

Cylinder pressure regulator HP 104

- single stage with balanced main valve in brass, nickel and matt chrome plated or stainless steel



Fittings optional

Description:

The pressure regulator HP 104 is a single stage cylinder pressure regulator with balanced main valve for improved performance (significantly improved outlet pressure accuracy similar to a dual-stage regulator) in stainless steel 1.4404 or brass nickel and chrome plated and has been developed especially for the gas supply from single small cylinders (e.g. lecture bottles).

- The HP 104 regulator is fitted as a standard with gas specific connections to DIN 477 or any other common national standard and can be connected without the use of special tools.
- The integrated inlet pressure compensation ensures a constant operating pressure during drainage of gas cylinder.
- Ergonomic design, compact dimensions low weight, optimised handling and a minimised gas-wetted surface are the main attributes of HP 104 regulator.
- An accurate pressure control and a strict gas blockage enables a distinct and measurable withdrawal of gas and an ideal gas supplience.
- A specially designed blow-off valve prevents the incurrance of overpressure within the operating pressure range.

Technical details:

Body:	stainless steel 1.4404 electropolished or brass, nickel and chrome plated
Seat:	PCTFE
Diaphragm:	1.4435 / hastelloy
Leakage rate: against atmosphere	10^{-8} mbar l/s He
Gas purity:	≤ 6.0
Max. Inlet pressure:	200 bar
Outlet pressure ranges:	0,5 - 4; 1-10 bar or: fix adjusted
Operating temp.:	-20°C to +70°C
Gauges:	safety version to EN 837-1 KL1,6
Size (WxHxD):	106 x 97 x 112
Weight:	700g
Threads:	NPT 1/8" f

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 by in-house production. The finished parts are therefore under all criteria of German quality control with 100% final inspection.

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Application Area

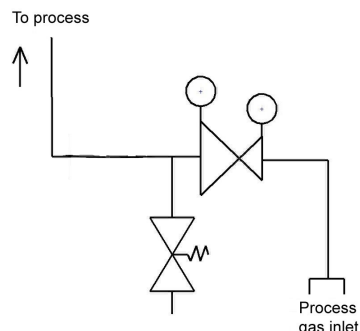
For gases with high requirements such as gas safety, impermeability and purity of up to 6.0.

Special and pure gas applications, the HP 104 is ideal for use in the following areas:

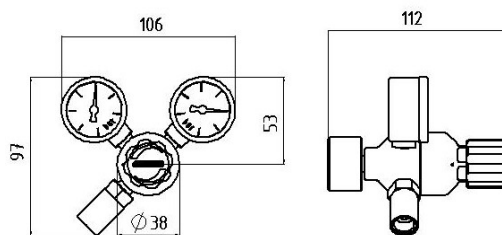
- Pharmaceutical
- Chemical
- Petrochemical
- Environment protection
- Space and aviation technology
- Automotive engineering
- Food processing
- Science and research

Generally in all sectors where high requirements are attached to the withdrawal of gas.

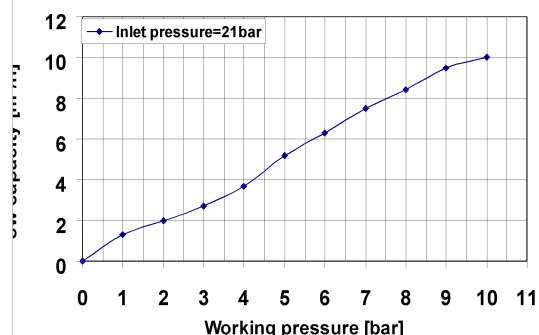
Flow diagram



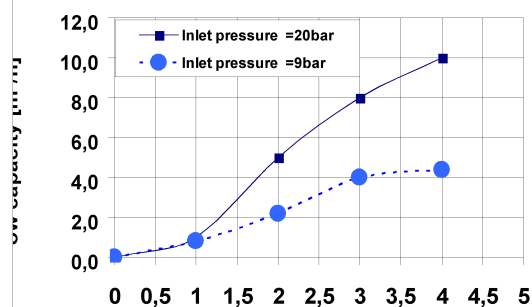
Dimensions



Flow curve HP 104 to 10bar



Flow curve HP 104 to 4bar



Accessories:

See total catalogue segment

5. Diaphragm shut-off and metering valves
7. Gauges, screws, compression fittings, cylinder holders and accessories

Ordering information:

Material:

- 1 = Stainless steel
- 2 = Brass

Pressure outlet ranges:

- 1 = 0,5 - 4 bar
- 2 = 1 - 10 bar
- 4 = 0,5 - 4 bar (fix adjusted)
- 5 = 4 - 10 bar (fix adjusted)

Options for the outlet:

- 0 = 1/8" NPT – internal thread
- 1 = compression fitting 6mm
- 2 = diaphragm shut-off valve
- 3 = diaphragm metering valve

Order example:

Druckreglertyp	
70	HP104

70-	1	2	2	Gas
Type	Mat.	Pressure	Option	Gas type

HP 104 - 02 - 00 - Gasart

Druckreglertyp Druckbereich Option Gasart