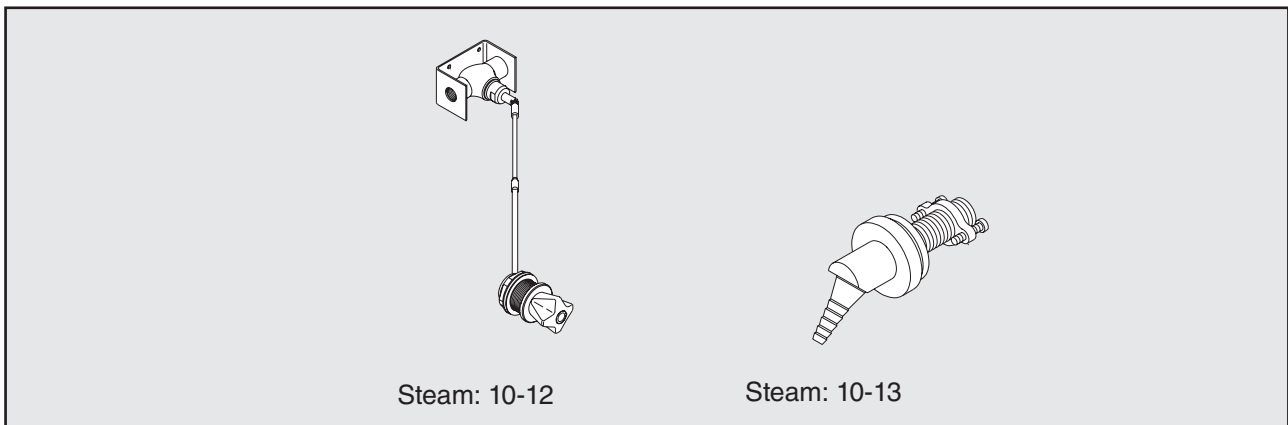
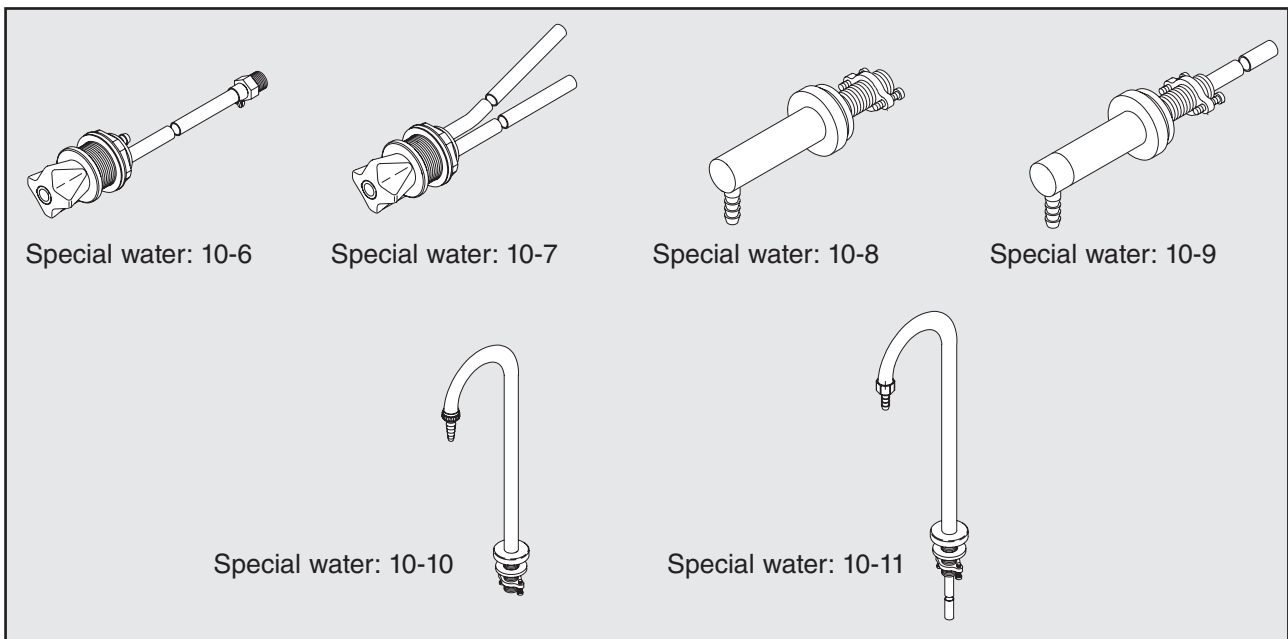
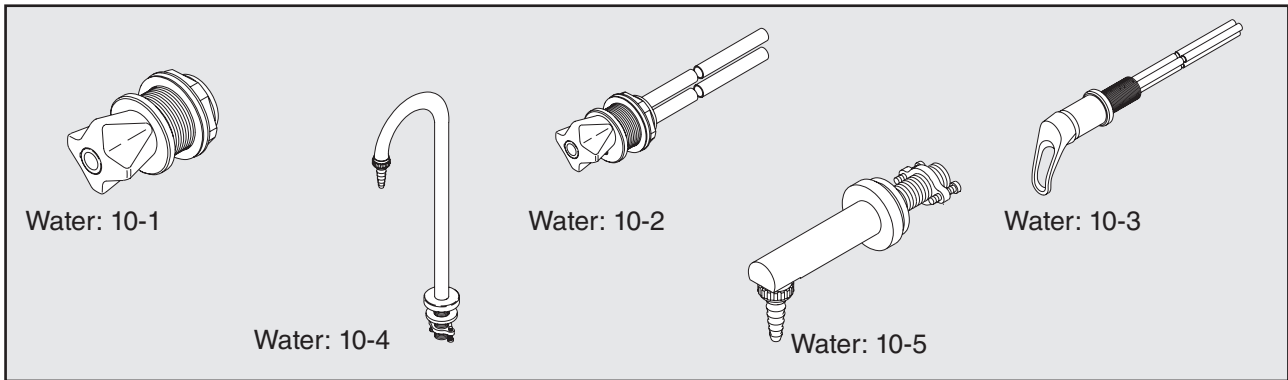


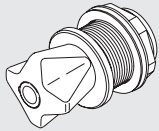
## BOSS front-control valves

### - contents / assemblies

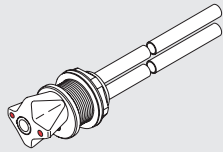


## BOSS front-control valves

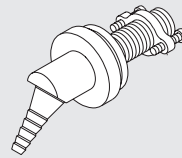
### - contents / assemblies



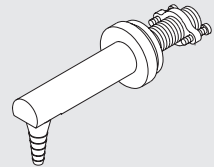
Burning gas: 10-14



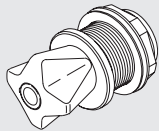
Burning gas: 10-15



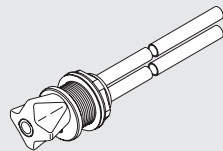
Burning gas: 10-16



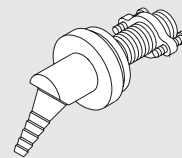
Burning gas: 10-17



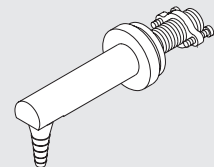
Vacuum & non-burning  
2.0 gases: 10-18



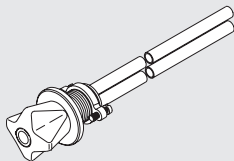
Vacuum & non-burning  
2.0 gases: 10-19



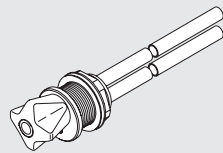
Vacuum & non-burning  
2.0 gases: 10-20



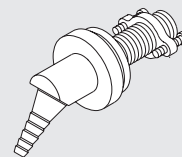
Vacuum & non-burning  
2.0 gases: 10-21



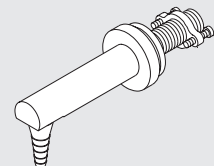
Non-burning  
4.0 gases: 10-22



Non-burning  
4.0 gases: 10-23

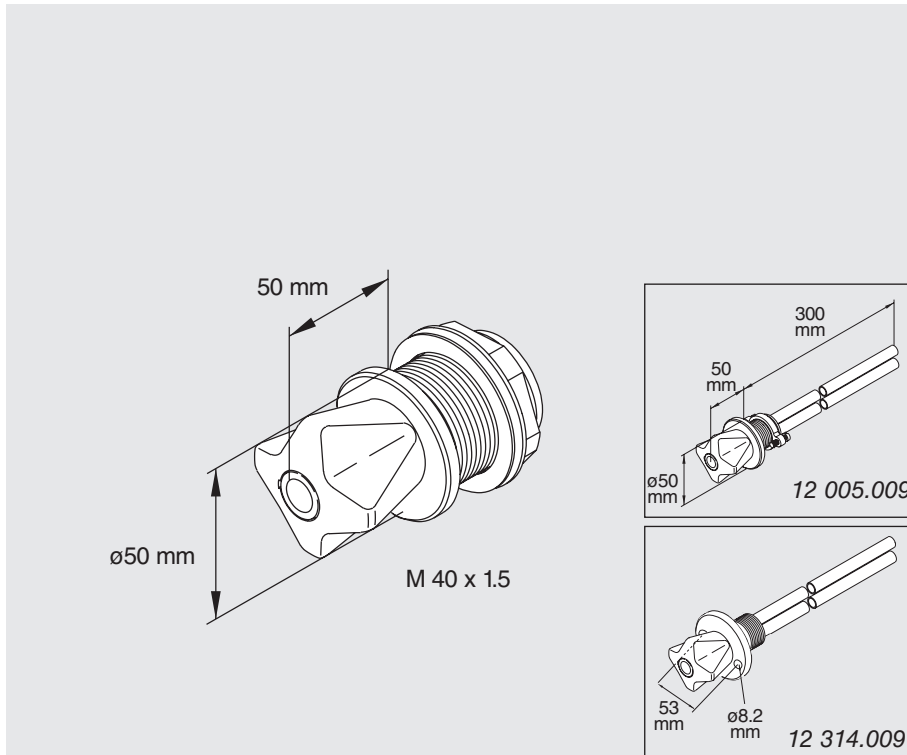


Non-burning  
4.0 gases: 10-24



Non-burning  
4.0 gases: 10-25

## BOSS front-control valves - for water



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 12 311.009; Water

Front-control valve for water with ceramic head work. No pipes, and a 1/4" female thread.

### 12 005.009; Water

Front-control valve for water with ceramic head work. and pipes.  
Drill  $\varnothing 30$ mm hole for mounting.

