BROEN-LAB

Drejervaenget 2, 5610 Assens, Denmark

Phone: +45 6376 6376 E-mail: lab@broen-lab.com Web : broen-lab.com



FITTINGS FOR FRONT CONTROL VALVES

PREMIUM range

99B0040 - 03.04.2025

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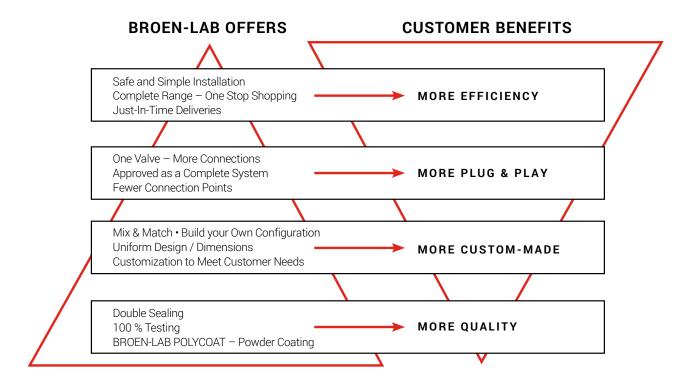
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BROEN-LAB UNIFLEX™ PREMIUM

THIS IS BROEN-LAB UNIFLEX™ PREMIUM

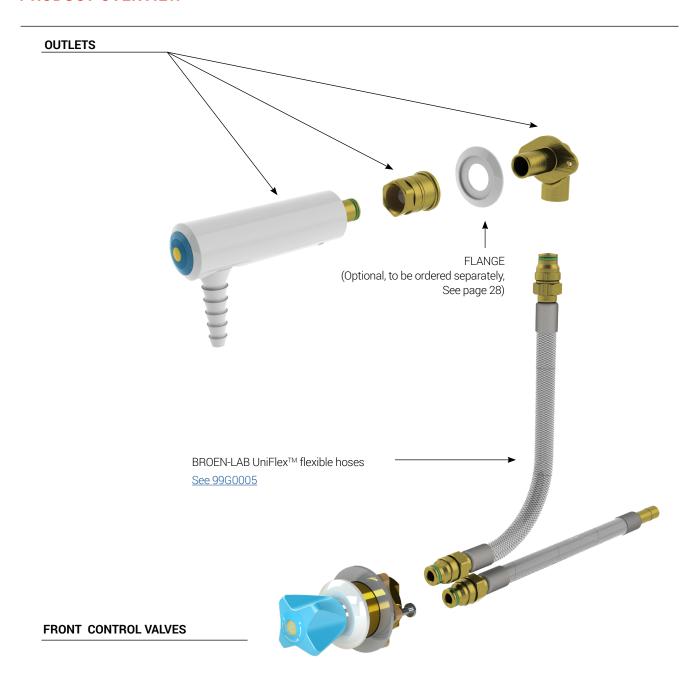
BROEN-LAB UniFlex TM line offers a very high quality and durability combined with the complete program, which ads up to low LCC (Life Cycle Costs). Our line takes the standards in the market to a higher level.



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™ connection fittings and adaptors for CU, SS, PEX and PA pipes

For more information about BROEN-LAB UniFlex™ flexible pipes and hoses, connection fittings and adaptors, please contact your BROEN-LAB representative or refer to www.BROEN-LAB.com

WATER

Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792.

Headwork: Ceramic

Opening/closing function: 180° Temperature range: 0-90°C

Max. working pressure: 10 bar / 147 psi Test pressure: 1 x working pressure Inlet/outlet: BROEN-LAB UniFlex™

Weight: 0.7 kg

Materials with media contact

Metals: Brass Rubber: EPDM Plastics: POM

Lubricant: Silicone based Ceramics: Al-oxyd 96%

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- a valve for different medium
- a valve for front side mounting
- a valve without mounting kit
- national approvals

For further information, please contact your BROEN-LAB representative.



Available with or without service valve according to product numbers listed below

Configuration options





without service valve	with service valve
2511 507 10 XX	2511 508 10 XX

Replace XX with one of these media types:



01 • Potable water, cold



02 • Potable water, hot



07 • Non-potable water, cold



08 • Non-potable water, hot

WATER

Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated with

media indication according to EN13792.

Cartridge: Ceramic (with flow and temperature regulation or two step opening)

Temperature range: 0-90°C

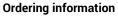
Max.working pressure: 10 bar / 147 psi Test pressure: 1 x working pressure Inlet/outlet: BROEN-LAB UniFlex™

Weight: 0.6 kg



Metals: Brass Rubber: EPDM Plastics: POM

Lubricant: Silicone based Ceramics: Al-oxyd 96%



For standard configuration please refer to the item numbers below.

Other options:

- a valve without mounting kit

For further information, please contact your BROEN-LAB representative.



