

**BROEN-LAB  
QUICK CONNECT  
WITH BUILD-IN  
FLOWREGULATION  
FOR 5.0 GASES**






**BROEN-LAB QUICK CONNECT**

**BROEN-LAB QUICK CONNECT**

**BROEN-LAB**

# BROEN-LAB QUICK CONNECT

## Table of contents

Table of Contents		2
Advantages		2
Product Range		3
Outlets		4
Technical Specifications		5
Accessories		5
Mounting Information		6-7

## BROEN-LAB QUICK CONNECT

### Advantages

#### Advantages for end users:

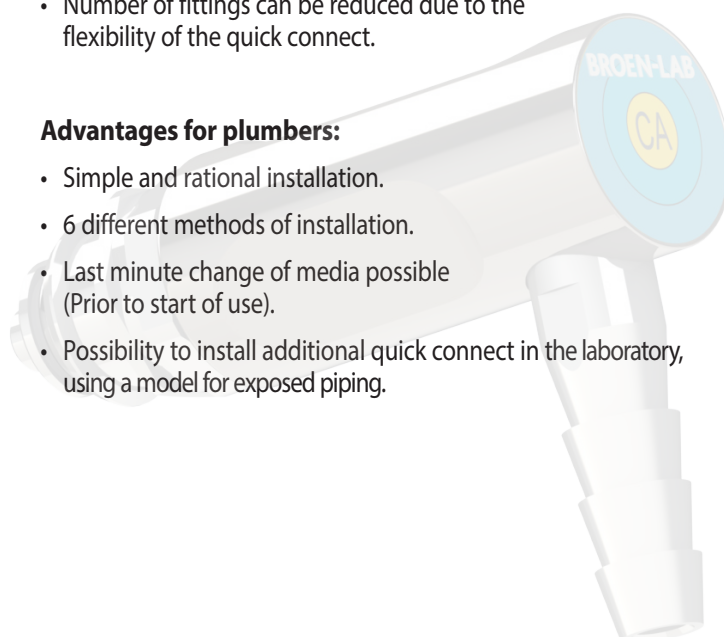
- Flexible and compact design increases size of "working area".
- Reduced downtime.
- Innovative and compact design.
- Combined flow valve and quick connect.
- Key system protects against undesired mix of media, 11 media keys are available.
- Clear media indication.
- Possibility of attaching additional equipment: - flow meters, pressure regulators, etc.
- Non-return valve in outlets protects against contamination of equipment.
- Valve is "locked" with no plug inserted.
- Integrated parking position.
- O-ring which seals outlet and quick connect is replaceable without disassembling the quick connect.

#### Advantages for architects & furniture manufacturers:

- Increased flexibility in laboratory design.
- Last minute determination of media possible.
- Number of fittings can be reduced due to the flexibility of the quick connect.

#### Advantages for plumbers:

- Simple and rational installation.
- 6 different methods of installation.
- Last minute change of media possible (Prior to start of use).
- Possibility to install additional quick connect in the laboratory, using a model for exposed piping.



# BROEN-LAB QUICK CONNECT

## Product range

### Built-in

No. 070XXX1



Inlet from rear:  
1/4" NPT female

See dimensions on page 6

### Wall/panel mounting, concealed piping

No. 070XXX2



Inlet from rear:  
1/4" NPT female

See dimensions on page 6

### Wall/panel mounting, exposed piping

No. 070XXX3



Side inlet:  
1/4" NPT female

See dimensions on page 6

### Bench/suspended mounting

No. 070XXX4



Suspended mounting

Inlet:  
1/4" NPT female

See dimensions on page 6

Description		Compressed Air	Low Vacuum	Oxygen	Nitrogen	Carbon Dioxide	Hydrogen	Argon	Helium
Label: According to standard EN13792:2002									
Label: American recommendation									
	Standard EN13792:2002	0700201	0700301	0700401	0700501	0700601	0700701	0700801	0700901
	American recommendation	0700251	0700351	0700451	0700551	0700651	0700751	0700851	0700951
	Standard EN13792:2002	0700202	0700302	0700402	0700502	0700602	0700702	0700802	0700902
	American recommendation	0700252	0700352	0700452	0700552	0700652	0700752	0700852	0700952
	Standard EN13792:2002	0700203	0700303	0700403	0700503	0700603	0700703	0700803	0700903
	American recommendation	0700253	0700353	0700453	0700553	0700653	0700753	0700853	0700953
	Standard EN13792:2002	0700204	0700304	0700404	0700504	0700604	0700704	0700804	0700904
	American recommendation	0700254	0700354	0700454	0700554	0700654	0700754	0700854	0700954

3 additional media options available on request.