### 12 314.009; Water

Like above but with special 2 hole flange for front mounting.  
Distance between center of mounting holes: 53 mm.  
Hole dimension is  $\varnothing 8.2$  mm.  
Drill  $\varnothing 30$ mm hole for mounting.  
Suggested outlet: Page 10-5

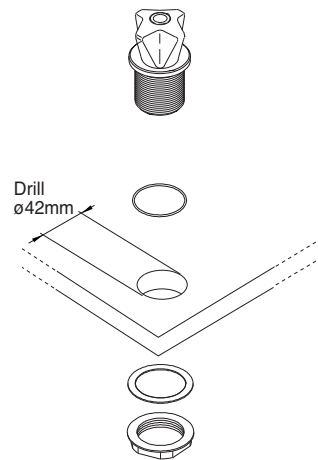
### Materials with medium contact:

Metals:	Brass
Sealing:	EPDM
Plastics:	POM, PVDF
Lubricant:	Silicone based
Ceramics:	Al-oxyd 96%
Pipes:	Cu
Solder:	DIN L-Ag55:Sn

Weight: 0.6 kg

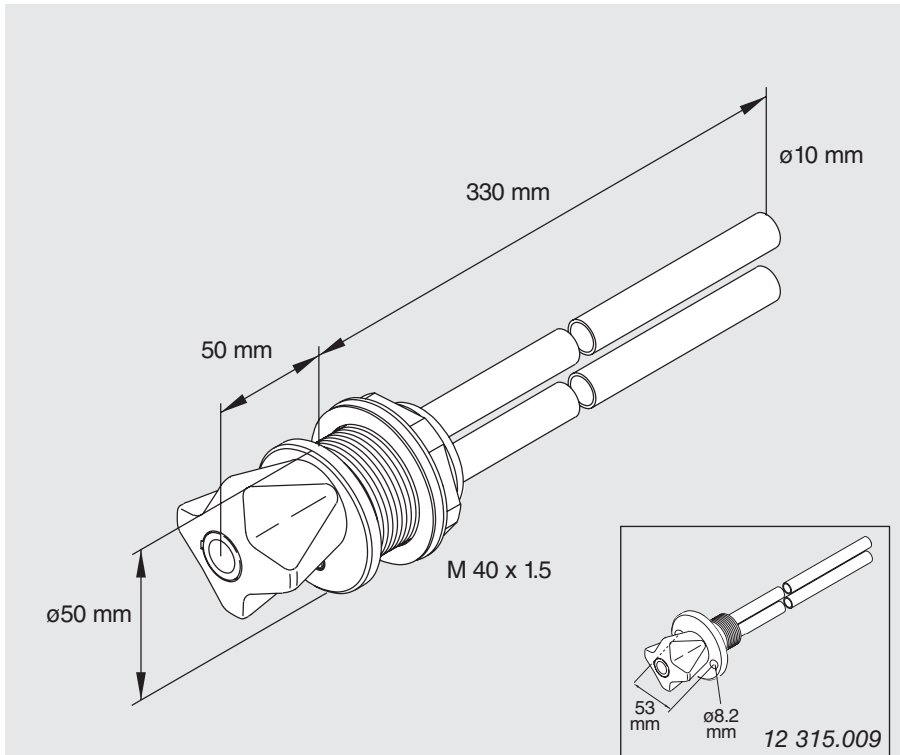
Maximum working pressure:  
10 bar/147 psi.

### Mounting information:



Delivered with mounting accessories.

## BOSS front-control valves - for water with built-in shut-off valve



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

The valve incorporates a built-in shut off valve, which offers a number of advantages:

1. Local shut-off, e.g. in connection with product service.
2. Pre-setting for experimental purposes.
3. Media conservation.
4. Safety lock, preventing unintended opening of the fitting.

### 12 210.009; Water

Front-control valve for water with ceramic head work and built-in shut-off valve.

### 12 315.009; Water

Like above but with special 2 hole flange for front mounting.  
Distance between center of mounting holes: 53 mm.  
Hole dimension is  $\varnothing 8.2$  mm.  
Suggested outlet: Page 10-5

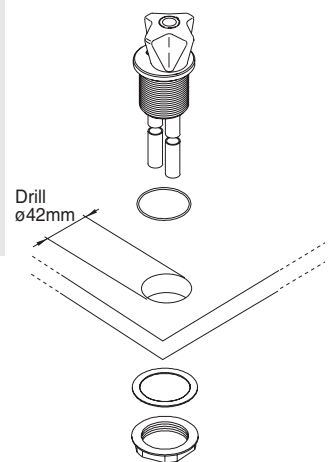
#### Materials with medium contact:

Metals:	Brass
Sealing:	EPDM
Plastics:	POM, PVDF
Lubricant:	Silicone based
Ceramics:	Al-oxyd 96%
Pipes:	Cu
Solder:	DIN L-Ag55:Sn

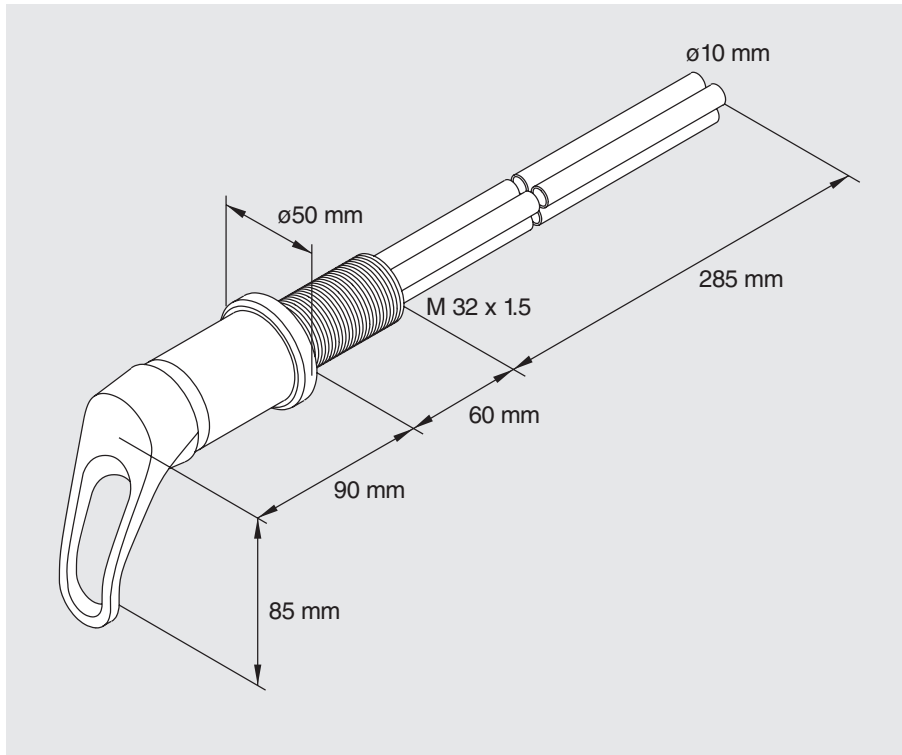
Weight: 1.0 kg

Maximum working pressure:  
10 bar/147 psi.

#### Mounting information:



## BOSS front-control valves - hot and cold water mixer



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 12 306.009; Water

Front-control valve for water with ceramic head work.

Suggested outlet: Page 10-5

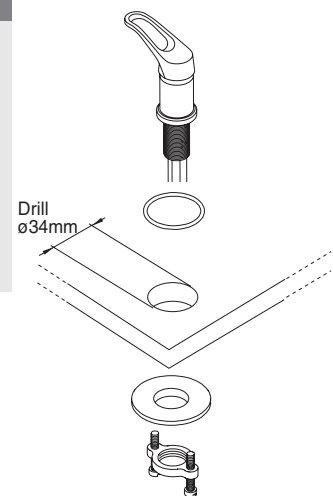
### Materials with medium contact:

Metals:	Brass
Sealing:	EPDM
Plastics:	POM, PES
Lubricant:	Silicone based
Ceramics:	Al-oxyd 96%
Pipes:	Cu
Solder:	DIN L-Ag55:Sn

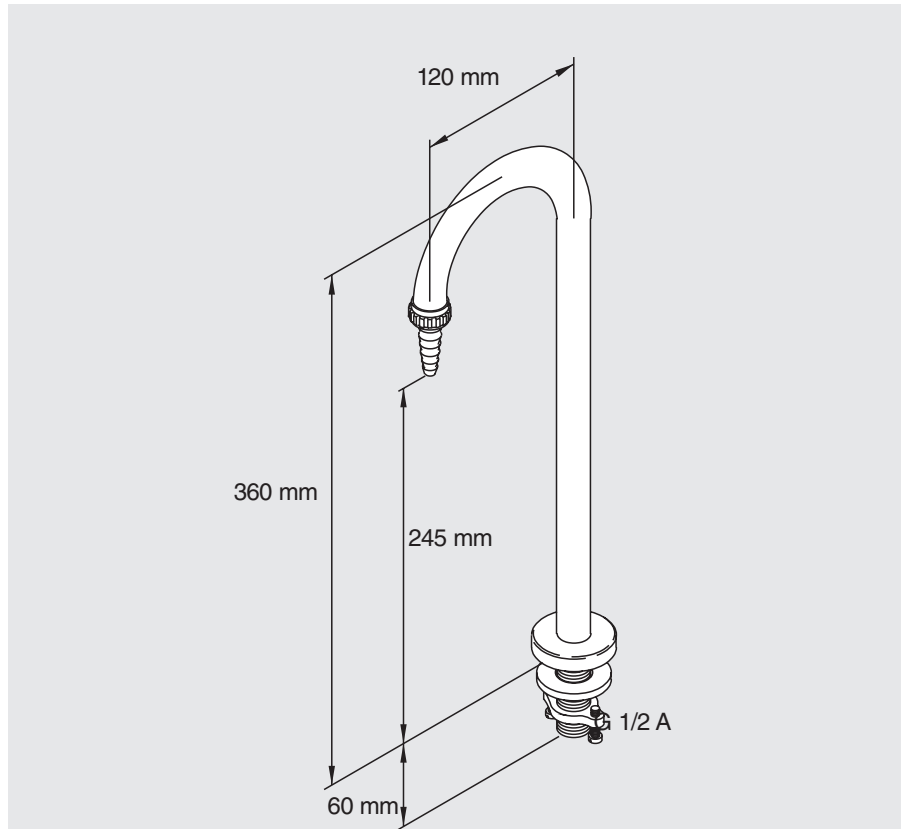
Weight: 0.9 kg

Maximum working pressure:  
10 bar/147 psi.

### Mounting information:



## BOSS front-control valves - bench outlet for water



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 18 425 009; Water

Bench outlet with detachable nozzle for water.

