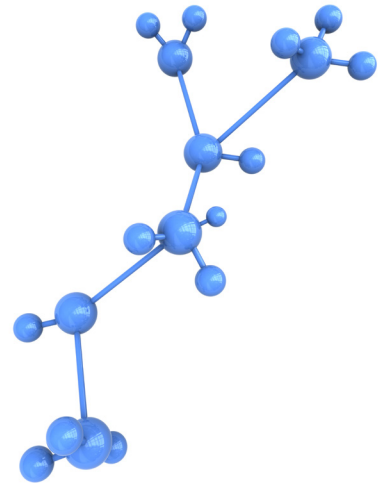
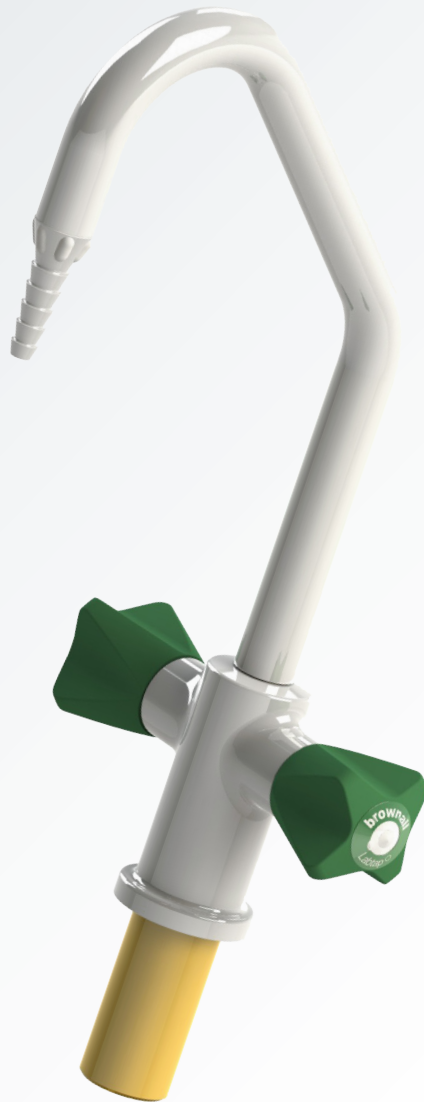


