

# BROEN-LAB

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## FITTINGS FOR WATER

**BASIC range**

99B0055 Rev. 2 - 15.08.2023

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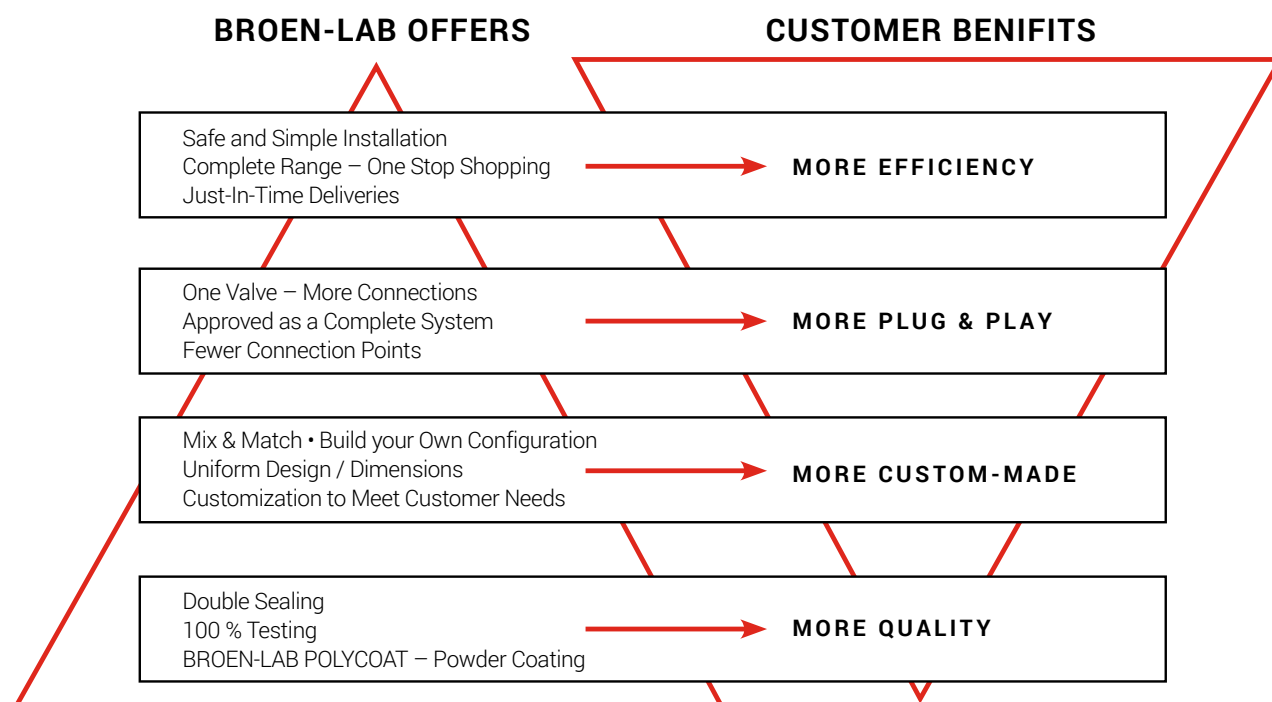
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## BROEN-LAB UNIFLEX™

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### THIS IS BROEN-LAB UNIFLEX™

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



The operation and the configuration of the BROEN-LAB UniFlex™ fittings are highly adapted to the requirements of modern laboratories in the educational sector.

The fittings are manufactured of the highest quality materials. The surface of laboratory fittings is treated with BROEN-LAB POLYCOAT powder coating, which makes the surface highly resistant to most chemicals, UV fading and heat.

Most BROEN-LAB UniFlex™ fittings for water are as a standard delivered with a fixed polypropylene hose nozzle and a polypropylene handle. As an option it is possible to get water fittings with an integrated check valve, which prevents backflow. The fittings are delivered with easy-to-mount anti-rotational mounting kit.

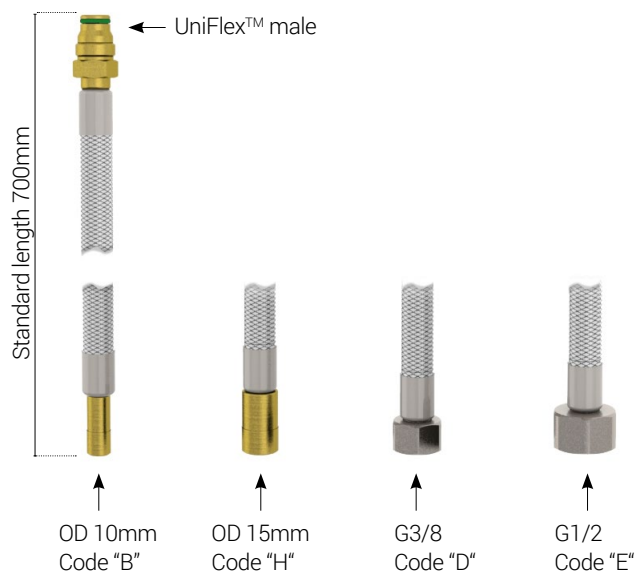
### THIS IS BROEN-LAB UNIFLEX™

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).