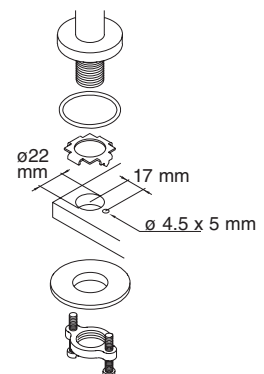
Delivered with mounting accessories.  
All in green- 5168

### Materials with medium contact:

Metal	Brass
Sealing	EPDM

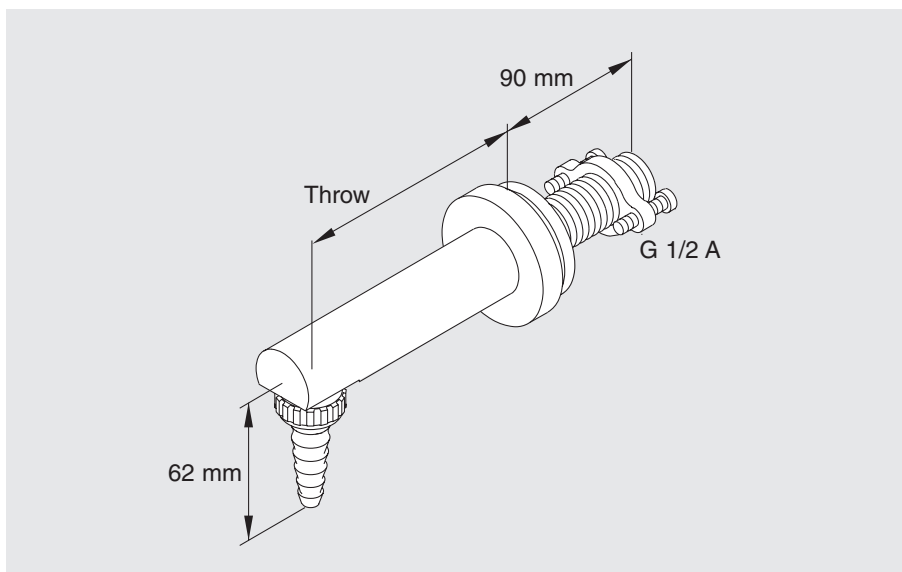
Weight: 0.9 kg  
Maximum working pressure:  
10 bar/147 psi.

### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves - fume hood outlets for water



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 18 414.009; Water

Wall outlet with detachable nozzle and 90 mm throw.  
All in green- 5168

### 18 424.009; Water

Wall outlet with detachable nozzle and 150 mm throw.  
All in green- 5168

Delivered with mounting accessories.

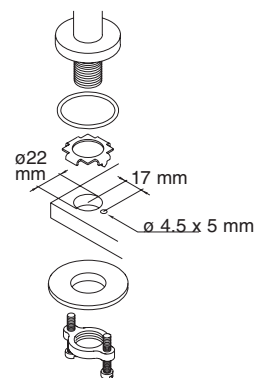
#### Materials with medium contact:

Metals	Brass
Sealing	EPDM

Weight: 0.5 kg

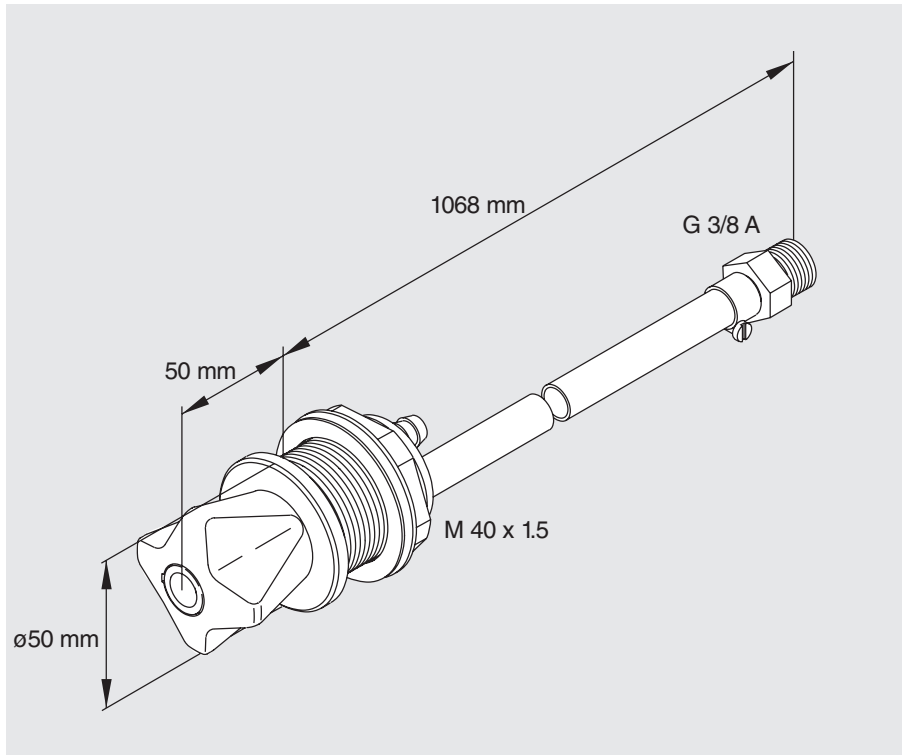
Maximum working pressure:  
10 bar/147 psi.

#### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves - for special water



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 15 387.009; Special water

Front-control valve for special water with PEX inlet pipe.

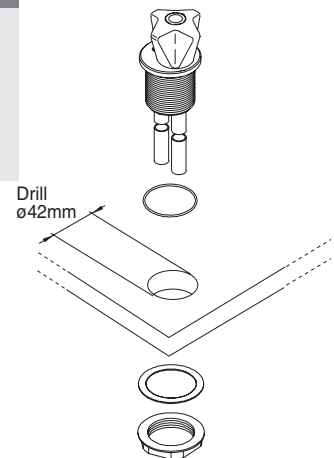
Suggested outlet: Page 10 -9  
Page 10-11

#### Materials with medium contact:

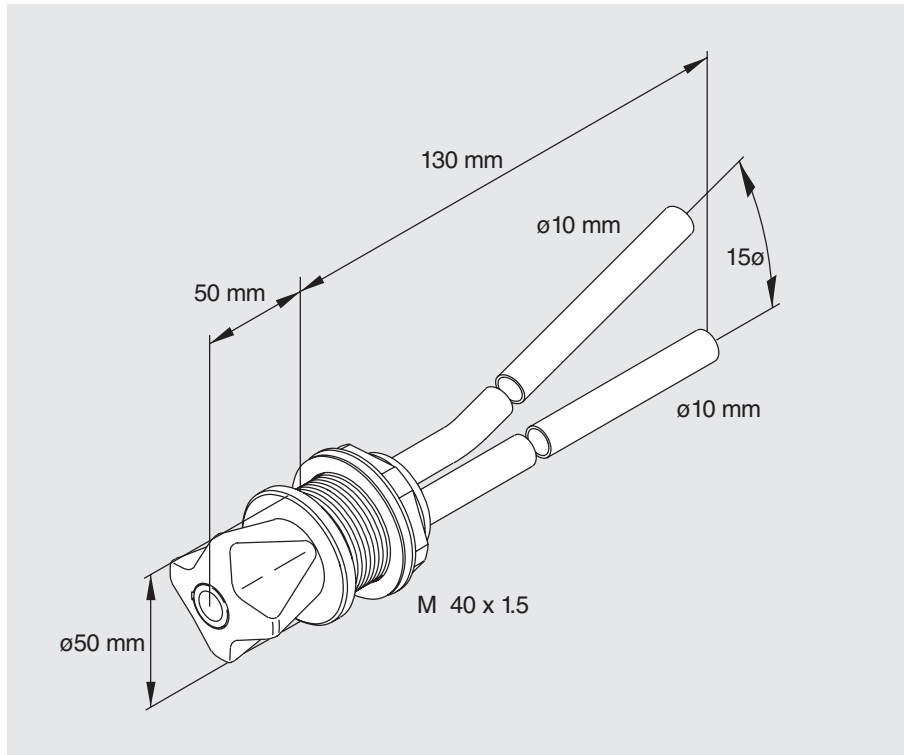
Plastics:	POM
Sealing:	EPDM
Plastic hose	PEX (crosslinked polyethylene)
Glue	Loctite

Weight: 1.8 kg  
Maximum working pressure:  
10 bar/147 psi.

#### Mounting information:



## BOSS front-control valves - for special water



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 15 381.009; Special water

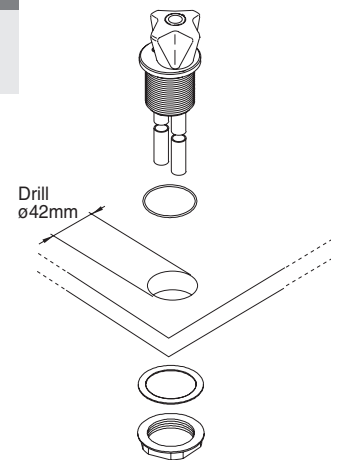
Front-control valve for special water with stainless steel tubes.  
Suggested outlet: Page 10-8

#### Materials with medium contact:

Metal	Stainless steel
Sealing	EPDM

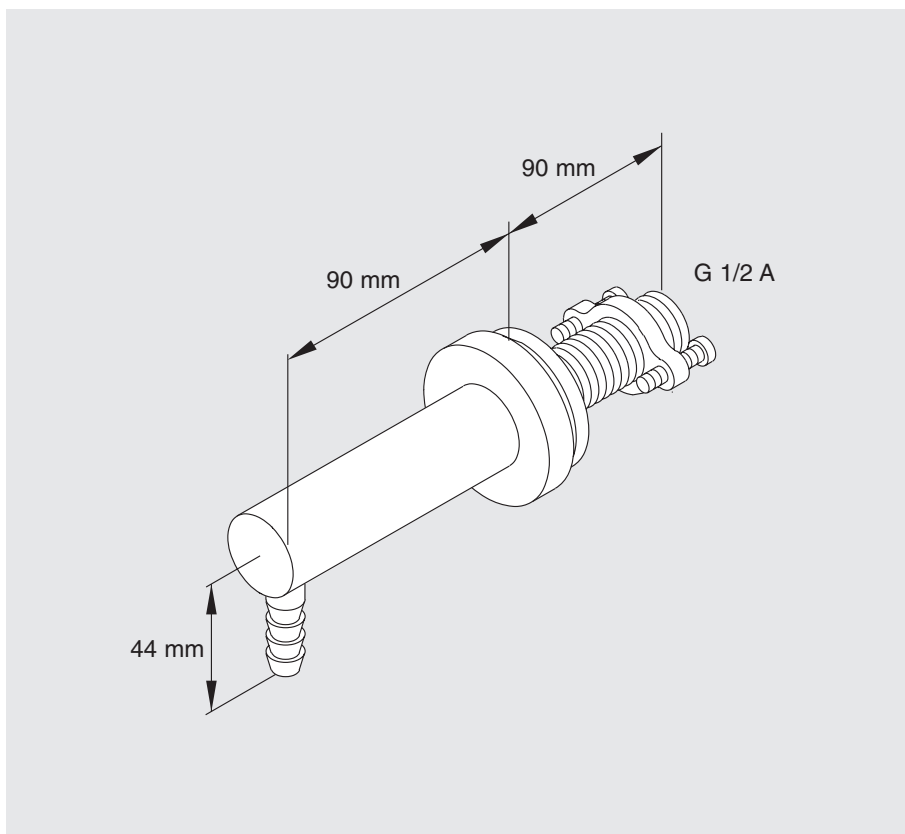
Weight: 1.0 kg  
Maximum working pressure:  
10 bar/147 psi.

#### Mounting information:



## BOSS front-control valves

### - fume hood outlet for special water



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

#### 19 383.009; Special water

Wall outlet with fixed nozzle for pure water in stainless steel.

Delivered with mounting accessories.