Configuration options





with flow and temperature regulation cartridge	with two step opening
2511 529 10 XX	2511 531 10 XX

Replace XX with one of these media types:



35 • Potable water, tempered



37 · Non-potable water, tempered

WATER

Specifications

BROEN-LAB UniFlex[™] outlets have an integrated media indication according to EN 13792. Inlet/outlet: BROEN-LAB UniFlex[™] Max. wall thickness: 20mm Weight: 0.5 kg

Materials with media contact

Metals: Brass Rubber: EPDM

Lubricant: Silicone based

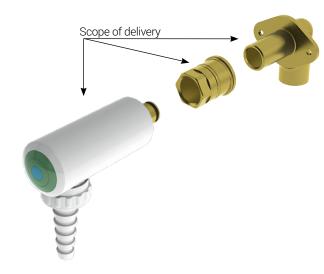
Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- other media
- flange
- non-return valve
- fixed nozzle
- other standout
- straight rear wall connection
- wall thickness 20-40mm
- double wall mounting
- table mounting
- additional support in case of a thin panel
- national approvals

For further information, please contact your BROEN-LAB representative.



Addional mounting information see page 30-33

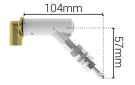
With removable nozzle





45°	90° S = 53 mm	90° S = 75 mm	90° S = 90 mm
2511 101 10 XX -40	2511 111 10 XX -40	2511 121 10 XX -40	2511 131 10 XX -40

With quick release coupling





45°	90° S = 53 mm	90° S = 75 mm	90° S = 90 mm
2511 102 10 XX -40	2511 112 10 XX -40	2511 122 10 XX -40	2511 132 10 XX -40

Replace XX with one of these media types:



01 • Potable water, cold



07 • Non-potable water, cold



35 • Potable water, tempered



02 • Potable water, hot



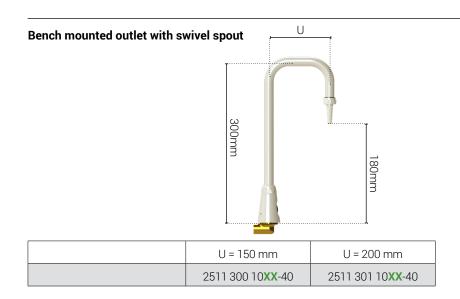
08 · Non-potable water, hot

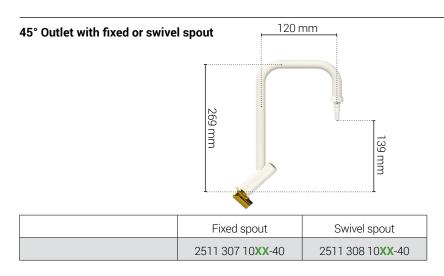


37 · Non-potable water, tempered

OUTLET SPOUT

WATER





Replace XX with one of these media types:



01 • Potable water, cold



07 • Non-potable water, cold



35 • Potable water, tempered



02 • Potable water, hot



08 · Non-potable water, hot



37 · Non-potable water, tempered

OUTLET SPOUT

WATER

Specifications

Inlet: BROEN-LAB UniFlex™ Hose nozzle: Metal, Removable Temperature range: 0-65°C Weight: 0.7 kg

Materials with media contact

Metals: Brass Rubber: EPDM Lubricant: Silicone based

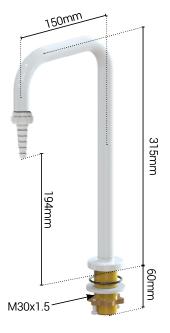
Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- non-return valve
- removable nozzle
- other inlet connections (length, type)

For further information, please contact your BROEN-LAB representative.



Ordering information

2539 039 10 XX -52

Replace XX with one of these media types:



01 • Potable water, cold



07 • Non-potable water, cold



35 • Potable water, tempered



02 • Potable water, hot



08 • Non-potable water, hot



37 · Non-potable water, tempered

SPECIAL WATER

Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792.

Headwork: Diaphragm type
Opening/closing function: 1 1/2 x 360°

Max. working pressure: 10 bar / 147 psi
Test pressure: 1 x working pressure
Weight: 0.7 kg

PP valve

Temperature range: 0-65°C Inlet/outlet: Push couplings for OD10mm pipes

SS Valve

Temperature range: 0-90°C Inlet/outlet:BROEN-LAB UniFlex™

Materials with media contact

PP valve

Diaphragm: PTFE Plastics: PP

SS Valve

Diaphragm: PTFE Metals: SS (AISI 316)

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- a valve without mounting kit
- a valve for front side mounting

For further information, please contact your BROEN-LAB representative.



Available in PP or Stainless Steel according to product numbers listed below

Configuration options





PP valve	SS valve
2511 533 10 XX	2511 535 10 XX

Replace XX with one of these media types:



03 •Distilled water



36 • Deionized water, cold

Delivered with mounting accessories

broen-lab.com

SPECIAL WATER

Specifications

BROEN-LAB UniFlex[™] outlets have an integrated media indication according to EN 13792. Inlet: Push couplings for OD10mm pipes Max. wall thickness: 20mm Weight: 0.5 kg

Materials with media contact

Rubber: EPDM Plastics: PP

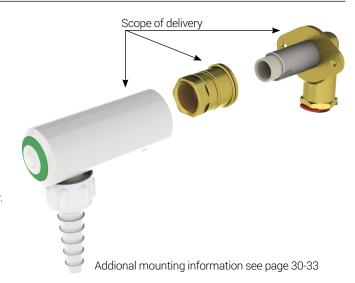
Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- flange
- wall thickness 20-40mm
- swivel spout (U- or S-shape)
- additional support in case of a thin panel

For further information, please contact your BROEN-LAB representative.



