Compact laboratory tapping points EM15: for non-corrosive gases **EE15:** for corrosive gases

Surface-mounted

Laboratory equipment with rear wall inlet and front outlet

Surface-mounted angle

Laboratory equipment with rear wall inlet and rear outlet

Panel-mounted

Laboratory equipment with rear wall inlet and rear outlet



Type AW



Type AE



Type EP

Valves / wall outlets

Laboratory equipment with rear wall inlet and front outlet



Type AW / EP



Panel-mounted front

Laboratory equipment with rear wall inlet and front outlet



Type EF

Wall-mounted

Laboratory equipment for wall mounting (surface-mounted pipework)



Type ES

Column-mounted

Column-mounted laboratory equipment and front outlet



Type SC

Ceiling-mounted

Laboratory equipment with top inlet and front outlet



Type DC



Compact laboratory tapping points EM15 / EE15











without valve blind without regulator

Specifications

- The special laboratory tapping points incorporate the functions shut-off, pressure regulation and pressure indication in one compact, ergonomic unit
- EM15: for non-corrosive gases up to quality 6.0
- EE15: for corrosive gases and gas mixtures with corrosive components up to quality 6.0
- The pressure regulator is diaphragm sensed for outlet pressures up to 10 bar and piston sensed for higher outlet pressure values.
- The acetone resistant pressure gauge is safely integrated into the adjusting hand wheel to create an extremely compact device.
- Integrated shut-off valve in the rear-wall connector allows the preparation of the tapping point without pressure regulator.
- Quick and easy mounting or disassembly of the regulating unit with filled gas piping.
- Diaphragm shut-off valve with position indicator
- Optional flow control / shut-off valve in the outlet
- All gas-wetted components have undergone the special SPECTROCLEAN[®] cleaning process and have been thoroughly baked out.
- For ECD-applications the devices can be treated in an extended cleaning process.
- All equipment has been 100%-helium-leak-tested using a mass-spectrometer.
- All components are plastic-covered resistant to acid and alkaline solutions.
- Acetylene version optional with flashback arrester.

Technical data

Materials

Body M15: brass

E15: SS 1.4404 (316L)

Diaphragms: Hastelloy C276

other gas wetted brass or

surfaces: SS 1.4404 (316L) Valve cone: SS 1.4404 (316L)

Valve seat: PTFE

Cover: Polypropylene GB30

Leak rate

(to atmosphere): 10⁻⁸ mbar l/s He

Filter 150 μm

Pressure ranges

Inlet P_1 (P_2 up to 10 bar): max. 40 bar

 $(P_2 > 10 \text{ bar})$: max. 100 bar

max. outlet pressure P_2 : 1,0 / 1,5 / 2,5 / 5 / 10 /

16 / 25 / 65 bar

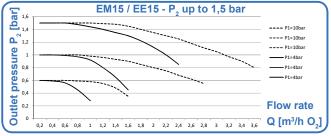
 P_2 up to 10 bar: The pressure setting will be done at 10 bar inlet pressure. The limitation of the outlet pressure setting is approx. P_2 + 5%.

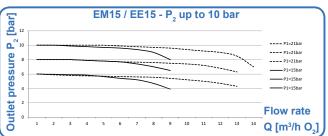
P₂ > 10 bar: The inlet pressure for the pressure setting will be done according to the customer's / user's specification.

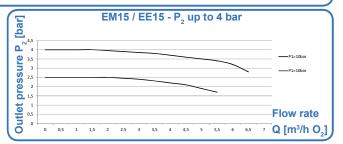
Flow rates see flow curves

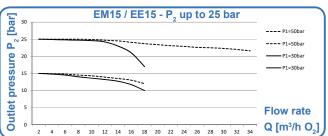
with valve in the outlet

Connection to rear-wall G 3/8" RH connector







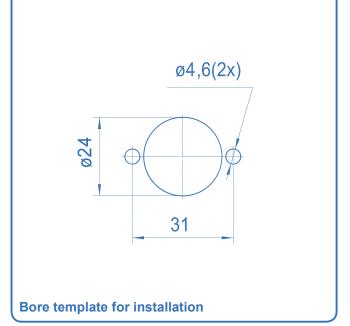




EM15 / EE15 Surface-mounted Type AW







Specifications

- The surface-mounted tapping point is used for installations into panels independent of the panel thickness.
- The surface-mounted version consists of a rear-wall connector made of brass or stainless steel respectively, a round faceplate and assembly accessories.

