QUICK CONNECT Installation and user manual



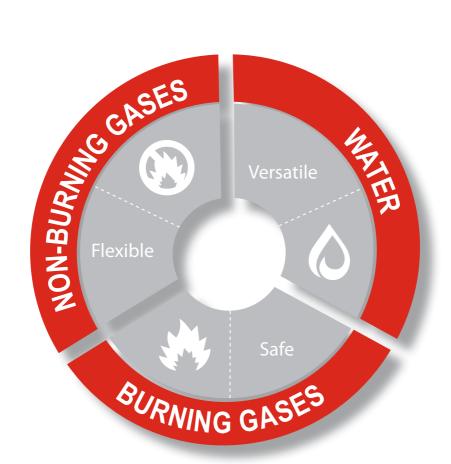




This is an installations guide for Quick Connect Basic. Quick Connect is the new, innovative and flexible lab solution.

Quick Connect is based on the concept plug and play and easy to install. BROEN-LAB has furthermore made a drilling template which makes it easier to drill the mounting holes for the installation of Quick Connect. **For futher information see page 23.**

Before installation please read the chapter, Purity on page 22.





QUICK CONNECT Table of Contents

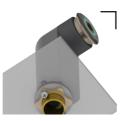
PANEL MOUNTED



BUILT-IN MOUNTED



BENCH MOUNTED



EXPOSED PIPE

CONCEALED PIPE



SUSPENDED MOUNTED



DISC MOUNTED



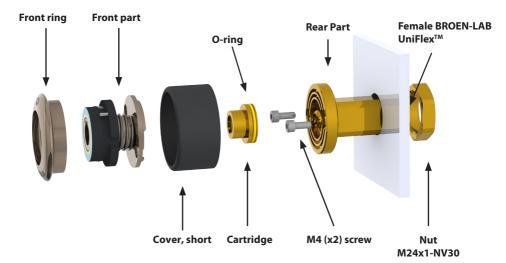
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QUICK CONNECT Panel mounted

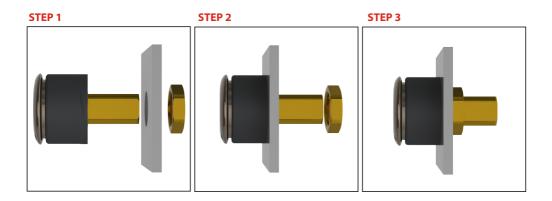


- Panel thickness up to 26 mm
- Temperature range: 0-90°C
- Max. working pressure: 16 bar/232 psi
- Inlet: BROEN-LAB UniFlex[™]
- Materials with media contact
 Metals: Brass
 Sealing:
 Nitrile (NBR) (NON (FKM) (CERM)

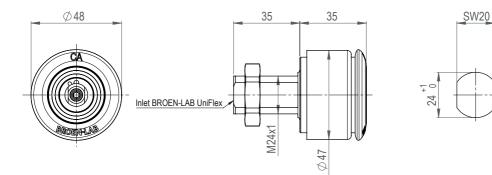


Mounting

Tool: A wrench key



Datasheet



All measurements are in **mm**

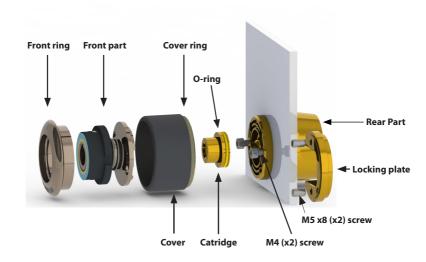
QUICK CONNECT Built-in





CA

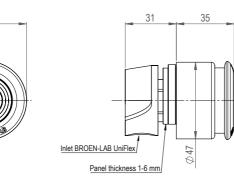
- Panel thickness 1-6 mm
- Temperature range: 0-90°C
- Max. working pressure: 16 bar/232 psi
- Inlet: Female BROEN-LAB UniFlex[™]
- Materials with media contact
 Metals: Brass
 Sealing:
 Nitrile (NBR) (NITON (FKM) (CERD)