Configuration options



S = 53 mm	S = 75 mm	S = 90 mm
2511 116 10 XX- 40	2511 126 10 XX- 40	2511 136 10 XX- 40

Replace XX with one of these media types:



03 •Distilled water



36 • Deionized water, cold

SPECIAL WATER

Specifications

BROEN-LAB UniFlex[™] outlets have an integrated media indication according to EN 13792. Inlet: BROEN-LAB UniFlex[™] Max. wall thickness: 20mm Weight: 0.5 kg

Materials with media contact

Rubber: EPDM

Metals: Stainless Steel (AISI 316)

Ordering information

For standard configuration please refer to the item numbers below

Other options:

- flange
- straight rear wall connection
- fixed nozzle with external G3/4" thread
- wall thickness 20-40mm
- additional support in case of a thin panel

For further information, please contact your BROEN-LAB representative.



Configuration options



S = 53 mm	S = 90 mm
2511 117 10 XX- 40	2511 137 10 XX- 40

Replace XX with one of these media types:



03 •Distilled water



36 • Deionized water, cold

COOLANT WATER

Specifications

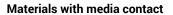
Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792.

Headwork: Rubber

Opening/closing function: 2 x 360° Temperature range: 0-90°C

Max. working pressure: 10 bar / 147 psi Test pressure: 1 x working pressure Inlet/outlet: BROEN-LAB UniFlex $^{\text{TM}}$

Weight: 0.7 kg



Metals: Brass Rubber: EPDM

Lubricant: Silicone based



Available with or without service valve according to product numbers listed below

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- a valve for front side mounting
- a valve without mounting kit
- a valve with simple hand operation of flow and return of chilled water

For further information, please contact your BROEN-LAB representative.

Configuration options



without service valve	with service valve
2511 503 10 XX	2511 504 10 XX

Replace XX with one of these media types:



05 • Coolant water, feed



06 • Coolant water, return

COOLANT WATER

Specifications

BROEN-LAB UniFlex[™] outlets have an integrated media indication according to EN 13792. Inlet/outlet: BROEN-LAB UniFlex[™]

Max. wall thickness: 20mm

Weight: 0.5 kg

Quick release coupling: double shut-off

Materials with media contact

Metals: Brass Rubber: EPDM

Lubricant: Silicone based

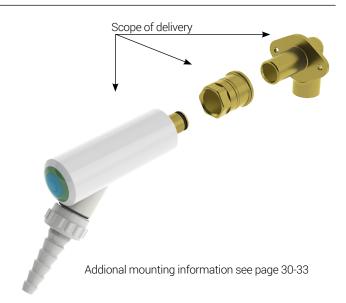
Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- flange
- other standout
- straight rear wall connection
- wall thickness 20-40mm
- double wall mounting
- additional support in case of a thin panel

For further information, please contact your BROEN-LAB representative.



With removable nozzle and integrated non-return valve





45°	90° S = 53 mm	90° S = 75 mm	90° S = 90 mm
2511 104 10 XX -40	2511 114 10 XX -40	2511 124 10 XX -40	2511 134 10 XX -40

With quick release coupling and non-return valve (return only)





45°	90° S = 53 mm	90° S = 75 mm	90° S = 90 mm
2511 102 10 XX -40	2511 112 10 XX -40	2511 122 10 XX -40	2511 132 10 XX -40

Replace XX with one of these media types:



05 · Coolant water, feed



06 · Coolant water, return

BURNING GAS

Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792.

Headwork: ceramic, press/turn

Opening/closing function: 90°

Max.working pressure: 7 bar / 101,5 psi

Test pressure: 1.5 x working pressure

Inlet/outlet: BROEN-LAB UniFlex™

Weight: 0.7 kg

Materials with media contact

Metals: Brass Rubber: NBR

Lubricant: Mineral oil based



Available with or without service valve according to product numbers listed below

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- a valve for different medium
- a valve for front side mounting
- a valve without mounting kit

For further information, please contact your BROEN-LAB representative.

Configuration options





without service valve	with service valve
2511 519 10XX	2511 520 10XX

Replace XX with one of these media types:



10 • Natural Gas



12 • Liquified Gases



14 • Butane





18 • Acetylene



20 • Hydrogen



46 • Methane

BURNING GAS

Specifications

BROEN-LAB UniFlex[™] outlets have an integrated media indication according to EN 13792.
Inlet/outlet: BROEN-LAB UniFlex[™]
Max. wall thickness: 20mm
Weight: 0.5 kg

Materials with media contact

Metals: Brass Rubber: NBR

Lubricant: Mineral oil based

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- other media
- flange
- other standout
- straight rear wall connection
- wall thickness 20-40mm
- double wall mounting
- table mounting
- additional support in case of a thin panel

For further information, please contact your BROEN-LAB representative.



