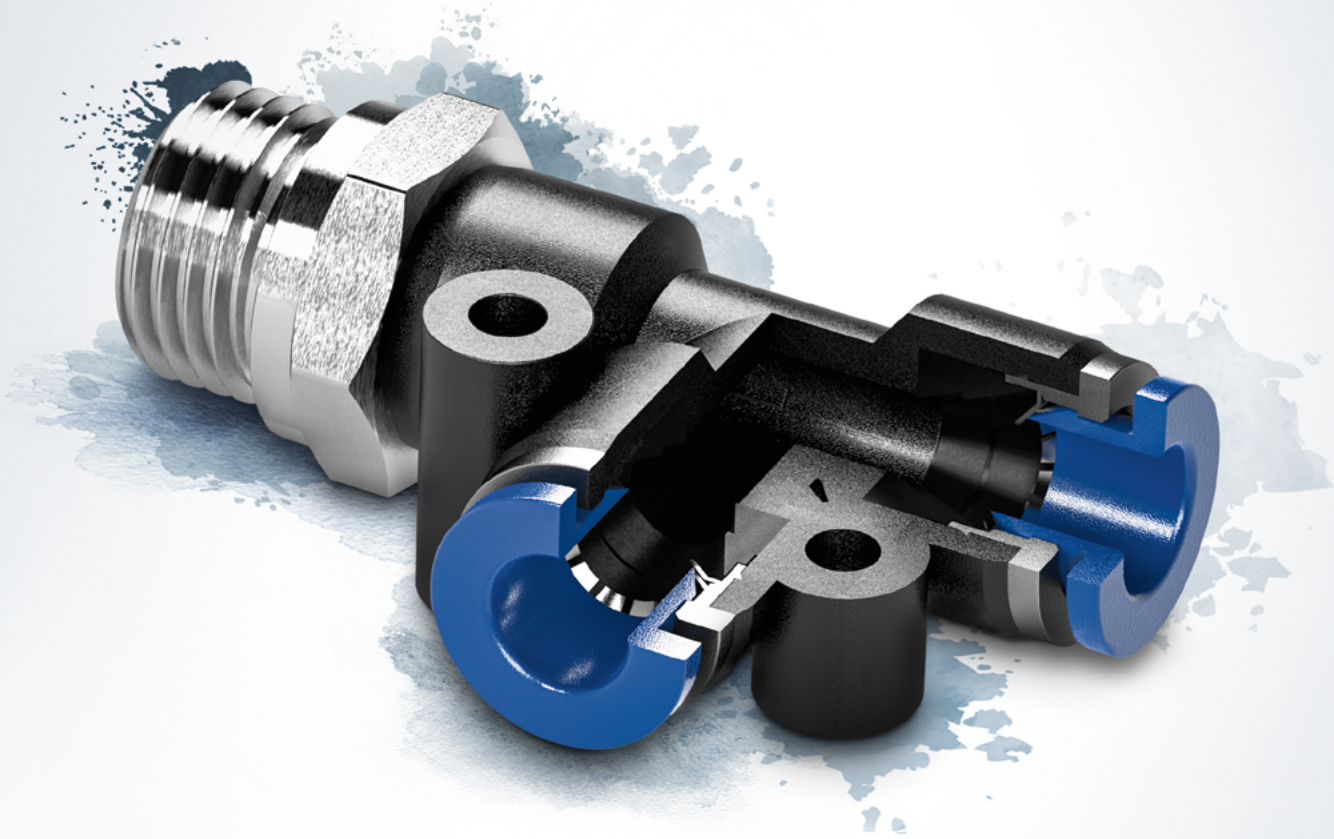
BLUE SERIES

PUSH-IN FITTINGS



SMART AND TRUE.
GO FOR BLUE.

