















## SPARE PARTS

**Headworks, handles, nozzles etc.**

99B0108 - 23.07.2024

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# HEADWORK FOR WATER

## RUBBER HEADWORK

### Specifications

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, coolant water

Temperature range: Please refer to the individual fitting

Max. working pressure: 10 bar / 147 psi

### Materials with media contact

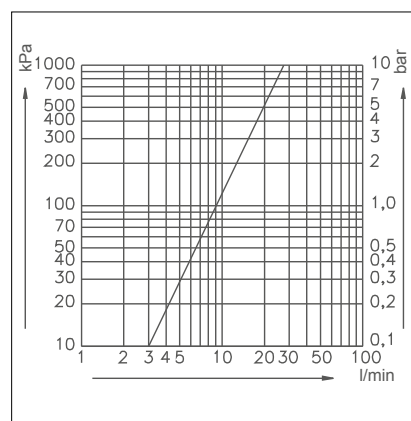
Metals: Brass

Sealing: EPDM




Lubricant: Silicone based

For further options contact **BROEN-LAB**

### Flow chart



### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork 	2575 014 <b>10XX</b>	2575 015 <b>10XX</b>
Headwork 	19 77 000	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>01</b>	WPC	CW	Potable water, cold
<b>02</b>	WPH	HW	Potable water, hot
<b>05</b>	WCF	CHWS	Coolant water, feed
<b>06</b>	WCR	CHWR	Coolant water, return
<b>07</b>	WNC		Non-potable water, cold
<b>08</b>	WNH		Non-potable water, hot

# HEADWORK FOR WATER

## CERAMIC HEADWORK

### Specifications

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

Opening/closing function: 1 x 180° turn

Media: Hot/cold water

Temperature range: Please refer to the individual fitting

Max. working pressure: 10 bar / 147 psi

Test pressure: 1 x working pressure

### Materials with media contact

Metals: Brass

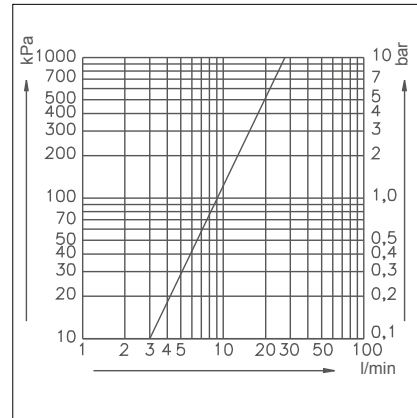
Sealing: EPDM

Plastics: POM

Lubricant: Silicone based

Ceramics: Al-oxyd 96%

### Flow chart






### For further options contact BROEN-LAB

Note: If the fitting/valve is delivered before 1996 then it has an M24 headwork and you need to order a new headwork with an M24-G1/2" adaptor:

19 850 009 - complete set with ceramic G1/2" headwork, M24-G1/2" adaptor, metal handle and media indication.

19 760 000 - set with ceramic G1/2" headwork and M24-G1/2" adaptor.

### Configuration options

Description	Item number	Item number	
		Polypropylene handle	Metal handle
Set with • Handle • Media indication		1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork		2575 016 <b>10XX</b>	2575 013 <b>10XX</b>
Headwork		19 76 000	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>01</b>	WPC	CW	Potable water, cold
<b>02</b>	WPH	HW	Potable water, hot
<b>05</b>	WCF	CHWS	Coolant water, feed
<b>06</b>	WCR	CHWR	Coolant water, return
<b>07</b>	WNC		Non-potable water, cold
<b>08</b>	WNH		Non-potable water, hot

# HEADWORK FOR WATER

## WRIST ACTION LEVER

### Specifications

BROEN-LAB UniFlex™ water fittings with wrist action levers are delivered with ceramic headworks. This headwork is specially designed to fit BROEN-LAB wrist action lever.

Opening/closing function: 90° turn, left or right turn closing

Media: Hot/cold water

Temperature range: Please refer to the individual fitting

Max. working pressure: 10 bar / 147 psi

Test pressure: 1 x working pressure

For further information, please ask for Technical Information TI23 at your BROEN-LAB representative.

### Materials with media contact

Metals: Brass

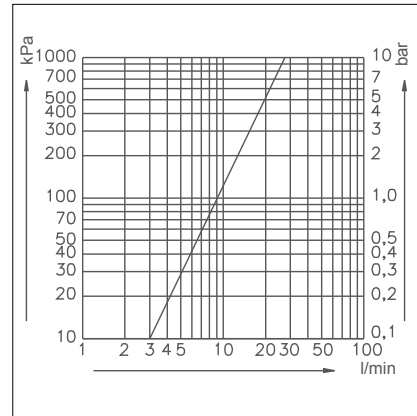
Sealing: EPDM, silicone

Plastics: POM

Lubricant: Silicone based









Ceramics: Al-oxyd 96%

### Flow chart



For further options contact BROEN-LAB

### Configuration options

<p><b>Left turn closing (WPC or WPH)</b></p> <p>Closed </p> <p>Open </p> <p>Page 6</p> <p><b>D</b></p>	<p><b>Right turn closing (WPC or WPH)</b></p> <p>Closed </p> <p>Open </p> <p>Page 6</p> <p><b>C</b></p>
<p><b>Left turn closing (WPC or WPH)</b></p> <p>Closed </p> <p>Open </p> <p>Page 7</p> <p><b>B</b></p>	<p><b>Right turn closing (WPC or WPH)</b></p> <p>Closed </p> <p>Open </p> <p>Page 7</p> <p><b>A</b></p>

