

steendam



Steendam lab furnishing supplies is a specialist supplier of sanitary products for professional workplaces, with the main focus on laboratories.

The products are characterised by a high quality level which is offered at competitive prices, whereby the latest developments and demands from the marketplace are taken into account continuously.

Steendam lab furnishing supplies works together with carefully selected suppliers, and is developing and offering its own range of products as well.

The product range includes 5 product groups:

- (laboratory)taps
- safety showers
- worktops
- sinks
- drainage systems.

Standard products are stocked and available for immediate delivery.

This catalogue offers the basic product information. Detailed technical information about the products is available on our website, www.steendam.nl.

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Agreements about sale and delivery



Wall mounting taps

Material: brass
 Finish: epoxy powder coating
 Colour: lightgrey (RAL-7035)
 Handle: synthetic, darkgrey (approx. RAL-7012)
 Medium: WNC and/or WHC

Water tap

Wall mounting tap without flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38



Article	Description	Connection	Pin
10-11002.1	Standout = 25 mm	G=3/8", 10 mm	no

Wall mounting tap, single tap

Wall mounting tap with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

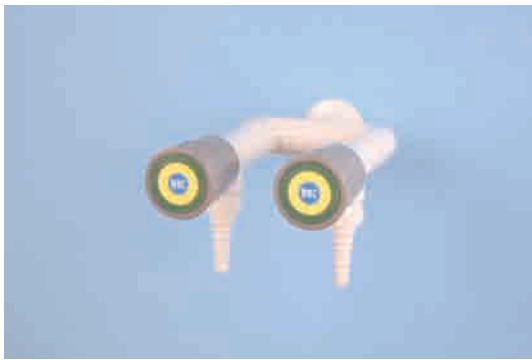
epdm headwork: see page 38



Article	Description	Connection	Pin
10-11012.2V8	Standout = 80 mm	G=1/2", 58 mm	no
10-11012.2V8P	Standout = 80 mm	G=1/2", 65 mm	yes
10-11012.2	Standout = 150 mm	G=1/2", 58 mm	no
10-11012.2P	Standout = 150 mm	G=1/2", 65 mm	yes
10-11012.2V18	Standout = 180 mm	G=1/2", 58 mm	no
10-11012.2V18P	Standout = 180 mm	G=1/2", 65 mm	yes



Wall mounting taps



Wall mounting tap, 2-way tap

Wall mounting tap with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Distance between the outlets: 80 mm
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38

Article	Description	Connection	Pin
10-11014.2	Standout = 110mm	G=1/2", 58mm	no



Wall mounting tap, swivel spout

Wall mounting tap with flange

The spout can be replaced by an other spout

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38

other spouts: see page 42

Article	Description	Connection	Pin
10-11030.2	Swivel S-spout; Standout = 200 mm	G=1/2, 58 mm	no
10-11031.2	Swivel U-spout; Standout = 200 mm	G=1/2, 58 mm	no
10-11033.2	Swivel Gooseneck-spout; Standout = 150 mm	G=1/2, 58 mm	no



Wall mounting taps

Elbow operated tap

Elbow operated tap with flange
Fixed spout

technical details:

- Connection thread: according to ISO-228/1
- Aerator: M22 (removable)
- Headwork: ceramic (90°-turn)

Available as option:
hose nozzle: see page 44



Article	Description	Connection	Pin
10-11222.2	Standout = 235 mm	G=1/2,58 mm	no



Bench mounting

Material: brass
 Finish: epoxy powder coating
 Colour: lightgrey (RAL-7035)
 Handle: synthetic, darkgrey (approx. RAL-7012)
 Medium: WNC and/or WHC



Column tap, single tap

Column with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38

Article	Description	Connection	Pin
10-11062.2	Standout = 150 mm, height = 150 mm	G=1/2", 100mm	no
10-11062.2P	Standout = 150 mm, height = 150 mm	G=1/2", 65mm	yes
10-11062.2V18	Standout = 180 mm, height = 300 mm	G=1/2", 100mm	no
10-11062.2V18P	Standout = 180 mm, height = 300 mm	G=1/2", 65mm	yes



Column tap, 2-way tap

Column with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38

Article	Description	Connection	Pin
10-11066.2	Standout = 150 mm, height = 150 mm	G=1/2", 100mm	no
10-11066.2P	Standout = 150 mm, height = 150 mm	G=1/2", 65mm	yes
10-11066.2V18	Standout = 180 mm, height = 300 mm	G=1/2", 100mm	no
10-11066.2V18P	Standout = 180 mm, height = 300 mm	G=1/2", 65mm	yes



Bench mounting

Column tap, 3-way tap

Column with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38



Article	Description	Connection	Pin
10-11068.2V18	Standout = 180 mm, height = 500 mm	G=1/2", 100mm	no
10-11068.2V18P	Standout = 180 mm, height = 500 mm	G=1/2", 65mm	yes

Column tap, 2-way tap, T-model

Column with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38



Article	Description	Connection	Pin
10-11063.2	Standout = 150 mm, height = 300 mm	G=1/2", 100mm	no
10-11063.2P	Standout = 150 mm, height = 300 mm	G=1/2", 65mm	yes

Gooseneck tap

Gooseneck tap with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38

other spouts: see page 42



Article	Description	Connection	Pin
10-11080.2	Swivel spout, standout = 150mm, height = 350mm	G=1/2", 100 mm	no
10-11080.2P	Swivel spout, standout = 150mm, height = 350mm	G=1/2", 65 mm	yes
10-11080.2F	Fixed spout, standout = 150mm, height = 350mm	G=1/2", 100 mm	no
10-11080.2PF	Fixed spout, standout = 150mm, height = 350mm	G=1/2", 65mm	yes



Bench mounting



Elbow operated tap

Elbow operated tap with flange
Fixed spout

technical details:

- Connection thread: according to ISO-228/1
- Aerator: M22 (removable)
- Headwork: ceramic (90°-turn)

*Available as option:
hoze nozzle: see page 44*

Article	Description	Connection	Pin
10-11223.2	Standout = 250 mm, height = 300 mm	G=1/2", 100mm	no



Pendent mounting

Material: brass
 Finish: epoxy powder coating
 Colour: lightgrey (RAL-7035)
 Handle: synthetic, darkgrey (approx. RAL-7012)
 Medium: WNC and/or WHC

Water tap, single tap

Pendent mounting, with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38



Article	Description	Connection	Pin
10-11010.2	Height = 130 mm	G=1/2", 58mm	no

Water tap, 2-way tap

Pendent mounting with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38



Article	Description	Connection	Pin
10-11019.2	Height 140 mm; distance between the nozzles 85 mm	G=1/2", 58mm	no
10-11021.2	Height 170 mm; distance between the nozzles 80 mm, handles in front	G=1/2", 58mm	no
10-11022.2	Height 170 mm; distance between the nozzles 80 mm, handle in front and handle behind	G=1/2", 58mm	no



Fold-down taps

Material: brass
 Finish: epoxy powder coating
 Colour: lightgrey (RAL-7035)
 Handle: synthetic, darkgrey (approx. RAL-7012)
 Medium: WNC and/or WHC



Bench mounting

Water tap with swivel gooseneck-spout

technical details:

- Nozzle height: 170 mm
- Connection thread: according to ISO-228/1
- Internal ball valve closes water supply in fold-down position
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38

Article	Description	Connection	Pin
10-11243.2	Standout = 190 mm, height = 290 mm single spout	G=1/2", 100mm	no
10-11240.2	Standout = 190 mm, height = 290 mm double spout	G=1/2", 100mm	no



Mounting in the sink

Water tap wall mounting with swivel gooseneck-spout

technical details:

- Connection thread: according to ISO-228/1
- Internal ball valve closes water supply in fold-down position
- Hose nozzle: 1/2" (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

epdm headwork: see page 38

Article	Description	Connection	Pin
10-11242.2	Standout = 100 mm, height = 250 mm single spout	G=1/2", 58mm	no
10-11241.2	Standout = 100 mm, height = 250 mm double spout	G=1/2", 58mm	no



Wall mounting

Material: brass
 Finish: epoxy powder coating
 Colour: lightgrey (RAL-7035)
 Handle: synthetic, darkgrey (approx. RAL-7012)
 Medium: WNC and WHC

1-hole mixer tap

Mixertap with swivel gooseneck-spout without flange

technical details:

- Connection: 2 x copper tube \varnothing 10 mm, length 500 mm
- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

other spouts: see page 42

epdm headwork: see page 38



Article	Description	Connection	Pin
10-11035.3	Standout = 150 mm	G=3/4", 50mm	no

2-hole mixer tap

Mixertap with swivel spout, with flange

technical details:

- Supplied with S-connections (2 pieces)
- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)
- Centre-to-centre distance: 150mm +/- 30mm

Available as option:

aerator: see page 45

other spouts: see page 42

epdm headwork: see page 38



Article	Description	Connection	Pin
10-11036.0	Standout = 200 mm with swivel U-spout	G=1/2"	no
10-11037.0	Standout = 200 mm with swivel S-spout	G=1/2"	no



Wall mounting



Vertical mixer tap

Mixer tap with swivel spout and flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)
- Centre-to-centre distance: 75 mm

Available as option:

aerator: see page 45

other spouts: see page 42

epdm headwork: see page 38

Article	Description	Connection	Pin
10-11038.2	Standout = 200 mm, swivel U-spout	G=1/2", 58mm	no
10-11039.2	Standout = 200 mm, swivel S-spout	G=1/2", 58mm	no



Bench mounting

Material: brass
 Finish: epoxy powder coating
 Colour: lightgrey (RAL-7035)
 Handle: synthetic, darkgrey (approx. RAL-7012)
 Medium: WNC and WHC

1-hole mixer tap

Mixertap without flange

technical details:

- Connection: 2 x copper tube \varnothing 8 mm
- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

other spouts: see page 42

epdm headwork: see page 38



Article	Description	Connection	Pin
10-11082.3	Standout = 200mm, height 170 mm	G=3/4";50mm	no

2-hole mixer tap

Mixertap with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

other spouts: see page 42

epdm headwork: see page 38



Article	Description	Connection	Pin
10-11083.2	Standout = 200 mm, height = 315 mm	G=1/2";100mm	no
10-11083.2S	Standout = 150 mm, height = 305 mm, wrist-control	G=1/2";100mm	no



Bench mounting



Boiler mixer tap

Low pressure mixertap without flange

technical details:

- Connection: 3 x copper tube \varnothing 8 mm, length 385 mm
- Aerator: M22 (removable)
- Headwork: ceramic (90°-turn)

Available as option:

hose nozzle: see page 44

other spouts: see page 42

epdm headwork: see page 38

Article	Description	Connection	Pin
10-11085.3	Standout = 180mm , height = 240 mm	G=3/4";50mm	no



Column with mixer tap and angle tap

Combination tap on single column with flange

technical details:

- Connection: 2 x copper tube \varnothing 8 mm
- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)

Available as option:

aerator: see page 45

other spouts: see page 42

epdm headwork: see page 38

Article	Description	Connection	Pin
10-11109.3	Column height 300mm	G=3/4";100mm	no



1-handle mixer taps

Material: brass
 Finish: epoxy powder coating
 Colour: lightgrey (RAL-7035)
 Handle: synthetic, darkgrey (approx. RAL-7012)
 Medium: WNC and WHC

Wall mounting

Elbow operating with swivel spout, with flange

technical details:

- Supplied with S-connections (2 pieces)
- Centre-to-centre distance: 150mm \pm 30 mm
- Spout with aerator
- Headwork: ceramic

straight couplings available as option



Article	Description	Connection	Pin
10-11040.0	Standout = 200 mm	G=1/2"	no

Bench mounting

Elbow operating and swivel spout, without flange

technical details:

- Nozzle height: 150 mm
- Connection: M8 rod, tap hole \varnothing 35mm
- Spout with aerator
- Headwork: ceramic



Article	Description	Connection	Pin
10-11086.0	Standout = 220 mm, height = 180 mm	2 x \varnothing 10 mm, L= 300 mm	no



Column mixer tap



Single column

technical details:

- Connection: 2 x copper tube \varnothing 8 mm
- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)

*Available as option:
aerator see page 45
other outlets see page 42*

Article	Description	Connection	Pin
10-11106.3	Standout=200mm, height column 300mm, swivel U-spout	G=3/4";100mm	
10-11105.3	Standout=200mm, height column 300mm, swivel S-spout	G=3/4";100mm	
10-11100.3	1-handle mixertap standout = 200 mm, height = 300 mm, with aerator	G=3/4";100mm	no



Double column

technical details:

- Hose nozzle: M22 (removable)
- Headwork: ceramic (90°-turn)

*Available as option:
aerator see page 45
other outlets see page 42*

Article	Description	Connection	Pin
10-11104.2	Standout = 200 mm, height column 300 mm, swivel U-spout	G=1/2",100mm	no
10-11103.2	Standout = 200 mm, height column 300 mm, swivel S-spout	G=1/2",100mm	no
10-11107.3	1-handle mixertap standout = 200 mm, height column 300 mm, with aerator	G=1/2";100mm	no



Wall mounting

Finish: epoxy powder coating

Colour: lightgrey (RAL-7035)

Handle: synthetic, darkgrey (approx. RAL-7012)

Medium: G (natural gas)

Also suitable for other flammable gases like propane, butane and methane

Wall mounting tap, single tap

Single tap, flammable gas

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ceramic, 'push-turn'

other medium indication on request



Article	Description	Connection	Pin
10-12000.1	Standout = 115 mm, without flange	G=3/8", 11mm	no
10-12003.1	Standout = 20 mm, 90°, without flange	G=3/8", 11mm	no
10-12050.2	Standout = 120 mm, with flange	G=1/2", 58mm	no
10-12050.2P	Standout = 120 mm, with flange	G=1/2", 65mm	yes

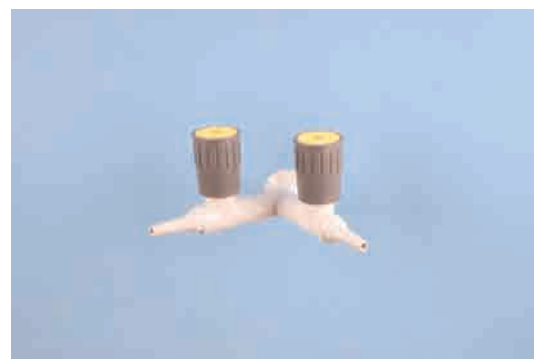
Wall mounting tap, 2-way tap

2-way tap flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ceramic, 'push-turn'

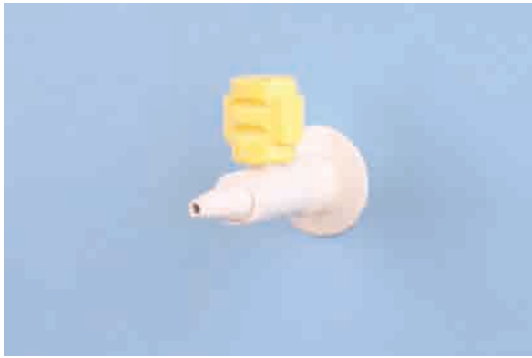
other medium indication on request



Article	Description	Connection	Pin
10-12060.2	Standout = 125 mm	G=1/2", 58mm	no
10-12060.2P	Standout = 125 mm	G=1/2", 65mm	yes



Wall mounting



Compact Line, single tap

Straight tap flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ball valve, 'lift-turn'

Article	Description	Connection	Pin
10-40014.2	Standout = 80 mm	G=1/2", 58mm	no
10-40014.2P	Standout = 80 mm	G=1/2", 65mm	yes
10-40014.2D	Standout = 80 mm, drop-lever handle	G=1/2", 58mm	no



Compact Line, 2-way tap

Straight tap flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ball valve, 'lift-turn'

Article	Description	Connection	Pin
10-40015.2	Standout = 80 mm	G=1/2", 58mm	no
10-40015.2P	Standout = 80 mm	G=1/2", 65mm	yes
10-40015.2D	Standout = 80 mm, drop-lever handle	G=1/2", 58mm	no



Bench mounting

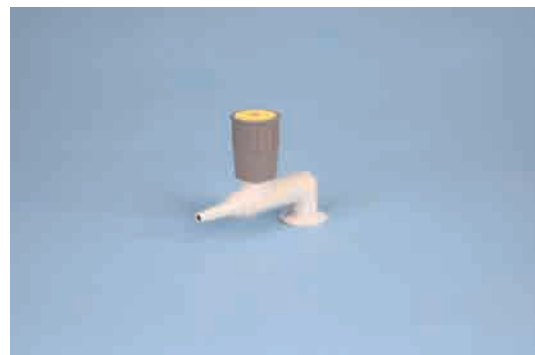
Column tap, single tap

Single column tap flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ceramic, 'push-turn'

other medium indication on request



Article	Description	Connection	Pin
10-12010.2L	Height = 38 mm	G=1/2",80mm	no
10-12010.2LP	Height = 38 mm	G=1/2",65mm	yes
10-12010.2	Height = 90 mm	G=1/2",80mm	no

Column tap, 2-way tap

2-way column tap flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ceramic, 'push-turn'

other medium indication on request



Article	Description	Connection	Pin
10-12011.2L	Height = 38 mm,(180°)	G=1/2",80mm	no
10-12011.2LP	Height = 38 mm,(180°)	G=1/2",65mm	yes
10-12011.2	Height = 90 mm,(180°)	G=1/2",80mm	no
10-12012.2L	Height = 38 mm,(90°)	G=1/2",80mm	no
10-12012.2LP	Height = 38 mm,(90°)	G=1/2",65mm	yes
10-12012.2	Height = 90 mm,(90°)	G=1/2",80mm	no
10-12010.2P	Height = 90 mm,(90°)	G=1/2",80mm	yes



Bench mounting



Column tap, 4-way tap

4-way column tap flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ceramic, 'push-turn'

other medium indication on request

Article	Description	Connection	Pin
10-12013.2	Height = 90 mm	G=1/2", 80mm	no



Compact Line, single tap

Single column flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ball valve, 'lift-turn'

Article	Description	Connection	Pin
10-40010.2P	Height = 33 mm	G=1/2", 65mm	yes
10-40010.2DP	Height = 33 mm, drop-lever handle	G=1/2", 65mm	yes



Compact Line, 2-way tap

Single column flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ball valve, 'lift-turn'

Article	Description	Connection	Pin
10-40011.2P	Height 33 mm (180°)	G=1/2", 65mm	yes
10-40011.2DP	Height 33 mm (90°), drop-lever handle	G=1/2", 65mm	yes
10-40012.2P	Height 33 mm (180°)	G=1/2", 65mm	yes
10-40012.2DP	Height 33 mm (90°), drop-lever handle	G=1/2", 65mm	yes



Bench mounting

Compact Line, 4-way tap

4-way column flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ball valve, 'lift-turn'



Article	Description	Connection	Pin
10-40013.2P	Height 33 mm	G=1/2",65mm	yes
10-40013.2DP	Height 33 mm , drop-lever handle	G=1/2",65mm	yes



Pendent mounting



Pendent gastap, single tap

Straight tap flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ceramic, 'push-turn'

other medium indication on request

Article	Description	Connection	Pin
10-12050.2	Standout 120mm	G=1/2", 58mm	no



Pendent gastap, 2-way tap

2-way tap for flammable gas with flange

technical details:

- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: ceramic, 'push-turn'

other medium indication on request

Article	Description	Connection	Pin
10-12064.2	Height = 150 mm, distance between the nozzles = 100 mm	G=1/2", 58mm	no



Bench mounting

Finish: epoxy powder coating
 Colour: lightgrey (RAL-7035)
 Handle: synthetic, darkgrey (approx. RAL-7012)
 Indication of medium: WNC/G

1 or 2 hole bench mounting

technical details:

- Connection: 2 x copper tube, \varnothing 8 mm (gas) and \varnothing 10 mm (water)
- Hose nozzle water: 1/2" removable
- Hose nozzle gas: fixed
- Headwork water: ceramic (90°-turn)
- Headwork gas: ceramic ('push-turn')
- Flange: \varnothing 60 mm

Available as option:

aerator: see page 45

epdm headwork: see page 38



Article	Description	Connection	Height
10-17010.3	1 water tap and 2 gas taps (180°)	G=3/4", 100mm	300 mm
10-17020.3	2 water taps (V) and 2 gas taps (180°)	G=3/4", 100mm	300 mm
10-17030.3	2 water taps (U) and 2 gas taps (180°)	G=3/4", 100mm	300 mm
10-17080.3	4 water taps and 4 gas taps	G=3/4", 100mm	300 mm
10-17050.3	2 water taps and 2 gas taps 2-hole	G=3/4", 100mm	200 mm
10-17060.3	2 water taps and 4 gas taps 2-hole	G=3/4", 100mm	200mm



Nickel plated taps

Material: brass with nickel plating
 Finish: epoxy powder coating
 Colour: lightgrey (RAL-7035)
 Handle: synthetic, darkgrey (approx.RAL-7012)
 Indication of medium: WDC



Wall mounting, fixed spout

Single wall mounted tap

technical details:

- Tap is made of brass, with nickel plating on the inside
- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: polypropylene / ceramic (90°-turn)

Article	Description	Connection	Pin
10-11002.1NK	Standout = 25 mm , without flange	G=3/8",10mm	no
10-11012.2V8NK	Angle tap, standout = 80 mm, with flange	G=1/2",58mm	no
10-11012.2NK	Angle tap, standout = 150mm, with flange	G=1/2",58 mm	no
10-11012.2V18NK	Angle tap, standout = 180 mm, with flange	G=1/2",58mm	no



Wall mounting, swivel spout

Wall mounting tap with flange

technical details:

- Tap is made of brass, with nickel plating on the inside
- Connection thread: according to ISO-228/1
- Hose nozzle: M22 (removable)
- Headwork: polypropylene / ceramic (90°-turn)

Article	Description	Connection	Pin
10-11030.2NK	Standout = 200 mm , swivel S-spout	G=1/2",58mm	no
10-11031.2NK	Standout = 200 mm , swivel U-spout	G=1/2",58mm	no
10-11033.2NK	Standout = 150 mm , swivel gooseneck spout	G=1/2",58mm	no



Nickel plated taps

Column tap, single tap

Column with flange

technical details:

- Tap is made of brass, with nickel plating on the inside
- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: polypropylene / ceramic (90°-turn)



Article	Description	Connection	Pin
10-11062.2NK	Standout = 150 mm , height = 150 mm	G=1/2",100mm	no
10-11062.2V18NK	Standout = 180 mm , height = 300 mm	G=1/2",100mm	no

Column tap, 2-way tap

Column with flange

technical details:

- Tap is made of brass, with nickel plating on the inside
- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)
- Headwork: polypropylene / ceramic (90°-turn)



Article	Description	Connection	Pin
10-11063.2NK	Standout = 150 mm , height = 300 mm , T-model	G=1/2",100mm	no
10-11066.2NK	Standout = 150 mm , height = 150 mm , U-model	G=1/2",100mm	no
10-11066.2V18NK	Standout = 180 mm , height = 300 mm , U-model	G=1/2",100mm	no

Gooseneck tap

Gooseneck tap with flange

technical details:

- Nozzle height: 220 mm
- Tap is made of brass, with nickel plating on the inside
- Connection thread: according to ISO-228/1
- Hose nozzle: M22 (removable)
- Headwork: polypropylene / ceramic (90°-turn)



Article	Description	Connection	Pin
10-11080.2NK	Standout = 150 mm , height = 350 mm , swivel spout	G=1/2",100mm	no
10-11080.2FNK	Standout = 150 mm , height = 350 mm , fixed spout	G=1/2",100mm	no



Taps with synthetic tube



Bench mounting

Column with flange

technical details:

- Connection thread: according to ISO-228/1
- Connection: polypropylene tube \varnothing 10 mm
- Hose nozzle: polypropylene (fixed)
- Headwork: polypropylene / ceramic (90°-turn)
- Material: Brass with internal polypropylene tube