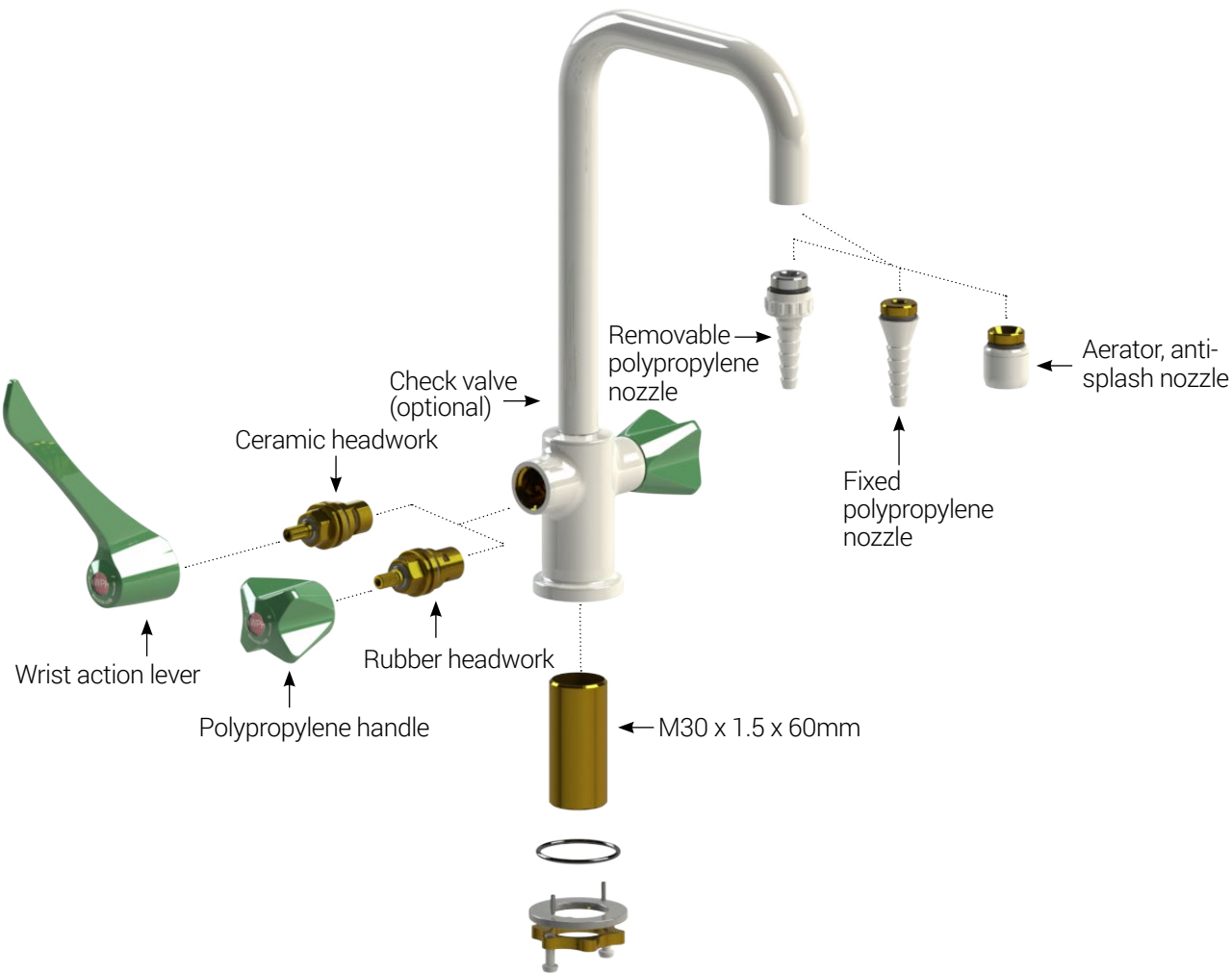
**PRODUCT OVERVIEW**  
WATER TAP



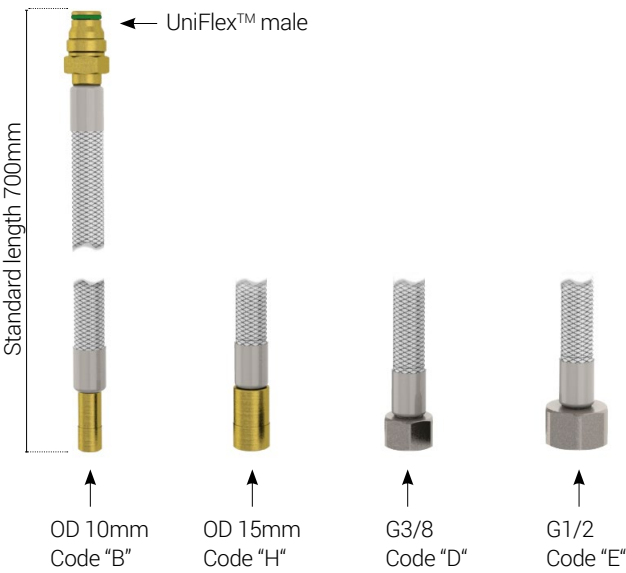
**Optional hoses to add**



**PRODUCT OVERVIEW**  
WATER MIXER



**Optional hoses to add**



# BENCH MOUNTED FITTING WITH SWIVEL SPOUT

## Specifications

Handle: Polypropylene, with media indication according to EN13792  
Spout: Full swivel action  
Hose nozzle: Fixed Polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber (wrist action lever: ceramic)  
Opening/closing function: 2 x 360° (wrist action lever: 90°)  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 1.4 kg

## Materials with media contact

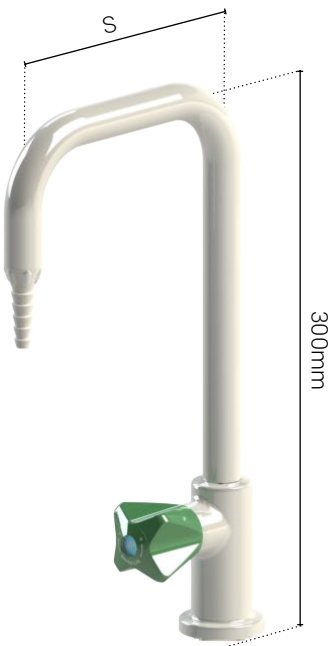
Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96% (wrist action lever only)

## Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- aerator
- removable polypropylene hose nozzle
- integrated non-return valve
- fixed spout (rear, left or right)
- alternative hose inlet connection / without a hose
- other inlet options (type, length)
- national approvals
- WPH (Water Potable Hot)
- WNH (Water Non-Potable Hot)



## Configuration options

Choose handle and stand out lenght

	S = 150 mm	S = 200 mm	S = 250 mm	S = 300 mm
Polypropylene handle	2534 008 10XX - YY	2534 084 10XX - YY	2534 085 10XX - YY	2534 086 10XX - YY
Wrist lever	2534 087 10XX - YY	2534 088 10XX - YY	2534 089 10XX - YY	2534 083 10XX - YY

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

# BENCH MOUNTED FITTING ON A COLUMN

## Specifications

Handle: Polypropylene, with media indication according to EN13792  
Hose nozzle: Fixed polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber (wrist action lever: ceramic)  
Opening/closing function: 2 x 360° (wrist action lever: 90°)  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 1.5 kg

## Materials with media contact

Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96% (wrist action lever only)

## Ordering information

For standard configuration please refer to the item numbers below.

- Other options:
- aerator
  - removable polypropylene hose nozzle
  - integrated non-return valve
  - alternative hose inlet connection / without a hose
  - other inlet options (type, length)
  - national approvals
  - WPH (Water Potable Hot)
  - WNH (Water Non-Potable Hot)



## Configuration options

Choose handle and standout length

	S = 150 mm	S = 200 mm
Polypropylene handle	2533 085 10XX - YY	2533 097 10XX - YY
Wrist lever	2533 095 10XX - YY	2533 147 10XX - YY

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

# BENCH MOUNTED TWO VALVE FITTING ON A U-SHAPED COLUMN

## Specifications

Handle: Polypropylene, with media indication according to EN13792  
Hose nozzle: Fixed Polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber (wrist action lever: ceramic)  
Opening/closing function: 2 x 360° (wrist action lever: 90°)  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 2.5 kg

## Materials with media contact

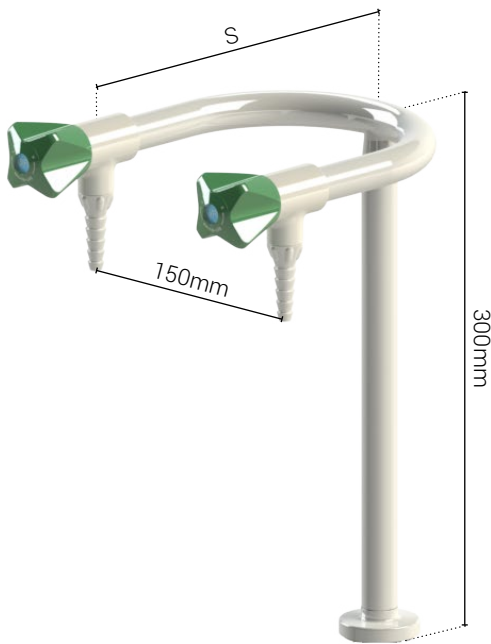
Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96% (wrist action lever only)

## Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- aerator
- removable polypropylene hose nozzle
- integrated non-return valve
- alternative hose inlet connection / without a hose
- other inlet options (type, length)
- national approvals
- WPH (Water Potable Hot)
- WNH (Water Non-Potable Hot)