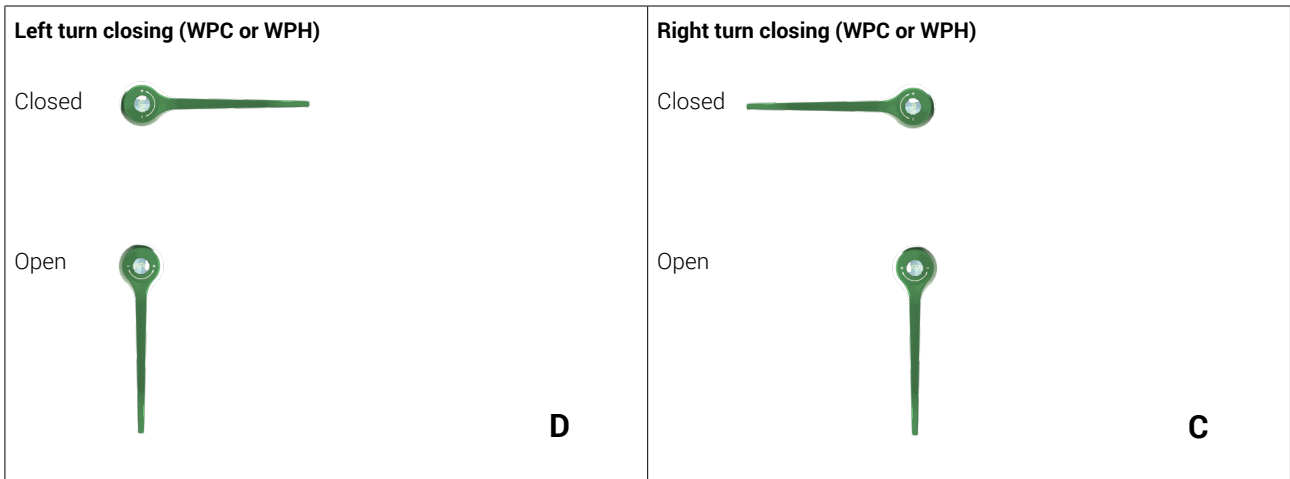
*Right turn closing* - the headwork/valve is closed by turning the handle clockwise

*Left turn closing* - the headwork/valve is closed by turning the handle counterclockwise

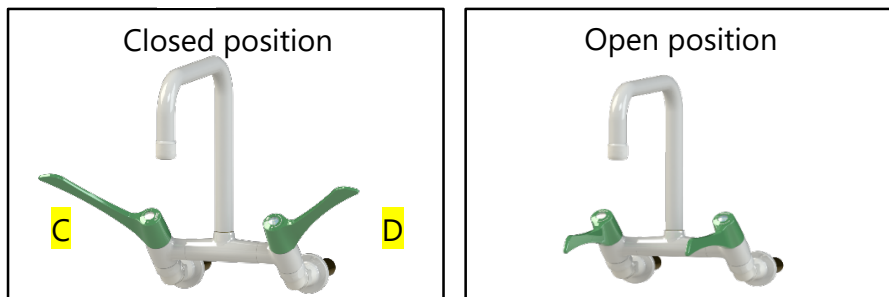
# HEADWORK FOR WATER

## WRIST ACTION LEVER

### Configuration options






### Example:



Note: If the fitting/valve is delivered before 1996 then it has an M24 headwork as well as an old type of wrist action handle and you need to order both handle and headwork according to the table below along with:  
19 839 000 - M24-G1/2" adaptor

### Configuration options

Description		Item number	
		Left turn closing	Right turn closing
Set with			
• Handle		2575 017 <b>10XX</b>	2575 018 <b>10XX</b>
• Media indication			
Set with			
• Handle		2575 011 <b>10XX</b>	2575 012 <b>10XX</b>
• Media indication			
• Headwork			
Headwork		19 76 4000	19 76 5000

