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FITTINGS FOR BURNING GAS

BASIC range

99B0062 - 22.11.2024

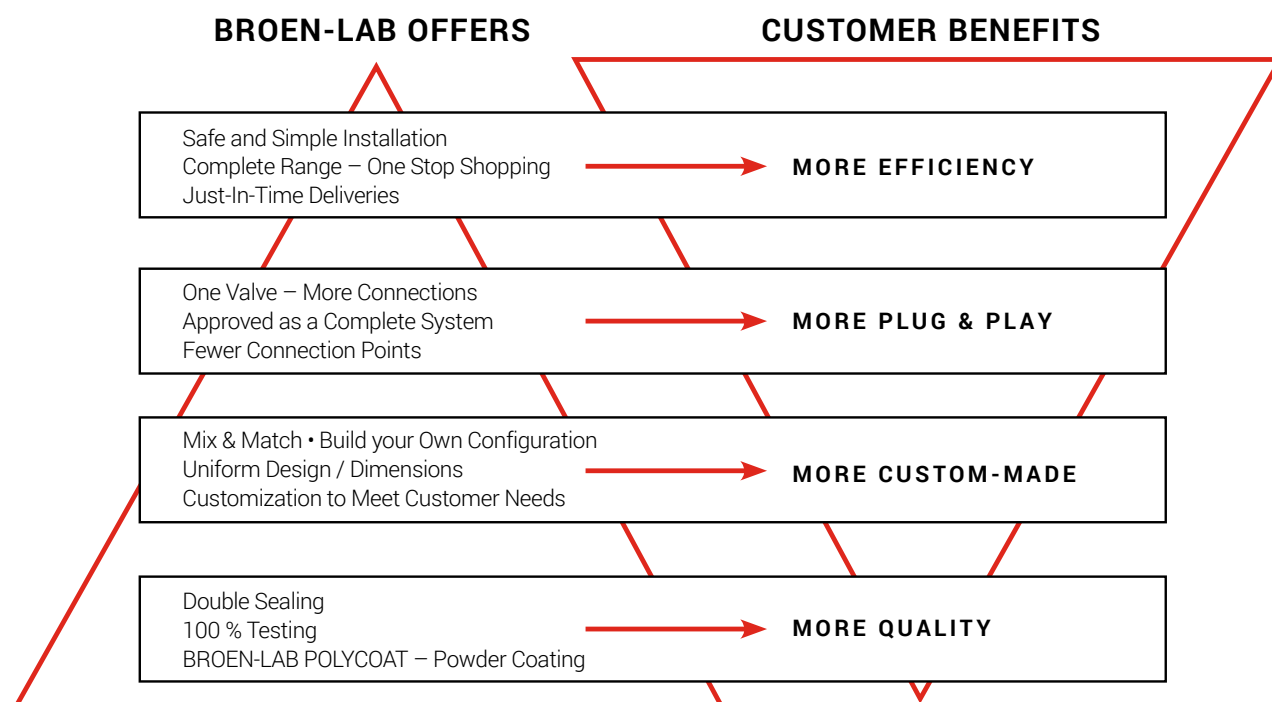
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BROEN-LAB UNIFLEX™

THIS IS BROEN-LAB UNIFLEX™

BROEN-LAB UniFlex™ line offers a very high quality and durability combined with the complete program, which adds up to low LCC (Life Cycle Costs).



BROEN-LAB UniFlex™ 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).

