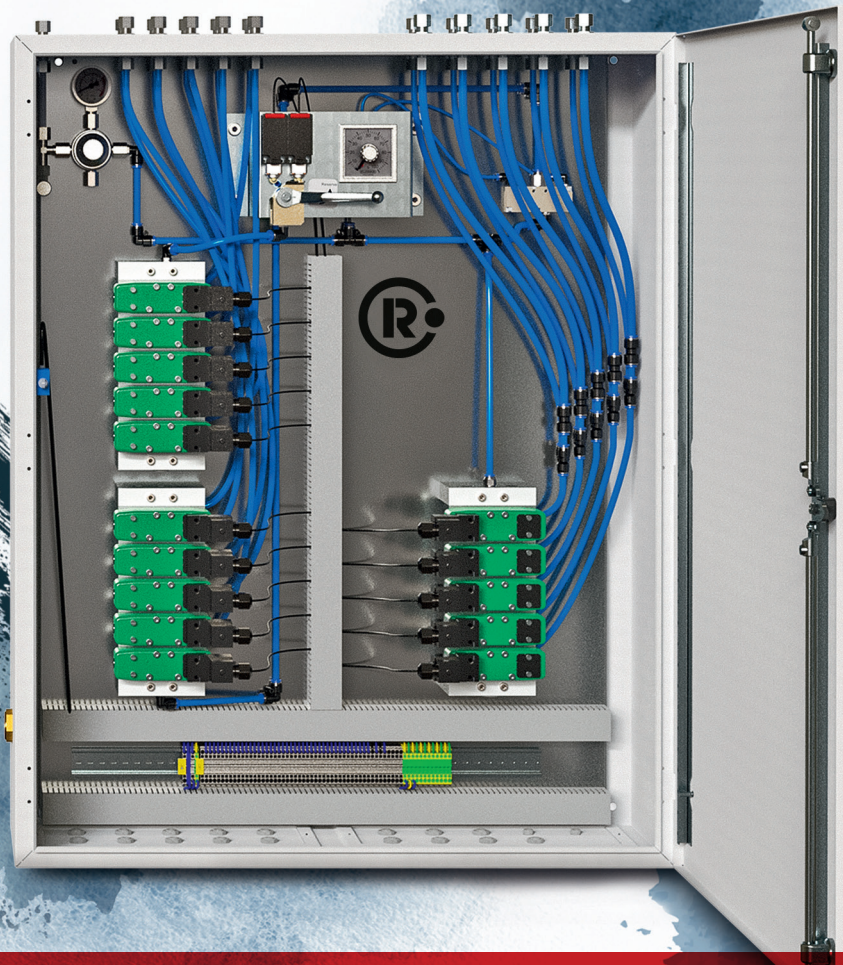


CUSTOMER SOLUTIONS
MODULES AND CYLINDER SERVICE



**THERE IS ALWAYS A
SOLUTION. WE MAKE
SURE IT'S THE
RIGHT ONE.**

SIMPLY THAT BIT BETTER. RIEGLER.DE

 **RIEGLER**
Compressed air and Pneumatics



**ABILITY IS ONE
THING. GETTING
THINGS DONE
IS QUITE
ANOTHER.**



DOERS DON'T NEED A LOT OF WORDS.
HENCE OUR GUIDING PRINCIPLE SUMS UP
THE RIEGLER COMPANY PHILOSOPHY IN
JUST A FEW WORDS:

1. SIMPLY

How we approach our customers: We always find the best solution.

2. THAT BIT

The added value we bring: For us, good is not good enough. We want to get people excited.

3. BETTER.

Our tradition of getting things done: We are knuckling down while others are still talking.

THERE ARE DEALERS, THERE ARE MANUFACTURERS, AND THERE'S RIEGLER.

With a huge range of products, our offering covers the full spectrum of compressed air applications. From screw fittings to cylinders – with us you'll find everything you need to make your ideas a reality. Here, we support you with a variety of services so that you can find a solution or have exactly the right product in your hands as quickly and as easily as possible.

PERFORMANCE MADE TO MEASURE.

The best solution is the one that perfectly suits you. In our technical center we develop and manufacture individual products and complete system solutions for all areas of fluid technology especially for you. In doing so, we make use of standardized parts wherever possible. Our expertise, a broad product range and extensive warehouse stocks save you time and costs. Where there is no solution, we create one. Our experts support you from the engineering to the prototype construction to operating instructions for the finished part – all from one source and with one contact person. After all, there's one thing you can be sure of: We truly love working with fluid technology.



ASK US.

You'll get answers from your customer advisor and our RIEGLER team:

+49 7125 9497-0 · info@riegler.de

IF IT DOESN'T EXIST, IT'S JUST BECAUSE WE HAVEN'T MADE IT YET.

Regardless of whether it's special cylinders or individually packaged and ready-to-install system solutions: We can make it! At RIEGLER Engineering we will be happy to knuckle down at any time to execute individual special solutions, starting from item number one. With services ranging from consultation to servicing the installed pneumatics, we make your task our own – and find an answer to every one of your questions.

PLANNING. ORDERING. DOING.

- **ENGINEERING, PLANNING AND CONSTRUCTION OF INDIVIDUAL INSTALLATION MODULES**
- **ECONOMICALLY PROJECTED SYSTEM SOLUTIONS**
- **READY-TO-INSTALL PNEUMATICS**
- **CAD PROJECTION**
- **SAMPLE AND PROTOTYPE CONSTRUCTION**
- **BESPOKE CYLINDER SOLUTIONS**
- **EXPRESS CYLINDER SERVICE**
- **PRODUCT-SPECIFIC SERVICES**
- **TECHNICAL CUSTOMER ADVICE**
- **QS TESTED QUALITY**



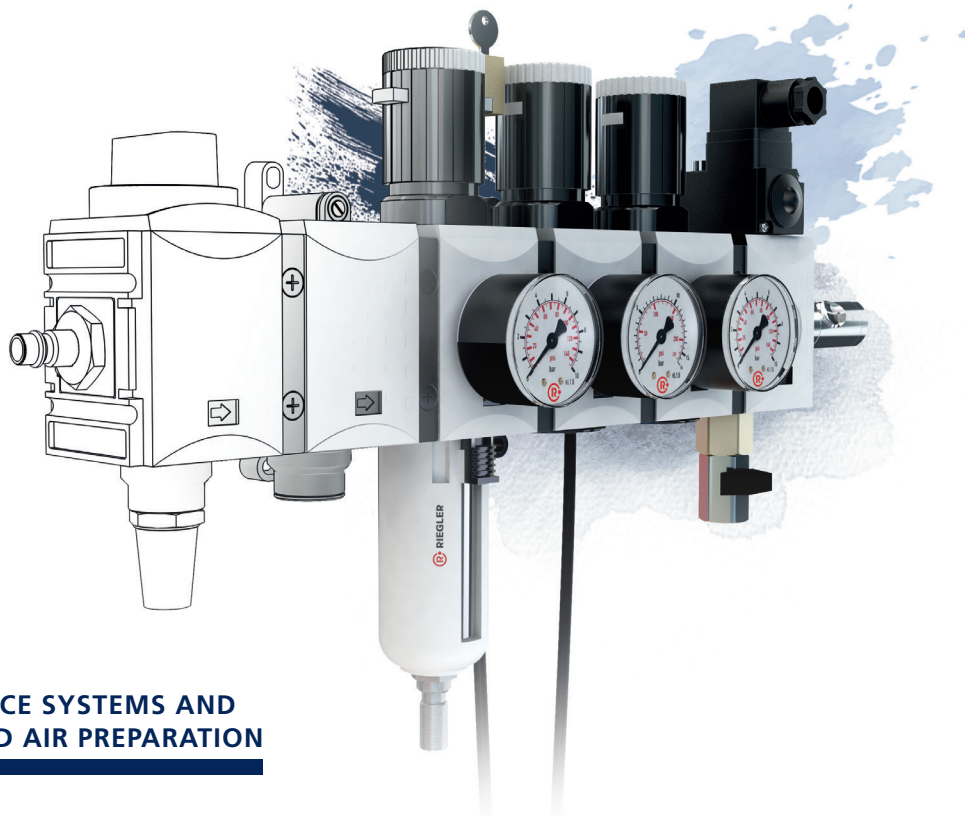
CUSTOMER-SPECIFIC MODULES AND SPECIAL CYLINDERS

Maintenance systems and compressed air provision	5
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CYLINDER SERVICE