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

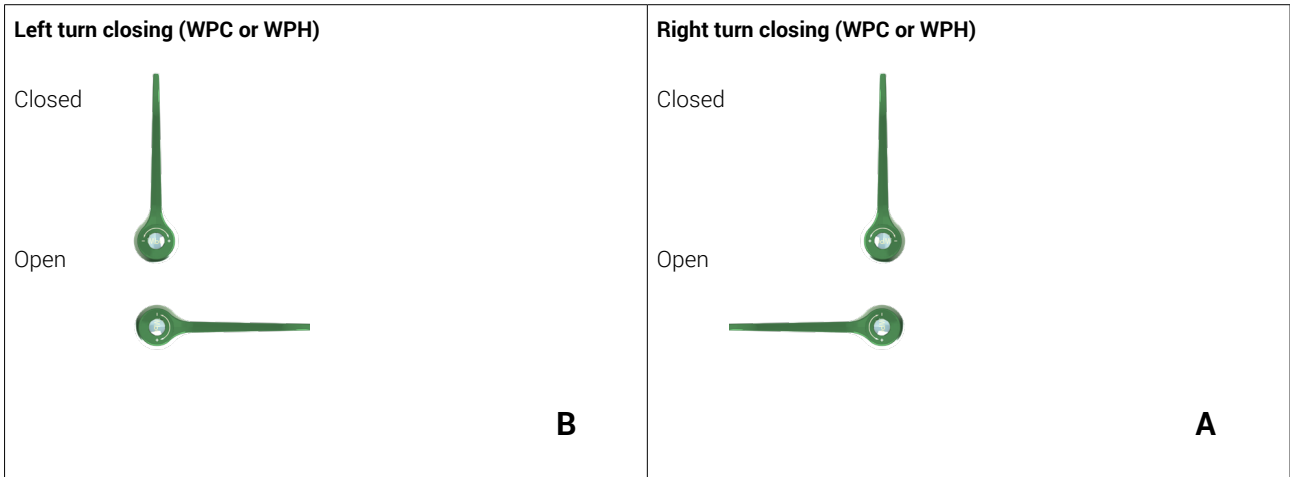
Replaxe **XX** with one of these media types:

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>01</b>	WPC	CW	Potable water, cold
<b>02</b>	WPH	HW	Potable water, hot
<b>07</b>	WNC		Non-potable water, cold
<b>08</b>	WNH		Non-potable water, hot

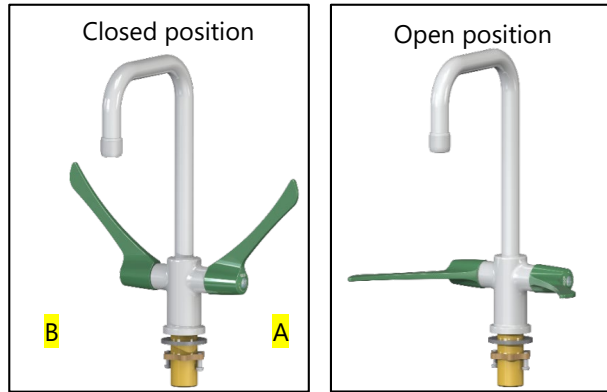
# HEADWORK FOR WATER

## WRIST ACTION LEVER

### Configuration options






### Example:



Note: If the fitting/valve is delivered before 1996 then it has an M24 headwork as well as an old type of wrist action handle and you need to order both handle and headwork according to the table below along with:  
19 839 000 - M24-G1/2" adaptor

### Configuration options

Description		Item number	
		Left turn closing	Right turn closing
Set with		2575 019 <b>10XX</b>	2575 020 <b>10XX</b>
• Handle			
• Media indication			
Set with		2575 009 <b>10XX</b>	2575 010 <b>10XX</b>
• Handle			
• Media indication			
• Headwork			
Headwork		19 76 4000	19 76 5000

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>01</b>	WPC	CW	Potable water, cold
<b>02</b>	WPH	HW	Potable water, hot
<b>07</b>	WNC		Non-potable water, cold
<b>08</b>	WNH		Non-potable water, hot

# HEADWORK FOR SPECIAL WATER

## DIAPHRAGM HEADWORK

### Specifications

Manual valve based on diaphragm headwork.  
The diaphragm is the only part of the headwork that has media contact (no lubrication or other materials have media contact).

Opening/closing function: 1,5 x 360° turn

Media: Special water

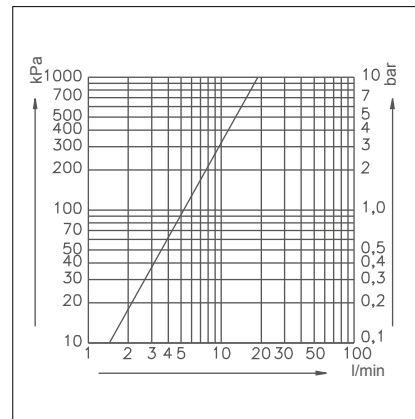
### Materials with media contact

Metals: No metals in media contact, only PTFE diaphragm in headwork





Sealing: EPDM

For further options contact BROEN-LAB

### Flow chart



### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork 	2575 021 <b>10XX</b>	2575 022 <b>10XX</b>
Elbow lever including headwork 	2575 078 <b>10XX</b>	
Headwork 	19 152 480*	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>03</b>	WDI	DW	Distilled water
<b>36</b>	WDC	DI	Dionised water, cold

\*We recommend ordering the complete set with a headwork and handle (either 2575021 10xx or 2575022 10xx) as there were different construction improvements of the headwork and handle in the past.

Only fittings from the 25-series a separate headwork 19152480 can be ordered.



# HEADWORK FOR BURNING GASES

## NEEDLE HEADWORK

### Specifications

BROEN-LAB UniFlex™ fittings for burning gases can be also delivered with a needle headwork where fine regulation of flow is required.