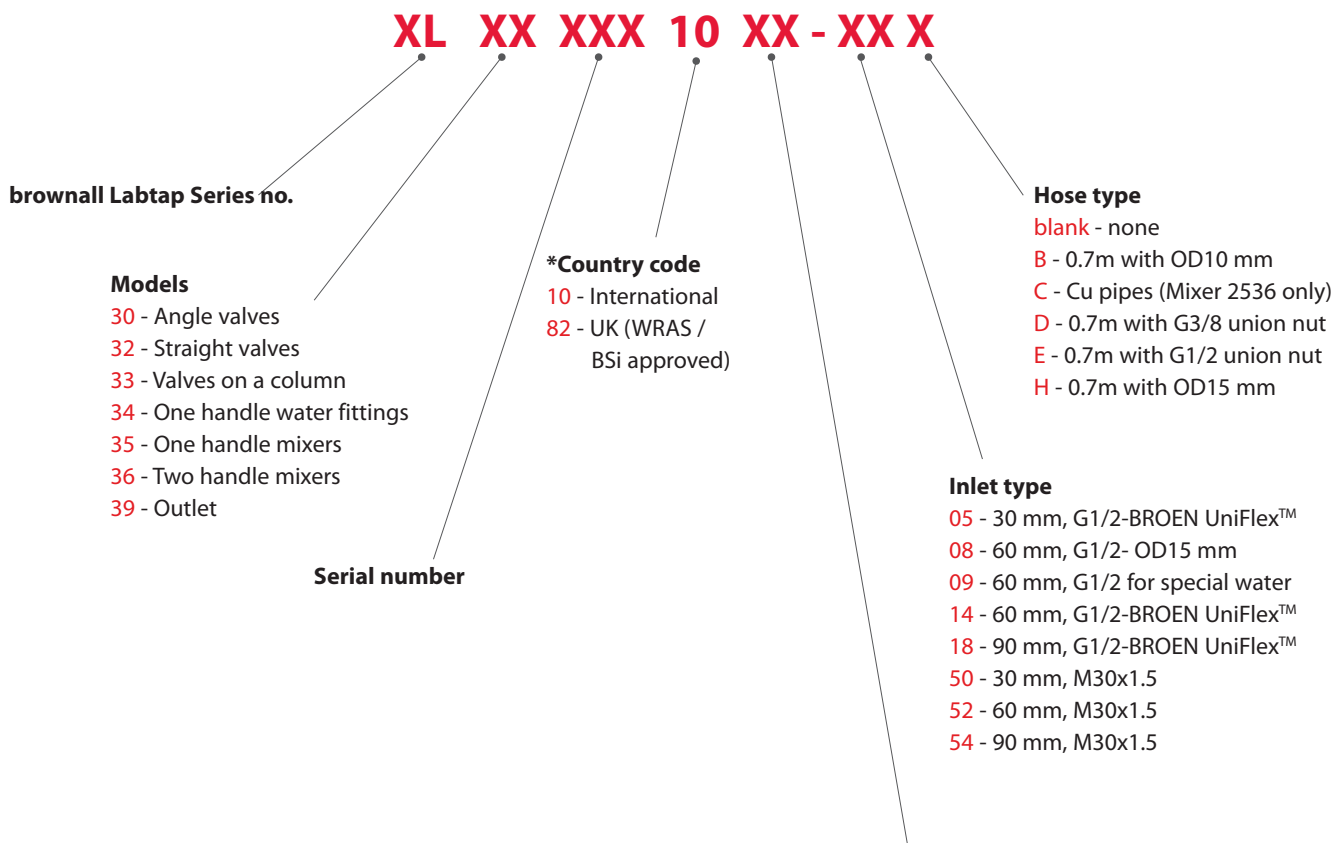
## - laboratory fittings





























# brownall Labtap®

## - ordering information

Generally, item numbers for **brownall Labtap®** fittings have the following structure



Media code	
 01 - Water potable, cold (WPC)	 23 - Nitrogen (N <sub>2</sub> )
 02 - Water potable, hot (WPH)	 24 - Carbon Dioxide (CO <sub>2</sub> )
 03 - Distilled water (WDI)	 25 - Argon (Ar)
 07 - Water non-potable, cold (WNC)	 26 - Helium (He)
 08 - Water non-potable, hot (WNH)	 27 - Dinitrogen monoxide, nitrous oxide (N <sub>2</sub> O)
 09 - Natural gas (G)	 28 - Low vacuum - 100 kPa to 0,1 kPa (V)
 11 - Liquefied petrol gas (LPG)	 29 - Fine vacuum - 0,1 kPa to 0,001 kPa (VF)
 13 - Butane (C <sub>4</sub> H <sub>10</sub> )	 30 - High vacuum - 0,1 kPa to 0,0000001 kPa (VH)
 15 - Propane (C <sub>3</sub> H <sub>8</sub> )	 35 - Tempered water (one handle mixer)
 17 - Acetylene (C <sub>2</sub> H <sub>2</sub> )	 36 - Deionised water, cold (WDC)
 19 - Hydrogen (H <sub>2</sub> )	 39 - Water potable (WPC /WPH)
 21 - Compressed air (CA)	 40 - Water non-potable (WNC /WNH)
 22 - Oxygen (O <sub>2</sub> )	 46 - Methane (CH <sub>4</sub> )

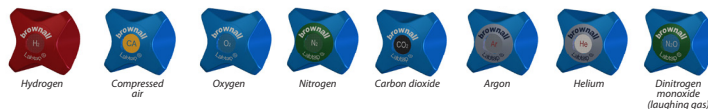
# brownall Labtap®

## - handle colour coding

### Water fittings



### Technical gas fittings



### Special water fittings



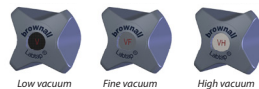
### Burning gas fittings



### Burning gas "lift/turn" fittings



### Vacuum fittings



## - general information

### Materials

Laboratory fittings from **brownall Labtap®** are manufactured of the highest quality materials, primarily brass. Stainless steel is also used where required. The surfaces of all fittings are finished in chemically resistant polyester-powder coat.

