BROEN-LAB

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FITTINGS FOR BURNING GAS

PREMIUM range 99B0061 - 22.11.2024

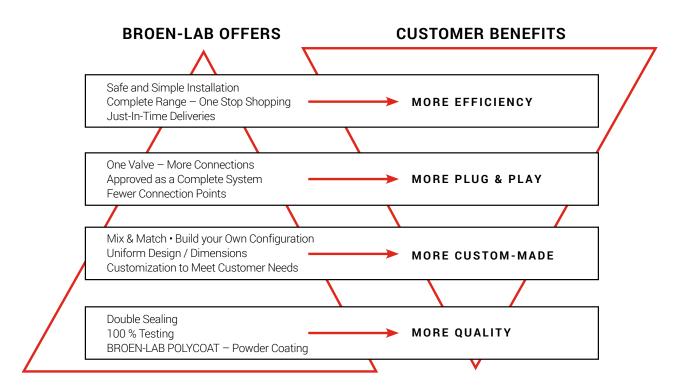
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BROEN-LAB UNIFLEX[™] PREMIUM

THIS IS BROEN-LAB UNIFLEX™ PREMIUM

BROEN-LAB UniFlex[™] PREMIUM line offers a very high quality and durability combined with the complete program, which adds up to low LCC (Life Cycle Costs). Our PREMIUM line takes the standards in the market to a higher level.



BROEN-LAB UniFlex[™] PREMIUM fittings for burning gases are designed for laboratory use. The operation and the configuration of the fittings are highly adapted to the requirements of a modern laboratory. The fittings are surface treated with BROEN-LAB POLYCOAT powder coating, which is highly resistant to most chemicals, UV fading and heat (for more information please refer to "BROEN-LAB POLYCOAT" brochure).

All BROEN-LAB UniFlex[™] PREMIUM fittings are delivered with a powder coated metal handle with "POP-UP" indication buttons that make it possible visually to observe if the valve is open. Media indication is according to EN13792. Ceramic press/turn headwork prevents from unintentional opening of the valve.

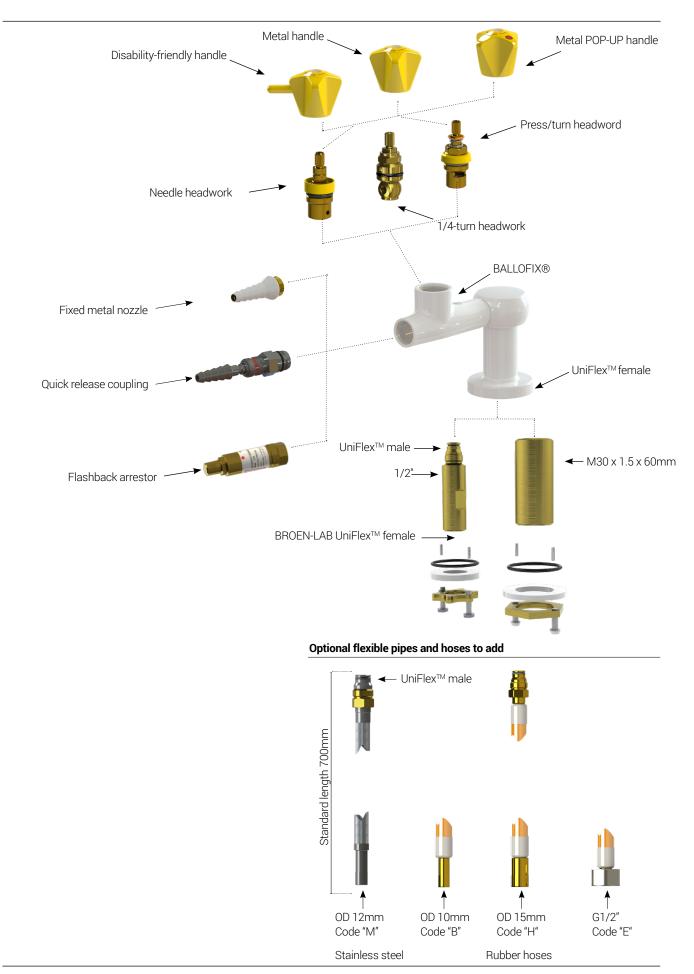
All BROEN-LAB UniFlex[™] PREMIUM fittings for burning gases incorporate a BALLOFIX[®] ball valve, which offers a number of advantages such as local shut-off (e.g. in connection with product service) and pre-setting for experimental purposes.

