

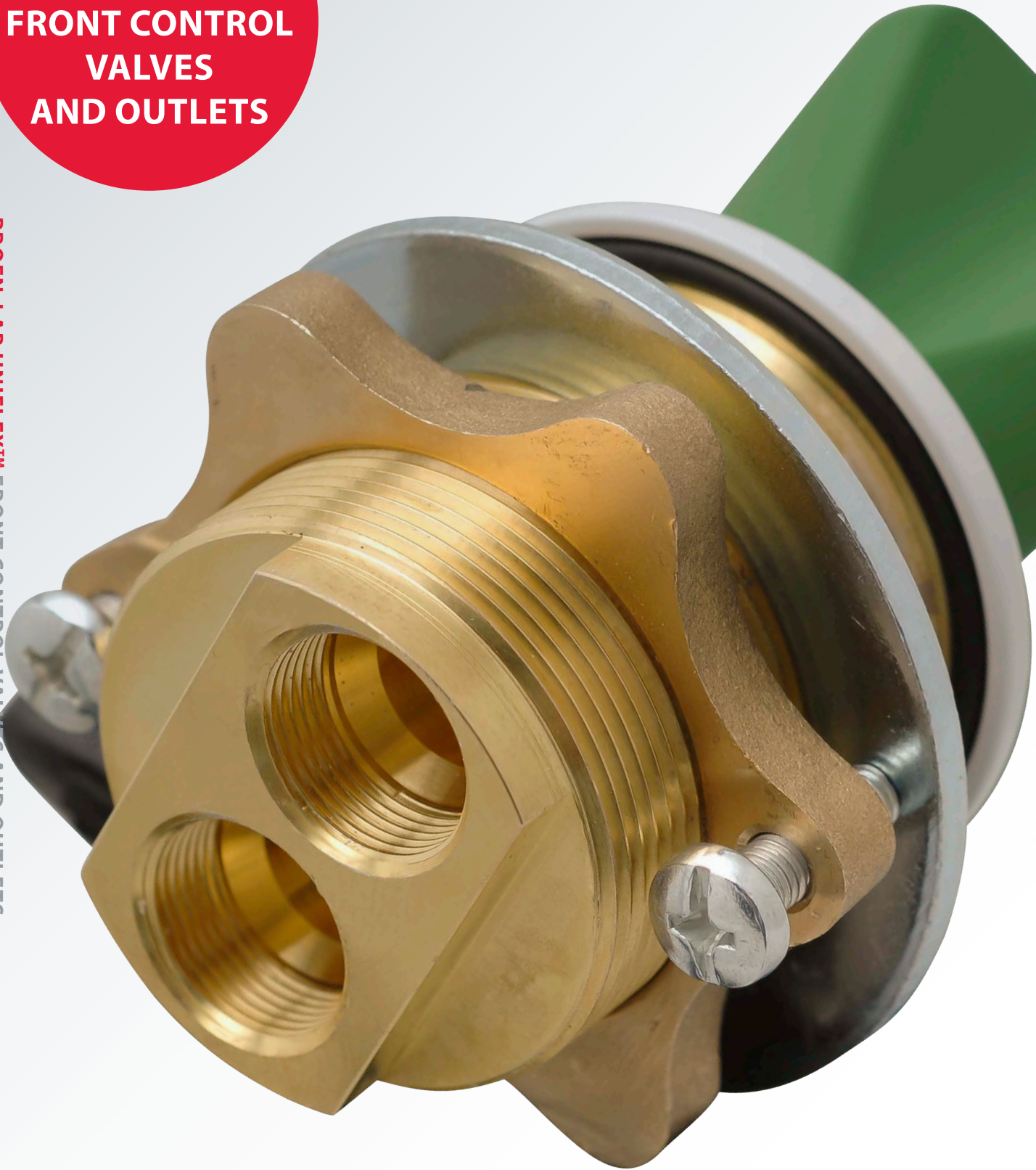
**BROEN-LAB
UNIFLEX™
FRONT CONTROL
VALVES
AND OUTLETS**



















BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

PREMIUM

BROEN-LAB



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PREMIUM

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

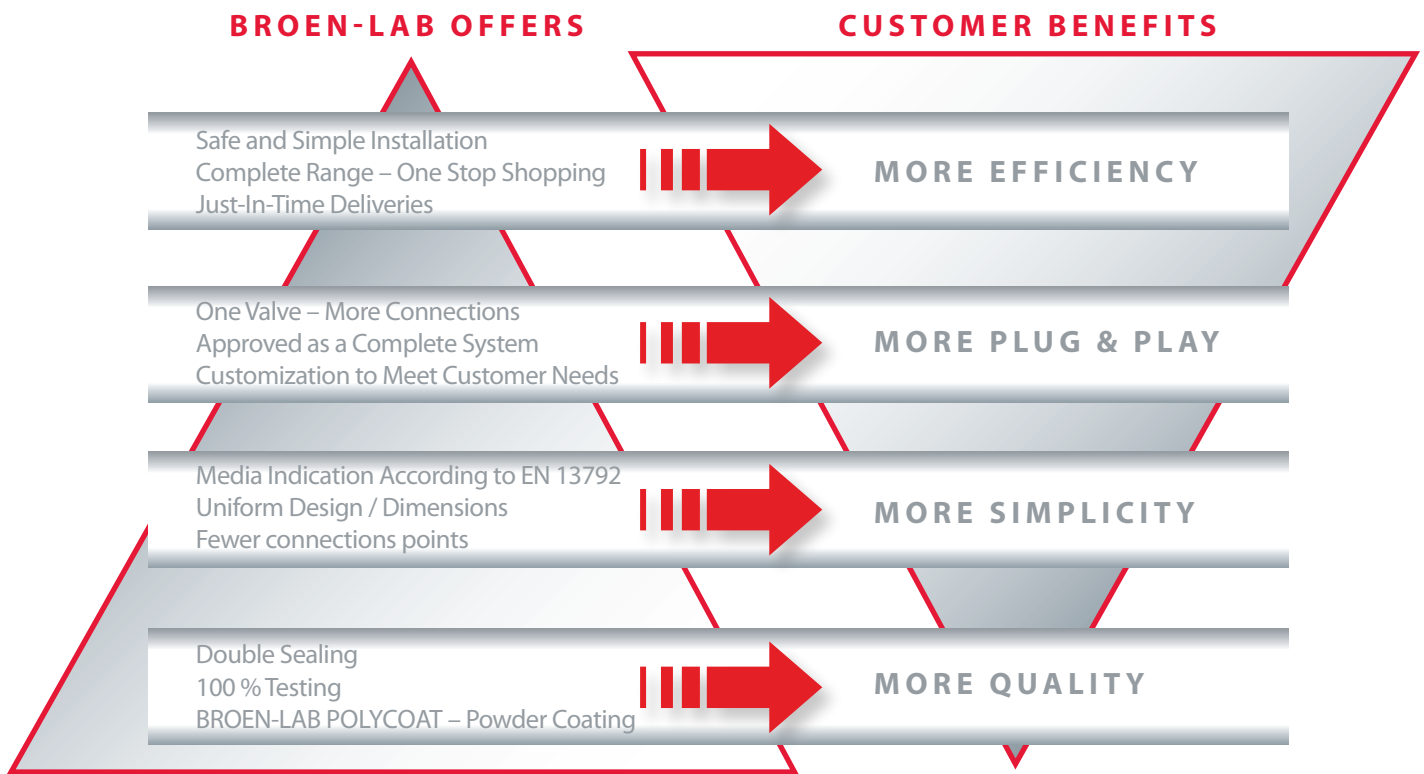
Horizontale und vertikale Schieber nicht gleichzeitig öffnen



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™ FRONT CONTROL VALVES AND OUTLETS

