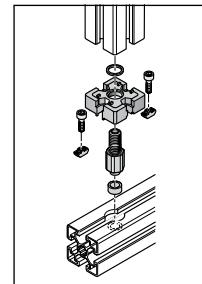
Pneumatic Fitting M12-to-G"
8-1



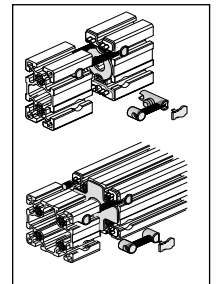
G" & G^{3/8}" Pneumatic Port Kits
8-2



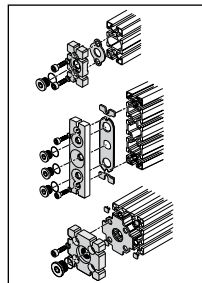
45mm Pneumatic End-to-End Kit
8-3



45mm Pneumatic T-Junction Kit
8-3-2



Air Gaskets
8-4

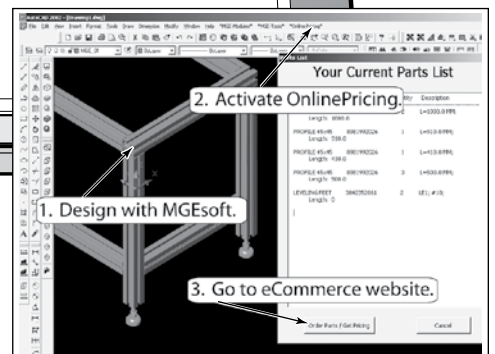


Multi-Port End Seal Kits
8-5

Design Engineering Tip

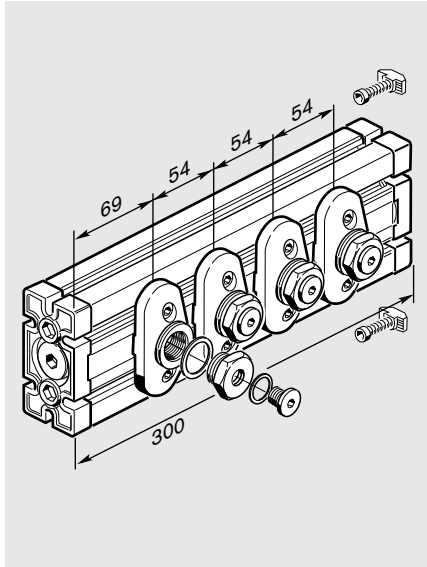
Three Steps from Design to Order

1. Use MGEsoft to design, add accessories, and automatically generate an accurate Parts List.
2. Activate Online Pricing to format your current drawing for import into the eCommerce website.
3. One click takes you to the Rexroth eCommerce shopping cart where you'll see prices. Print your price list or just proceed to the "Secure Checkout" to complete the order and send it to your distributor.

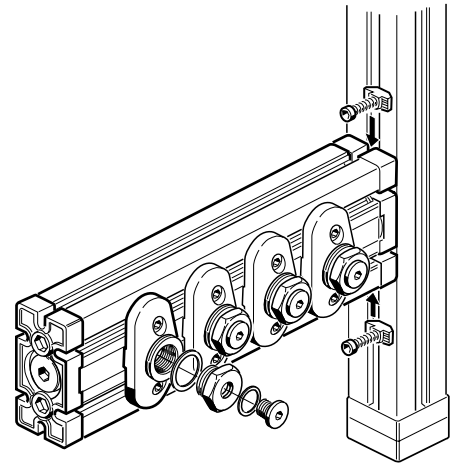


Section 8: Air Supply Elements

Air Supply Elements

Pre-Assembled Air Bar **Features:**

- Pre-assembled air bar has four evenly spaced pneumatic connections
- Fastens easily to standard profiles with 10mm T-slots
- Mounts vertically or horizontally, ideal for workstations
- Can handle up to 8 bar (≈ 120 psi)
- Constructed with 45x90H profile, 300mm long
- Air connection ports are G $1/2$ ''; includes G $1/2$ '' to G $1/4$ '' reducing nipples, as well as screw plugs for unused ports
- Additional/replacement reducing nipples and screw plugs available below
- Connectors for plastic air tube must be purchased separately