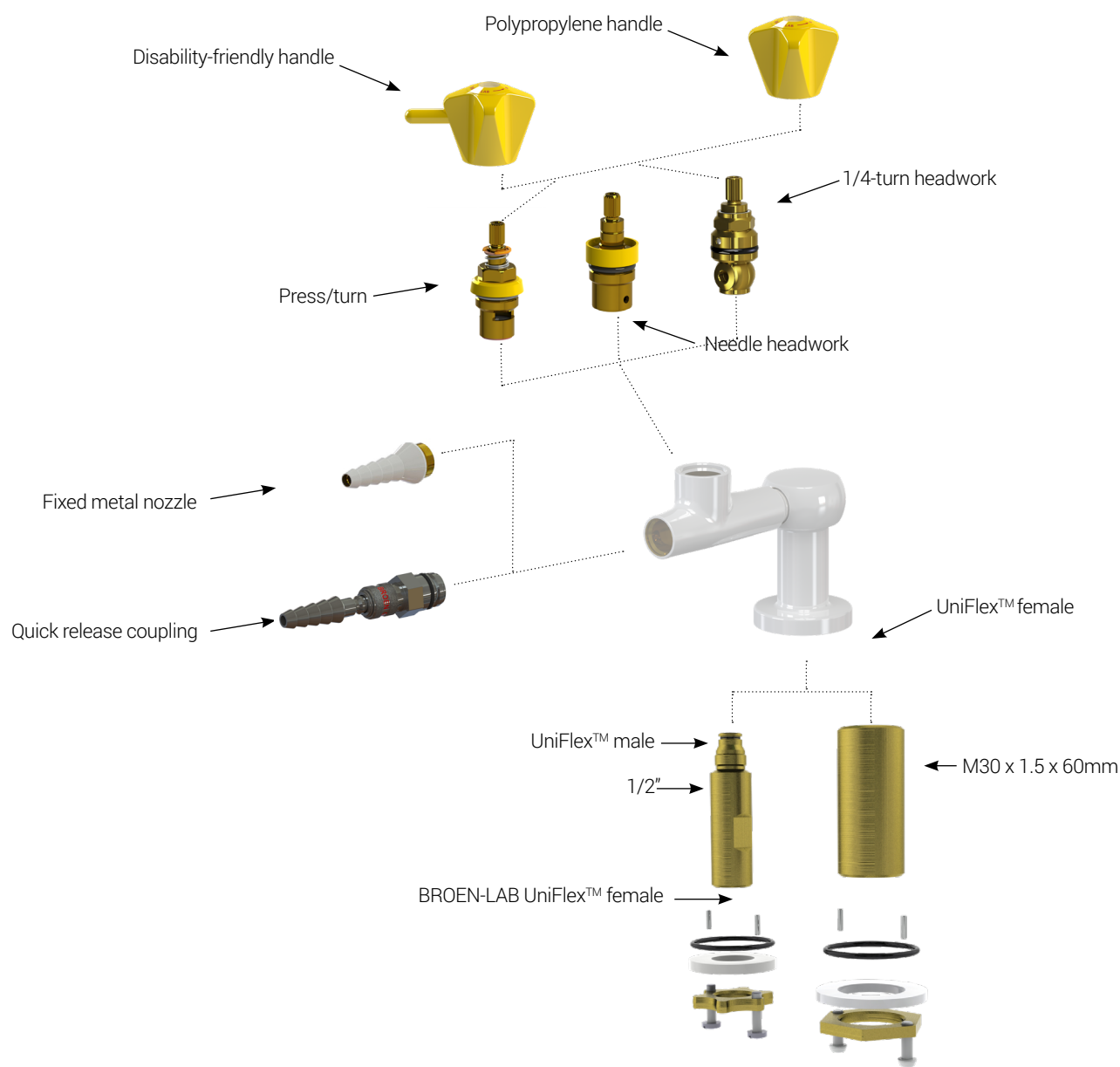
All BROEN-LAB UniFlex™ fittings are delivered with a polypropylene handle having media indication according to EN13792. Ceramic press/turn safety headwork prevents unintentional opening of the valve.

All BROEN-LAB UniFlex™ fittings for burning gases are delivered with a fixed metal nozzle or a quick release coupling for easy and immediate connection and safe disconnection.

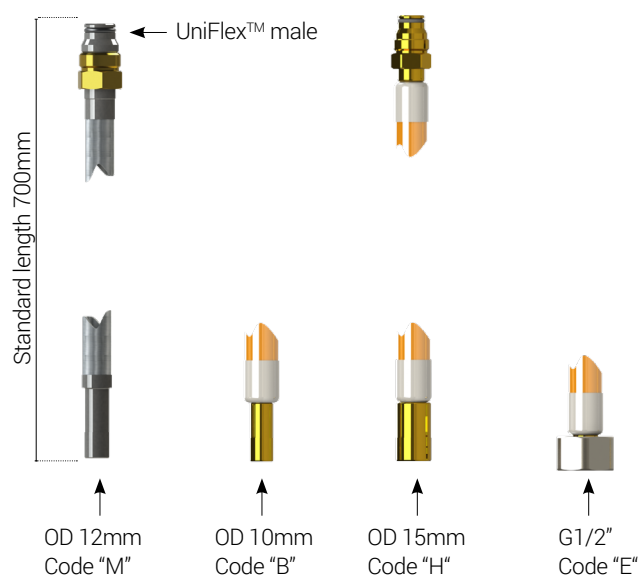
THIS IS BROEN-LAB UNIFLEX™

BROEN-LAB UniFlex™ is a unique and patented connection, which allows customers to choose from various connection methods, such as hoses, Cu, PEX or 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).

CONFIGURATION OVERVIEW



Optional flexible pipes and hoses to add



TECHNICAL INFORMATION

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.

Press/turn headwork



Needle headwork



1/4-turn headwork



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

Handle: Polypropylene with media indication according to EN13792
Hose nozzle: Metal, fixed
Headwork: Ceramic, press/turn
Opening/closing function: 90°
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
Ceramics: Al2O3 96%

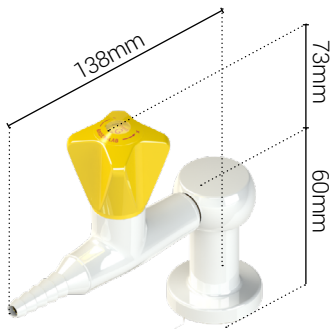
Ordering information

For standard configuration please refer to the item numbers below.