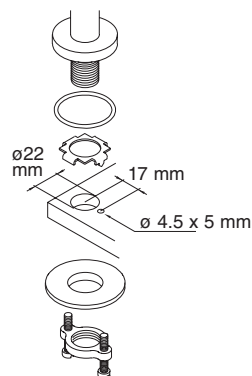
#### Materials with medium contact:

Metal	Stainless steel
Sealing	EPDM

Weight: 0.5 kg

Maximum working pressure:  
10 bar/147 psi.

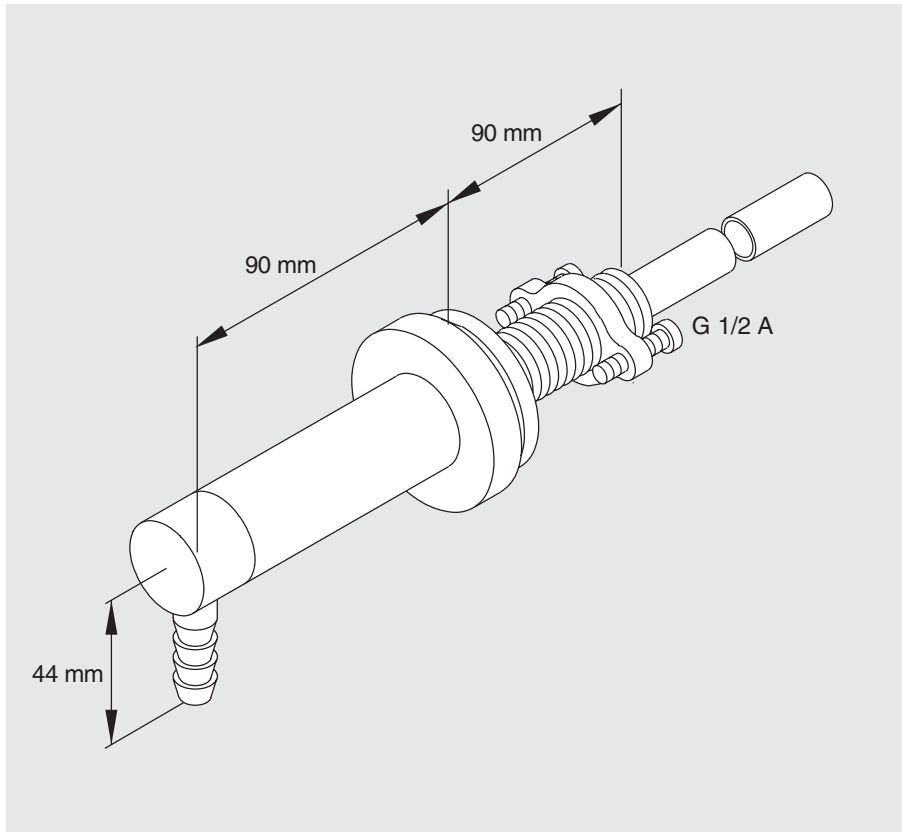
#### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves

### - fume hood outlet for special water



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

#### 19 388.009; Special water

Wall outlet with fixed nozzle for pure water in brass with internal PEX pipe.

#### 19 386.009; Special water

As above but F = 150 mm

Delivered with mounting accessories.

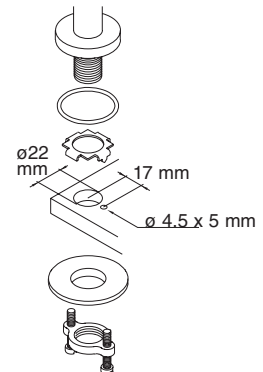
#### Materials with medium contact:

Metal	Stainless steel
Plastics	POM
Plastic hose	PEX (crosslinked polyethylene)
Sealing	EPDM

Weight: 0.5 kg

Maximum working pressure:  
10 bar/147 psi.

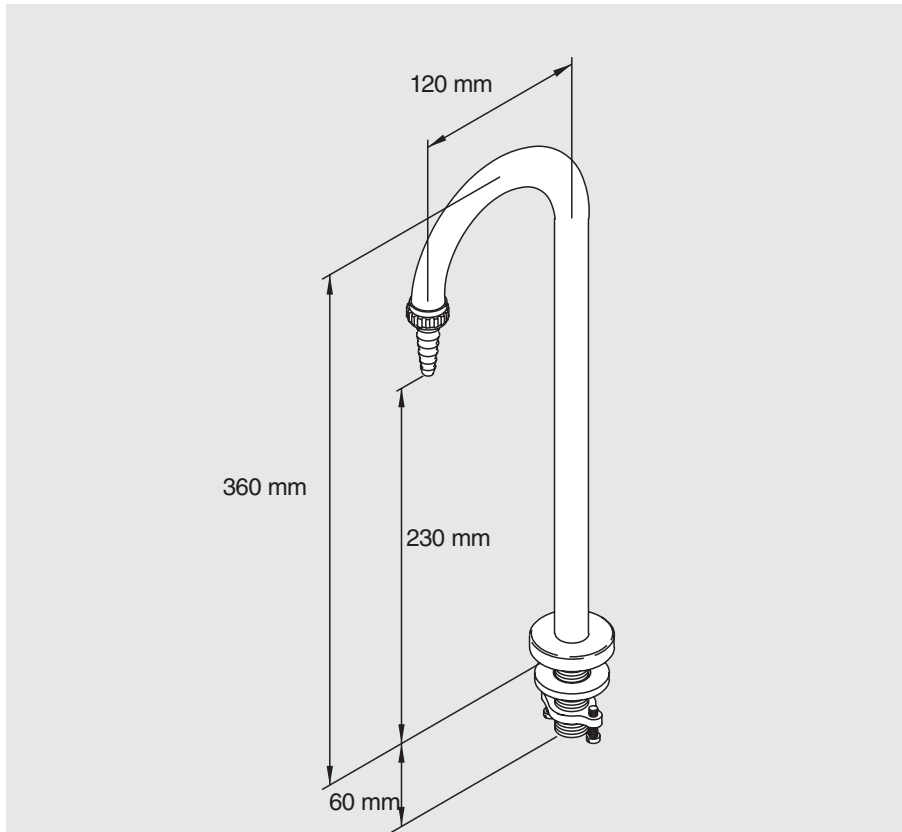
#### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves

### - bench outlet for special water



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

#### 19 387.009; Special water

Bench outlet in stainless steel.

Delivered with mounting accessories.

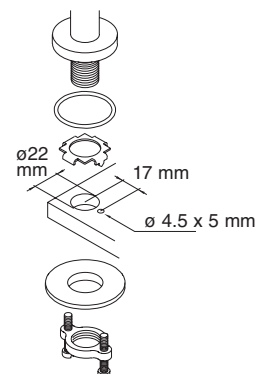
#### Materials with medium contact:

Metal	Stainless steel
Sealing	EPDM

Weight: 1.1 kg

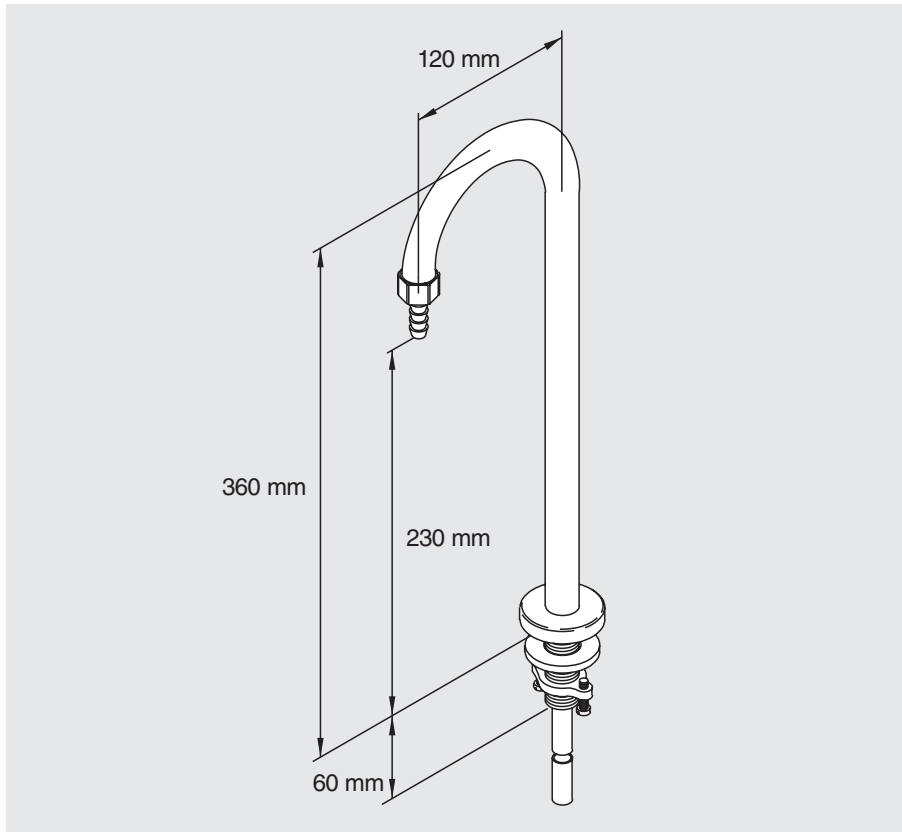
Maximum working pressure:  
10 bar/147 psi.

#### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves - bench outlet for special water



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 19 389.009; Special water

Bench outlet with inserted PEX Pipe.

Delivered with mounting accessories.

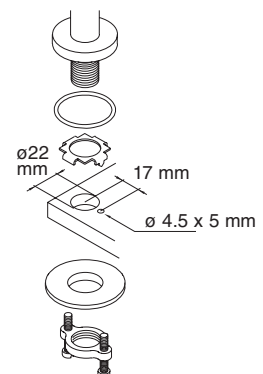
#### Materials with medium contact:

Metal	Stainless steel
Plastics	POM
Plastic hose	PEX (crosslinked polyethylene)
Sealing	EPDM

Weight: 1.1 kg

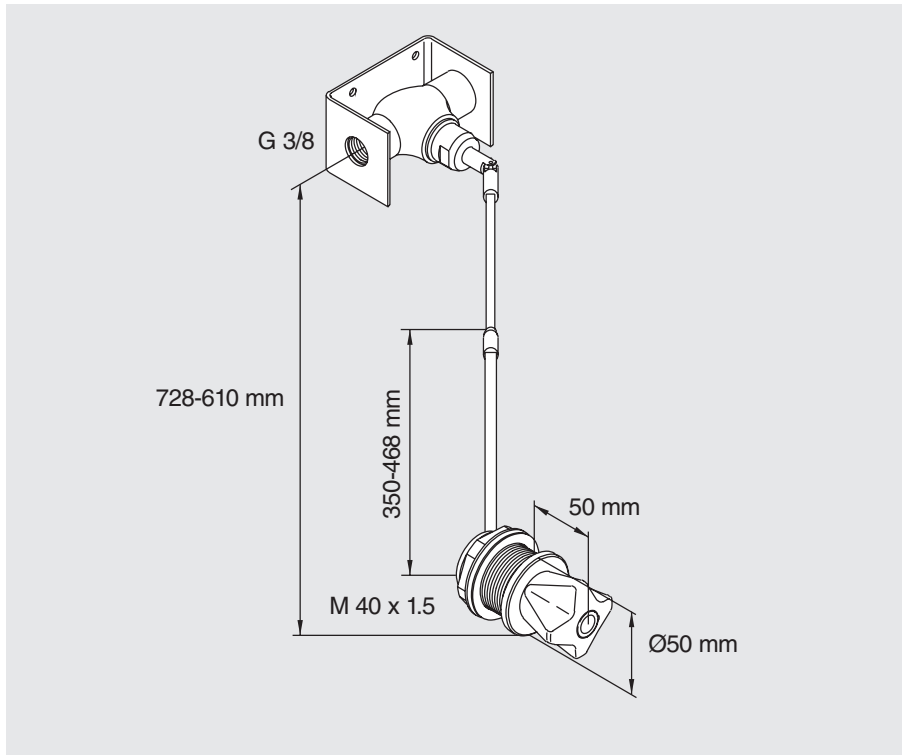
Maximum working pressure:  
10 bar/147 psi.

#### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves - rod operated valve for steam



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 15 089.009; Steam

Front-control valve for steam  
max. 120°C.

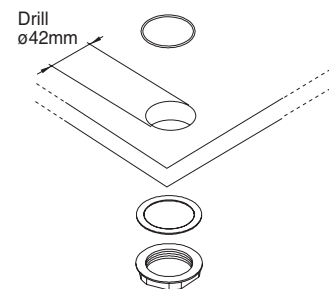
Suggested outlet: Page 10-13

### Materials with medium contact:

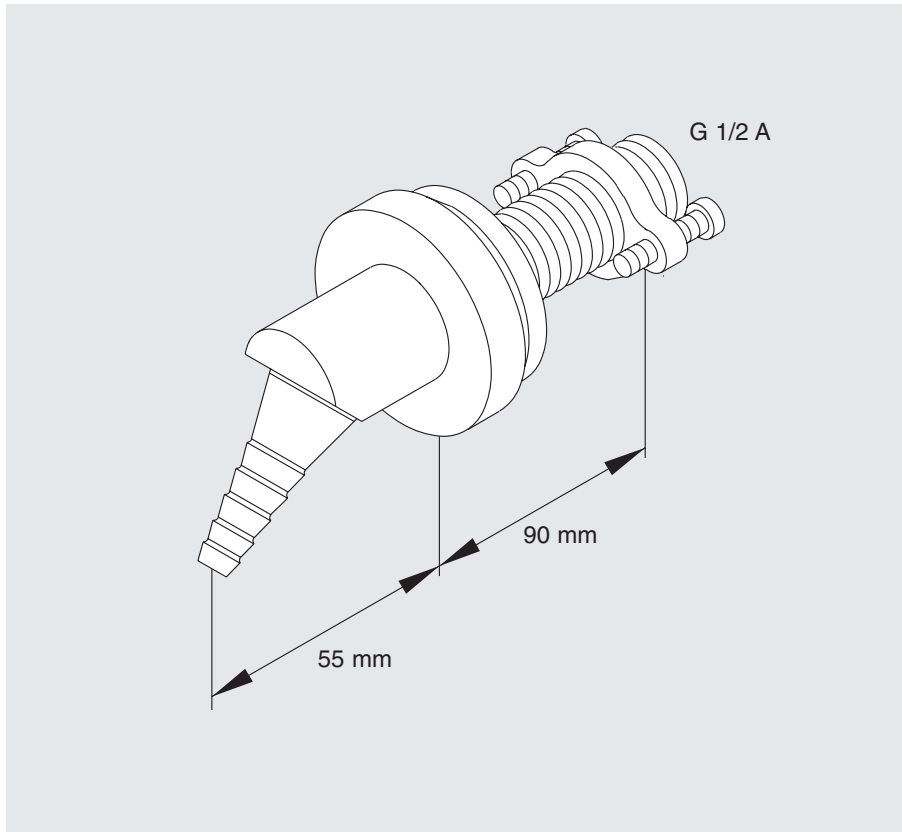
Brass	DIN 17660 Cu-Zn 39Pb3
Sealing	EPDM

Weight: 2.1 kg  
Maximum working pressure:  
10 bar/147 psi.

Mounting information:



## BOSS front-control valves - fume hood outlet for steam



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 15 090.009; Steam

Wall outlet for steam.

Delivered with mounting accessories.

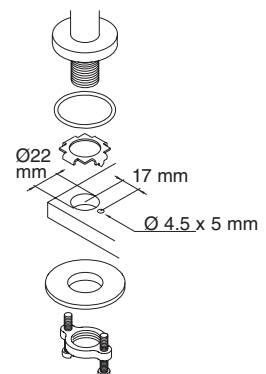
#### Materials with medium contact:

Metals	Brass
Sealing	EPDM
Lubricant	Silicone based

Weight: 0.4 kg

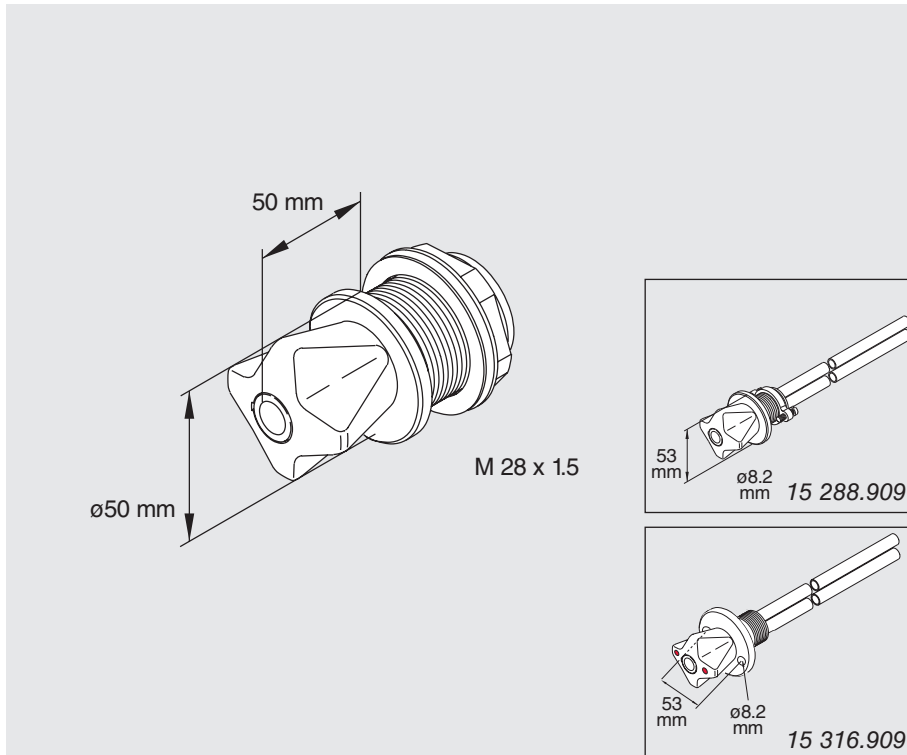
Maximum working pressure:  
10 bar/147 psi.

#### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves - for burning gases



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 18 312.949; Burning gas

Front control valve for burning gases. No pipes with 1/4" female thread.

### 15 288.909; Burning gas

Like 15 288.009, but with "pop-up" indication handle. (Large illustration)

### 15 316.909; Burning gas

Like 15 316.009, but with "pop-up" indication handle. (Small illustration)

Suggested outlets: 10-16  
10-17

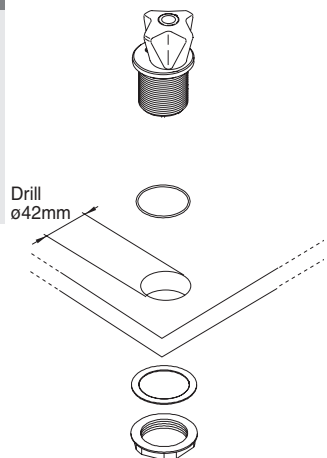
Delivered with mounting accessories.

### Materials with medium contact:

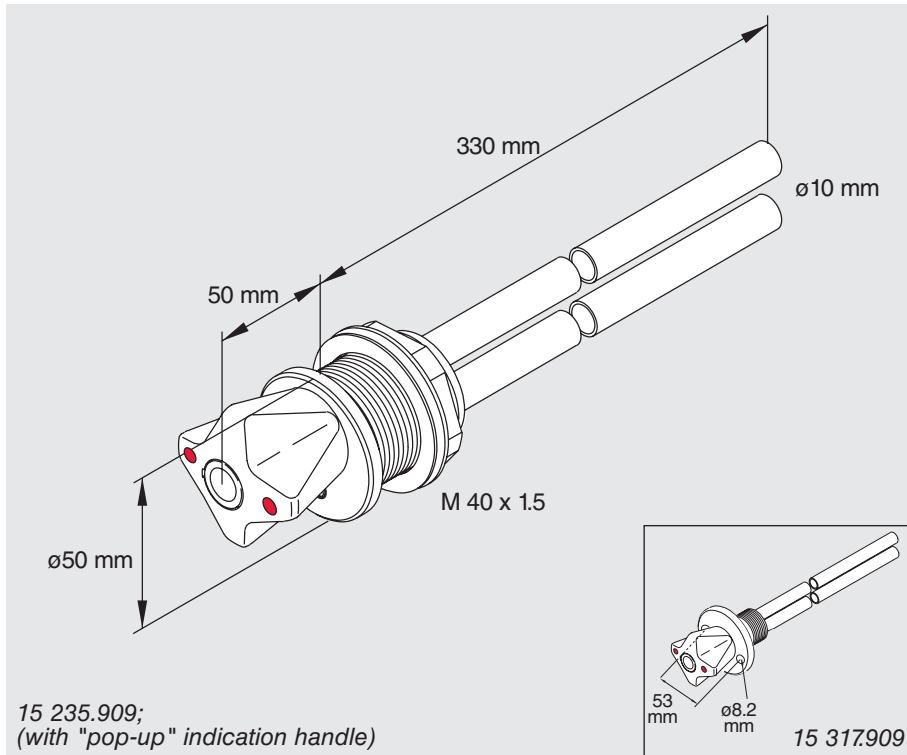
Metals:	Brass
Sealing:	Nitrile
Plastics:	PVDF
Lubricant:	Approved for burning gas
Pipes:	Cu
Solder:	DIN L-Ag55:Sn

Weight: 0.6 kg  
Maximum working pressure:  
7 bar/100 psi.

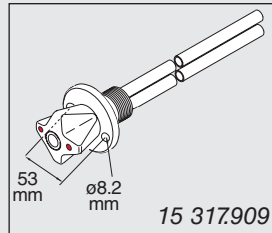
### Mounting information:



## BOSS front-control valves - for burning gases with built-in shut-off valve



15 235.909;  
(with "pop-up" indication handle)



15 317.909

The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

The valve incorporates a built-in shut off valve, which offers a number of advantages:

1. Local shut-off, e.g. in connection with product service.
2. Pre-setting for experimental purposes.
3. Media conservation.
4. Safety lock, preventing unintended opening of the fitting.