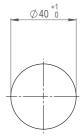




Datasheet

Ø48



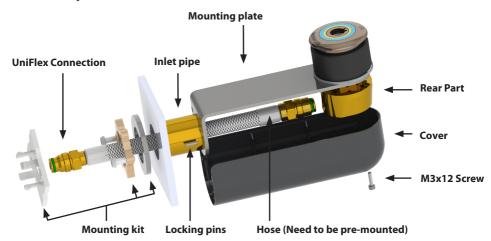


All measurements are in mm

QUICK CONNECT Bench mounted



- Panel thickness 30-90 mm
- Temperature range: 0-90°C
- Max. working pressure: 16 bar/232 psi
- Inlet: BROEN-LAB UniFlex[™]
- Materials with media contact Metals: Brass Sealing:
 Nitrile (NBR) NITON (FKM) C EPDM

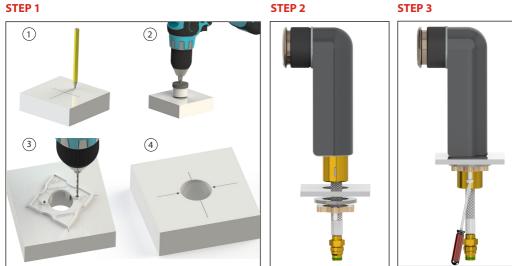


Mounting

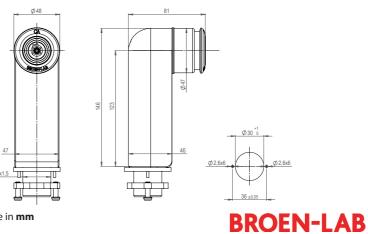
Tool: A Phillips screwdriver, size 2



STEP 1



Datasheet



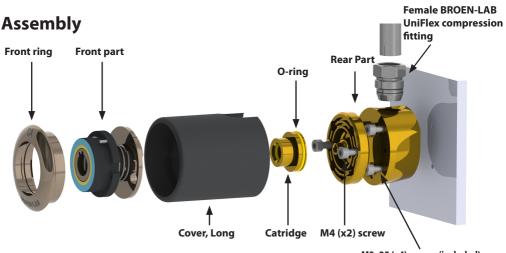
All measurements are in mm

M30x1,5

QUICK CONNECT Exposed pipe



- Temperature range: 0-90°C
- Max. working pressure: 16 bar/232 psi
- Only for plates where threads can be drilled.
- Inlet: BROEN-LAB UniFlex[™]
- Materials with media contact
 Metals: Brass
 Sealing:
 Nitrile (NBR) (NUTON (FKM) (CEPDM)



Mounting

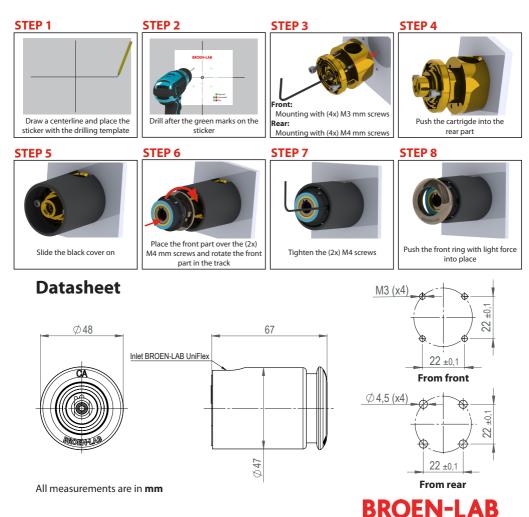
Tool: Allen key for M3x25 (x4) screws Allen key for M4 (x2) screws

Front: Use (4x) M3x25 mounting screws (included) *Rear:* Use (4x) M4x25 screws (included)

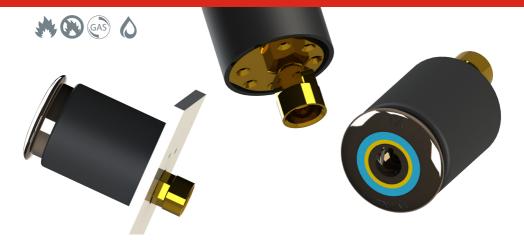


Nice to know!