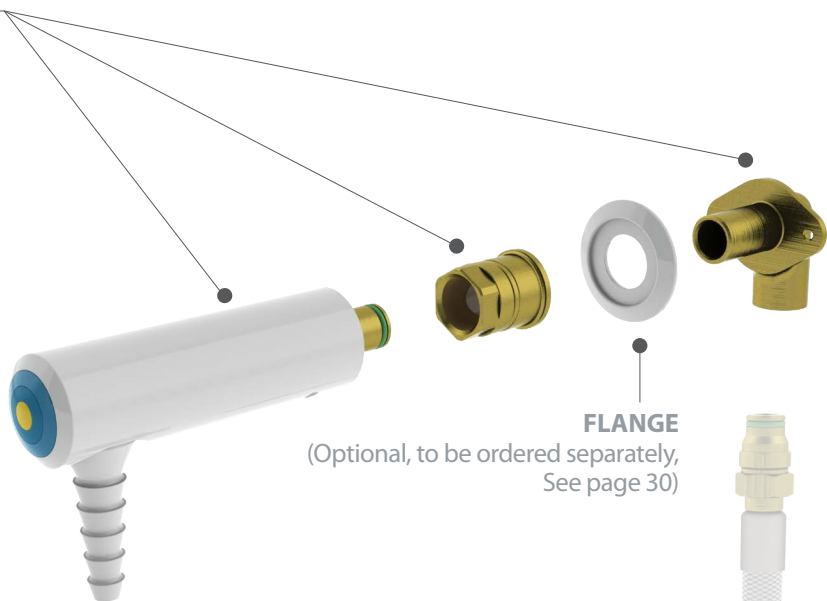


THIS IS BROEN-LAB UNIFLEX™

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).

OUTLETS










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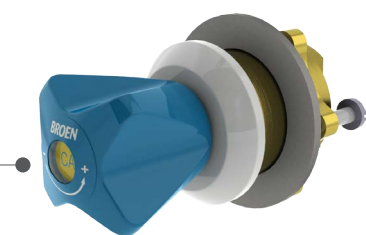


BROEN-LAB UniFlex™ flexible hoses

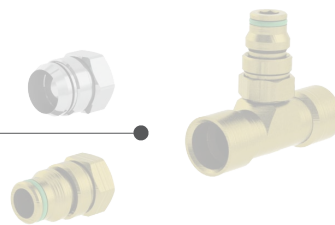


FRONT CONTROL VALVES

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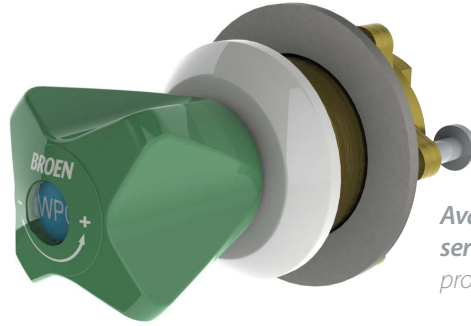


BROEN-LAB UniFlex™ connection fittings and adaptors for Cu, SS, PEX and PA pipes



BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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



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

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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

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.

MATERIALS WITH MEDIA CONTACT

Metals: Brass

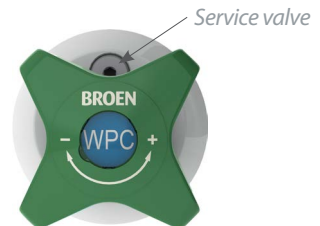
Rubber: EPDM

Plastics: POM

Lubricant: Silicone based

Ceramics: Al-oxyd 96%

Model



Media	Without service valve	With service valve
Potable water, cold	25115071001	25115081001
Potable water, hot	25115071002	25115081002
Non-potable water, cold	25115071007	25115081007
Non-potable water, hot	25115071008	25115081008

Delivered with mounting accessories



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

ORDERING INFORMATION

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.

MATERIALS WITH MEDIA CONTACT

Metals: Brass

Rubber: EPDM

Plastics: POM

Lubricant: Silicone based

Ceramics: Al-oxyd 96%

Model



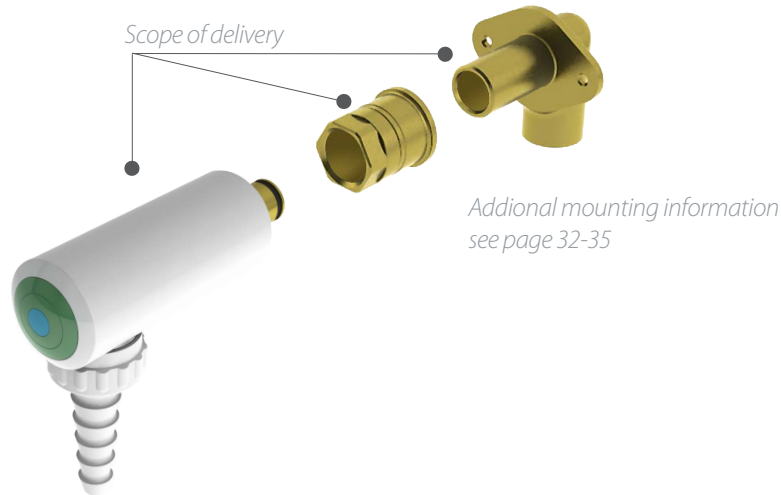
With flow and temperature regulation cartridge



With two step opening cartridge

Media	With flow and temperature regulation cartridge	With two step opening cartridge
Potable water, tempered	25115291035	25115311035
Non-potable water, tempered	25115291037	25115311037

Delivered with mounting accessories



BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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 (swivel spout: 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.

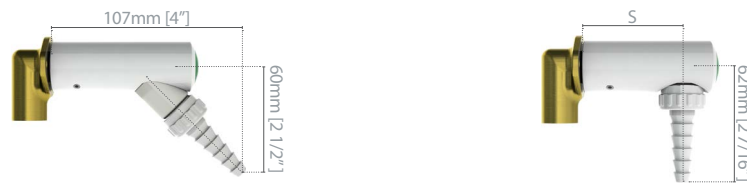
Other options:

- 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.

WITH REMOVABLE NOZZLE

Model / Standout

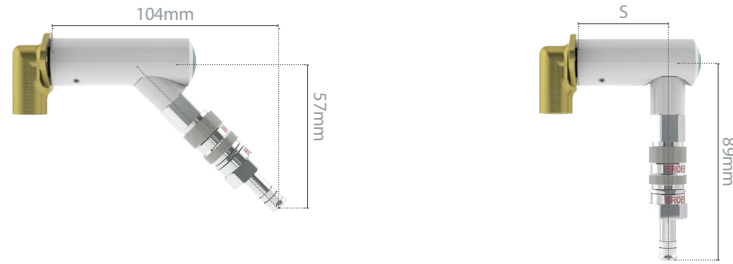


Media	45°	S = 53mm	S = 75mm	S = 90mm
Potable water, cold	25111011001-40	25111111001-40	25111211001-40	25111311001-40
Potable water, hot	25111011002-40	25111111002-40	25111211002-40	25111311002-40
Non-potable water, cold	25111011007-40	25111111007-40	25111211007-40	25111311007-40
Non-potable water, hot	25111011008-40	25111111008-40	25111211008-40	25111311008-40
Potable water, tempered	25111011035-40	25111111035-40	25111211035-40	25111311035-40
Non-potable water, tempered	25111011037-40	25111111037-40	25111211037-40	25111311037-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