BROEN-LAB QUICK CONNECT

Outlets

90° outlet with serrated hose nozzle  
(incl. non-return valve)  
No. 07XXX00



See dimensions on page 7

90° outlet with 1/4" NPT female  
(incl. non-return valve)  
No. 07XXX10



1/4" NPT female

See dimensions on page 7

Straight outlet  
(incl. non-return valve)  
No. 070XX00



1/4" NPT male

See dimensions on page 7

Flow meter  
(incl. non-return valve)  
No. 07XXX3Y



See dimensions on page 7

Pressure regulator  
(incl. non-return valve)  
No. 07XXX2ZSP



See dimensions on page 9

Flow meter

Letter Y in part number designates flow range:






















Y	3	2
flow	0-5	0-15
range	l/min	l/min

Pressure regulator

Letter Z in part number designates pressure range:

Z	3	4
press.	0-3	0-10 bar/
range	bar	0-500 kPa

Pressure regulator with a pressure range of 0-1 bar/ 0-100kPa (0-14.5psi) is available on request

Description		Compressed Air	Low Vacuum	Oxygen	Nitrogen	Carbon Dioxide	Hydrogen	Argon	Helium
Model	Label: According to standard EN13792:2002								
	Label: American recommendation								
	Standard EN13792:2002	0705100	0705200	0705300	0705400	0705500	0705600	0705700	0705800
	American recommendation	0755100	0755200	0755300	0755400	0755500	0755600	0755700	0755800
	Standard EN13792:2002	0705110	0705210	0705310	0705410	0705510	0705610	0705710	0705810
	American recommendation	0755110	0755210	0755310	0755410	0755510	0755610	0755710	0755810
		0707100	0707200	0707300	0707400	0707500	0707600	0707700	0707800
	Standard EN13792:2002	070513Y	-	070533Y	070543Y	070553Y	070563Y	070573Y	070583Y
	American recommendation	075513Y	-	075533Y	075543Y	075553Y	075563Y	075573Y	075583Y
	Standard EN13792:2002	070512ZSP	-	070532ZSP	070542ZSP	070552ZSP	070562ZSP	070572ZSP	070582ZSP
	American recommendation	075512ZSP	-	075532ZSP	075542ZSP	075552ZSP	075562ZSP	075572ZSP	075582ZSP

3 additional media options available on request.

# BROEN-LAB QUICK CONNECT

## Technical specifications

### Quick connect

Operating pressure: -1 bar to 10 bar  
-14.5 psi to 145 psi

Purity: 5.0 (Only obtainable if system is purged when reconnected)

Test pressure: 1.5 x operating pressure

Operating temperature: 0°C to 60°C.  
23°F to 140°F

Standard media : Inactive gases  
(Air, Vac, O<sub>2</sub>, N<sub>2</sub>, CO<sub>2</sub>, H<sub>2</sub>, Ar & He)

Non-standard media must be confirmed by BROEN-LAB.

Inlet: 1/4" NPT female

Materials in media contact: Stainless steel, brass & PVDF

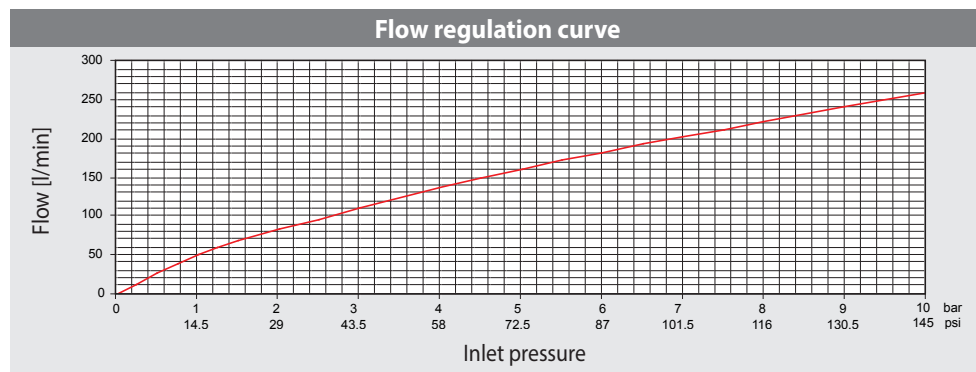
Gaskets: FKM

External parts: Stainless steel, chemical nickel plated brass & EPDM rubber

### Outlets

Materials: Stainless steel and chemical nickel plated brass






Gaskets: FKM






Gas used in test: Compressed Air.  
Model used in test: Quick Connect with outlet No. 07 051.00.