Standard pneumatic cylinder ISO 15552, 48-hour service	18
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MAINTENANCE SYSTEMS AND COMPRESSED AIR PREPARATION

INDIVIDUAL MAINTENANCE UNIT

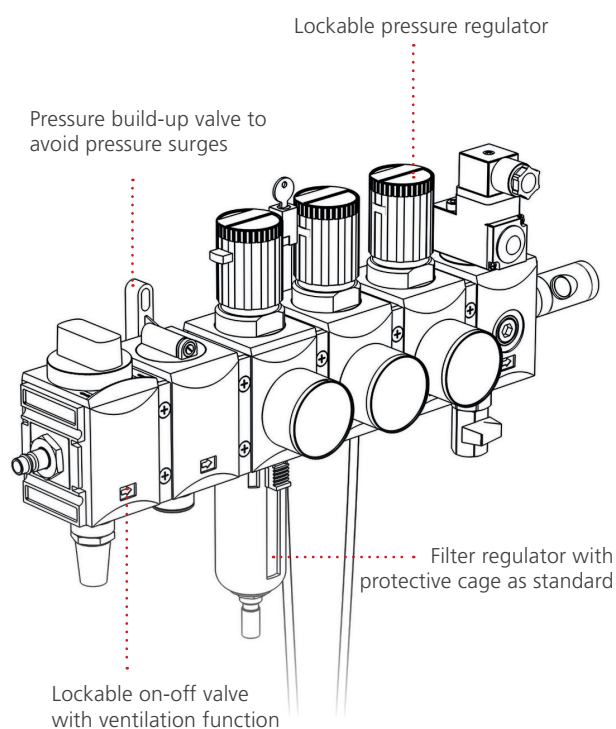
Maintenance units and/or maintenance systems protect pneumatic applications from water and dirt. They also ensure the right level of pressure in the system directly before use. This ensures components have a longer lifespan and are less susceptible to breakdowns.

AREA OF APPLICATION

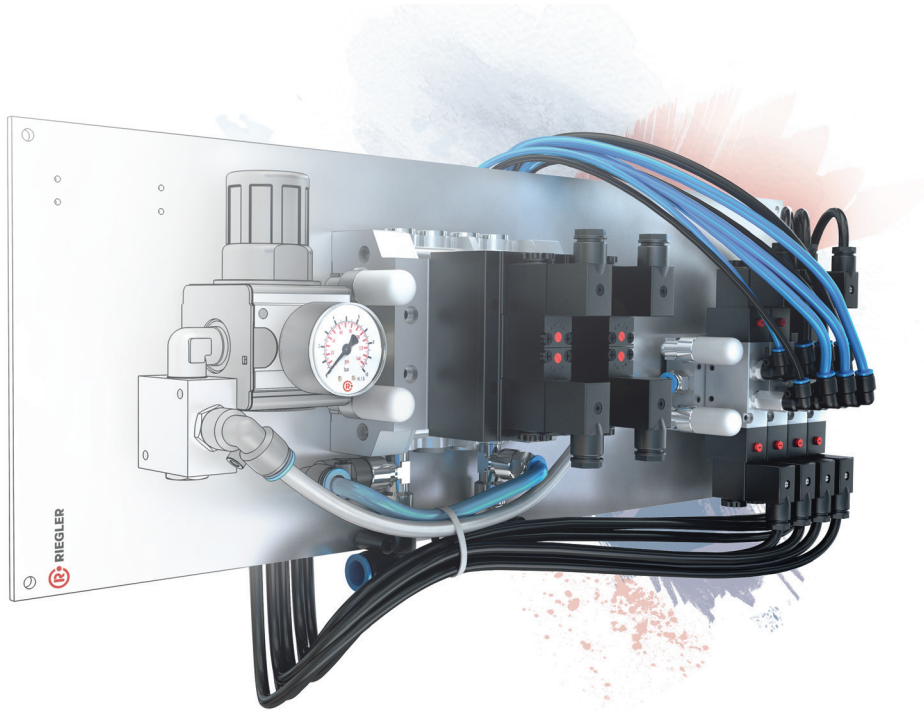
Pneumatic systems / machines / plants

THE RIEGLER SOLUTION

- ➔ Proven standard components
- ➔ Easily integrated into existing systems and easy to expand
- ➔ Individual components meet the requirements of MaschRL and ISO 4414
- ➔ Tamper-proof thanks to lockable pressure regulator and on-off valves
- ➔ Individual components replaceable thanks to block-style structure



100% safe



SWITCH / CONTROL CABINETS AND CONTROL PANELS

ELECTROPNEUMATIC CONTROL UNIT

Pneumatic control panel with components for regulation of large quantities of air that are needed for the inflation of pressure pads.

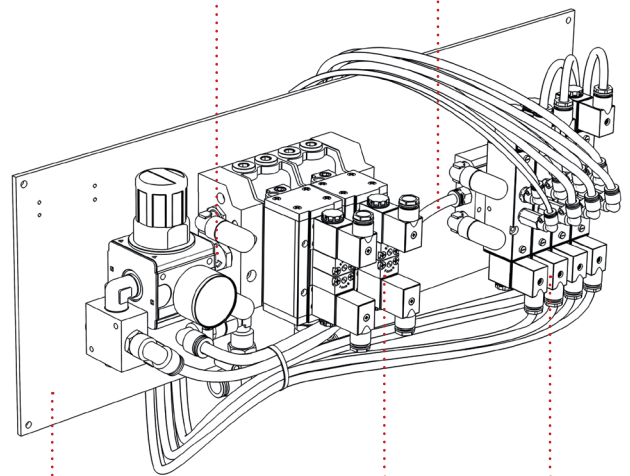
AREA OF APPLICATION

These control units are used in machines for the production of large automotive parts such as dashboards.

THE RIEGLER SOLUTION

- ➔ Service and maintenance-friendly arrangement, clearly laid out, good accessibility of individual components
- ➔ Already fully configured and assembled
- ➔ Economical since development, handling, assembly and storage costs no longer apply
- ➔ Exchangeable thanks to the use of ISO valves
- ➔ Tamper-proof thanks to lockable pressure regulator and on-off valves
- ➔ Individual components replaceable thanks to block-style structure

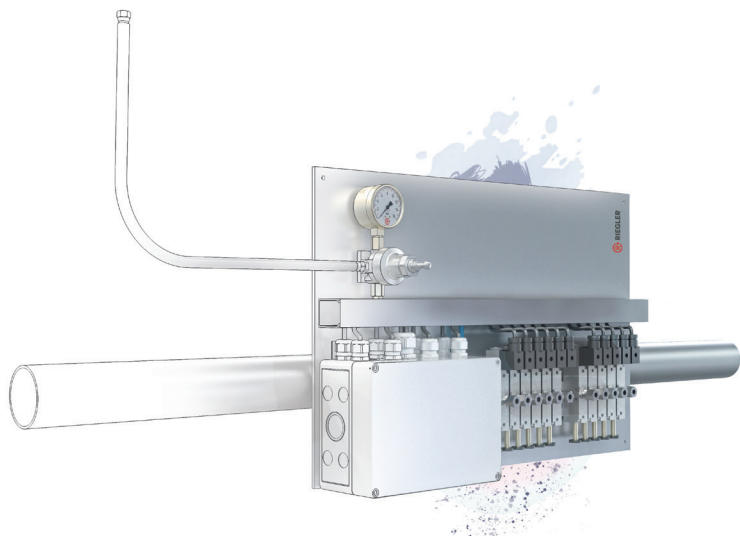
Central compressed air and ventilation connection