Opening/closing function: 3 x 360° turn

Media: Burning gases

Max. working pressure: 16 bar / 232 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

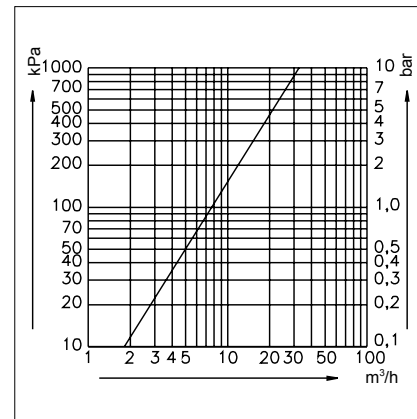
### Materials with media contact

Metals: Brass

Sealing: Nitrile (NBR)

Lubricant: Mineral oil based

### Flow chart



For further options contact BROEN-LAB

### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork	Not available as a spare part for safety reasons	
Headwork	Not available as a spare part for safety reasons	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>09</b>	G	GAS	Natural gas
<b>11</b>	LPG		Liquefied gas
<b>13</b>	C <sub>4</sub> H <sub>10</sub>		Butane
<b>15</b>	C <sub>3</sub> H <sub>8</sub>		Propane
<b>17</b>	C <sub>2</sub> H <sub>2</sub>	ACET	Acetylene
<b>19*</b>	H <sub>2</sub>	HYD	Hydrogen
<b>45</b>	C <sub>2</sub> H <sub>4</sub>		Methane

\*Handle and media indication is **red**.

# HEADWORK FOR NON-BURNING 2.0 GASES

## NEEDLE HEADWORK

### Specifications

BROEN-LAB UniFlex™ fittings for non-burning 2.0 gases are as a standard delivered with needle headwork for fine regulation of media flow.

Opening/closing function: 3 x 360° turn

Media: Non-burning 2.0 (99% clean) gases

Max. working pressure: 16 bar / 232 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

### Materials with media contact

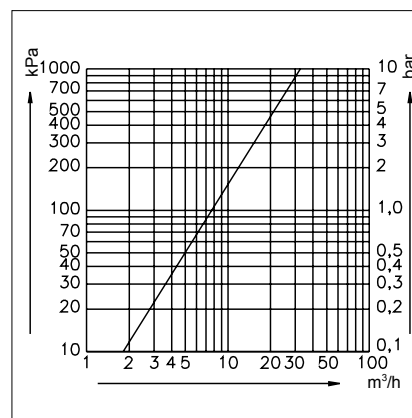
Metals: Brass

Plastics: PVDF

Sealing: FKM


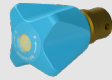

Lubricant: Perfluoropolyether based

### Flow chart



For further options contact BROEN-LAB

### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork 	2575 023 <b>10XX</b>	2575 024 <b>10XX</b>
Headwork 	02 55 7300	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>28</b>	V	VAC	Vacuum

# HEADWORK FOR NON-BURNING 4.0 GASES

## NEEDLE HEADWORK

### Specifications

BROEN-LAB UniFlex™ fittings for non-burning 4.0 gases/oxygen are as a standard delivered with needle headwork for fine regulation of media flow.

Opening/closing function: 3 x 360° turn

Media: Non-burning 4.0 (99.99% clean) gases/oxygen

Max. working pressure: 16 bar / 232 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

### Materials with media contact

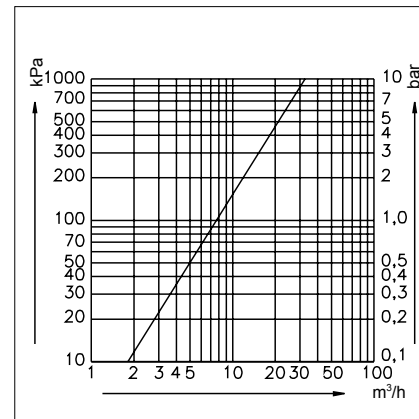
Metals: Brass

Plastics: PVDF

Sealing: FKM


Lubricant: Perfluoropolyether based

### Flow chart



For further options contact BROEN-LAB

### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork	Not available as a spare part for safety reasons	
Headwork	Not available as a spare part for safety reasons	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>22</b>	O2	OXY	Oxygen
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>27</b>	N <sub>2</sub> O	N2O	Dinitrogen monoxide
<b>28</b>	V	VAC	Vacuum

# HEADWORK FOR NON-BURNING 5.0 GASES

## NEEDLE HEADWORK

### Specifications

BROEN-LAB UniFlex™ fittings for non-burning 5.0 gases with needle headwork are suitable for fine regulation of media flow.

Opening/closing function: 3 x 360° turn

Media: Non-burning 5.0 (99.999% clean) gases

Max. working pressure: 21 bar / 305 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

### Materials with media contact

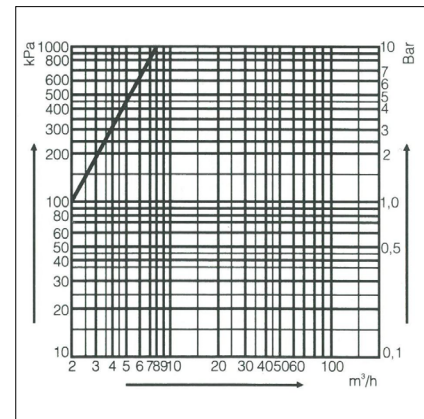
Metals: Brass

Plastics: PVDF

Sealing: FKM


Lubricant: Perfluoropolyether based

### Flow chart



For further options contact BROEN-LAB

### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with <ul style="list-style-type: none"> <li>• Handle</li> <li>• Media indication</li> </ul> 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with <ul style="list-style-type: none"> <li>• Handle</li> <li>• Media indication</li> <li>• Headwork</li> </ul>	Not available as a spare part for safety reasons	
Headwork	Not available as a spare part for safety reasons	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>22</b>	O2	OXY	Oxygen
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>27</b>	N <sub>2</sub> O	N2O	Dinitrogen monoxide
<b>28</b>	V	VAC	Vacuum