### Installation and technical tables

Special requirements of your local Water and Gas board should be checked before commencing installation. All pipe work should be purged to ensure cleanliness before fitting. Filters should be fitted if medium used is impure. Technical information is located in the back of the catalogue, including working pressures and description of materials used.

### Special advantages

The laboratory fittings from **brownall Labtap®** are designed and manufactured with the requirements of a modern laboratory in mind. The hallmarks of these fittings are good performance, durability, easy operation, flexibility and streamlined design, along with an easy-to-clean and attractive appearance. Fittings from **brownall Labtap®** are ideal for all types of laboratories, and are delivered with easy-to-mount fixing items/mounting kit, that will keep the fitting fully locked in its position when installed. Consequently, the fitting will not turn unintentionally, which would result in leaks.

### Pressure conversion

	bar	Pa	psi
1 bar =	1	1x10 <sup>5</sup>	14.5
1 Pa =	1x10 <sup>-5</sup>	1	1.45x10 <sup>-4</sup>
1 psi =	6.9x10 <sup>-2</sup>	6.9x10 <sup>3</sup>	1

Example: 67 psi = 67x(6.9x10<sup>-2</sup>) = 4.6 bar

## - headworks

### 1977000

#### Water

#### Compress headwork

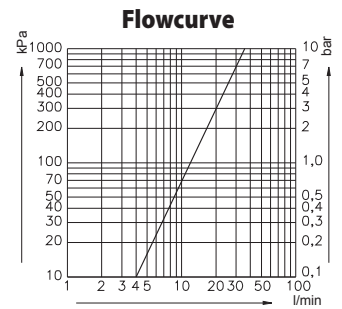
**Headwork for potable water.**  
 Open/closing function: 2 x 360°.  
 Maximum test pressure without function of the valve: 10 bar.  
 Temperature: Max. 90°C.  
 Leak rate: 15 mm<sup>3</sup>/sec. at 6 bar compressed air (differential pressure method).



#### Maximum working pressures:

kPa	bar	psi
1000	10	145

*Pressure in relation to atmospheric pressure.*



### 1976400 / 1976500

#### Water

#### Ceramic headwork

**Headwork used for wrist operated fittings for potable water.**

**1976400 - left turn closing**  
**1976500 - right turn closing**

Open/closing function: 90° (right or left hand).

Maximum test pressure without function of the valve: 10 bar.

Temperature: Max. 90°C.

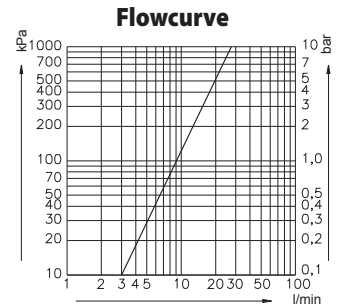
Leak rate: 15 mm<sup>3</sup>/sec. at 6 bar compressed air (differential pressure method).



#### Maximum working pressures:

kPa	bar	psi
1000	10	145

*Pressure in relation to atmospheric pressure.*



### 19152400 / 19152479

#### Special water

#### Diaphragm headwork

**For XL33-models: 19152400 (headwork only)**

**For other models: 19152479 (headwork and handle with media indication)**

**For special water:** distilled, deionized, filtered, reverse-osmosis, etc.

Open/closing function: 1.5 x 360°.

Maximum test pressure without function of the valve: 10 bar.

Temperature: Max. 90°C.

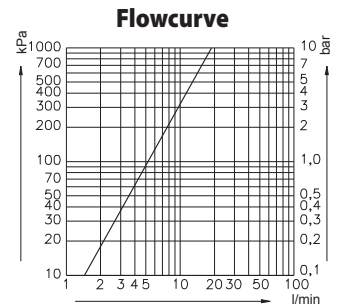
Leak rate: 15 mm<sup>3</sup>/sec. at 6 bar compressed air (differential pressure method).