### 15 235.909; Burning gas

With "pop-up" indication handle. (Large illustration)

### 15 317.909; Burning gas

Like 15 235.009, but with "pop-up" indication handle. (Small illustration)

Suggested outlets: 10-16  
10-17

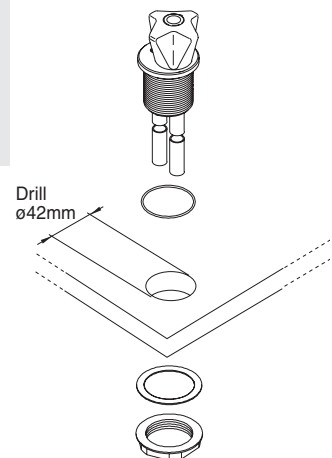
Delivered with mounting accessories.

### Materials with medium contact:

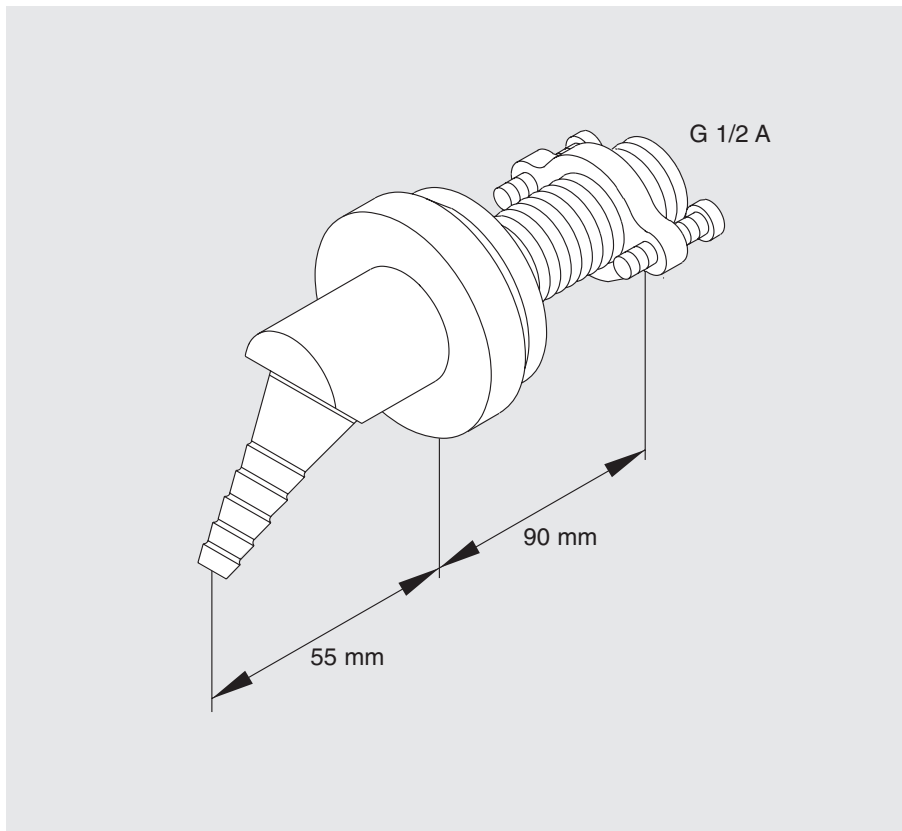
Metals:	Brass
Sealing:	Nitrile
Plastics:	PVDF
Lubricant:	Approved for burning gas
Pipes:	Cu
Solder:	DIN L-Ag55:Sn

Weight: 1.0 kg  
Maximum working pressure:  
7 bar/100 psi.

### Mounting information:



## BOSS front-control valves - outlet for burning gases



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 18 417.009; Burning gases

Wall outlet with fixed nozzle.  
Nozzle detachable with key  
No. 96K0002.  
All in yellow- 4059 burning gas

Delivered with mounting accessories.

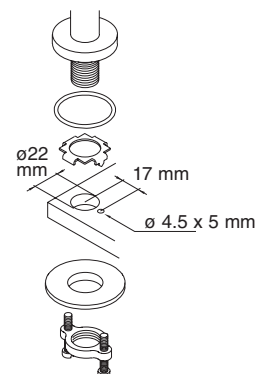
### Materials with medium contact:

Metals	Brass
Sealing	*Viton®

Weight: 0.5 kg

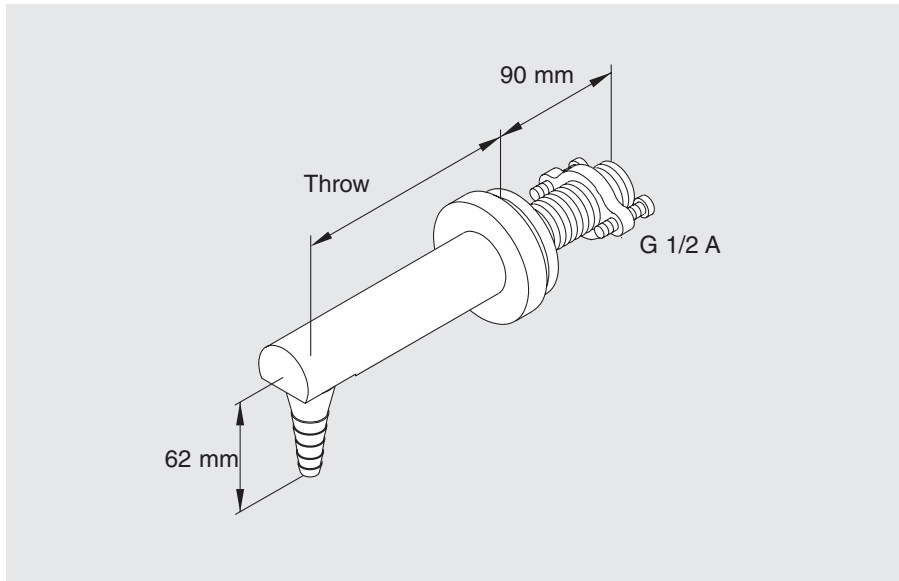
Maximum working pressure:  
7 bar/100 psi.

### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves - outlet for burning gases



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

### 19 236.009; Burning gases

Wall outlet with fixed nozzle and 90 mm throw.

### 19 425.009; Burning gases

Wall outlet with fixed nozzle and 150 mm throw.

Nozzle detachable with key  
No. 96K0002.

Delivered with mounting accessories.

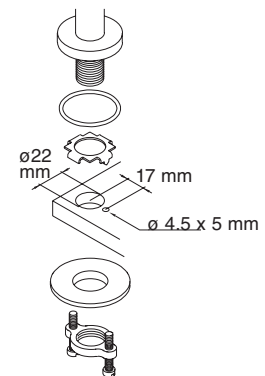
#### Materials with medium contact:

Metals	Brass
Sealing	Viton®

Weight: 0.5 kg

Maximum working pressure:  
7 bar/100 psi.

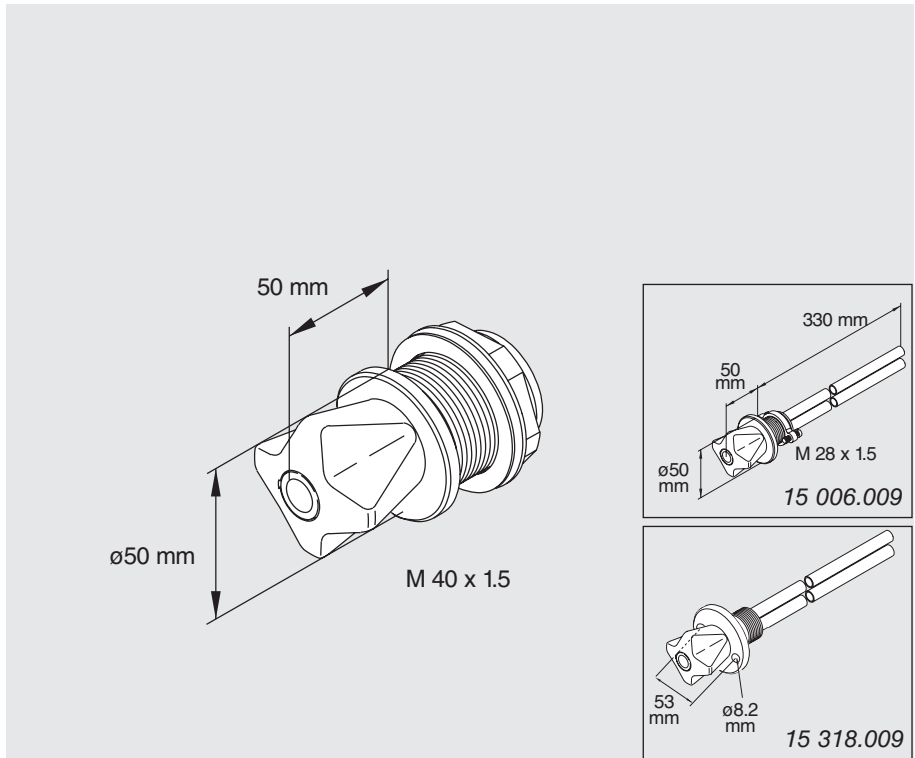
#### Mounting information:



Drill ø 22 mm for the inlet.  
Drill ø 4.5 mm for the locking ring at a distance of 17 mm from the center of the ø 22 mm hole.  
The ø 4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves

### - for vacuum & non-burning 2.0 gases



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

**18 312.009;** Front-control valve for non burning gasses. No pipes with 1/4" female thread.

**18 312.929;** Front-control valve with high flow / vacuum head work. No pipes, and with 1/4" female thread.

Suggested outlets: Page 10-20  
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**15 006.009;** Front-control valve.

**15 006.929;** Front-control valve with high flow / vacuum head work.

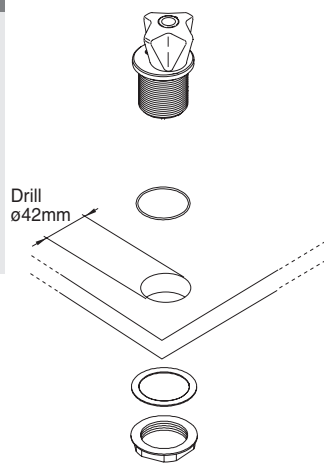
**15 318.009;** Front-control valve with special 2 hole flange for front mounting. Distance between center of mounting holes: 53 mm. Hole dimension is ø8.2 mm.

**15 318.929;** like above except with pipes. Distance between center of mounting holes: 53 mm. Hole dimension is ø8.2 mm. Delivered with mounting accessories.