Article	Description	Connection	Pin
10-11250.3	Standout = 150 mm , height = 300 mm	3/8"	no
10-11251.0	Standout = 190 mm , height = 350 mm, constant circulation	PP \varnothing 32	no
10-11251.0SP	Standout = 190 mm , height = 350 mm, constant circulation	2 x PP \varnothing 10	no



Wall mounting

Wall mounted tap without flange

technical details:

- Connection thread: according to ISO-228/1
- Connection: 1 x polypropylene tube, \varnothing 10 mm with threaded connection G=3/8", tube length 380 mm
- Hose nozzle: polypropylene (fixed)
- Headwork: polypropylene / ceramic (90°-turn)
- Material: Brass with internal polypropylene tube

Article	Description	Connection	Pin
10-11012.1PP	Standout = 100 mm	G3/8", 11mm	no



Wall mounting

Finish: epoxy powder coating

Colour: lightgrey (RAL-7035)

Handle: synthetic, darkgrey (approx. RAL-7012)

Suitable for most technical gassed like vacuum, compressed air, steam and nitrogen

DG version suitable for oxygen

Wall mounting tap, single tap

Single gas tap

technical details:

- Material: brass
- Suitable up to 5 bar (up to 10 bar available as an option)
- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: needle valve

medium indication according to your specification



Article	Description	Connection	Pin
10-13000.1	Standout = 115 mm, without flange	G=3/8", 11mm	no
10-13000.1DG	Standout = 115 mm, degreased headwork, without flange	G=3/8", 11mm	no
10-13050.2	Standout = 120 mm, with flange	G=1/2", 58mm	no
10-13050.2DG	Standout = 120 mm, degreased headwork, with flange	G=1/2", 58mm	no

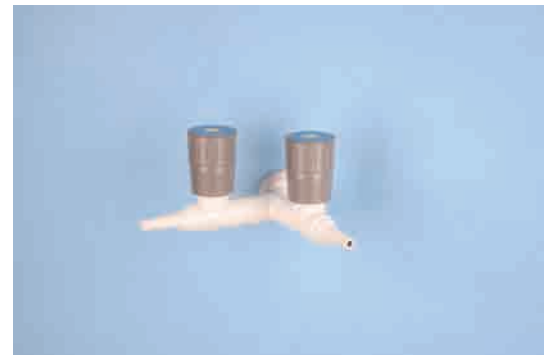
Wall mounting tap, 2-way tap

Gas tap with flange

technical details:

- Suitable up to 5 bar (up to 10 bar available as an option)
- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: needle valve

medium indication according to your specification



Article	Description	Connection	Pin
10-13060.2	Standout = 125 mm	G=1/2", 58mm	no
10-13060.2DG	Standout = 125 mm , degreased headwork	G=1/2", 58mm	no



Bench mounting



Column tap, single tap

Gas tap with flange

technical details:

- Suitable up to 5 bar (up to 10 bar available as an option)
- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: needle valve

medium indication according to your specification

Article	Description	Connection	Pin
10-13010.2L	Standout = 125 mm , height = 38 mm	G=1/2",80mm	no
10-13010.2LDG	Standout = 125 mm , height = 38 mm, degreased headwork	G=1/2",80mm	no
10-13010.2	Standout = 125 mm , height = 90 mm	G=1/2",80mm	no
10-13010.2DG	Standout = 125 mm , height = 90 mm, degreased headwork	G=1/2",80mm	no



Column tap, 2-way tap

Gas tap with flange

technical details:

- Suitable up to 5 bar (up to 10 bar available as an option)
- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: needle valve

medium indication according to your specification

Article	Description	Connection	Pin
10-13011.2L	Standout = 125 mm , height = 38 mm, (180°)	G=1/2",80mm	no
10-13011.2LDG	Standout = 125 mm , height = 38 mm, (180°), degreased headwork	G=1/2",80mm	no
10-13011.2	Standout = 125 mm , height = 90 mm, (180°)	G=1/2",80 mm	no
10-13011.2DG	Standout = 125 mm , height = 90 mm, (180°), degreased headwork	G=1/2",80 mm	no
10-13012.2L	Standout = 125 mm , height = 38 mm, (90°)	G=1/2",80 mm	no
10-13012.2LDG	Standout = 125 mm , height = 38 mm, (90°), degreased headwork	G=1/2",80 mm	no
10-13012.2	Standout = 125 mm , height = 90 mm, (90°)	G=1/2",80mm	no
10-13012.2DG	Standout = 125 mm , height = 90 mm, (90°), degreased headwork	G=1/2",80mm	no



Bench mounting

Column tap, 4-way tap

Gas tap with flange

technical details:

- Suitable up to 5 bar (up to 10 bar available as an option)
- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: needle valve

medium indication according to your specificationn



Article	Description	Connection	Pin
10-13013.2	Standout = 125 mm , height = 90 mm	G=1/2",80mm	no
10-13013.2DG	Standout = 125 mm , height = 90 mm, degreased headwork	G=1/2",80mm	no



Pendent mounting



Tap, single tap

Gas tap with flange

technical details:

- Suitable up to 5 bar (up to 10 bar available as an option)
- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: needle valve

other medium indication on request

Article	Description	Connection	Pin
10-13050.2	Height = 120 mm	G=1/2",58mm	no
10-13050.2DG	Height = 120 mm, degreased headwork	G=1/2",58mm	no



Tap, 2-way tap

Gas tap with flange

technical details:

- Suitable up to 5 bar (up to 10 bar available as an option)
- Connection thread: according to ISO-228/1
- Hose nozzle: fixed
- Headwork: needle valve

other medium indication on request

Article	Description	Connection	Pin
10-13064.2	Height = 150 mm , distance between the nozzles 100 mm	G=1/2",58mm	no
10-13064.2DG	Height = 150 mm , distance between the nozzles 100 mm, degreased headwork	G=1/2",58mm	no



Remote control taps

Water

Remote control with fixed flange

technical details:

- Medium indication: WNC and/or WHC
- Headwork: ceramic (90°-turn)



Article	Description	Connection	Pin
10-11310.0	Remote control for water	M30,30mm	no
10-11300MIX	Remote control, mixing valve	G=3/8",int.	no
10-16315.0	Remote control for water (adjustable distance), "vari-fit", ball valve	G=2x1/2",int.	no

Flammable gases

Remote control for flammable gas with fixed flange

technical details:

- Medium indication: G (natural gas)
- Connection: 2 x copper tube ø10 mm
- Headwork: ceramic, 'push-turn'

other medium indication on request



Article	Description	Connection	Pin
10-12310.0	Remote control for flammable gas	M30,30mm	no

Special waters

Demi-water tap with fixed flange

technical details:

- Medium indication: WDC
- Headwork: polypropylene / ceramic (90°-turn)



Article	Description	Connection	Pin
10-11310.0NK	Remote control, nickel plated	M30,30mm,tube ø10 mm	no
10-11310.0PP	Remote control, polypropylene	M38,30mm,G1/4",int.	no



FAR LABORATORY TAPS

remote control taps and outlets

Remote control taps



Non-flammable gases

Remote control for non-flammable gas with fixed flange

technical details:

- Suitable up to 5 bar (up to 10 bar available as an option)
- Connection: 2 x copper tube \varnothing 10 mm
- Headwork: needle valve

medium indication according to your specification

Article	Description	Connection	Pin
10-13310.0	Remote control for non-flammable gases	M30,30mm	no
10-13310.0DG	Remote control for non-flammable gases, degreased	M30,30mm	no



Outlets

Water

Outlet water with removable flange

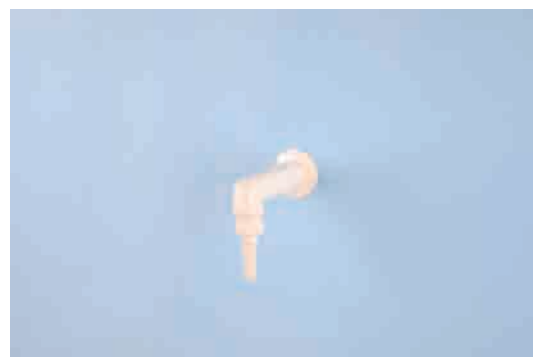
technical details:

- Material: brass
- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)

flange is available in different colours for medium indication

Available as option:

coloured flange: see page 40



Article	Description	Connection	Pin
10-11321.2V10	Standout = 100 mm	G=1/2", 58mm	no
10-11321.2V15	Standout = 150 mm	G=1/2", 58mm	no
10-11322.2	Standout = 150 mm , swivel gooseneck spout	G=1/2", 58mm	no
10-11326.2	Standout = 150 mm , fixed gooseneck spout, bench mounted	G=1/2", 100mm	no

Gases

Outlet gas with removable flange

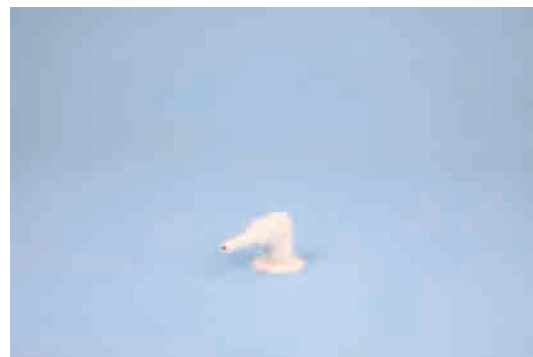
technical details:

- Material: brass
- Connection thread: according to ISO-228/1
- Hose nozzle: fixed

flange is available in different colours for medium indication

Available as option:

coloured flange: see page 40



Article	Description	Connection	Pin
10-13324.2	Outlet gas 45°	G=1/2", 58mm	no
10-13324.2ZF	Outlet gas 45° without flange	G=1/2", 58mm	
10-13325.2	Outlet gas 90°	G=1/2", 80mm	no
10-133252ZF	Outlet gas 90° without flange	G=1/2", 80mm	no



Outlets



Special waters, nickel plated

Outlet with removable flange

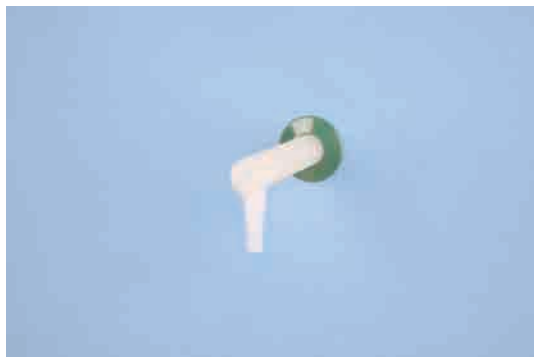
technical details:

- Material: brass with internal nickel plating
- Connection thread: according to ISO-228/1
- Hose nozzle: 1/2" (removable)

flange is available in different colours for medium indication

*Available as option:
coloured flange: see page 40*

Article	Description	Connection	Pin
10-11321.2V10NK	Standout = 100 mm	G=1/2", 58mm	no
10-11321.2V15NK	Standout = 150 mm	G=1/2", 58mm	no
10-11322.2NK	Standout = 150 mm , swivel gooseneck spout	G=1/2", 58mm	no
10-11326.2NK	Standout = 150 mm , fixed gooseneck spout, bench mounted	g=1/2", 100mm	no



Special waters, polypropylene

Outlet with removable flange (green)

technical details:

- Material: polypropylene
- Connection thread: according to ISO-228/1
- Hose nozzle: polypropylene (fixed)

Article	Description	Connection	
10-11321.1PP10	Standout = 100 mm	G=3/8", 50mm	
10-11321.1PP15	Standout = 150 mm	G=3/8", 50mm	



Infrared operation for water taps

Tap mounting

Infrared sensor spout for water fittings

technical details:

- Low-battery indication
- Installation manual
- 4 x AAA batteries
- Easy to install on water spout

for safe usage, consider to install a thermostatic valve



Article	Description	Connection	
69-2003C	Tap mounting	G=1/2 or M22	



Thermostatic Mixing



Mixing valve

Compact thermostatic mixing valve

technical details:

- Temperature range: 30-70°
- Capacity: 25 l/min
- Adjustable setting
- Built-in non-return valve in hot and cold water supply
- Anti-lime protection

protection against scalding; hot supply shuts-off automatically when cold supply is lost

Article	Description	Connection	
60-TACO-TMV15S	Mixing valve	15mm compr.fitting	



Column for water taps

Single column with flange

technical details:

- Material: brass
- Outlet connection: G=3/4"



Article	Description	Connection	Pin
10-11100.3S	Height 300 mm, centre to centre distance 150 mm	2 x ø8 mm	no

Pair of columns with flange

technical details:

- Material: brass
- Outlet connection: G=3/4"



Article	Description	Connection	Pin
10-11103.2S	Height = 300 mm	G=1/2", 100mm	no
10-11103.15S	Height = 150 mm	G=1/2", 100mm	no



Headworks



Headworks for FAR taps

Article	Description	Connection	Pin
10-20100.0	EPDM headwork water		
10-20110.0	Ceramic headwork water		
10-20100.0NK	EPDM headwork demineralised water		
10-20110.0PP	Polypropylene/ceramic headwork demineralised water		
10-20120.0	"Push-turn" ceramic headwork, flammable gas		
10-20130.0	Needle valve PTFE , technical gases		
10-20130.0DG	Needle valve PTFE , oxygen etc.		



Handles

Handle for FAR tap

technical details:

- Material: plastic (ABS)
- Colour: dark grey (RAL7012)
- Colour coding according to EN-13792:2002

inserts etc. need to be ordered separately



Article	Description	Connection	
10-20140.A	Handwheel grey		
10-20140.B	External ring with "on-off" indication		
10-20140.C	Medium ring		
10-20140.D	Button with mediumcode		
10-20140.E	Screw for handwheel		



Flanges



Flange, coated brass

Flange standard colour grey (RAL 7035)

technical details:

- Material: brass
- Finish: epoxy powdercoating

Flange can be supplied in all standard EN-13792:2002 colours.

- GR = green**
- G = grey**
- GE = yellow**
- R = red**
- B = blue**
- W = white**

Article	Description	Connection	
10-20201.2	Outer diameter Ø45 mm	int.G=1/2"	
10-20202.2	Outer diameter Ø50 mm	int.G=1/2"	
10-20203.2	Outer diameter Ø60 mm	int.G=1/2"	
10-20203.3	Outer diameter Ø60 mm	int.G=3/4"	



Flange, moplen

Flange standard colour grey (RAL 7035)

technical details:

- Material: Moplen (plastic)

Flange can be supplied in all standard EN-13792:2002 colours.

- GR = green**
- G = grey**
- GE = yellow**
- R = red**
- B = blue**
- W = white**

Article	Description	Connection	
10-20250.2	Outer diameter Ø58 mm ,internal Ø21,5 mm (for 1/2")		



Flanges

Flange, moplen, with medium indication

Flange standard colour grey (RAL 7035)

technical details:

- Material: Moplen (plastic)
- Coding according to EN-13792:2002

Flanges are available for most commonly used types of water and gas



Article	Description	Connection	
10-20270.2	Outer diameter Ø58 mm ,internal Ø22 mm (for 1/2")		



Water spouts



Gooseneck spout

technical details:

- Suitable for all FAR watertaps with swivel spout
- Hose nozzle: M22 (removable)

Article	Description	Connection
10-20300.150	Standout = 150 mm , height = 240 mm	



U-spout

technical details:

- Suitable for all FAR watertaps with swivel spout
- Hose nozzle: M22 (removable)

Article	Description	Connection
10-20310.200	Standout = 200 mm , height = 250 mm	
10-20310.230	Standout = 230 mm , height = 250 mm	
10-20310.250	Standout = 250 mm , height = 250 mm	
10-20310.300	Standout = 300 mm , height = 250 mm	
10-20310.350	Standout = 350 mm , height = 250 mm	
10-20330.150	Standout = 150 mm , height = 70 mm	
10-20330.200	Standout = 200 mm , height = 70 mm	
10-20330.250	Standout = 250 mm , height = 70 mm	
10-20330.300	Standout = 300 mm , height = 70 mm	
10-20330.350	Standout = 350 mm , height = 70 mm	
10-20330.400	Standout = 400 mm , height = 70 mm	
10-20330.450	Standout = 450 mm , height = 70 mm	



Water spouts

J-spout

technical details:

- Suitable for all FAR watertaps with swivel spout
- Hose nozzle: M22 (removable)



Article	Description	Connection
10-20320.200	Standout = 200 mm , height = 210 mm	

S-spout

technical details:

- Suitable for all FAR watertaps with swivel spout
- Hose nozzle: M22 (removable)



Article	Description	Connection
10-20340.200	Standout = 200 mm , height = 70 mm	
10-20340.250	Standout = 250 mm , height = 70 mm	
10-20340.300	Standout = 300 mm , height = 70 mm	
10-20340.350	Standout = 350 mm , height = 70 mm	

Swanneck spout

technical details:

- Suitable for all FAR watertaps with swivel spout.
- Hose nozzle: M22 (removable)



Article	Description	Connection
10-20350.150	Standout = 150 mm , height = 220 mm	
10-20350.180	Standout = 180 mm , height = 220 mm	



Nozzles/Couplings



Nozzle

technical details:

- Material: brass
- Finish: epoxy powdercoating
- Colour: light grey (RAL7035)

Article	Description	Connection	Pin
10-20191.0	Nozzle for water	G1/2" int.	
10-20192.0	Nozzle for gas	G=3/8" ext.	
10-20195.0	Nozzle for water	M22 int.	



Quick release coupling

technical details:

- Material: brass, nickel plated
- Connection: male thread

Quick release coupling will be mounted on the tap at the factory

Article	Description	Connection	Pin
10-20180.0	Quick release coupling for water	G=3/8"	
10-20180.0G	Quick release coupling for gas , self-closing	G=3/8"	
10-20190.0	Nozzle for quick release coupling, gas or water		



Vacuum breaker

Vacuum breaker for FAR water taps

technical details:

- Material: brass
- Finish: epoxy powdercoating
- Colour: light grey (RAL7035)
- Installation between the spout and the nozzle

Article	Description	Connection	Pin
10-20160.B	Vacuum breaker	G=1/2" int./ext.	



Nozzles/Couplings

Aerator

Aerator for FAR water taps

technical details:

- Material: brass
- Finish: epoxy powdercoating
- Colour: light grey (RAL7035)

for use on watertaps



Article	Description	Connection	
10-20194.0	Aerator for FAR watertaps	G=1/2"	
10-20193.0	Aerator for FAR watertaps	M22 int.	



Frontal Montage System



Coupling

technical details:

- Material: brass
- Connection: \varnothing 12 mm

please indicate the wall thickness

Article	Description	Connection	
10-20003.1	Coupling 90°	G=3/8"	
10-20002.1	Straight coupling	G=3/8"	



Coupling 90° with tube

technical details:

- Material: brass
- Connection: copper tube \varnothing 12 mm, length 500 mm

please indicate the wall thickness

Article	Description	Connection	
10-20011.1	Coupling 90° with tube	G=3/8"	



Accessories

Nuts

technical details:

- Material: brass



Article	Description	Connection	Pin
10-20410.0	Brass nut 30/F19 for mounting panel valves		
10-20410.2	Brass nut 1/2"		
10-20410.3	Brass nut 3/4"		

Washers

technical details:

- Material: galvanised steel



Article	Description	Connection	Pin
10-20450.2	Metal washer 1/2"		
10-20450.3	Metal washer 3/4"		
10-20460.2	Metal washer toothed 1/2"		
10-20460.3	Metal washer toothed 3/4"		

Threaded fittings

technical details:

- Material: brass

- length 100 mm



Article	Description	Connection	Pin
10-20480.2	Threaded fitting G=1/2"		



Accessories



Extensions

Extension piece for FAR taps

technical details:

- Connection: 3/8" ext. x 3/8" int.
- Material: brass
- Finish: epoxy powdercoating

Article	Description		
10-20490.50	Extension 50 mm		
10-20490.75	Extension 75 mm		
10-20490.100	Extension 100 mm		



Spectrolab-Plus fittings are suitable for pure gases up to a purity of class 6.0 (99,9999%)
 Outlet pressure 10 bar, optional: 1½, 5 or 50 bar
 In brass suitable for non-corrosive gases up to a purity of class 6.0, optional Stainless Steel
 Diaphragm: Hastelloy C276
 Leak rate 10-8 bar cm³/sHe

Wall mounting valve

Pressure control valve inclusive coupling for wall thickness up to 8 mm

Technical details:

- Material: brass (stainless steel available as option)
- Inlet connection: 1/4"NPT
- Outlet connection: 1/4"NPT
- Outlet connection flow-control-valve: 1/4"NPT

longer inlet connection available



Article	Description	Flow-control-valve	
12-EMAW-10A	Tapping point, wall mounting, outlet pressure 10 bar	no	
12-EMAW-10V	Tapping point, wall mounting, outlet pressure 10 bar	yes	

Wall mounting valve

Pressure control valve for surface-mounted pipework

Technical details:

- Material: brass (stainless steel available as option)
- Inlet connection: 1/4"NPT
- Outlet connection: 1/4"NPT
- Outlet connection flow-control-valve: 1/4"NPT



Article	Description	Flow-control-valve	
12-EMES-10A	Tapping point, surface mounting, outlet pressure 10 bar	no	
12-EMES-10V	Tapping point, surface mounting, outlet pressure 10 bar	yes	



SPECTROLABPLUS PURE GASES fittings



Bench mounting

Pressure control valve bench mounting

Technical details:

- Material: brass (stainless steel available as option)
- Inlet connection: 1/4"NPT
- Outlet connection: 1/4"NPT
- Outlet connection flow-control-valve: 1/4"NPT

Article	Description	Flow-control-valve	
12-EMSC-10A	Tapping point, bench mounting, outlet pressure 10 bar	no	
12-EMSC-10V	Tapping point, bench mounting, outlet pressure 10 bar	yes	



Pendent mounting

Pressure control valve for pendent mounting

Technical details:

- Material: brass (stainless steel available as option)
- Inlet connection: 1/4"NPT
- Outlet connection: 1/4"NPT
- Outlet connection flow-control-valve: 1/4"NPT

Article	Description	Flow-control-valve	
12-EMDC-10A	Tapping point, pendent mounting, outlet pressure 10 bar	no	
12-EMDC-10V	Tapping point, pendent mounting, outlet pressure 10 bar	yes	



Panel mounting valve

Panel mounting valve

Technical details:

- Material: brass (stainless steel available as option)
- Inlet connection: 1/4"NPT
- Outlet connection: 1/4"NPT
- Outlet connection flow-control-valve: 1/4"NPT

Article	Description	Flow-control-valve	
12-EMEP-10A	Panel mounting valve , outlet pressure 10 bar	no	
12-EMEP-10V	Panel mounting valve , outlet pressure 10 bar	yes	



Outlets

Outlet, inclusive coupling, for a wall thickness up to 8 mm

Technical details:

- Material: brass (stainless steel available as option)
- Inlet connection: 1/4"NPT
- Outlet connection: 1/4"NPT

longer inlet connection available



Article	Description		
12-EMAM-D	Outlet wall mounting straight		
12-EMAM-E	Outlet wall mounting 45°		

Flow-control valve

Flow-control-valve for wall-/or panel-mounting, inclusive coupling, for a wall thickness up to 8 mm

Technical details:

- Material: brass (stainless steel available as option)
- Inlet connection: 1/4"NPT
- Outlet connection: 1/4"NPT

longer inlet connection available



Article	Description		
12-EMEP-G	Straight flow-control-valve, wall mounting		
12-EMEP-E	Angle-type flow-control-valve, wall mounting		
12-EMAW-G	Straight flow-control valve, panel mounting		
12-EMAW-E	Angle-type flow-control-valve, panel mounting		



Wall mounting



2-hole mixer tap

Technical details:

- Material: chrome plated brass
- Inclusive non-return valve
- Inlet connection: 1/2", (2 pcs. S-connections included)
- Centre-to-centre distance 150 ±25 mm
- Height 850 mm ±50 mm

Article	Description	Connection	
14-6637	Prewash shower	G=1/2"	
14-6638	Prewash shower with Swivel S-spout and diverter	G=1/2"	