WITH QUICK RELEASE COUPLING

Model / Standout

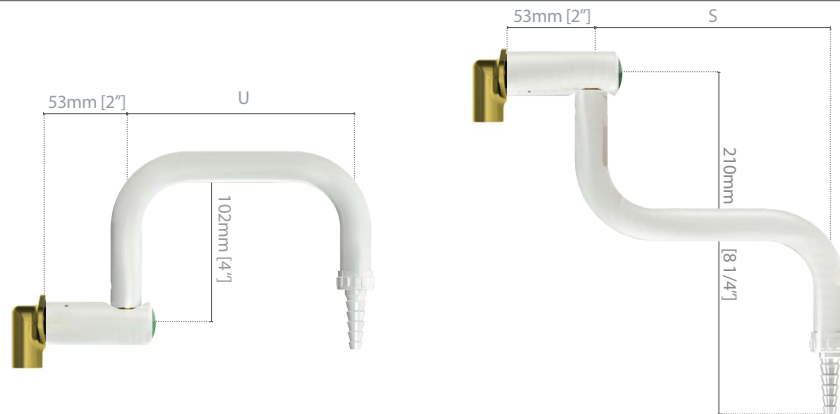


Media	45°	S = 53mm	S = 75mm	S = 90mm
Potable water, cold	25111021001-40	25111121001-40	25111221001-40	25111321001-40
Potable water, hot	25111021002-40	25111121002-40	25111221002-40	25111321002-40
Non-potable water, cold	25111021007-40	25111121007-40	25111221007-40	25111321007-40
Non-potable water, hot	25111021008-40	25111121008-40	25111221008-40	25111321008-40
Potable water, tempered	25111021035-40	25111121035-40	25111221035-40	25111321035-40
Non-potable water, tempered	25111021037-40	25111121037-40	25111221037-40	25111321037-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

WITH SWIVEL SPOUT

Model / Standout

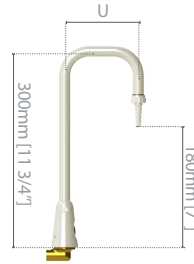


Media	U = 150mm	U = 200mm	S = 150mm	S = 200mm
Potable water, cold	25112121001-40	25112131001-40	25112141001-40	25112151001-40
Potable water, hot	25112121002-40	25112131002-40	25112141002-40	25112151002-40
Non-potable water, cold	25112121007-40	25112131007-40	25112141007-40	25112151007-40
Non-potable water, hot	25112121008-40	25112131008-40	25112141008-40	25112151008-40
Potable water, tempered	25112121035-40	25112131035-40	25112141035-40	25112151035-40
Non-potable water, tempered	25112121037-40	25112131037-40	25112141037-40	25112151037-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

BENCH MOUNTED OUTLET WITH SWIVEL SPOUT

Model / Standout

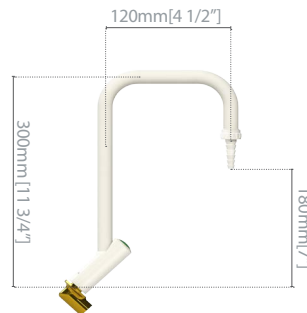


Media	U = 120mm	U = 150mm
Potable water, cold	25113041001-40	25113001001-40
Potable water, hot	25113041002-40	25113001002-40
Non-potable water, cold	25113041007-40	25113001007-40
Non-potable water, hot	25113041008-40	25113001008-40
Potable water, tempered	25113041035-40	25113001035-40
Non-potable water, tempered	25113041037-40	25113001037-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

45° OUTLET WITH FIXED OR SWIVEL SPOUT

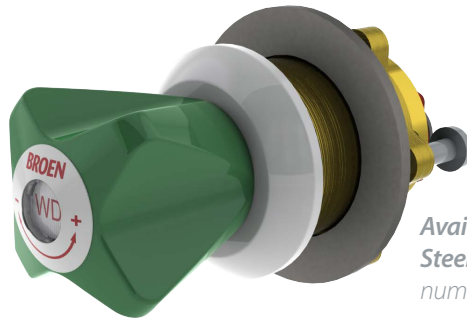
Model / Standout



Media	Fixed spout	Swivel spout
Potable water, cold	25113071001-40	25113081001-40
Potable water, hot	25113071002-40	25113081002-40
Non-potable water, cold	25113071007-40	25113081007-40
Non-potable water, hot	25113071008-40	25113081008-40
Potable water, tempered	25113071035-40	25113081035-40
Non-potable water, tempered	25113071037-40	25113081037-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS



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

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™

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.

MATERIALS WITH MEDIA CONTACT

PP VALVE

Diaphragm: PTFE
Plastics: PP

SS VALVE

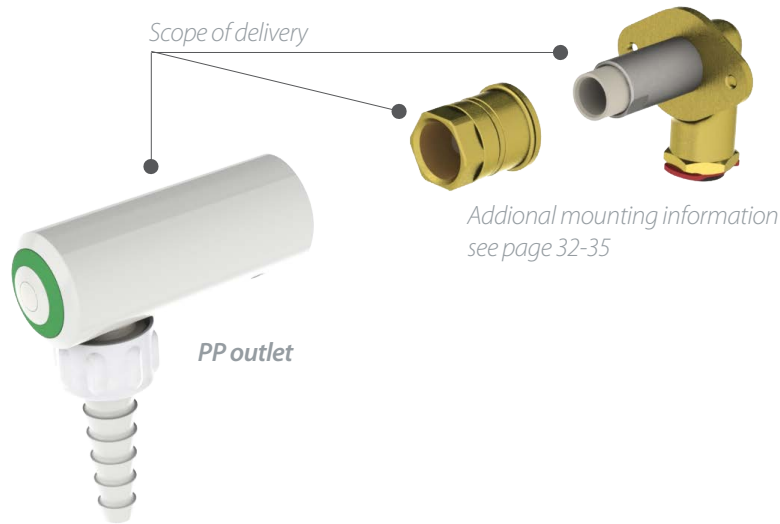
Diaphragm: PTFE
Metals: SS (AISI 316)

Model



Media	PP valve	SS valve
Distilled water	25115331003	25115351003
Deionised water, cold	25115331036	25115351036

Delivered with mounting accessories



BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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.

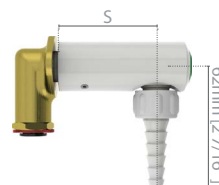
Other options:

- 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.

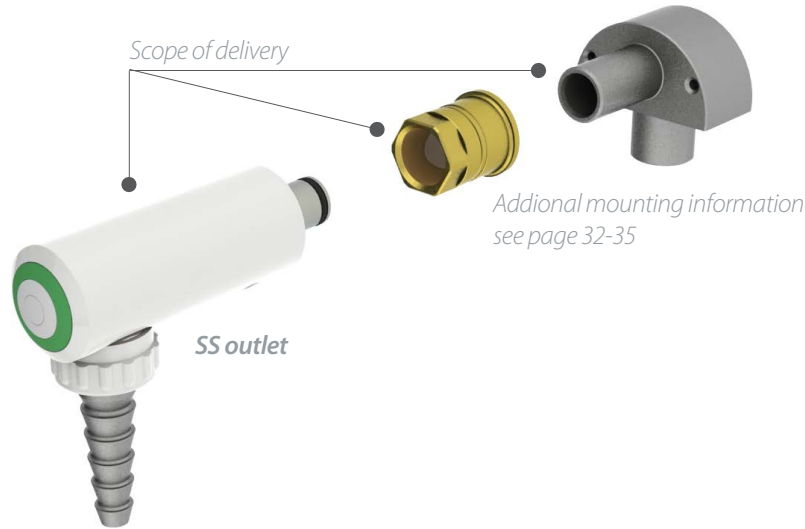
WITH REMOVABLE NOZZLE

Model / Standout



Media	S = 53mm	S = 75mm	S = 90mm
Distilled water	25111161003-40	25111261003-40	25111361003-40
Deionised water, cold	25111161036-40	25111261036-40	25111361036-40

Delivered with 90° rear wall connection (max wall thickness 20mm)



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.