Materials with medium contact:	
Metals:	Brass (High flow/vacuum head work: Stainless steel)
Sealing:	Viton®
Plastics:	PVDF
Lubricant:	Based on PTFE
Pipes:	Cu
Solder:	DIN L-Ag55:Sn

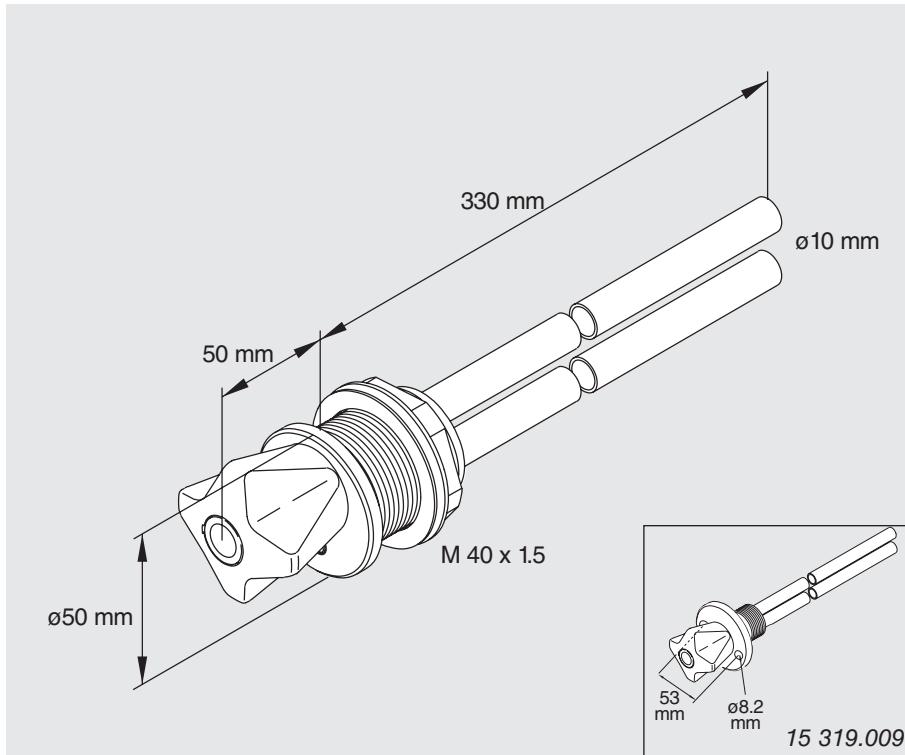
Weight: 0.6 kg  
Maximum working pressure: 10 bar/147 psi.

**Mounting information:**



## BOSS front-control valves

- for vacuum & non-burning 2.0 gases  
with built-in shut-off valve



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

The valve incorporates a built-in shut off valve, which offers a number of advantages:

1. Local shut-off, e.g. in connection with product service.
2. Pre-setting for experimental purposes.
3. Media conservation.
4. Safety lock, preventing unintended opening of the fitting.

**15 240.009;** Front-control valve with built-in shut-off valve.

**15 240.929;** Front-control valve with built-in shut-off valve and high flow/vacuum head work.

**15 319.009;** Front-control valve with built-in shut-off valve and special 2 hole flange for front mounting.

Distance between center of mounting holes: 53 mm.  
Hole dimension is ø8.2 mm.

**15 319.929;** Front-control valve with built-in shut-off valve and high flow/vacuum head work and special 2 hole flange for front mounting.

Distance between center of mounting holes: 53 mm.  
Hole dimension is ø8.2 mm.

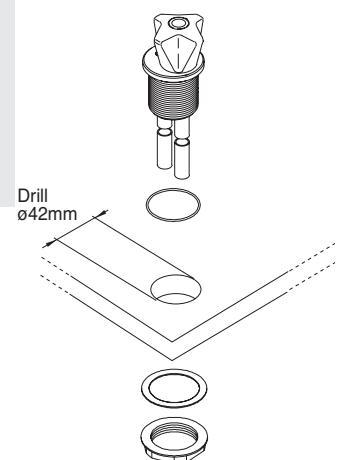
### Materials with medium contact:

Metals:	Brass and nickel (High flow/vacuum head work: Stainless steel)
Sealing:	Viton®
Plastics:	PVDF
Lubricant:	Based on PTFE
Pipes:	Cu
Solder:	DIN L-Ag55:Sn

Weight: 1.0 kg

Maximum working pressure:  
10 bar/147 psi.

### Mounting information:

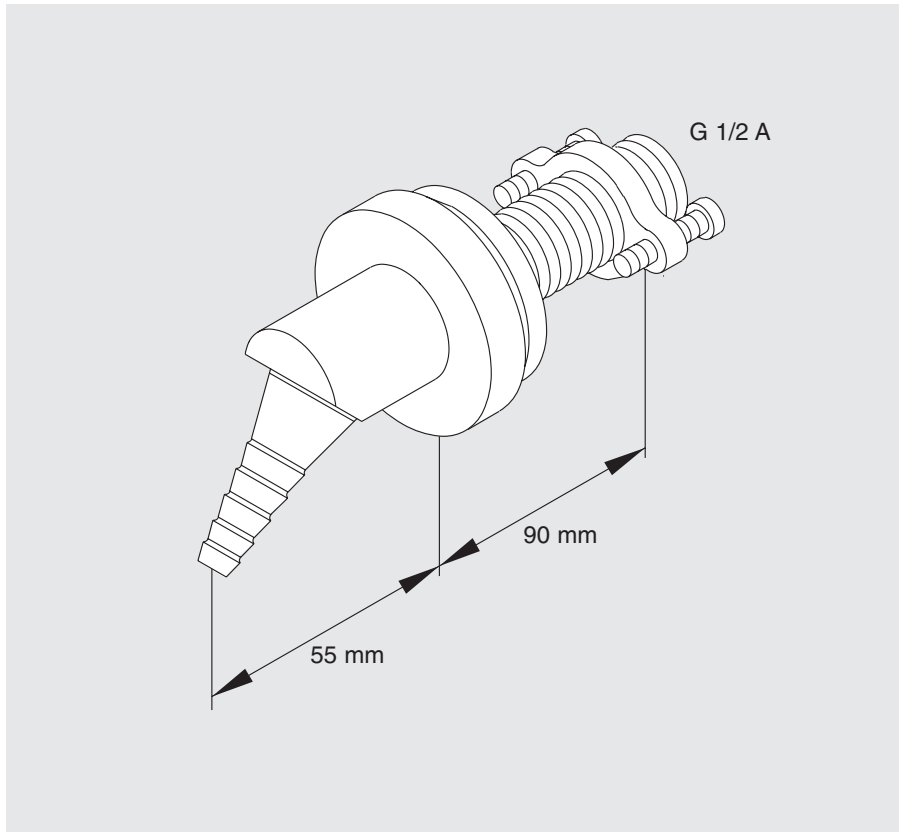


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# BOSS front-control valves

## - fume hood outlet

### for vacuum & non-burning 2.0 gases



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

**18 417.009;** Wall outlet with nozzle.

Nozzle detachable with key  
No. 96K0002.

Light grey- 7001 Vacuum

Light blue- 6188 Non-burning gas

Delivered with mounting accessories.

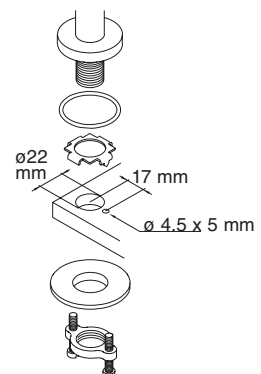
#### Materials with medium contact:

Metals	Brass
Sealing	Viton®
Lubricant	Silicone based

Weight: 0.5 kg

Maximum working pressure:  
10 bar/147 psi.

#### Mounting information:

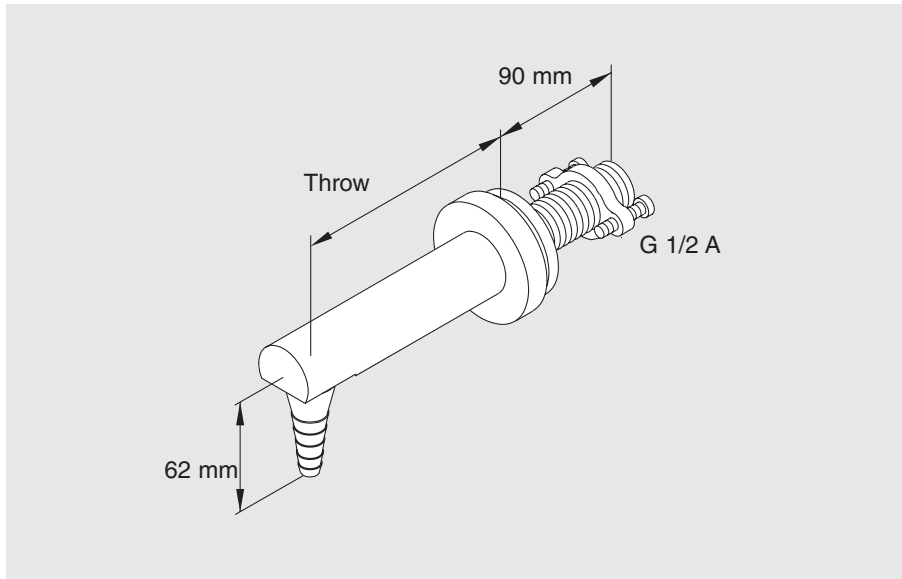


Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves

### - fume hood outlet

## for vacuum & non-burning 2.0 gases



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

**19 236.009;** Wall outlet with fixed nozzle and 90 mm throw.

**19 425.009;** Wall outlet with fixed nozzle and 150 mm throw.

Delivered with mounting accessories.

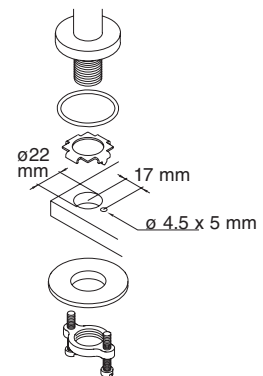
#### Materials with medium contact:

Metals	Brass
Sealing	Viton®

Weight: 0.5 kg

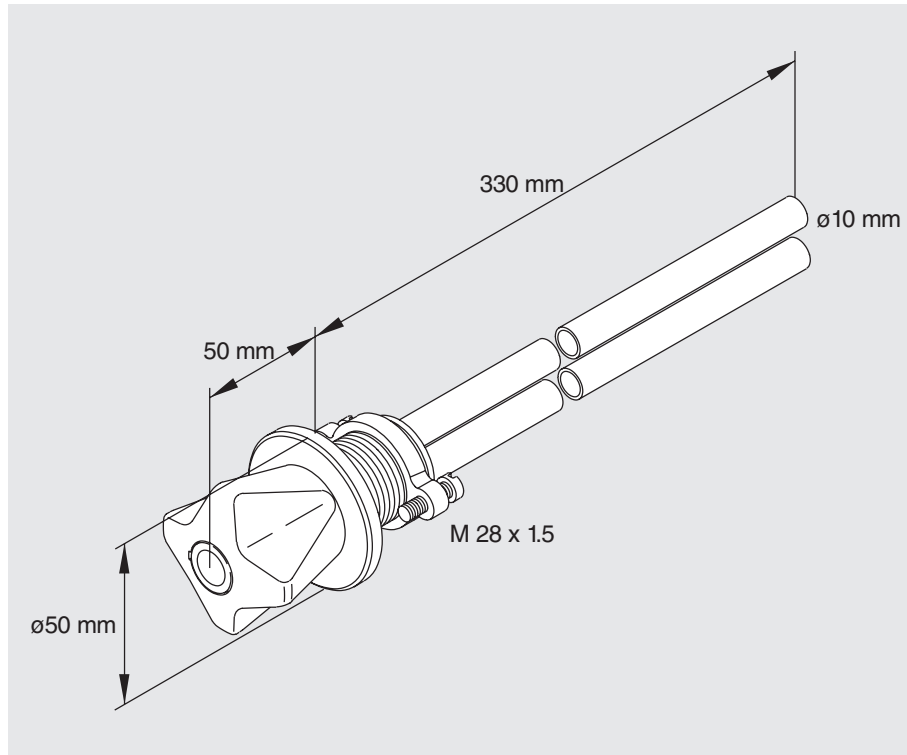
Maximum working pressure:  
10 bar/147 psi.

#### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves - for non-burning 4.0 gases



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

**15 053.009**; Front-control valve

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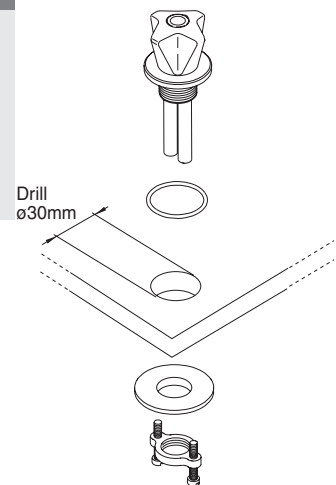
Delivered with mounting accessories.

### Materials with medium contact:

Metals:	Brass
Sealing:	Viton®
Plastics:	PVDF
Lubricant:	Approved for oxygen
Pipes:	Cu
Solder:	DIN L-Ag55:Sn

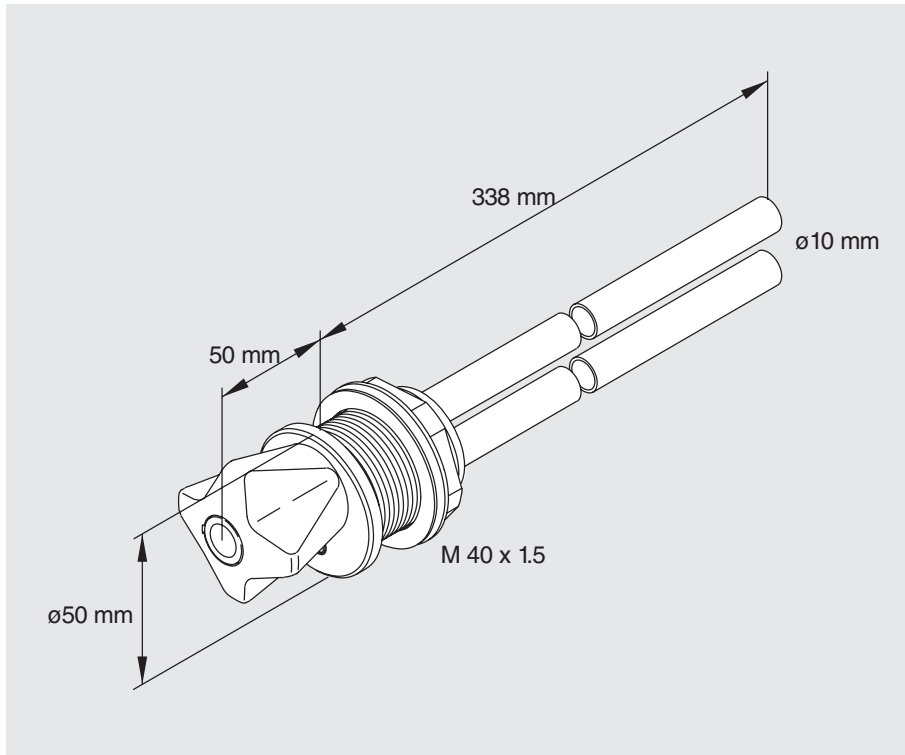
Weight: 0.6 kg  
Maximum working pressure:  
10 bar/147 psi.

### Mounting information:



## BOSS front-control valves

- for non-burning 4.0 gases  
with built-in shut-off valve



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

The valve incorporates a built-in shut off valve, which offers a number of advantages:

1. Local shut-off, e.g. in connection with product service.
2. Pre-setting for experimental purposes.
3. Media conservation.
4. Safety lock, preventing unintended opening of the fitting.

**15 063.009**; Front-control valve with built-in shut-off valve.

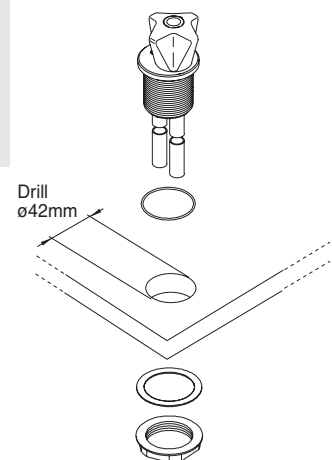
Suggested outlets: Page 10-24  
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### Materials with medium contact:

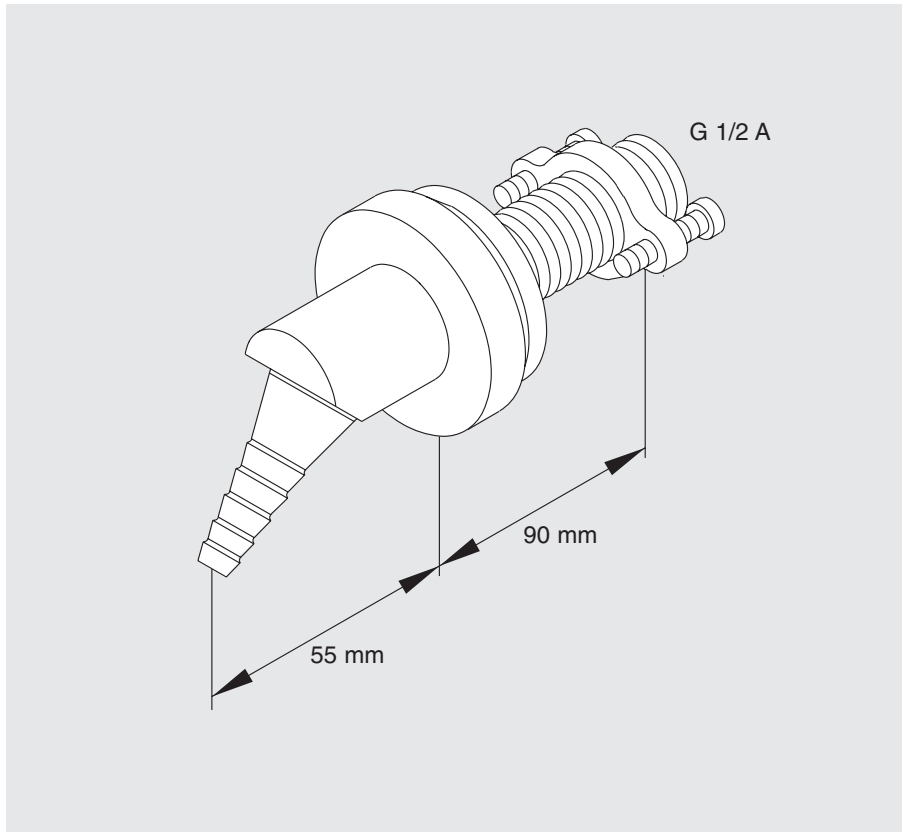
Metals:	Brass
Sealing:	Viton®
Plastics:	PVDF
Lubricant:	Approved for oxygen
Pipes:	Cu
Solder:	DIN L-Ag55:Sn

Weight: 1.0 kg  
Maximum working pressure:  
10 bar/147 psi.

Mounting information:



## BOSS front-control valves - fume hood outlet for non-burning 4.0 gases



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

**19 430.009**; Wall outlet with nozzle

Nozzle detachable with key  
No. 96K0002.

Delivered with mounting accessories.

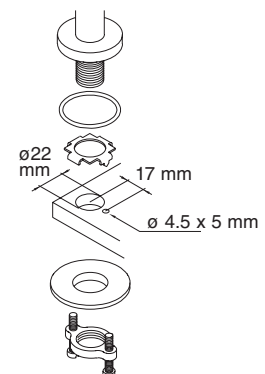
### Materials with medium contact:

Metals	Brass
Sealing	Viton®
Lubricant	Silicone based

Weight: 0.5 kg

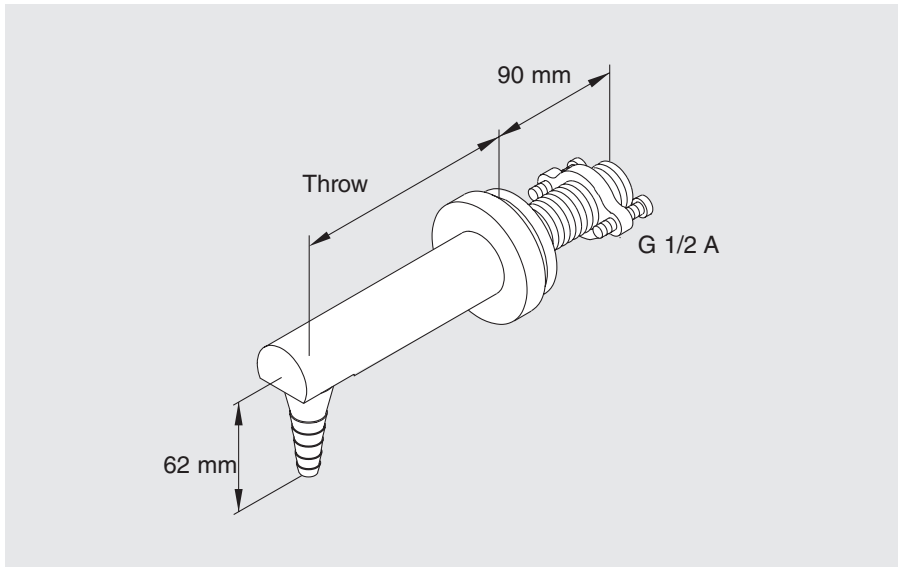
Maximum working pressure:  
10 bar/147 psi.

### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.

## BOSS front-control valves - fume hood outlet for non-burning 4.0 gases



The fittings are surface treated with BROEN POLYCOAT powder coat, which is highly resistant to most chemicals, UV fading and heat.

**19 432.009**; Wall outlet with fixed nozzle and 90 mm throw.

**19 433.009**; Wall outlet with fixed nozzle and 150 mm throw.

Delivered with mounting accessories.

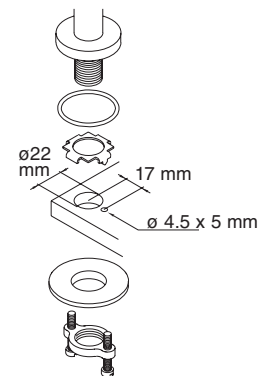
### Materials with medium contact:

Metals	Brass
Sealing	Viton®

Weight: 0.5 kg

Maximum working pressure:  
10 bar/147 psi.

### Mounting information:



Drill  $\varnothing$  22 mm for the inlet.  
Drill  $\varnothing$  4.5 mm for the locking ring at a distance of 17 mm from the center of the  $\varnothing$  22 mm hole.  
The  $\varnothing$  4.5 mm hole must be at least 5 mm deep.