Replace XX with one of these media types:



10 • Natural Gas



12 • Liquified Gases



14 • Butane





18 • Acetylene



20 • Hydrogen



46 • Methane

TECHNICAL GASES 2.0 & VACUUM/HIGH FLOW

Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792. Inlet/outlet: BROEN-LAB UniFlex™

Weight: 0.7 kg

Test pressure: 1.5 x working pressure

Technical 2.0 gases

Headwork: Needle

Opening/closing function: 3 x 360° Max. working pressure: 16 bar / 232 psi

Headwork: Micro flow

Opening/closing function: 7.5 x 360° Max. working pressure: 16 bar / 232 psi

Vacuum / High Flow*

Headwork: High flow

Opening/closing function: 1.5 x 360°

Max. working pressure: -1 bar to 16 bar / -14.5 psi to 232 psi

Materials with media contact

Metals: Brass Rubber: FKM Plastics: PVDF

Lubricant: Perfluoropolyether based

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- a valve for front side mounting
- a valve without mounting kit

For further information, please contact your BROEN-LAB representative.

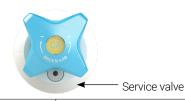


Available with or without service valve according to product numbers listed below

*Please note that valves for vacuum as a standard delivered with a high flow headwork. High flow headwork can also be used for other media where there is a requirement for higher flow.

Configuration options





Without service valve	Without service valve	With service valve	With service valve
Needle headwork	Micro flow headrwork	Needle headwork	Micro flow headrwork
2511 511 10 XX	2511 546 10 XX	2511 512 10 XX	

Replace XX with one of these media types:



21 • Compressed air



23 · Nitrogen



24 • Carbon dioxide



25 • Argon



26 • Helium

Without service valve High flow headwork	With service valve High flow headwork	
2511 515 10 28	2511 516 10 28	



28 • Low vacuum (1000 to 1 mbar)

PRESSURE REGULATOR

Specifications

 ${\tt BROEN-LAB\ UniFlex^{TM}\ pressure\ regulator\ for\ panel\ mounting\ with}$

a built-in filter (mesh size 200 μ m) on the inlet.

Type: Non-relieving Proof pressure: 15 bar

Operating pressure: Max. 10 bar Regulating pressure range: 0,5-8.5 bar Inlet/outlet: BROEN-LAB UniFlex™ Max. panel thickness: 3,5mm

Weight: 0.5 kg

Materials with media contact

Metals: Brass, zinc die-cast Rubber: NBR, FKM

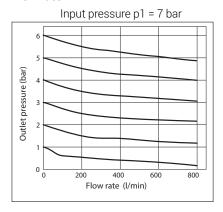
Plastics: POM

Lubricant: Perfluoropolyether based

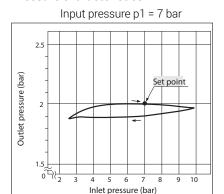
Ordering information

For standard configuration please refer to the item numbers below.

Flow rate



Pressure characteristics



Inlet: female BROEN-LAB UniFlex™ with a built-in filter Outlet: female BROEN-LAB UniFlex™



Ordering information

2599 366 1099
2033 000 1033



21 · Compressed air



23 · Nitrogen 24 · Carbon dioxide



25 • Argon

Media should be defined when ordering.

Can be used for CA, N2, CO2, Ar. Not recommended for Helium (He). Do not use for Oxygen (O2)!

TECHNICAL GASES 2.0 & VACUUM/HIGH FLOW

Specifications

 $\dot{\mathsf{B}}$ ROEN-LAB UniFlex $^\mathsf{TM}$ outlets have an integrated media indication according to EN 13792. Inlet/outlet: BROEN-LAB UniFlex™

Max. wall thickness: 20mm

Weight: 0.5 kg

Materials with media contact

Metals: Brass Rubber: FKM Plastics: PVDF

Lubricant: Perfluoropolyether based

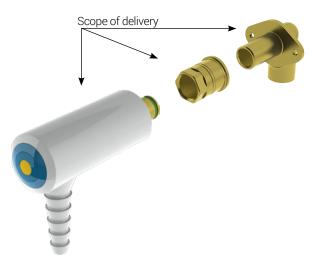
Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- other media
- flange
- straight rear wall connection
- wall thickness 20-40mm
- double wall mounting
- table mounting
- additional support in case of a thin panel

For further information, please contact your BROEN-LAB representative.



