

Dome pressure regulator DH1

- with a pilot pressure regulator



Flanges, soleniod
valve, gauges optional

Description:

Dome pressure-regulators are characterised by 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 fluctuations is reached with a balanced poppet. If the dome pressure regulator is used for the pressure control of gases, the dome pressure can controlled with the needle valves on the inlet pressure side. For the pressure regulation of liquids the dome is filled externally with compressed air or nitrogen by means of a pilot pressure regulator.

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. Independent of the used material the pressure-regulator is applicable for different gases and liquids.

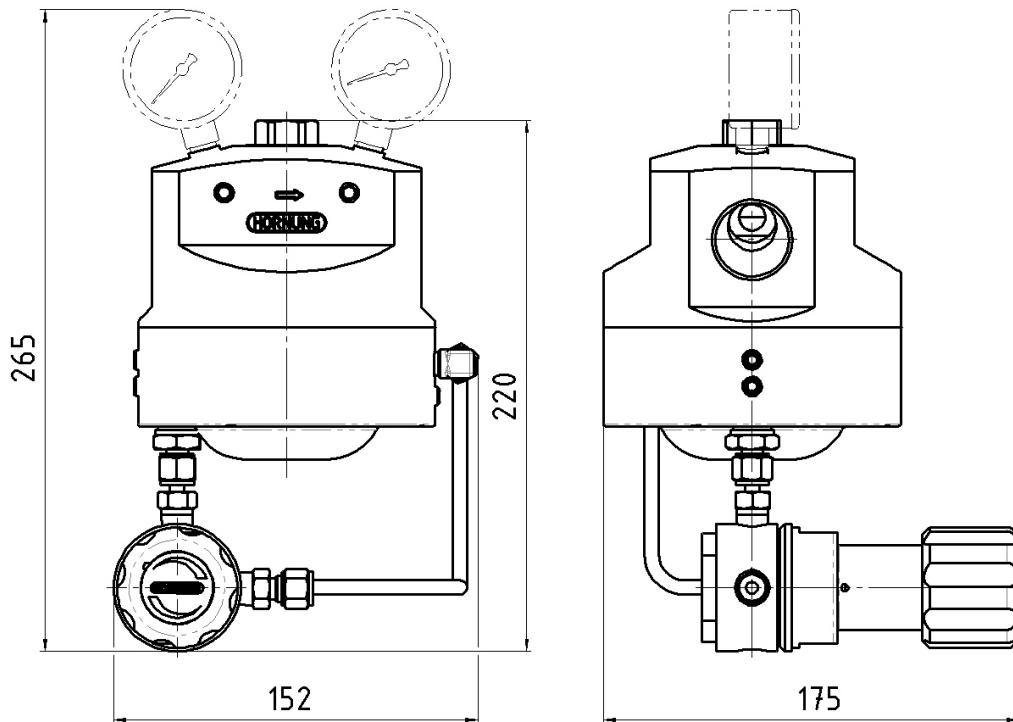
We urgently recommend the connection of a fine filter, with at least 40µ, before the pressure regulator, as well as to protect following components with suitable relief valves against unduly high pressures.

Technical details:

Material:	brass or st. steel
Valve seat:	Ø 6,35 Ø 12,7 (balanced)
Kv-value:	0,3 (Ø 6,35)
Kv-value:	3,3 (Ø 12,7)
Seat:	PCTFE
Membran:	EPDM
Max. Inlet pressure:	420 bar
Regulating area:	1,0 – 380 bar
Operating temp.:	-20°C up to +60°C
Size:	Ø125 x 140
Weight:	12200g
Connections:	in / outlet G 1 gauge G1/4

Hornung Quality standard

The company Hornung is certified to **DIN EN ISO 9001 and ISO 14001:2009**. All single parts are manufactured, assembled and tested in house. The finished parts are therefore under the criteria of our exact quality control with 100% final control.



Operating variations:

Regulating with Pilot pressure regulators:

If the initial pressure is to be more frequently adjusted, precisely preset or changed from the distance, then the use of control valves is recommended.

A control valve is attached in place of the plug at the dome of the pressure regulator. As control valves, spring-tensioned pressure reducing valves, so-called pilot pressure regulators(see in particular our type " HD400 ") or proportional valves come into use.

Dynamic pressure regulation:

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

By slight releasing the control medium into the atmosphere the control medium is constantly re-fed. Thereby in the dome area of the pressure-regulator when there are variations in temperature and flow, high pressure stability is reached.

Order details:

Material:

1 = brass
2 = stainless steel

Seat:

0 = Ø 6,35
1 = Ø 12,7 (balanced)

Diaphragm:

1 = NBR
2 = viton

Gauges:

0 = none
1 = with inlet and outlet gauges

Option at Inlet / Outlet

0 = G1" Internal thread

Order example:

Regulator type	
38P	DH1

38P-	1	1	1	1	0	Medium
Typ	Mat.	Seat	Diaph.	Gauge	Option	Medium

Accessories:

7. Gauges, tube fittings und accessories
8. Fine filter F1 (see data sheet), safety valves available on request