Control valve mounted on base plate to save space

Central structure of all pneumatic functions

exceptionally economical



SWITCH / CONTROL CABINETS AND CONTROL PANELS

CONTROL UNIT FOR GASEOUS EXTINGUISHER SYSTEMS

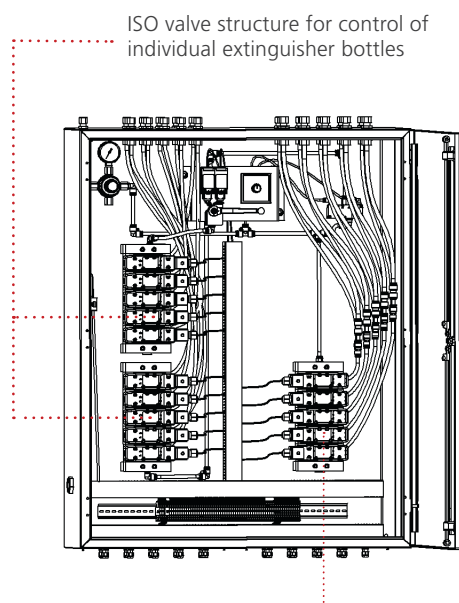
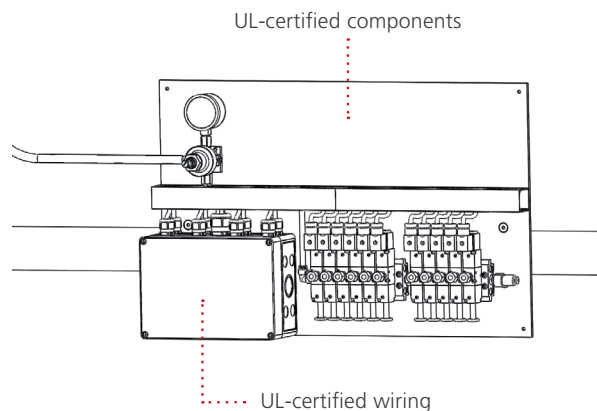
Pneumatic control unit for CO₂ gaseous extinguisher systems installed in the switch cabinet or on an assembly plate.

AREA OF APPLICATION

Gaseous extinguisher systems are used in areas in which conventional extinguishers might damage material assets, for example in EDP areas.

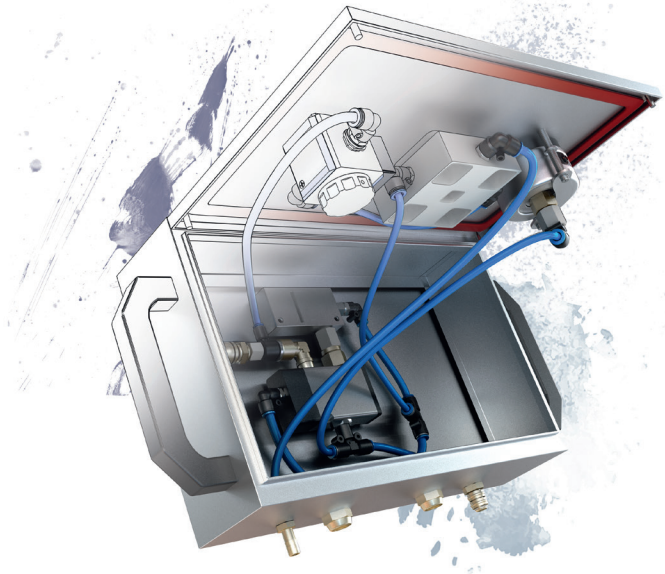
THE RIEGLER SOLUTION

- ➔ Development and construction of the control unit according to customer preferences
- ➔ Variable number of extinguisher zones
- ➔ Support with VDS and/or UL certifications



ISO valves for control of individual extinguisher zones and fanfares

*certified
and approved*



SWITCH / CONTROL CABINETS AND CONTROL PANELS

STAINLESS STEEL CONTROL BOX

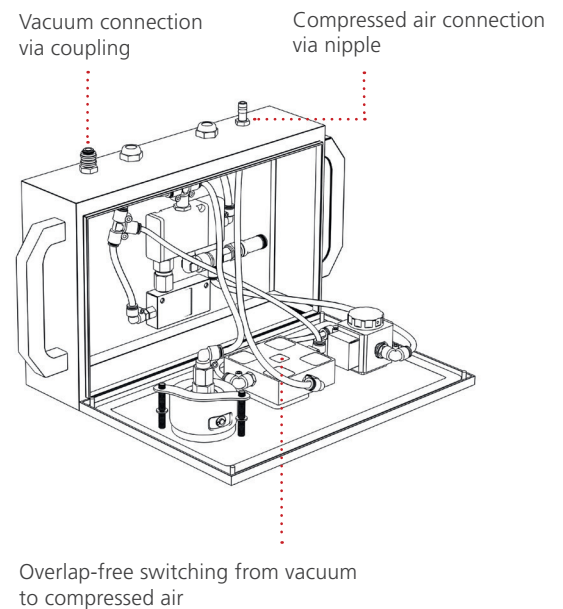
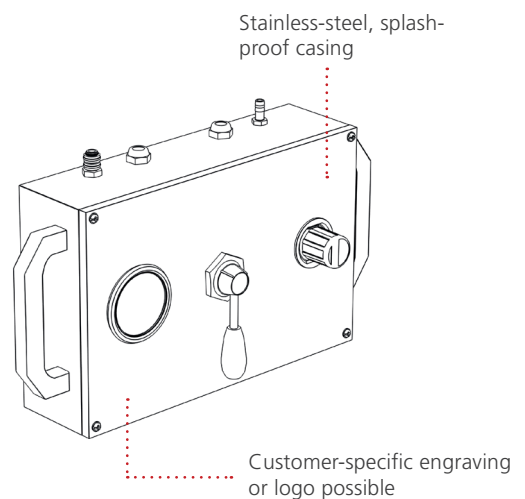
Pneumatic control box with stainless steel casing and the main components of 4/3-way hand lever valve, pressure regulator, 3/2-way control valve, ejector and glycerin manometer

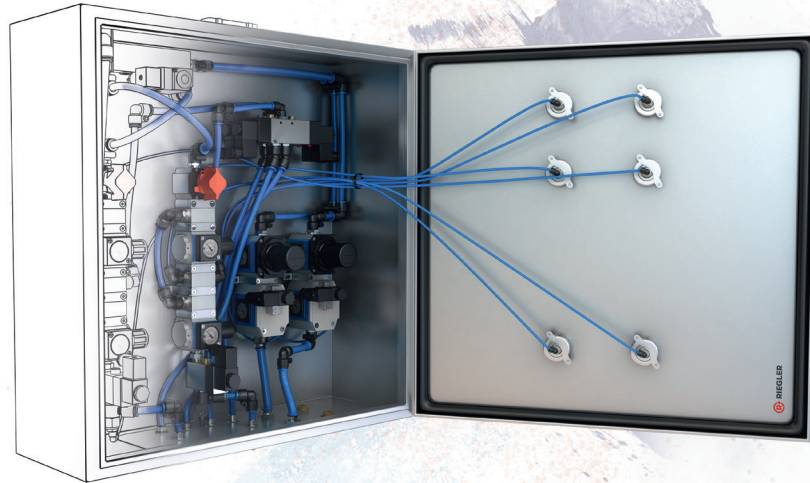
AREA OF APPLICATION

Control of a mobile system for inflating and emptying repair hoses.