#### Maximum working pressures:

kPa	bar	psi
1000	10	145

*Pressure in relation to atmospheric pressure.*



## - headworks

**02557300**

**Technical gases**

**Needle headwork**

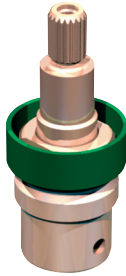
**Green indication ring:**

Headwork for non-toxic, non-corrosive, non-burning 2.0 gases (Air, Nitrogen, Carbon dioxide, Argon, Helium etc.). PVDF sealing.

Open/closing function: 3 x 360°.

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

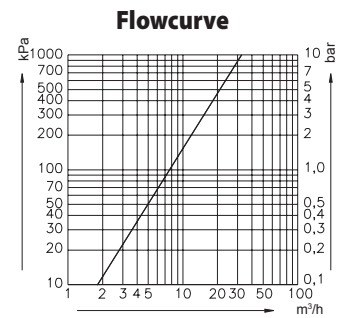
Leak rate: 15 mm<sup>3</sup>/sec. at 6 bar compressed air (differential pressure method).



**Maximum working pressures:**

kPa	bar	psi
1600	16	232

Pressure in relation to atmospheric pressure.



**19154400**

**Technical gases**

**Micro flow headwork**

Headwork for non-toxic, non-corrosive, non-burning 2.0 gases (Air, Nitrogen, Carbon dioxide, Argon, Helium etc.). PVDF sealing.

The micro flow headwork offers flow regulation characteristics where the flow of gas is close to zero.

Open/closing function: 7.5 x 360°.

Maximum test pressure without function of the valve:

1.5 x working pressure

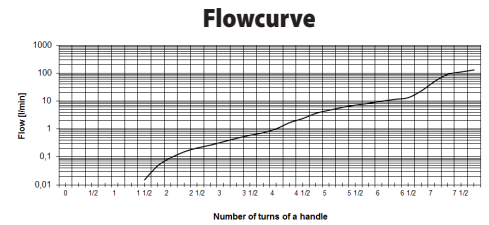
Leak rate: 15 mm<sup>3</sup>/sec. at 6 bar compressed air (differential pressure method).



**Maximum working pressures:**

kPa	bar	psi
1600	16	232

Pressure in relation to atmospheric pressure.



**Technical 4.0 gases (Oxygen)**

**Needle headwork**

Not available as a spare part (for safety reasons).

**Blue indication ring:**

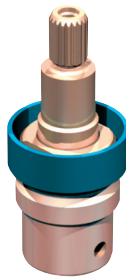
Needle headwork for non-toxic, non-corrosive, non-burning 4.0 gases (Air, Nitrogen, Carbon Dioxide, Argon, Helium etc.) and **Oxygen**

PVDF sealing.

Open/closing function: 3 x 360°.

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

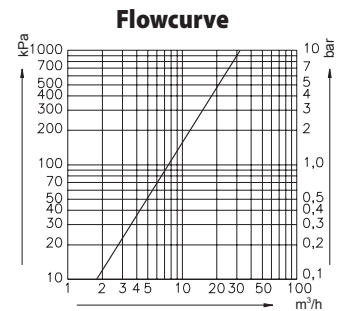
Leak rate: 15 mm<sup>3</sup>/sec. at 6 bar compressed air (differential pressure method).



**Maximum working pressures:**

kPa	bar	psi
1600	16	232

Pressure in relation to atmospheric pressure.



**02556300**

**Vacuum**

**High flow headwork**

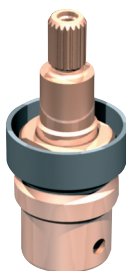
**Grey indication ring:**

Standard headwork for vacuum. Can be also used for other media when there is need for a higher flow.

Headwork function with PVDF sealing.

Open/closing function: 1.5 x 360° with high flow capacity.

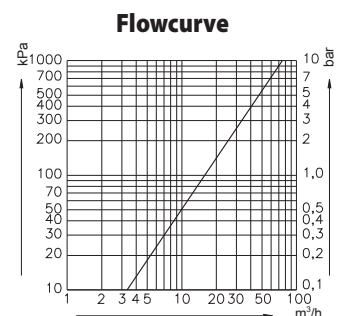
Leak rate: 15 mm<sup>3</sup>/sec. at 6 bar compressed air (differential pressure method).