Technical data

Materials

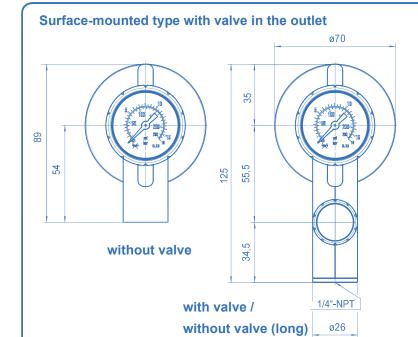
Rear-wall connector: brass or

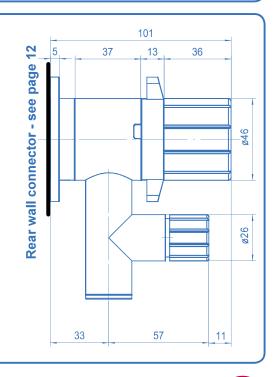
SS 1.4404 (316L)

Covers: Polypropylene GB30
Connections inlet: see ordering info

outlet: 1/4"-NPT female

Weight ca. 0.8 kg



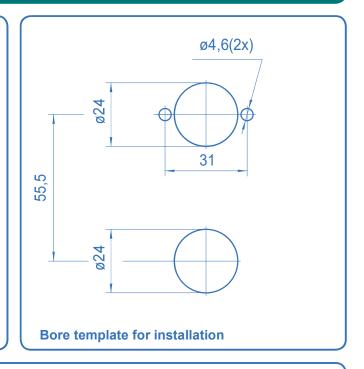




EM15 / EE15 Surface-mounted angle Type AE







Specifications

- The surface-mounted tapping point is used for installations into panels independent of the panel thickness.
- The surface-mounted angle version consists of a rear-wall connector made of brass or stainless steel respectively, a round faceplate and assembly accessories.
- · The rear outlet leads back into the panel.

Technical data

Materials

Weight

Rear-wall connector: brass or

SS 1.4404 (316L)

Covers:

Polypropylene GB30

Connections inlet: see ordering info outlet: 1/4"-NPT female

ca. 0.8 kg

Surface-mounted angle type with valve in the outlet

| OTO |

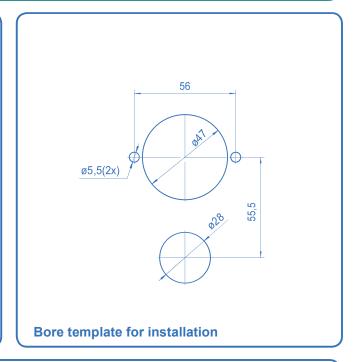


EM15 / EE15 Panel-mounted Type EP





Panel-mounted tapping point with flow control / shut-off valve



Specifications

- The panel-mounted tapping point is used for installations into panels between 2 and 8 mm thick.
- The panel-mounted version consists of an inlet adaptor made of brass or stainless steel respectively with 1/4"-NPT female thread, a plastic holder, a round faceplate (2-5 mm panel) and assembly accessories.