THE RIEGLER SOLUTION

- ➔ Reliable compressed air controls without electrical components
- ➔ Robust execution
- ➔ Splash-proof
- ➔ Proven in practice





SWITCH / CONTROL CABINETS AND CONTROL PANELS

PNEUMATIC SWITCH CABINET

Electro-pneumatic controls for a barrel pump system. Designed for air supply and control of various pneumatic cylinders, including barrel ventilation function. All the pressure levels are set via pressure regulators in the switch cabinet and displayed internally and externally via manometers.

AREA OF APPLICATION

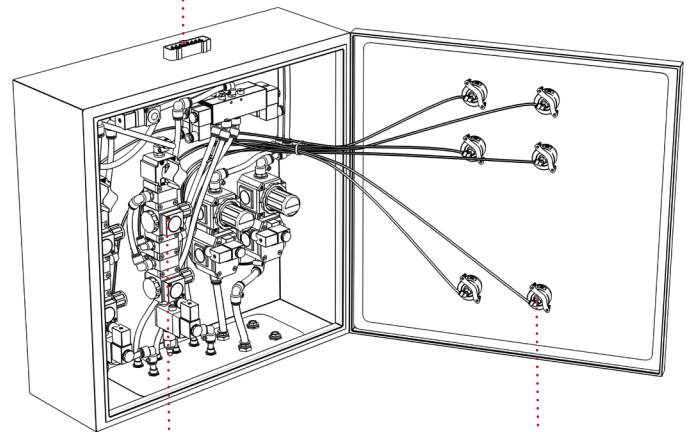
Extraction of adhesives

THE RIEGLER SOLUTION

- ➔ Central electrical connection via Harting plug
- ➔ Ready for immediate connection and use
- ➔ Dual pressure display (inside and outward facing)

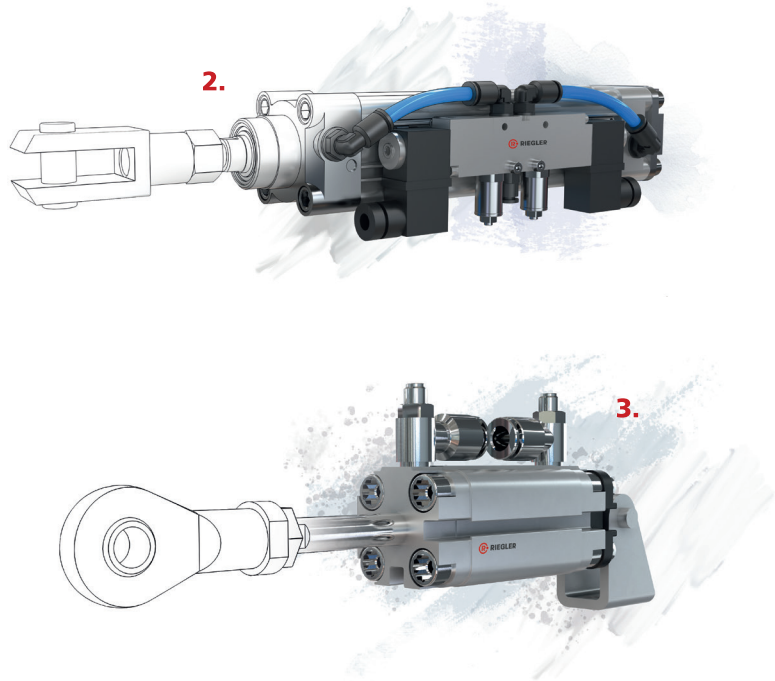
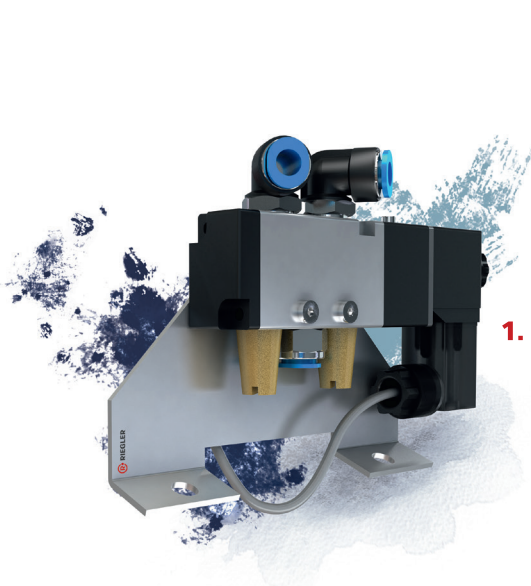
Central connection
via Harting plug

Electrical installation
according to IEC standard



Dual pressure display
inward / outward

reduced cost



PNEUMATICS READY FOR INSTALLATION

CYLINDERS AND VENTILATION UNITS

We put together fully assembled cylinder and valve units from our comprehensive range. These include plug-in connectors, screw fittings and hoses as well as special parts such as brackets, holders or installation plates for affixing valves to cylinders, which we construct and install as required.

AREA OF APPLICATION

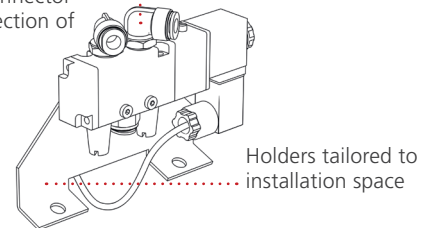
Control of flaps, switches, machine parts, etc.

THE RIEGLER SOLUTION

1. Valve unit
 - ➔ Ready for installation, valve wired as required
2. Cylinder unit
 - ➔ For areas at risk of explosion
ATEX Group II Category 3 GD (Zone 2 / 22)
3. Cylinder unit
 - ➔ Weight-optimized thanks to plastic swivel head
 - ➔ Saving space with shorter compact cylinders
 - ➔ Throttle check valves preadjusted and secured

1. READY-TO-INSTALL VALVE UNIT

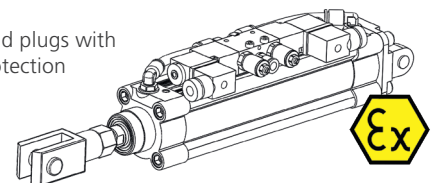
Rapid plug-in connector for simple connection of the hose lines



2. CYLINDER UNIT

For use in areas where there is a risk of explosion

Valve coils and plugs with explosion protection

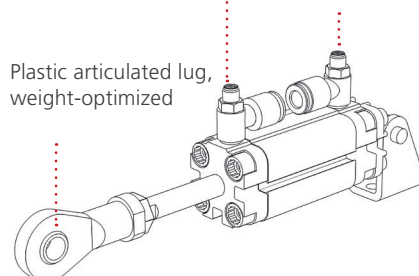


3. CYLINDER UNIT

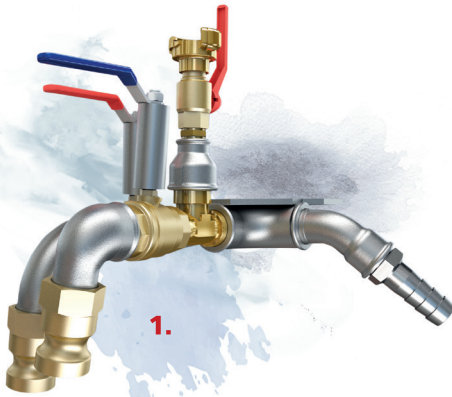
Fully assembled

Throttle check valve preadjusted for speed control

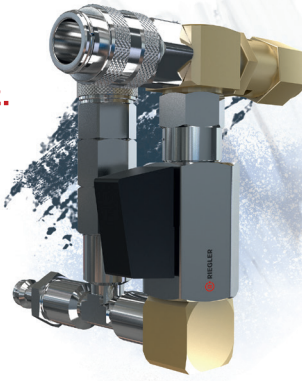
Plastic articulated lug, weight-optimized



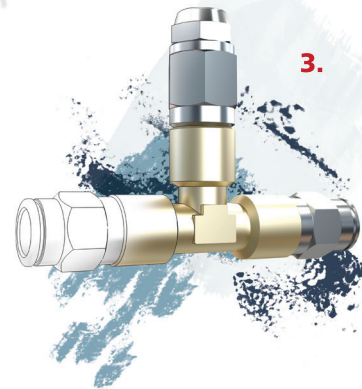
pneumatics ready for installation



2.