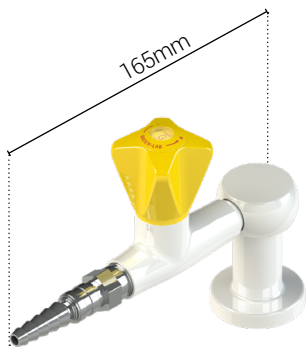
Other options:

- different media
- flashback arrestor
- needle or 1/4-turn 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, number of valves and media type:



	1-way valve	2-way 90° valve	2-way 180° valve	4-way valve
Fixed nozzle	2532 006 10XX - YY	2532 019 10XX - YY	2532 012 10XX - YY	2532 045 10XX - YY
Quick release nozzle	2532 046 10XX - YY	2532 048 10XX - YY	2532 047 10XX - YY	2532 049 10XX - YY

Replace **XX** with one of these media types:



31 • Natural Gas



32 • Liquefied Gases



34 • Hydrogen

SUSPENDED FITTING WITH 90° VALVES

Specifications

Handle: Polypropylene with media indication according to EN13792
Hose nozzle: Metal, fixed
Headwork: Ceramic, press/turn
Opening/closing function: 90°
Max. working pressure: 7 bar / 102 psi
Allowable test pressure after installation:
10 bar without function of the valve

Materials with media contact

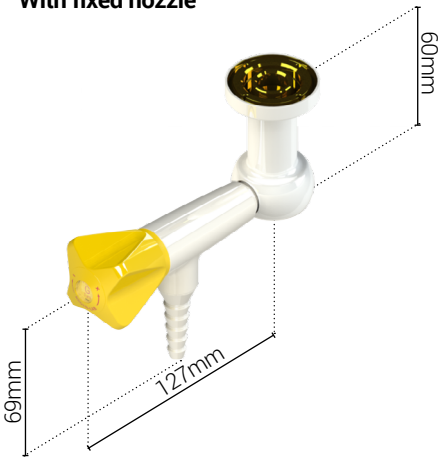
Metals: Brass
Sealing: Nitrile (NBR)
Lubricant: Mineral oil based
Ceramics: Al2O3 96%

Ordering information

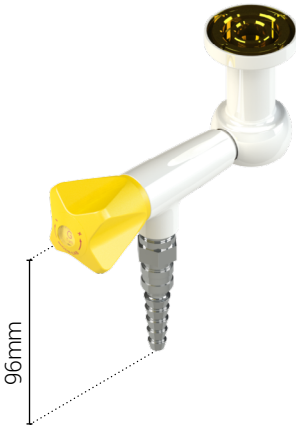
For standard configuration please refer to the item numbers below.

- Other options:
- different media
 - flashback arrestor
 - needle or 1/4-turn 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, number of valves and media type:



	1-way valve	2-way 90° valve	2-way 180° valve	4-way valve
Fixed nozzle	2530 076 10XX - YY	2530 061 10XX - YY	2530 071 10XX - YY	2530 227 10XX - YY
Quick release nozzle	2530 228 10XX - YY	2530 229 10XX - YY	2530 230 10XX - YY	2530 231 10XX - YY

Replace **XX** with one of these media types:



31 • Natural Gas



32 • Liquefied Gases



34 • Hydrogen

SUSPENDED FITTING WITH 45° VALVES

Specifications

Handle: Polypropylene with media indication according to EN13792
Hose nozzle: Metal, fixed
Headwork: Ceramic, press/turn
Opening/closing function: 90°
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
Ceramics: Al2O3 96%

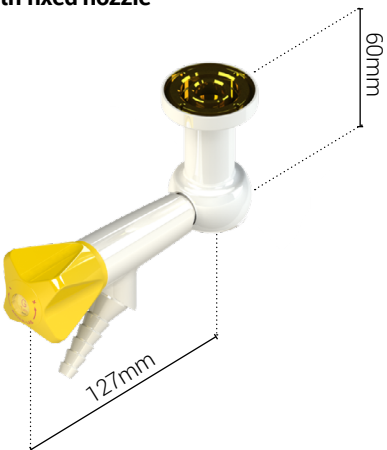
Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- different media
- flashback arrestor
- needle or 1/4-turn 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, number of valves and media type:



	1-way valve	2-way 90° valve	2-way 180° valve	4-way valve
Fixed nozzle	2530 220 10XX - YY	2530 221 10XX - YY	2530 168 10XX - YY	2530 222 10XX - YY
Quick release nozzle	2530 223 10XX - YY	2530 224 10XX - YY	2530 225 10XX - YY	2530 226 10XX - YY

Replace **XX** with one of these media types:



31 • Natural Gas



32 • Liquefied Gases



34 • Hydrogen

WALL MOUNTED DOUBLE FITTING WITH 90° VALVES

Specifications

Handle: Polypropylene with media indication according to EN13792
Hose nozzle: Metal, fixed
Headwork: Ceramic, press/turn
Opening/closing function: 90°
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
Ceramics: Al2O3 96%

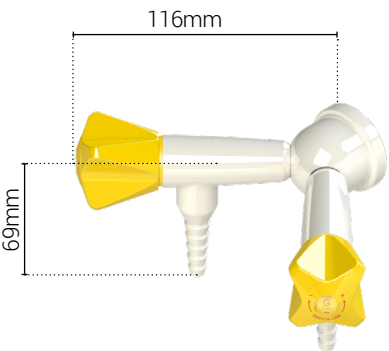
Ordering information

For standard configuration please refer to the item numbers below.

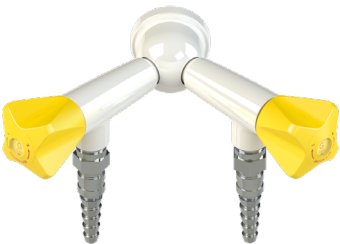
Other options:

- different media
- flashback arrestor
- needle or 1/4-turn 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:

	2-way 90° valve
Fixed nozzle	2530 218 10XX - YY
Quick release nozzle	2530 219 10XX - YY

Replace **XX** with one of these media types:



31 • Natural Gas



32 • Liquefied Gases



34 • Hydrogen

WALL MOUNTED DOUBLE FITTING WITH STRAIGHT VALVES

Specifications

Handle: Polypropylene with media indication according to EN13792
Hose nozzle: Metal, fixed
Headwork: Ceramic, press/turn
Opening/closing function: 90°
Max. working pressure: 7 bar / 102 psi
Allowable test pressure after installation:
10 bar without function of the valve

Materials with media contact

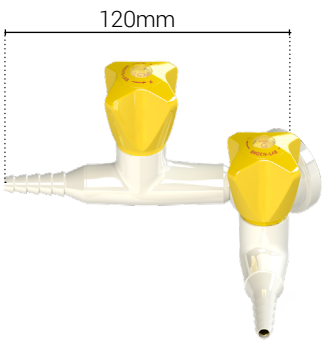
Metals: Brass
Sealing: Nitrile (NBR)
Lubricant: Mineral oil based
Ceramics: Al2O3 96%

Ordering information

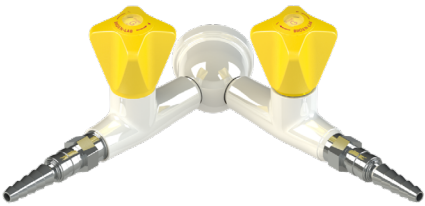
For standard configuration please refer to the item numbers below.

- Other options:
- different media
 - flashback arrestor
 - needle or 1/4-turn 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:

	2-way 90° valve
Fixed nozzle	2532 054 10XX - YY
Quick release nozzle	2532 055 10XX - YY

Replace **XX** with one of these media types:

 **31** • Natural Gas

 **32** • Liquefied Gases

 **34** • Hydrogen

WALL MOUNTED FITTING WITH 90° VALVE FOR EXPOSED PIPING

Specifications

Handle: Polypropylene with media indication according to EN13792
 Hose nozzle: Metal, fixed
 Headwork: Ceramic, press/turn
 Opening/closing function: 90°
 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
 Ceramics: Al₂O₃ 96%

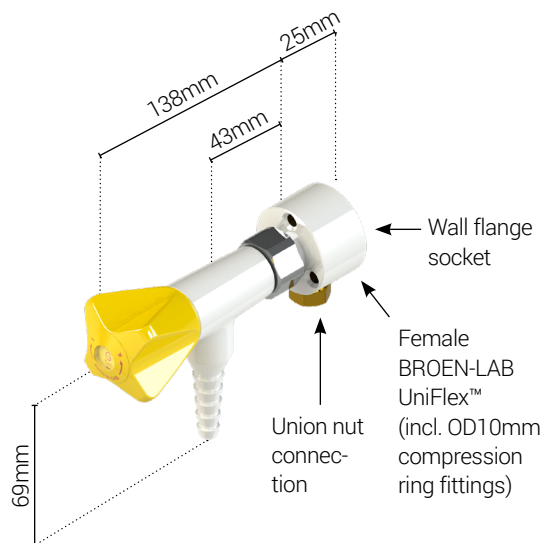
Ordering information

For standard configuration please refer to the item numbers below.