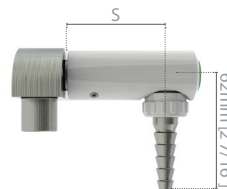
Other options:

- 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.

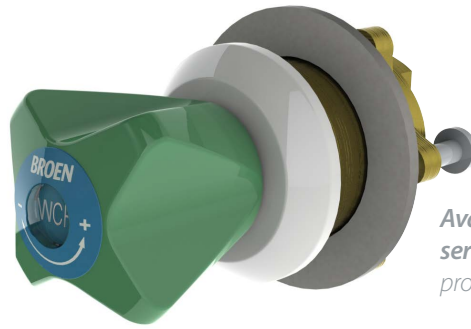
WITH REMOVABLE NOZZLE

Model / Standout



Media	S = 53mm	S = 90mm
Distilled water	25111171003-40	25111371003-40
Deionised water, cold	25111171036-40	25111371036-40

Delivered with 90° rear wall connection (max wall thickness 20mm)



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

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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™
- 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:

- 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.

Model



Media	Without service valve	With service valve
Coolant water, feed	25115031005	25115041005
Coolant water, return	25115031006	25115041006

Delivered with mounting accessories



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.

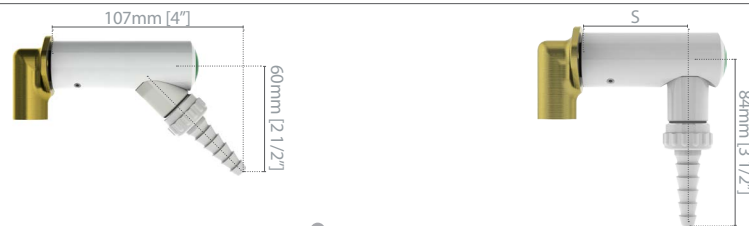
Other options:

- 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

Model / Standout

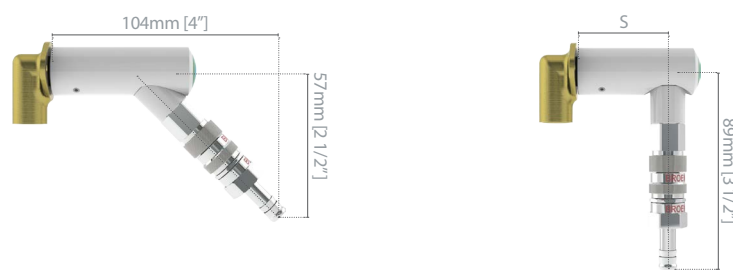


Media	45°	S = 53mm	S = 75mm	S = 90mm
Coolant water, feed	25111041005-40	25111141005-40	25111241005-40	25111341005-40
Coolant water, return	25111041006-40	25111141006-40	25111241006-40	25111341006-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

WITH QUICK RELEASE COUPLING AND NON-RETURN VALVE (RETURN ONLY)

Model / Standout



Media	45°	S = 53mm	S = 75mm	S = 90mm
Coolant water, feed	25111021005-40	25111121005-40	25111221005-40	25111321005-40
Coolant water, return	25111051006-40	25111151006-40	25111251006-40	25111351006-40

Delivered with 90° rear wall connection (max wall thickness 20mm)



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

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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

ORDERING INFORMATION

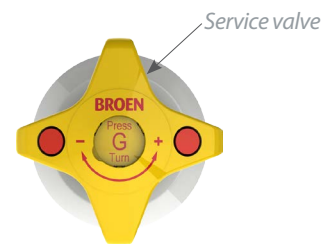
For standard configuration please refer to the item numbers below.

Other options:

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

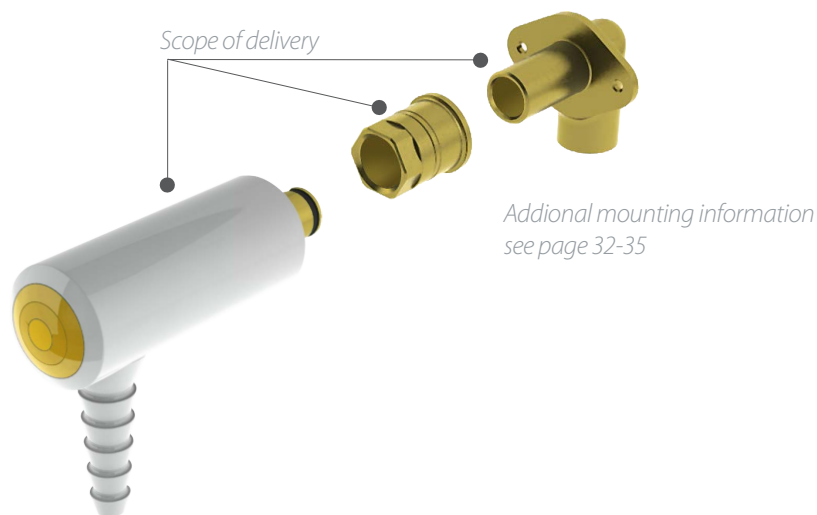
For further information, please contact your BROEN-LAB representative.

Model



Media	Without service valve	With service valve
Natural gas	25115191010	25115201010
Propane/Butane (Liquified gases)	25115191012	25115201012
Butane	25115191014	25115201014
Propane	25115191016	25115201016
Acetylene	25115191018	25115201018
Hydrogen	25115191020	25115201020

Delivered with mounting accessories



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.

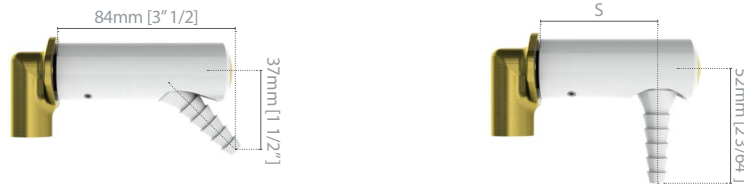
Other options:

- 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.

WITH FIXED NOZZLE

Model / Standout



Media	45°	S = 53mm	S = 75mm	S = 90mm
Natural gas	25111001010-40	25111101010-40	25111201010-40	25111301010-40
Propane/Butane (liquified gases)	25111001012-40	25111101012-40	25111201012-40	25111301012-40
Butane	25111001014-40	25111101014-40	25111201014-40	25111301014-40
Propane	25111001016-40	25111101016-40	25111201016-40	25111301016-40
Acetylene	25111001018-40	25111101018-40	25111201018-40	25111301018-40
Hydrogen	25111001020-40	25111101020-40	25111201020-40	25111301020-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

WITH QUICK RELEASE COUPLING

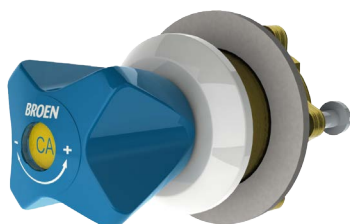
Model / Standout



Media	45°	S = 53mm	S = 75mm	S = 90mm
Natural gas	25111021010-40	25111121010-40	25111221010-40	25111321010-40
Propane/Butane (liquified gases)	25111021012-40	25111121012-40	25111221012-40	25111321012-40
Butane	25111021014-40	25111121014-40	25111221014-40	25111321014-40
Propane	25111021016-40	25111121016-40	25111221016-40	25111321016-40
Acetylene	25111021018-40	25111121018-40	25111221018-40	25111321018-40
Hydrogen	25111021020-40	25111121020-40	25111221020-40	25111321020-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS



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

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

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.

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.