Bench mounting

1-hole mixer tap

Technical details:

- Material: chrome plated brass
- Inclusive non-return valve
- Taphole diameter $\varnothing 30$ mm
- Easy to install with flexible hoses 3/8" connections
- Height 1150 mm ± 50 mm



Article	Description	Connection	
14-6634	Prewash shower	G=3/4"	
14-6634.02	Prewash shower with swivel tap	G=3/4"	

2-hole pillar mixer tap

Technical details:

- Material: chrome plated brass
- Inclusive non-return valve
- Centre-to-centre distance 150 mm
- Height 1250 mm ± 50 mm



Article	Description	Connection	
14-6636	Prewash shower with Swivel S-spout and diverter	G=1/2"	
14-6639	Prewash shower with swivel tap	G=1/2"	



Bench mounting



1-hole mixer tap with thermostat

Technical details:

- Thermostat with temperature limitation
- Easy to install with flexible hoses 3/8" connections
- Material: chrome plated brass
- Taphole diametre $\varnothing 33$ mm
- Height 850 mm ± 50 mm

Article	Description	Connection	
14-6451	Prewash shower with thermostat	G=3/8"	



Wall mounting

2-hole mixer tap

Technical details:

- Material: chrome plated brass
- Inclusive non-return valve
- Inlet connection: 1/2", (2 pcs. S-connections included)
- Centre-to-centre distance 150mm \pm 25 mm
- Height 950 mm \pm 50 mm



Article	Description	Connection	
14-6537	Prewash shower	G=1/2"	
14-6538	Prewash shower with swivel S-spout and diverter	G=1/2"	



Bench mounting



1-hole mixer tap

Technical details:

- Material: chrome plated brass
- Inclusive non-return valve
- Taphole diametre \varnothing 30 mm
- Height 1250 mm \pm 50 mm
- Easy to install with flexible hoses 3/8" connection

Article	Description	Connection	
14-6534	Prewash shower	G=3/4"	
14-6534.02	Prewash shower with swivel tap	G=3/4"	



2-hole pillar mixer tap

Technical details:

- Material: chrome plated brass
- Inclusive non-return valve
- Centre-to-centre distance 150 mm
- Height 1250 mm \pm 50 mm

Article	Description	Connection	
14-6536	Prewash shower with swivel S-spout and diverter	G=1/2"	
14-6539	Prewash shower with swivel tap	G=1/2"	



Bench mounting

1-hole mixer tap with thermostat

Technical details:

- Thermostat with temperature limitation
- Easy to install with flexible hoses 3/8" connections
- Material: chrome plated brass
- Tap hole diameter $\varnothing 33$ mm
- Height ± 980 mm



Article	Description	Connection	
14-6452	Prewash shower with thermostat	G=3/8"	



Bench mounting



1-hole mixertap space saving

Technical details:

- Inclusive non-return valve
- Easy to operate
- Material: chrome plated brass
- Easy to install with flexible hoses 3/8" connections
- Taphole diametre $\varnothing 30$ mm
- Height : 420 mm
- Standout: 220 mm

Article	Description	Connection	
14-6450	Semi pro - pre rinse spray unit	G=3/8"	



Spray gun set

Spray gun set for demineralised water

Technical details:

- Inclusive non-return valve
- Comprite case with stainless steel insert
- Push-button operation
- Turnable hose connection
- Wall bracket with emergency stop
- High pressure hose 1400 mm



Article	Description	Connection	
14-2435.20	Spray gun set voor demineralised water	G=1/2"	

Pre rinse spray unit for demineralised water

Technical details:

- Composite spray gun with stainless steel valve
- Turnable hose connection
- Stainless steel valve and riser
- Hose with stainless steel fittings
- Height: ±1050 mm



Article	Description	Connection	
14-6634	Prewash shower for demineralised water	G=1/2"	





Technical details FAR laboratory taps

Production

The production process is carried out according to the latest technology by means of modern advanced CNC-machineries. The brass used is completely free of ferrous substances (OT85, P-Cu-Zn40-Pb2, certified), partly drawn bars, partly hot pressed. The alloy used is free of cadmium (40% silver-alloy), which is also suitable for the food industry. Before the painting, the taps are cleaned ultra-sonically, externally as well as internally. This way of cleaning is reliable and friendly for the environment.

The assembly of the taps is carried out with the highest possible accuracy. The pre-assembly is done with loc-tite® or welding. In the final stage, the wrenching is carried out with certified tools to assure maximal tightness.

Coating

The taps are supplied with an epoxy-powder-coating, which creates a clean and smooth surface, able to withstand aggressive chemicals.

All RAL-colours are possible, standard colour is light grey (RAL 7035).

Handwheels

All taps are supplied with coloured coding for identification of the media, according to EN 13792:2002

Norms

All taps are tested through the use of computerised testing facilities, providing test results for every single tap. To further guarantee the quality of the taps, FAR is also using an internal calibration system for the measuring instruments.

FAR has achieved ISO 9001 TÜV certification and is producing it's taps according to:

- *DIN 12918; laboratory fittings for water and gas
- *EN 13792:2002 with regard to colour coding for laboratory taps
- *DIN 12 898 with regard to dimensions and shape of the nozzles
- *UNI-ISO 228/1 with regard to the threaded connections

FAR laboratory taps are certified according to:

- *ISO-9001:2000
- Design and manufacture of Laboratory valves and accessories
- *DIN-DVGW- NG-4385B00297 / NG-4385B00296
- Gas controls with safety release and ceramic head
- *DIN-DVGW- NG-4385B00295 / NG-4385B00294
- Gas controls with safety release and ball valve
- *CSA-c-us 1210572 class 3371-13 / 3371-93
- Manually Operated Gas Hose End Valves For Laboratory Use
- *CSA-c-us 1210576 class 6811-01 / 6811-81
- Water fittings and accessories
- *DG-3847 / DIN 12918-2:2002 / Mod. 5775 / MBST 20F
- Laboratory gas fittings

Specification by media

Water

Available headworks for water are quarter-turn ceramic headworks (standard) and EPDM headworks (NBR75 90SH). As a standard, the taps are supplied with 1/2" male inlet connection threads, and male outlet threads with removable nozzles, 1/2" or M22 connection. The sealing is with EPDM. Vacuum breakers are offered as an option. Vacuum breakers prevent that polluted water is sucked into the supply line. Maximum working pressure for the water taps is 10 Bar.



Special water

Demineralised water should not come into contact with Brass.

Three solutions are offered for demineralised water:

**Nickel plated taps*

The standard brass taps can be provided with an internal nickel plating (thickness 17 Microns), which makes them suitable for demineralised water.

The advantage of this option is that a wide range of shapes is available. To order, simply add "NK" to the standard article number.

These taps are supplied with a synthetic (PES) headwork.

**Brass taps with internal tube*

A few models are available with an internal tube (PP/ PVDF). The water only comes in contact with EPDM and PP / PVDF, not with the brass. Taps for ultra-pure water are also available (constant circulation). Synthetic headworks (PES) are used.

**Stainless steel taps*

A full range of stainless steel (AISI 316) taps is available. These taps are resistant to most chemicals and suitable for several applications. All connections are TIG-welded, there are no screwed connections. The seals are in PTFE, the o-rings in EPDM. The exterior of the taps is brushed and polished which gives an aesthetically pleasing appearance. More information about this range is available on request.

Burning gases

Taps for natural gas are supplied with a push-turn ceramic headwork. Apart from the gas taps with ceramic headworks, a range of taps with a ball-valve is available as well. Both types are approved by DIN/DVGW.

Maximum working pressure for gas taps with ceramic headwork is 0.2 bar; for ball-valves 10 bar. The seals are made of nitrile rubber (NBR).

Other gases

For other gasses, taps with needle valves are used. The needle valve makes fine-control of the flow possible.

The sealings are made of EPDM / PTFE. For steam, a sealing of Viton is used.

Taps for Oxygen and Acetylene are supplied with a special grease, to avoid explosion. They have to be ordered separately, by adding "DG" to the article number of the standard needle valve.

Maximum working pressure for the needle valves is 5 Bar (taps suitable up to 10 Bar are available as an option).

Assembly

Installation, use and maintenance

Before connecting the fitting to the (water)line, make sure that the line is completely clean, to avoid damage to the internal parts of the tap.

In cases where the concentration of lime or other particles in the water is high, it is recommended to use a filter at the start of the line. Especially valves with ceramic headworks may start leaking when lime or other particles is coming between the ceramic discs.

During installation, the fittings must be handled with care, to avoid damage on the coating.

FAR laboratory fittings should only be used for the medium as indicated by the colour coding on the handle, according to EN 13792. Special attention is required for the use of taps for Oxygen. They need to be treated with special grease, to avoid the risk of explosion.

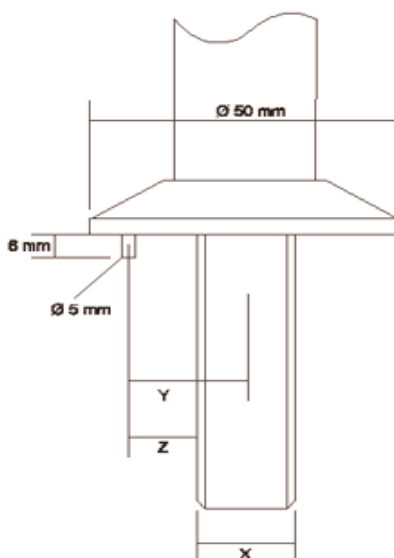
If the installation is carried out correctly, FAR fittings do not need particular maintenance.

If spare parts are worn out after some years of use, they can be ordered separately.

Flange and pin

FAR taps can be supplied with a heavy flange and a pin (6mm). Taps with a pin are indicated with a "P" at the end of the article code. The pin prevents unwanted turning of the tap once it is fitted, which makes it vandal-resistant.

The position of the pin in the flange is indicated below. The pin is always on the front side of the tap.



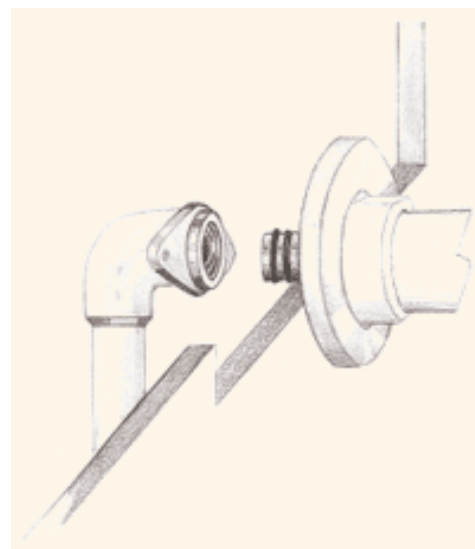
	X	Y	Z
Water	G 1/2" (ø21mm)	16,5mm	6mm
Gas	G 3/8" (ø17mm)	16,5mm	8mm

Frontal Assembly System)

This patented system is developed by FAR and can be used for both water taps and gas taps. After fixing of the special coupling on the back side of the panel, the tap itself can be fitted any time during installation. The advantages of this system are: reduction in the costs of installation, flexibility and the possibility of fitting the taps at the end of the project, which prevents both internal and external damage to the taps during installation.

The frontal montage system is fully tested at a specialised laboratory. The taps for natural gas are equipped with additional protection. This system is approved by DIN/DVGW.

An extensive range of special couplings is available, bends as well as T-pieces, for water and for gas. To order the taps for this system, it is important to know the exact thickness of the panel, because the length of the connection part will be made in accordance with this. To mount the tap, first screw the tap into the coupling and put it in the right position. After that, a last turn of the flange will secure the tap properly.



Warranty

The warranty-period on demonstrable production errors is two years



Spectrolab®-plus fittings

Spectrolab®-plus products are suitable for pure gasses up to a purity of class 6.0 (99,9999%).

The fittings incorporate the functions shut-off, pressure regulation and pressure indication in one compact, ergonomic unit. All components are plastic-coated resistant to acid and alkaline solutions

Spectrolab -plus systems incorporate 3 functions in one unit: shut-off, pressure regulation and pressure indication. A flow control valve can be added easily.

The pressure regulator is diaphragm sensed for outlet pressures up to 10 bar and piston sensed for higher outlet pressure values.

The pressure gauge is safely integrated into the adjusting handwheel to create an extremely compact device.

The diaphragm-type shut-off valve engages in the open and the closed position respectively and has an additional indicator on the adjusting knob.

All gas-wetted components have undergone the special Spectroclean cleaning process and have been thoroughly baked out. All equipment has been 100% Helium-leak-tested using a mass-spectrometer.

Material

Body material	Brass / optional Stainless Steel (316)
Diaphragm	Stainless Steel (Hastelloy C276)
Other gas-wetted surfaces	Brass / optional Stainless Steel (316)
Valve stem	Stainless Steel (316)
Valve seat	PTFE
Body coating	Polypropylene GF30 (light grey / dark grey)

Leak rate (to atmosphere) 10⁻⁸ bar cm³/s He

Inlet pressure PV(PH up to 10 bar): 40 bar max.

(PH > 10 bar): 60 bar max.

Max. outlet pressure 1,5 / 5 / 10 / 50 bar

Flow rates Flow charts available on request.

Assembly

The wall-mounting kit and the panel mounting kit for Spectrolab -plus systems is used for installations into panels between 2 and 8 mm thick. Mounting kits for panels with a thickness between 9 and 20 mm are available as an option.

The column-mounting kit for Spectrolab -plus systems is used for benches up to approx. 90 mm thickness.



Echtermann prewash spray units

Echtermann is one of the leading manufacturers of special fittings for industrial kitchens. Steendam offers the 'TopClean' and 'Euroclean' pre-wash units from Echtermann.

The taps are made of high-grade brass, with polished and chrome plated surfaces. The taps are equipped with ceramic headworks which do not require regular maintenance.

All mixers are fitted with headworks inclusive non-return function. This prevents from circulation between hot and cold water and back-flow of waste water into the fresh-water pipes.

EuroClean





































































For years now, this sink shower with sturdy supportive spring has proven its qualities. The spray head is pulled towards the place of work. Water is switched on by pressing the lever on the hand shower.

TopClean

This is the latest innovative sink shower with automatic pull-down function. Water is switched on automatically when pulling the spray head towards the place of work. A gas pressure spring returns the spray head back to its home position after use. The spray head is freely rotating.

Kleurcodering FAR Laboratoriumkranen volgens EN 13792:2002

© Steendam lab furnishing supplies (2002)

						
Koelwater / Bevoeiingswater (WCS)	Drinkwater, heet (WPH)	Drinkwater, koud (WPC)	Bronwater (WSP)	Bedrijfswater, warm (WNH)	Bedrijfswater, koud (WNC)	Stoom (WST)
						
Condenswater (WCO)	Ultra puur water, warm (WCH)	Ultra-puur water, koud (WCC)	Koelwater retour (WCR)	Koelwater toevoer (WCF)	Oppervlaktewater, warm (WSH)	Oppervlaktewater, koud (WSC)
						
Demi-water, warm (WDH)	Demi-water, koud (WDC)	Rivierwater, warm (WRH)	Rivierwater, koud (WRC)	Gedestilleerd water (WDI)	Aardgas (G)	Propana/Butaan (LPG)
						
Methaan (CH ₄)	Propana (C ₃ H ₈)	Butaan (C ₄ H ₁₀)	Etheen (C ₂ H ₄)	Propeen (C ₃ H ₆)	Buteen (C ₄ H ₈)	Acetyleen (C ₂ H ₂)
						
Argon/Methaan (Ar/CH ₄)	Waterstof/Stikstof (H ₂ /N ₂)	Waterstof (H ₂)	Silaan (SiH ₄)	Waterstof/Helium (H ₂ /He)	Deuterium (D ₂)	Stikstof (N ₂)
						
Distikstofoxide (N ₂ O)	Lucht, synthetisch 80/20 (SA)	Perslucht (CA)	Zuurstof (O ₂)	Kooldioxide (CO ₂)	Lucht, circulerend (RA)	Ademlucht (BA)
						
Carbogeen (CO ₂ +O ₂) (CB)	Krypton (Kr)	Xenon (Xe)	Neon (Ne)	Argon (Ar)	Helium (He)	Ammoniak (NH ₃)
						
Stikstofdioxide (NO ₂)	Stikstofmonoxide (NO)	Zwavelwaterstof (H ₂ S)	Arsine (AsH ₃)	Fosfine (PH ₃)	Chloorwaterstof (HCl)	Zwavel dioxide (SO ₂)
						
Koolstofmonoxide (CO)	Koolstofoxychloride (COCl ₂)	Chloor (Cl ₂)	Laagvacuüm (V) 1000 mbar - 1 mbar	Fijnvacuüm (VF) 1 mbar - 10 ⁻³ mbar	Hoogvacuüm (VH) 10 ⁻³ mbar - 10 ⁻⁷ mbar	Formaldehyde (CH ₂ O)
						
Propanol (C ₃ H ₈ O)	Methanol (CH ₄ O)	Aceton (C ₃ H ₆ O)	Trichlooretheen (C ₂ HCl ₃)	Perchloorzuur (HClO ₄)		



Freestanding

Pipes en fittings: galvanized steel, protected with Bradtect yellow coating
 Complies with EN 15154 and ANSI Z 358.1-2004

Ball valve: chrome-plated brass stay-open ball valve 1" BSP

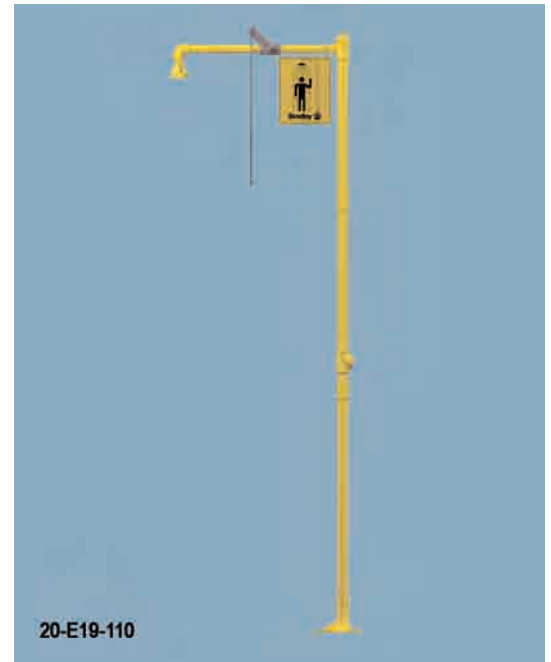
Inclusive:

- *International safety sign
- *Installation instructions (English)
- *Inspectiontag

Hand operated

technical details:

- Water flow: 80 l/min
- Inlet connection: 1 1/4" BSP
- 1" Chrome plated brass stay-open ball valve with stainless steel pull rod



Article	Description	Connection	
20-E19-110	Freestanding body shower with plastic showerhead	1 1/4" BSP	



Wall- or vertical supply

Pipe en fittings: galvanized steel, protected with Bractect yellow coating
Complies with EN 15154 and ANSI Z 358.1-2004

Inclusive:

- *International safety sign
- *Installation instructions (English)
- *Inspectiontag

Wall mounted

technical details:

- Water flow: 80 l/min
- Inlet connection: 1" BSP
- 1" Chrome plated brass stay-open ball valve with stainless steel pull rod



Article	Description	Connection	
20-E19-120	Body shower horizontal supply with plastic showerhead	1"BSP	
20-E19-120A	Body shower horizontal supply with stainless steel showerhead	1"BSP	
20-E19-120P	Body shower horizontal supply with hand-held shower and plastic showerhead	1"BSP	
20-E19-120SS	Body shower horizontal supply all stainless steel	1"BSP	

Vertical supply

technical details:

- Water flow: 80 l/min
- Inlet connection: 1" BSP
- 1" Chrome plated brass stay-open ball valve with stainless steel pull rod



Article	Description	Connection	
20-E19-130	Body shower vertical supply with plastic showerhead	1"BSP	
20-E19-130A	Body shower vertical supply with stainless steel showerhead	1"BSP	



Freestanding

Complies with EN 15154 and ANSI Z 358.1-2004
Bodyshower and eyeshower operate independently

Floor flange

Inclusive:

- *International safety sign
- *Installation instructions (English)
- *Inspectiontag

Body-/eye showers

technical details:

- Water flow: 80 l/min
- Inlet connection: 1 1/4" BSP
- Body shower: 1" Chrome plated brass stay-open ball valve with stainless steel pull rod
- Eye shower: Chrome plated brass stay-open ball valve 1/2" with plastic push handle



Article	Description	Connection	
20-E19-310	Body shower with plastic showerhead and eye shower with ABS bowl	1 1/4" BSP	
20-E19-310DC	Body shower with plastic showerhead and eye shower with stainless steel bowl and stainless steel dustcover	1 1/4" BSP	
20-E19-310F	Body shower with stainless steel showerhead and eye shower with stainless steel bowl	1 1/4" BSP	
20-E19-310P	Body shower with plastic showerhead and eye shower with ABS bowl and hand-held shower	1 1/4" BSP	



Freestanding

Body-/face showers

technical details:

- Water flow: 80 l/min
- Inlet connection: 1 1/4" BSP
- Body shower: 1" Chrome plated brass stay-open ball valve with stainless steel pull rod
- Eye shower: Chrome plated brass stay-open ball valve 1/2" with plastic push handle



Article	Description	Connection	
20-E19-310AC	Bodyshower with plastic showerhead and eye-/faceshower hand or foot operated with stainless steel bowl	1 1/4" BSP	
20-E19-310K	Bodyshower with stainless steel showerhead and eye-/faceshower with face spray ring and stainless steel bowl	1 1/4" BSP	

Body-/eye showers corrosion resistant

technical details:

- Water flow: 80 l/min
- Body shower: 1" Stainless steel stay-open ball valve with stainless steel pull rod
- Eye shower: 1/2" stainless steel stay-open ball valve and push handle



Article	Description	Connection	
20-E19-310PVC	PVC shower, body shower with ABS showerhead and eyeshower with ABS bowl	2" BSP	
20-E19-310SS	Stainless steel shower, body shower with stainless steel showerhead and eye shower with stainless steel bowl, hand- or foot operated	1 1/4" BSP	



Cabinet-mounted

Complies with EN 15154 and ANSI Z 358.1-2004
Bodyshower and eyeshower operate independently

Inclusive:

- *International safety sign
- *Installation-instructions (English)
- *Inspectiontag

Concealed body-/eye shower

Barrier-free recessed drench shower and eyewash

technical details:

- Unit requires wall opening of 651 x 816 x 102 mm.
- Cabinet: Corrosion resistant stainless steel
- Stainless steel showerhead, to be flush-mounted into the ceiling
- Eyeshower: Chrome plated brass
- Water supply: 1/2"BSP for the eye shower, 1"BSP for the body shower
- Waste: 1 1/4" with P-trap

The piping between the showerhead and the ball-valve is not included



Article	Description	Connection	
20-E19-315FPBF	Concealed swing-activated eye shower and ceiling flush mounted body shower	1"BSP/ 1/2"BSP	



Wall mounted

Pipe en fittings: galvanized steel, protected with Bradtect yellow coating
Complies with EN 15154 and ANSI Z 358.1-2004
Chrome plated brass soft-flow sprayheads with dustcovers and flowcontrol

With bowl

technical details:

- Water supply: 1/2" BSP
- Waste: 1 1/4" BSP
- 1/2" chrome plated brass stay-open ball valve with plastic push handle

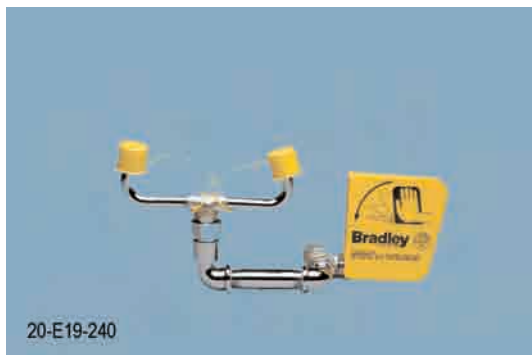


Article	Description	Connection	
20-E19-220	Eye shower wall mounted with ABS bowl and wall bracket	1/2" BSP	
20-E19-220B	Eye shower wall mounted with stainless steel bowl and wall bracket	1/2" BSP	
20-E19-220K	Eye shower wall mounted with stainless steel bowl, face spray ring and wall bracket	1/2" BSP	
20-E19-230	Eye shower with ABS bowl, without wall bracket	1/2" BSP	
20-E19-220DC	Eye shower with stainless steel bowl and dustcover, with wall bracket	1/2" BSP	
20-E19-230DC	Eye shower with stainless steel bowl and dustcover, without wall bracket	1/2" BSP	

Without bowl

technical details:

- Water supply: 1/2" BSP
- Pipes and fittings: Chrome plated brass
- 1/2" ball valve with plastic push handle



Article	Description	Connection	
20-E19-240	Eye shower without bowl, chrome plated	1/2" BSP	



Tap mounted

This eyeshower can be mounted under the outlet of a water fitting.