SIMPLY THAT BIT BETTER. RIEGLER.DE

RIEGLER
Compressed air and Pneumatics

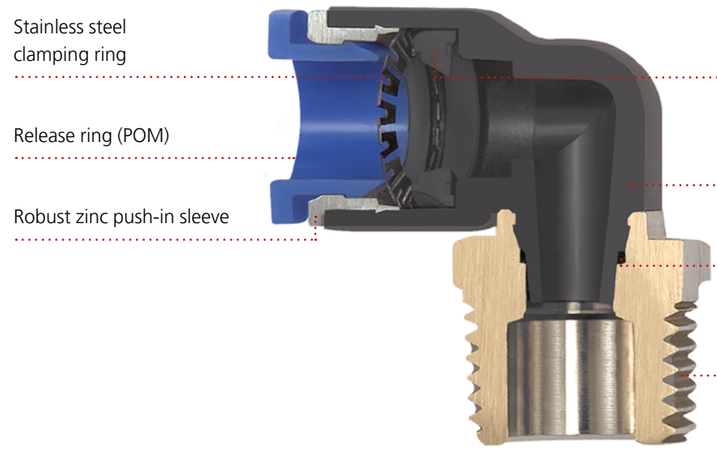
GO FOR BLUE.
IT FITS LIKE GLUE.

PUSH-IN FITTINGS AND SCREW FITTINGS: RELIABLE COMPONENTS FOR FAST INSTALLATION.

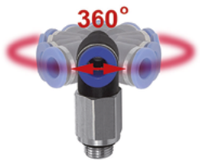
You'll recognize them from the blue release ring: Thepush-in fittings in the »Blue Series« are not only quick and easy to identify, they're also straightforward to use. Which saves you time – and ultimately money.

From our can-do approach to yours: RIEGLER push-in fittings in the »Blue Series« are particularly quick to connect and just as easy to disconnect. They can be reused several times, and all angled push-in fittings can be freely positioned even after installation.

All push-in fittings with the blue release ring enable a wide range of connections and can be used in many different ways. These "blues" can be used to connect plastic hoses or copper pipes and, since they are clamped on the outside, do not constrict the pipe cross-section. The connectors are optionally available with a conical, self-sealing coated thread or with a cylindrical thread and O-ring. We cater to the various pneumatic applications with over 1,000 different items of tested quality that we keep in stock at all times – and can even send by express delivery.



FLEXIBLE PUSH-IN SCREW FITTINGS



Right where you want them at all times: All angled push-in fittings can also be adjusted through 360° after they have been installed.

SCREW CONNECTION VARIANTS

Cylindrical M and G threads with chambered O-ring

Conical R thread with self-sealing thread coating

OPERATING PRESSURE UP TO MAX. **10 BAR***
*15 BAR IN SHORT BURSTS

3–16 MM
OUTER HOSE DIAMETER

MAX. **80 °C**
OPERATING TEMPERATURE

PLASTIC OR BRASS NICKEL-PLATED

WANT TO MAKE FIRM CONNECTIONS?

»Blue Series« push-in fittings

THE connector system for your standard pneumatic applications

- **Huge diversity of variants.**
  Custom-fit solutions for your application.
- **Excellent value for money.**
  You get exceptional quality at a fair price.
- **Great availability.**
  All standard sizes waiting in the warehouse.

»Blue Series« push-in fittings

EASY

Nickel-plated housing material:	Plastic or brass
Seal material:	NBR
Release ring material:	Plastic
Recommended hose/raw material:	PU, PA (nylon)

Series	Special feature	Areas of application/use	Hose outer Ø [mm]	Operating pressure	Temperature range
»Blue Series«, mini	Space-saving, for confined installation conditions	Compressed air systems, automation technology, automotive industry, packaging industry, vacuum	3 to 6	max. 10 bar	0 °C to 60 °C
»Blue Series«	Huge variety	Compressed air systems, automation technology, automotive industry, packaging industry, vacuum	3 to 16	max. 10 bar **	–20 °C bis 80 °C*
»Blue Series« stop valves and check valves	Easy to unplug and plug in	Compressed air systems	4 to 12	max. 10 bar	0 °C to 60 °C