As standard fittings are delivered with a fixed metal nozzle or a quick release coupling for easy and immediate connection and safe disconnection.

THIS IS BROEN-LAB UNIFLEX™

BROEN-LAB UniFlex[™] is a unique and patented connection, which allows customers to choose from various connection methods, such as hoses, Cu, PEX of Stainless Steel pipes, without changing the valve itself. It provides unique flexibility, not only for the installer, but also for the end-user. Due to the flexibility of the system, the quick installation and savings on fittings, this system offers lower TIC (Total Installed Costs).

PRODUCT OVERVIEW



BROEN-LAB UNIFLEX™ PREMIUM

What is burning gas?

Burning or flammable gases are gases that burn or explode in presence of air or oxygen.

BROEN-LAB UniFlex[™] fittings for burning gases can be used for natural gas (G), liquefied petroleum gas (LPG) as well as low pressure bottle gases such as:

- propane
- butane
- methane
- acetylene
- hydrogen

These gases are typically commercially manufactured and sold to be used in applications within:

- laboratory and instrumentation
- chemical and petrochemical industry
- semiconductor industry
- welding, etc.

Our headworks

BROEN-LAB UniFlex[™] fittings for burning gases can be delivered with 3 different types of headworks depending on the requirements set by applications with regards to safety and/or regulation of media flow.



As standard all BROEN-LAB UniFlex[™] fittings for burning gases are delivered with a ceramic press/turn safety headwork with 90° opening/ closing function, which prevents unintentional opening of the valve.

If there is a need for fine regulation of media flow then it is possible to get a fitting with a needle headwork that has 3x360° opening/closing function.

If there is a need for disability friendly and safe operation that we recommend use of 1/4-turn headwork.

For more information about BROEN-LAB headworks and technical details please refer to page 16-17 in this catalogue.

Hoses & flexible pipes

BROEN-LAB UniFlex[™] fittings for burning gases can be delivered either with stainless steel flexible pipes or rubber hoses depending on the type of application and customer requirements. For more information about hoses please refer to pages 13-15 in this catalogue.

BENCH MOUNTED FITTING

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

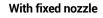
Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

For standard configuration please refer to the item numbers below.

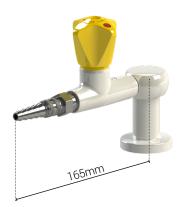
Other options:

- different media
- flashback arrestor
- needle headwork
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals





With quick release coupling

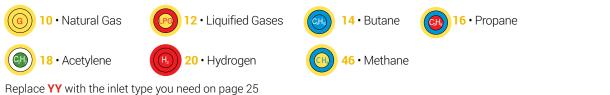


Configuration options

Burning gases: Choose outlet connection, number of valves and media type:

| | 2 | | | |
|----------------------|---|---|---|---|
| | 1-way valve | 2-way 90° valve | 2-way 180° valve | 4-way valve |
| Fixed nozzle | 2532 026 10 <mark>XX</mark> - YY | 2532 034 10 XX - YY | 2532 030 10 <mark>XX</mark> - YY | 2532 038 10 XX - YY |
| Quick release nozzle | 2532 070 10 XX - YY | 2532 095 10 <mark>XX</mark> - YY | 2532 096 10 <mark>XX</mark> - YY | 2532 097 10 <mark>XX</mark> - YY |

Replace XX with one of these media types:



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SUSPENDED FITTING WITH 90° VALVES

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

For standard configuration please refer to the item numbers below.

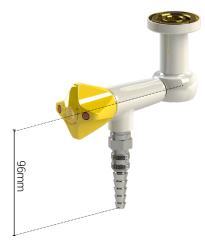
Other options:

- different media
- flashback arrestor
- needle headwork
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals

With fixed nozzle



With quick release coupling



Configuration options

Burning gases: Choose outlet connection, number of valves and media type:

| | 1-way valve | 2-way 90° valve | 2-way 180° valve | 4-way valve |
|----------------------|---|---|---|---|
| Fixed nozzle | 2530 041 10 XX - YY | 2530 077 10 <mark>XX</mark> - YY | 2530 036 10 <mark>XX</mark> - YY | 2530 137 10 <mark>XX</mark> - YY |
| Quick release nozzle | 2530 138 10 <mark>XX</mark> - YY | 2530 139 10 <mark>XX</mark> - YY | 2530 140 10 <mark>XX</mark> - YY | 2530 141 10 <mark>XX</mark> - YY |