The water fitting will maintain its normal operation when the eye shower is not in use.

One step activation

The valve stays open after activation.

Pipe en fittings: chrome plated

Chrome plated brass soft-flow sprayheads with dustcovers and flowcontrol.

Inclusive:

*International safety sign

*Installation instructions (English)

*Inspectiontag

Without bowl

technical details:

- Inclusive following adapters:
- 1/2" female x M22 male
- 55/64" x M27
- 15/16" x M27
- 13/16" x M27



Article	Description	Connection	
20-E19-200B	Tap-mounted eye shower		



Bench mounted

Complies with EN 15154 and ANSI Z 358.1-2004

The valve stays open after activation

Pipe en fittings: chrome plated

Chrome plated brass soft-flow sprayheads with dustcovers and flowcontrol

Inclusive:

*International safety sign

*Installation instructions (English)

*Inspectiontag



20-E19-270B

Without bowl

Eyeshower for installation near a sink.

technical details:

- Water supply: 1/2" BSP
- 1/2" chrome plated brass stay-open ball valve with stainless steel push handle

Article	Description	Connection	
20-E19-270B	Bench mounted swivel eye shower, for installation on right-hand side of a sink.	1/2" BSP	
20-E19-270BL	Bench mounted swivel eye shower, for installation on left-hand side of a sink.	1/2" BSP	



Freestanding

Pipe en fittings: Galvanized steel column with waste outlet and floor flange, all protected with Bradtect yellow coating.
Complies with EN 15154 and ANSI Z 358.1-2004

Chrome plated brass soft-flow sprayheads with dustcovers and flowcontrol

Inclusive:

- *International safety sign
- *Installation instructions (English)
- *Inspectiontag

With bowl

technical details:

- Water supply: 1/2" BSP
- Waste: 1 1/4" BSP
- 1/2" chrome plated brass stay-open ball valve with plastic push handle



Article	Description	Connection	
20-E19-210	Freestanding eye shower with ABS bowl	1/2" BSP	
20-E19-210B	Freestanding eye shower with stainless steel bowl	1/2" BSP	
20-E19-210DC	Freestanding eye shower with stainless steel bowl and dustcover	1/2" BSP	



Cabinet mounted

Eye shower in stainless steel cabinet
Recessed installation. Space-saving and easy to clean
Supplied with a door to keep the eye shower clean
The waste water is collected into the cabinet's internal drain
Eye shower activates when stainless steel door is opened
Also suitable for disabled persons
Complies with EN15154 en ANSI-Z358.1-2004

With bowl

technical details:

- Unit requires wall opening of 417 x 857 x 102 mm
- Cabinet is corrosion resistant stainless steel
- Eye shower chrome plated brass
- Connection 1/2" BSP
- Supplied inclusive international safety sign
- Inclusive inspection tag
- Eyeshower with integrated flow-control valve



Article	Description	Connection	
20-E19-282	Cabinet concealed swing down eyewash, with stainless steel bowl	1/2" BSP	
20-E19-282PT	Cabinet concealed swing down eyewash, with stainless steel bowl and P-trap 1 1/4"	1/2" BSP	



Wall mounted

Bradtect yellow coating

Complies with EN 15154 and ANSI Z 358.1-2004

The valve stays open after activation

ABS plastic sprayheads for face- and eyewash, with dustcovers and flow control

Inclusive:

*International safety sign

*Installation-instructions (English)

*Inspectiontag

With bowl

technical details:

- Water supply: 1/2" BSP
- Waste: 1 1/4" BSP
- 1/2" chrome plated brass stay-open ball valve with plastic push handle



Article	Description	Connection	
20-E19-230T	Eye-/face shower with stainless steel bowl without wall bracket	1/2" BSP	
20-E19-220FW	Eye-/face shower with ABS bowl with wall bracket	1/2" BSP	
20-E19-220P	Eye-/face shower with ABS bowl with wall bracket and hand-held shower	1/2" BSP	
20-E19-220T	Eye-/face shower with stainless steel bowl, with wall bracket	1/2" BSP	



Freestanding

Pipe and fittings: Galvanized steel column with waste outlet and floor flange, all protected with Bradtect yellow coating
Complies with EN 15154 and ANSI Z 358.1-2004

ABS plastic sprayheads for eye- and facewash, with dustcovers and flowcontrol

Inclusive:

- *International safety sign
- *Installation-instructions (English)
- *Inspectiontag

With bowl

technical details:

- Water supply: 1/2" BSP
- Waste: 1 1/4" BSP
- 1/2" chrome plated brass stay-open ball valve with plastic push handle



Article	Description	Connection	
20-E19-210Y	Freestanding eye-/face shower with stainless steel bowl	1/2" BSP	
20-E19-210P	Freestanding eye-/face shower with stainless steel bowl and hand-held shower	1/2" BSP	
20-E19-210X	Freestanding eye-/face shower with stainless steel bowl, hand- or foot operated	1/2 BSP	



Bench mounted

Suitable for installation into worktop

Complies with EN 15154 and ANSI Z 358.1-2004

Bowl: stainless steel sinkbowl

Plastic ABS sprayheads for face and eyes, with dustcovers and flowcontrol

Inclusive:

*International safety sign

*Installation instructions (English)

*Inspectiontag

With bowl

technical details:

- Water supply: 1/2" BSP
- Waste: 1 1/4" BSP
- 1/2" chrome plated brass stay-open ball valve with stainless steel push handle



Article	Description	Connection	
20-E19-260	Eye-/face shower with stainless steel sinkbowl	1/2" BSP	



Cabinet mounted

Eye- and face shower in stainless steel cabinet, wall mounted
Recessed installation. Space-saving and easy to clean
Supplied with a door to keep the eyeshower clean
The waste water is collected into the cabinet's internal drain
Eye-/face shower activates when stainless steel door is opened
Also suitable for disabled persons
Complies with EN15154 en ANSI-Z358.1-2004

With bowl

technical details:

- Unit requires wall opening of 417 x 857 x 102 mm
- Cabinet is corrosion resistant stainless steel
- Eye shower chrome plated brass with plastic (ABS) sprayheads
- Connection 1/2" BSP
- Supplied inclusive international safety sign
- Inclusive inspection tag
- Inclusive integrated flow-control valve



Article	Description	Connection	
20-E19-292	Concealed swing-activated eye-/face shower, stainless steel bowl	1/2" BSP	



Stations

Complies with: ANSI-Z358.1-2004

Water is tenable for 4 months by means of a special antibacterial addition

Place on a Flat Surface or Wall Mount

Inclusive:

- * 1 bottle antibacterial addition, sufficient for 2 units
- * Stainless steel wall bracket
- * International safety sign
- * Installation-instructions (English)
- * Inspectiontag



technical details:

- Contents: 26,5 litre
- Consumption: 1,5 l/min
- Material: polycarbonate / polypropylene
- Colour: yellow

Connection to water supply is not required

Article	Description		
20-E19-921	Portable station with tank, suitable for 15 minutes flushing		

Refill

Antibacterial liquid to keep 23-75 litre qualified for up to 4 months

Inclusive the required materials to refill the eyewash station 20-E19-921

Bottle contains sufficient liquid to fill 2 eyewash stations model 20-E19-921

Article	Description		
20-E19-899	Refill for eyewash-station		



Complies with EN 15154 and ANSI Z 358.1-2004
 Plastic (ABS) sprayheads, with dust covers and flow control
 Hose: reinforced thermoplastic, suitable up till 10 bar. Length 2,4m
 Inclusive:
 *International safety sign
 *Installation instructions (English)
 *Inspectiontag

Bench mounted

technical details:

- Water supply: 3/8" BSP
- Chrome plated brass valve with extended handle
- Valve stays open after activation
- Inclusive drain flange

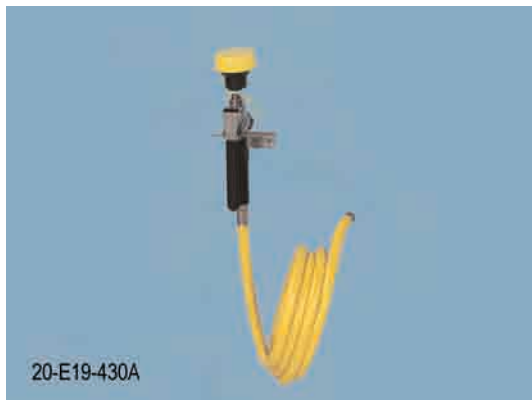


Article	Description	Connection	
20-E19-460	Hand-held shower with single ABS sprayhead	3/8" BSP	
20-E19-460EFW	Hand-held shower with dual ABS sprayhead	3/8" BSP	

Wall mounted

technical details:

- Water supply: 3/8" BSP
- Chrome plated brass valve with extended handle
- Valve stays open after activation



Article	Description	Connection	
20-E19-430A	Hand-held shower with 1 sprayhead and stainless steel wall bracket	3/8" BSP	



Retrofit kit for Body-/eye showers

technical details:

- Water supply: 3/8" BSP
- Chrome plated brass valve with extended handle
- Valve stays open after activation



Article	Description	Connection	
20-E19-430EH	Hand-held shower with ABS sprayhead for installation on an eye shower, with wall bracket	3/8"BSP	
20-E19-430SH	Hand-held shower with ABS sprayhead for installation on a body shower, with wall bracket	3/8"BSP	



Body showers

Pipe and fittings: Galvanized steel, all protected with Bradtect yellow coating

Water supply: under the surface or indoor

Ball valve: self-draining

Complies with EN 15154 and ANSI Z 358.1-2004

Inclusive:

*International safety sign

*Installation instructions (English)

*Inspectiontag

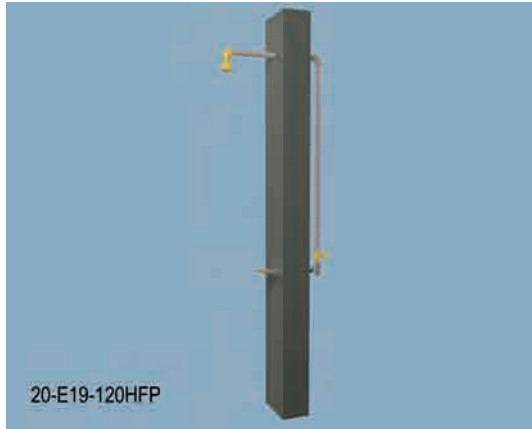
Wall mounted

technical details:

- Water flow: 80 l/min
- Inlet connection: 1" BSP
- 1" chrome plated brass stay-open ball valve with stainless steel push handle
- When ordering please specify the wall thickness

Pipework between valve and showerhead is not included.

For matching pipework: see page 90



Article	Description	Connection	
20-E19-120HFP8	Body shower frostproof with ABS showerhead for wall thickness 0 - 200 mm	1" BSP	
20-E19-120HFP12	Body shower frostproof with ABS showerhead for wall thickness 200 - 300 mm	1" BSP	
20-E19-120HFP18	Body shower frostproof with ABS showerhead for wall thickness 300 - 450 mm	1" BSP	

Freestanding

technical details:

- Shower requires an excavation for drain and inlet installation
- Inlet connection: 1 1/4" BSP (at 914mm bury depth)
- Drain: below ground
- Valve is operated by a stainless steel push flag handle

Other bury depths available on request



Article	Description	Connection	
20-E19-110HFP	Freestanding bodyshower frostproof with ABS showerhead	1 1/4" BSP	



Eye showers

Pipe en fittings: galvanized steel, all protected with Bradtect yellow coating

Ball valve: self-draining

Chrome plated brass sprayheads, with dustcovers and flowcontrol

Complies with EN 15154 and ANSI Z 358.1-1990

Inclusive:

*International safety sign

*Installation instructions (English)

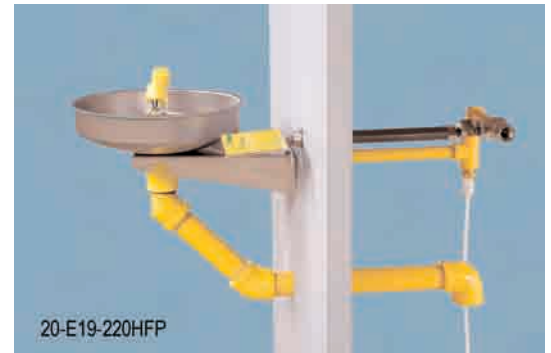
*Inspectiontag

Wall-mounted

technical details:

- Water supply: 1/2" BSP
- Waste: 1 1/4" BSP
- 1/2" chrome plated brass ball valve with stainless steel push handle
- Ball valve to be installed inside the building

When ordering please specify the wall thickness



Article	Description	Connection	
20-E19-220HFP8	Eye shower frostproof with stainless steel bowl for wall thickness 0 - 200 mm	1/2"BSP	
20-E19-220HFP12	Eye shower frostproof with stainless steel bowl for wall thickness 200 - 300 mm	1/2"BSP	
20-E19-220HFP18	Eye shower frostproof with stainless steel bowl for wall thickness 300 - 450 mm	1/2"BSP	

Freestanding

technical details:

- Shower requires an excavation for drain and inlet installation
- Inlet connection: 1 1/4" BSP (at 914mm bury depth)
- Drain: below ground
- Valve is operated by a stainless steel push flag handle

Other bury depths available on request



Article	Description	Connection	
20-E19-210HFP	Freestanding eyeshower frostproof with stainless steel bowl	1 1/4"BSP	



Combinations

Pipe en fittings: galvanized steel column with waste outlet and floor flange, all protected with Bradtect yellow coating
Complies with EN 15154 and ANSI Z 358.1-2004

Inclusive:

- *International safety sign
- *Installation instructions (English)
- *Inspectiontag

Wall mounted

technical details:

- Inlet connection: 1 1/4" BSP, to be connected inside the building
- Drain: inside the building
- Body shower: self-draining, stay-open ball-valve with stainless steel push handle
- Eye shower: self-draining, stay-open ball valve with stainless steel push handle
- Body shower and eye-face/shower operate independently
- When ordering please specify the wall thickness

Other bury depths available on request



Article	Description	Connection	
20-E19-310TW8	Body shower frostproof with ABS showerhead and eye shower without bowl for wall thickness 0 - 200 mm	1 1/4" BSP	
20-E19-310TW12	Body shower frostproof with ABS showerhead and eye shower without bowl for wall thickness 200 - 300 mm	1 1/4" BSP	
20-E19-310TW18	Body shower frostproof with ABS showerhead and eye shower without bowl for wall thickness 300 - 450 mm	1 1/4" BSP	

Freestanding

technical details:

- Shower requires an excavation for drain and inlet installation
 - Inlet connection: 1 1/4" BSP (at 914mm bury depth)
 - Drain: below ground
 - Valve is operated by a stainless steel push flag handle
- When ordering please specify the wall thickness

Other bury depths available on request



Article	Description	Connection	
20-E19-310HFP	Body shower frostproof with ABS showerhead and eye-/faceshower without bowl, 1-handle operation	1 1/4" BSP	
20-E19-310NN	Body shower frostproof with stainless steel showerhead and eyeshower with stainless steel bowl, independent operation	1 1/4" BSP	



Mixing valves

Reliable liquid-filled thermostatic mixing valve, specifically designed for safety showers

Complies with ANSI-358.1-2004

Mixes hot and cold water to a comfortable flushing temperature

Standard factory pre-set temperature is 30°C

Without cabinet

technical details:

- Temperature range: 18 - 35°C
- Built-in cold water bypass, assuring cold flow
- Positive shut-off of hot supply when cold supply is lost
- Non-return valves on inlets
- Material: Brass
- Reliable liquid-filled thermometer



Article	Description	Connection	
20-E19-2000	Navigator mixing valve 30 litre/min accommodates up to 3 eyeshowers or 1 eye-/face shower	1/2"BSP	
20-E19-2100	Navigator mixing valve 136 litre/min accomodates up to 1 bodyshower or 1 combination shower or several eye-/face showers	3/4"BSP	
20-E19-2200	Navigator mxing valve 253 litre/min accomodates up to 2 bodyshowers or combination showers or several eye-/face showers	1"BSP	
20-E19-2000EFX	Navigator mixing valve 30 litre/min for 20-E19-292	1/2"BSP	

With cabinet

technical details:

- Temperature range: 18 - 35°C
- Built-in cold water bypass, assuring cold flow
- Positive shut-off of hot supply when cold supply is lost
- Non-return valves on inlets
- Material: Brass
- Reliable liquid-filled thermometer



Article	Description	Connection	
20-E19-2000SS	Navigator mixing valve 30 litre/min accommodates up to 3 eyeshowers or 1 eye-/face shower	1/2"BSP	
20-E19-2100SS	Navigator mixing valve 136 litre/min accomodates up to 1 bodyshower or 1 combination shower or several eye-/face showers	3/4"BSP	
20-E19-2200SS	Navigator mixing valve 136 litre/min accomodates up to 1 bodyshower or 1 combination shower or several eye-/face showers	1"BSP	



Accessories



Test and control

Article	Description		
20-S19-330ST	Bodyshower tester, watertight chemical resistant funnel		
22-204-421	Inspectiontag for safety showers		
22-269-1444	Eye shower tester to check the flow pattern		



Safety signs

Article	Description		
22-114-050	Safety sign body shower		
22-114-051	Safetysign eye shower		
22-114-052	Safetysign combination shower		



Spare parts

Ball valves

Article	Description	Connection	
22-S27-282	Ball valve chrome plated brass for eye- and eye-/face shower	1/2"BSP	
22-S30-059	Ball valve chrome plated brass for body- or combination shower	1"BSP	

Handles and foot treadles

Article	Description		
22-S08-336	Stainless steel handle for eye shower		
22-128-135	Plastic handle for eye shower		
22-S39-395	Foot treadle for eye shower 220 series		
22-S45-572	Foot treadle for eye shower 210/310 series		

Eyewash bowls

Article	Description		
22-154-058	Plastic bowl for eye shower and eye-/faceshower		
22-187-053	Stainless steel bowl for eye shower and eye-/faceshower		

Showerheads

Article	Description		
22-S24-194	Retrofit kit, SpinTec ABS showerhead and elbow		
22-S24-195	Retrofit kit, Spintec ABS showerhead with ABS shroud and elbow		
22-S24-196	Retrofit kit, SpinTec ABS showerhead with stainless steel shroud and elbow		
22-S24-200	Retrofit kit, SpinTec stainless steel showerhead and stainless steel elbow		
22-S24-188	Spintec ABS showerhead		

Dust caps and covers

Article	Description		
22-S53-063	Dust cap (large) for eye-/face shower, colour yellow		
22-107-371	Dust cap (small) for eye shower, colour yellow		
22-S45-1964	Plastic ABS retrofit dustcover for eye shower colour yellow		



Spare parts

Pipework 20-E19-120HFP

Pipework for connection between the valve and the showerhead

Article	Description		
22-120HFP8	Pipework for 20-E19-120HFP, wall thickness 0-200 mm, colour: yellow		
22-120HFP12	Pipework for 20-E19-120HFP, wall thickness 200-300 mm, colour: yellow		
22-120HFP18	Pipework for 20-E19-120HFP, wall thickness 300-450 mm, colour: yellow		

Pull-rods

Article	Description		
22-128-156A	Stainless steel pull-rod for body- or combination shower		

Spraying for eye-/face shower

Article	Description		
22-S05-127	Spraying for eye-/face shower		
22-S05-130	Eyewash sprayhead assembly without dust covers		
22-S39-396	Eye-/facewash sprayhead assembly with plastic ABS sprayheads and dustcovers		
22-S05-135	Plastic ABS eye-/face sprayhead colour: black		

Hand-held showers and hoses

Article	Description		
22-S89-002	Synthetic thermoplastic hose for hand-held shower, colour: yellow		
22-S19-787	Replacement valve with sprayhead		



Complies with DIN 12899
 Showerhead: 6 fixed sprayheads
 Ball valve: stays open after activation
 Inclusive pull-rod
 Material: galvanized steel pipes, fittings made of brass
 Fully protected with red epoxy powdercoating
 Inclusive:
 *International safety sign

Wall mounted

technical details:

- Inlet connection: 3/4" BSP



Article	Description	Connection	
21-1100/150	Body shower horizontal supply wall-mounted	3/4"BSP	
21-1100/155	Body shower horizontal supply for mounting above a door	3/4"BSP	

Vertical Supply

technical details:

- Inlet connection: 3/4" BSP



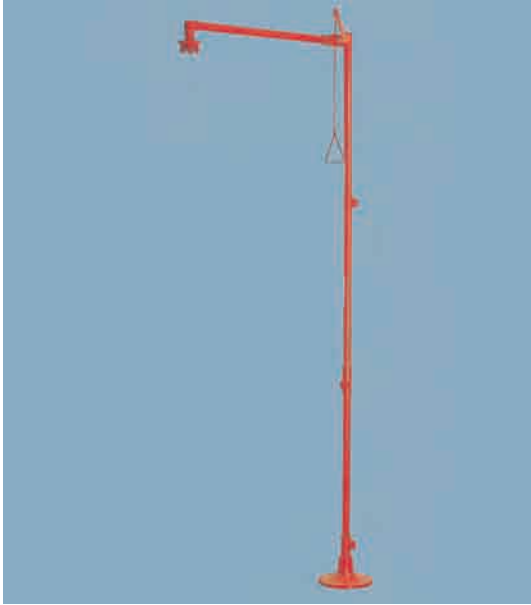
Article	Description	Connection	
21-1100/200	Body shower vertical supply	3/4"BSP	



Freestanding

technical details:

- Inlet connection: 1" BSP



Article	Description	Connection	
21-1100/350	Freestanding bodyshower	1"BSP	



Complies with DIN 12899
 Bowl: impact resistant plastic (red)
 Sprayhead: 2 soft flow sprayheads with eye-protection caps
 Ball valve: stays open after activation
 Operation: large plastic handle
 Material: galvanized steel pipes, fittings are made of brass
 Fully protected with red epoxy powdercoating
 Inclusive:
 *International safety sign

Wall mounted

technical details:

- Inlet connection: 1/2" BSP
- Waste: 1" BSP



Article	Description	Connection
21-1100/300	Eye shower wall mounted	1/2"BSP

Freestanding

technical details:

- Inlet connection: 1/2" BSP
- Waste: 1" BSP



Article	Description	Connection
21-1100/320	Freestanding eye shower	1/2"BSP
21-1100/330	Freestanding eye shower hand- or foot operated	1/2"BSP