Addional mounting information see page 30-33

With fixed nozzle





	45°	90° S = 53 mm	90° S = 75 mm	90° S = 90 mm
2.0 gases	2511 100 10 XX -40	2511 110 10 XX -40	2511 120 10 XX -40	2511 130 10 XX -40
Vacuum	2511 100 1028-40	2511 110 1028-40	2511 120 1028-40	2511 130 1028-40

With quick release coupling





	45°	90° S = 53 mm	90° S = 75 mm	90° S = 90 mm
2.0 gases	2511 102 10 XX -40	2511 112 10 XX -40	2511 122 10 XX -40	2511 132 10 XX -40
Vacuum	2511 102 1028-40	2511 112 1028-40	2511 122 1028-40	2511 132 1028-40

Replace XX with one of these media types:



21 · Compressed air



23 • Nitrogen



24 • Carbon dioxide



25 • Argon



26 · Helium



28 · Low vacuum (1000 to 1 mbar)

TECHNICAL GASES 4.0 & OXYGEN

Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792. Inlet/outlet: BROEN-LAB UniFlex™

Weight: 0.7 kg

Test pressure: 1.5 x working pressure

Headwork: Needle

Opening/closing function: 3 x 360° Max. working pressure: 16 bar / 232 psi

Headwork: Micro flow

Opening/closing function: 7.5 x 360° Max. working pressure: 16 bar / 232 psi

Materials with media contact

Metals: Brass Rubber: FKM Plastics: PVDF

Lubricant: Perfluoropolyether based (Oxygen approved)

All components are ultrasonically cleaned for 99,99% clean gases

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- a valve for front side mounting
- a valve without mounting kit

For further information, please contact your BROEN-LAB representative.



Available with or without service valve according to product numbers listed below

Configuration options





Without service valve	Without service valve	With service valve	With service valve
Needle headwork	Micro flow headrwork	Needle headwork	Micro flow headrwork
2511 527 10 XX	2511 550 10 XX	2511 528 10 XX	

Replace XX with one of these media types:



21 · Compressed air



22 · Oxygen



23 · Nitrogen



24 · Carbon dioxide



25 • Argon



26 · Helium



27 • Dinitrogen monoxide

TECHNICAL GASES 4.0 & OXYGEN

Specifications

BROEN-LAB UniFlex[™] outlets have an integrated media indication according to EN 13792.
Inlet/outlet: BROEN-LAB UniFlex[™]
Max. wall thickness: 20mm

Max. Wall trickriess. 2011

Weight: 0.5 kg

Materials with media contact

Metals: Brass Rubber: FKM Plastics: PVDF

Lubricant: Perfluoropolyether based (Oxygen approved)

All components are ultrasonically cleaned for 99,99% clean gases

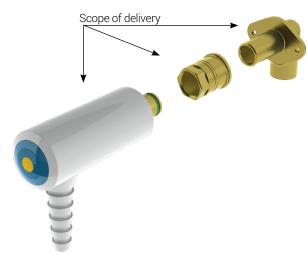
Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- other media
- flange
- removable nozzle
- other standout
- straight rear wall connection
- wall thickness 20-40mm
- table mounting
- additional support in case of a thin panel

For further information, please contact your BROEN-LAB representative.



Addional mounting information see page 30-33

With fixed nozzle





45°	90° S = 53 mm	90° S = 75 mm	90° S = 90 mm
2511 108 10 XX -40	2511 118 10 XX -40	2511 128 10 XX -40	2511 138 10 XX -40

With quick release coupling





45°	90° S = 53 mm	90° S = 75 mm	90° S = 90 mm
2511 185 10 XX -40	2511 186 10 XX -40	2511 187 10 XX -40	2511 190 10 XX -40

Replace XX with one of these media types:



21 · Compressed air



22 • Oxygen



23 • Nitrogen



24 • Carbon dioxide



25 • Argon



26 • Helium



27 • Dinitrogen monoxide

PURE 5.0 GASES

Specifications

Valve can be used for non-corrosive and inactive gases with purity coefficient up to 5.0 (99.999% pure gases).

Handle: Metal, BROEN-LAB POLYCOAT powder coated

with media indication according to EN13792.

Inlet/outlet: BROEN-LAB UniFlex™ Leak rate: < 5x10-5 mbar x l/s [Helium]

Weight: 0.7 kg

Test pressure: 1.5 x working pressure

Headwork: Needle

Opening/closing function: 3 x 360° Max. working pressure: 21 bar / 305 psi

Headwork: Micro flow

Opening/closing function: 7.5 x 360° Max. working pressure: 16 bar / 232 psi

Shut-off Valve Headwork: Stop

Opening/closing function: 1.5 x 360° Max. working pressure: 21 bar / 305 psi

Materials with media contact

Metals: Brass Rubber: FKM Plastics: PVDF

Lubricant: Perfluoropolyether based (Oxygen approved)

All components are ultrasonically cleaned for 99,999% clean gases

Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- a valve for front side mounting
- a valve without mounting kit
- inlet/outlet with female 1/4 NPT thread

For further information, please contact your BROEN-LAB representative.

Configuration options



	Shut-off valve	Needle valve	Micro flow valve
Fixed nozzle	2511 543 10 XX	2511 542 10 XX	2511 553 10 XX

Replace XX with one of these media types:



21 • Compressed air



22 • Oxygen



23 • Nitrogen



24 • Carbon dioxide



25 • Argon



26 · Helium



27 • Dinitrogen monoxide



PURE 5.0 GASES

Specifications

Outlets can be used for non-corrosive and inactive gases with purity coefficient up to 5.0 (99,999% pure gases).