## HEADWORK FOR NON-BURNING 6.0 GASES

### NEEDLE HEADWORK

#### Specifications

BROEN-LAB UniFlex™ fittings for non-burning 6.0 gases with needle headwork are suitable for fine regulation of media flow.

Opening/closing function: 1.5 x 360° turn

Media: Non-burning 6.0 (99.9999% clean) gases

Max. working pressure: 21 bar / 305 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

#### Materials with media contact


Metals: Brass, SS

Plastics: PVDF

Lubricant: Perfluoropolyether based

**For further options contact BROEN-LAB**

#### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with <ul style="list-style-type: none"> <li>• Handle</li> <li>• Media indication</li> </ul> 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with <ul style="list-style-type: none"> <li>• Handle</li> <li>• Media indication</li> <li>• Headwork</li> </ul>	Not available as a spare part for safety reasons	
Headwork	Not available as a spare part for safety reasons	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>22</b>	O2	OXY	Oxygen
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>27</b>	N <sub>2</sub> O	N2O	Dinitrogen monoxide
<b>28</b>	V	VAC	Vacuum

# HEADWORK FOR NON-BURNING 2.0 GASES / VACUUM

## HIGH FLOW HEADWORK

### Specifications

BROEN-LAB UniFlex™ fittings for vacuum are as a standard delivered with a high flow headwork. This headwork ensures high flow of media and can also be used for other non-burning 2.0 gases.

Opening/closing function: 1.5 x 360° turn

Media: Vacuum and non-burning 2.0 (99% clean) gases

Working pressure: -1 to 16 bar / -14.5 to 232 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

### Materials with media contact

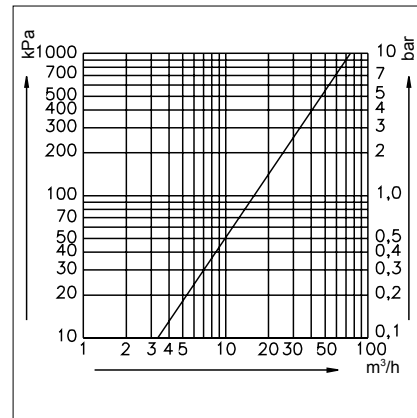
Metals: Brass

Plastics: PVDF

Sealing: FKM


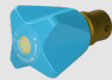

Lubricant: Perfluoropolyether based

### Flow chart



For further options contact BROEN-LAB

### Configuration options

Description	Item number	Item number	
		Polypropylene handle	Metal handle
Set with • Handle • Media indication 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>	
Set with • Handle • Media indication • Headwork 	2575 025 <b>10XX</b>	2575 026 <b>10XX</b>	
Headwork 	02 55 6300		

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>28</b>	V	VAC	Vacuum

# HEADWORK FOR NON-BURNING 5.0 GASES / VACUUM

## HIGH FLOW HEADWORK

### Specifications

BROEN-LAB UniFlex™ fittings for 5.0 gases delivered with a stop / high flow headwork ensure high flow of media. Can also be used for vacuum.

Opening/closing function: 1.5 x 360° turn

Media: Non-burning 5.0 (99.999% clean) gases

Max. working pressure: 21 bar / 305 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

### Materials with media contact

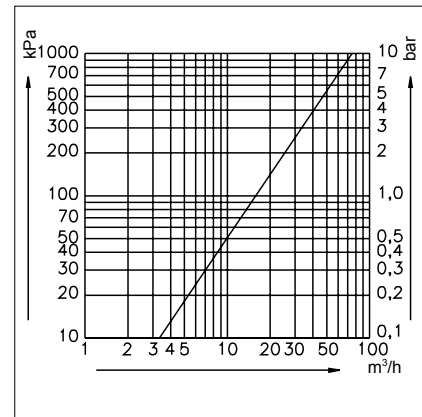
Metals: Brass

Plastics: PVDF

Sealing: FKM


Lubricant: Perfluoropolyether based

### Flow chart



For further options contact BROEN-LAB

### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with <ul style="list-style-type: none"> <li>• Handle</li> <li>• Media indication</li> </ul> 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with <ul style="list-style-type: none"> <li>• Handle</li> <li>• Media indication</li> <li>• Headwork</li> </ul>	Not available as a spare part for safety reasons	
Headwork	Not available as a spare part for safety reasons	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>22</b>	O2	OXY	Oxygen
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>27</b>	N <sub>2</sub> O	N2O	Dinitrogen monoxide
<b>28</b>	V	VAC	Vacuum

## HEADWORK FOR NON-BURNING 6.0 GASES / VACUUM STOP / HIGH FLOW HEADWORK

### Specifications

BROEN-LAB UniFlex™ fittings for 6.0 gases delivered with a stop/high flow headwork ensure high flow of media. Can also be used for vacuum.