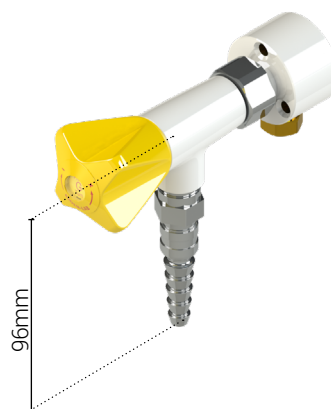
Other options:

- different media
- flashback arrestor
- needle or 1/4-turn 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

Burning gases: Choose outlet connection and media type:

	1-way valve
Fixed nozzle	2530 171 10XX - T
Quick release nozzle	2530 217 10XX - T

Replace **XX** with one of these media types:



31 • Natural Gas



32 • Liquefied Gases



34 • Hydrogen

SUSPENDED OR WALL MOUNTED STRAIGHT FITTING WITH LEAD-IN

Specifications

Handle: Polypropylene with media indication according to EN13792
Hose nozzle: Metal, fixed
Headwork: Ceramic, press/turn
Opening/closing function: 90°
Max. working pressure: 7 bar / 102 psi
Allowable test pressure after installation:
10 bar without function of the valve

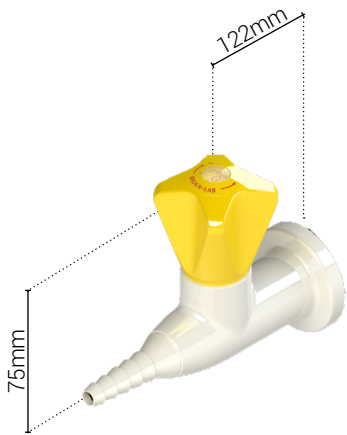
Materials with media contact

Metals: Brass
Sealing: Nitrile (NBR)
Lubricant: Mineral oil based
Ceramics: Al2O3 96%

Ordering information

For standard configuration please refer to the item numbers below.
Other options:
- different media
- flashback arrestor
- needle or 1/4-turn headwork
- disability-friendly handle (for needle and 1/4-turn headworks only)
- other inlet options (compression ring fittings, flexible SS pipe)
- national approvals

With fixed nozzle



With quick release coupling



Configuration options

Burning gases: Choose outlet connection and media type:

	1-way valve
Fixed nozzle	2532 171 10XX - YY
Quick release nozzle	2532 203 10XX - YY

Replace **XX** with one of these media types:



31 • Natural Gas



32 • Liquefied Gases



34 • Hydrogen

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?








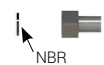

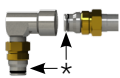
In the table below you find the summary of the factors that are necessary to consider when selecting a BROEN-LAB UniFlex™ flexible hoses/pipes for burning gases.

Factors*	Hose	Rubber	SS
		93G	93Y
Inner hose material with media contact		Nitrile (NBR)	Corrugated Stainless Steel AISI 316
Outer hose material / braiding		EPDM (polyester 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		+++	++


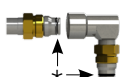
*Values shown in the table are valid for rubber hoses and flexible Stainless Steel pipes only.

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

INLET CONNECTIONS 93 Y **XX** XX XXXX

10	OD10 mm connection for compression fittings	
12	OD12 mm connection for compression fittings	
15	OD15 mm connection for compression	
09	OD3/8" connection for compression fittings	
20	Straight BROEN-LAB UniFlex™ connection with NBR O-ring	
34	3/8" NPT fixed male connection	
70	1/4" NPT fixed male connection	
41	Female G3/8" union nut connection	
40	Female G1/2" union nut connection	
30	90° BROEN-LAB UniFlex™ connection with NBR O-ring	

OUTLET CONNECTIONS 93 Y XX **XX** XXXX

20	Straight BROEN-LAB UniFlex™ connection with NBR O-ring	
30	90° BROEN-LAB UniFlex™ connection with NBR O-ring	

*All O-rings are lubricated with mineral oil based lubricant

LENGTH 93 Y XX XX **XXXX**

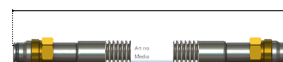
Stainless Steel 1.4404 flexible pipe



Marking for water with Part no. and Media indication

HOSE LENGTHS

Definition of length (L)



**Standard lengths of hoses (L):

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

Length tolerance of hoses:
 $L \leq 400 \text{ mm}$ (- 0, +10 mm)
 $L = 401 \text{ mm to } 1000 \text{ mm}$ (- 0, + 20 mm)
 $L > 1000 \text{ mm}$ (- 0, + 30 mm)

** Other lengths are available on request

SPECIFICATIONS

Inner hose material: Stainless Steel 1.4404 similar to AISI 316L

Braiding: None

Materials with media contact: Stainless Steel 1.4404, NBR (Nitrile) lubricated with mineral oil based lubricant

Inside diameter: 8.5 mm

Outside diameter: 12 mm

Max. working pressure: 16 bar according to DVGW

Max. working temperature: 50°C

Bending radius (inner):

- $\geq 15 \text{ mm}$ (static)
- $\geq 130 \text{ mm}$ (dynamic)