Replace XX with one of these media types:



SUSPENDED FITTING WITH 45° VALVES

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- different media
- flashback arrestor
- needle headwork
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals



With fixed nozzle

With quick release coupling



Configuration options

Burning gases: Choose outlet connection and media type:

| | | | State - | |
|----------------------|----------------------------|-----------------------------------|---|---|
| | 1-way valve | 2-way 90° valve | 2-way 180° valve | 4-way valve |
| Fixed nozzle | 2530 127 10 XX - YY | 2530 148 10 XX - YY | 2530 043 10 XX - YY | 2530 143 10 <mark>XX</mark> - YY |
| Quick release nozzle | 2530 144 10 XX - YY | 2530 142 10 XX - YY | 2530 145 10 <mark>XX</mark> - YY | 2530 146 10 <mark>XX</mark> - YY |

Replace XX with one of these media types:



WALL MOUNTED DOUBLE FITTING WITH 90° VALVES

Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Needle Opening/closing function: 3 x 360° Max. working pressure: 16 bar / 232 psi Allowable test pressure after installation: 1.5 x max working pressure without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

For standard configuration please refer to the item numbers below.

- Other options:
- different media
- flashback arrestor
- needle headwork
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals



With quick release coupling



Configuration options

| | 2-way 90° valve | |
|----------------------------------|-----------------------------------|-----------------|
| Fixed nozzle | 2530 040 10 XX - YY | |
| Quick release nozzle | 2530 147 10 XX - YY | |
| Replace XX with one of th | ese media types: | |
| (G) 10 • Natural Gas | 12 · Liquified Gase | s 🙌 14 · Butane |
| 18 · Acetylene | H) 20 · Hydrogen | 46 · Methane |
| Replace YY with the inlet | type you need on page 25 | |

WALL MOUNTED DOUBLE FITTING WITH STRAIGHT VALVES

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- different media
- flashback arrestor
- needle headwork
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals

With fixed nozzle



With quick release coupling



Configuration options

Burning gases: Choose outlet connection and media type: 2-way 90° valve 2532 065 10XX - YY Fixed nozzle Quick release nozzle 2532 098 10XX - YY Replace XX with one of these media types: 10 • Natural Gas 2 • Liquified Gases 14 • Butane 6 • Propane C_2H_2 18 • Acetylene н 20 • Hydrogen 46 • Methane Replace YY with the inlet type you need on page 25

WALL MOUNTED FITTING WITH 90° VALVES FOR EXPOSED PIPING

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

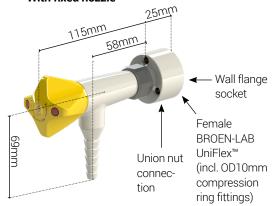
Ordering information

For standard configuration please refer to the item numbers below.

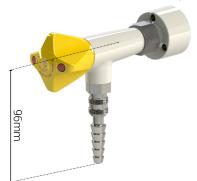
Other options:

- different media
- flashback arrestor
- needle headwork
- disability-friendly handle (for needle and 1/4-turn headworks only)
- other inlet options (compression ring fittings, flexible SS pipe / rubber hose)
- wall flange socket for built-in installation
- national approvals

With fixed nozzle



With quick release coupling



Configuration options

| E | Burning gases: Choose outlet connection and media type: | | | | | | |
|---|---|---------------------------------|--------------|---------|--------------|--|--|
| | | 1-way valve | | | | | |
| | Fixed nozzle | 2530 149 10 <mark>XX</mark> - T | | | | | |
| | Quick release nozzle | 2530 150 10 <mark>XX</mark> - T | | | | | |
| | Replace XX with one of the | ese media types: | | | | | |
| | (G) 10 • Natural Gas | 12 • Liquified Gas | ses 💮 14 · E | Butane | 16 • Propane | | |
| | 18 · Acetylene | H. 20 · Hydrogen | 6 • N | Vethane | | | |

WALL MOUNTED FITTING WITH STRAIGHT VALVES FOR EXPOSED PIPING

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

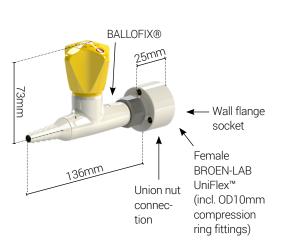
For standard configuration please refer to the item numbers below.