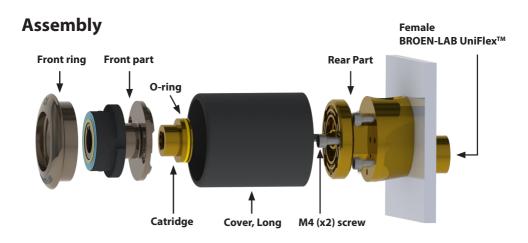
Exposed is delivered assembled and has to be disassembled before mounting - Follow the mounting backwards



QUICK CONNECT Concealed pipe



- Temperature range: 0-90°C
- Max. working pressure: 16 bar/232 psi
- For furniture without space for tightening behind the wall
- Inlet: BROEN-LAB UniFlex[™]
- Materials with media contact
 Metals: Brass
 Sealing:
 Nitrile (NBR) (NITON (FKM) (CERD)



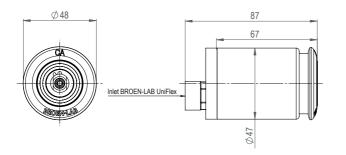
Nice to know! Concealed is delivered assembled and has to be disassembled before mounting - Follow the mounting backwards

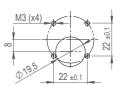
Mounting

Tool: Allen key for (4x) M3x25 screws Allen key for (2x) M4 screws (front mounting and media changing- included)



Datasheet



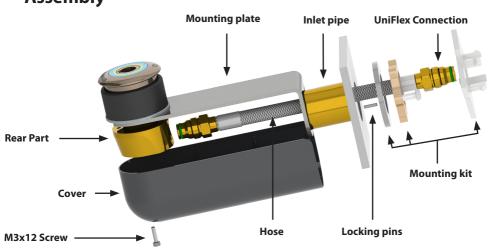


All measurements are in **mm**

QUICK CONNECT Suspended mounted



- Panel thickness 30-90 mm
- Temperature range: 0-90°C
- Max. working pressure: 16 bar/232 psi
- Inlet: BROEN-LAB UniFlex[™]
 - Materials with media contact
 Metals: Brass
 Sealing:
 Nitrile (NBR) (NITON (FKM) (CERD)

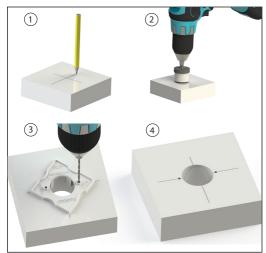


Mounting

Tool: A Phillips screwdriver, size 2

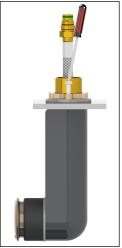


STEP 1

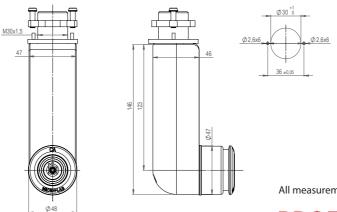




STEP 3



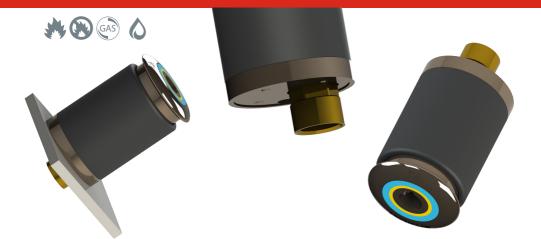
Datasheet



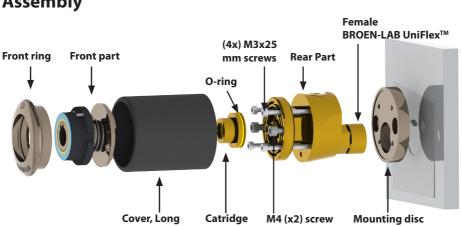
All measurements are in mm



QUICK CONNECT Disc mounted



- For porous walls
- Temperature range: 0-90°C
- Front mounting in soft material where threads not can be drilled
- Inlet: BROEN-LAB UniFlex[™]/
- Materials with media contact Metals: Brass Sealing: 👋 Nitrile (NBR) 🛞 VITON (FKM) 🛆 EPDM



Nice to know! Disc mounted is delivered assembled and has to be disassembled before mounting - Follow the mounting backwards