**Working pressures:**

kPa	bar	psi
1x10 <sup>-4</sup>	1x10 <sup>-6</sup>	1.47x10 <sup>-4</sup>

Absolute pressure.



## - headworks

### Burning gas

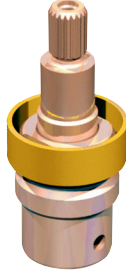
Not available as a spare part (for safety reasons).

Burning gases (Natural gas, Propane, Butane, Acetylene).

3 x 360° open/closing function.

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

Leak rate: 15 mm<sup>3</sup>/sec. at 6 bar compressed air (differential pressure method).



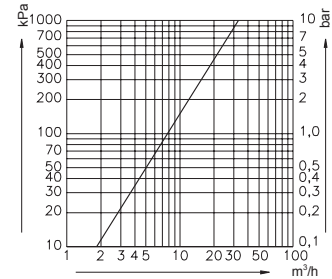
#### Maximum working pressures:

kPa	bar	psi
700	7	100

Pressure in relation to atmospheric pressure.

### Needle headwork

#### Flowcurve



### Burning gas

Valves for burning gases with "lift/turn" safety handles.

The valves are based on a BALLOFIX® ball valve.

Opening/closing function 90° lift/turn.



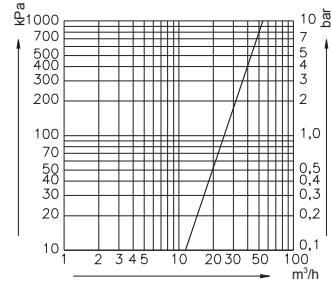
#### Maximum working pressures:

kPa	bar	psi
700	7	100

Pressure in relation to atmospheric pressure.

### "Lift/turn" ball valve

#### Flowcurve



The valves for burning gases can be used for natural, town and low pressure bottle gases as well as vacuum and compressed air.

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

### School gas

Maximum test pressure without function of the valve: 13,8 kPa / 2 psi.

Opening/closing function 90°.



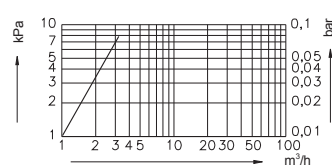
#### Maximum working pressures:

kPa	bar	psi
5	0,05	0,73

Pressure in relation to atmospheric pressure.

### Drop lever

#### Flowcurve



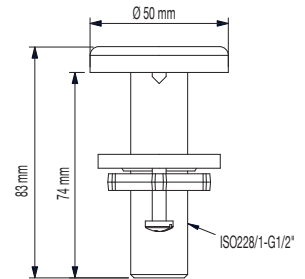
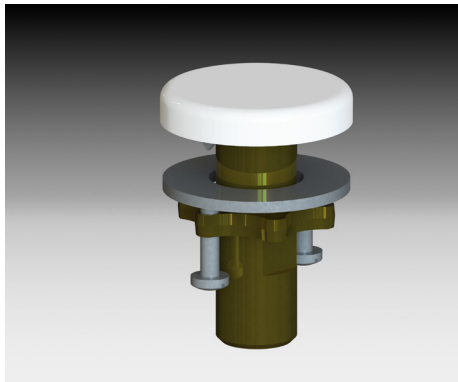
## - accessories

**19 640.009**

**All media**

**End cap**

Complete end cap with mounting kit.



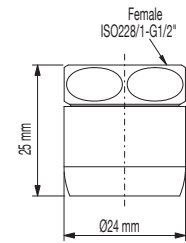
**19 025.009**

**Water**

**Aerator**

Aerator with gasket and ISO228/1-G1/2" connection. To be used on XL12- and XL14-series only.

For XL34- and XL36-series please order 25390051001 (adaptor) and 25390061001 (aerator).



**2539 004 1001**

**Water**

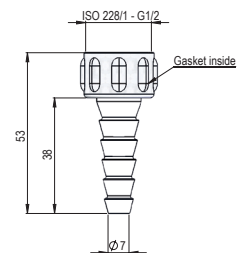
**Hose nozzle**

**Plastic removable hose nozzle** with gasket and detachable union nut, ISO228/1-G1/2" connection.

If you want to replace a fixed hose nozzle with removable one please order adaptor 25390031001 (for fittings from XL34- and XL36-series only).