Freestanding

Complies with DIN 12899

Showerhead: 6 fixed sprayheads

Ball valve: stays open after activation

Inclusive pull-rod

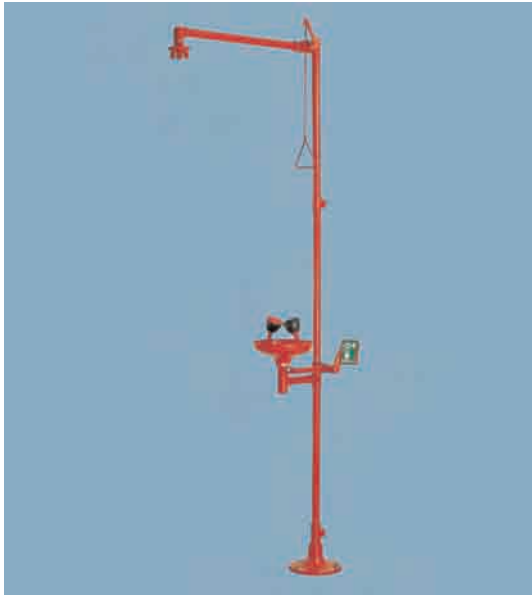
Material: galvanized steel pipes, fittings are made of brass

Fully protected with red epoxy powdercoating

Inclusive:

*International safety sign

Body shower with eye shower



Eyeshower:

Impact resistant plastic bowl (red)

2 soft flow sprayheads

Operation: large plastic handle

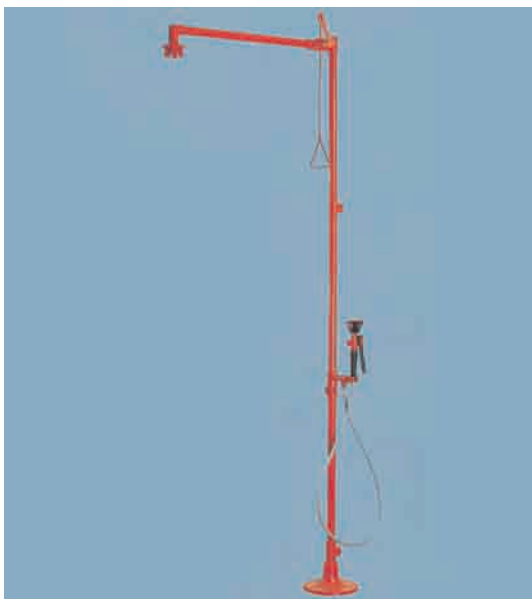
technical details:

- Inlet connection: 1" BSP

- Waste: 1" BSP

Article	Description	Connection	
21-1100/370	Bodyshower with eyeshower on column	1" BSP	
21-1100/380	Bodyshower with eyeshower on column, hand- or foot operated	1" BSP	

Freestanding body shower with hand-held shower



technical details:

- Inlet connection: 1" BSP

- Waste: 1" BSP

Article	Description	Connection	
21-1100/390	Bodyshower with hand-held shower on column	1" BSP	



Single sprayhead

- Valve with plastic squeeze handle
- Valve stays open after activation
- Plastic soft flow sprayhead with eye-protection cap
- Hose: stainless steel protected, length 1,5m
- Material: Brass with epoxy powdercoating
- Colour: red
- Inclusive:
- *International safety sign

Bench mounted

Hand-held shower with single sprayhead

technical details:

- Inlet connection: 3/8" BSP
- Inclusive bench transit
- Ball valve: stay-open ball valve with plastic handle
- Sprayhead assembly: 1 soft flow sprayhead with eye-protection cap



Article	Description	Connection	
21-1100/015	Single hand-held shower bench mounted	3/8"BSP	

Wall mounted

Hand-held shower with single sprayhead

technical details:

- Inlet connection: 3/8" BSP
- Ball valve: stay-open ball valve with plastic handle
- Sprayhead assembly: 1 soft flow sprayhead with eye-protection cap



21-1100/015	Hand held shower for wall mounting, with wall-transit	3/8"BSP	
21-1100/065	Hand held shower with bracket for wall mounting, with bracket	3/8"BSP	



Dual sprayhead

- Valve with plastic squeeze handle
- Valve stays open after activation
- Plastic soft flow sprayhead with eye-protection cap
- Hose: stainless steel protected, length 1,5m
- Material: Brass with epoxy powdercoating
- Colour: red
- Inclusive:
- *International safety sign



Bench mounted

Hand-held shower with two sprayheads.

technical details:

- Inlet connection: 3/8" BSP
- Inclusive bench-transit
- Ball valve: stay-open ball valve with plastic handle
- Sprayhead assembly: 1 soft flow sprayhead with eye-protection cap

Article	Description	Connection	
21-1100/030	Hand-held shower with dual sprayhead bench mounted	3/8" BSP	
21-1100/060	Hand-held shower with dual sprayhead bench mounted, 45°	3/8" BSP	



Wall mounted

Hand-held shower with two sprayheads.

technical details:

- Inlet connection: 3/8" BSP
- Ball valve: stay-open ball valve with plastic handle
- Sprayhead assembly: 1 soft flow sprayhead with eye-protection cap

Artikel	Omschrijving	Connection	
21-1100/042	Hand held shower with dual sprayhead and bracket for wall mounting	3/8" BSP	



Dual sprayhead

Portable eye-/face shower, capacity 15 litre
Tank to be pressurized at 6 bar air pressure
Hand-held shower with eye-protection cap and dustcover
Tank made of stainless steel
Stainless steel braided hose, length 1,5 metre
Soft flow sprayhead
Complies with DIN12899 – UNI 9608
Supplied with pressure control gauge and pressure relief valve in case of accidental overcharge

Portable shower

technical details:

- Capacity 15 litre
- Tank pressurized at 6 bar



Article	Description		
21-1100/250	Portable pressurized safetyshower		



Spare parts



Article	Description	Connection	
21-1100/085	Stainless steel braided hose, length 1,5 metre	G=1/2"-G2=3/8"	
21-1100/100	Eye protection cap for hand-held shower inclusive dustcover		
21-1100/103	Straight dual sprayhead assembly for hand-held shower		
21-1100/104	45° angled dual sprayhead assembly for hand-held showers		
21-1100/103/2	Aerator for eye showers with dual sprayhead, model "A"	1/2" int.	
21-1100/5/18	Aerator for eye showers with single sprayhead, model "C"	1/2" int.	
21-1100/135	Showerhead voor body shower		
21-1100/138	Handle and ball valve kit for eyeshower on combination shower		
21-1100/150/3	Triangular pull rod for body showers		
21-1100/205	Identification sign for eye shower		
21-1100/210	Identification sign for body shower		
21-1100/300/2	Handle with ball valve for eyeshower		
21-1100/301	Bowl voor eye shower		
21-1100/302	Fixing selant 85-86		
21-1100/330/1	Foot treadle kit for eye showers		
21-1100/5/20	Sealing pin for hand-held shower		
21-1100/89	Squeeze handle for hand-held shower		
21-1100/90	Straight flange kit for bench mounting		
21-1100/91	45° angled flange kit for bench mounting		
21-1100/93	Wall bracket for hand-held shower		
21-1100/95	Shower body and handle for hand-held shower		
21-1100/96	Push handle for eye shower		



General notes with regard to the installation of safety showers

The safest possible situation is created by a combination of a high-quality product and a professional installation of the product. Some general instructions and requirements for a safe and professional installation are mentioned below.

Distinction

Safety showers are normally subdivided into body showers (or drench showers), eye showers and combinations of these. Other options are face showers and drench hoses.

Directions for installation and use

By combining the requirements as laid down in the American ANSI norm Z358.1-2004 and the European norm EN15154-2006, the following recommendations can be given with regard to installation and use of safety showers:

The time that is needed to reach a safety-shower is determined by the aggressiveness of the chemicals. The safety-shower should be within 3 metres from a spot where aggressive or caustic chemicals are used.

A safety shower should at least be attainable within 10 seconds or within a maximum of 30 metres walking distance. The showers should be easy to reach and not installed in an escape-route or above a door. The number of safety showers should be based on the number of possible victims at the same time.

The safety-shower need to be connected directly to the waterworks. The diameter of the pipe leading to the shower should have at least the same size as the diameter of the inlet of the shower.

"Dead" water lines should be avoided, to minimize the risk of bacterial growth (such as legionella).

Minimal pressure should be 2 bar. Maximum pressure 4,5 bar.

Minimal capacity: For emergency-showers 80 l/min, eye-showers 6 l/min, eye/face-showers 12 l/min. Please check local requirements for exact figures. The flow rate should be checked after installation.

Safety-showers need to be installed on a clearly visible place, easy to reach. Installation should be on the same height as the source of possible danger. A universal safety-sign should be placed near the safety-shower.

Eye-showers are producing 2 soft water jets, directed inwards to each other, the height to be approximately 0,25 metre. Important is that the water jets do not harm the eyes.

Position emergency-showers about 2,26 metre above the floor (not above an entrance). The recommended height for eye-showers is approximately 1,2 metres.

Recommended water-temperature is to be between 15°C and 35°C

If the safety-showers are to be installed outside, make sure that they are protected against frost.

Operation

-Manual operation by means of a chain, pull rod or handle.

-Floor operation by means of a treadle or grating.

The shower should run immediately after activating, and has to stay open until it is turned-off.

All employees need to be informed where the safety-showers are located and need to know how they can be activated.

Maintenance: Safety-showers need to be inspected and tested weekly (ANSI), or at least monthly. Avoid growth of bacteria or fur in the shower.

In case of emergency

- rinse immediately with water, as long as possible
- call for a doctor or an ambulance
- inform the doctor about the substance that caused the injuries

Additional Remarks

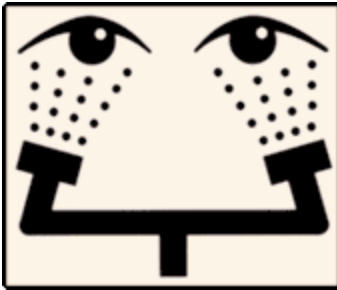
-15 minutes of flushing is recommended.

-Installation of an alarm device is recommended if only one person is working in the hazardous area

-Squeeze-operated showers with only one spray head can not replace eye-showers, while both eyes are often harmed during an accident.

-Both hands have to be free to keep the eyes open during flushing.

-Eyewash-bottles are only to be used as a complementary device, not as a replacement.



International safety sign
P/N 114-051

Sources:

- EN15154
- ANSI Z.358-1
- Voorstudie ST-11, TVVL

January 2009

Steendam lab furnishing supplies BV does not accept any responsibility for damage caused by incorrect or missing data in these directives



International safety sign
P/N 115-050

Technical details Bradley safety showers

Standards

Bradley safety showers are produced according to the American standard ANSI Z 358.1-2004. All European models also meet the requirements of EN 15154. This European standard guarantees a product that meets the strict requirements of quality, operation and capacity.

Bradley offers a complete range of safety showers, covering all requirements for safety showers

Coating

All hot dipped galvanised piping on Bradley safety showers is additionally protected with a tough, highly visible finish coat called Bradtect Safety Yellow.

This coating is a catalysed polyurethane coating that makes Bradley safety showers easy to maintain, corrosion resistant and, more importantly, easy to see in case of emergency.

Several models in stainless steel and in PVC are available as well.

Chemical resistance

A safety shower has to meet the requirements of chemical resistance for the use in laboratories. Under stringent testing, the catalysed polyurethane coating withstood 500 hours of constant salt spray, 100 hours of water immersion and 1000 hours of 100% relative humidity. It also provided excellent resistance against staining, dulling and damage by thinner, acetone, MEK, gasoline, xylene, hydraulic fluids, lubrication oils and cutting oils.



Showerhead

All Bradley bodyshowers come standard with a SpinTec showerhead. The design of the SpinTec showerhead is based on the latest technology in fluid dynamics. It provides a uniform distribution of water, which means the most effective removal of contaminants from the body.

SpinTec showerheads are equipped with an integral flow control. The showerhead is self draining and therefore eliminates the risk of bacteria growth in the dead leg of the pipe.

SpinTec showerheads are available in ABS plastic and in stainless steel.

Frost proof safety showers

The frost proof valve is connected to the water supply below the frost line. Draining of the pipes will be done automatically after using the safety shower. For an optimal drainage, you can bury crushed stones round and below the drain waste outlet. Please specify depth of bury for the frost proof valve by ordering the safety shower. Standard depth is 914 mm, other available depths are 457 mm, 1219 mm, 1524 mm and 1829 mm. Please note that non-standard sizes can NOT be returned.

The frost proof drench shower and eye washer have to be mounted on an outside-wall. The valve is installed at the other side of the wall, inside the building. When ordering these showers (20-E19-120HFP and 20-E19-220HFP), please indicate the wall thickness.

Warranty Bradley

The warranty-period on demonstrable production errors is one year, starting from the date of delivery. Showers which are installed incorrectly are excluded from warranty.

Technical details TOF safety showers

TOF safety showers are produced according to DIN standard 12898.

All hot dipped galvanised piping of drench-showers, eye-washers and drench hoses are coated with chemical resistant epoxy powder coating in red colour. The eyewash bowls are made of ABS plastic. Minimum pressure is 2 bar

Drench hoses

TOF drench hoses are characterised by a high water supply together with a very soft spout. This combination guarantees immediate and adequate washing of the injured body parts.

All drench hoses are supplied completely with rubber eye-protecting covers, anti-dust covers, stainless steel hose and all necessary parts for the installation.

Warranty TOF

The warranty-period on demonstrable production errors is one year, starting the date of delivery. Incorrectly installed showers are excluded from warranty.





Worktops cut to size

The products are characterized by a high density and excellent chemical and mechanical resistance. It complies with all requirements of DIN28062 (Table of materials 1.1.4)

The worktops are produced according to DIN 12916

SystemCeram stoneware is resistant to all acids, with the exception of hydrofluoric acid and fuming sulphuric acid (Oleum)

Within the maximum dimension of 2000x990mm, all kinds of dimensions, cut-outs, raised levels etc. are possible
For larger surfaces, several units will be combined

Dimensional tolerances:

Opposite cut edges: ± 1 mm

Opposite cut and uncut edge: $\pm 0,3\%$

Opposite uncut edges: ± 1 %

Standard raised edge

technical details:

- Uncut edges are glazed
- Cut to size edges are unglazed
- Worktop thickness: 35 mm \pm 2 mm, inclusive raised edge
- Raised edge: height 7mm \pm 1mm



Article	Description	Colour	
38-3000AA	Ceramic worktop cut to size with standard raised front edge, per m2	alu (light grey)	
38-3000AW	Ceramic worktop cut to size with standard raised front edge, per m2	polar (white)	

Rounded front edge

technical details:

- Uncut edges are glazed
- Cut to size edges are unglazed
- Worktop thickness: 35 mm \pm 2 mm, inclusive raised edge
- Raised edge: height 7mm \pm 1mm



Article	Description	Colour	
38-3000BA	Ceramic worktop cut to size with round raised front edge, per m2	alu (light grey)	
38-3000BW	Ceramic worktop cut to size with round raised front edge, per m2	polar (white)	



Worktops cut to size

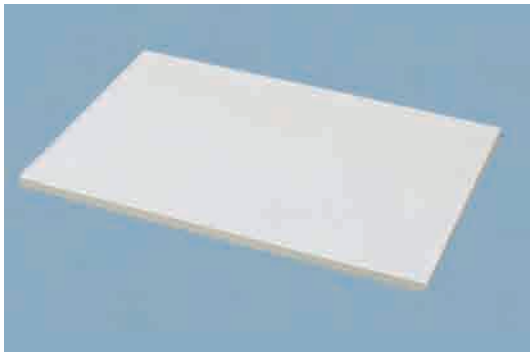


Sloping front edge

technical details:

- Uncut edges are glazed
- Cut to size edges are unglazed
- Worktop thickness: 35 mm \pm 2 mm, inclusive raised edge
- Raised edge: height 7mm \pm 1mm

Article	Description	Colour	
38-3000CA	Ceramic worktop cut to size with sloping raised front edge, per m2	alu (light grey)	
38-3000CW	Ceramic worktop cut to size with sloping raised front edge, per m2	polar (white)	



Without raised edge

technical details:

- Uncut edges are glazed, cut to size edges are unglazed
- Worktop thickness: 28 mm \pm 2 mm

Article	Description	Colour	
38-5000AA	Ceramic worktop cut to size without raised edge, per m2	alu (lightgrey)	
38-5000AW	Ceramic worktop cut to size without raised edge, per m2	polar (white)	



Worktops uncut

The products are characterized by a high density and excellent chemical and mechanical resistance. It complies with all requirements of DIN28062 (Table of materials 1.1.4)

The worktops are produced according to DIN 12916

SystemCeram stoneware is resistant to all acids, with the exception of hydrofluoric acid and fuming sulphuric acid (Oleum)

Within the maximum dimension of 2000x990mm, all kinds of dimensions, cut-outs, raised levels etc. are possible for larger surfaces, several units will be combined

Dimensional tolerances:

Opposite uncut edges: $\pm 1 \%$

Standard raised edge

technical details:

- Uncut edges are glazed
- Worktop thickness: 35 mm \pm 2 mm, inclusive raised edge
- Raised edge: height 7mm \pm 1mm



Article	Description	Colour	
38-2000AA	Ceramic worktop uncut with standard raised front edge, per m2	alu (light grey)	
38-2000AW	Ceramic worktop uncut with standard raised front edge, per m2	polar (white)	

Rounded front edge

technical details:

- Uncut edges are glazed
- Worktop thickness: 35 mm \pm 2 mm, inclusive raised edge
- Raised edge: height 7mm \pm 1mm



Article	Description	Colour	
38-2000BA	Ceramic worktop uncut with round raised front edge, per m2	alu (light grey)	
38-2000BW	Ceramic worktop uncut with round raised front edge, per m2	polar (white)	

Sloping front edge

technical details:

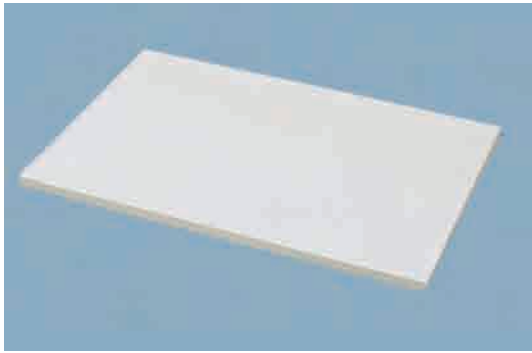
- Uncut edges are glazed
- Worktop thickness: 35 mm \pm 2 mm, inclusive raised edge
- Raised edge: height 7mm \pm 1mm



Article	Description	Colour	
38-2000CA	Ceramic worktop uncut with sloping raised front edge, per m2	alu (light grey)	
38-2000CW	Ceramic worktop uncut with sloping raised front edge, per m2	polar (white)	



Worktops uncut



Without raised edge

technical dtails:

- Uncut edges are glazed
- Worktop thickness: 28 mm \pm 2 mm

Article	Discription	Colour	
38-4000AA	Ceramic worktop uncut without raised edge, per m2	alu (light grey)	
38-4000AW	Ceramic worktop uncut without raised edge, per m2	polar (white)	



Machining operations

Drip cup cut-outs

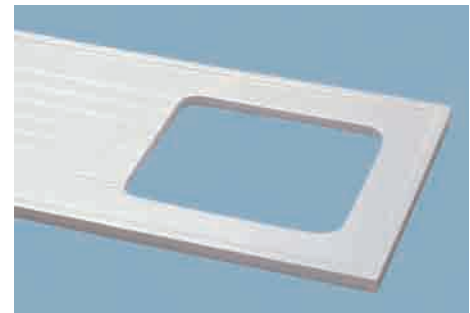
Glazed cut-out for drip cup



Article	Description		
38-0011	Drip cup cut-out Ø90mm for drip cup 48-1211		
38-0011S	Rebated drip cup cut-out Ø80mm for PP drip cup 42-501		
38-0012	Oval drip cup cut-out approx. 240x82mm for 48-1215		
38-0012S	Rebated oval drip cup cut-out approx. 230x75mm for PP drip cup 42-498		
38-0013S	Rebated oval drip cup cut-out approx. 150x70mm for PP drip cup 42-497		
38-0014	Large oval drip cup cut-out for 48-1213 and 48-1245		

Sink cut-outs

Glazed cut-out for sink



Article	Description		
38-0380	Cut-out up to 680x380mm for undermount sinks		
38-0383	Cut-out over 680x380mm for undermount sinks		

Drainage grooves

A set consists of approx. 7 grooves at one side of a sink



Article	Description		
38-0385	Drainage grooves (set)		



Machining operations

Sink bonding

Bonding a ceramic sink in/under a KeraLab worktop

Article	Description		
38-KE1000	1 kg. 3-component glue for fixing ceramic dripcups and sinks under KeraLab worktops		
38-0027	Bonding a ceramic sink under a KeraLab worktop		
38-0026	Bonding a ceramic drip cup under a KeraLab worktop		

Special operations

Within the maximum dimension of 2000x990mm, all kinds of dimensions, cut-outs, raised levels etc. are possible, by means of CAD-controlled milling technology and advanced drying techniques.