Mounting

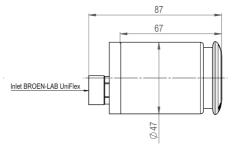
Tool: Tool for screws to mounting of the disc (not included) An allen key for the (2x) M4 mm and (4x) M3 x25 mm screws (included)

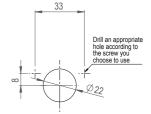


Datasheet

All measurements are in mm







2,5 mm

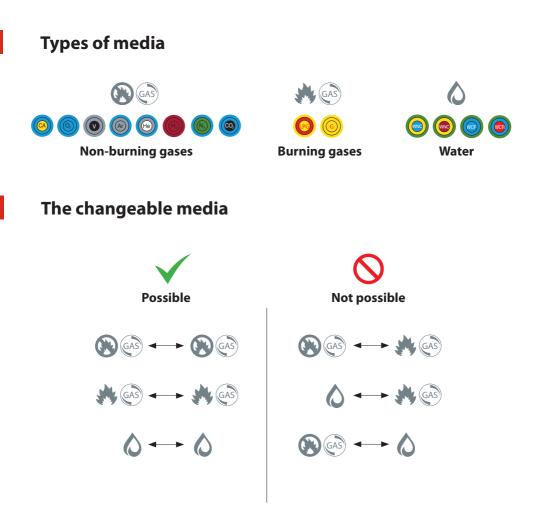
3 mm





QUICK CONNECT Media changing

With Quick Connect is it possible to make last minute changes. It is important only to change between the gases within the same category. There are 3 categories: Non-burning gases, burning gases and water.

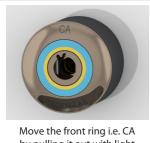


Media changing

Tool: An allen key for (2x) M4 screws (included)



STEP 1



by pulling it out with light force

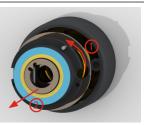
STEP 2



Loosen the (2x) M4 mm screws - only a little bit.

STEP 5

STEP 3



 Rotate the front part in the slot
 Pull the front part out

STEP 6

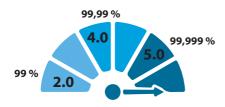




Tighten the (2x) M4 mm screws



QUICK CONNECT Purity and safety



2.0, 4.0 and 5.0 indicate the purity of the gases.

Purity 5.0 in use

When changing the outlet

To maintain a purity of 5.0, BROEN-LAB recommends to purge the system in 30 sec. before usage, when you change the outlet.

Safety instructions

Handling of technical gases requires knowledge of the subject, operation instructions and special safety measures. Always check national and local laws, regulations and procedures regarding the installation and use of this type of equipment.

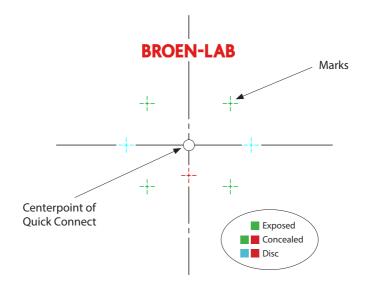
- Changes or modifications are not allowed to be made to the equipment without prior approval from BROEN-LAB.
- Improper handling or use can involve risks for the user and other persons as well as damage of the equipment.
- The equipment can only be used for the gas type it was manufactured and labelled for. Change can be made prior to start of use, provided that the new media is listed in the data sheet, or BROEN-LAB has approved the new media.
- Observe the maximum pressure & temperature ranges.
- The equipment cannot be used for gases in the liquid phase.

- The equipment must not be exposed to impact, vibrations or other mechanical forces that can damage the equipment.
- The equipment is designed for use in laboratories. The equipment is not designed for installing where there is a possibility of exposure to aggressive media.
- By installation avoid oil and grease contamination (Fire or explosion hazard).
- It is recommended to use a proper leak detection fluid or similar to check for leak when installing and using the Quick Connect.
- These valves do not contain a relief valve. In case of failure, the outlet pressure may rise above the adjusted value. Any equipment connected to the equipment outlet has to be protected against over-pressure.