BROEN-LAB UniFlexTM outlets have an integrated media indication according to EN 13792. Inlet: BROEN-LAB UniFlexTM Outlet: Female 1/4 NPT Leak rate: < 5x10-5 mbar x l/s [Helium] Max. wall thickness: 20mm Weight: 0.5 kg

Materials with media contact

Metals: Brass Rubber: FKM Plastics: PVDF

Lubricant: Perfluoropolyether based (Oxygen approved)

All components are ultrasonically cleaned for 99,999% clean gases.

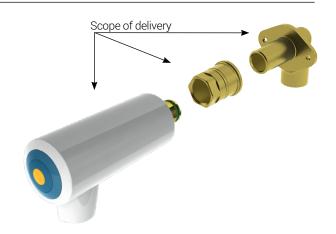
Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- other media
- flange
- straight rear wall connection
- wall thickness 20-40mm
- table mounting
- additional support in case of a thin panel
- Swagelok® tube fittings
- inlet with female 1/4 NPT thread

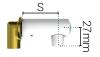
For further information, please contact your BROEN-LAB representative.



Addional mounting information see page 30-33

Configuration options





45°	90° S = 53 mm	90° S = 75 mm	90° S = 90 mm
2511 109 10 XX -40	2511 119 10 XX- 40	2511 129 10 XX -40	2511 139 10 XX -40

Replace XX with one of these media types:



21 · Compressed air



22 • Oxygen



23 • Nitrogen



24 • Carbon dioxide



25 · Argon



26 • Helium



27 • Dinitrogen monoxide

PURE 6.0 GASES

Specifications

Valve can be used for non-corrosive and inactive gases with purity coefficient up to 6.0 (99.9999% pure gases).

Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792. Headwork: Diaphragm type Opening/closing function: 1.5 x 360° Max. working pressure: 21 bar / 305 psi Test pressure: 1.5 x working pressure Inlet/outlet: Female 1/4" NTP thread Leak rate: < 10-7 mbar x l/s [Helium] Weight: 0.7 kg



Materials with media contact

Metals: Brass Plastics: PVDF

Diaphragm: Stainless Steel Alloy

Ordering information

For standard configuration please refer to the item numbers below.

Media should be defined when ordering.

Other options:

- Swagelok® tube fittings

For further information, please contact your BROEN-LAB representative.

Configuration options





	Stop valve	Flow valve
All media	02 460.009-9023	02 462.009-9023

Media should be defined when ordering. Delivered with mounting accessories

PURE 6.0 GASES

Specifications

BROEN-LAB CLEANLINE outlets for 6.0 gases can be used for mounting in the fume hoods in combination with BROEN-LAB CLEANLINE fittings with rear outlet connections.

Inlet connection: Female 1/4"NPT - male 1/2"NPT (see ordering information for other options)

Outlet connection: Female 1/4"NPT (see ordering information for other options)

Leak rate: < 10-7 mbar x l/s [He]

Weight: 0.5 kg

Materials with media contact Metals: Brass or Stainless Steel



Configuration options







	45°	Straight	Bulk head union
Brass (powder coated, RAL 9023)	02869529-9023	02861529-9023	02566009-9023
Stainless Steel	02869533	02861533	

CORROSIVE GAS

Specifications

Valve can be used for corrosive gases with purity coefficient up to 6.0 (99.9999% pure gases).

Handle: Metal, BROEN-LAB POLYCOAT powder coated with media indication according to EN13792.

Headwork: Diaphragm type
Opening/closing function: 1.5 x 360°

Max. working pressure: 16 bar / 232 psi
Test pressure: 1.5 x working pressure
Inlet/outlet: SS tubes for OD 8mm
Leak rate: < 10-7 mbar x l/s [Helium]



Materials with media contact

Metals: Stainless Steel (AISI 316L)

Plastics: PVDF

Weight: 0.7 kg

Ordering information

For standard configuration please refer to the item numbers below.

Media should be defined when ordering.

Other options:

- a valve without mounting kit

For further information, please contact your BROEN-LAB representative.

To connect flexible pipes to this solutions, remember to offer three Swagelok® from page 29. See how to install the solution on page 33.

Configuration options



	Without service valve
Corrosive gases	2511 539 1099

Media should be defined when ordering. Delivered with mounting accessories

CORROSIVE GAS

Specifications

Outlets can be used for corrosive gases with purity coefficient up to 6.0 (99.9999% pure gases).

BROEN-LAB UniFlex™ outlets have an integrated media indication according to EN 13792.

Inlet: OD 8mm / ID 6mm
Leak rate: < 10-7 mbar x l/s [Helium]
Max. wall thickness: 20mm
Weight: 0.6 kg

Materials with media contact

Metals: Stainless Steel (AISI 316L)

Plastics: PVDF

Ordering information

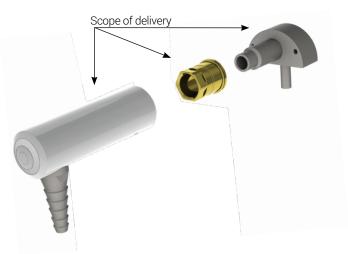
For standard configuration please refer to the item numbers below.

Media should be defined when ordering.