Other options:

- different media
- flashback arrestor
- needle headwork
- disability-friendly handle (for needle and 1/4-turn headworks only)
- other inlet options (compression ring fittings, flexible SS

pipe / rubber hose)

- wall flange socket for built-in installation
- national approvals



With quick release coupling

With fixed nozzle



Configuration options

Burning gases: Choose outlet connection and media type:

| | 1-way valve |
|----------------------|---------------------------------|
| Fixed nozzle | 2532 105 10 <mark>XX</mark> - T |
| Quick release nozzle | 2532 106 10 <mark>XX</mark> - T |

Replace XX with one of these media types:



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BENCH OR WALL MOUNTED 90° FITTING WITH LEAD-IN

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- different media
- flashback arrestor
- needle headwork
- disability-friendly handle (for needle and 1/4-turn headworks only)
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals

With fixed nozzle



With quick release coupling



Configuration options

| Burning gases: Choose outlet connection and media type: | | | | | |
|---|-----------------------------------|-------------------|--------------|--|--|
| | 1-way valve | | | | |
| Fixed nozzle | 2530 323 10 XX - YY | | | | |
| Quick release nozzle | 2530 324 10 XX - YY | | | | |
| Replace XX with one of the | ese media types: | | | | |
| (G) 10 • Natural Gas | 12 • Liquified Gas | ses 🕢 14 • Butane | 16 • Propane | | |
| 18 · Acetylene (1) 20 · Hydrogen (4) · Methane | | | | | |
| Replace YY with the inlet t | type you need on page 25 | | | | |

BENCH OR WALL MOUNTED 45° FITTING WITH LEAD-IN

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

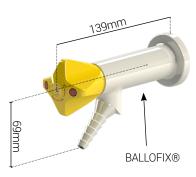
Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- different media
- flashback arrestor
- needle headwork
- disability-friendly handle (for needle and 1/4-turn headworks only)
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals

With fixed nozzle



With quick release coupling



Configuration options

| Barning gabee: enleese ea | tiet connection and media typ | | |
|------------------------------------|-----------------------------------|-----------------|------------|
| | 1-way valve | | |
| Fixed nozzle | 2530 341 10 XX - YY | | |
| Quick release nozzle | 2530 342 10 XX - YY | | |
| Replace XX with one of the | ese media types: | | |
| 💿 10 • Natural Gas | 12 • Liquified Gases | s 🛞 14 • Butane | (B) 16 · P |
| 18 · Acetylene | Hydrogen | 46 · Methane | |
| Replace YY with the inlet t | ype you need on page 25 | | |

SUSPENDED OR WALL MOUNTED STRAIGHT FITTING WITH LEAD-IN

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- different media
- flashback arrestor
- needle headwork
- disability-friendly handle (for needle and 1/4-turn headworks only)
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals

With fixed nozzle



With quick release coupling



Configuration options

| | | type. | |
|----------------------------------|---|---------------------|--------------|
| | 1-way valve | | |
| Fixed nozzle | 2532 173 10 <mark>XX</mark> - YY | | |
| Quick release nozzle | 2532 202 10 XX - YY | | |
| Replace XX with one of th | ese media types: | | |
| (G) 10 • Natural Gas | 12 • Liquified Gas | ses (H) 14 · Butane | 16 • Propane |
| 18 · Acetylene | (H) 20 • Hydrogen | 46 • Methane | |
| Replace YY with the inlet | type you need on page 25 | | |

SINGLE 90° VALVE WITH REAR WALL CONNECTION (RWC)

Specifications

The fitting is delivered with an integrated BALLOFIX®® ball valve. Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

For standard configuration please refer to the item numbers below.