QUICK CONNECT Drilling template

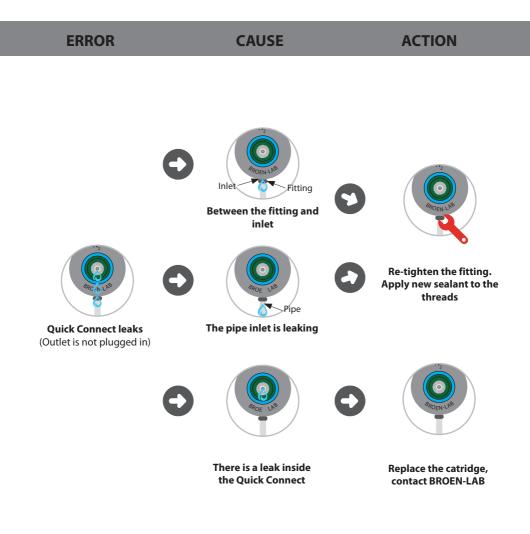
BROEN-LAB has created a sticker, which makes it easier to drill the holes for mounting of the Quick Connect. This sticker is useful for Exposed pipe mounted, Concealed pipe mounted and Disc mounted Quick Connects.

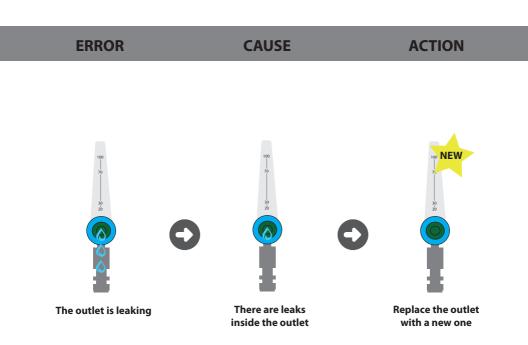
Each version of the Quick Connect has it is own colour on the sticker.





QUICK CONNECT Trouble shooting guide



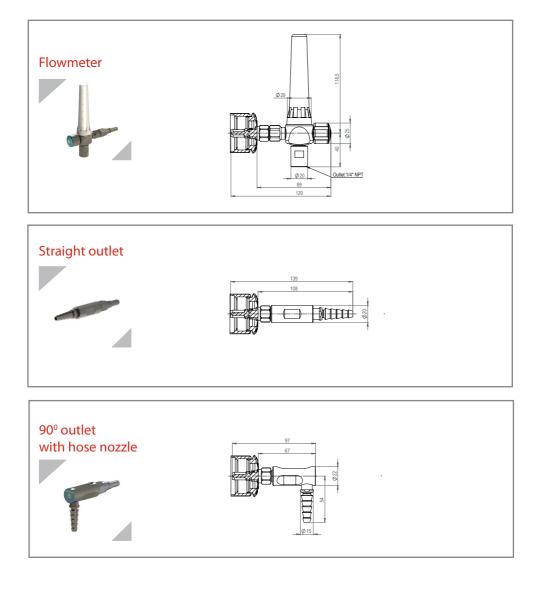




QUICK CONNECT Accessories and datasheets

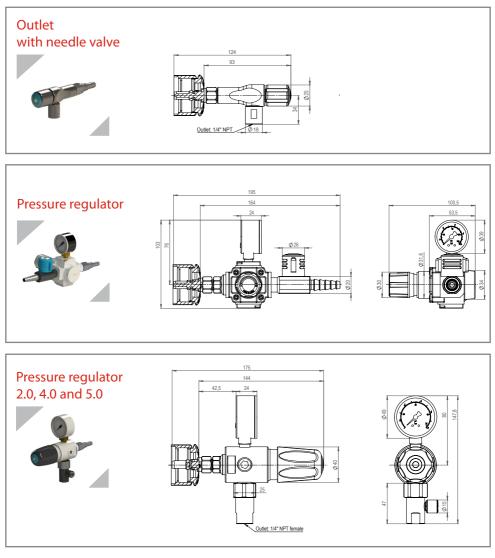
Accessories

Datasheets



Accessories

Datasheets



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BROEN-LAB A/S ISO 9001 certification

In September 1991 BROEN-LAB A/S was certified according to ISO 9001 as one of the first Danish companies. The certification was carried out by Bureau Veritas, Denmark, for our Danish site in Assens. The quality management system of BROEN-LAB A/S now complies with detailed specifications laid down by the internationally acknowledged EN ISO 9001:2008. This certification will further contribute to reputation for quality and reliability of BROEN-LAB A/S.

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