Other options:

- flange
- wall thickness 20-40mm
- additional support in case of a thin panel

For further information, please contact your BROEN-LAB representative.



Addional mounting information see page 30-33

To connect flexible pipes to this solutions, remember to offer three Swagelok $\ \$ from page 29.

See how to install the solution on page 33.

With fixed nozzle



	90°	90°	90°
	S = 53 mm	S = 75 mm	S = 90 mm
Corrosive gases	2511 150 10 XX -40	2511 151 10 XX -40	2511 152 10 XX -40

Media should be defined when ordering.

ACCESSORIES

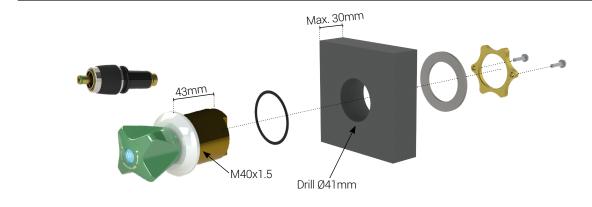
Illustration	Description	Media	BROEN-LAB item no.
Ø41mm	Flange (wall thickness 0-20mm)	All media	1521 0579G
Ø41mm	Flange (wall thickness 20-40mm)	All media	1521 1789G
	Nut (wall thickness 0-20mm)	All media	1521 036
	Nut (wall thickness 20-40mm)	All media	1521 054
34mm	Straight Rear Wall Connection	Water Burning gas Technical gases 2.0	1521 088
22mm 40mm	90° Rear Wall Connection	Water Burning gas Technical gases 2.0	1521 052
22mm 40mm	90° Rear Wall Connection	Special water	2511 492
22mm 40mm	90° Rear Wall Connection	Technical gases 4.0 + 5.0	1521 0520
	Rear Wall support plate	All media	1521 092
	Test equipment for outlets	Technical gases 2.0	1521 177

ACCESSORIES

Illustration	Description	Media	BROEN-LAB item no.
M 22mm 40mm	Rear wall connection for fume hoods with a double wall construction M = 49 to 61 mm M = 61 to 73 mm M = 73 to 85 mm M = 85 to 97 mm M = 97 to 109 mm	Water Burning gases Technical gases 2.0	2511 494 2511 497 2511 496 2511 495 2511 493
M 22mm 40mm	Rear wall connection for fume hoods with a double wall construction M = 61 to 73 mm M = 73 to 85 mm M = 85 to 97 mm M = 97 to 109 mm	Special water	1530 479 1530 515 1530 534 1530 481
M 22mm 40mm	Rear wall connection for fume hoods with a double wall construction M = 49 to 61 mm M = 61 to 73 mm M = 73 to 85 mm M = 85 to 97 mm	Technical gases 4.0 + 5.0	2511 4940 2511 4970 2511 4960 2511 4950
	Water jet filter pump for spouts (inlet: union nut G3/4, adapter to female G1/2 is included)	Water	1919 9009
	Water jet filter pump for straight outlets (inlet: union nut G3/4, adapter to female G3/8 is included)	Water	1530 4769
948	Swagelok® Union OD10-OD8	Water Special water Burning gases Technical gases 2.0	96i0160
910	Swagelok® Union OD10-OD8	Technical gases 4.0 + 5.0 + 6.0 Cleanline	96i01600