# BROEN-LAB QUICK CONNECT

## Accessories

Description	Characteristics	Product No.
<b>BROEN-LAB UniFlex™ elbow fitting</b> 	<b>Material:</b> Brass <b>Connections:</b> Male 1/4"NPT - Female BROEN-LAB UniFlex™	02101270
<b>BROEN-LAB UniFlex™ Tee fitting</b> 	<b>Material:</b> Brass <b>Connections:</b> Male 1/4"NPT - 2 x Female BROEN-LAB UniFlex™	02101220
<b>BROEN-LAB UniFlex™ straight fitting</b> 	<b>Material:</b> Brass <b>Connections:</b> Male 1/4"NPT - Female BROEN-LAB UniFlex™	02550220
<b>BROEN-LAB UniFlex™ hose</b> 	<b>Material:</b> Braiding: Stainless Steel Plastic: Teflon (PTFE)**** Rubber: FKM**** Metal: Brass <b>Connections:</b> OD10mm-UniFlex™ ..... OD12mm-UniFlex™ ..... OD15mm-UniFlex™ ..... Union nut G1/2-UniFlex™ ..... UniFlex™-UniFlex™ .....	93R1020xxxx*** 93R1220xxxx 93R1520xxxx 93R4020xxxx 93R2020xxxx
<b>BROEN-LAB Flexible Stainless Steel pipe</b> 	<b>Material:</b> Braiding: Stainless Steel Metal: Stainless Steel <b>Connections:</b> Male 1/4"NPT-OD10mm OD10mm-OD10mm .....	93S7080xxxx*** 93S8080xxxx

Description	Characteristics	Product No. (all media)
<b>Swagelok* straight tube fitting</b> 	<b>Tube diameter**:</b> 3 mm: ..... 4 mm: ..... 6 mm: ..... 8 mm: ..... 1/4": ..... 1/8": ..... <b>Material:</b> Stainless Steel <b>Connections:</b> Male 1/4"NPT	96I01000 96I01010 96I01020 96I01110 96I01030 96I01040
<b>Swagelok* elbow tube fitting</b> 	<b>Tube diameter:</b> 3 mm: ..... 4 mm: ..... 6 mm: ..... 8 mm: ..... 1/4": ..... 1/8": ..... <b>Material:</b> Stainless Steel <b>Connections:</b> Male 1/4"NPT	96I01060 96I01070 96I01080 96I00430 96I01090 96I01100
<b>Swagelok* hose connector</b> 	<b>Hose ID:</b> 1/4": ..... <b>Material:</b> Stainless Steel <b>Connections:</b> Male 1/4"NPT	96I00450

\* Swagelok – TM Swagelok Company.

\*\* Other dimensions available on request.

\*\*\* Standard lengths of hoses (xxxx):

0500 =500mm, 0700 =700mm, 1000 =1000mm, 1200 =1200mm, 1500 =1500mm, 2000 =2000mm, 2500 =2500mm, 3000 =3000mm

\*\*\*\* PTFE and rubber are penetrable materials meaning that gases, vapors, and liquids may diffuse through them.

Always check compatibility with gases in application!

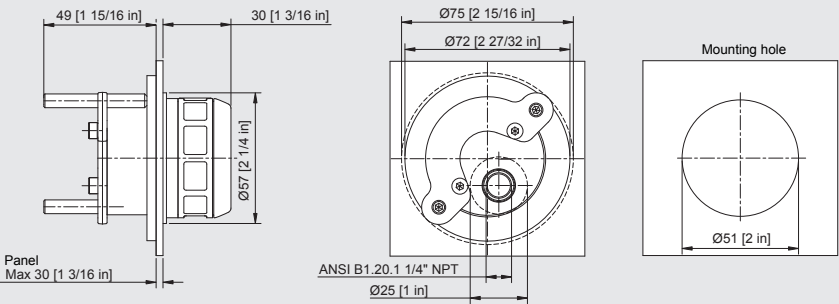
For more information about hoses and their technical specifications please require document 99G0005: BROEN-LAB UniFlex - Flexible Pipes & Hoses