- Other options:
- different media
- flashback arrestor
- needle headwork
- disability-friendly handle (for needle and 1/4-turn headworks only)
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals

With fixed nozzle



With quick release coupling



Configuration options

| | | pe. | |
|------------------------------------|---------------------------------|-----------------|--------------|
| | 2-way 90° valve | | |
| Fixed nozzle | 2530 431 10 <mark>XX</mark> -40 | | |
| Quick release nozzle | 2530 432 10 <mark>XX</mark> -40 | | |
| Replace XX with one of the | ese media types: | | |
| (G) 10 • Natural Gas | 12 · Liquified Gases | s 🔀 14 • Butane | 16 · Propane |
| 18 · Acetylene | H 20 • Hydrogen | 46 • Methane | |
| Replace YY with the inlet t | type you need on page 25 | | |

SINGLE STRAIGHT VALVE WITH REAR WALL CONNECTION (RWC)

Specifications

The fitting is delivered with an integrated BALLOFIX® ball valve. Max. working pressure: 7 bar / 700 kPa / 102 psi Temperature limits: 5-60° C / 41-140° F Handle: Metal, "POP-UP", BROEN-LAB POLYCOAT powder coated with media indication according to EN13792 Hose nozzle: Metal, fixed Headwork: Ceramic, press/turn Opening/closing function: 90° Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

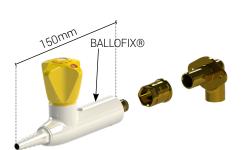
Metals: Brass Sealing: Nitrile (NBR) Lubricant: Mineral oil based Ceramics: Al203 96%

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- different media
- flashback arrestor
- needle headwork
- disability-friendly handle (for needle and 1/4-turn headworks only)
- alternative hose type and inlet connection
- other inlet options (type, length)
- national approvals



With fixed nozzle

With quick release coupling



Configuration options

| burning gases. Choose ou | | type. | |
|------------------------------------|---------------------------------|-------------------|--------------|
| | 2-way 90° valve | | |
| Fixed nozzle | 2532 250 10 <mark>XX</mark> -40 | | |
| Quick release nozzle | 2532 251 10 <mark>XX</mark> -40 | | |
| Replace XX with one of the | ese media types: | | |
| (G) 10 • Natural Gas | 12 • Liquified Gas | ses 🙌 14 • Butane | 16 • Propane |
| 18 · Acetylene | (H) 20 • Hydrogen | 46 · Methane | |
| Replace YY with the inlet t | ype you need on page 25 | | |

BROEN-LAB UNIFLEX[™] HOSE / SS FLEXIBLE PIPE SELECTION GUIDE

BROEN-LAB offers BROEN-LAB UniFlex[™] hoses and flexible Stainless Steel pipes as an easy way to make the installation in the laboratory where safety and efficiency are required. BROEN-LAB UniFlex[™] hoses are the ideal solution where there is a higher requirement for flexibility. Installation with flexible hoses saves time and labour - in other words - reduced installation costs.

Select the right product to ensure safe installation and long service life!

The total design of the system must be taken into consideration when selecting the type of BROEN-LAB UniFlex[™] flexible hose or pipe for specific media. Only then products will provide safe, trouble-free operation.

Please always check local requirements/regulations regarding installation and maintenance of hoses/flexible pipes!

A very high quality of materials applied for production of hoses and Stainless Steel flexible pipes, which are supplied by BROEN-LAB, and a long-time experience in making installations worldwide, combined with optimal installation conditions, may assure a lifetime for a hose to be more than 10 years. Expected lifetime can only be achieved under normal use and proper installation methods, which are described in technical Specifications, i.e. max. working pressure, max. temperature, physical installation methods and other. Any nonconformity to Specifications decreases the lifetime of a hose/flexible pipe.