## Configuration options

Choose handle and standout lenght

	S = 150 mm	S = 200 mm
Polypropylene handle	2533 086 10XX - YY	2533 149 10XX - YY
Wrist lever	2533 148 10XX - YY	2533 150 10XX - YY

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

# BENCH MOUNTED TWO VALVE FITTING ON A T-SHAPED COLUMN

### Specifications

Handle: Polypropylene, with media indication according to EN13792  
Hose nozzle: Fixed polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber (wrist action lever: ceramic)  
Opening/closing function: 2 x 360° (wrist action lever: 90°)  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 2.3 kg

### Materials with media contact

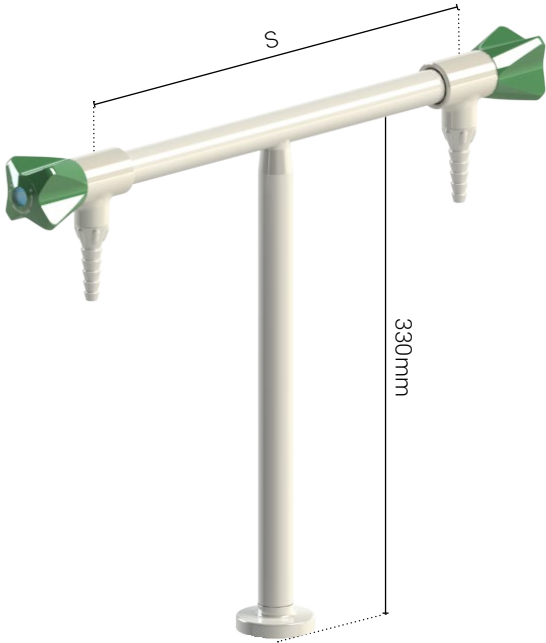
Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96% (wrist action lever)

### Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- aerator
- removable polypropylene hose nozzle
- integrated non-return valve
- alternative hose inlet connection / without a hose
- other inlet options (type, length)
- national approvals
- WPH (Water Potable Hot)
- WNH (Water Non-Potable Hot)



### Configuration options

Choose handle and standout length

	S = 300 mm	S = 400 mm
Polypropylene handle	2533 087 10XX - YY	2533 130 10XX - YY
Wrist lever	2533 151 10XX - YY	2533 152 10XX - YY

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

# BENCH MOUNTED FITTING ON A COLOUMN WITH SWIVEL SPOUT

## Specifications

Handle: Polypropylene, with media indication according to EN13792  
Spout: Full swivel action  
Hose nozzle:  
U-shape • fixed polypropylene (can be unscrewed by hand)  
S-shape • removable polypropylene  
Headwork: Rubber (wrist action lever: ceramic)  
Opening/closing function: 2 x 360° (wrist action lever: 90°)  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 2 kg

## Materials with media contact

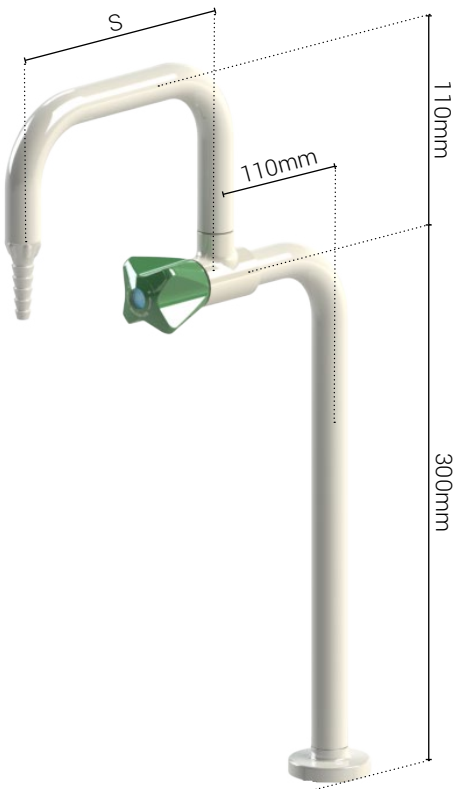
Metals: Brass  
Plastics: PP, SPX (hose)  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96% (wrist action lever)

## Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- aerator
- removable polypropylene hose nozzle (U-shape)
- wrist action lever
- integrated non-return valve
- T = 200mm
- alternative hose inlet connection / without a hose
- other inlet options (type, length)
- national approvals
- WPH (Water Potable Hot)
- WNH (Water Non-Potable Hot)



## Configuration options

Choose handle and stand out lenght

	S = 150 mm	S = 200 mm
Polypropylene handle	2533 141 10XX - YY	2533 142 10XX - YY
Wrist lever	2533 143 10XX - YY	2533 144 10XX - YY

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

# BENCH MOUNTED THREE VALVE FITTING

## Specifications

Handle: Polypropylene, with media indication according to EN13792  
Spout: Full swivel action  
Hose nozzle: Fixed polypropylene (can be unscrewed by hand from angle valves, thread: male G3/8)  
Headwork: Rubber (wrist action lever: ceramic)  
Opening/closing function: 2 x 360° (wrist action lever: 90°)  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 3 kg

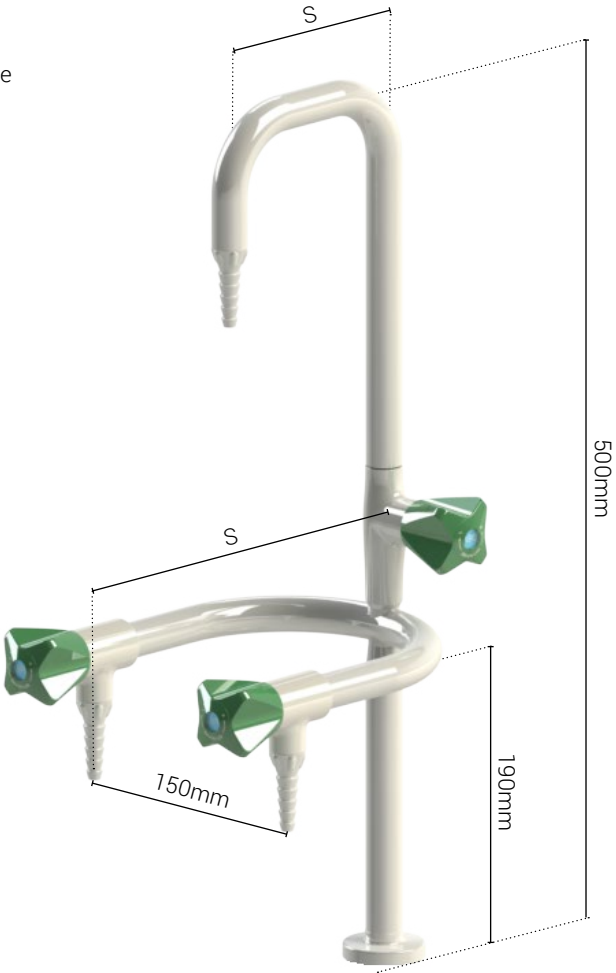
## Materials with media contact

Metals: Brass  
Plastics: PP, SPX (hose)  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96% (wrist action lever only)  
Solder: DIN L-Ag55:Sn

## Ordering information

For standard configuration please refer to the item numbers below.