Article	Description	Dimension	
38-0022	Special cuts per running metre		
38-0023	Varnishing of a cutted edge		
38-0001	Applying 1 drilling in a KeraLab worktop	Ø6mm - Ø95 mm	
38-0002	Applying 2 drillings in a KeraLab worktop, each drilling	Ø6mm - Ø95 mm	
38-0003	Applying 3 or more drillings in a KeraLab worktop, each drilling	Ø6mm - Ø95 mm	



Allia slabs are modular, self-wearing ceramic tops, which are combined to create a complete worksurface

Slabs without sink

Ceramic slab with a high chemical resistance
 Glazed on 3 sides
 Thickness 38mm (incl. raised edge)
 Thickness 30mm (without raised edge)



Article	Description	Dimension	
31-7530	Ceramic slab with raised edge on front- and backside	600x600mm	
31-7590	Ceramic slab with raised edge on 3 sides	600x600mm	
31-7550	Ceramic slab with raised edge on front- and backside	600x750mm	
31-7515	Ceramic slab with raised edge on 3 sides	650x750mm	
31-7700	Ceramic slab without raised edges	600x600mm	
31-7710	Ceramic slab without raised edges	600x750mm	

Slabs with sink

Ceramic slab with a high chemical resistance
 Thickness 38mm (incl. raised edge)
 Thickness 30mm (without raised edge)

Technical details:

- Inclusive 1 1/2" polypropylene waste fitting or ceramic tail

Available options for 31-7870

ceramic strainer: see page 140

contraction sleeve: see page 140



Article	Description	Dimension	Connecti on
31-5910	Ceramic slab with sink 450x390x210mm, without raised edges	600x600mm	1 1/2"
31-7850	Ceramic slab with sink 450x390x210mm, raised edge on front- and backside	600x600mm	1 1/2"
31-7870	Ceramic slab with sink 255x235x165mm, without raised edges	600x600mm	ø58 mm



Sink units

Ceramic sink-unit with a high chemical resistance
Glazed raised edge on 4 sides.
Inclusive 1 1/2" waste fitting(s) with overflow

Article	Description	Dimension	
31-3170	Ceramic sink-unit with 2 sinks	1400x600mm	
31-3660	Ceramic sink-unit with 1 sink	1200x600mm	

Machining operations

Article	Description		
31-K2540	Tap hole $\varnothing 25\text{mm}$ - $\varnothing 40$ mm		



Tiles

Keraion tiles are specially suitable to create a laboratory work surface
Keraion tiles have a sublime surface hardness, an excellent chemical resistance and are heat resistant

All Keraion tiles have a white glazed surface



Article	Description	Dimension	
34-42030W	Ceramic tile thickness 8mm	144x144mm	
34-42060	Ceramic tile thickness 8mm	294x294mm	
34-K100W	Ceramic tile thickness 8mm	592x592mm	
34-K102	Ceramic tile thickness 8mm	745x592mm	
34-K104W	Ceramic tile thickness 8mm	892x592mm	
34-K416	Ceramic tile thickness 8mm	892x892mm	
34-K414	Ceramic tile thickness 8mm	1192x892mm	

Edge profiles

Edge profiles for tiled worktops

Special glue to fix the polypropylene profiles: see page 112



Article	Description	Dimension	RAL
34-2947	Polypropylene edge profile beige/grey, per metre	5000x29x47mm	7032
34-2947G	Polypropylene edge profile light grey, per metre	5000x29x47mm	7035
34-47170W	Ceramic edge profile with overhang, white, thickness 8mm	294x72x42mm	
34-47175W	Ceramic edge profile without overhang, white, thickness 8mm	294x72x15mm	



Corner profiles

Corner profiles for tiled worktops



Article	Description	Dimension	
34-47172W	Ceramic corner profile with overhang, white, thickness 8mm	72x72x42mm	
34-47177W	Ceramic corner profile without overhang, white, thickness 8mm	72x72x25mm	

Accessories

Glue for polypropylene edge profiles

Article	Description	Contents	
34-15381	Special glue for bonding the polypropylene edge profiles 34-2947	cartridge 310ml	



Basic worktops

Polypropylene worktop with marine edge
 Colour: light grey, RAL7035 (standard)
 Other colours available on request

Polypropylene worktop made to order

This worktop can be combined with a range of drip cups and sinks

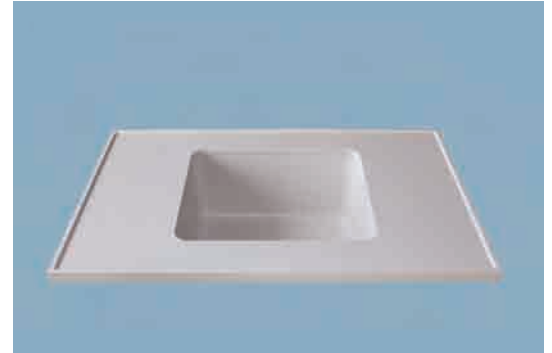
Following options are offered:

- Applying tap holes
- Applying sink cut-outs
- Special cuts and drillings
- Worktops without raised edge
- Special sink- and worktop dimensions

technical details:

- Polypropylene sheet, thickness 10mm supported by 20mm pp hollow profile. Solid pp marine edge around
- All joints are welded in the same colour
- Worktop thickness 30/37 mm (marine edge 7mm)
- Maximum length without joint: 3000 mm
- Complies with DIN 12916

For sinks fitment: see page 114



Article	Description		
32-10060	Polypropylene worktop made-to-order, width up to 600 mm, per m1		
32-10075	Polypropylene worktop made-to-order, width up to 750 mm, per m1		
32-10090	Polypropylene worktop made-to-order, width up to 900 mm, per m1		



Machining operations

Sink cut-outs

Fitment of sinks, sink included

Article	Description		
33-SP498	Fitment of oval drip cup 230x75mm, drip cup included		
33-SP3232	Fitment of sink 320x320x200mm, sink included		
33-SP4040	Fitment of sink 400x400x250mm, sink included		
33-SP5040	Fitment of sink 500x400x250mm, sink included		

Tap holes

Tap hole in polypropylene worktops

Article	Description		
33-K	Tap hole up to \varnothing 100 mm		

Drainage grooves

Drainage grooves in polypropylene worktop

Article	Description		
33-A	Set of drainage grooves at one side of a sink, length 400 mm		

Cut-outs

Corner- or column cut-out in polypropylene worktop

Article	Description		
33-R	Corner- or column cut-out according to your drawing		



Accessories

Brackets

Pair of brackets

Article	Description	Dimension	colour
51-3350G	Pair of brackets for polypropylene worktops	330x500mm	galvanised
51-3350W	Pair of brackets for polypropylene worktops	330x550mm	white



Sink units

Polypropylene sink unit

This sink unit is completely seamless due to the injection-moulding production process

Colour: off-white



Seamless

- Good chemical resistance
- High quality, pleasant design
- Small dimensional tolerance
- Lightweight
- Easy to install

Article	Description	Dimension	
32-1275	Polypropylene sink unit with sink 500x400x300mm	1200x750mm	
32-1560	Polypropylene sink unit with sink 500x400x300mm	1500x600mm	



Worktops without sink

Polypropylene worktop

This worktop is completely seamless due to the injection-moulding production process

Colour: off-white

raised edge around

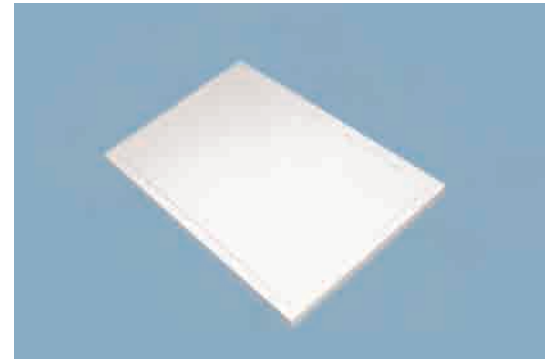
Good chemical resistance

High quality, pleasant design

Small dimensional tolerance

Lightweight

Easy to install



Article	Description	Dimension	
32-P1275	Worktop without sink	1200x750mm	
32-P1875	Worktop without sink	1800x750mm	



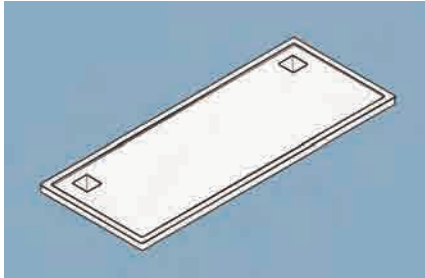
Worktops with drip cups

Polypropylene worktop

This worktop is completely seamless due to the injection-moulding production process

Drip cups are welded under the worktop

Colour: off-white



One or two drip cups

Good chemical resistance

High quality, pleasant design

Small dimensional tolerance

Lightweight

Easy to install

Article	Description	Dimension	
32-12151L	Worktop with drip cup, 100x100x90mm, left back	1200x750mm	
32-12151M	Worktop with drip cup, 100x100x90mm, middle back	1200x750mm	
32-12151R	Worktop with drip cup, 100x100x90mm, right back	1200x750mm	
32-12151T	Worktop with 2 drip cups, 100x100x90mm, left and right back	1200x750mm	
32-12315L	Worktop with drip cup, 250x100x130mm, left back	1200x750mm	
32-12315M	Worktop with drip cup, 250x100x130mm, middle back	1200x750mm	
32-12315R	Worktop with drip cup, 250x100x130mm, right back	1200x750mm	
32-12315T	Worktop with 2 drip cups, 250x100x130mm, left and right back	1200x750mm	
32-18151L	Worktop with drip cup, 100x100x130mm, left back	1800x750mm	
32-18151M	Worktop with drip cup, 100x100x130mm, middle back	1800x750mm	
32-18151R	Worktop with drip cup, 100x100x130mm, right back	1800x750mm	
32-18151T	Worktop with 2 drip cups, 100x100x130mm, left and right back	1800x750mm	
32-18315L	Worktop with drip cup, 250x100x130mm, left back	1800x750mm	
32-18315M	Worktop with drip cup, 250x100x130mm, middle back	1800x750mm	
32-18315R	Worktop with drip cup, 250x100x130mm, right back	1800x750mm	
32-18315T	Worktop with 2 drip cups, 250x100x130mm, left and right back	1800x750mm	



Worktops with sinks

Polypropylene worktop

This worktop is completely seamless due to the injection-moulding production process

Sinks are welded under the worktop

Colour: off-white

One or two sinks

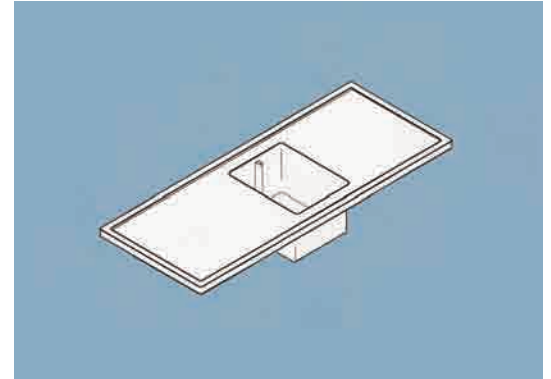
Good chemical resistance

High quality, pleasant design

Small dimensional tolerance

Lightweight

Easy to install



Article	Description	Dimension	
32-12332L	Worktop with sink, 300x300x200mm, left back	1200x750mm	
32-12332M	Worktop with sink, 300x300x200mm, middle back	1200x750mm	
32-12332R	Worktop with sink, 300x300x200mm, right back	1200x750mm	
32-12332T	Worktop with 2 sinks, 300x300x200mm, left and right back	1200x750mm	
32-12443L	Worktop with sink, 400x400x300mm, left back	1200x750mm	
32-12443M	Worktop with sink, 400x400x300mm, middle back	1200x750mm	
32-12443R	Worktop with sink, 400x400x300mm, right back	1200x750mm	
32-12443T	Worktop with 2 sinks, 400x400x300mm, left and right back	1200x750mm	
32-12543L	Worktop with sink, 500x400x300mm, left back	1200x750mm	
32-12543M	Worktop with sink, 500x400x300mm, middle back	1200x750mm	
32-12543R	Worktop with sink, 500x400x300mm, right back	1200x750mm	
32-12543T	Worktop with 2 sinks, 500x400x300mm, left and right back	1200x750mm	
32-18332L	Worktop with sink, 300x300x200mm, left back	1800x750mm	
32-18332M	Worktop with sink, 300x300x200mm, middle back	1800x750mm	
32-18332R	Worktop with sink, 300x300x200mm, right back	1800x750mm	
32-18332T	Worktop with 2 sinks, 300x300x200mm, left and right back	1800x750mm	
32-18443L	Worktop with sink, 400x400x300mm, left back	1800x750mm	
32-18443M	Worktop with sink, 400x400x300mm, middle back	1800x750mm	
32-18443R	Worktop with sink, 400x400x300mm, right back	1800x750mm	
32-18443T	Worktop with sink, 400x400x300mm, left and right back	1800x750mm	
32-18543L	Worktop with sink, 500x400x300mm, left back	1800x750mm	
32-18543M	Worktop with sink, 500x400x300mm, middle back	1800x750mm	
32-18543R	Worktop with sink, 500x400x300mm, right back	1800x750mm	
32-18543T	Worktop with sink, 500x400x300mm, left and right back	1800x750mm	





Technical details KeraLab Laborkeramik (Systemceram)

Chemical Resistance

KeraLab worktops and sinks are characterised by its high density and an exceptional load-bearing capacity. The dense Siershahner blue clay is fired in industrial ovens at a temperature of over 1200°C. KeraLab stoneware is resistant to all acids, with the exception of hydrofluoric acid and fuming sulphuric acid (Oleum).

Mechanical Resistance

Cutting, scratching, bumping... the special quality of the basic material in combination with the particular characteristics of the glazing allow it to withstand all these kind of mechanical attacks.

Thermal (shock) resistance

The worktops are highly resistant to thermal exposure. This is demonstrated, for example, by using a bunsen burner on the worksurface. This thermal attack will not affect the worktop.

Design

The design of KeraLab worktops and sinks is focussed on functionality and durability.

On top of that, SystemCeram distinguishes it selves from other suppliers in the almost unlimited flexibility in production and design. The CAD-controlled milling technology enables SystemCeram to produce high-grade individualised worktops, with only smallest tolerances. Within the maximum dimension of 2000x990mm, all kinds of dimensions, cut-outs, raised levels etc. are possible.

Matching sinks are available for inset-, undermount- or wallmount installation.

The KeraLab laboratory ceramics meet the highest international performance standards and rules.

Material

Stoneware (chemo-technical stoneware) according to DIN 28062, materials table 1.1.4, DECHEMA materials table, Group 71, page 1 and DIN 40685, type KER 111. Acid resistance according to DIN 51102.

Standard colours are white (Polar) and light grey (Alu). Other colours are available on request.

Production

The large-size laboratory benchtops and fume-cupboard worktops are produced according to DIN 12916. The maximum dimension in one piece is 2000 x 990mm. Laboratory worktops consisting of several parts are produced according to customer's drawings and are pre-assembled before delivery.

Specifications

Capacity: At least 5 l/m², referred to the net surface

Worktop thickness: 35mm ± 2mm inclusive raised edge

Raised edge: Height 7mm ± 1mm

Tolerances in length/width: Opposite uncut edges ± 1%

Opposite cut and uncut edge ± 0,3%

Opposite cut edges ± 1mm

Connecting edges: Difference in height max. 2mm

Joint widths: Maximum 5mm



Raised edges:

Standard raised edge

Uncut edges have a minimum radius of 3mm. Top level of the raised edges have a minimum width of 10mm. Angle towards the flat surface is 45°.



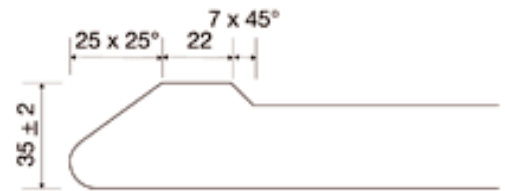
Rounded front edge

For optimum airflow in fume cupboards. The side edges and back-edge have a standard raised edge.



Sloping raised front edge

For optimum airflow in fume cupboards. The side edges and back-edge have a standard raised edge.



Allia ceramic slabs (modular)

Allia ceramic slabs are available in sizes of 600 x 600 mm and 600 x 750 mm. These slabs with a thickness of 30mm are ideal for a quick, easy and cost-effective fitting or re-fitting of laboratory benches.

Characteristics:

- Excellent chemical resistance
- A good heat resistance
- Completely non-electrostatic
- Easy to install
- Modular system
- A thick white enamel glaze with a gloss finish

Keraion ceramic laboratory tiles

Keraion tiles are especially suitable to use as a worksurface for laboratory worktops.

Keraion tiles have a sublime surface hardness, an excellent chemical resistance and are heat resistant.

All Keraion tiles have a white glazed surface. The tiles can be supplied loose. Tiled worktops, ready-to-install, can be supplied as well.

Hydrotect

Hydrotect surface refinement for ceramic tiles can be added to all Keraion tiles. Hydrotect is a surface treatment which is capable of decomposing micro-organisms such as e.g. bacteria, fungi, algae, moss or germs. The surface can be cleaned very easily. Odours are also eliminated quickly and thoroughly.

Hydrotect is a patented treatment which is based on the principle of the photocatalysis.



Technical details polypropylene worktops

Polypropylene worktops have a high chemical resistance (for instance resistant against hydrofluoric acid) and are heat resistant up to 110°C. The inherent characteristics of polypropylene make these worktops very easy to clean, as dirt does not stick easily to this material. Polypropylene is a soft material and therefore relatively friendly for glassware.

Tops made to order

These worktops can be produced in any requested dimension. As a standard, the worktops are produced with a marine edge around, but they can also be produced flat without marine edge.

Following options are available; integration of polypropylene sinks and drip cups, drainers, tapholes and special cuts according to specification.

Polysink

A modular range of polypropylene worktops with a high-quality finish. These worktops are completely seamless due to the injection-moulding production process.

Standard dimensions:

-1500 x 600 mm with a sink 500 x 400 x 300mm in the middle

-1200 x 750 mm with a sink 500 x 400 x 300mm on the left- or the right-hand side

These worktops are available in the colour off-white.





Drop-in sinks

The sinks are glazed internally
 Top side of the flange is glazed
 The edges are cut to measure

With standpipe

Supplied inclusive PP waste fitting with strainer and overflow, connection 1 1/2"

Inclusive polypropylene standpipe

technical details:

- Material characteristics according to DIN 28062, table of materials 1.1.4
- Tolerance: $\pm 1,5\%$



Article	Disription	Colour	Waste
48-1114A	Ceramic sink int.240x240x150mm,ext.295x294x230mm	alu (light grey)	1 1/2"
48-1114W	Ceramic sink int.240x240x150mm,ext.295x294x230mm	polar (white)	1 1/2"
48-2410A	Ceramic sink int.230x230x250mm,ext.295x295x265mm	alu (light grey)	1 1/2"
48-2410W	Ceramic sink int.230x230x250mm,ext.295x295x265mm	polar (white)	1 1/2"
48-2400A	Ceramic sink int.380x230x250mm,ext.445x295x265mm	alu (light grey)	1 1/2"
48-2400W	Ceramic sink int.380x230x250mm,ext.445x295x265mm	polar (white)	1 1/2"
48-2600A	Ceramic sink int.380x380x250mm,ext.445x445x265mm	alu (light grey)	1 1/2"
48-2600W	Ceramic sink int.380x380x250mm,ext.445x445x265mm	polar (white)	1 1/2"
48-2700A	Ceramic sink int.530x380x250mm,ext.595x445x265mm	alu (light grey)	1 1/2"
48-2700W	Ceramic sink int.530x380x250mm,ext.595x445x265mm	polar (white)	1 1/2"
48-2800A	Ceramic sink int.680x380x250mm,ext.745x445x265mm	alu (light grey)	1 1/2"
48-2800W	Ceramic sink int.680x380x250mm,ext.745x445x265mm	polar (white)	1 1/2"
48-2900A	Double ceramic sink int.395x380x250mm,ext.895x445x265mm	alu (light grey)	1 1/2"
48-2900W	Double ceramic sink int.395x380x250mm,ext.895x445x265mm	polar (white)	1 1/2"



Drop-in sinks



With overflow

Supplied inclusive PP waste fitting with strainer and overflow, connection 1 1/2"

technical details:

- Material characteristics according to DIN 28062, table of materials 1.1.4
- Tolerance: $\pm 1,5\%$

Article	Description	Colour	Waste
48-2430A	Ceramic sink int.380x230x250mm,ext.445x295x265mm	alu (light grey)	1 1/2"
48-2430W	Ceramic sink int.380x230x250mm,ext.445x295x265mm	polar (white)	1 1/2"
48-2630A	Ceramic sink int.380x380x250mm,ext.445x445x265mm	alu (light grey)	1 1/2"
48-2630W	Ceramic sink int.380x380x250mm,ext.445x445x265mm	polar (white)	1 1/2"
48-2730A	Ceramic sink int.530x380x250mm,ext. 595x445x265mm	alu (light grey)	1 1/2"
48-2730W	Ceramic sink int.530x380x250mm,ext. 595x445x265mm	polar (white)	1 1/2"
48-2830A	Ceramic sink int.680x380x250mm,ext. 595x445x265mm	alu (light grey)	1 1/2"
48-2830W	Ceramic sink int.680x380x250mm,ext. 595x445x265mm	polar (white)	1 1/2"



Undermount installation

The sinks are glazed internally
 Top side of the flange is unglazed
 The edges are cut to measure

With standpipe

Supplied inclusive PP waste fitting with strainer, connection 1 1/2"
 Inclusive polypropylene standpipe

technical details:

- Material characteristics according to DIN 28062, table of materials 1.1.4
- Tolerance: $\pm 1,5\%$



Article	Description	Colour	Waste
48-1114SA	Ceramic sink int.240x240x150mm,ext.295x294x230mm (without standpipe)	polar (white)	1 1/2"
48-1114SW	Ceramic sink int.240x240x150mm,ext.295x294x230mm (without standpipe)	alu (light grey)	1 1/2"
48-2650A	Ceramic sink int.380x380x250mm,ext.470x475x265mm	alu (light grey)	1 1/2"
48-2650W	Ceramic sink int.380x380x250mm,ext.470x475x265mm	polar (white)	1 1/2"
48-2750A	Ceramic sink int.530x380x250mm,ext.620x475x265mm	alu (light grey)	1 1/2"
48-2750W	Ceramic sink int.530x380x250mm,ext.620x475x265mm	polar (white)	1 1/2"
48-2850A	Ceramic sink int.680x380x250mm,ext.775x475x265mm	alu (light grey)	1 1/2"
48-2850W	Ceramic sink int.680x380x250mm,ext.775x475x265mm	polar (white)	1 1/2"
48-6264A	Ceramic sink int.400x400x300mm,ext.470x475x320mm	alu (light grey)	1 1/2"
48-6264W	Ceramic sink int.400x400x300mm,ext.470x475x320mm	polar (white)	1 1/2"
48-6274A	Ceramic sink int.500x400x300mm,ext.570x475x320mm	alu (light grey)	1 1/2"
48-6274W	Ceramic sink int.500x400x300mm,ext.570x475x320mm	polar (white)	1 1/2"
48-6294A	Ceramic sink int.600x400x300mm,ext. 670x475x320mm	alu (light grey)	1 1/2"
48-6294W	Ceramic sink int.600x400x300mm,ext. 670x475x320mm	polar (white)	1 1/2"
48-6284A	Ceramic sink int.800x400x300mm,ext.870x475x320mm	alu (light grey)	1 1/2"
48-6284W	Ceramic sink int.800x400x300mm,ext. 870x475x320mm	polar (white)	1 1/2"
48-2950A	Double ceramic sink 2 x int.395x380x250mm,ext.925x470x265mm	alu (light grey)	1 1/2"
48-2950W	Double ceramic sink 2 x int.395x380x250mm,ext.925x470x265mm	polar (white)	1 1/2"



Other types



Suspension sinks

Supplied inclusive PP waste fitting with strainer and overflow, connection 1 1/2"

technical details:

- Material characteristics according to DIN 28062, table of materials 1.1.4
- Glazing is applied on the inside of the sink, on top of the flange and on the edges

Article	Description	Colour	Waste
48-6331A	Ceramic sink int.405x275x260mm,ext.600x530x285/395mm	alu (light grey)	1 1/2"
48-6331W	Ceramic sink int.405x275x260mm,ext.600x530x285/395mm	polar (white)	1 1/2"



Service-unit sinks

Supplied inclusive PP waste fitting with strainer and overflow, connection 1 1/2"

technical details:

- Material characteristics according to DIN 28062, table of materials 1.1.4
- Glazing is applied on the inside of the sink, on top of the flange and on the edges

Article	Description	Colour	Waste
48-3020A	Ceramic service-unit sink int.300x200x200mm,ext.408x298x220mm	alu (light grey)	1 1/2"
48-3020W	Ceramic service-unit sink int.300x200x200mm,ext.408x298x220mm	polar (white)	1 1/2"
48-9734A	Ceramic service-unit sink int.380x180x220mm,ext.600x300x250mm	alu (light grey)	1 1/2"
48-9734W	Ceramic service-unit sink int.380x180x220mm,ext.600x300x250mm	polar (white)	1 1/2"



Drip cups

Drop-in installation

These drip cups are glazed internally as well as on top of the flange
 The edges are cut to measure
 Connection: \varnothing 65mm ceramic tail
 Inclusive ceramic strainer \varnothing 55 mm

technical details:

- Material characteristics according to DIN 28062, table of materials 1.1.4.

available as option:

contraction sleeve, see page 140



Article	Description	Colour	Waste
48-1001A	Ceramic drip cup int.100x100x150mm,ext.145x145x235mm	alu (light grey)	\varnothing 65 mm
48-1001W	Ceramic drip cup int.100x100x150mm,ext.145x145x235mm	polar(white)	\varnothing 65 mm
48-1101A	Ceramic drip cup int.245x95x150mm,ext.295x145x230mm	alu (light grey)	\varnothing 65 mm
48-1101W	Ceramic drip cup int.245x95x150mm,ext.295x145x230mm	polar (white)	\varnothing 65 mm

Undermount installation

These drip cups are glazed internally
 Top side of the flange is unglazed
 The edges are cut to measure
 Connection: PP waste fitting or ceramic tail \varnothing 65mm
 Inclusive strainer

technical details:

- Material characteristics according to DIN 28062, table of materials 1.1.4.

available as option:

contraction sleeve, see page 140

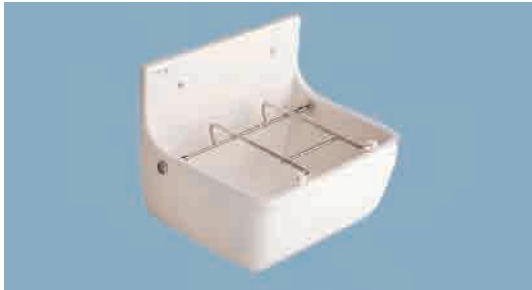


Article	Description	Colour	Waste
48-1211A	Ceramic drip cup round int.100x120mm,ext.135x200mm	alu (light grey)	\varnothing 65 mm
48-1211W	Ceramic drip cup round int.100x120mm,ext.135x200mm	polar (white)	\varnothing 65 mm
48-1215A	Ceramic drip cup oval int.250x100x85mm,ext.285x135x100mm	alu (light grey)	1 1/2"
48-1215W	Ceramic drip cup oval int.250x100x85mm,ext.285x135x100mm	polar (white)	1 1/2"
48-1213A	Ceramic drip cup oval int.410x100x120mm,ext.445x135x200mm	alu (light grey)	\varnothing 65 mm
48-1213W	Ceramic drip cup oval int.410x100x120mm,ext.445x135x200mm	polar (white)	\varnothing 65 mm
48-1245A	Ceramic drip cup oval int.395x70x95mm,ext.430x100x160mm	alu (light grey)	\varnothing 65 mm
48-1245W	Ceramic drip cup oval int.395x70x95mm,ext.430x100x160mm	polar (white)	\varnothing 65 mm