3.



COMPRESSED AIR FLOW CONTROL AND AIR DISTRIBUTOR

AIR ARMATURES

Customer-specific armatures, air distributors and compressed air control systems. Consisting, among other things, of fittings, extended nipples, couplings, check valves, magnetic valves, safety valves, ball valves, dirt traps and detachable screw fittings and turned parts.

AREA OF APPLICATION

Individual modules for distribution, provision and control of compressed air

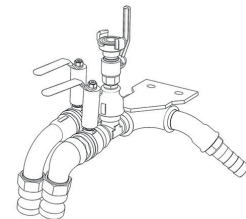
THE RIEGLER SOLUTION

- ➔ Professional connection and adhesion technology
- ➔ Leak-tested according to QS, including test protocols
- ➔ Very economical as ready for immediate use
- ➔ Safety thanks to function guarantee



1. DISTRIBUTING LARGE QUANTITIES OF AIR

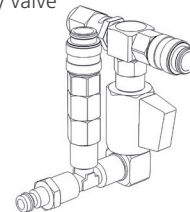
- ➔ Up to 2 inches
- ➔ Stainless steel, cast iron, brass
- ➔ Technically suitable adhesion



2. TEST ADAPTER

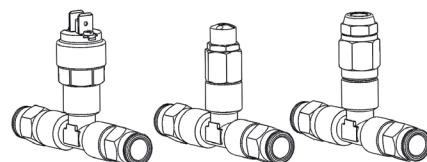
For leakage tests

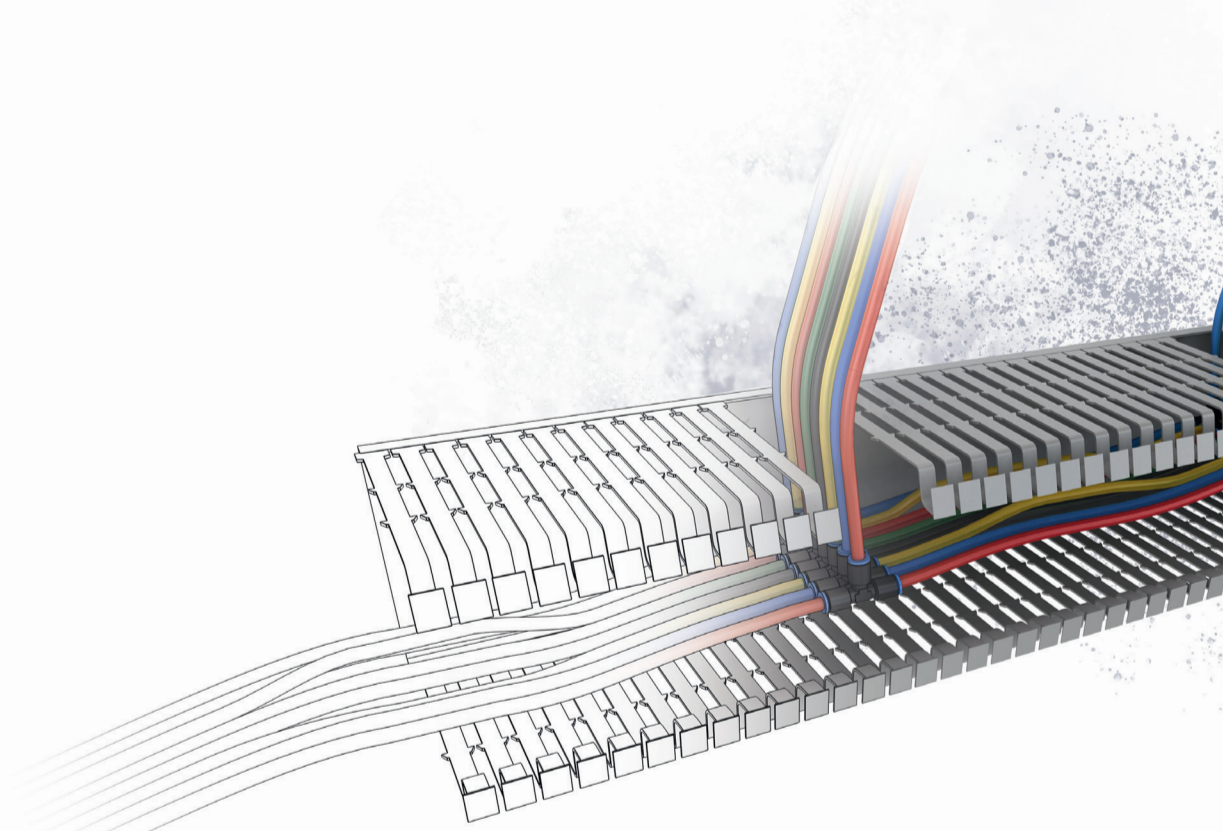
- ➔ Meets the highest demands in terms of leakage protection
- ➔ Minimum leakage rates, demonstrable
- ➔ Safe from excess pressure thanks to CE safety valve



3. HOSE CONNECTOR

- ➔ Incorporation of a discharge valve, pressure switch, etc. in the hose line
- ➔ If required, individual parts can be packaged into sets and delivered punctually to the place of usage





HOSE AND CABLE HARNESSSES

COMPRESSED AIR DISTRIBUTION

RIEGLER plans and manufactures perfectly fitting, complex hose line systems such as hose harnesses or individual hose lines complete with connection armatures and connectors. These are used, among other things, for supplying technical compressed air applications in mechanical engineering.