- Other options:
- aerator
  - removable polypropylene hose nozzle
  - integrated non-return valve
  - alternative hose inlet connection / without a hose
  - other inlet options (type, length)
  - national approvals
  - WPH (Water Potable Hot)
  - WNH (Water Non-Potable Hot)



## Configuration options

Choose handle and stand out lenght

	S = 150 mm
Polypropylene handle	2533 094 10XX - YY
Wrist lever	2533 096 10XX - YY

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

# WALL MOUNTED FITTING WITH 90° VALVE

## Specifications

Handle: Polypropylene, with media indication according to EN13792  
Hose nozzle: Fixed polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber (wrist action lever: ceramic)  
Opening/closing function: 2 x 360° (wrist action lever: 90°)  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 1.0 kg

## Materials with media contact

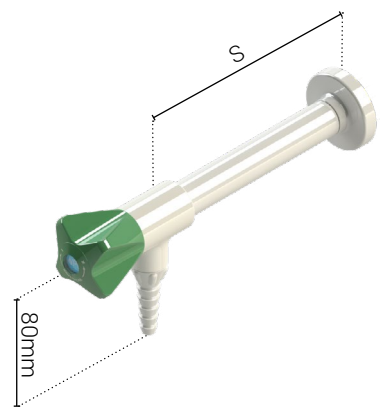
Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96% (wrist action lever only)

## Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- aerator
- removable polypropylene hose nozzle
- integrated non-return valve
- alternative hose inlet connection / without a hose
- other inlet options (type, length)
- national approvals
- WPH (Water Potable Hot)
- WNH (Water Non-Potable Hot)



## Configuration options

Choose handle and standout length

	S = 150 mm	S = 200 mm
Polypropylene handle	2533 136 10XX - YY	2533 137 10XX - YY
Wrist lever	2533 138 10XX - YY	2533 139 10XX - YY

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

# WALL MOUNTED FITTING WITH 90° VALVE

### Specifications

Handle: Polypropylene, with media indication according to EN13792  
Hose nozzle: Fixed polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber  
Opening/closing function: 2 x 360°  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 0.5 kg

### Materials with media contact

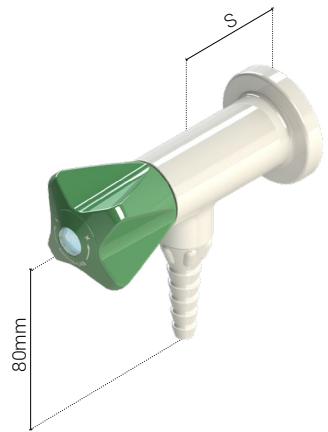
Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based

### Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- aerator
- removable polypropylene hose nozzle
- wrist action lever
- alternative hose inlet connection / without a hose
- other inlet options (type, length)
- national approvals
- WPH (Water Potable Hot)
- WNH (Water Non-potable Hot)



### Configuration options

Choose stand out lenght

	S = 50mm	S = 70mm
Polypropylene handle	2530 317 10XX - YY	2530 315 10XX - YY

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

# WALL MOUNTED FITTING WITH STRAIGHT VALVE

## Specifications

Handle: Polypropylene, with media indication according to EN13792  
Hose nozzle: Fixed polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber  
Opening/closing function: 2 x 360°  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 0.5 kg

## Materials with media contact

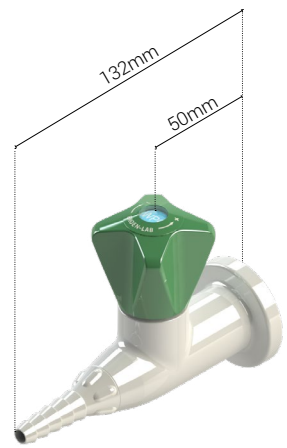
Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based

## Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- aerator
- removable polypropylene hose nozzle
- wrist action lever
- alternative hose inlet connection / without a hose
- other inlet options (type, length)
- national approvals
- WPH (Water Potable Hot)
- WNH (Water Non-potable Hot)



## Configuration options

	S = 50mm
Polypropylene handle	2532 199 10XX - YY

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

# BENCH MOUNTED TWO HANDLE ONE HOLE MIXER WITH SWIVEL SPOUT

### Specifications

Handle: Polypropylene, with media indication according to EN13792  
Spout: Full swivel action  
Hose nozzle: Fixed polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber (wrist action lever: ceramic)  
Opening/closing function: 2 x 360° (wrist action lever: 90°)  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 1.8 kg

### Materials with media contact

Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96% (wrist action lever only)

### Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- aerator
- removable polypropylene hose nozzle
- integrated non-return valve
- fixed spout
- alternative hose inlet connection / without a hose
- OD 10mm CU-pipes
- other inlet options
- national approvals



### Configuration options

Choose handle and stand out lenght

	S = 150 mm	S = 200 mm	S = 250 mm	S = 300 mm
Polypropylene handle	2536 039 10XX - YY	2536 045 10XX - YY	2536 046 10XX - YY	2536 047 10XX - YY
Wrist lever	2536 041 10XX - YY	2536 048 10XX - YY	2536 049 10XX - YY	2536 050 10XX - YY

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



**39** • Water potable (WPC /WPH)



**40** • Water non-potable (WNC /WNH)

# SUSPENDED TWO VALVE FITTING

## Specifications

Handle: Polypropylene, with media indication according to EN13792  
Hose nozzle: Fixed polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber  
Opening/closing function: 2 x 360°  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 2.5 kg

## Materials with media contact

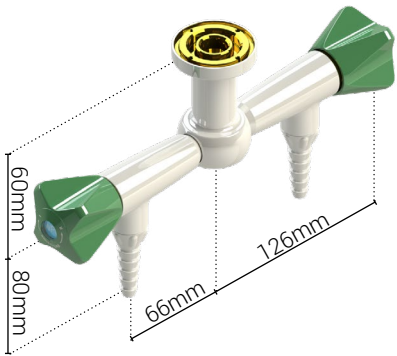
Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based

## Ordering information

For standard configuration please refer to the item numbers below.

Other options:

- aerator
- removable polypropylene hose nozzle
- wrist action lever
- models with single valve, 2 valves in 90° and 4 valves
- alternative hose inlet connection / without a hose
- other inlet options (type, length)
- national approvals
- WPH (Water Potable Hot)
- WNH (Water Non-potable Hot)



## Configuration options

	2-way 180° valve
Polypropylene handle	2530 064 10XX - YY

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

# BENCH MOUNTED ONE HANDLE MIXER

## Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated  
Spout: Swivel action  
Hose nozzle: Aerator  
Cartridge: Ceramic (temperature and flow regulation type)  
Opening/closing function: 25°, mixing function: ±45°  
Temperature range: 0°C • 90°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 2.4 kg

## Materials with media contact

Metals: Brass  
Plastics: POM, PTFE  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96%

## Ordering information


For standard configuration please refer to the item numbers below.