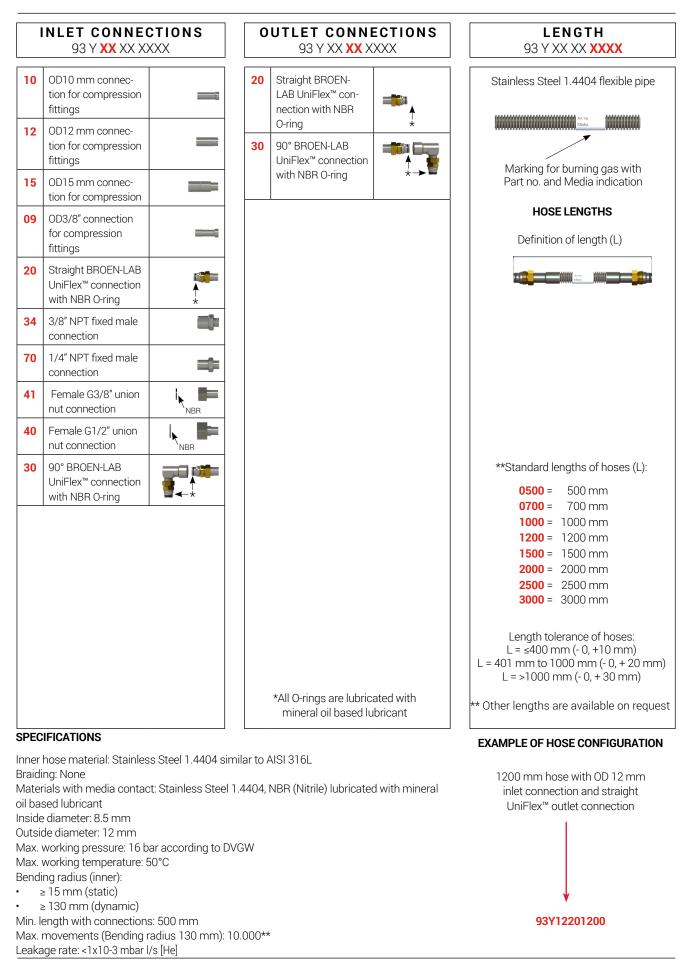
Which hose/flexible pipe to select?

In the table below you find the summary of the factors that are necessary to consider when selecting a BROEN-LAB UniFlex[™] flexible hoses/pipes for burning gases.

| Hose | Rubber | SS |
|--|------------------------------|--|
| Factors* | 93G | 93Y |
| Inner hose material with media contact | Nitrile (NBR) | Corrugated Stainless Steel AISI 316 |
| Outer hose material / braiding | EPDM (polyesther reinforced) | None |
| Sealing material | Nitrile (NBR) | Nitrile (NBR) (93Y) |
| Inside diameter | 6.3 mm | 8.5 mm |
| Outside diameter | 12.9 mm | 12 mm |
| Max. working pressure | 10 bar | 16 bar, DVGW |
| Max. working temperature | 50°C | 50°C |
| Min. bending radius (inner) | 40 mm | 15 mm (Single bend) 130 mm (Dynamic bend) |
| Leakage rate | ** | <1x10-3 mbar l/s [He] (93Y) |
| UV resistance | + | +++ |
| Range of connections | +++ | ++ |

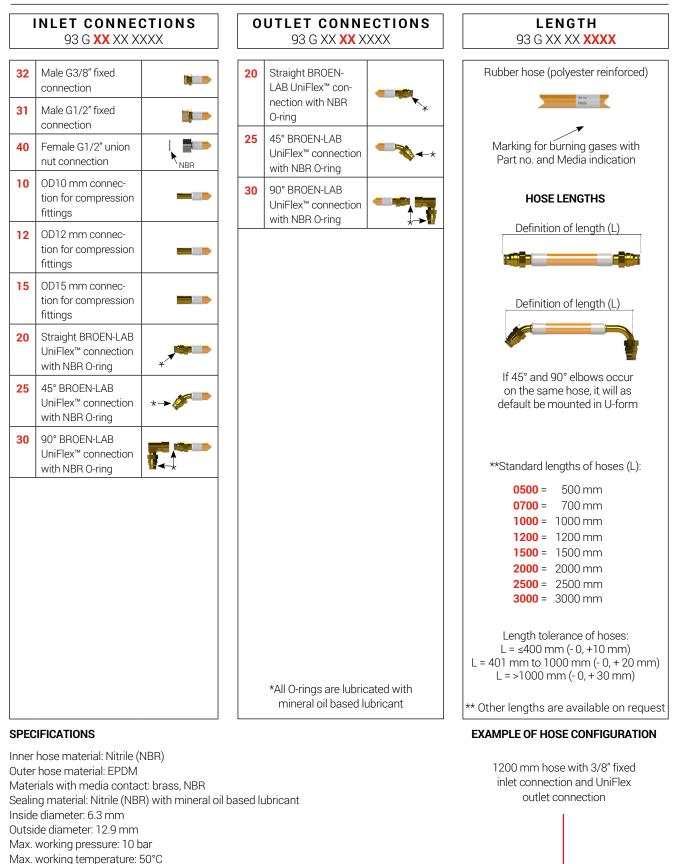
* Values shown in the table are valid for rubber hoses and flexible Stainless steel pipes only.