Opening/closing function: 1.5 x 360° turn

Media: Non-burning 6.0 (99.9999% clean) gases

Max. working pressure: 21 bar / 305 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

### Materials with media contact


Metals: Brass

Plastics: PVDF

Lubricant: Perfluoropolyether based

**For further options contact BROEN-LAB**

### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork	Not available as a spare part for safety reasons	
Headwork	Not available as a spare part for safety reasons	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>22</b>	O2	OXY	Oxygen
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>27</b>	N <sub>2</sub> O	N2O	Dinitrogen monoxide
<b>28</b>	V	VAC	Vacuum



# HEADWORK FOR NON-BURNING 2.0, 4.0 AND 5.0 GASES

## MICRO FLOW HEADWORK

### Specifications

BROEN-LAB Micro flow headwork ensures a very fine regulation of media where flow of gas is close to zero and microscopic flow rate is required.

Opening/closing function: 7.5 x 360° turn

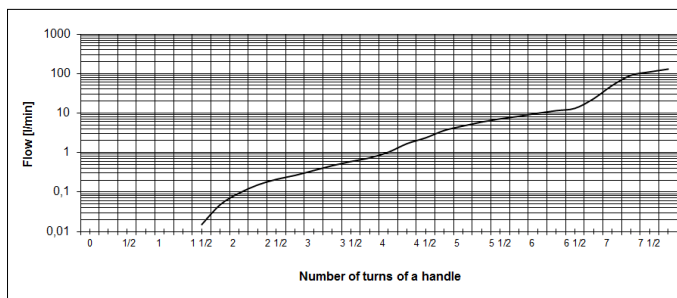
Media: Non-burning gases up to 5.0 quality

Max. working pressure: 16 bar / 232 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

### Flow chart



### Materials with media contact

Metals: Brass


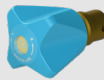

Plastics: PVDF

Sealing: FKM

Lubricant: Perfluoropolyether based

For further options contact BROEN-LAB

### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork 	2575 027 <b>10XX</b> Only available as spare part up to 2.0	2575 028 <b>10XX</b> Only available as spare part up to 2.0
Headwork 	19 15 4400 Only available as spare part up to 2.0	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>22</b>	O2	OXY	Oxygen
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>27</b>	N <sub>2</sub> O	N2O	Dinitrogen monoxide
<b>28</b>	V	VAC	Vacuum

# HEADWORK FOR BURNING GASES

## PRESS/TURN HEADWORK

### Specifications

BROEN-LAB UniFlex™ fittings for burning gases can be delivered with a safety press/turn headwork, which prevents from accidental opening of the valve.

Opening/closing function: 90° turn

Media: Burning gases

Max. working pressure: 7 bar / 102 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

### Materials with media contact

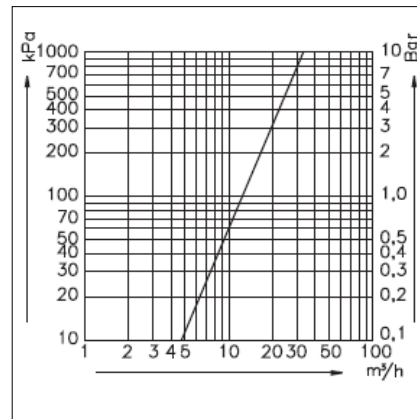
Metals: Brass

Sealing: Nitrile (NBR)

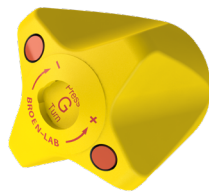
Lubricant: Mineral oil based

Ceramics: Al2O3 96%

### Flow chart



For further options contact BROEN-LAB



Press/Turn POP-UP handle



Press/Turn handle

### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork	Not available as a spare part for safety reasons	
Headwork	Not available as a spare part for safety reasons	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

Replaxe **XX** with one of the media types on the next page:

Press/turn POP-UP	Press/turn	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>10</b>	<b>31</b>	G	GAS	Natural gas
<b>12</b>	<b>32</b>	LPG		Liquefied gas
<b>14</b>	<b>47</b>	C <sub>4</sub> H <sub>10</sub>		Butane
<b>16</b>	<b>48</b>	C <sub>3</sub> H <sub>8</sub>		Propane
<b>18</b>	<b>49</b>	C <sub>2</sub> H <sub>2</sub>	ACET	Acetylene
<b>20*</b>	<b>34*</b>	H <sub>2</sub>	HYD	Hydrogen
<b>46</b>	<b>50</b>	C <sub>2</sub> H <sub>4</sub>		Methane

\*Handle and media indication is **red**.

## HEADWORK FOR BURNING GASES

### 1/4 TURN HEADWORK

#### Specifications

BROEN-LAB UniFlex™ fittings for burning gases can be delivered with a 1/4 turn headwork, which is based on the ball-valve principle and has metal against metal in fully open or closed position.