Min. length with connections: 500 mm

Max. movements (Bending radius 130 mm): 10.000**

Leakage rate: $< 1 \times 10^{-3} \text{ mbar l/s [He]}$



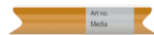

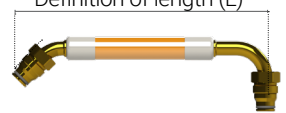



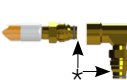



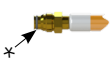

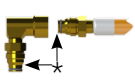
EXAMPLE OF HOSE CONFIGURATION

1200 mm hose with OD 12 mm inlet connection and straight UniFlex™ outlet connection



93Y12201200

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

INLET CONNECTIONS			OUTLET CONNECTIONS			LENGTH		
93 G XX XX XXXX			93 G XX XX XXXX			93 G XX XX XXXX		
32	Male G3/8" fixed connection		20	Straight BROEN-LAB UniFlex™ connection with NBR O-ring		<p>Rubber hose (polyester reinforced)</p>  <p>Marking for burning gases with Part no. and Media indication</p> <p>HOSE LENGTHS</p> <p>Definition of length (L)</p>  <p>Definition of length (L)</p>  <p>If 45° and 90° elbows occur on the same hose, it will as default be mounted in U-form</p> <p>**Standard lengths of hoses (L):</p> <p>0500 = 500 mm 0700 = 700 mm 1000 = 1000 mm 1200 = 1200 mm 1500 = 1500 mm 2000 = 2000 mm 2500 = 2500 mm 3000 = 3000 mm</p> <p>Length tolerance of hoses: L = ≤400 mm (- 0, +10 mm) L = 401 mm to 1000 mm (- 0, + 20 mm) L = >1000 mm (- 0, + 30 mm)</p> <p>** Other lengths are available on request</p>		
31	Male G1/2" fixed connection		25	45° BROEN-LAB UniFlex™ connection with NBR O-ring				
40	Female G1/2" union nut connection		30	90° BROEN-LAB UniFlex™ connection with NBR O-ring				
10	OD10 mm connection for compression fittings		<p>*All O-rings are lubricated with mineral oil based lubricant</p>					
12	OD12 mm connection for compression fittings							
15	OD15 mm connection for compression fittings							
20	Straight BROEN-LAB UniFlex™ connection with NBR O-ring							
25	45° BROEN-LAB UniFlex™ connection with NBR O-ring							
30	90° BROEN-LAB UniFlex™ connection with NBR O-ring							

SPECIFICATIONS

Inner hose material: Nitrile (NBR)
 Outer hose material: EPDM
 Materials with media contact: brass, NBR
 Sealing material: Nitrile (NBR) with mineral oil based lubricant
 Inside diameter: 6.3 mm
 Outside diameter: 12.9 mm
 Max. working pressure: 10 bar
 Max. working temperature: 50°C
 Bending radius (inner): ≥ 40 mm
 Min. length with connections: 160 mm

EXAMPLE OF HOSE CONFIGURATION

1200 mm hose with G3/8" fixed inlet connection and UniFlex outlet connection. Nr. Er



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)

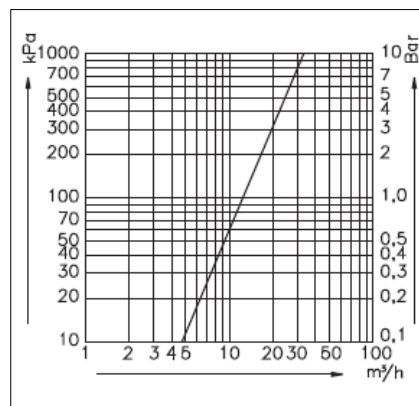
Lubricant: Mineral oil based

Ceramics: Al₂O₃ 96%

Ordering information

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

Flow Chart



← 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)

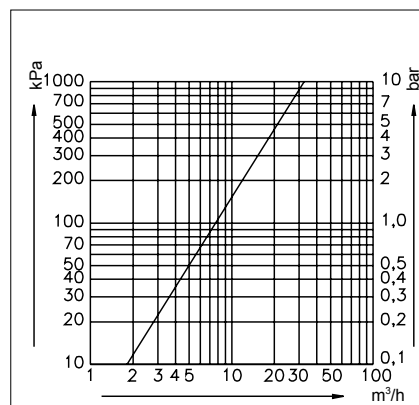
Lubricant: Mineral oil based

Ordering information

1. Yellow plastic ring • No. 0255035-4059

2. Needle headwork • Not available as a spare part
(for safety reasons)

Flow Chart



← 1. Yellow plastic ring



← 2. Needle headwork

TECHNICAL INFORMATION

1/4 TURN HEADWORK

Specifications

BROEN-LAB UniFlex™ 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)