* Deviations possible from individual types
** Operating pressure of shut-off valves: 1.5 to 10 bar

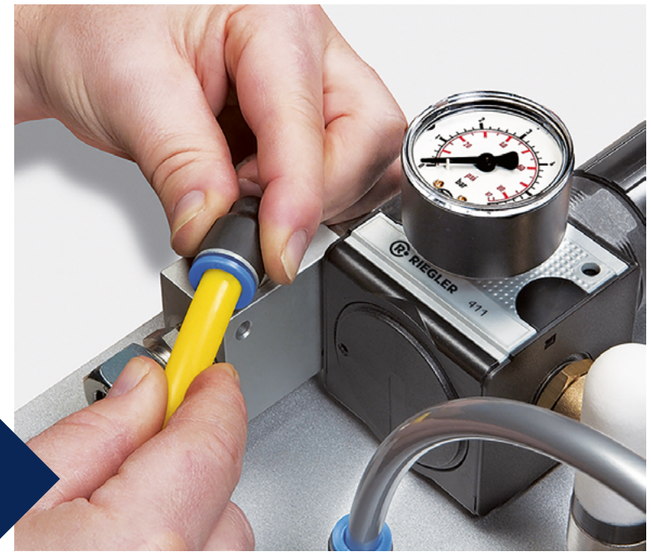
VARIANTS

- Straight push-in connectors
- Straight push-in screw fittings
- L-shaped push-in connectors
- L-shaped push-in screw fittings
- Multi-channel distributor
- 45° push-in connectors
- T-shaped push-in connectors
- T-shaped push-in screw fittings
- 45° angled screw fittings
- X-shaped push-in connectors
- Y-shaped push-in screw fittings
- Y-shaped push-in connectors
- Y-shaped angled screw fittings
- Functional connector
- Bulkhead push-in connectors
- Bulkhead push-in screw fittings

You can find a wide range of accessories for the »Blue Series« in our online shop.

ASSEMBLY AND DISASSEMBLY OF HOSES.

If your application involves swivel movements of the hose, it's best to use special swivel screw fittings to prevent leaks. Avoid vibrations and torsional or tensile forces on the plug connections. The user is responsible for carrying out suitability testing for use with specifications that deviate from those of the manufacturer, and we therefore recommend that you carry out a leak test straight after installation.

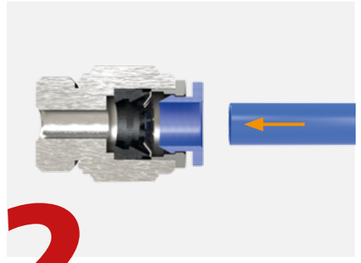


ASSEMBLING THE HOSE

1

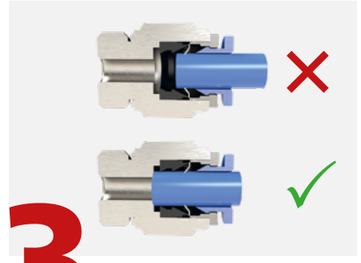
Cut the hose straight across without damaging the outer surface. The easiest way to do this is to use a sharp hose cutter.

To ensure an optimum seal and secure retention of the connections, the hose end must not be oval.



2

Clean the end of the hose and remove any burs. Ensure that the hose is within the permissible tolerances. Please note that soft hoses can only withstand low pressures.



3

Insert the end of the hose through the fastening clips and seals all the way into the quick connector. Incomplete installation can lead to compressed air leaks or disconnection of the hose.

To prevent accidental disconnection of the hose, ensure that nothing is touching the release ring of the push-in connector. Also make sure there are no unwanted forces impacting laterally. Finally, check that the connection is tight by pulling it briefly. Lay the compressed air hoses so that they do not pose a tripping hazard.