AREA OF APPLICATION

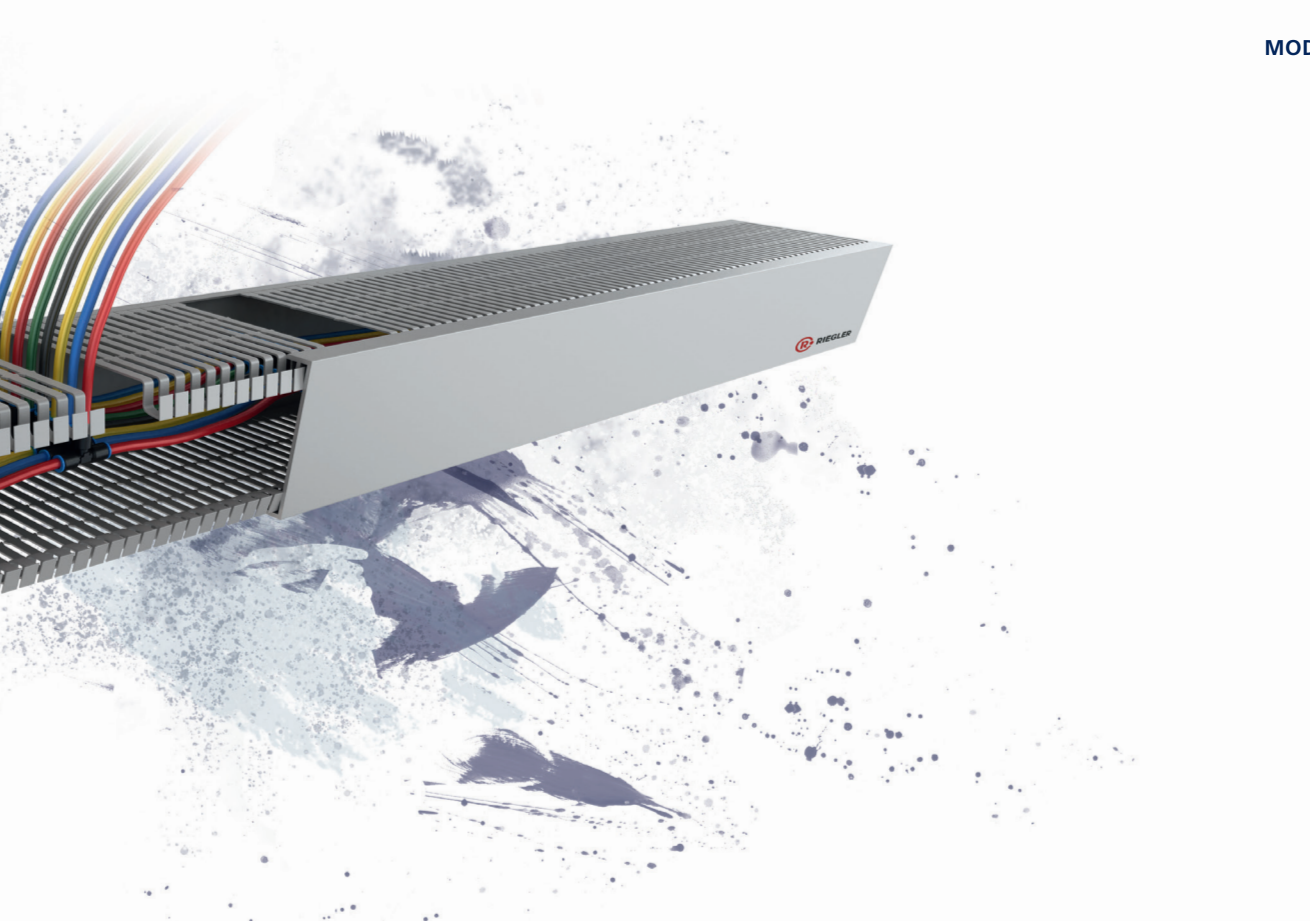
Compressed air supply for various pneumatic cylinders in a drilling and milling center for high-precision plates, including cabling of the associated sensors for checking the cylinder settings.

THE RIEGLER SOLUTION

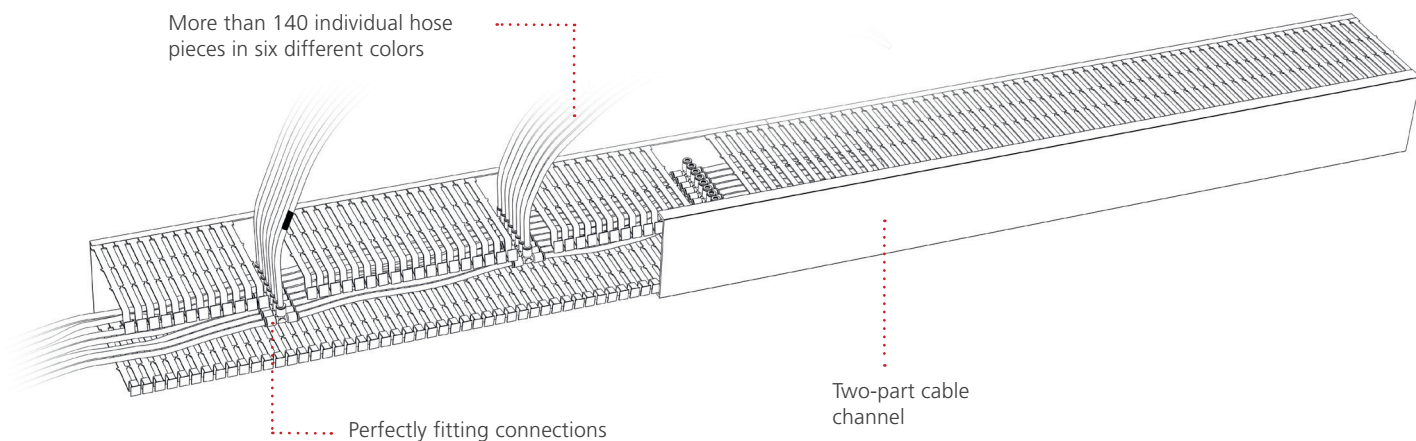
Conception, planning and construction of a millimeter-precision, ready-to-install hose and cable harness approx. three meters in length. Consisting of 140 individual hose pieces in six different colors with a total length of more than 180 meters, with hose connectors and additionally integrated sensor cable.

Delivery takes place with detailed labelling of the individual hoses using sticky labels.





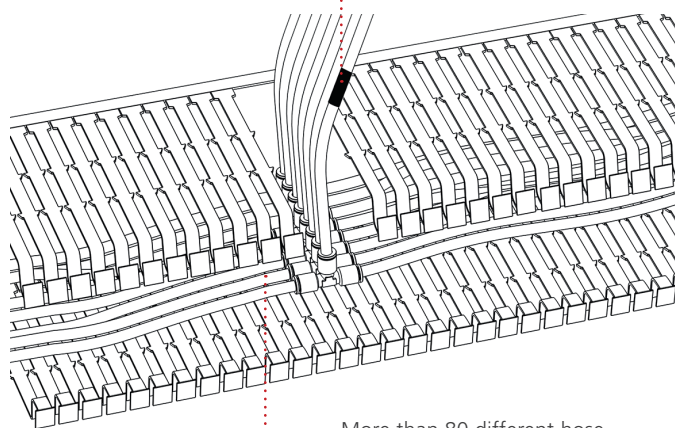
More than 140 individual hose pieces in six different colors



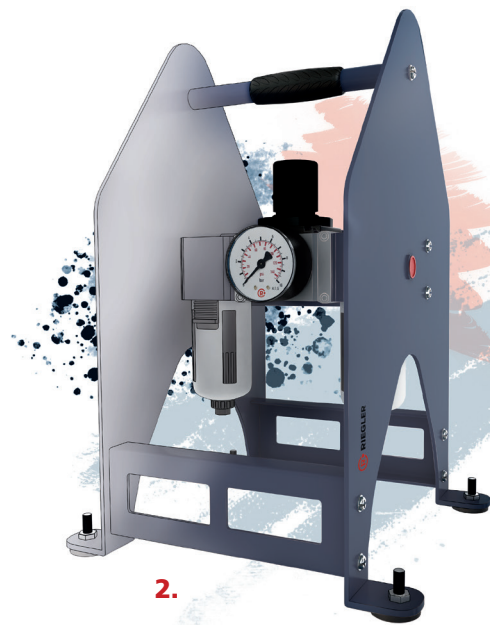
Perfectly fitting connections

Two-part cable channel

Labelling using sticky labels



More than 80 different hose connectors altogether



MOBILE COMPRESSED AIR SUPPLY

MOBILE MAINTENANCE UNITS

Mobile and compact compressed air supply, regardless of the place of use, for preparation of compressed air in various levels of filtration and for setting precise working pressures, if required with additional mist lubricator.

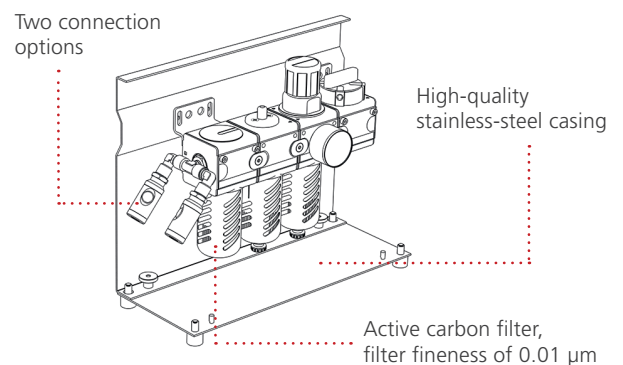
AREA OF APPLICATION

1. Mobile compressed air preparation with fine and active carbon filter for filtering particles up to 0.01 μm and oil vapor molecules out of the air. The device can be used with multiple extraction points, for example for coating applications.
2. Mobile compressed air supply with oils, for example for tools that require filtered and oiled air.