Technical data

Materials

Inlet adaptor: brass or

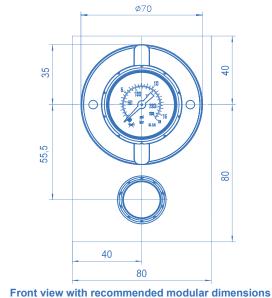
SS 1.4404 (316L)
Holder: Polypropylene GB30

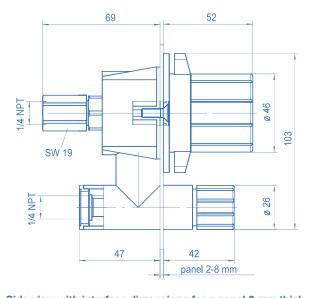
Covers: Polypropylene GB30
Connections inlet: 1/4"-NPT female

outlet: 1/4"-NPT female

Weight ca. 0.8 kg

Panel-mounted type with valve in the outlet







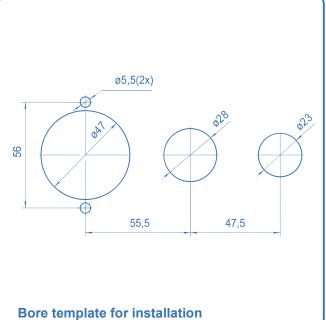


EM15 / EE15 Panel-mounted front Type EF





Panel-mounted front tapping point with flow control / shut-off valve



Specifications

- The panel-mounted tapping point is used for installations into panels between 2 and 8 mm thick.
- The front version consists of an inlet adaptor made of brass or stainless steel respectively with 1/4"-NPT female thread, a plastic holder, a round faceplate (2-5 mm panel) and assembly accessories.
- · The outlet is to the front.

Technical data

Materials

Inlet adaptor: brass or

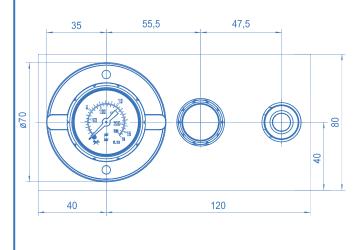
SS 1.4404 (316L) Polypropylene GB30

Holder: Polypropylene GB30 Covers: Polypropylene GB30

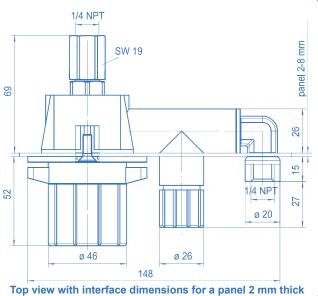
Connections inlet: 1/4"-NPT female outlet: 1/4"-NPT female

Weight ca. 0.8 kg

Panel-mounted front type with valve in the outlet



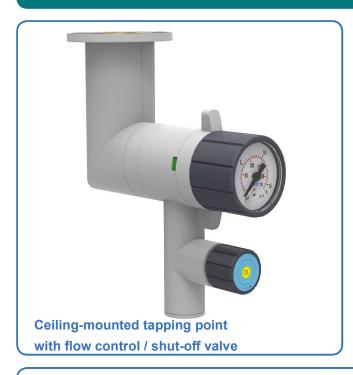
Front view with recommended modular dimensions

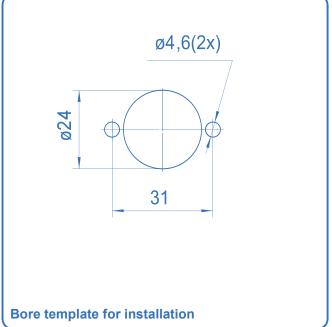




EM15 / EE15 Ceiling-mounted Type DC







Specifications

- The ceiling-mounted tapping point is used for installations at the ceiling.
- The ceiling-mounted version consists of a rear-wall connector made of brass or stainless steel respectively with an 1/4"-NPT female inlet, plastic covers, washer, a round faceplate and assembly accessories.