**Metal removable hose nozzle:**

25390091001. Adaptor for removable metal hose nozzle: 25390071001 (for fittings from XL34- and XL36-series only).



**2539 010 1001**

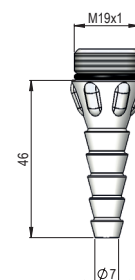
**Water**

**Hose nozzle**

**Plastic hose nozzle** with O-ring for water (thread M19x1). To be used on fittings from XL34- and XL36-series only.

For other water fittings please order 25390401001 (thread: male G3/8).

**Metal hose nozzle:** 25390091001 (to be used on fittings from XL34- and XL36-series only). For other water fittings please order 25390421001 (thread: male G3/8).



## - accessories

### XL 15014010XX

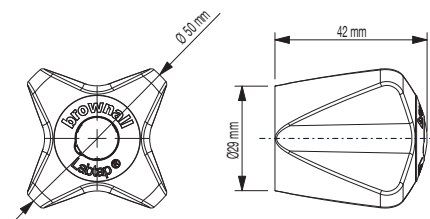
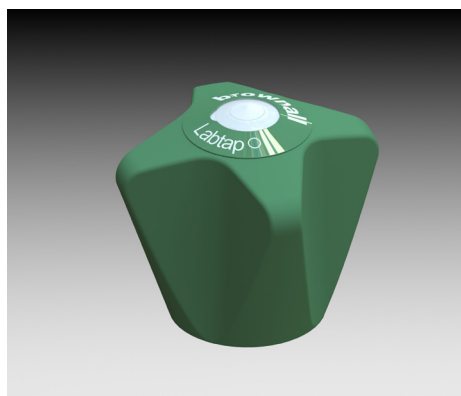
### Water and Gases

### Handle

Complete handle ready for mounting on headwork, colour coding will depend on media type according to EN 13792.

See page 5 for more information about headworks.

For media code XX please refer to page 3.



### XL 1902-7

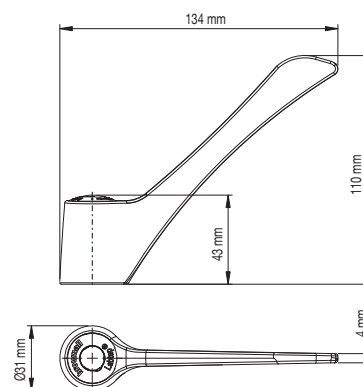
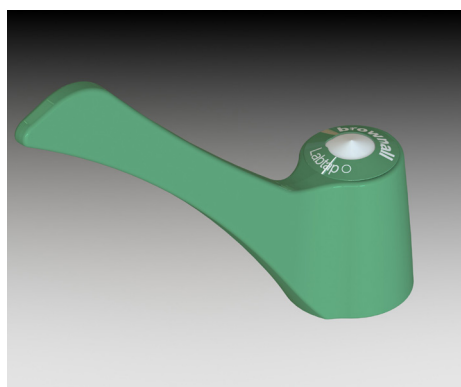
### Water

### Wrist operated handle

Complete wrist operated handle ready for mounting on headwork, colour coding will depend on media type according to EN 13792.

See page 5 for more information about headworks.

WPC and WPH buttons are delivered as a standard. For other media please contact your sales representative.



### XL 1234-0

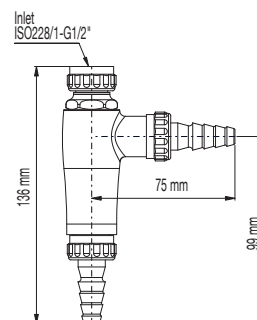
### Water

### Vacuum pump

Water jet vacuum pump serrated nozzle. 1/2" BSP inlet.

Fits all water outlets with removable nozzle.