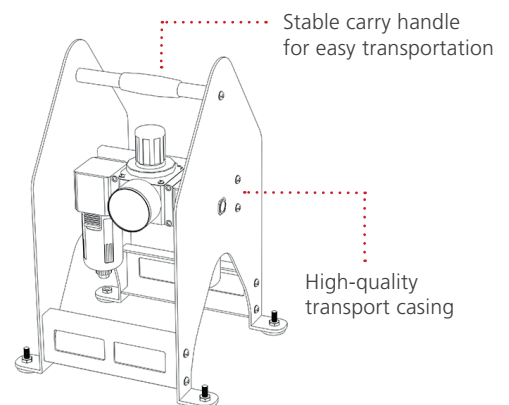
THE RIEGLER SOLUTION

- ➔ Reliable filtering of compressed air
- ➔ Simple and precise regulation of pressures
- ➔ Easy to transport
- ➔ Modifiable for installation in vehicles
- ➔ Various frames depending on designated use and level of filtration

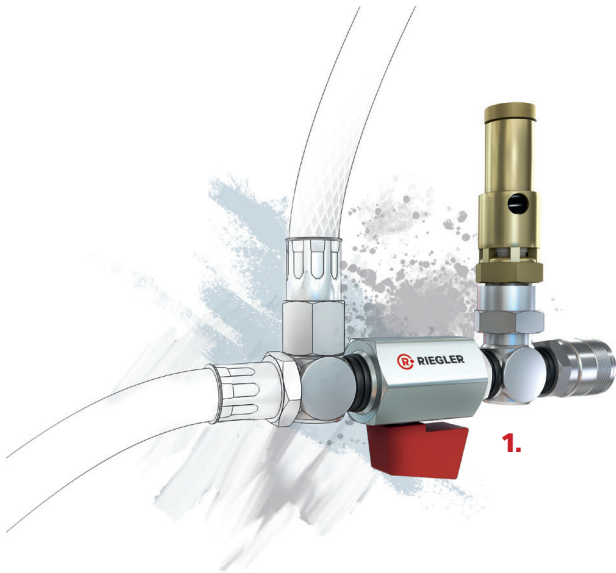
1. MOBILE MAINTENANCE UNIT for example for coating applications



2. MOBILE MAINTENANCE UNIT for example for operation of tools



mobile compressed air supply



LEAKAGE AND FUNCTION TESTING

TESTING FACILITIES

Individually designed testing facilities for a wide variety of uses in the area of leakage and function testing. Here, the excess pressures are created manually with inflation bulb or hand pump. Generally safety valves also protect the measuring devices used against damage.

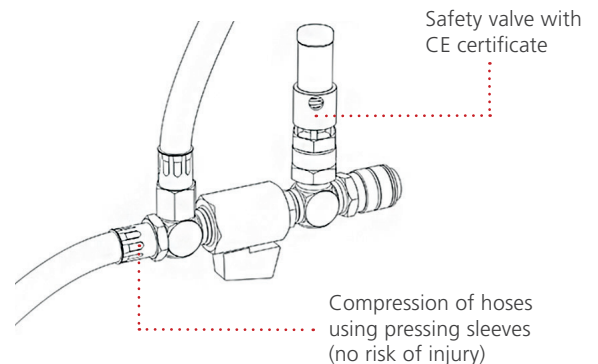
AREA OF APPLICATION

1. Leakage testing of gas and water pipes
2. Testing of pressure relief valves on transformers

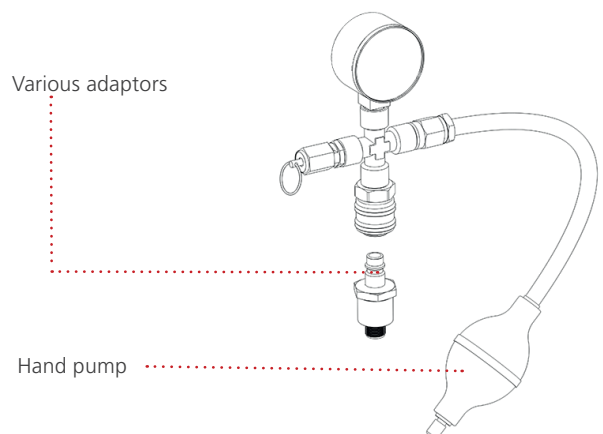
THE RIEGLER SOLUTION

- ➔ 100% testing of individual parts and modules
- ➔ Leakage testing according to customer's testing requirements with high-precision leakage testing devices
- ➔ Various test plugs, hose lines and connections based on the intended use
- ➔ Perfectly tailored for equipping mobile test kits

1. TEST SET FOR LEAKAGE TESTING
of gas and water pipes



2. TESTING SET FOR PRESSURE RELIEF VALVE TESTING
on transformers





SYSTEM SOLUTIONS

COOLANT WATER BLOCK

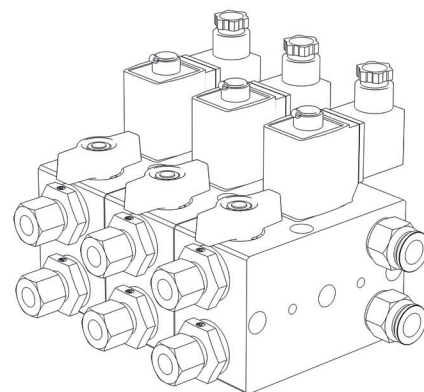
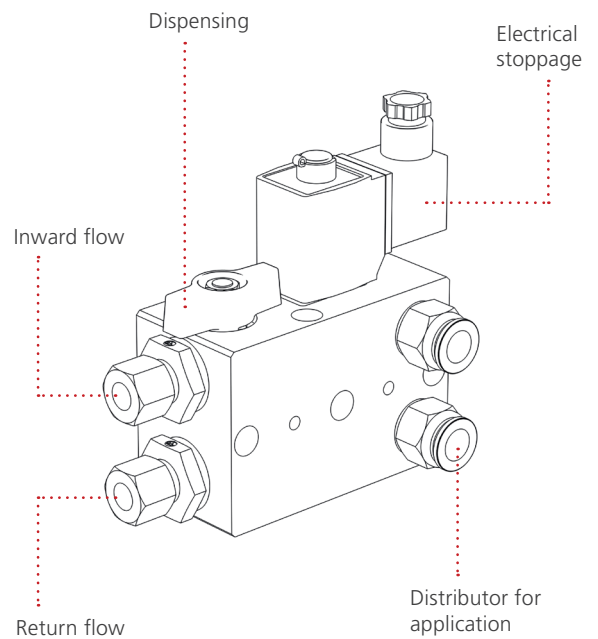
In this joint development with the customer, great emphasis was placed on an integrated structure. The body consists entirely of aluminum; individual components like a separate ball valve, magnetic valve, etc. are not required.