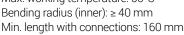
93Y - BROEN-LAB UNIFLEX™ FLEXIBLE STAINLESS STEEL PIPES FOR BURNING GASES



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93G - BROEN-LAB UNIFLEX™ RUBBER HOSES FOR BURNING GASES





93G32201200

TECHNICAL INFORMATION

PRESS/TURN HEADWORK

Specifications

BROEN-LAB UniFlex[™] fittings for burning gases are as a standard delivered with a safety press/turn headwork.

Opening/closing function: 90° turn

Media: Burning gases

Max. working pressure: 7 bar / 700 kPa / 102 psi

Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass

Sealing: Nitrile (NBR)

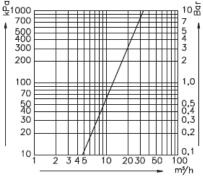
Lubricant: Mineral oil based

Ceramics: Al203 96%

Ordering information

Press/turn headwork • Not available as a spare part (for safety reasons)







Press/turn headwork

TECHNICAL INFORMATION

NEEDLE HEADWORK

Specifications

BROEN-LAB UniFlex[™] fittings for burning gases can be also delivered with a needle headwork where fine regulation of flow is required.

Opening/closing function: 3 x 360° turn

Media: Burning gases

Max. working pressure: 16 bar / 1600 kPa / 232 psi

Allowable test pressure after installation: 1.5 x max. working pressure without function of the valve

Materials with media contact

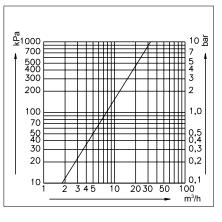
Metals: Brass Sealing: Nitrile (NBR)

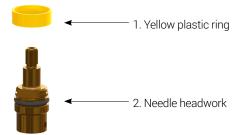
Lubricant: Mineral oil based

Ordering information

- 1. Yellow plastic ring No. 0255035-4059
- 2. Needle headwork Not available as a spare part (for safety reasons)







TECHNICAL INFORMATION

1/4 TURN HEADWORK

Specifications

BROEN-LAB UniFlexTM fittings for burning gases can also be delivered with a 1/4-turn headwork (recommended for disability friendly handle)

Opening/closing function: 90° turn

Media: Burning gases

Max. working pressure: 7 bar / 102 psi

Allowable test pressure after installation: 10 bar without function of the valve

Materials with media contact

Metals: Brass

Sealing: Nitrile (NBR)

Lubricant: Mineral oil based

Ordering information

1/4 turn headwork • Not available as a spare part (for safety reasons)