- Other options:
- integrated non-return valve
  - removable and fixed hose nozzles
  - flow restrictor (5 l/min)
  - alternative hose inlet connections
  - OD 10mm CU-pipes



## Configuration options

Choose standout lenght

	S = 150 mm	S = 200 mm	S = 250 mm	S = 300 mm
	2535 038 1035 - <b>YY</b>	2535 039 1035 - <b>YY</b>	2535 040 1035 - <b>YY</b>	2535 041 1035 - <b>YY</b>

# BENCH MOUNTED ONE HANDLE MIXER WITH HAND SHOWER

## Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated  
Spout: Swivel action  
Hose nozzle: Aerator  
Cartridge: Ceramic (temperature and flow regulation type)  
Opening/closing function: 25°, mixing function: ±45°  
Temperature range: 0°C • 90°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 3.0 kg

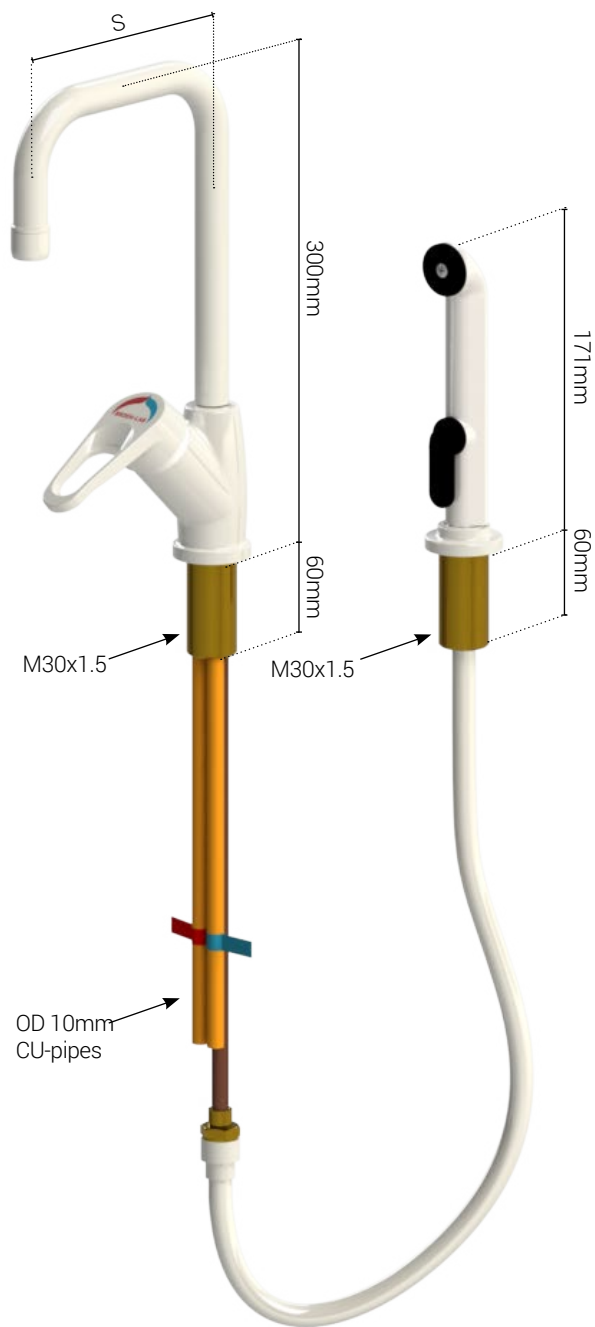
## Materials with media contact

Metals: Brass  
Plastics: POM, PTFE, SPX (hose), ABS  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96%

## Ordering information


For standard configuration please refer to the item numbers below.

- Other options:
- integrated non-return valve
  - removable and fixed hose nozzles
  - flow restrictor (5 l/min)



## Configuration options

Choose standout lenght

	S = 150 mm	S = 200 mm	S = 250 mm	S = 300 mm
	2535 042 1035-52C	2535 043 1035-52C	2535 044 1035-52C	2535 045 1035-52C

# WALL MOUNTED ONE HANDLE MIXER

## Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated  
Spout: Swivel action  
Hose nozzle: Aerator  
Cartridge: Ceramic (temperature and flow limiting type)  
Opening/closing function: 25°, mixing function: ±45°  
Temperature range: 0°C • 90°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Inlets: Eccentric couplings with male G1/2  
Weight: 1.5 kg

## Materials with media contact

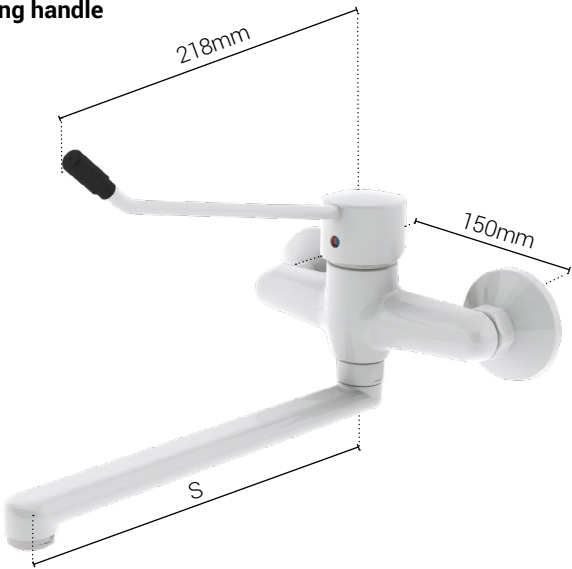
Metals: Brass  
Plastics: POM, PTFE  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96%  
Ordering information  
For standard configuration please refer to the item numbers below.

## Ordering information

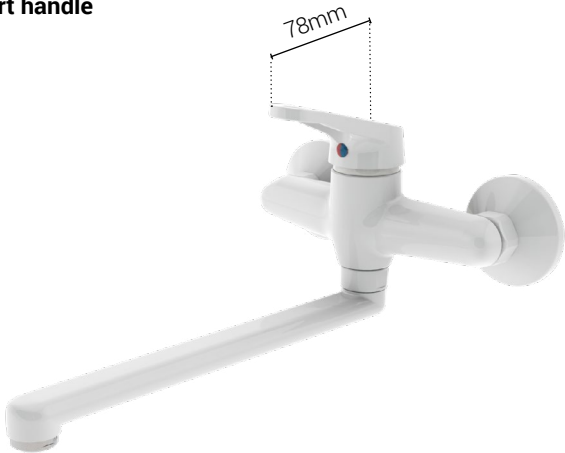
For standard configuration please refer to the item numbers below.

- Other options:
- removable hose nozzle
  - bench mounted model
  - different inlet connections  
(with BROEN-LAB UniFlex™ rear wall connection, lead-in. etc)

With long handle



With short handle



## Configuration options

Choose handle and stand out lenght

		S = 200 mm	S = 250 mm	S = 300 mm
Short handle		2535 010 1035	2535 004 1035	2535 016 1035
Long handle		2535 007 1035	2535 001 1035	2535 013 1035

# BENCH MOUNTED ONE HANDLE MIXER

## Specifications

Handle: Metal, BROEN-LAB POLYCOAT powder coated  
Spout: 110° limited swivel action  
Hose nozzle: Removable polypropylene (aerator included)  
Cartridge: Ceramic (temperature and flow regulation type)  
Opening/closing function: 25°, mixing function: ±45°  
Temperature range: 0°C • 65°C  
Max. working pressure: 10 bar / 147 psi  
Weight: 2.8 kg