AREA OF APPLICATION

Water distribution for cooling of worm-thread extruders

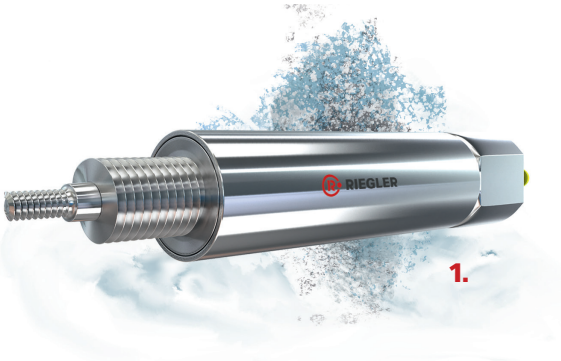
THE RIEGLER SOLUTION

- ➔ Product is fully assembled and tested for functionality
- ➔ Can be connected and used immediately
- ➔ Block can be expanded as required

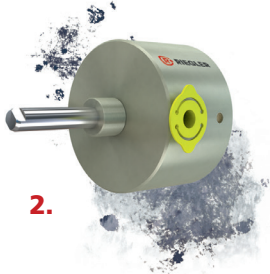


Blocked execution

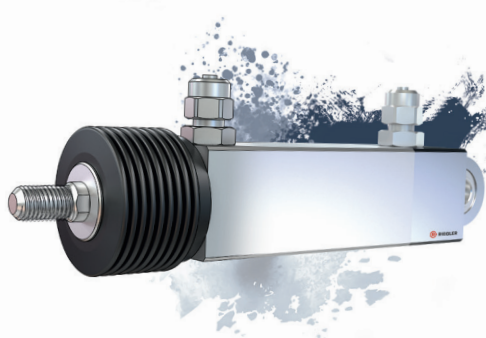




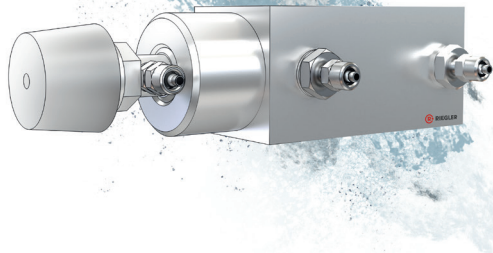
1.



2.



3.



CUSTOMER-SPECIFIC PNEUMATICS

SPECIAL CYLINDERS

RIEGLER special cylinders can be tailored to any specific requirement, and we are also able to create large cylinders with piston diameters up to 320 mm. Without minimum quantities or minimum order values, we can develop and supply your bespoke cylinder quickly and affordably.

AREA OF APPLICATION

Mechanical engineering, process technology, ventilation systems

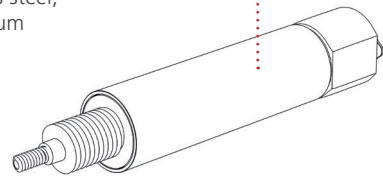
THE RIEGLER SOLUTION

- ➔ Piston diameters up to 320 mm
- ➔ In various materials including steel, stainless steel, aluminum and brass
- ➔ Special versions such as tandem and multi-position cylinders
- ➔ Construction according to customer specifications



1. HIGH-PRESSURE CYLINDER with integrated vent valve

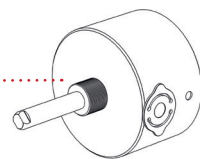
Various materials: steel, stainless steel, brass, aluminum



2. SCREW-IN CYLINDERS

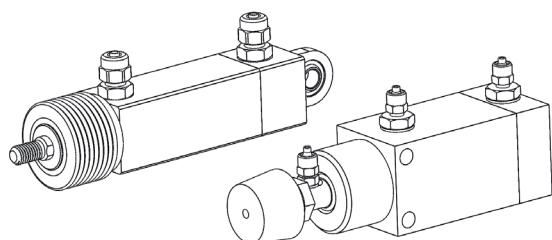
Single-acting

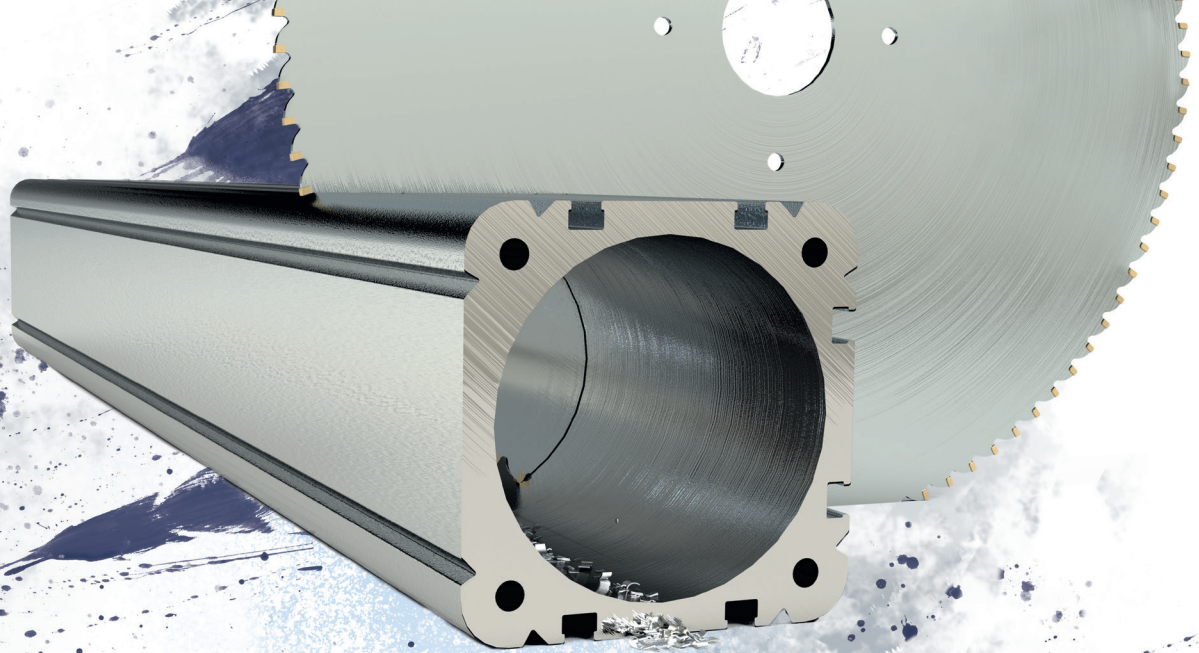
Split piston rod for secure hold on the piston



3. CLAMPING AND SCANNING CYLINDERS depending on the application, with features such as:

- ➔ End piece with ball and socket joint
- ➔ Coating for aggressive environmental influences
- ➔ Ventilated bellows at the head end





CYLINDER SERVICE
INDIVIDUAL • FAST • FLEXIBLE

STANDARD PNEUMATIC CYLINDER ISO 15552

You need a replacement cylinder, a sample cylinder or a small-batch series at short notice? We make it possible!

- Piston diameters 32 – 125 mm
- Strokes 25 – 1500 mm, staggered in millimeters

delivery in 3 – 4 days



The RIEGLER team looks forward to receiving your call or e-mail:

+49 7125 9497- 8320 • vertrieb@riegler.de

PRECISELY TAILORED TO YOUR NEEDS.

Discover our solution competence for yourself. Possible variations:

- With extended piston rod
- With full-length piston rod
- With stainless steel piston rod
- With FKM sealing for high temperature areas up to +150 °C
- Without magnet



SUCCESS IS MEASURABLE.

65,000
STORAGE AREAS

11,440
WORKING HOURS IN THE
YEAR FOR INDIVIDUAL
SYSTEM SOLUTIONS

50 %
PROPORTION OF
ELECTRONIC
ORDERS

150
EMPLOYEES

20
OFFICES ABROAD

97 %
RECOMMEN-
DATION RATE

200,000
DELIVERIES A YEAR

16,824
CUSTOMERS
WORLDWIDE, AND
MORE EVERY DAY

SALES

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Internet www.riegler.de/engineering

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FAX +49 7125 9497-95

Mon - Thurs: 7:30 a.m. - 5:00 p.m. and
Fri: 7:30 a.m. - 3:00 p.m