Opening/closing function: 90° turn

Media: Burning gases

Max. working pressure: 7 bar / 102 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

#### Materials with media contact


Metals: Brass

Sealing: Nitrile (NBR)

Lubricant: Mineral oil based

**For further options contact BROEN-LAB**

#### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork	Not available as a spare part for safety reasons	
Headwork	Not available as a spare part for safety reasons	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>09</b>	G	GAS	Natural gas
<b>11</b>	LPG		Liquefied gas
<b>13</b>	C <sub>4</sub> H <sub>10</sub>		Butane
<b>15</b>	C <sub>3</sub> H <sub>8</sub>		Propane
<b>17</b>	C <sub>2</sub> H <sub>2</sub>	ACET	Acetylene
<b>19*</b>	H <sub>2</sub>	HYD	Hydrogen
<b>45</b>	C <sub>2</sub> H <sub>4</sub>		Methane

\*Handle and media indication is **red**.

## HEADWORK FOR NON-BURNING 2.0 GASES / VACUUM

### 1/4 TURN HEADWORK

#### Specifications

BROEN-LAB UniFlex™ fittings for non-burning gases can be delivered with a 1/4 turn headwork, which is based on the ball-valve principle and has metal against metal in fully open or closed position.

Opening/closing function: 90° turn

Media: Non-Burning gases

Max. working pressure: 16 bar / 232 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

#### Materials with media contact


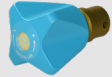

Metals: Brass

Sealing: FKM

Lubricant: Perfluoropolyether oil based

**For further options contact BROEN-LAB**

#### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with • Handle • Media indication	 1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with • Handle • Media indication • Headwork	 2575 029 <b>10XX</b>	2575 030 <b>10XX</b>
Headwork	 15 30 482	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>28</b>	V	VAC	Vacuum

## HEADWORK FOR NON-BURNING 4.0

### 1/4 TURN HEADWORK

#### Specifications

BROEN-LAB UniFlex™ fittings for 4.0 gases can be delivered with a 1/4 turn headwork, which is based on the ballvalve principle and has metal against metal in fully open or closed position.

Opening/closing function: 90° turn

Media: Non-Burning gases

Max. working pressure: 16 bar / 232 psi

Allowable test pressure after installation:

1.5 x max. working pressure without function of the valve

#### Materials with media contact



Metals: Brass

Sealing: FKM

Lubricant: Perfluoropolyether oil based

**For further options contact BROEN-LAB**

#### Configuration options

Description	Item number	
	Polypropylene handle	Metal handle
Set with <ul style="list-style-type: none"> <li>• Handle</li> <li>• Media indication</li> </ul> 	1915 0140 <b>10XX</b>	1916 0149 <b>10XX</b>
Set with <ul style="list-style-type: none"> <li>• Handle</li> <li>• Media indication</li> <li>• Headwork</li> </ul>	Not available as a spare part for safety reasons	
Headwork 	Not available as a spare part for safety reasons	

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

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

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>22</b>	O2	OXY	Oxygen
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>27</b>	N <sub>2</sub> O	N2O	Dinitrogen monoxide
<b>28</b>	V	VAC	Vacuum

## DISABILITY FRIENDLY HANDLES

### Specifications

BROEN-LAB UniFlex™ fittings for can be delivered with a disability friendly handle (ADA), when using a 90° turn headwork.

BROEN-LAB UniFlex™ fittings with ADA option complies with the 2010 ADA Standard. All handles can be operated with one hand and do not require tight grasping, pinching or twisting of the wrist. The force required to activate the handle does not exceed 5 pounds (22.2 N).

Media: Water: (Ceramic 90°)









Special water: (Diaphragm 1 1/2 turn headwork)

Burning gases and non-burning gases, 2.0, 4.0 and 5.0: (1/4 turn headwork)

**For further options contact BROEN-LAB**

### Configuration options

ADA handles (headworks are to be ordered separately)

	Closed position	Open position
2575 050 10XX		
2575 051 10XX		
2575 033 10XX		
2575 034 10XX		

Replace country code **10** (EN13792-norm) with **20** for SEFA 7 media indication.

Replaxe **XX** with one of the media types on the next page:

## DISABILITY FRIENDLY HANDLES

### Water

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>01</b>	WPC	CW	Potable water, cold
<b>02</b>	WPH	HW	Potable water, hot
<b>05</b>	WCF	CHWS	Coolant water, feed
<b>06</b>	WCR	CHWR	Coolant water, return
<b>07</b>	WNC		Non-potable water, cold
<b>08</b>	WNH		Non-potable water, hot

### Special Water

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>03</b>	WDI	DW	Distilled water
<b>36</b>	WDC	DI	Dionised water, cold

### Burning gas

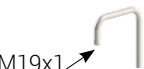





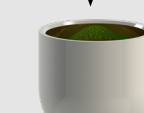


Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>09</b>	G	GAS	Natural gas
<b>11</b>	LPG		Liquefied gas
<b>13</b>	C <sub>4</sub> H <sub>10</sub>		Butane
<b>15</b>	C <sub>3</sub> H <sub>8</sub>		Propane
<b>17</b>	C <sub>2</sub> H <sub>2</sub>	ACET	Acetylene
<b>19</b>	H <sub>2</sub>	HYD	Hydrogen
<b>45</b>	C <sub>2</sub> H <sub>4</sub>		Methane