Model

Without service valve

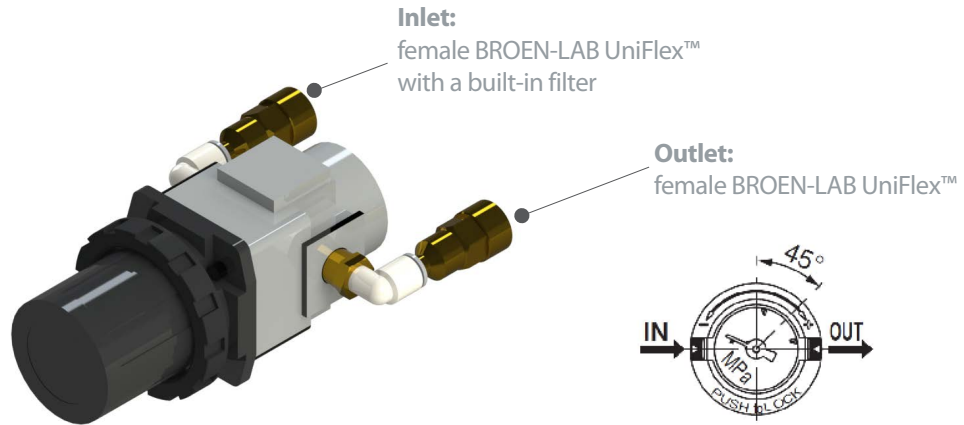


With service valve



Media	Without service valve		With service valve	
	Needle headwork	Micro flow headwork	Needle headwork	Micro flow headwork
Compressed air	25115111021	25115461021	25115121021	25115471021
Nitrogen	25115111023	25115461023	25115121023	25115471023
Carbogen Dioxide	25115111024	25115461024	25115121024	25115471024
Argon	25115111025	25115461025	25115121025	25115471025
Helium	25115111026	25115461026	25115121026	25115471026
	High flow headwork		High flow headwork	
Low vacuum (1000 to 1 mbar)	25115151028		25115161028	

Delivered with mounting accessories



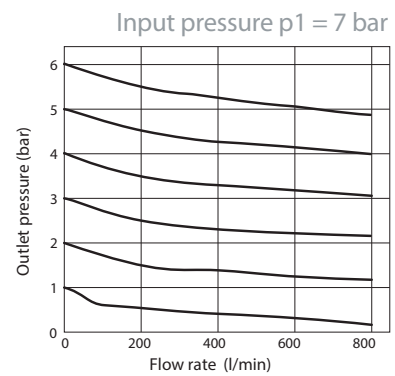
BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

SPECIFICATIONS

BROEN-LAB UniFlex™ pressure regulator for panel mounting with a built-in filter (mesh size 200 µm) 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

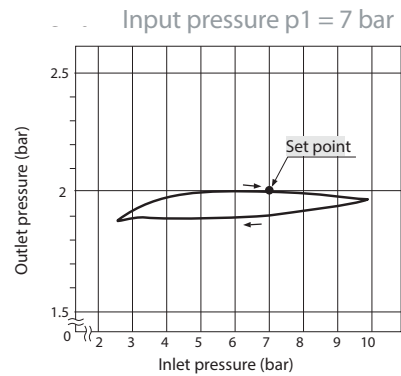
FLOW CHART



MATERIALS WITH MEDIA CONTACT

- Metals:** Brass, zinc die-cast
- Rubber:** NBR, FKM
- Plastics:** POM
- Lubricant:** Perfluoropolyether based

PRESSURE CHARACTERISTICS



ORDERING INFORMATION

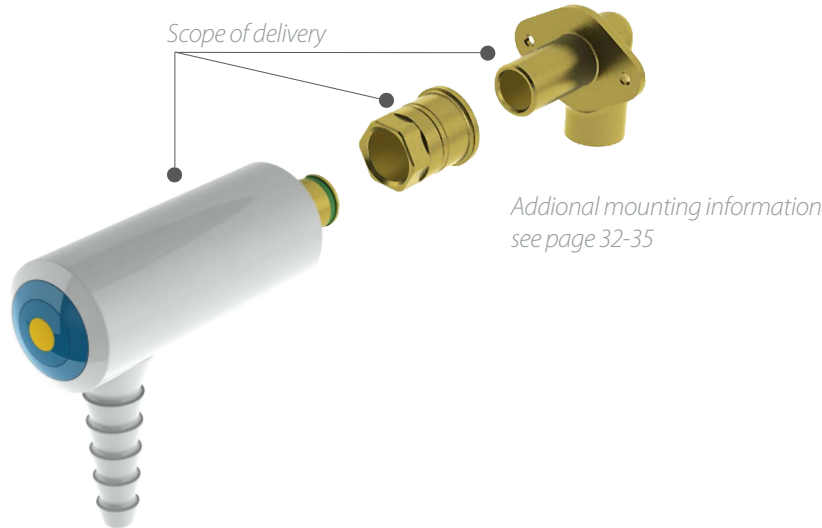
For standard configuration please refer to the item numbers below.

Model

Media*

CA	Compressed air	2599 366 1099
N ₂	Nitrogen	2599 366 1099
CO ₂	Carbon Dioxide	2599 366 1099
Ar	Argon	2599 366 1099

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



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: 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.

WITH FIXED NOZZLE

Model / Standout

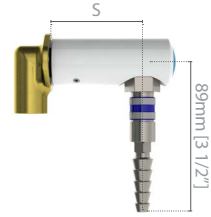
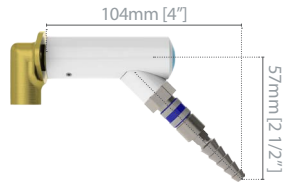


Media	45°	S = 53mm	S = 75mm	S = 90mm
Compressed air	25111001021-40	25111101021-40	25111201021-40	25111301021-40
Nitrogen	25111001023-40	25111101023-40	25111201023-40	25111301023-40
Carbon dioxide	25111001024-40	25111101024-40	25111201024-40	25111301024-40
Argon	25111001025-40	25111101025-40	25111201025-40	25111301025-40
Helium	25111001026-40	25111101026-40	25111201026-40	25111301026-40
Low vacuum (1000 to 1 mbar)	25111001028-40	25111101028-40	25111201028-40	25111301028-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

WITH QUICK RELEASE COUPLING

Model / Standout

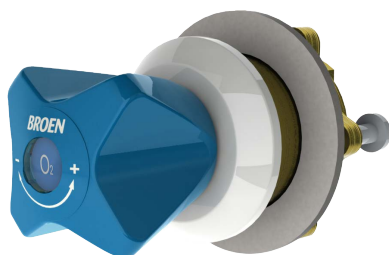


Media	45°	S = 53mm	S = 75mm	S = 90mm
Compressed air	25111021021-40	25111121021-40	25111221021-40	25111321021-40
Nitrogen	25111021023-40	25111121023-40	25111221023-40	25111321023-40
Carbon dioxide	25111021024-40	25111121024-40	25111221024-40	25111321024-40
Argon	25111021025-40	25111121025-40	25111221025-40	25111321025-40
Helium	25111021026-40	25111121026-40	25111221026-40	25111321026-40
Low vacuum (1000 to 1 mbar)	25111021028-40	25111121028-40	25111221028-40	25111321028-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS





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

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.