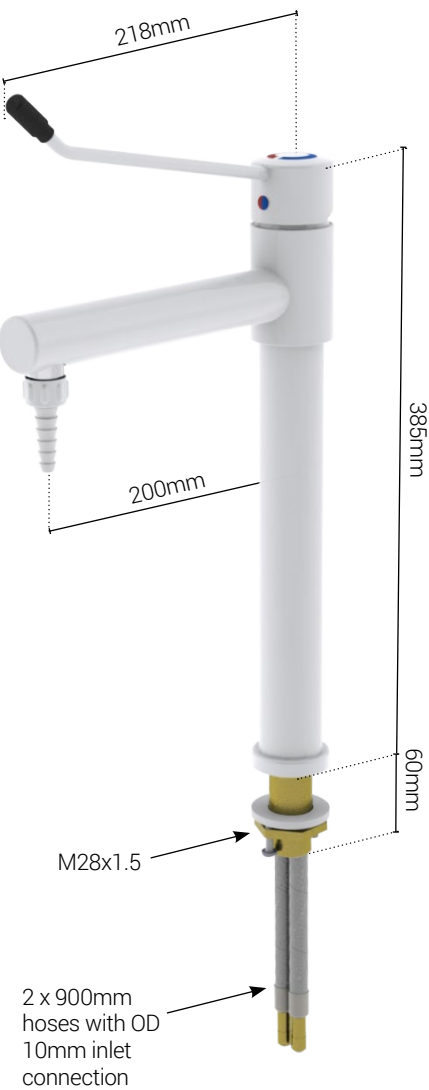
## Materials with media contact

Metals: Brass  
Plastics: PP, POM, PTFE, SPX (hose)  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96%


## Ordering information

For standard configuration please refer to the item numbers below.

- Other options:
- no swivel action
  - full swivel action



## Configuration options

		S = 200 mm
Long handle		G350318135

# WALL MOUNTED TWO HANDLE TWO HOLE MIXER WITH SWIVEL SPOUT

## Specifications

Handle: Polypropylene, with media indication according to EN13792  
Hose nozzle: Fixed polypropylene (can be unscrewed by hand, thread: male G3/8)  
Headwork: Rubber  
Opening/closing function: 2 x 360°  
Temperature range: 0-65°C  
Max. working pressure: 10 bar / 147 psi  
Test pressure: 1 x working pressure  
Weight: 1.7 kg

## Materials with media contact

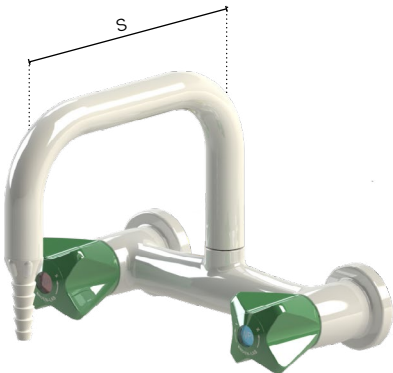
Metals: Brass  
Plastics: PP  
Sealing: EPDM  
Lubricant: Silicone based  
Ceramics: Al<sub>2</sub>O<sub>3</sub> 96%

## Ordering information

For standard configuration please refer to the item numbers below.

- Other options:
  - aerator
  - flow restrictor (5 l/min)
  - integrated check valve
  - fixed spout
  - S-spout for wall mounted model
  - wrist action lever
  - other options for hose inlet connections
- For further information please contact your local BROEN-LAB representative.

With U-shape swivel spout



Bench mounted model



## Configuration options

Choose handle and standout lenght

	S = 150 mm	S = 200 mm	S = 250 mm	S = 300 mm
Polypropylene handle	2536 279 10XX - YY	2536 215 10XX - YY	2536 280 10XX - YY	2536 281 10XX - YY
Wrist lever	2536 274 10XX - YY	2536 214 10XX - YY	2536 275 10XX - YY	2536 276 10XX - YY

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



**39** • Water potable (WPC /WPH)



**40** • Water non-potable (WNC /WNH)

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## BROEN-LAB UNIFLEX™ HOSES FOR WATER

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BROEN-LAB UniFlex™ flexible hoses



BROEN-LAB offers BROEN-LAB UniFlex™ hoses 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 you time and labor • in other words reduced installation costs.

A wide range of fittings and lengths available for BROEN-LAB UniFlex™ hoses enables customers to choose the perfect hose for their application.

BROEN-LAB UniFlex™ hoses for water are manufactured of soft cross-linked polyethylene (SPX), which is approved for use with drinking water and meets all hygienic requirements. From the outside the hose is secured by a Stainless Steel braiding that ensures long service life and durability.

If you still prefer a standard way of installation with Cu, Stainless Steel, or PEX-pipes, BROEN-LAB offers a wide range of connection fittings and adaptors for pipes of different dimensions.

BROEN-LAB UniFlex™ connection fittings and adaptors for CU, Stainless Steel and PEX pipes



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.

<b>Hose</b>	<b>SPX</b>
<b>Factors*</b>	<b>93V</b>
<b>Inner hose material with media contact</b>	SPX
<b>Outer hose material / braiding</b>	Stainless Steel AISI 304
<b>Sealing material</b>	EPDM
<b>Inside diameter</b>	8.2 mm
<b>Outside diameter</b>	12 mm
<b>Max. working pressure</b>	10 bar
<b>Max. working temperature</b>	90°C
<b>Min. bending radius (inner)</b>	40 mm
<b>Leakage rate</b>	-
<b>UV resistance</b>	++
<b>Range of connections</b>	+++

## 93V - BROEN-LAB UNIFLEX™ SPX HOSES FOR WATER








### INLET CONNECTIONS

93 V **XX** XX XXXX

<b>61</b>	3/8" NPT swivel connection	
<b>32</b>	Male G3/8" fixed connection	
<b>31</b>	Male G1/2" fixed connection	
<b>33</b>	Male G3/4" fixed connection	
<b>34</b>	3/8" NPT fixed connection	
<b>35</b>	3/8" NPT swivel connection	
<b>41</b>	Female G3/8" union nut connection	
<b>46</b>	90° Female G3/8" union nut connection	
<b>40</b>	Female G1/2" union nut connection	
<b>45</b>	90° Female G1/2" union nut connection	
<b>42</b>	Female G3/4" union nut connection	
<b>09</b>	OD3/8" connection compression fitting	
<b>10</b>	OD10mm connection for compression fittings	
<b>12</b>	OD12mm connection for compression fittings	
<b>13</b>	OD1/2" connection for compression fittings	
<b>15</b>	OD15mm connection for compression fittings	
<b>65</b>	OD15mm connection for press fittings	
<b>20</b>	Straight BROEN-LAB UniFlex™ connection with EPDM O-ring	
<b>25</b>	45° BROEN-LAB UniFlex™ connection with EPDM O-ring	
<b>30</b>	90° BROEN-LAB UniFlex™ connection with EPDM O-ring	

### OUTLET CONNECTIONS

93 V XX **XX** XXXX

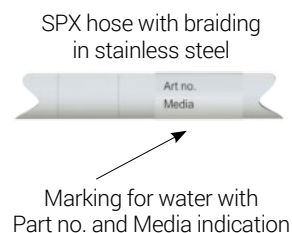
<b>20</b>	3/8" NPT swivel connection	
<b>25</b>	Male G3/8" fixed connection	
<b>30</b>	Male G1/2" fixed connection	
<b>51</b>	M10x1mm short connection with EPDM O-ring	
Please note: M10 connections can only be used for mixers and multimedia fittings		
<b>52</b>	M10x1mm long connection with EPDM O-ring	
Please note: M10 connections can only be used for mixers and multimedia fittings		
*All O-rings are lubricated with silicone based lubricant		

