Precision pressure regulator FR 1 - single stage with balanced main valve for mbar applications and instrumentation



Fittings and gauges optional

TECHNICAL DETAILS

Body: aluminium anodised or

stainless steel

Valve seat: stainless steel

Gaskets: viton / NBR

Diaphragm: viton / NBR /

stainless steel

Max. inlet pressure: 12 bar

Outlet pressure

50 mbar - 7,0 bar range:

Operating temp.: -20 to +70°C

Dimensions: 106 x 48 mm

Weight: 240 g

Threads: NPT 1/8" f

in- / outlet

APPLICATION AREA

The precision pressure regulator FR1 is used particularly in the following areas:

- Gas analysis
- Gas chromatography
- Instrumentation
- Process engineering
- Metallurgy
- Laboratory applications
- mbar applications

DESCRIPTION

The FR 1 is a single-stage precision pressure regulator with balanced main valve.

The FR 1 is for installation in piping systems, for installation in control panels or for integrating in instruments (instrumentation).

The Integrated balanced poppet ensures that even when inlet pressure drops down a constant operating pressure is guaranteed (dual stage effect).

An easily replaceable sinter metal filter element is integrated into the pressure regulator as standard.

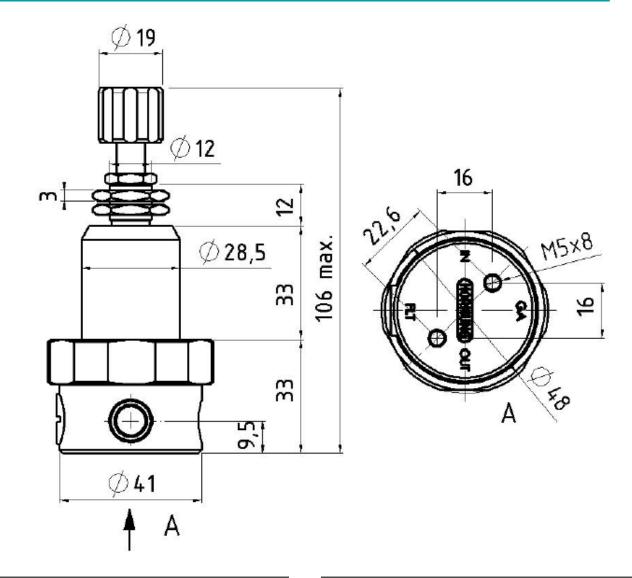
QUALITY STANDARD

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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FR 1

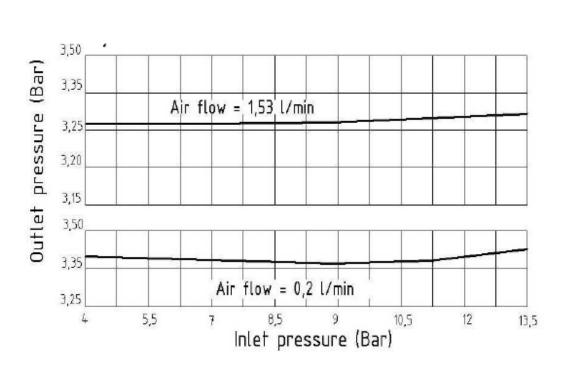


PERFORMANCE CURVE

2,5 Standard L/Min Air 2 1 2 3 4 5 10 20 30 40 5

Accessories: See total catalogue segment

FLOW DIAGRAM



7. Gauges, compression fittings and accessories 9. Console

ORDER DETAILS								
Material: 1 = aluminium 2 = stainless steel (1.4404)	Diaphragm: 1 = NBR 2 = viton 3 = stainless steel (1.4435) 4 = hastelloy (2.4610)	Gaskets: 1 = NBF 2 = vitor	₹ 0	auge: = none = outlet gauge		Pressure 1 = up to 2 = up to 3 = up to 4 = up to 5 = up to 6 = up to 7 = up to	170 mbar 350 mbar 500 mbar 700 mbar 2,1 bar 4,2 bar	
Regulator type 27 FR 1	27- Type	2 Material	3 Diaphragm	2 Gaskets	1 Gauge	4 Pressure	Gas type Gas type	