Model

Without service valve

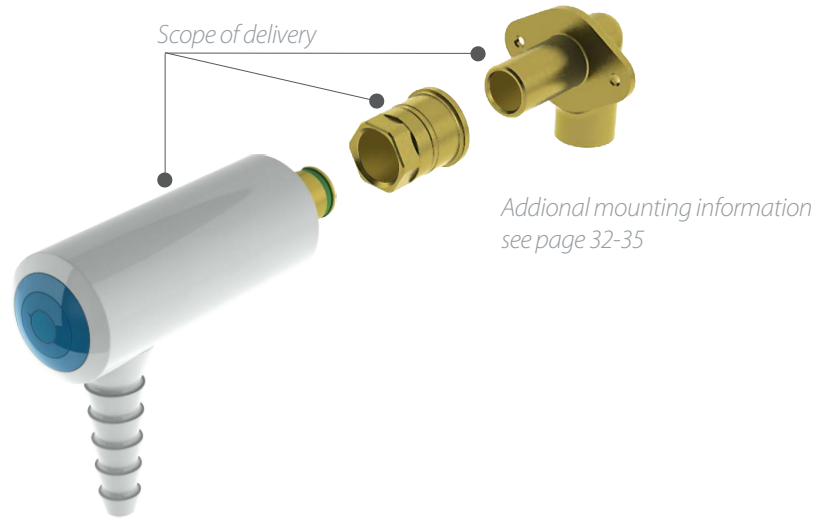


With service valve



Media	Needle headwork	Micro flow headwork	Needle headwork	Micro flow headwork
Compressed air	25115271021	25115501021	25115281021	25115511021
Oxygen	25115271022	25115501022	25115281022	25115511022
Nitrogen	25115271023	25115501023	25115281023	25115511023
Carbon Dioxide	25115271024	25115501024	25115281024	25115511024
Argon	25115271025	25115501025	25115281025	25115511025
Helium	25115271026	25115501026	25115281026	25115511026
Dinitrogen Monoxide	25115271027	25115501027	25115281027	25115511027

Delivered with mounting accessories



BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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: 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.



WITH FIXED NOZZLE

Model / Standout

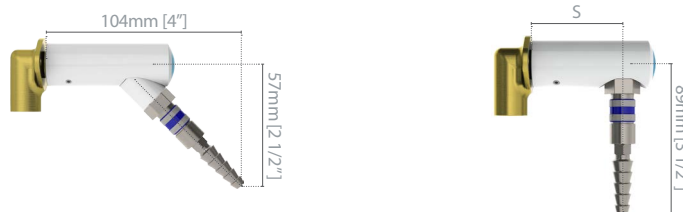


Media	45°	S = 53mm	S = 75mm	S = 90mm
Compressed air	25111081021-40	25111181021-40	25111281021-40	25111381021-40
Oxygen	25111081022-40	25111181022-40	25111281022-40	25111381022-40
Nitrogen	25111081023-40	25111181023-40	25111281023-40	25111381023-40
Carbon dioxide	25111081024-40	25111181024-40	25111281024-40	25111381024-40
Argon	25111081025-40	25111181025-40	25111281025-40	25111381025-40
Helium	25111081026-40	25111181026-40	25111281026-40	25111381026-40
Dinitrogen monoxide	25111081027-40	25111181027-40	25111281027-40	25111381027-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

WITH QUICK RELEASE COUPLING

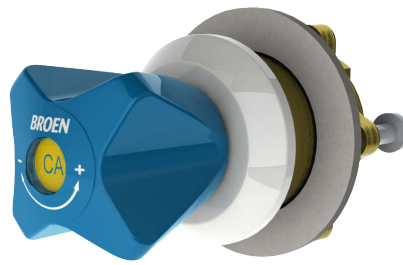
Model / Standout



Media	45°	S = 53mm	S = 75mm	S = 90mm
Compressed air	25111851021-40	25111861021-40	25111871021-40	25111901021-40
Oxygen	25111851022-40	25111861022-22	25111871022-22	25111901022-22
Nitrogen	25111851023-40	25111861023-40	25111871023-40	25111901023-40
Carbon dioxide	25111851024-40	25111861024-40	25111871024-40	25111901024-40
Argon	25111851025-40	25111861025-40	25111871025-40	25111901025-40
Helium	25111851026-40	25111861026-40	25111871026-40	25111901026-40
Dinitrogen monoxide	25111851027-40	25111861027-40	25111871027-40	25111901027-40

Delivered with 90° rear wall connection (max wall thickness 20mm)

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS



BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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

FLOW VALVES

Headwork: Needle

Headwork: Micro flow

Opening/closing function: 3 x 360°

Opening/closing function: 7.5 x 360°

Max. working pressure: 21 bar / 305 psi

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

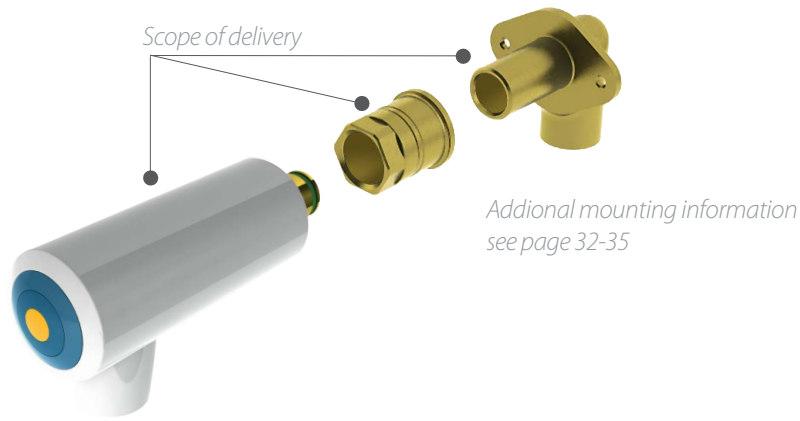
For further information, please contact your BROEN-LAB representative.

Model



Media	Shut-off valve	Needle headwork	Micro flow headwork
Compressed air	25115431021	25115421021	25115531021
Oxygen	25115431022	25115421022	25115531022
Nitrogen	25115431023	25115421023	25115531023
Carbon Dioxide	25115431024	25115421024	25115531024
Argon	25115431025	25115421025	25115531025
Helium	25115431026	25115421026	25115531026

Delivered with mounting accessories



SPECIFICATIONS

Outlets can be used for non-corrosive and inactive gases with purity coefficient up to 5.0 (99,999% pure gases).
 BROEN-LAB UniFlex™ outlets have an integrated media indication according to EN 13792.
Inlet: BROEN-LAB UniFlex™
Outlet: Female 1/4 NPT
Leak rate: 5×10^{-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

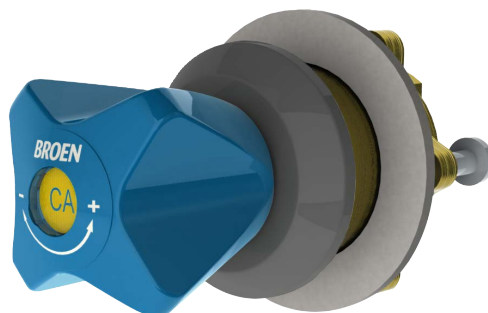
For further information, please contact your BROEN-LAB representative.

Model / Standout



Media	45°	S = 53mm	S = 75mm	S = 90mm
Compressed air	25111091021-40	25111191021-40	25111291021-40	25111391021-40
Oxygen	25111091022-40	25111191022-40	25111291022-40	25111391022-40
Nitrogen	25111091023-40	25111191023-40	25111291023-40	25111391023-40
Carbon dioxide	25111091024-40	25111191024-40	25111291024-40	25111391024-40
Argon	25111091025-40	25111191025-40	25111291025-40	25111391025-40
Helium	25111091026-40	25111191026-40	25111291026-40	25111391026-40

Delivered with 90° rear wall connection (max wall thickness 20mm)



BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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

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.

