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GPR-S-120



Gas Pressure Regulator

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1 introduction

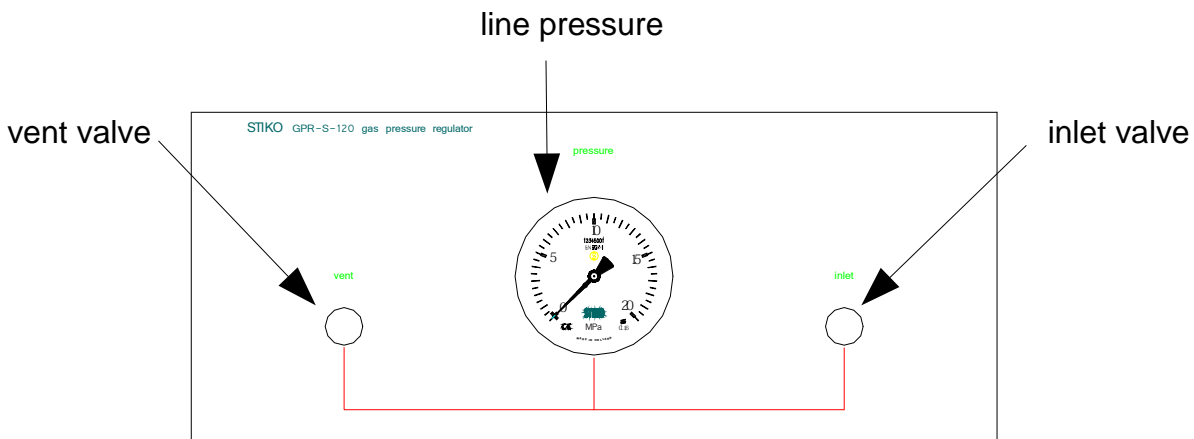
1.1 general product description

The GPR-S-120 is designed to manually set and adjust gas pressures between atmosphere and 12 MPa in high line applications. For this the GPR-S-120 has 2 special regulating valves.

1.2 specifications

pressure range	0 .. 12	MPa g
max. supply pressure	20	MPa g
inlet, vent connections	1/4" BSP female, with adapters to 12.15 minimes	
instrument connections	3/8"bsp LH, with adapters to 1/2"; 3/8"; 1/4"; 1/8"bsp	
housing	painted aluminium RAL7035	
width x height x depth	340 x 180 x 360	mm
weight	4	kg

1.3 front panel



1.4 rear panel



2 installation

2.1 as received

The GPR-S-120 is sealed in plastic and packed in an export quality carton box. When opening the box, compare the contents to the delivery note.

2.2 site requirements

The GPR-S-120 should be placed on a firm and stable table. Preferable pressure source is a nitrogen class 5.0 bottle with pressure reducer. Although the GPR-S-120 can handle 20 MPa inlet pressure directly, more predictable pressure control is achieved when the inlet pressure can be regulated slightly higher than the pressure requested.

2.3 set up

The GPR-S-120 pressure connections for inlet and vent are 1/4" BSP female with adapter to 12.15 minimess tubing. The pressure connections (of the reference instrument and the instrument under test) are supplied with 3/8" bsp left handed thread including adapters to standard bsp thread. A multiseal is used for sealing. To mount the instruments tighten the adapters by hand.

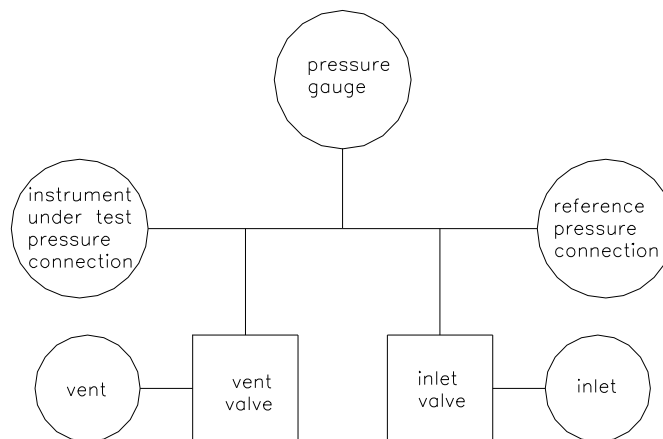
- Connect the INLET port to a suitable source of clean nitrogen.
- Connect (hand tight) the REF port to the reference devices.
- Connect (hand tight) the TEST port to the device under test.
- The VENT port may be connected to a tube with internal diameter > 4 mm connected to atmosphere outside the direct working environment, but in normal operation this is not obligatory due to the small amount of nitrogen consumption.

! do not plug or shut off the VENT port.

3 operating GPR-S-120

3.1 operating principle

GPR-S-120 manually controls line pressure from atmosphere to 12 MPa through the use of two valves and a pressure gauge.



3.2 increase / decrease the pressure

Increasing the pressure

Make sure the vent valve is closed. Slightly open the inlet valve. When the desired pressure has been reached close the inlet valve. If the desired pressure has accidentally been exceeded blow off some pressure by opening the vent valve shortly and immediately close it again.

Decreasing the pressure

Make sure the inlet valve is closed. Open the vent valve slightly to blow off all pressure. To slightly decrease the pressure open the vent valve shortly and close it immediately.

3.3 valves

Two needle valves are used to adjust the pressure.

3.4 analogue pressure indicator

A 0 to 200 bar dial pressure gauge is connected to the pressure circuit. The gauge has a dual function:

- As a safety device since it is important for the operator to know the value of system pressure at all times.
- As a means to assist the operator in setting pressure.

4 maintenance

GPR200D is configured from standard components which are maintenance free. In case of failure of one of the sub-assemblies please contact the manufacturer for repair instructions.

5 part list

<i>part</i>	<i>partnumber</i>	<i>remark</i>
adapter 3/8"bsp LH – 1/2"bsp	E27-301-14	brass
adapter 3/8"bsp LH – 3/8"bsp	E27-301-26	brass
adapter 3/8"bsp LH – 1/4"bsp	E27-301-15	brass
adapter 3/8"bsp LH – 1/8"bsp	E27-301-25	brass
multiseal	065-260-09	Ø13.2 x 6.9 x 1.3
minimess tube	S100-AA-AA-0100	minimess: 1 m, 12.15
minimess coupling 1/4"bsp – 12.15	2101-01-18.00	minimess



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