Technical data

Materials

Rear-wall connector

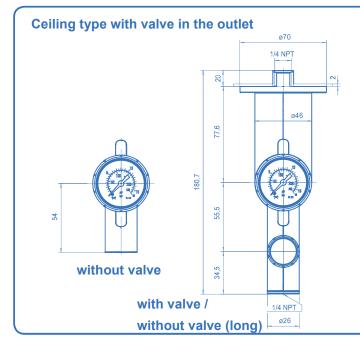
P₁ up to 40 bar Brass

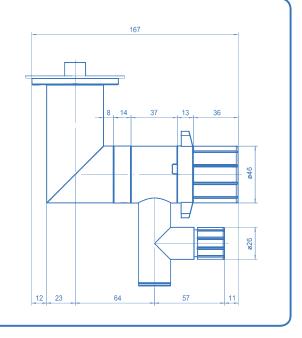
P₁ > 40 bar SS 1.4404 (316L) Covers: Polypropylene GB30 Washer: Polypropylene GB30

Connections inlet: 1/4"-NPT female outlet: 1/4"-NPT female

oddet. 1/4 -NFT left

Weight ca. 1.2 kg







EM15 / EE15 Column-mounted Type SC





Column-mounted tapping point with flow control / shut-off valve

Specifications

- The column-mounted tapping point is used for installations on laboratory benches up to approx. 90 mm thickness.
- The column-mounted version consists of a metal column body, a metal connector with a tube (6x1 mm), plastic washer, plastic covers, a round faceplate and assembly accessories.
- The plastic covers of the metal column are acid and alkaline solutions resistant.

Technical data

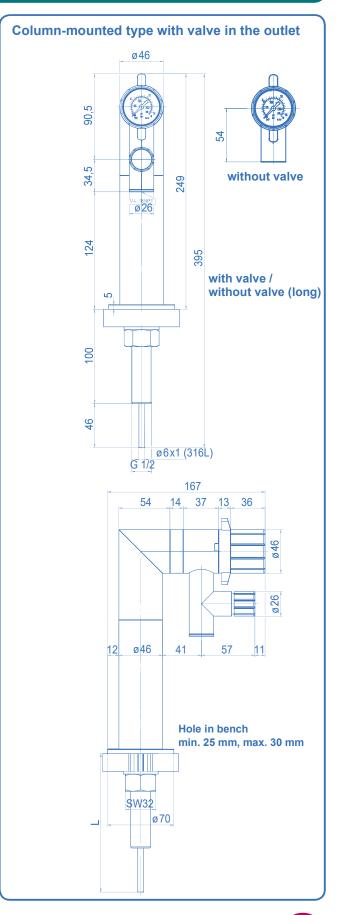
Materials

Connector: SS 1.4404 (316L)
Tube: SS 1.4404 (316L)
Column body: Aluminium

Washer: Polypropylene GB30 Covers: Polypropylene GB30

Connections inlet: tube 6x1 mm outlet: 1/4"-NPT female

Weight ca. 1.8 kg

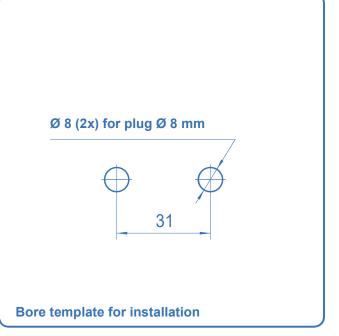




EM15 / EE15 Wall-mounted Type ES







Specifications

- The wall-mounted tapping point is used for installations with surface-mounted pipe work.
- The wall-mounted version consists of a metal wall connector to connect both the gas line and the tapping point, a round faceplate and plastic covers.

Technical data

Materials

Wall connector:

brass or SS 1.4404 (316L)

Covers:

Polypropylene GB30

Connections

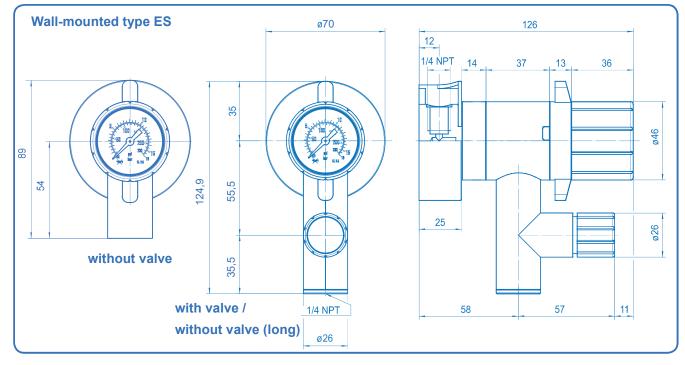
1/4"-NPT female

inlet: outlet:

1/4"-NPT female

Weight

ca. 1.0 kg

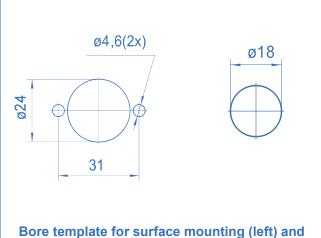




VM15 / VE15 Flow control / shut-off valves







Bore template for surface mounting (left) and panel mounting (right)

Specifications

 The flow control and shut-off valves are also available in addition to the laboratory tapping points.

(angle) and panel mounting (globe version)

- The vales come as surface- or panel-mounted type.
- There is a globe and an angle version in brass or stainless steel available.
- The vales are suitable for pressure ranges up to 100 bar

Technical data

Materials

Body, flow control spindle: brass or

SS 1.4404 (316L)

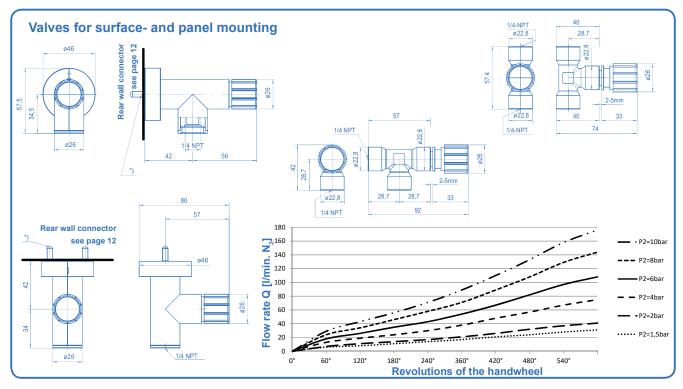
Valve seat: PTFE

Diaphragm: Hastelloy C276
Covers: Polypropylene GB30
Spring: Stainless steel 1.4310

Connections inlet: see drawings below

outlet: 1/4"-NPT female

Leak rate (to atmosphere) 10⁻⁸ mbar l/s He

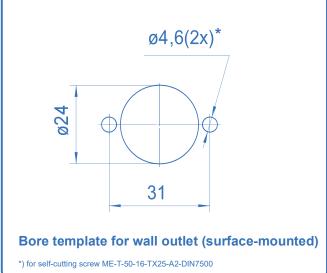




AM15 / AE15 Wall outlets







Specifications

- The wall outlets are also available in addition to the laboratory tapping points.
- The outlets come as surface-mounted type.
- There is a globe and an angle version in brass or stainless steel available.