MATERIALS WITH MEDIA CONTACT

Metals: Brass

Plastics: PVDF

Diaphragm: Stainless Steel Alloy

Model



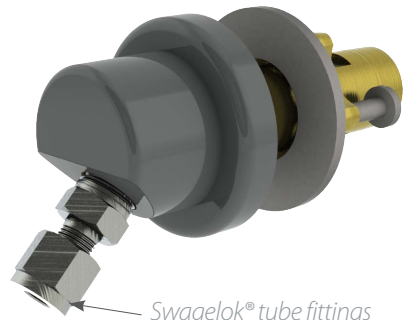
Stop valve



Flow valve

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

Delivered with mounting accessories



Swagelok® tube fittings must be ordered separately

SPECIFICATIONS

Outlets can be used for non-corrosive and inactive gases with purity coefficient up to 6.0 (99,9999% pure gases).

Inlet/outlet: Female 1/4 NPT thread

Leak rate: < 10⁻⁷ mbar x l/s [Helium]

Weight: 0.5 kg

MATERIALS WITH MEDIA CONTACT

Metals: Brass (Stainless Steel for bulk head union outlet)

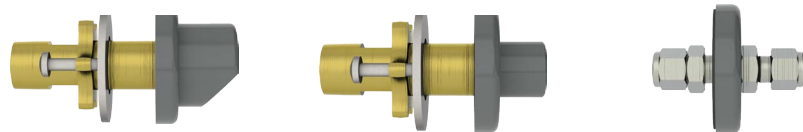
ORDERING INFORMATION

For standard configuration please refer to the item numbers below.

Swagelok® tube fittings must be ordered separately.

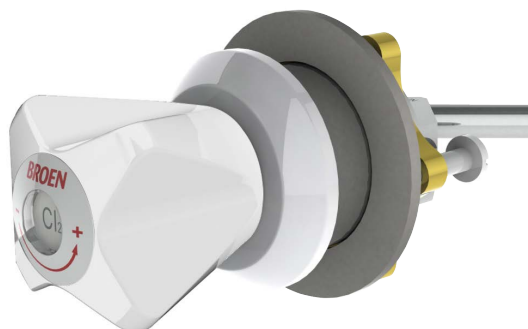
For further information, please contact your BROEN-LAB representative.

Models



Media	45°	Straight	Bulk head union outlet
All media	02 869.529-9023	02 861.529-9023	02 566.009-9023

Delivered with 90° rear wall connection (max wall thickness 20mm)



BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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]

Weight: 0.7 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:

- a valve without mounting kit

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

Model



Without service valve

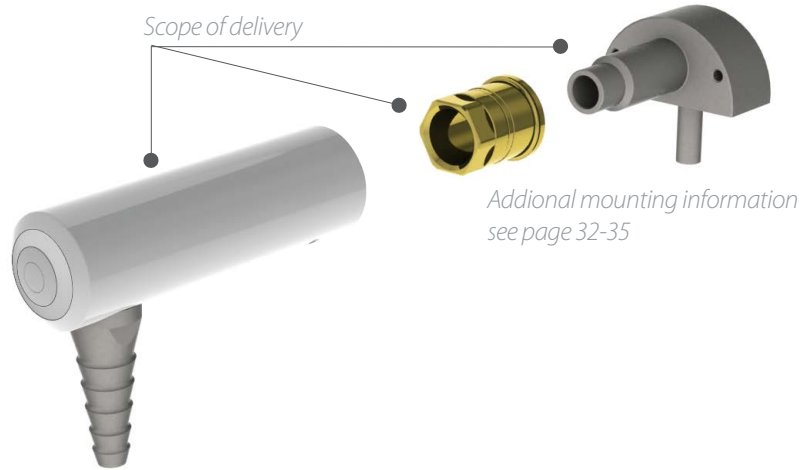
Media



Corrosive gases

25115391099

Delivered with mounting accessories



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

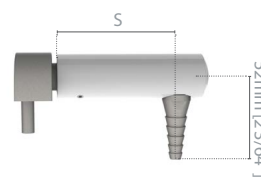
ORDERING INFORMATION

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.

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

WITH FIXED NOZZLE

Model / Standout

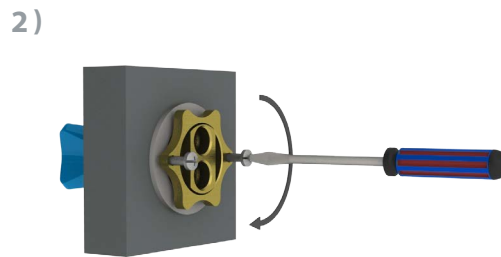
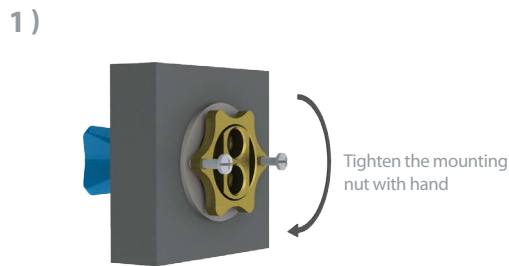
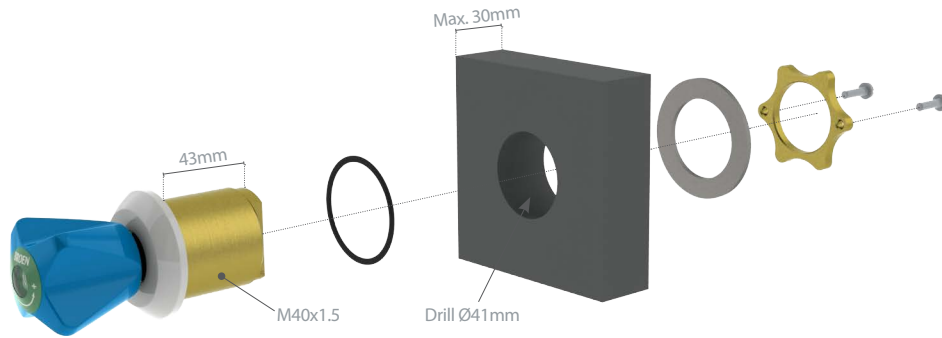


Media	S = 53mm	S = 75mm	S = 90mm
Corrosive gases	25111501099-40	25111511099-40	25111521099-40

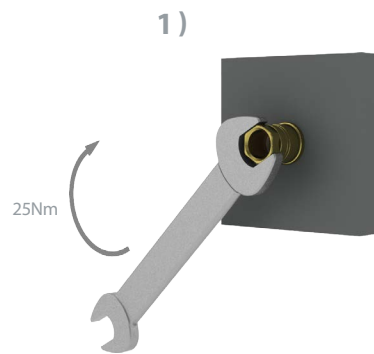
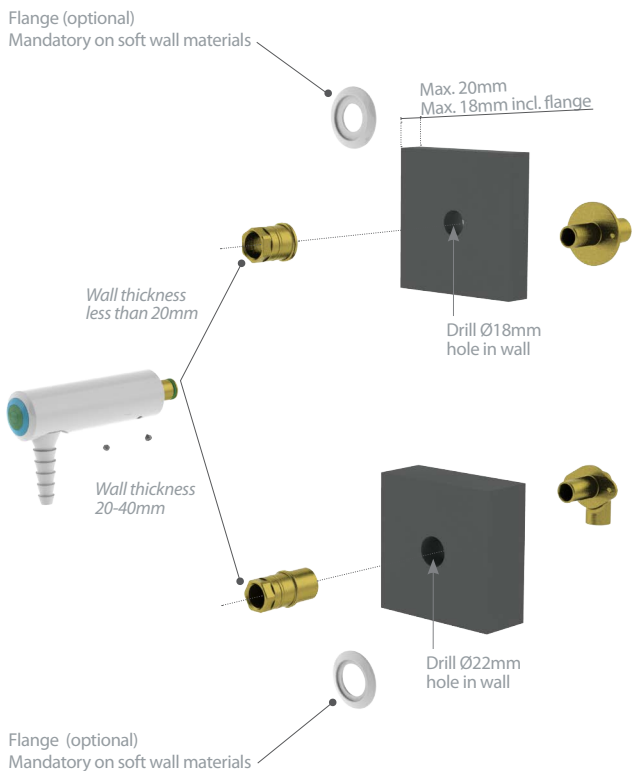
Delivered with 90° rear wall connection (max wall thickness 20mm)