### Non-Burning gas

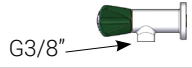

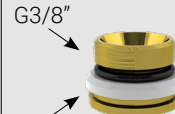



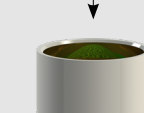


Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>22</b>	O2	OXY	Oxygen
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>27</b>	N <sub>2</sub> O	N2O	Dinitrogen monoxide
<b>28</b>	V	VAC	Vacuum

## OTHER SPARE PARTS

### 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

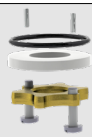

### G3/8" - Nozzles and aerators for valves and outlets

 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	Water: 2539 040 1001  Technical Gas 2.0: 2539 040 1021	2539 006 1001  Aerator with integrated flow restrictor 5 l/min: 2539 045 1001	2539 008 1001	2539 042 1001




## OTHER SPARE PARTS




### Mounting set

Illustration	Description:	BROEN-LAB item no.
	Mounting set for G1/2 connection Mounting set for M30x1,5 connection	19 141 000 19 190 000
	Threaded inlet pipe M30x1,5 L=30mm L=60mm L=90mm	19 190 03 19 190 02 19 190 04


### O-rings

Illustration	Description:	BROEN-LAB item no.
	Support and o-rings for swivel spout	15 304 490
	O-rings for 18 mm spouts Produced from 2003-2014	09 701 61
	O-rings for 19 mm spouts Produced from 19XX -2003	09 701 63

### Cartridge

Illustration	Description:	BROEN-LAB item no.
	Cartridge for flow and temperature Front Control Valve	15 304 46
	Cartridge for 2 step opening Front Control Valve	15 304 47
	Cartridge for flow and temperature limitation One handle mixer	15 304 500

### Flashback arrester

Illustration	Description:	BROEN-LAB item no.
	Flash back arrester (inlet: 1/4" NPT - outlet: 1/4" NPT female) (To be used for Acetylene)	96T1006

## MEDIA OVERVIEW

### Water

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>01</b>	WPC	CW	Potable water, cold
<b>02</b>	WPH	HW	Potable water, hot
<b>05</b>	WCF	CHWS	Coolant water, feed
<b>06</b>	WCR	CHWR	Coolant water, return
<b>07</b>	WNC		Non-potable water, cold
<b>08</b>	WNH		Non-potable water, hot

### Water (Elbow lever)

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>01</b>	WPC	CW	Potable water, cold
<b>02</b>	WPH	HW	Potable water, hot
<b>07</b>	WNC		Non-potable water, cold
<b>08</b>	WNH		Non-potable water, hot

### Special Water

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>03</b>	WDI	DW	Distilled water
<b>36</b>	WDC	DI	Dionised water, cold

### Burning gas

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>09</b>	G	GAS	Natural gas
<b>11</b>	LPG		Liquefied gas
<b>13</b>	C <sub>4</sub> H <sub>10</sub>		Butane
<b>15</b>	C <sub>3</sub> H <sub>8</sub>		Propane
<b>17</b>	C <sub>2</sub> H <sub>2</sub>	ACET	Acetylene
<b>19</b>	H <sub>2</sub>	HYD	Hydrogen
<b>45</b>	C <sub>2</sub> H <sub>4</sub>		Methane

## MEDIA OVERVIEW

### Burning gas - Press/turn - POP-UP

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>10</b>	G	GAS	Natural gas
<b>12</b>	LPG		Liquefied gas
<b>14</b>	C <sub>4</sub> H <sub>10</sub>		Butane
<b>16</b>	C <sub>3</sub> H <sub>8</sub>		Propane
<b>18</b>	C <sub>2</sub> H <sub>2</sub>	ACET	Acetylene
<b>20</b>	H <sub>2</sub>	HYD	Hydrogen
<b>46</b>	C <sub>2</sub> H <sub>4</sub>		Methane

### Burning gas - Press/turn

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>31</b>	G		Natural gas
<b>32</b>	LPG		Liquefied gas
<b>47</b>	C <sub>4</sub> H <sub>10</sub>		Butane
<b>48</b>	C <sub>3</sub> H <sub>8</sub>		Propane
<b>49</b>	C <sub>2</sub> H <sub>2</sub>		Acetylene
<b>50</b>	C <sub>2</sub> H <sub>4</sub>		Methane

### Non-Burning gas 2.0

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>28</b>	V	VAC	Vacuum

### Non-Burning gas 4.0, 5.0 and 6.0

Code:	Country code <b>10</b> EN13792	Country code <b>20</b> SEFA 7	Description
<b>21</b>	CA	AIR	Compressed Air
<b>22</b>	O <sub>2</sub>	OXY	Oxygen
<b>23</b>	N <sub>2</sub>	NIT	Nitrogen
<b>24</b>	CO <sub>2</sub>	CO2	Carbon Dioxide
<b>25</b>	Ar	AR	Argon
<b>26</b>	He	HE	Helium
<b>27</b>	N <sub>2</sub> O	N2O	Dinitrogen monoxide
<b>28</b>	V	VAC	Vacuum

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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.

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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 9001:2015. 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.