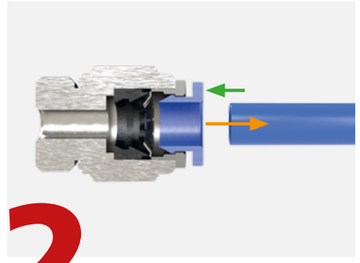
DISASSEMBLING THE HOSE

1

Before dismantling the hose, ensure that the hose line is depressurized.

Press the release ring on both sides with even pressure and sufficient depth so that you can open the retaining clips evenly while pulling the hose out of the plug connection with a slight twisting motion.

If the release ring is not pressed firmly enough, the hose cannot be removed or may be damaged by scratches. This can result in chips remaining inside the connector, which can lead to leaks later on.



2

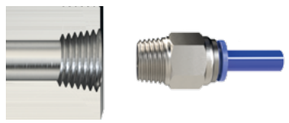
Cut the end of the hose straight again before reassembling it; that way it doesn't become more difficult to connect and disconnect.

AVAILABLE THREAD FORMS

External thread

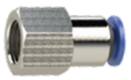
Metric thread

G thread according to ISO 228-1



R thread according to EN 10226-1 and ISO 7/1

Internal thread

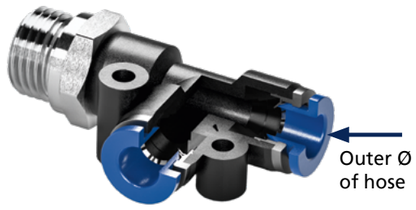


G thread according to ISO 228-1

R thread according to ISO 7/1

RECOMMENDED COMBINATION OF QUICK CONNECTOR AND HOSE

We recommend the following push-in connector/hose combinations for a secure quick connection:



PA hoses

Outer Ø for hose	Recommended hose Ø
3	3 x 1.5
4	4 x 2
5	5 x 3
6	6 x 4*
8	8 x 6*
10	10 x 7
12	12 x 9*
14	14 x 11*
16	16 x 12

PU hoses

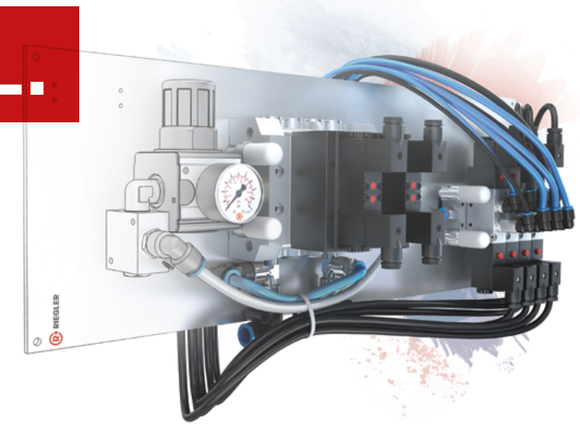
Outer Ø for hose	Recommended hose Ø
3	3 x 1.5
4	4 x 2
5	5 x 3
6	6 x 4*
8	8 x 5
10	10 x 7 *
12	12 x 8*
14	14 x 10
16	16 x 12

Permissible hose tolerances

Outer Ø for hose	PU hose	PA hose
3	± 0.10	± 0.08
4	± 0.10	± 0.08
6	± 0.12	± 0.10
8	± 0.12	± 0.10
10	± 0.15	± 0.12
12	± 0.15	± 0.12
14	± 0.15	± 0.12
16	± 0.15	± 0.15

* recommended and based on ISO 14743

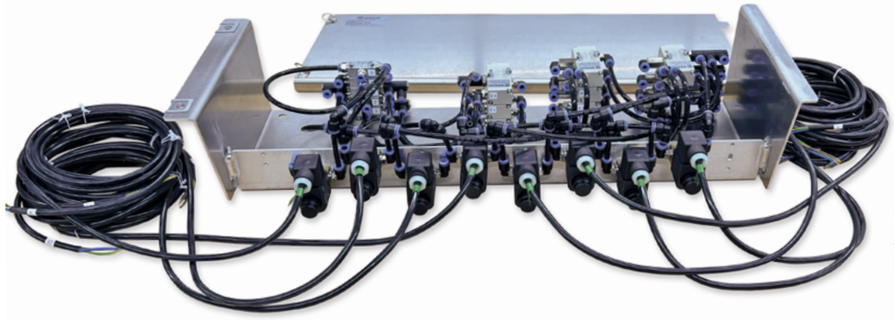
INDIVIDUAL. FAST. FLEXIBLE.