Illustration	Description	Media	BROEN-LAB item No.
	Flange (wall thickness 0-20mm)	All media	1521057G
	Flange (wall thickness 20-40mm)	All media	1521178G
	Nut (wall thickness 20-40mm)	All media	1521054
	Nut (max. wall thickness 20mm)	All media	1521036
	Straight rear wall connection	Water, burning and 2.0 technical gases	1521088
	90° rear wall connection	Water, burning and 2.0 technical gases	1521052
	Backside support	All media	1521092
	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 and 2.0 technical gases	2511494 2511497 2511496 2511495 2511493
	Test equipment for outlets	2.0 technical gases	1521177

FRONT CONTROL VALVES



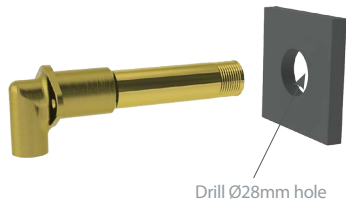
OUTLETS



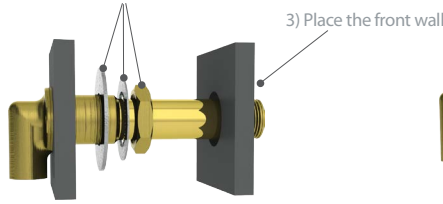
BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

MOUNTING OF OUTLETS INTO FUME HOODS WITH A DOUBLE WALL CONSTRUCTION

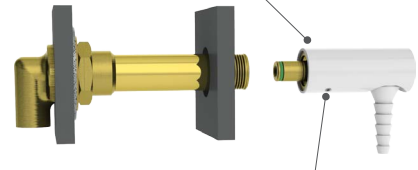
1) Insert the rear wall connection through the back wall



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



4) Position the outlet



5) Tighten Allen screws with Allen key, max 1Nm

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

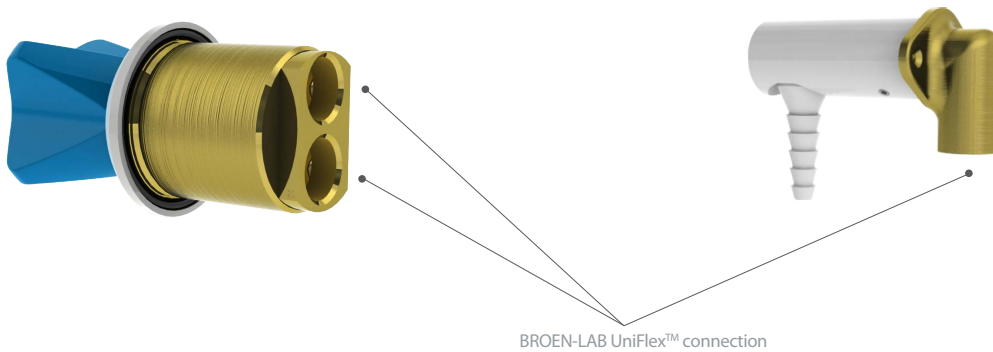
PIPE INSTALLATION

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

BROEN-LAB front control valves and fume hood outlets for standard media are delivered with BROEN-LAB UniFlex™ inlet connections as well as outlet connection on the valves.

VALVE

OUTLET

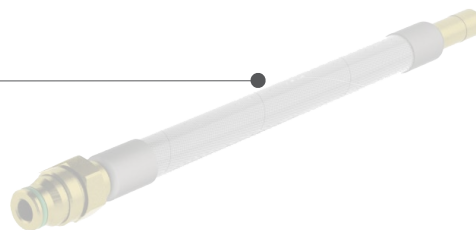


Pipe installation can be done either with flexible hoses or with standard Cu, PEX or SS pipes.

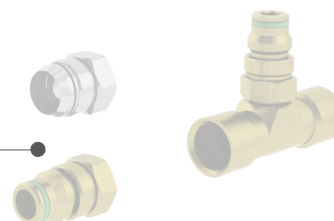
BROEN-LAB has a wide range of flexible hoses available with BROEN-LAB UniFlex™ connections as well as connection fittings to fit pipes of the following sizes:

- OD 8mm
- OD 10mm
- OD 12mm
- OD 15mm
- 3/8"

BROEN-LAB UniFlex™ flexible hoses



BROEN-LAB UniFlex™ connection fittings and adaptors for Cu, SS, PEX and PA pipes



For further information about flexible hoses and connection fittings, please contact you local BROEN-LAB representative or refer to www.BROEN-LAB.com

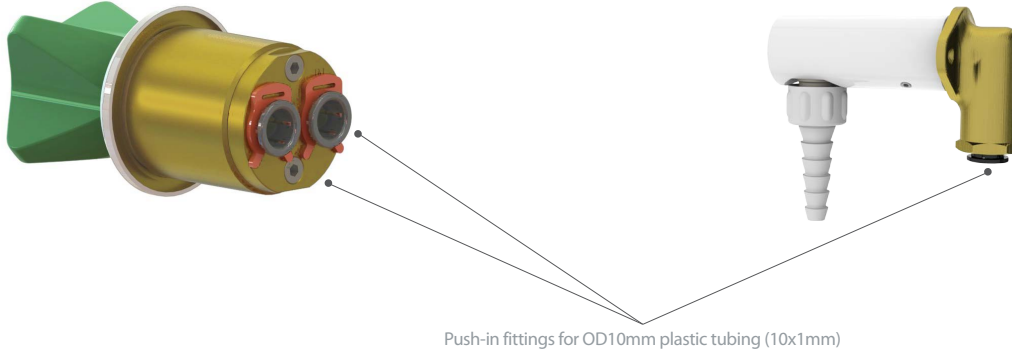
PIPE INSTALLATION
SPECIAL WATER (PP MODELS ONLY)

PREMIUM

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:

VALVE

OUTLET



BROEN-LAB recommends the following materials for pipe installation:

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

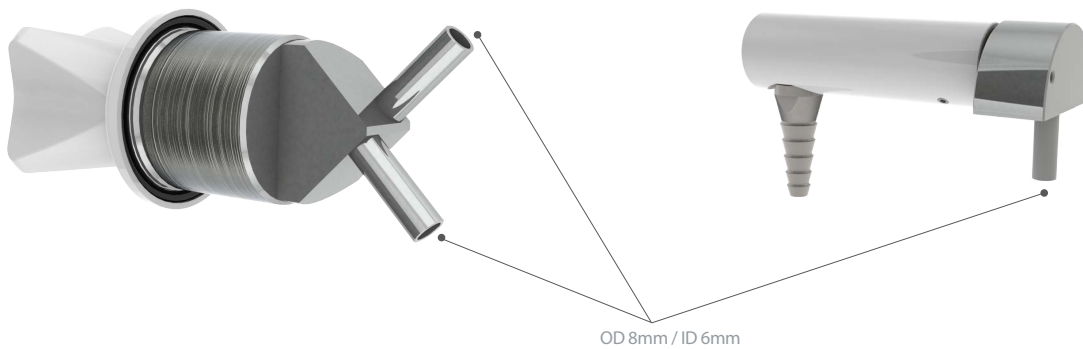
For further information, please contact your BROEN-LAB representative or refer to www.BROEN-LAB.com

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



For further information, please contact your BROEN-LAB representative or refer to www.BROEN-LAB.com

BROEN-LAB UNIFLEX™ FRONT CONTROL VALVES AND OUTLETS

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

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

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

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BROEN-LAB A/S ISO 9001 certification

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

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