### SPECIFICATIONS

Inner hose material: SPX (soft PEX)  
Braiding: Stainless steel with one green stripe  
Materials with media contact: SPX, brass, EPDM with silicone based lubricant  
Sealing: EPDM, Aramid fiber/NBR  
Inside diameter: 8.2 mm  
Outside diameter: 12 mm  
Max. working pressure: 10 bar  
Max. working temperature: 90°C  
Bending radius (inner): ≥ 40 mm  
Min. length with connections: 160 mm

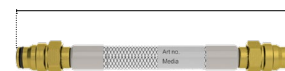
### LENGTH

93 V XX XX **XXXX**



### HOSE LENGTHS

Definition of length (L)



Definition of length (L)



If 45° and 90° elbows occur on the same hose, it will as default be mounted in U-form

\*\*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 = ≤400 mm (- 0, +10 mm)  
L = 401 mm to 1000 mm (- 0, + 20 mm)  
L = >1000 mm (- 0, + 30 mm)

\*\* Other lengths are available on request

### EXAMPLE OF HOSE CONFIGURATION

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



**93V12201200**

## RUBBER HEADWORK

### Specifications

BROEN-LAB UniFlex™ water fittings with polypropylene handles are delivered with rubber headworks.

Water fittings with rubber headwork offer quick and precise adjustment and a long service life.

Opening/closing function: 2 x 360° turn

Media: Hot/cold water

Temperature range: Please refer to the individual fitting

Max. working pressure: 10 bar / 147 psi

### Materials with media contact

Metals: Brass

Sealing: EPDM

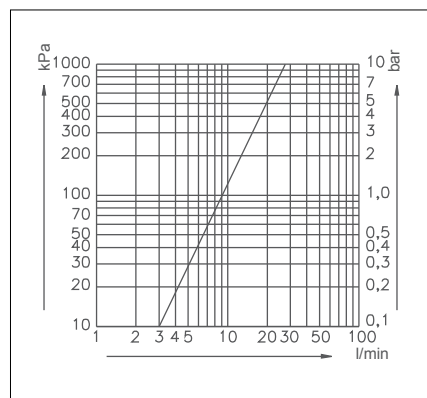
Lubricant: Silicone based

### Ordering information

Rubber headwork

No. 1977000

### Flow Chart



← Rubber headwork

## CERAMIC HEADWORK

### Specifications

BROEN-LAB UniFlex™ PREMIUM water fittings with wrist action lever are delivered with a ceramic 90° turn headwork.

Opening/closing function: 90° turn

Media: Hot/cold water

Temperature range: Maximum 90°C

Max. working pressure: 10 bar / 147 psi

Test pressure: 1 x working pressure

### Materials with media contact

Metals: Brass

Sealing: EPDM

Plastics: POM

Lubricant: Silicone based

Ceramics: Al-oxyd 96%

### Ordering information

LEFT TURN CLOSING

Ceramic headwork

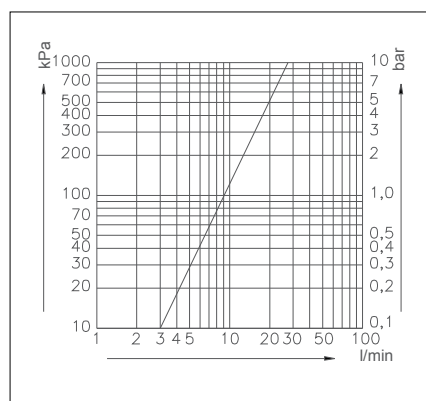
No. 1976400

RIGHT TURN CLOSING

Ceramic headwork

No. 1976500



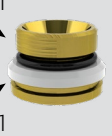






### Flow Chart





← Ceramic headwork

## ACCESSORIES

### M19x1 - Nozzles and aerators for spouts

 M19x1	Removable nozzle Polypropylene	Fixed nozzle Polypropylene	Aerator	Removable nozzle metal	Fixed nozzle metal
Adaptor	 M19x1 G1/2"	No adaptor needed	 M19x1 M22x1	 M19x1 G1/2"	No adaptor needed
	2539 003 1001		2539 005 1001	2539 007 1001	
Nozzle/Aerator	 G1/2"	 M19x1	 M22	 G1/2"	 M19x1
	2539 004 1001	2539 010 1001	2539 006 1001	2539 008 1001	2539 009 1001


### G3/8" - Nozzles and aerators for valves and outlets

 G3/8"	Removable nozzle Polypropylene	Fixed nozzle Polypropylene	Aerator	Removable nozzle metal	Fixed nozzle metal
Adaptor	 G3/8" G1/2"	No adaptor needed	 G3/8" M22x1	 G3/8" G1/2"	No adaptor needed
	2539 048 1001		2539 064 1001	2539 043 1001	
Nozzle/Aerator	 G1/2"	 G3/8"	 M22	 G1/2"	 G3/8"
	2539 004 1001	2539 040 1001	2539 006 1001  Aerator with integrated flow restrictor 5 l/min: 2539 045 1001	2539 008 1001	2539 042 1001

## ACCESSORIES

Illustration	Description	BROEN-LAB item no.
	Mounting set for G1/2" connection Mounting set for M30x1.5 connection	19 141 999 19 190 000
	1/2" NPT inlet with female BROEN-LAB UniFlex™ connection (incl. O-ring)  L = 30mm L = 60mm L = 90mm	15 502 33V      Code - <b>05</b> 15 274 54V      Code - <b>14</b> 15 502 46V      Code - <b>18</b>
	ISO 228/1-G1/2" inlet with female BROEN-LAB UniFlex™ connection (incl. o-ring)  L = 30mm L = 60mm L = 90mm	15 501 33      Code - <b>02</b> 15 501 12      Code - <b>08</b> 15 501 46      Code - <b>17</b>
	Threaded inlet pipe M30x1.5  L = 30mm L = 60mm L = 90mm	19 190 03      Code - <b>50</b> 19 190 02      Code - <b>52</b> 19 190 04      Code - <b>54</b>
	Wall flange socket (for exposed piping)	02 101 300G
	Wall flange socket (for built-in installation)	02 101 310
	Cover flange for 02 101 310	14 923 04G
	Metal handle with media indication according to EN 13792	19 150 140 10 <b>XX</b>  Replace <b>XX</b> with the media on page 29
	Wrist action lever	<a href="#">See sparepart catalogue 99B0108</a>

ACCESSORIES

Illustration	Description	BROEN-LAB item no.
	Water jet filter pump (inlet: union nut G3/4, adapter to female G1/2 is included)	19 199 009