Needless to say, we also incorporate the »Blue Series« into the numerous assemblies that we develop individually for you.

These push-in fittings are the efficient solution for connecting pipes and tubes quickly and securely, and they stand out for their easy handling and versatility. The different thread types offer a high degree of flexibility, and the installed hose lines can be connected and disconnected several times without any compromise in the quality of the connection. The reusability of the »Blue Series« push-in fittings simplifies maintenance and replacement.

INDIVIDUAL SOLUTIONS



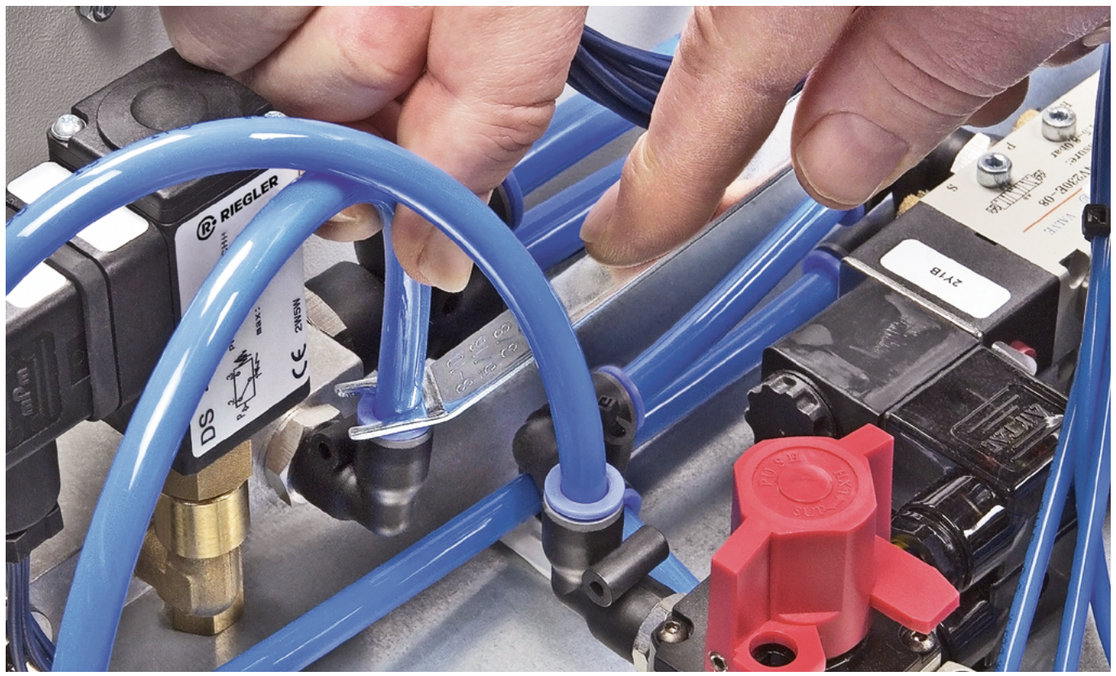
Example of an assembly: distribution block unit

DISCOVER THE »BLUE SERIES« ONLINE.

ACCESSORIES

You can find a wide range of accessories in our online shop:

- Silencers
- Plug nipples
- Reducers
- Sealing plug
- Sealing caps
- Push-in cartridges
- Release tool



Practical release tool for push-in fittings

THE FITS-ALL BLUE BOX.

FOR ASSEMBLY AND SERVICE

Assortment box with over 170 different »Blue Series« push-in fittings along with sealing tape and hose cutter.

Assortment box also available with a reduced selection.

IMPRINT

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