Suspension sinks

Finish: white glazed
 Excellent chemical resistance
 Excellent heat resistance
 All visible sides are glazed
 Supplied inclusive 1 1/2" polypropylene waste fitting



Finish: white glazed

technical details:
 - Inclusive 2 fixing holes

available as option:
grating: see page 144
pair of brackets: see page 143

Article	Description	Colour	Waste
41-4433	Suspension sink 440 x 330 x 170/350 mm (external dimension)	white	1 1/2"



Arnhem

Finish: white glazed with rubber protective pad
 Inclusive integrated overflow

available as option:
grating: see page 144
pair of brackets: see page 143

Article	Description	Colour	Waste
41-4636	Suspension sink 460x365x220 mm (external dimension)	white	1 1/2"
41-6146	Suspension sink 610x460x257 mm (external dimension)	white	1 1/2"



Drop-in / drop-on sinks

Finish: white glazed
 Excellent chemical resistance
 Excellent heat resistance
 All visible sides are glazed

Rectangular

Suitable for drop-in installation
 Inclusive polypropylene waste fitting 1 1/2"



Article	Description	Colour	Waste
41-2910	Ceramic sink ext..320x320x210mm,int.280x280x195mm	white	1 1/2"
41-2970	Ceramic sink ext.600x450x300mm,int.520x365x280mm with overflow	white	1 1/2"
41-2980	Ceramic sink ext.450x450x230mm,int.360x365x210mm with overflow	white	1 1/2"

Oval

Suitable for drop-on installation
 Inclusive 1 1/2" waste fitting and plug



Article	Description	Colour	Waste
41-1425	Ceramic oval sink 555x465x165 mm (external dimension)	white	1 1/2"



Shallow sinks

Finish: white glazed
 Excellent chemical resistance
 Excellent heat resistance
 All visible sides are glazed



Single sink

Inclusive 1 1/2" polypropylene waste fitting
 Inclusive overflow

Article	Description	Colour	Waste
41-3390	Ceramic sink 600x455x180mm (external dimension)	white	1 1/2"



Double sink

Inclusive 1 1/2" polypropylene waste fitting
 Inclusive overflow

Article	Description	Colour	Waste
41-3360	Double ceramic sink 920x560x205mm (external dimension)	white	1 1/2"



Sink and drainer

Ceramic sink and drainer
 Dimension: 1000 x 500 x 150 mm (external dimension)
 Sink dimension: 560 x 450 x 130 mm
 Inclusive 1 1/2" polypropylene waste fitting

Article	Description	Colour	Waste
41-3540L	Ceramic sink with drainer on left-hand side	white	1 1/2"
41-3540R	Ceramic sink with drainer on right-hand side	white	1 1/2"



Deep sinks

Finish: white glazed
With integrated overflow
Excellent chemical resistance
Excellent heat resistance
All visible sides are glazed

Single sink

With integrated overflow
Inclusive 1 1/2" polypropylene waste fitting



Article	Description	Colour	Waste
41-3030	Ceramic sink ext.600x500x380mm,int.560x460x340mm	white	1 1/2"



Troughs

Finish: white glazed
Excellent chemical resistance
Excellent heat resistance
All visible sides are glazed



Trough

Two more troughs can be coupled easily with connection slabs
Inclusive 1 1/2" polypropylene waste fitting

*available as option:
pair of brackets: see page 143*

Article	Description	Colour	Waste
41-3100	Ceramic trough 950x330x160mm (external dimension)	white	1 1/2"
51-3090	Ceramic connection slab for trough 41-3100	white	



Drop-on / undermount sinks

Kappa(-Plus)

Polypropylene sink
 Suitable for drop-on as well as for undermount installation
 Kappa sinks are vacuum-formed sinks
 Kappa-Plus sinks are injection-moulded, and have a guaranteed wall-thickness of 3,8mm
 Waste connection 1 1/2"
 Inclusive PP strainer

available options:
standpipe: see page 142
fixing set: see page 141
overflow assembly: see page 142



Article	Description	Colour	RAL
42-3232P	Kappa-Plus sink int. 320x320x200mm	beige/grey	7032
42-3232PG	Kappa-Plus sink int. 320x320x200mm	light grey	7035
42-4030G	Kappa sink int. 400x300x250mm	light grey	7035
42-4040P	Kappa-Plus sink int. 400x400x250mm	beige/grey	7032
42-4040PB	Kappa-Plus sink int. 400x400x250mm	black	
42-4040PG	Kappa-Plus sink int. 400x400x250mm	light grey	7035
42-4545	Kappa sink int. 450x450x250mm	beige/grey	7032
42-4545G	Kappa sink int. 450x450x250mm	light grey	7035
42-5040P	Kappa-Plus sink int. 500x400x250mm	beige/grey	7032
42-5040PG	Kappa-Plus sink int. 500x400x250mm	light grey	7035
42-6045	Kappa sink int. 600x450x250mm	beige/grey	7032
42-6045G	Kappa sink int. 600x450x250mm	light grey	7035

Gamma

Polypropylene sink
 Suitable for undermount installation
 Waste connection 1 1/2"
 Inclusive PP strainer

available options:
standpipe: see page 142



Article	Description	Colour	RAL
42-2525	Polypropylene sink int. 250x250x200mm	beige/grey	7032
42-2525PE	HDPE sink int. 250x250x200mm	black	
42-3015	Polypropylene sink int. 300x163x230mm	beige/grey	7032
42-3015G	Polypropylene sink int. 300x163x230mm	light grey	7035
42-3015PE	HDPE sink int. 300x163x230mm	black	
42-3085	Polypropylene sink int. 300x85x140mm	light grey	7035
42-4010	Polypropylene sink int. 400x100x150mm	beige/grey	7032



Suspension sinks



Delta

Polypropylene sink
Waste connection 1 1/2"
Inclusive PP strainer
Suitable for wall-mounting

available options:
brackets: see page 142
standpipe: see page 142

Article	Description	Colour	RAL
42-1347G	Suspension sink dim. ext. 565x475x420mm, int. 415x360x235mm	light grey	7035



Service-unit sinks

Alpha en Sigma

Polypropylene sink and service-cover combination
Waste connection 1 1/2"
Suitable for drop-on installation
Inclusive PP strainer

available options: standpipe: see page 142



Article	Description	Colour	RAL
42-6030	Sink-unit Alpha 600x300x220mm	light grey	7035
42-6161G	Sink-unit Sigma 610x610x190 mm	light grey	7035



Drip cups



Round or oval

Suitable for drop-in as well as for undermount installation
Waste connection 1 1/2", inclusive nut
Integrated strainer
High chemical resistance

Article	Description	Colour	RAL
42-497	Polypropylene drip cup int. 150x70mm (oval)	black	
42-497G	Polypropylene drip cup int. 150x70mm (oval)	light grey	7035
42-498	Polypropylene drip cup int. 230x75mm (oval)	black	
42-498G	Polypropylene drip cup int. 230x75mm (oval)	light grey	7035
42-501	Polypropylene drip cup int. ø80mm	black	
42-500	Polypropylene drip cup int. ø140mm	black	



Drop-in undermount installation

Due to the production process this dripcup is seamless

Colour: off-white

With integrated overflow

Outlet: 1½"

Marks of Polysink products are:

High chemical resistance

High quality, fine design

Exact measures

Lightweight

Easy to mount

Polypropylene is a soft material, by that it is relative secure for glass-work

Without overflow

technical details:

- Inclusive strainer



Article	Description	Colour	Waste
43-3030W	Polypropylene sink 300x300x200mm with plug	off-white	1 1/2"
43-1010W	Polypropylene drip cup 100x100x100mm	off-white	1 1/2"
43-2510W	Polypropylene drip cup 250x100x150mm	off-white	1 1/2"

With overflow

technical details:

- Inclusive plug with chain
- Inclusive strainer



Article	Description	Colour	Waste
43-4040W	Polypropylene sink 400x400x300mm	off white	1 1/2"
43-5040LW	Polypropylene sink 500x400x300mm	off-white	1 1/2"



Ceramic sinks / drip cups

Contraction sleeve

For connection of drip cups with ceramic tail

Article	Description		
70-152.155	Contraction sleeve 40/70		

Strainers

Article	Description	Colour	
40-860	Ceramic strainer ø 55 mm	white	



Accessories for sinks

Fixing set Kappa-Plus

For drop-on installation of Kappa-Plus sinks

technical details:

- Consists of:
- 4 x galvanised threaded rods, fixed at the bottom of the flange
- 4 x mounting plate
- 4 x bolt



Article	Description		
51-0010P	Fixing set for drop-on installation of Kappa-Plus sinks		

Fixing set Kappa

For drop-on installation of Kappa sinks

technical details:

- 4 x polypropylene cam, welded at the bottom of the flange
- 4 x mounting plate
- 4 x bolt



Article	Description		
51-0010	Fixing set for drop-on installation of Kappa sinks		

Polypropylene strainers

Strainer for PP/HDPE sinks



Article	Description	Colour	
51-005	Strainer for PP/HDPE sinks	black	
51-005BG	Strainer for PP/HDPE sinks	beige/grey	7032
51-005G	Strainer for PP/HDPE sinks	light grey	7035



Accessories for sinks



Standpipes

Polypropylene standpipe, suitable for use in Kappa(-Plus), Gamma, Delta, Alpha en Sigma sinks

Article	Description	Colour	RAL
51-104P	Standpipe 180 mm for PP sinks	beige/grey	7032
51-136P	Standpipe 180 mm for PP sinks	light grey	7035
51-136PB	Standpipe 180 mm for PP sinks	black	
51-103P	Standpipe 245 mm for PP sinks	beige/grey	7032
51-135P	Standpipe 245 mm for PP sinks	light grey	7035
51-135PB	Standpipe 245 mm for PP sinks	black	



Overflow assembly

Overflow assembly for Kappa-Plus sinks

technical details:

- Material: polypropylene, colour: black
- Length of tube approx 450 mm
- Waste connection 1 1/2"
- Overflow int. ø23 mm

Article	Description		
51-130P	Overflow assembly for polypropylene Kappa-Plus sinks		

Brackets

Brackets for suspension sink Delta

Article	Description	Colour	
51-2540W	Pair of brackets for suspension sink Delta	white	
51-2540G	Pair of brackets for suspension sink Delta	galvanised	



Brackets

Article	Description		
51-4150	Pair of brackets for suspension sink Arnhem 41-4636	white	
51-4168	Pair of brackets for suspension sink Arnhem 41-6146	white	
51-5701	Pair of brackets for trough 41-3100	white	



Bratings

Article	Description		
51-4010	Grating for suspension sink Arnhem 41-4636		
51-4028	Grating for suspension sink Arnhem 41-6146		
51-5991	Grating for suspension sink 41-4433		



KeraLab ceramic sinks (Systemceram)

High-quality ceramic sinks with excellent mechanical and chemical resistance.

These sinks can be combined with KeraLab ceramic worktops, or can be integrated in other worktop materials.

The range consists of:

- sinks and drip cups for undermount installation
- sinks and drip cups for drop-in installation
- wall-mounted sinks
- sinks for service-units

The standard colours are white and light grey. Other colours are available on request. Material specifications of these sinks can be found in chapter 3 (worktops).

Fireclay (ceramic) sinks

Fireclay sinks are protected with a thick glaze cover, which gives an excellent resistance to chemicals.

The sinks also have a good temperature and stain resistance.

The colour of these sinks is white.

Several shapes and dimensions are available.

Labstream sinks

Labstream sinks are made of polypropylene.

These sinks are characterized by a pleasant design, are easy to install and offer a good chemical resistance.

Polypropylene is a relatively soft material and therefore user-friendly, as glasswork will not break easily. Polypropylene is also very easy to clean.

Labstream sinks are heat resistant up to a temperature of approx. 100°C.

The product range consists of:

- Kappa sinks - suitable for drop-on as well as for undermount installation
- Kappa-Plus sinks - high-quality injection moulded sinks, suitable for drop-on as well as for undermount installation
- Gamma sinks - suitable for undermount installation
- Delta suspension sink
- Alpha en Sigma service-unit sinks
- Drip cups - round and oval shaped

The standard colours are light grey (RAL7035), beige-grey (RAL7032) and black. Other colours can be offered on request.

Polysink sinks

A sturdy design and a good chemical resistance are the features of the range of Polysink sinks and drip cups. They are suitable for undermount- as well as for drop-in installation.

Polysink sinks are made of polypropylene, by means of injection moulding. The colour of these sinks is off-white





Separators

Separators for sediments

Easy maintenance, robust design in polypropylene
 Easy to install with 2 quick-connect couplings
 Cover is locked with 2 fasteners
 Bucket can be taken out and cleaned easily
 Supplied with integrated water seal

technical details:

- Material: polypropylene
- Inclusive: 2 quick-connect couplings ø50 mm



Article	Description	Dimension	
50-0850	Separator for sediments, effective capacity approx. 6,5 litre, total capacity approx. 10 litre	ø320,hg325 mm	
50-0900	Separator for sediments, effective capacity approx. 18 litre, total capacity approx. 25 litre	ø420,hg400 mm	

Neutralisation unit

Neutralisation of acidulous waste water by means of magnesium compounds
 Easy to install
 Robust design in polypropylene
 Easy maintenance
 Inclusive integrated support with castors
 Required filling: 12,5 kg neutralisation grains
 Supplied with integrated water seal

technical details:

- Material: polypropylene
- Connection: inlet and outlet 1,5"



Article	Description	Dimension	
50-0040	Neutralisation unit for neutralisation of acidulous wastewater	ø400,hg400 mm	
51-0060	12,5 kg neutralisation grains Hydrolit-MG for neutralisation unit		



Separators



Supports

Stainless steel support with castors for separators

technical details:

- Material: Stainless steel, plastic castors
- Height approx. 65 mm

Article	Description	Dimension	
51-0070	Support with castors for separator 50-0850 and 50-0900	350x350mm	



Traps

Universal traps

Polypropylene universal S/P trap (outlet either in vertical or horizontal position)

technical details:

- Material: polypropylene



Article	Description	Colour	
52-205	Universal trap, inlet 1,5", outlet ø50mm	black	
52-250	Universal trap, inlet ø50mm, outlet ø50mm	black	
52-253	Universal trap, inlet ø40mm, outlet ø50mm	black	

Bottle traps

Polypropylene bottle trap

technical details:

- Material: polypropylene



Article	Description	Colour	
52-201	Bottle trap, inlet 1,5", outlet ø40mm	black	
52-202	Bottle trap, inlet 1,5", outlet 1,5" mech. joint	black	
52-203	Bottle trap with clear cup, inlet 1,5", outlet ø40mm	black	
52-204	Bottle trap with clear cup, inlet 1,5", outlet 1,5" mech. joint	black	



Traps



Dilution trap with glass base

For collection of solids and visual inspection of the waste water

technical details:

- Upper part: polyethylene
- Base: borosilicate glass
- Connection: 1,5" x \varnothing 50 mm

Article	Description	Colour	
50-402	Dilution trap with 2,3 litre glass base	black	
50-403	Upper part for dilution trap 50-402	black	
50-404	Glass base 2,3 litre for dilution trap 50-402		
50-405	Seal for dilution trap 50-402		



Dilution trap

On this trap you can connect up to 3 drain pipes, which will be combined to 1 drain-pipe

Capacity approx. 4,5 litre

technical details:

- Inlet: 3 x 1,5" female
- Outlet: 1 x 1,5" male
- Height 240 mm
- Diametre \varnothing 240 mm

Article	Description	Colour	
50-226	Dilution trap with up to 3 inlet connections	black	



Fittings

Straight couplings

technical details:

- Material: polypropylene



Article	Description	Colour	
52-214	Straight coupling $\varnothing 40\text{mm} \times \varnothing 40\text{mm}$	black	
52-215	Straight coupling $\varnothing 50\text{mm} \times \varnothing 50\text{mm}$	black	
52-251	Waste connection 1,5" x $\varnothing 50\text{mm}$	black	
52-252	Waste connection 1,5" x $\varnothing 40\text{mm}$	black	
52-240	Adaptor 1,5" x 1,5" mech. joint	black	

T-pieces

technical details:

- Material: polypropylene



Article	Description	Colour	
52-217	T-piece $\varnothing 40\text{mm} \times \varnothing 40\text{mm} \times \varnothing 40\text{mm}$	black	
52-218	T-piece $\varnothing 50\text{mm} \times \varnothing 50\text{mm} \times \varnothing 50\text{mm}$	black	

Elbows 90 degrees

technical details:

- Material: polypropylene



Article	Description	Colour	
52-211	Elbow 90°, $\varnothing 40\text{mm} \times \varnothing 40\text{mm}$	black	
52-212	Elbow 90°, $\varnothing 50\text{mm} \times \varnothing 50\text{mm}$	black	



Waste fittings and standpipes



Waste fittings

technical details:

- Material: polypropylene

Article	Description	Length	Flange
52-208	Polypropylene waste fitting 1,5", large, without plug	110mm	ø85mm
52-209	Polypropylene waste fitting 1,5", small, without plug	55mm	ø70mm
52-221/316	Waste fitting 1,5" with flexible overflow and plug, stainless steel 316 flange		ø70mm
52-291	Bipartite waste fitting 1,5"with chrome plated brass flange		ø80mm
52-112	Bipartite waste fitting 1,5"with chrome plated brass body and stainless steel flange		ø60mm



Standpipes

Polypropylene standpipe, suitable for use in waste fitting 52-208 and 52-209

technical details:

- Material: polypropylene
- Diametre ø 45 mm

Article	Description	Colour	RAL
51-210	Standpipe short 210mm	grey	7040
51-113	Standpipe long 460mm	grey	7040



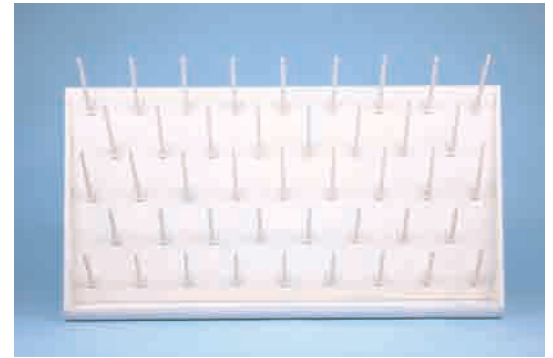
Pegboards

Labstream

Polypropylene pegboard with dripchannel and waste

technical details:

- Material: polypropylene



Article	Description	Dimension	Colour
51-4350G	Pegboard 28 pegs, with dripchannel and waste	600mmx450mm	light grey
51-4351G	Pegboard 43 pegs, with dripchannel and waste	900mmx450mm	light grey
51-4352G	Pegboard 58 pegs, with dripchannel and waste	1200mmx450mm	light grey



Several



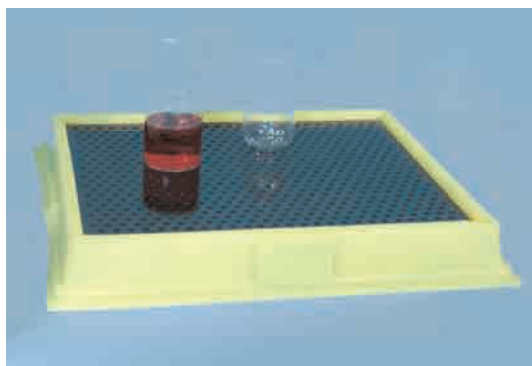
Waste bin

Suitable for wall mounting or mounting inside a cupboard
Inclusive wall bracket

technical details:

- Material: polypropylene
- External dimension: 280 x 240 x 330 mm (b x d x h)
- Internal dimension: 250 x 220 x 330 mm (b x d x h)

Article	Description	Colour	
51-1111	Waste bin, capacity 13 litre, chemical resistant	white	



Labtray

technical details:

- External dimension 630 x 560 x 90 mm
- Grate dimension 530 x 440 mm

Article	Description	Colour	
51-5350	Labtray 630x560x90mm, capacity approx. 10 litre	yellow / black	



Technical details Labstream

Labstream drainage products offer easy-to-integrate, efficient solutions for a sound disposal of waste water from a laboratory. The product range consists of:

- pegboards
- separators for sediments
- waste fittings, traps and couplings
- traps for special applications
- neutralisation units

The products are characterised by a high chemical resistance and an easy installation. The applied raw materials guarantee a long lifespan, even in demanding environments.



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From: Steendam lab furnishing supplies BV
Lichterweg 31, 8042 PW Zwolle, The Netherlands

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1. Definitions

The following definitions apply to these Conditions:

- Tender or Offer: any offer issued or made by or on behalf of the Supplier to the Other Party, also termed proposal;
- Supplier: each member of a branch organisation affiliated to the Vereniging by whom or on whose behalf the Conditions have been declared applicable to an agreement, their representatives, proxies and legal successors;
- Written/in writing: correspondence by fax or by regular post between the parties;
- Producer: the producer or manufacturer of the goods offered by Supplier to the Other Party;
- Vereniging: FHI, Federation of Technology Branches, entered in the Commercial Register of the Chamber of Commerce of Gooi-, Eem- en Flevoland under the number 40507574;
- Conditions: the FHI General Conditions of Delivery 2010 in question and its elements B and C;
- Other Party: each natural person, partnership, legal body or other entity that enters into or has entered into an agreement with a Supplier, or to whom an Offer or proposal is or has been made by or on behalf of a Supplier, or to whom or by whose order a delivery is or has been made by or on behalf of a Supplier, or by order of or for the benefit of whom one or more services is or has been performed by or on behalf of a Supplier.

2. Applicability of the Conditions, titles and language

2.1 These Conditions apply to all offers, legal relationships and agreements whereby the Supplier delivers goods and/or services of whatever nature to the Other Party. Departures from these Conditions will only be effective if expressly agreed in writing.

2.2 If one or more provisions in the Conditions is or becomes at any time fully or partly void or invalid, this shall not affect the remaining provisions in the Conditions.

2.3 The Supplier may during the existence of the legal relationship make requirements for communications between the parties or for legal transactions to take place via digital media.

2.4 The titles and the articles of these Conditions serve solely to simplify their comprehension and have no other significance. The titles may not in particular be used for the interpretation of these Conditions.

2.5 The Conditions written in the Dutch language have precedence over the Conditions translated into English or another language.

3. The offer and realisation of the agreement

3.1 Any Offer is without obligation unless a date for acceptance is given in the Tender.

3.2 The agreement is realised by a Written offer and a Written acceptance of this offer.

3.3 Any sources supplied by or on behalf of the Supplier such as price lists, brochures, catalogues, folders, websites and other data shall only be binding on the Supplier insofar as explicit reference is made in the proposal to data from these sources.

3.4 Insofar as the scope of the acceptance test – likewise the order – of the Other Party varies in any point from the offer made by the Supplier to the Other Party, the order shall only be realised at the time that the Supplier confirms the realisation and the content of the agreement in writing and thereby describes precisely the commitments of both parties arising from the agreement.

3.5 In the case of work or orders, for which in view of their nature and scope the Supplier does not or has not sent a Tender or proposal or confirmation of order, the agreement shall only be deemed to be realised from the time that the Supplier actually commences implementation of the agreement or commissions third parties to do so. In this case the invoice shall be deemed to be confirmation of order, which shall also be deemed to report the agreement correctly and fully.