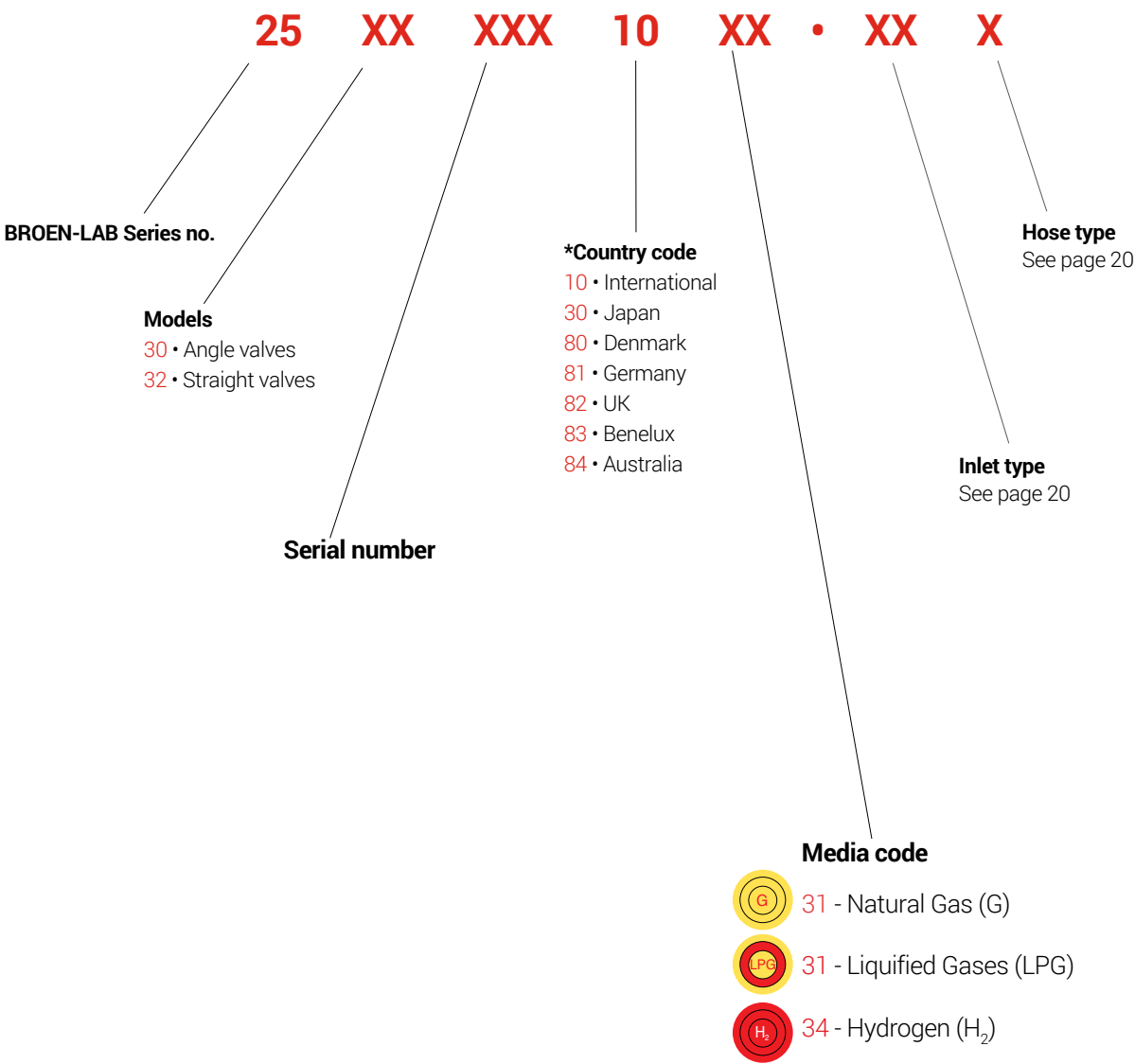
← 1/4 turn headwork

ACCESSORIES

Illustration	Description	BROEN-LAB item no.
	Hose nozzle for quick release coupling	96C0030
	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 L = 90mm	15 504 33G 15 504 12G 15 504 46G
	Threaded inlet pipe M30x1.5 L = 30mm L = 60mm L = 90mm	19 190 03 19 190 02 19 190 04
	Wall flange socket (WFS) (for exposed piping)	02 101 309G
	Wall flange socket (WFS) (for built-in installation)	02 101 31G
	Cover flange for wall flange socket (WFS)	14 923 049G
	Polypropylene pop-up handle with media indication according to EN 13792 (for press/turn headwork)	19 150 140 10XX Replace XX with the media on page 19