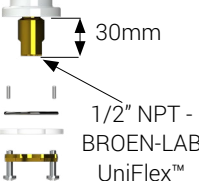
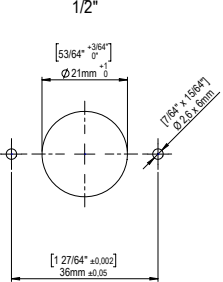
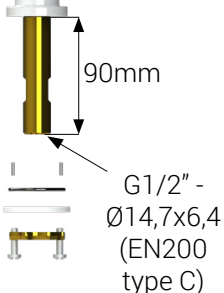
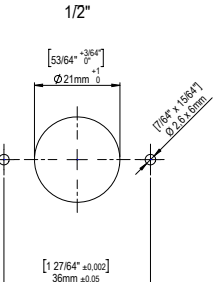
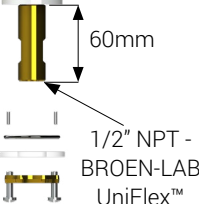
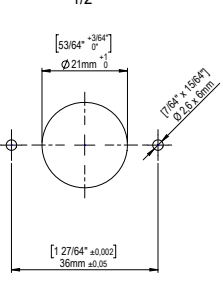
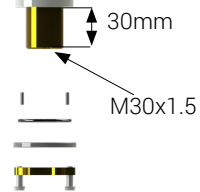
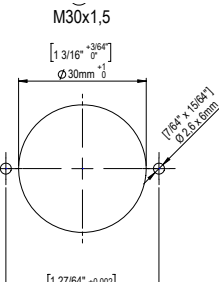
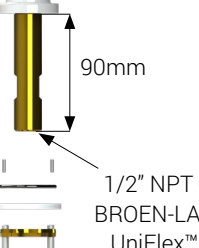
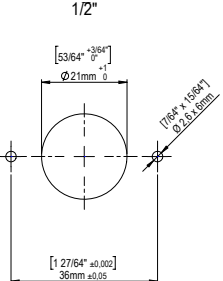
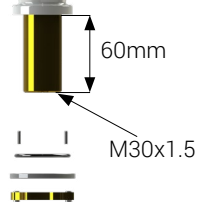
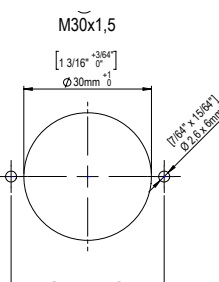
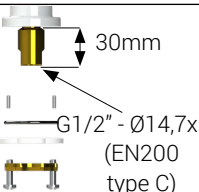
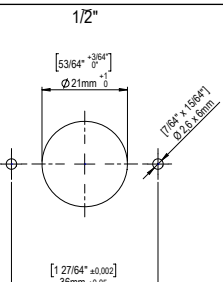
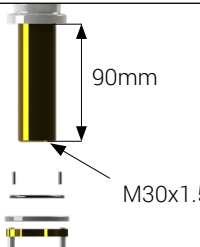
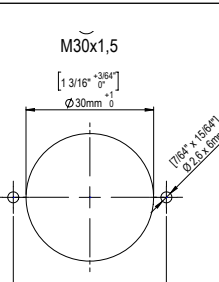
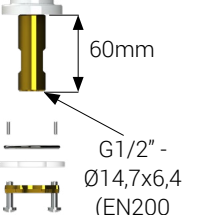
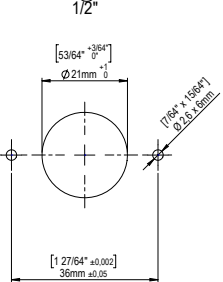
# ORDERING INFORMATION






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" NPT - BROEN-LAB UniFlex™</p>	 <p>1/2"</p> <p><math>[53/64^{+3/64}_{-0}]</math></p> <p><math>\Phi 21mm^{+1}_{-0}</math></p> <p><math>[1 27/64^{+0.002}_{-0.05}]</math></p> <p><math>[7/64^{+1/64}_{-0}]</math> <math>\Phi 2.6 \times 6mm</math></p>	-17	 <p>90mm</p> <p>G1/2" - <math>\Phi 14,7 \times 6,4</math> (EN200 type C)</p>	 <p>1/2"</p> <p><math>[53/64^{+3/64}_{-0}]</math></p> <p><math>\Phi 21mm^{+1}_{-0}</math></p> <p><math>[1 27/64^{+0.002}_{-0.05}]</math></p> <p><math>[7/64^{+1/64}_{-0}]</math> <math>\Phi 2.6 \times 6mm</math></p>
-14	 <p>60mm</p> <p>1/2" NPT - BROEN-LAB UniFlex™</p>	 <p>1/2"</p> <p><math>[53/64^{+3/64}_{-0}]</math></p> <p><math>\Phi 21mm^{+1}_{-0}</math></p> <p><math>[1 27/64^{+0.002}_{-0.05}]</math></p> <p><math>[7/64^{+1/64}_{-0}]</math> <math>\Phi 2.6 \times 6mm</math></p>	-50	 <p>30mm</p> <p>M30x1.5</p>	 <p>M30x1.5</p> <p><math>[1 3/16^{+3/64}_{-0}]</math></p> <p><math>\Phi 30mm^{+1}_{-0}</math></p> <p><math>[1 27/64^{+0.002}_{-0.05}]</math></p> <p><math>[7/64^{+1/64}_{-0}]</math> <math>\Phi 2.6 \times 6mm</math></p>
-18	 <p>90mm</p> <p>1/2" NPT - BROEN-LAB UniFlex™</p>	 <p>1/2"</p> <p><math>[53/64^{+3/64}_{-0}]</math></p> <p><math>\Phi 21mm^{+1}_{-0}</math></p> <p><math>[1 27/64^{+0.002}_{-0.05}]</math></p> <p><math>[7/64^{+1/64}_{-0}]</math> <math>\Phi 2.6 \times 6mm</math></p>	-52	 <p>60mm</p> <p>M30x1.5</p>	 <p>M30x1.5</p> <p><math>[1 3/16^{+3/64}_{-0}]</math></p> <p><math>\Phi 30mm^{+1}_{-0}</math></p> <p><math>[1 27/64^{+0.002}_{-0.05}]</math></p> <p><math>[7/64^{+1/64}_{-0}]</math> <math>\Phi 2.6 \times 6mm</math></p>
-02	 <p>30mm</p> <p>G1/2" - <math>\Phi 14,7 \times 6,4</math> (EN200 type C)</p>	 <p>1/2"</p> <p><math>[53/64^{+3/64}_{-0}]</math></p> <p><math>\Phi 21mm^{+1}_{-0}</math></p> <p><math>[1 27/64^{+0.002}_{-0.05}]</math></p> <p><math>[7/64^{+1/64}_{-0}]</math> <math>\Phi 2.6 \times 6mm</math></p>	-54	 <p>90mm</p> <p>M30x1.5</p>	 <p>M30x1.5</p> <p><math>[1 3/16^{+3/64}_{-0}]</math></p> <p><math>\Phi 30mm^{+1}_{-0}</math></p> <p><math>[1 27/64^{+0.002}_{-0.05}]</math></p> <p><math>[7/64^{+1/64}_{-0}]</math> <math>\Phi 2.6 \times 6mm</math></p>
-08	 <p>60mm</p> <p>G1/2" - <math>\Phi 14,7 \times 6,4</math> (EN200 type C)</p>	 <p>1/2"</p> <p><math>[53/64^{+3/64}_{-0}]</math></p> <p><math>\Phi 21mm^{+1}_{-0}</math></p> <p><math>[1 27/64^{+0.002}_{-0.05}]</math></p> <p><math>[7/64^{+1/64}_{-0}]</math> <math>\Phi 2.6 \times 6mm</math></p>			

 <p>Standard length 700mm</p>	 <p>Standard length 310mm</p>	 <p>Standard length 700mm</p>	 <p>Standard length 700mm</p>	 <p>Standard length 700mm</p>
No pipe/hose No code	OD 10 mm Code "B"	CU-pipes Code "C"	G3/8" Union nut Code "D"	G 1/2" Union nut Code "E"
				OD 15 mm Code "H"

NOTES

NOTES

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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.