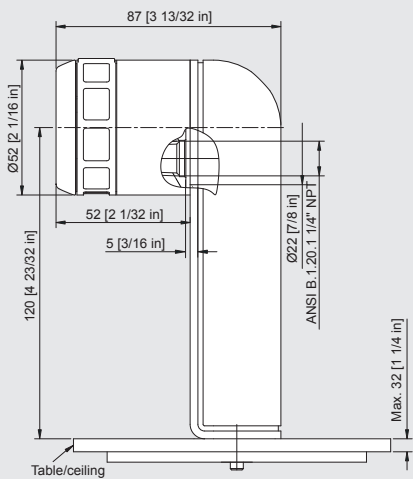
# BROEN QUICK CONNECT

## Mounting information

### Built-in: No. 070XXX1

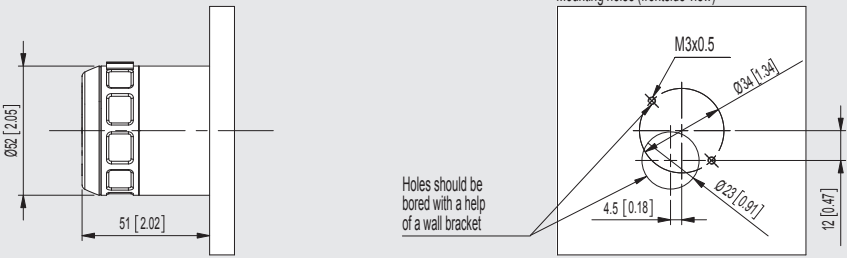


### Bench/suspended mounted: No. 070XXX4

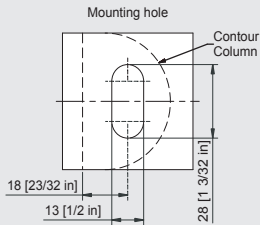
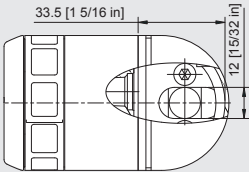
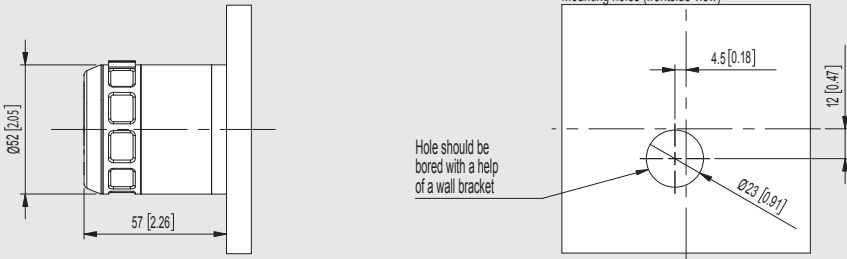