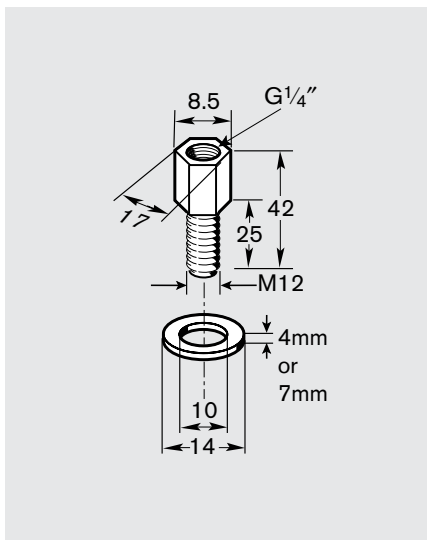
- Mounting hardware included

Material:

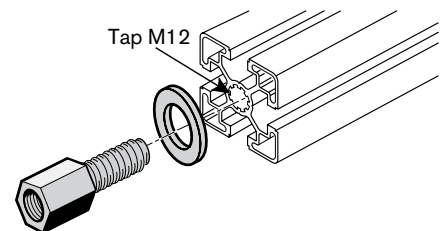
- End plates: die-cast aluminum
- Gaskets: PUR
- Pneumatic ports: die-cast zinc
- Mounting hardware: zinc-plated steel

Description**Lot Size*****Part Number**

Pre-assembled air bar	1	3 842 352 088
Reducing nipple G $1/2$ '' to G $1/4$ '' and seal	5	1 823 391 300
G $1/4$ '' plug and seal	25	1 823 462 029

Pneumatic Fitting M12-to-G $1/4$ ''**Features:**

- Allows use of center bore as a duct for compressed air up to 8 bar (≈ 120 psi)
- Works with any profile that can be tapped M12
- Can also be used to replace M12 screws on multi-port end seal kits to create additional air ports
- Two types of seals available: 4mm thick for H-series profiles, and 7mm thick for standard profiles

**Material:**

- Fitting: zinc-plated steel
- Seals: NBR

Description**Lot Size *****Part Number**

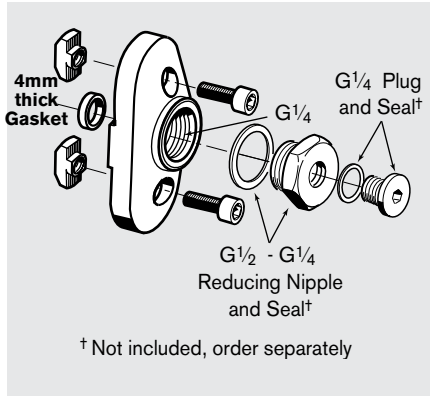
Pneumatic fitting M12-to-G $1/4$ ''	10	3 842 535 719
4mm thick seal for H-series profiles	10	3 842 503 242
7mm thick seal for standard profiles	10	3 842 523 102

* For smaller quantities, please contact your local distributor.

Section 8: Air Supply Elements

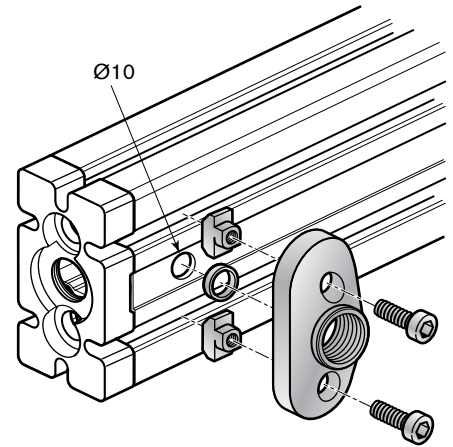
Air Supply Elements

Pneumatic Port Kit G^{1/2}" ¹⁰



Features:

- Allows installation of a G^{1/2}" pneumatic port for compressed air tools on 45x90H, 45x180H, 90x90, and 90x180 profiles
- Can be mounted anywhere along length of profile
- Can be used with compressed air up to 8 bar (≅120 psi)
- Requires drilling a 10mm hole into center channel of profile
- Includes port, gasket, and mounting hardware
- May be used with G^{1/2}" to G^{1/4}" reducing nipples, as well as screw plugs for unused ports (order separately below)



Material:

- Port: die-cast zinc
- Hardware: zinc-plated steel

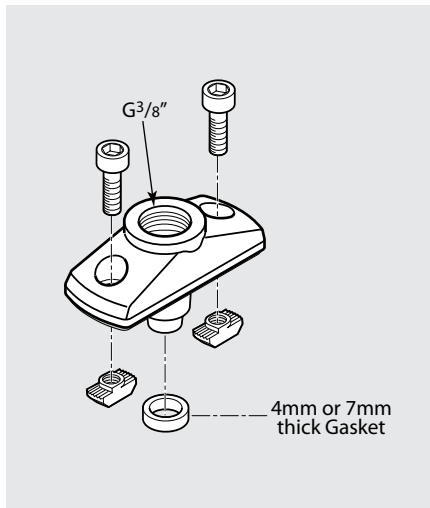
Machining Required:

- 10mm hole (as shown above)

Description	Lot Size*	Part Number
Pneumatic port kit G ^{1/2} "	1	3 842 352 085
Reducing nipple G ^{1/2} " to G ^{1/4} " and seal	1	1 823 391 300
G ^{1/4} " plug and seal	1	1 823 462 029
Replacement Gasket 4mm thick	10	3 842 503 242

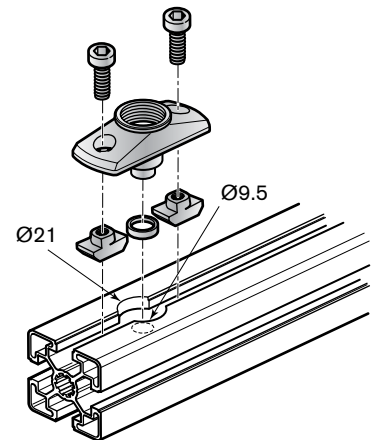
* For smaller quantities, please contact your local distributor.

Pneumatic Port Kit G^{3/8}" ¹⁰



Features:

- Allows installation of a G^{3/8}" pneumatic port along the center channel of most standard profiles with 10mm T-slots
- Can be used with compressed air up to 8 bar (≅120 psi)
- Can be mounted anywhere along length of profile
- Includes port, gasket, and mounting hardware



Machining Required:

- 9.5mm hole with 21mm counterbore

Material:

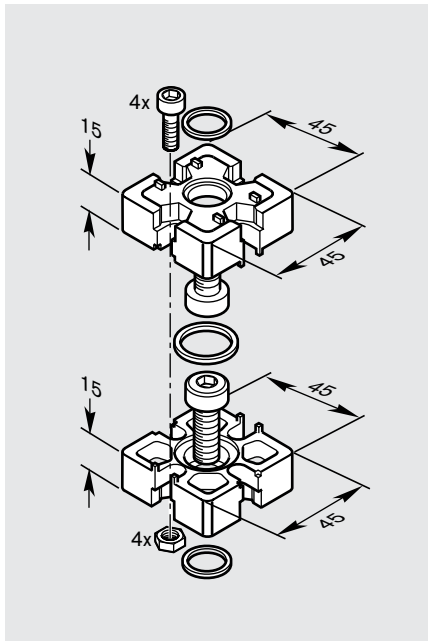
- Port: die-cast zinc
- Hardware: zinc-plated steel

Description	Lot Size*	Part Number
Pneumatic port kit G ^{3/8} "	1	3 842 523 092
Replacement Gasket 4mm thick	10	3 842 503 242
Replacement Gasket 7mm thick	10	3 842 523 102

* For smaller quantities, please contact your local distributor.