Weight: Approx. 0.5 kg

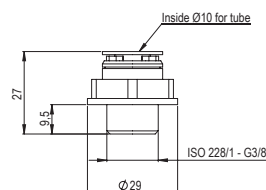
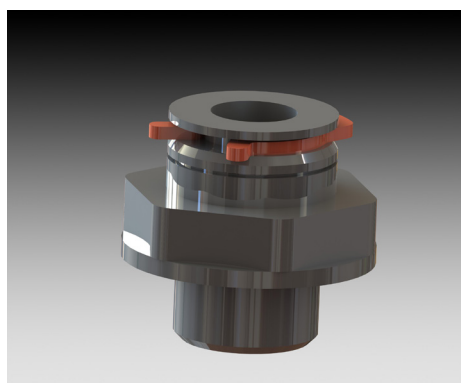


### 13 710 750

### Special Water

### 3/8" POM connector

3/8" POM connector with clamp.





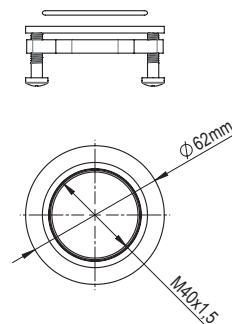
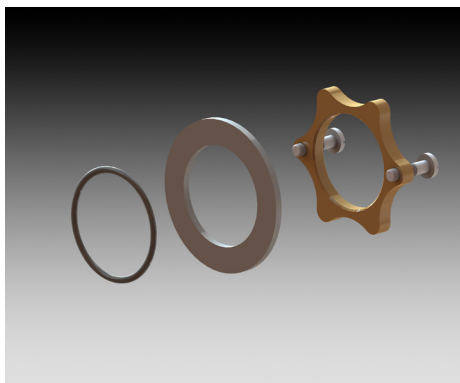
## - accessories

**15 210.590**

**All media**

**Mounting kit M40**

Complete mounting kit for front control valves, M40x1.5.

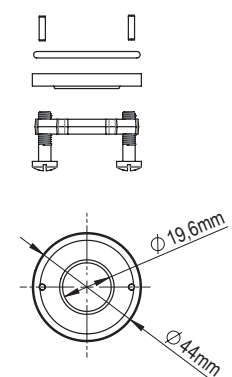
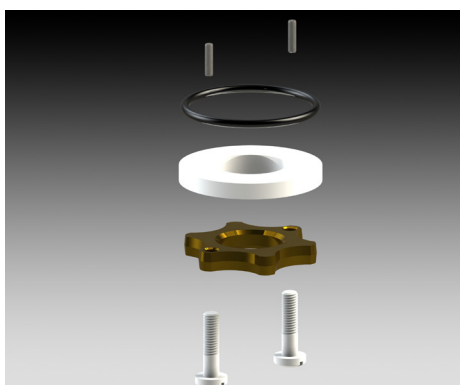


**19 141.000**

**All media**

**Mounting kit G1/2**

Complete mounting kit for fittings with G1/2 mounting connection.



**19 142.000**

**All media**

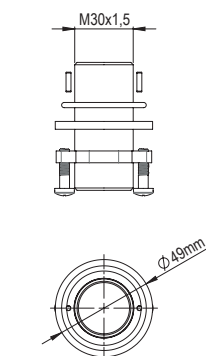
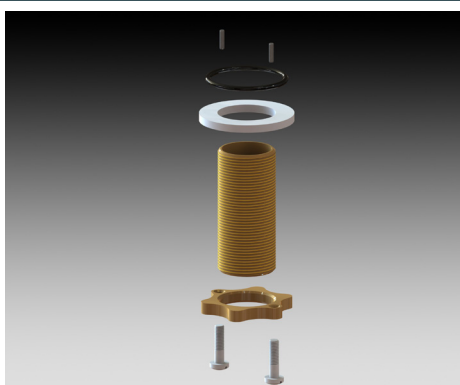
**Mounting kit M30 x 1,5**

Complete mounting kit for fittings with M30 x 1.5 mounting connection.

Other options:

19 143.000 - 30 mm

19 144.000 - 90 mm



**15 279.319**

**Water**

**Pipe interruptor**

Pipe interruptor with permanent atmospheric vent.

Back flow preventer to be mounted between the spout and nozzle.

When mounting on fittings from XL34- or XL36-series please order an adapter 25390071001.