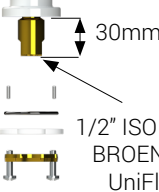
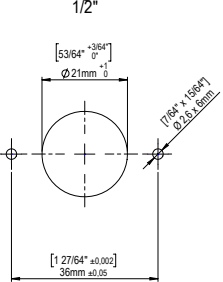
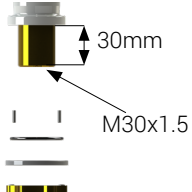
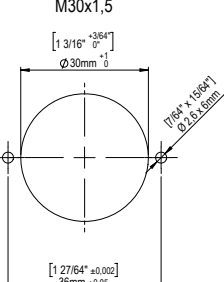
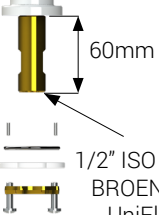
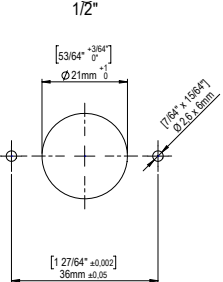
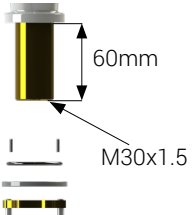
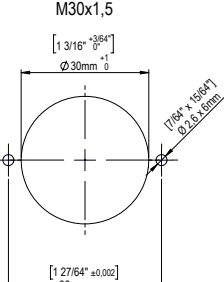
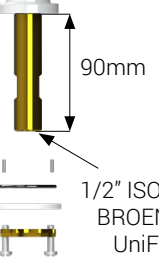
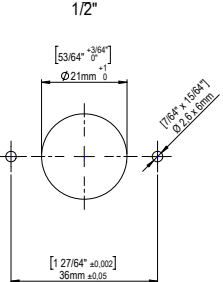
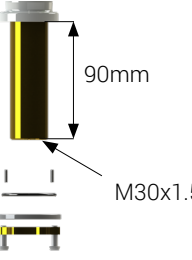
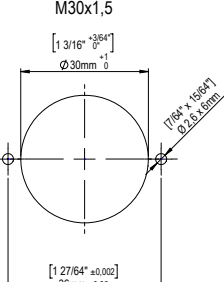









ORDERING INFORMATION

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

Number	Inlet design	Drilling template	Number	Inlet design	Drilling template
-05	 <p>30mm</p> <p>1/2" ISO 7/1 R - BROEN-LAB UniFlex™</p>	 <p>1/2"</p> <p>$[53/64^{+0.002}_{-0}]$ $\Phi 21\text{mm}$</p> <p>$[17/64^{+0.002}_{-0}]$ $\Phi 2.6\text{mm}$</p> <p>$[1\ 27/64^{+0.002}_{-0}]$ 36mm</p>	-50	 <p>30mm</p> <p>M30x1.5</p>	 <p>M30x1,5</p> <p>$[1\ 3/16^{+0.002}_{-0}]$ $\Phi 30\text{mm}$</p> <p>$[17/64^{+0.002}_{-0}]$ $\Phi 2.6\text{mm}$</p> <p>$[1\ 27/64^{+0.002}_{-0}]$ 36mm</p>
-14	 <p>60mm</p> <p>1/2" ISO 7/1 R - BROEN-LAB UniFlex™</p>	 <p>1/2"</p> <p>$[53/64^{+0.002}_{-0}]$ $\Phi 21\text{mm}$</p> <p>$[17/64^{+0.002}_{-0}]$ $\Phi 2.6\text{mm}$</p> <p>$[1\ 27/64^{+0.002}_{-0}]$ 36mm</p>	-52	 <p>60mm</p> <p>M30x1.5</p>	 <p>M30x1,5</p> <p>$[1\ 3/16^{+0.002}_{-0}]$ $\Phi 30\text{mm}$</p> <p>$[17/64^{+0.002}_{-0}]$ $\Phi 2.6\text{mm}$</p> <p>$[1\ 27/64^{+0.002}_{-0}]$ 36mm</p>
-18	 <p>90mm</p> <p>1/2" ISO 7/1 R - BROEN-LAB UniFlex™</p>	 <p>1/2"</p> <p>$[53/64^{+0.002}_{-0}]$ $\Phi 21\text{mm}$</p> <p>$[17/64^{+0.002}_{-0}]$ $\Phi 2.6\text{mm}$</p> <p>$[1\ 27/64^{+0.002}_{-0}]$ 36mm</p>	-54	 <p>90mm</p> <p>M30x1.5</p>	 <p>M30x1,5</p> <p>$[1\ 3/16^{+0.002}_{-0}]$ $\Phi 30\text{mm}$</p> <p>$[17/64^{+0.002}_{-0}]$ $\Phi 2.6\text{mm}$</p> <p>$[1\ 27/64^{+0.002}_{-0}]$ 36mm</p>
<div> <div>  <p>Standard length 700mm</p> </div> <div>  <p>No pipe/hose No code</p> </div> <div>  <p>OD 12 mm Code "M"</p> </div> </div> <div> <div>  <p>Standard length 700mm</p> </div> <div>  <p>OD 10 mm Code "B"</p> </div> </div> <div> <div>  <p>Standard length 700mm</p> </div> <div>  <p>OD 15 mm Code "H"</p> </div> </div> <div> <div>  <p>Standard length 700mm</p> </div> <div>  <p>G 1/2 Union nut Code "E"</p> </div> </div>					

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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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.