Section 8: Air Supply Elements

45mm Pneumatic End-to-End Kit 



Features:

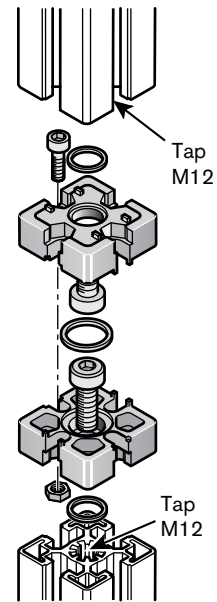
- Connects two 45x45 profiles together end-to-end to create an uninterrupted pneumatic duct via the center channel
- Can be used with compressed air up to 8 bar (≈120 psi)
- Maximum torque on profile connection is 120 Nm
- Includes all mounting hardware, seals, and two hollow M12 screws

Machining Required:

- End of both profiles tapped M12

Material:

- End plates: die-cast aluminum
- Hardware: zinc-plated steel



Description

Lot Size

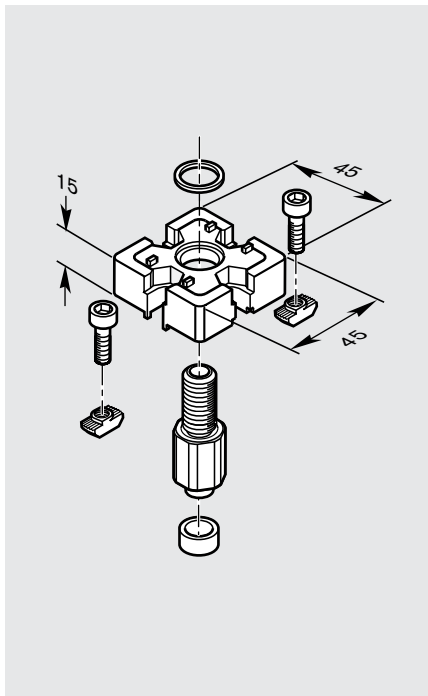
Part Number

45mm pneumatic end-to-end kit

1

3 842 523 094

45mm Pneumatic T-Junction Kit 



Features:

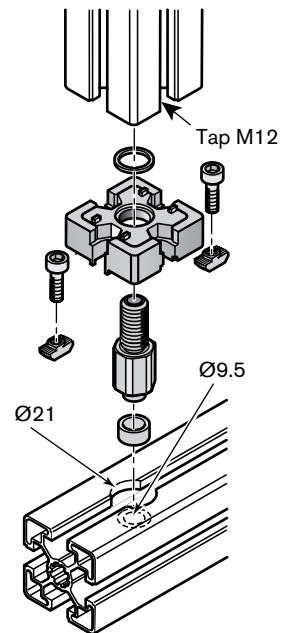
- Connects two 45x45 profiles together at right angles to create a pneumatic duct via the center channel
- Can be used with compressed air up to 8 bar (≈120 psi)
- Maximum torque on profile connection is 120 Nm
- Can be installed anywhere along length of profile
- Includes all mounting hardware, seals, and two hollow M12 screws

Machining Required:

- End of one profile tapped M12; other profile drilled 9.5mm with 21mm counterbore

Material:

- End plate: die-cast aluminum
- Hardware: zinc-plated steel



Description

Lot Size

Part Number

45mm pneumatic T-junction kit

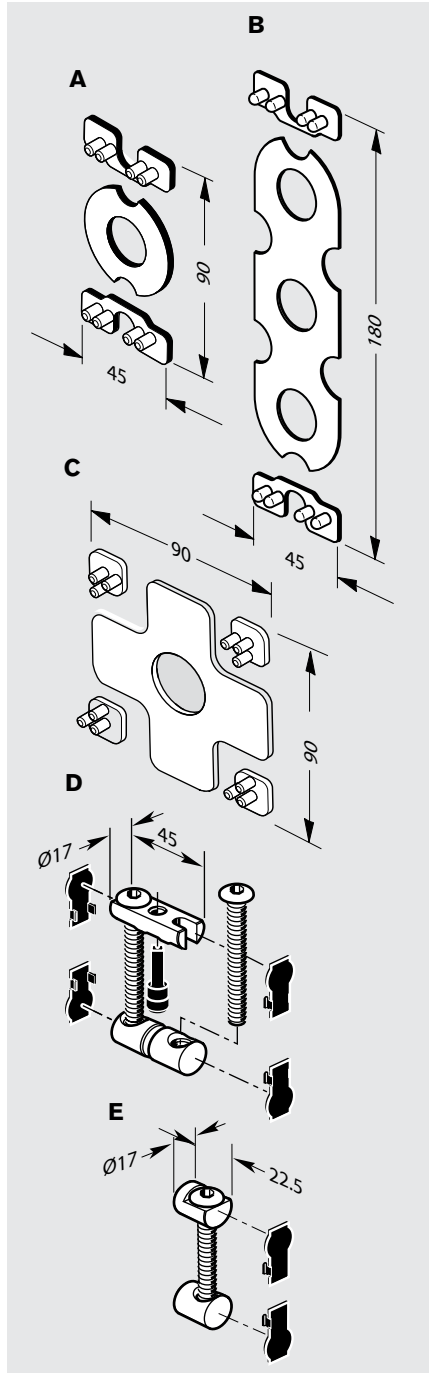
1

3 842 523 093

Section 8: Air Supply Elements

Air Supply Elements

Air Gaskets ¹⁰



Features:

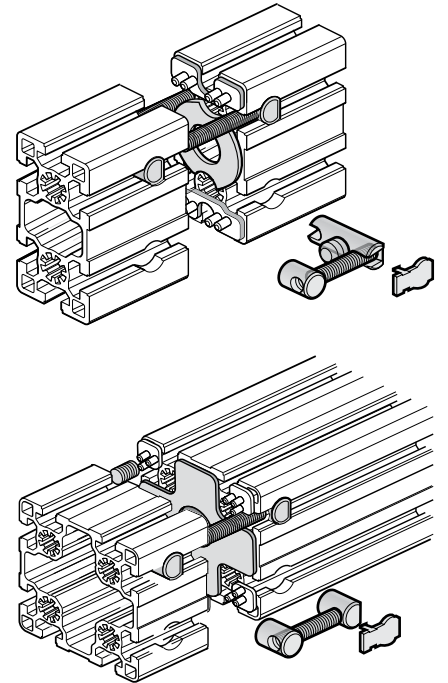
- Provide a seal between connecting ends of 45x90, 45x90H, 45x180H, 90x90, and 90x180 profiles to create a continuous linear channel
- Allows use of center channel to create an air duct for compressed air up to 8 bar (≅120 psi)
- 45x90H, and 45x180H require two end-to-end 45mm bolt connector kits (order **D** separately below)
- 90x90 and 90x180 require four universal bolt connector kits (order **E** separately below)

Machining Required:

- 17mm diameter holes for bolt connectors

Material:

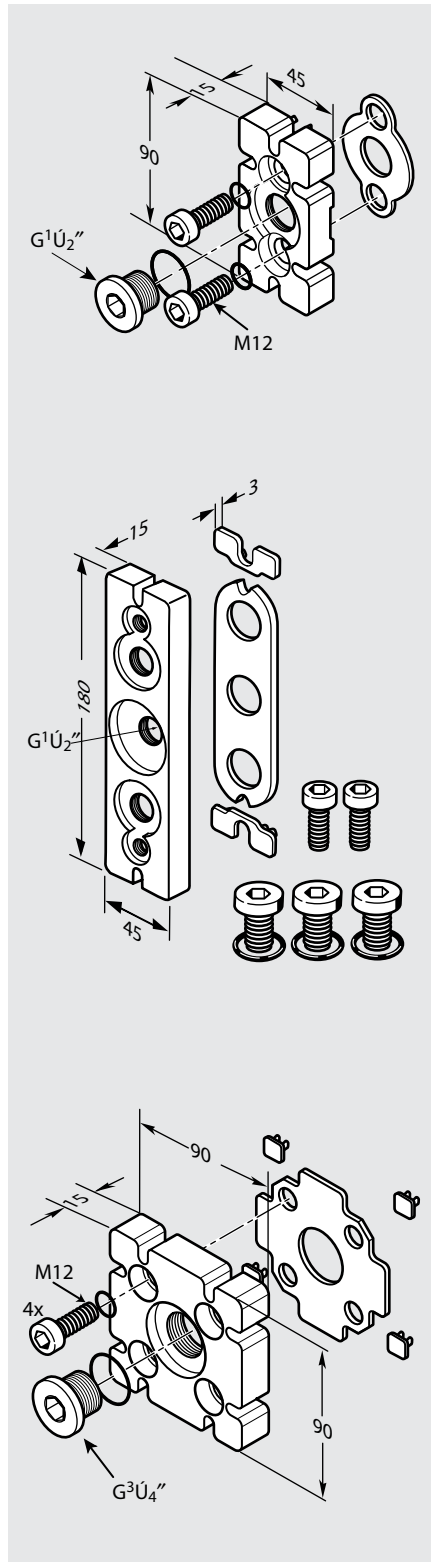
- 45x90H air gaskets: PUR
- 45x180H, 90x90, and 90x180 air gaskets: NBR



