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1 Application

1.1 Designated use

- The fittings of the tapping points are designated for the withdrawal of special and high purity gases.
- These fittings may only be used for the gas type for which they are recommended and approved (see product labeling).

1.2 Non-designated use

- The fittings must not be used at temperatures below -30°C and over $+60^{\circ}\text{C}$.
- The fittings must not be used for incompatible or corrosive gases (see product labeling).
- Do not use the tapping points for gases in the liquid phase
- Check with your supplier in case of doubt.

2 Safety instructions

- All items of information marked are valid as special safety instructions.
- These pressure regulators adhere to state-of-the-art technology and to the demands of the existing standards and regulations.
- Changes or modifications are not allowed to be made to the pressure regulator without the prior consent of the manufacturer.
- The result of improper handling and improper use as intended can involve risks for the user and other persons as well as damage to the device.
- The equipment must be operated by suitable trained personnel only.
- Regulations to be adhered to:
 - BGV A1 (VBG 1), "General specifications"

- BGV B6 (VBG 61), "Gases"
- BGV B7 (VBG 62), "Oxygen"
- Guidelines for Laboratories (Zh 1/119)

Special attention has to be paid to the country specific laws, regulations and procedures concerning the use of this type of equipment.



- Use only for gas types the pressure regulator is labelled for (see item 3).
- Do not use at temperatures below -30 °C or above +60 °C.
- Open valves generally slowly!
- All parts possibly coming into contact with oxygen must be kept free of oil and grease because of fire or explosion hazard!
- Smoking or open fire (e.g. candles) in the vicinity of the gas supply system is strictly prohibited because of fire and explosion hazard!

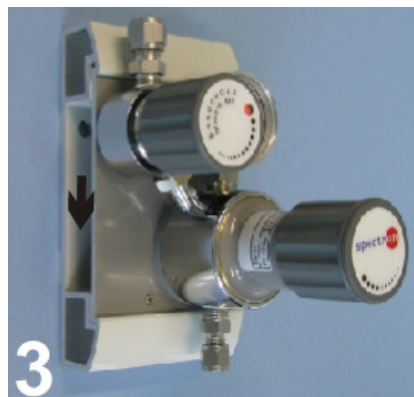
3 Installation

Before assembling the individual components, check that the threads and the connection seals are clean and undamaged.

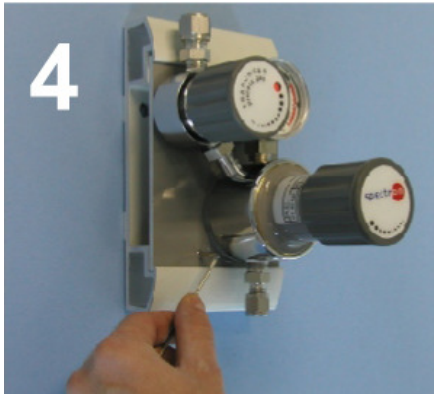
- 3.1 Secure the base section to the wall with the two screws provided (fig. 1)



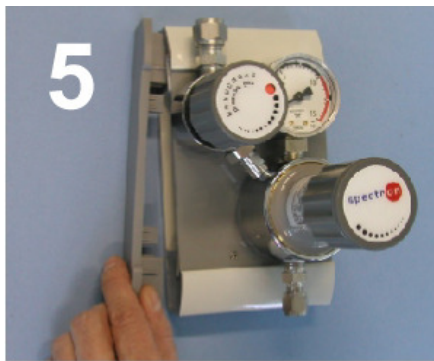
- 3.2 Slide the mounting plate into the upper slot of the basic frame (fig.2). Insert in the basic frame and let it slide into the lower slot. (Fig.3).



3.3 Secure the mounting plate by tightening the small screw with an allen key. (Fig.4).



3.4 Clic the side plugs into the basic frame. (Fig.5)



3.5 To connect NPT fittings to the shut-off valve or the regulator - wind Teflon tape (PTFE) clockwise around tapered $\frac{1}{4}$ - 18 NPT thread (5 to 10 turns), while leaving the first thread-turn unwinded. Connect the parts properly and reassure that the connection is gas tight.

3.6 Connect the gas supply/discharge line to the tube fitting of the shut-off valve.

- Insert the properly debured pipe fully into the tube fitting.
- Hand-tighten the union nut.
- Tighten the union nut by $1 \frac{1}{4}$ turns with a wrench while countering the fitting with a second wrench (Fig. 6).

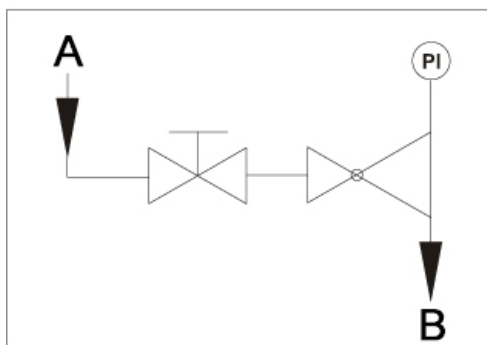


Support sleeves must be used to ensure a proper connection of plastic hoses with clamp or crimp connections.

Hoses which are attached to hose coupling nipples must be secured with hose clips. Check their suitability for the application (rated pressure).

- 3.7 After connection to the supply system, check all connections for leaks, e.g. with a helium mass spectrometer. Before starting up, the tapping point must be purged with dry, inert gas, especially in the case of using corrosive gases (pressure build-up purging 5-10 times).

Scheme



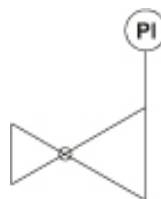
A: Inlet

B: Outlet

Legend



Shut-off valve



Tapping point
pressure regulator