3.6 The Supplier shall send one free copy of standard documentation such as industrial plans, descriptions, instructions and test certificates. The Other Party shall owe reasonable reimbursement to the Supplier for additional copies of such documentation.

3.7 The Other Party shall at the first request from the Supplier provide securities for the punctual satisfaction of his commitments from the agreement to the Supplier.

3.8 The Supplier is authorised to engage third parties for the implementation of the agreement and to charge the Other Party for the costs of this in accordance with the rates given in the Tender.

3.9 If no agreement is realised, the Other Party shall pay the Supplier any reasonable costs invoiced by the Supplier and necessary for making a proposal.

3.10 All information provided in connection with an offer to the Other Party including but not limited to in the form of brochures, catalogues, price lists, folders, correspondence and digital storage media and all data therein or thereby

provided including in the form of designs, drawings/illustrations, plans, concepts, models, samples, tables, schemes, databases or calculations shall expressly and exclusively remain the industrial or intellectual property of the Supplier.

4. Secrecy

4.1 The Other Party is forbidden to copy any information as defined above either wholly or partially and/or to make it known to third parties in whatever way and/or to allow it to be used by third parties and/or to sell it or place it at anybody's disposal.

4.2 The Other Party is only permitted to use the data and information insofar necessary for the fulfilment of the agreement. At the first request of the Supplier, and if the agreement is not realised or is cancelled, the Other Party must return all the materials, designs, calculations, information, data, etc., indicated here to the Supplier immediately.

5. Admentments

5.1 Any entire or partial amendment or cancellation of the agreement may only be made with prior Written agreement from the Supplier.

5.2 If the Supplier consents to such amendment or cancellation, the Other Party is obliged in each case to pay the Supplier for the costs of work already undertaken by the Supplier.

5.3 In the event of such amendment or cancellation the Supplier is permitted to invoice the Other Party for the related costs and to reestablish the delivery and lead times in relation to his commitments under the agreement.

6. Prices

6.1 If an offer is without obligation, the price details and rates contained therein shall also be without obligation

6.2 Prices are in euros and:

-based on purchase prices, wage rates, wage costs, social security and government costs, transport costs, insurance premiums and other costs prevailing on the date of Offer or (if no Offer or quotation is made) the date of the order;

-based on delivery ex Producer's works (in accordance with Incoterms);

-exclusive of VAT, import duties and other taxes, levies and duties;

-exclusive of the costs of packaging, loading and unloading, charges for removal, transport and insurance;

-exclusive of the costs of assembly, installation, composition, adjustment, calibration, and commissioning.

6.3 For offers that are without obligation and also if this proviso is included in a binding offer, the Supplier is entitled to adjust prices if the official currency rate at the time of delivery differs by more than 2% from the currency rate on the date on which the Tender or proposal is made, whereby the latter rate is set at 100.

6.4 For offers that are without obligation and also if this proviso is included in a binding offer, the Supplier is entitled to adjust prices if there is an increase in one or more of the factors that determine the cost price. The Supplier is obliged to take due account of existing applicable legal requirements, on the understanding that any future price increases of which the Supplier is aware on the date of the order confirmation should be specified in this order confirmation.

7. Risk

7.1 Where the Supplier delivers the goods from stock, the risk of the goods to be delivered by the Supplier to the Other Party transfers to the Other Party from the moment that they are set apart on behalf of the Other Party from the other stock articles in his warehouse.

7.2 Where the goods are shipped directly by the Producer or a third party on behalf of the Supplier, the risk of the goods to be delivered by the Supplier to the Other Party transfers to the Other Party, from the moment that they are loaded for transport to the agreed place of delivery.

7.3 Notwithstanding the parties' arrangements about the moment on which the risk transfers to the Other Party, loading and offloading, horizontal and vertical transport, and the assembly, installation, composition, adjustment, calibration and commissioning of the goods, shall likewise be for the risk of the Other Party even if it takes place before the

8. Delivery and delivery time

8.1 For orders or deliveries that do not exceed a specified amount and insofar as the Supplier calls on the Other Party, the Other Party shall owe the Supplier a reasonable amount for administration costs to be determined by the Supplier.

8.2 Irrespective of the moment at which the risk transfers to the Other Party, the moment of delivery shall be deemed to be the same as the moment on which the goods are offloaded or landed at the agreed place (actual transfer); this also holds good if the Supplier must assemble, install and/or commission the goods.

8.3 The Other Party must report any shortages, defects and damage in writing directly to the Supplier within 24 hours of the delivery and if nothing is reported then the goods will be regarded as having reached the Other Party in good condition, complete and without damage.

8.4 The Supplier is entitled to deliver in instalments (part-deliveries) and to invoice these instalments separately. The Other Party is obliged to settle the separate invoices in accordance with the provisions in Article 18 of these Conditions.

8.5 The Supplier is not obliged to be able to supply spare parts after a good is delivered to Other Party, unless this is expressly agreed between the parties and insofar as these parts are still available.

8.6 Lead times and delivery dates given in the Tender/proposal for commitments of the Supplier are not absolute deadlines. Delay shall therefore not arise until the Supplier has declared the Other Party in default and granted him a grace period to fulfil his commitments under the agreement.

8.7 The Supplier is obliged to observe the specified delivery time or delivery period as much as possible, yet shall never be liable if they are exceeded. When they are exceeded the Supplier is not obliged to provide any compensation for damages of whatsoever nature. Exceeding a delivery time or delivery period does not give the Other Party the right to terminate or to dissolve the agreement or to refuse to purchase goods. In cases where a delivery time or period is exceeded excessively the parties must consult with each other.

8.8 If goods are not purchased by the Other Party within the delivery time or period, or if the Other Party does not observe an agreed call period then the Supplier is entitled to invoice the Other Party for the goods in question and, furthermore, the Supplier is entitled to store these goods at its own discretion but wholly at the cost and risk of the Other Party. In the event the Other Party does not purchase or call within the agreed period, the Supplier may at his discretion demand fulfilment by the Other Party or dissolve the agreement, without prejudice to the right of the Supplier in either case to claim damages.

9. Transport and packing

9.1 The Supplier shall based on his experience determine the method of packaging, transport, shipment, etc., of goods, notwithstanding the provisions concerning the risk in Article 7.3 of these Conditions.

9.2 If the Other Party has specific wishes and insofar as the Supplier agrees to these wishes in relation to packaging and/or transport, also including relocation within the business or company site, the Other Party is obliged to settle the costs invoiced for this by the Supplier.

10. Force majeure (non-liaible failing)

10.1 None of the parties is obliged to fulfil any obligations, including any guarantee undertakings agreed between the parties, if he is prevented from doing so as a result of force majeure. Force majeure shall also be deemed to denote: (i) force majeure of subcontractors of the Supplier, (ii) failure to properly fulfil obligations by subcontractors that are stipulated by the Other Party, (iii) deficiency of items, equipment, software or materials from third parties whereby said use is stipulated by the Other Party, (iv) governmental actions, (v) electricity failure, (vi) failure of the Internet, service providers, computer network or telecommunication facilities, (vii) war, (viii) occupation, (ix) strike, (x) general transport problems and (xi) the unavailability of one or more members of staff, (xii) terrorist attacks or hostage taking, (xiii), epidemics and pandemics, (xiv) financial crisis, (xv) the non-functioning of the payment network of the banks concerned.

10.2 If a situation of force majeure endures for longer than ninety days, each of the parties shall have the right to dissolve the agreement in writing. Any work already carried out on the basis of the agreement shall in that case be settled pro rata, without the parties owing anything further to one another. The parties shall immediately make payment in connection with this settlement.

10.3 If the Supplier wishes to plead force majeure, he shall inform the Other Party of this as soon as practically possible. The consequences of force majeure shall come into effect from the moment that the eventuating circumstance, cause or incident has occurred.

10.4 If the Supplier is prevented by force majeure from fulfilling any commitments, on whatsoever legal basis, towards the Other Party and the force majeure is in the opinion of the Supplier temporary or provisional in nature, the Supplier is entitled to postpone implementation of the agreement until the circumstance that causes or caused the force majeure no longer applies.

10.5 If the Supplier, as a result of force majeure, is prevented from fulfilling his obligations with regard to one or more of his customers or buyers but not his obligations with respect to all his customers or buyers then the Supplier is entitled to decide himself which of the obligations will be fulfilled and for which customers or buyers as well as the order in which they will be fulfilled.

11. Guarantee/Service

11.1 With due observance to the provisions specified elsewhere in these Conditions the Supplier guarantees the quality of the materials used and their promised characteristics as well as the correct working of the goods provided by the Supplier in accordance with the accompanying product specifications.

11.2 This guarantee is valid only for new products for a period of twelve (12) months after delivery (including any "viewing period") to the Other Party. A guarantee for goods purchased by the Supplier from third parties is only given if and insofar as it is guaranteed by this third party.

11.3 Faults in any goods supplied which fall under the guarantee will, exclusively at the discretion of the Supplier, be rectified or the goods will be replaced if the faults, in the opinion of the Supplier and/or producer, are attributable to construction faults or faults/failings of the materials used as a result of which the goods are unusable by the Other Party for the purpose for which they can reasonably be thought of as intended

11.4 In principle, guarantee work will be performed within the business of the Supplier (for example, by his service department) and during normal working hours. Activities associated with guarantees will only be performed outside normal working hours if a separate service contract has been entered into and only when and insofar as this is specified in this service contract.

11.5 The Supplier is entitled to allow guarantee activities to be performed outside his own business if this, in the opinion of the Supplier, is in the best interest of these activities or if the performance of such activities within the business of the Supplier is not reasonably possible or desirable.

11.6 The Other Party must send goods for guarantee work to the Supplier franco. If the guarantee work is to be performed outside his own company then the Supplier is entitled to pass on the connected travel costs and expenses to the Other Party as well as any (special) costs of transport, packing and insurance and the costs of any testing equipment and materials used.

11.7 If it appears that the goods offered to the Supplier for rectification or repair exhibit no faults then the Other Party is obliged to settle all costs incurred by the Supplier.

11.8 All guarantee agreements lapse if the Other Party himself makes changes and/or repairs to the product supplied or allows them to be made, or if the good supplied has not been or is not being used or treated exactly according to the supplied or applicable (manufacturer's) directives or the user instructions, or is being used or treated injudiciously in any other way, or if a software change has been made in or with regard to the product by a party other than the Supplier, or if the good

supplied has been or is being used or applied for purposes other than for which it is intended, or if the good supplied has been or is being used in a way which the Supplier could not reasonably have expected.

11.9 No guarantee is provided for consumables.

11.10 If the Other Party fails to fulfil one or more of his obligations then the Supplier is released from his guarantee obligations.

11.11 Satisfying the guarantee obligation shall be deemed to be the only and complete compensation.

12. Right of retention and formation of an item

12.1 If and for so long as the Other Party has not satisfied his obligations towards the Supplier then the Supplier has the right to retain all goods in his possession which have come from the Other Party or have come on behalf of the Other Party, no matter the origin or reason.

12.2 In the event the Supplier exercises his right of retention in relation to certain goods, the Other Party has no right to any reimbursement in the event of full or partial destruction or loss of the goods and/or damage to the goods beyond the liable fault of the Supplier.

12.3 The risk for the goods remains with the Other Party throughout the period that the Supplier exercises his right of retention.

12.4 If the Other Party forms a new item from part-items delivered by the Supplier, the Other Party forms the new item for the Supplier until the Other Party has settled all sums owed on grounds of the agreement; in that case the Supplier has all rights as owner of the item thus formed until the Other Party settles in full.

13. Ownership reservation

13.1 Without prejudice to the provisions in Article 7 of these Conditions regarding the risk and the transfer thereof, all the goods supplied by or on behalf of the Supplier remain the property of the Supplier until the moment that the debt owed by the Other Party to the Supplier has been settled in full, this debt likewise including the amount that the Other Party has owed the Supplier since the realisation of the agreement inclusive of all interest and costs. For so long as the ownership of the goods supplied by or on behalf of the Supplier remains with the Supplier according to the provisions in this Article the Other Party is obliged to hold these goods separately from other goods in such a way that they can easily and clearly be identified as the goods of the Supplier.

13.2 In the case of non-payment by the Other Party of any amount due to the Supplier and furthermore when the agreement is ended, the Supplier will be entitled to demand the return of any goods for which ownership reservation applies and to take the measures associated with this, taking into account any payments already made for the goods without prejudice to the right of the Supplier to demand compensation for possible loss or damage. In the case of non-payment or termination of an agreement each claim which the Supplier has against the Other Party becomes immediately due.

13.3 At the first request from Supplier the Other Party must authorise the immediate return of the goods which have not yet been fully paid for, wherever these may be.

13.4 The Other Party is entitled to sell or to use goods on which there is an ownership reservation in favour of the Supplier within the framework of normal business operations; however, no right of security can be bestowed on these goods, while, with regard to these goods, the Other Party must not perform any actions or allow any actions to be performed which result in these goods becoming a part or element of one or more other goods. When goods with an ownership reservation still in favour of the Supplier are sold on, the Other Party is obliged to reserve ownership for himself and at the first

request from the Supplier to cede to the Supplier all demands against the debtor of the Other Party, up to the amount that the Other Party owes.

14. Liability of the Supplier

14.1 The total liability of the Supplier on account of a liable failing in the fulfilment of the agreement or for any other reason, including any failing in the fulfilment of a guarantee undertaking agreed between the parties, is limited to reimbursement of direct losses to a maximum sum of the price (excl. VAT) stipulated in the agreement.

If the agreement is primarily a term agreement with a term of more than one year, the price stipulated in the agreement shall be deemed to be the total reimbursements (excl. VAT) for one year.

In no case shall the total liability of the Supplier for direct losses, for whatsoever reason, amount to more than 500,000.00 (five hundred thousand euros).

14.2 The liability of the Supplier for losses for death, physical injury or material damage to items shall in total never amount to more than 500,000.00 (five hundred thousand euros).

14.3 Notwithstanding the provisions in the preceding clause, the liability of the Supplier is limited to the amount paid out or covered by the insurance.

14.4 The liability of the Supplier is excluded for:

- consequential or indirect losses;
- lost profits, lost economies, loss of goodwill, losses due to business stagnation;
- losses as a result of liability to customers of the Other Party;
- losses in relation to the use of items stipulated by the Other Party, including but not limited to installations, tools, machines, materials or data, information or software of third parties;
- losses in relation to the engagement of subcontractors stipulated by the Other Party Likewise excluded is the liability of the Supplier for the mutilation, destruction or loss of data or documentation.

14.5 The exclusions and restrictions of the liability of the Supplier, as described in the preceding clauses of this Article, shall not affect the other exclusions and restrictions of liability of the Supplier on the grounds of these Conditions.

14.6 The exclusions and restrictions indicated in Articles 14.1 to 14.5 lapse if and insofar as the losses are the consequence of intentional or deliberate recklessness of the Supplier's management.

14.7 Unless fulfilment by the Supplier is permanently impossible, the liability of the Supplier for liable failing in the fulfilment of an agreement shall only arise if the Other Party declares the Supplier in default in writing without delay, granting a grace period for the rectification of the failing, and the Supplier has still failed to meet his obligations after the period. Declaration of default must contain as full and detailed a description as possible of the failure so that the Supplier may respond adequately.

14.8 A condition for any right to compensation arising is always that the Other Party notifies the loss to the Supplier in writing as quickly as possible after it arises.

14.9 Any claim that the Other Party has on the Supplier shall lapse by the simple elapsing of twelve months from the date on which the claim arises, and in any case after the elapsing of three years from the delivery by the Supplier, irrespective of the legal grounds of the claim.

14.10 The Other Party exempts the Supplier from all losses arising from the liability of third parties owing to product liability as a result of a fault in a product, installation or system that is delivered by the Other Party to a third party and that partly consists of equipment, software or other materials delivered by the Supplier, unless and insofar as the Other Party proves that the loss is caused by the equipment, software or other materials.

14.11 The provisions in this Article and all other restrictions and exclusions of liability given in the Conditions shall also apply in favour of all (legal) persons on whom the Supplier calls in the implementation of the agreement and in favour of the concern of which he/she or they form(s) part.

14.12 With regard to goods and services which the Supplier has obtained from a third party, the (contractual and/or guarantee) provisions applicable to the agreement in question shall also apply to the agreement between the Supplier and the Other Party, if and insofar as the Supplier invokes this.

15. Claims

15.1 Notwithstanding the provisions in Article 8.3 the Supplier shall only accept claims for processing if it receives them from the Other Party in Written form within eight (8) days of delivery. For hidden faults, claims are only possible within the guarantee period.

15.2 Contrary to the provisions in Article 15.1 any claims with regard to goods for which a test or inspection takes place must be made immediately on the date of testing or inspection and at the place where this testing or inspection occurs and then confirmed at once to the Supplier in writing.

15.3 Claims can only be handled when the nature and grounds for the complaints are stated precisely.

15.4 Claims regarding invoices must be lodged in writing with the Supplier within eight (8) days of the date of the invoice.

15.5 If the Other Party does not claim within the applicable period or does not do so in the required way, the delivery shall be deemed to comply fully with the agreement and to be irrevocably accepted and approved by the Other Party; an invoice against which no claim has been lodged in the required manner within the period of eight (8) days specified in Article 15.4 will be regarded as having been unconditionally accepted and approved by the Other Party.

15.6 If the Supplier regards a claim with regard to goods supplied to be legitimate, then 15.6 the Supplier is only obliged to replace or repair the unsound goods, the Other Party having no right to any compensation.

15.7 Lodging a claim never discharges the Other Party from his payment obligations towards the Supplier.

15.8 Return of the delivery or any part thereof to the Supplier, for whatever reason, may only take place with express prior Written consent and shipment instructions from the Supplier to the Other Party.

16. Permits

16.1 The Other party is responsible for ensuring that all permits, concessions, licences, consents and so forth that might be necessary for the Supplier to deliver the goods sold or for the Supplier to fulfil his obligations, are obtained on time and in the correct form; the costs associated with obtaining such permits, concessions, licences, consents and so forth are to be borne by the Other Party.

16.2 The absence of any permits, concessions, licences, consents and so forth as indicated in Article

16.1 shall be considered as a liable failing (failure) on the part of the Other Party and shall not exempt the Other Party from any of his commitments towards the Supplier, nor can it be a reason for the postponement of the fulfilment of any obligation the Other Party has towards the Supplier.

16.3 The Other Party is liable for all losses which directly or indirectly may be caused by the absence of any permits, concessions, licences, consents and so forth as indicated in Article 16.1 and the Other Party indemnifies the Supplier against claims and demands connected with such losses.

17. Intellectual or industrial property rights

17.1 All right of intellectual and industrial ownership to the software, databases, diagrams, equipment, installations, solutions, analyses, designs, documentation, reports, proposals, and preparatory materials for the same developed or made available by the Supplier for the Other Party, remains exclusively with the Supplier, his licensors or his subcontractors. The Other Party only receives the usage rights that are expressly assigned in the Conditions and the law. These usage rights are non-exclusive and non-transferable to third parties. Any other or further right of the Other Party is excluded.

17.2 If, contrary to expectation, a good sold by the Supplier to the Other Party in The Netherlands infringes an industrial or intellectual ownership right of a third party and the Other Party is held liable, then the Other Party is obliged at once to inform the Supplier in writing of the situation. In this case the Supplier has at his discretion either to supply the right to use that good to the Other Party, or to modify the good in such a way that there is no further infringement, or to deliver a replacement good that does not infringe the right, or once he receives the good back to repay to the Other Party the purchase price less a reasonable payment for the period that the Other Party had the good at his disposal. With regard to infringements of industrial and intellectual property rights outside The Netherlands the Other Party can make no claim or demand whatsoever against the Supplier.

17.3 The Supplier is not liable for the infringement of any right of industrial or intellectual ownership or of any other exclusive right which is the consequence of:

- any change of or to a good sold or delivered by or on behalf of the Supplier;
- any use of such a good;
- any application of such a good other than that recommended by the Supplier or expected or assumed by the Supplier;
- integration with or use or application in combination with goods not sold and delivered by or on behalf of the Supplier;
- a software modification which is not carried out by or on behalf of the Supplier.

18. Payment and default

18.1 The Other Party shall pay invoices in accordance with the terms of payment given in the invoice. If no specific conditions are stated in the invoice, the Other Party shall pay within thirty days of the given date of invoice. The Other Party is not entitled to offset or delay payment. The date on the Supplier's bank or giro statement when the payment is recorded as received applies as the date on which the payment has occurred.

18.2 Any payment by the Other Party shall – if applicable – go in the first place towards settlement of any interest he owes and towards any costs of collection and administrative costs owed to the Supplier, and then towards settlement of the outstanding claims in order of age, therefore commencing with the oldest outstanding claim.

18.3 If the Other Party does not settle sums owed to the Supplier punctually, the Other Party shall without a warning or declaration of default being necessary also owe the outstanding amount of statutory interest. If following reminder to pay, warning or declaration of default the Other Party still fails to fulfil his payment obligations within a reasonable period he shall by rights be in default. From that moment the Supplier may pass the claim on for collection. Once the claim is passed

on the Other Party is obliged besides the rightfully established costs to reimburse the Supplier for the actual legal costs of the Supplier and the actual extra-judicial costs including the costs charged by external experts.

19. Ending an agreement

19.1 In the event a party is in default, this entitles the counterparty to dissolve all or part of the agreement notwithstanding the entitlement to claim for fulfilment.

19.2 The Supplier is in the event of dissolution not obliged to pay any compensation.

19.3 The Supplier may without declaration of default dissolve the agreement with immediate effect in the event the other party is declared bankrupt, cedes property, is granted (temporary or definitive) surseance of payment, in the event that all or part of the assets of the counterparty are seized or in the event that the counterparty's enterprise is liquidated or wound up.

19.4 If a party terminates or dissolves an agreement in accordance with the provisions of this Article then the amount that the Other Party owes to the Supplier at the moment of termination or dissolution remains as the full debt and the Other Party will be liable to pay interest and costs according to the provisions of these Conditions, without prejudice to the right of the Supplier to demand damages, to make use of the rights arising from ownership retention, to take other (legal) measures and other rights due to the Supplier.

20. Cancellation by other Party

20.1 If the Other Party wishes to cancel an order he has issued and Supplier consents to this, the Other Party shall owe the Supplier for the costs of cancellation. The costs of cancellation are expressed as a percentage of the amount connected with the agreement and depend on work meanwhile undertaken by the Supplier to implement the agreement, the nature or type of services and goods to which the order relates, and the costs that he has incurred up to the moment of cancellation.

20.2 In the event of cancellation as indicated in this Article the Supplier is never obliged to reimburse any losses of the Other Party.

21. Applicable law and disputes

21.1 Dutch law shall apply to all Offers and agreements entered into by or on behalf of the Supplier. The United Nations Convention on Contracts for the International Sale of Goods (Vienna Sales Convention 1980) is barred from application.

21.2 Disputes arising from an agreement concluded between the Supplier and the Other Party shall be presented to the authorised judge of the district in which the Supplier is located as judge of first instance, with the proviso that if a particular judge is mandatorily appointed as competent judge then the dispute will be decided in the first instance by the judge so appointed, in either case without prejudice to the right of the Supplier to seizure or to take other provisional measures at the place(s) and before the legal bodies that the Supplier wishes.

21.3 The provisions of Article 21.2 leave intact the right of the Supplier to bring the dispute before a judge qualified according to the normal competency rules or to obtain a settlement by means of arbitration or binding advice.

22. Validity

22.1 If any provision in these Conditions is not completely valid or only partially valid and/or not enforceable as a result of any legal directive, judicial judgement or any directive, decision, recommendation or measure from any local, regional, national or supranational authority or body or otherwise then this will have no effect on the validity of the other provisions in these Conditions. If a provision in these Conditions happens not to be valid for one or other reason indicated in the previous sentence but would be valid if it had a more limited range or scope then this provision will be automatically valid with the most far-reaching or extensive range or scope with which or within which it is valid.



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