Dome pressure regulator D 1 1/2



Gauges optional

TECHNICAL DETAILS

Material: Brass or

stainless steel 1.4404

Valve seat: Ø 19

Cv-value: 7,3

Seat: EPDM or FKM

Diaphragm: EPDM or FKM

Max. inlet pressure: 110 bar

Outlet pressure

ranges: up to 12 bar

up to 100 bar

Operating temp.: -40°C to +150°C

Dimensions: Ø 149 x 190 mm

Weight: 16,7 kg

Connections: Inlet / outlet G 1 1/2"

Gauge NPT 1/4"
Dome screw NPT 1/4"

APPLICATION AREA

The dome pressure regulator is used as a line pressure regulator.

Without exchanging parts it is suitable for a large outlet pressure range. Dependent on the used material, the pressure regulator is applicable for different gases and liquids.

We urgently recommend the connection of a fine filter with max. 40 μ at the inlet of the pressure regulator. Subsequent components and plant components must be protected by separate safety valves.

DESCRIPTION

Dome pressure regulators are characterized by an accurate regulation and a large throughput.

The dome pressure regulator works according to the principle of the pressure balance between dome pressure and outlet pressure.

A large independence from fluctuation of the inlet pressure is reached with a balanced poppet.

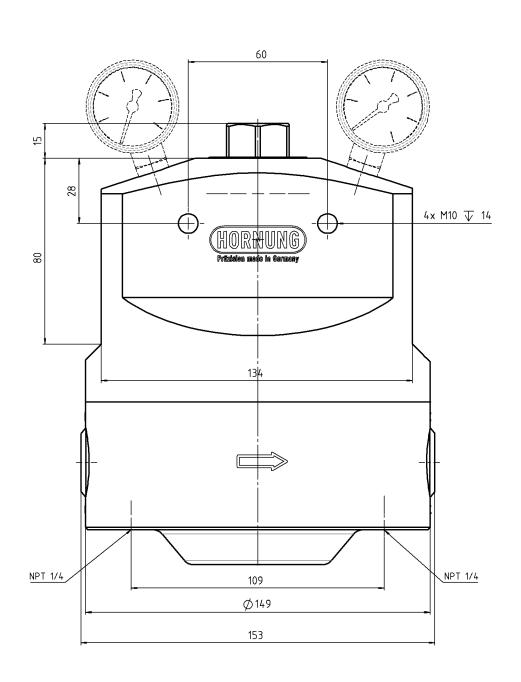
If the dome pressure regulator is used for the pressure control of gases, the dome pressure can be controlled by needle valves.

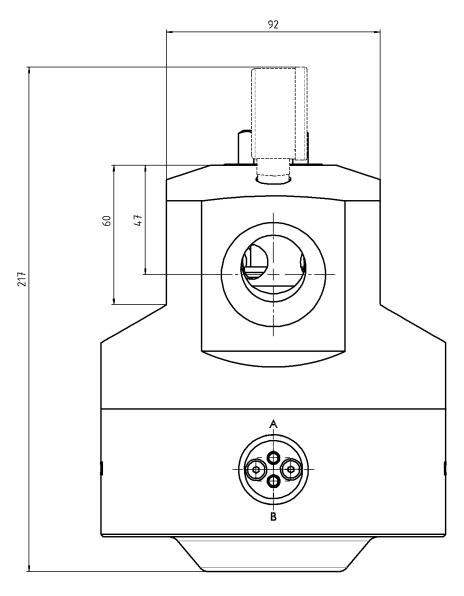
For the pressure regulation of liquids and aggressive gases, the dome can be filled with compressed air or nitrogen externally, by means of a pilot pressure regulator.

QUALITY STANDARD

The company Hornung is certified to **DIN EN ISO 9001:2015** and **ISO 14001:2015**. All single parts are manufactured, assembled and tested by in-house production. The finished parts are therefore under all criteria of German quality control with 100% final inspection.

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REGULATING WITH PILOT PRESSURE REGULATORS

If the outlet pressure is to be adjusted more frequently, set more precisely or controlled remotely, the use of a control valve is recommended. A control valve is attached instead of the plug at the dome of the pressure regulator.

Control valves are spring loaded pressure regulators, so called pilot regulators. When operating with dome pressure regulators of this size, our special P.I.D.-regulators with integrated pilot regulators or proportional valves are used.

DYNAMIC PRESSURE REGULATION

A dynamic pressure control is reached by means of an integrated needle valve in the dome of the pressure regulator.

By slightly releasing the control medium into the process gas line, the control medium is constantly re-feed.

When using liquids in the pilot regulator, the control medium is slightly released into the atmosphere, which leads to a re-feed of the pilot regulator.

According to this function, the pressure inside of the dome can be held constant even in the event of temperature or flow variations.

	ORDER DETAILS								
Material/ pressur 1 = brass 100 ba 2 = stainless ste 3 = brass 12 bar 4 = stainless ste	ar el 100 bar	Diaphrag 1 = EPDI 2 = FKM	M	0 =	none with inlet- and outlet gauge		et / Outlet: = G 1 1/2" - Inte	ernal thread	
Regulator type 360-	D 1 1/2		360- Type	2 Material/ pressure	1 Diaphragm	1 Gauges	0 In-/outlet	Gas type Gas type	

Accessories: see total catalogue segment

- Flanges, gauges, tube ttings und accessories
- Fine filter F1, safety valves available on request
- Wall mounting bracket