Description	Lot Size	Part Number
A 45x90H air gasket	1	3 842 508 087
B 45x180H air gasket	1	3 842 508 088
C 90x90 air gasket (two required for 90x180)	1	3 842 510 145
D End-to-end bolt connector kit, 45mm	1	3 842 529 248
E Universal end-to-end bolt connector kit	1	3 842 529 334

Section 8: Air Supply Elements

Multi-Port End Seal Kits for 45x90, 45x180H, and 90x90 Profiles



Features:

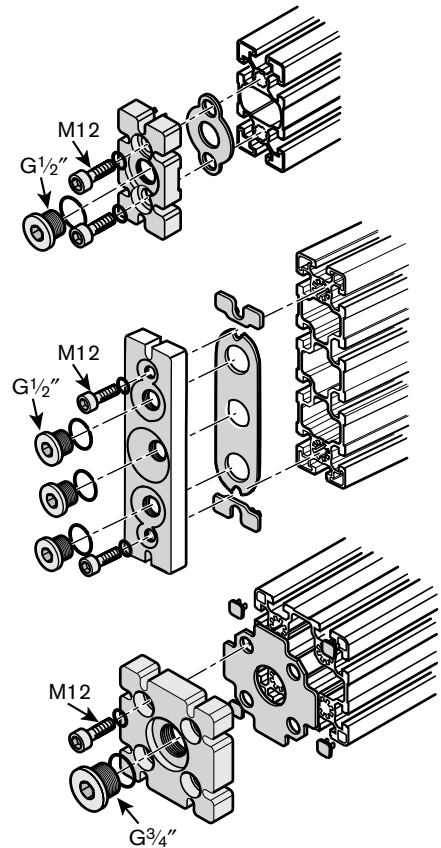
- Allows use of center channels to be used as air ducts for compressed air up to 8 bar (≈ 120 psi)
- Center bores of profiles can also be used to carry compressed air by replacing the M12 screws with M12-to-G $^{1/4}$ fittings (sold separately, details on page 8-1)
- 45x90H and 45x180 feature G $^{1/4}$ ports; 90x90 features a G $^{3/4}$ port
- Includes end plate, gaskets, plugs, and all necessary mounting hardware
- Additional G $^{1/2}$ plugs and seals, as well as G $^{1/2}$ -to-G $^{1/4}$ reducer nipples, are available separately

Machining Required:

- M12 tap in center bores of profile

Material:

- End plate: die-cast aluminum
- Gaskets: 45x90–PUR; 45x180H and 90x90–NBR



Description	Lot Size*	Part Number
Multi-port end seal kit for 45x90H profile	1	3 842 523 097
Multi-port end seal kit for 45x180H profile	2	3 842 535 721
Multi-port end seal kit for 90x90 profile	1	3 842 523 098
Pneumatic fitting M12-to-G $^{1/4}$	10	3 842 535 719
Reducing nipple G $^{1/2}$ to G $^{1/4}$ and seal	1	1 823 391 300
G $^{1/4}$ plug and seal	1	1 823 462 029

* For smaller quantities, please contact your local distributor.