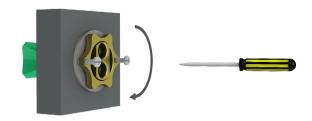
MOUNTING INSTRUCTIONS

FRONT CONTROL VALVES



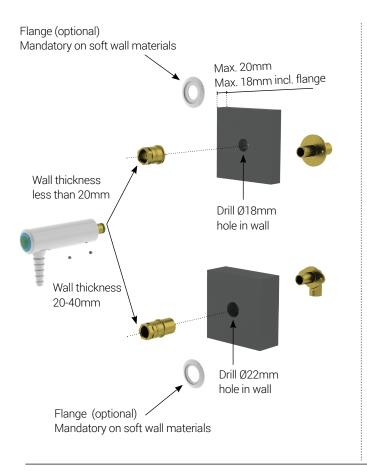


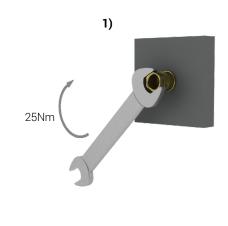


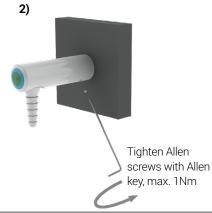


MOUNTING INSTRUCTIONS

OUTLETS







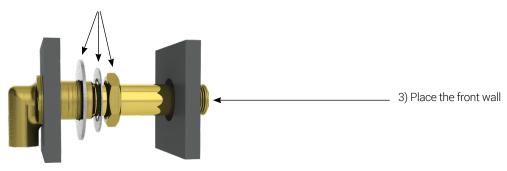
MOUNTING INSTRUCTIONS

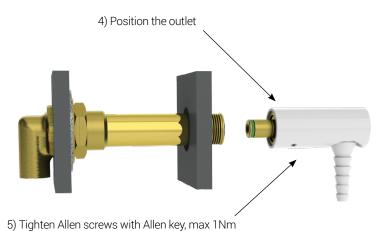
MOUNTING OF OUTLETS INTO FUME HOODS WITH A DOUBLE WALL CONSTRUCTION

1) Insert the rear wall connection through the back wall



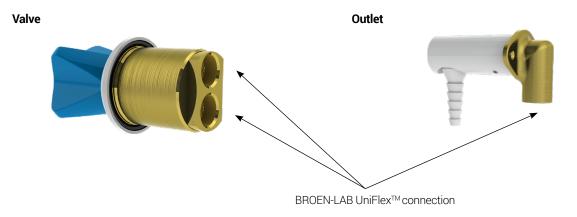
2) Fix the outlet to the back wall by tightening the nut





PIPE INSTALLATION

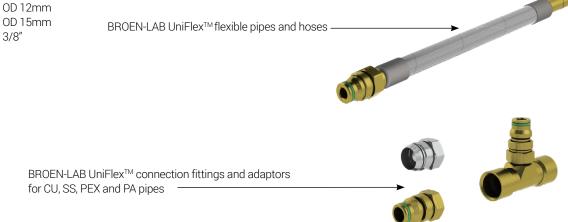
WATER / SPECIAL WATER (SS MODEL) / BURNING GASES / TECHNICAL GASES (2.0, 4.0 AND 5.0)



Pipe installation can be done either with flexible hoses or with standard CU, PEX or SS pipes.

BROEN-LAB has a wide range of flexible pipes and hoses available with BROEN-LAB UniFlex™ connections as well as connection fittings to fit pipes of the following sizes:

- OD 8mm
- OD 10mm
- OD 12mm
- 3/8"

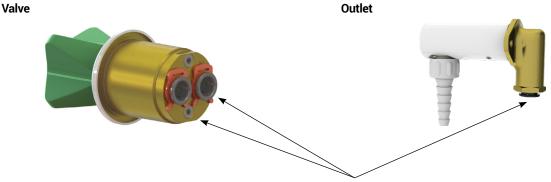


PIPE INSTALLATION

SPECIAL WATER (PP MODELS ONLY)

Please note that PP valves and outlets for special water are delivered with push-in fittings.

BROEN-LAB recommends the following materials for pipe installation:



Push-in fittings for OD10mm plastic tubing

BROEN-LAB recommends the following materials for pipe installation:

- PVDF (can be purchased at BROEN-LAB), LLDPE, PUR

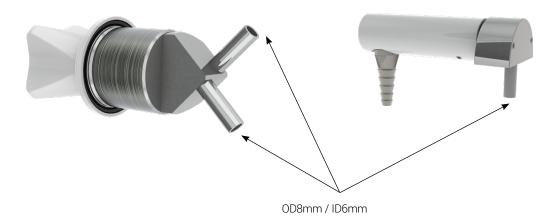
PIPE INSTALLATION

CORROSIVE GASES

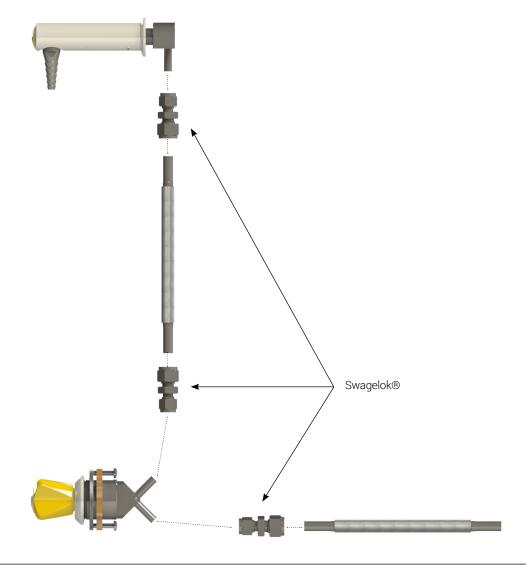
Please note that valves and outlets for corrosive gases are delivered in stainless steel and are prepared for orbital welding.

In case of outlet, welding process should take place before mounting into the fume hood.

Valve Outlet



See how to install the solution below.



NOTES	

NOTES				

HEADQUARTER

BROEN-LAB A/S

Drejervaenget 2 5610 Assens Denmark

Tel. +45 6376 6376

lab@broen-lab.com broen-lab.com

INTERNATIONAL OFFICES

BROEN-LAB Ltd.

Tel. +44 121 522 4515

lab@broen-lab.com broen-lab.com

BROEN-LAB Singapore Pte. Ltd.

25 International Business Park #04-60A German Centre Singapore 609916

Tel. +65 6298 0662

lab@broen-lab.com broen-lab.com

BROEN-LAB GmbH

Tel. +45 6376 6376

lab@broen-lab.com broen-lab.com

BROEN-LAB Sverige AB

Tel. +45 6376 6376

lab@broen-lab.com broen-lab.com

BROEN-LAB Inc.

15 Constitution Drive Suite 122 NH 03110 Bedford USA

Tel. +1 603 310 5089

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.