Technical data

Materials

Body: brass or

SS 1.4404 (316L)
Valve seat: PTFE

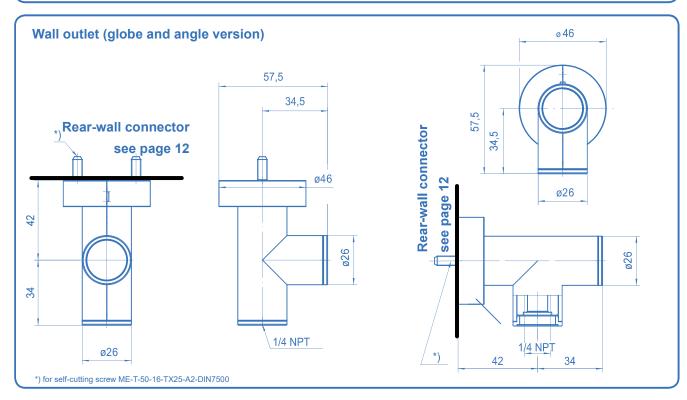
Covers: Polypropylene GB30

Spring: SS 1.4310

Connections inlet: see drawings below

outlet: 1/4"-NPT female

Leak rate (to atmosphere) 10⁻⁸ mbar l/s He





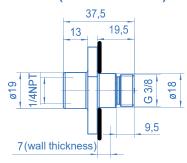
EM15 / EE15 Rear-wall connectors

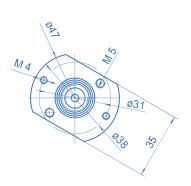




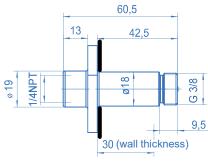
Bore template and dimensions

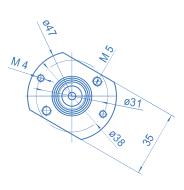
1/4"-NPT female / 7 mm wall thickness (rear installation)



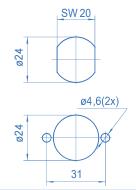


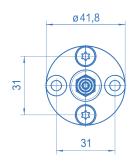
1/4"-NPT female / 30 mm wall thickness (rear installation)

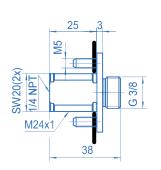




1/4"-NPT female + M24x1 male (front installation)









EM15 / EE15 Ordering information



Ordering information: Tapping points EM15 / EE15 series

EM 15 - AW - 10 - 0 - V - Ar/H2

Material

Brass

Ε Stainless steel

Type

AW Surface-mounted

ΑE Surface-mounted angle version

ΕP Panel-mounted

EF Panel-mounted front

DC Ceiling-mounted

SC Column-mounted

ES Wall-mounted

GG Basic regulator w/o rear-wall conn. (G 3/8" RH)

Pressure range

1,0 max. outlet pressure 1,0 bar

1,5 max. outlet pressure 1,5 bar

2,5 max. outlet pressure 2,5 bar

5 max. outlet pressure 5 bar

10 max. outlet pressure 10 bar

max. outlet pressure 16 bar (piston version up to P_{1.max.} = 100 bar) 16

max. outlet pressure 25 bar (piston version up to P_{1.max.} = 100 bar) 25

max. outlet pressure 65 bar (piston version up to $P_{1,max}$ = 100 bar) 65

0 Rear-wall connector incl. shut-off valve without pressure regulator

Gas type

Please specify with order

Outlet

1/4"-NPT female

CM3/6/... Compression ring brass [DN] CE3/6/... Compression ring SS [DN] SM Hose connector brass SE Hose connector SS

CSM(E) Compr. ring+hose connector

FS Flashback arrestor

1/4"-NPT female (long)

LCM3/6/... Compression ring brass [DN] LCE3/6/... Compression ring SS [DN] LSM Hose connector brass

LSE Hose connector SS

LCSM(E) Compr. ring+hose connector

Valve (1/4"-NPT female) VCM(E)6 Valve with compression ring VSM(E) Valve with hose connector VCSM(E) Valve + compression ring

and hose connector

В Blind w/o pressure regulator

Inlet

NPT

X

EP/EF: 1/4"-NPT female DC/ES: 1/4"-NPT female 0 **AW/AE:** 1/4"-NPT f / 7 mm L7 **AW/AE:** 1/4"-NPT f / 30 mm L30

> AW/AE: 1/4"-NPT female + M24x1 male

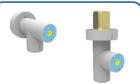
CM6/8/... Compression ring brass [DN] CE6/8/... Compression ring SS [DN] CM(E)6w angle compression ring [DN] RS

SC: SS-tube stub 6x1mm without rear-wall connection



Ordering information: Valve / Wall outlet

VM 15 - AW - 0 - EV - 0 - Ar/H2



Model

V Valve Wall outlet Δ

Material

brass

Stainless steel

Type

see above

GG Basic unit w/o rear-wall conn. (G 3/8" RH)



Gas type (see above)

Outlet (see above)

Version

DV Globe version ΕV Angle version

Inlet (see above)