### Wall/panel mounted, concealed piping 070XXX2.

#### MOUNTED WITHOUT A WALL BRACKET

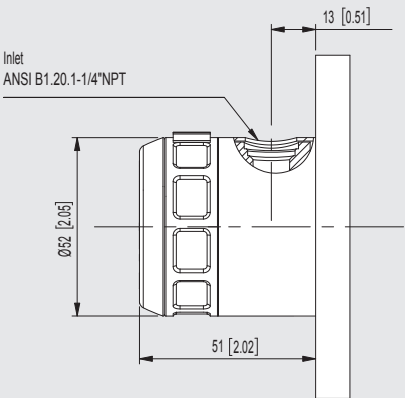


#### MOUNTED WITH A WALL BRACKET

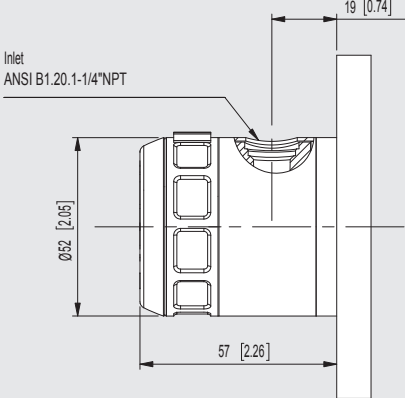


### Wall/panel mounted, exposed piping 070XXX3. Mounted from the frontside

#### MOUNTED WITHOUT A WALL BRACKET



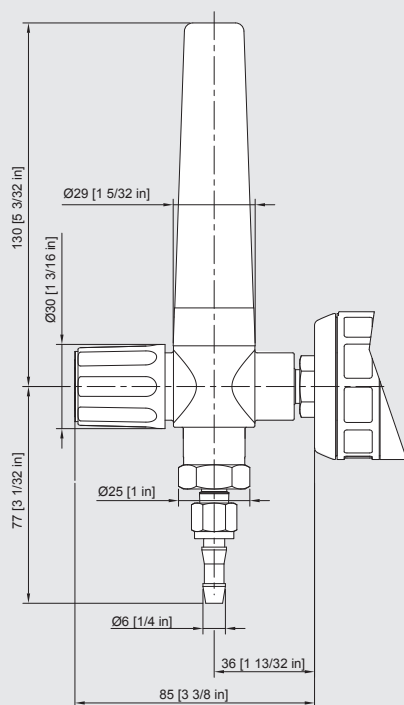
#### MOUNTED WITH A WALL BRACKET



# BROEN QUICK CONNECT

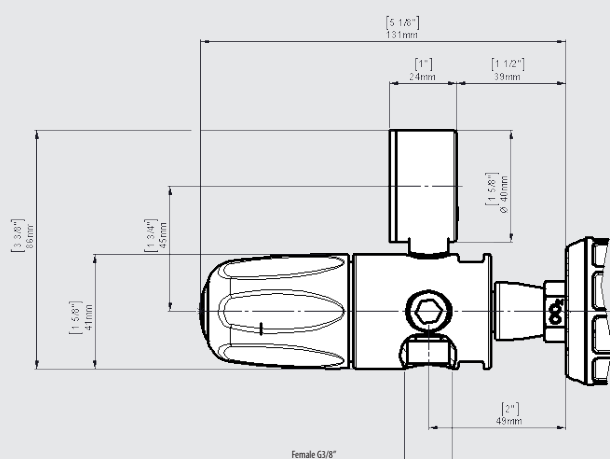
## Mounting information

**Flow meter:** No. 07XXX3Y



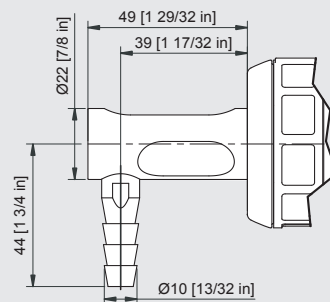
**Pressure regulator:**

No. 07XXX2ZSP

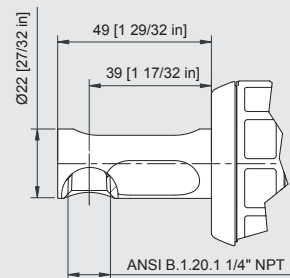


**90° outlet with serrated hose nozzle:**

No. 07XXX00

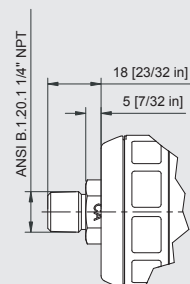


**90° outlet:** No. 07XXX10



**Straight outlet:**

No. 070XX00



BROEN-LAB develops, manufactures and sells Laboratory Fittings, Emergency Shower Systems and Eye Wash Systems into a broad spectrum of laboratories and industrial locations; sectors include Pharmaceutical, Food&Beverage and Academia. Our expertise and product quality ensure optimal solutions compliant to all relevant international norms setting new standards in risk mitigation in modern research and development facilities.

BROEN-LAB offer solutions that ensure the functionality, compliance, hygiene, durability and safety are of the highest priority. For over 50 years our products have been integrated into a wide variety of workplaces, laboratories, hospitals and industrial locations, with features that are assessed and designed to be flexible, durable and compliant offering a broad range of options tailored to each location. This inherent design integrity provides confidence in the solution adopted wherever in the world these are applied.

BROEN-LAB is a collaboration partner in the design and layout of your next laboratory and it's integrated safety solutions.

#### HEAD OFFICE

##### **BROEN-LAB A/S**

Drejervaenget 2 • DK-5610 Assens  
Denmark  
Tel.: +45 6376 6376 • Fax +45 6471 2476  
E-mail: lab@broen.com



##### **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 9001:2015. This certification will further contribute to reputation for quality and reliability of BROEN-LAB A/S.

#### INTERNATIONAL OFFICES

##### **BROEN-LAB Ltd**

Tel. +44 121 522 4515  
E-mail: lab@broen-lab.com

##### **BROEN-LAB Singapore Pte. Ltd.**

25 International Business Park #04-60A German Centre  
Singapore 609916  
Tel. +65 6298 0662 • Fax +65 6298 0468  
E-mail: lab@broen-lab.com

##### **BROEN-LAB GmbH**

Tel.: +45 6376 6376 • Fax +45 6471 2476  
E-mail: lab@broen-lab.com

##### **BROEN-LAB Sverige AB**

Tel.: +45 6376 6376 • Fax +45 6471 2476  
E-mail: lab@broen-lab.com

##### **BROEN-LAB Inc.**

15 Constitution Drive Suite 122  
Bedford • NH 03110 • USA  
Tel.: +1 603 310 5089  
E-mail: lab@broen-lab.com

[www.BROEN-LAB.com](http://www.BROEN-LAB.com)

**BROEN-LAB**