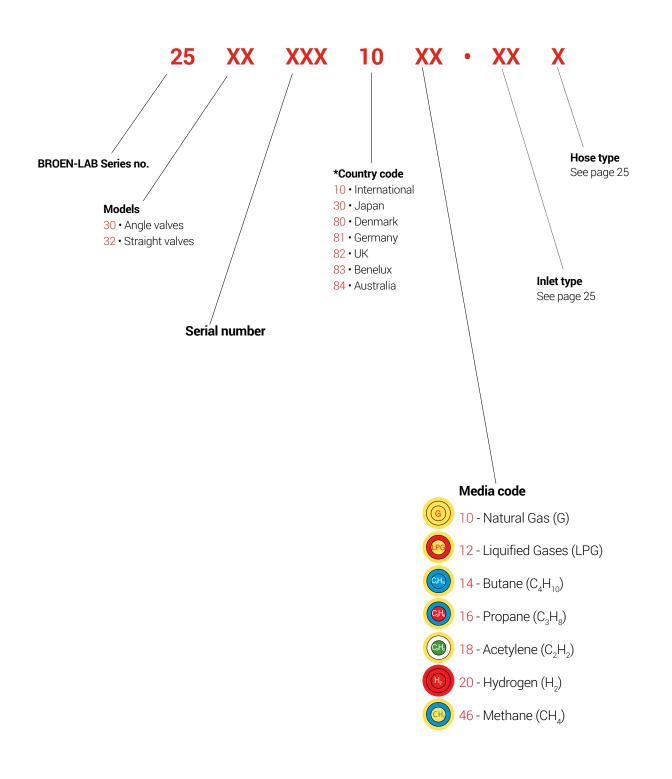
- 1/4 turn headwork

ACCESSORIES

| Illustration | Description | BROEN-LAB item no. |
|---|---|--|
| | Hose nozzle for quick release coupling | 96C0030 |
| | Flashback arrestor | 96T1006 |
| _()) 🎼 | Mounting set for G1/2" connection Mounting set for M30x1.5 connection | 19 141 000 19 190 000 |
| | G1/2" inlet with female BROEN-LAB UniFlex™ connection (incl. o-ring) L = 30mm L = 60mm | 15 504 33G Code - 05 15 504 12G Code - 14 |
| | L = 90mm Threaded inlet pipe M30x1.5 L = 30mm L = 60mm L = 90mm | 15 504 46G Code -18 19 190 03 Code -50 19 190 02 Code -52 19 190 04 Code -54 |
| | Wall flange socket (WFS) (for exposed piping) | 02 101 309G |
| Recommended 74mm visible length 16mm Female BROEN-LAB UniFlex™ | Wall flange socket (WFS) (for built-in installation) | 02 101 31G |
| 062.5mm | Cover flange for wall flange socket (WFS) | 14 923 049G |
| | Metal pop-up handle with media indication according to EN 13792 | 19 160 149 10XX Replace XX with the media on page 25 |

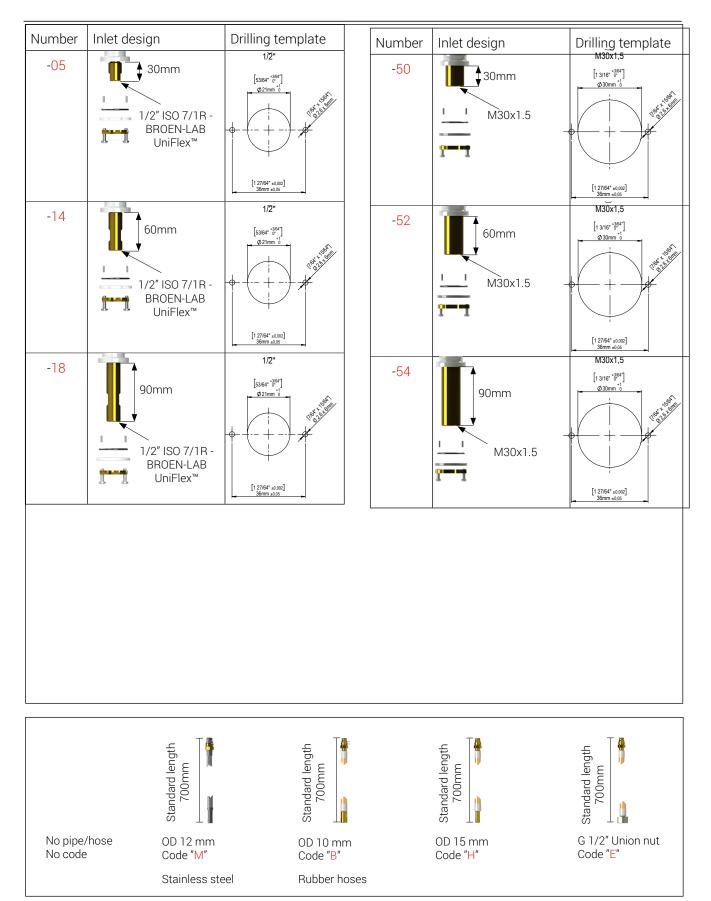
ORDERING INFORMATION

Generally, item number for BROEN-LAB UniFlex™ fittings has the following structure:



For other configuration options please contact your local BROEN-LAB representative.

ORDERING INFORMATION



For installation with Cu- and Stainless Steel BROEN-LAB offers a wide range of connection fittings and adapters for pipes of different dimensions.

Please request document No. 99G0004 for a complete range of BROEN-LAB UniFlex™ compression ring fittings.

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lab@broen-lab.com broen-lab.com 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 offers solutions that ensure the functionality, compliance, hygiene, durability and safety are of the highest priority. For more than 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.



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.

BROEN-LAB A/S ISO 14001:2015 certification

In December 2022 we got certified according to ISO 14001 in Environmental certification. The new certification was carried out by Bureau Veritas, Denmark, for Danish site in Assens. The Environment ISO14001 management system of BROEN-LAB A/S is included in internationally acknowledged EN ISO 9001:2015. Both certifications furthermore contribute to reputation for quality and reliability of BROEN-LAB A/S.

