Dome pressure regulator DH 3/4



Fittings and gauges optional

TECHNIC	CAL DETAILS	APPLICATION AREA	DESCRIPTION		
Material:	Brass or stainless steel (1.4404)	The dome pressure regulator is used as a line pressure regulator.	Dome pressure regulators are characterized by an accurate regulation and a large throughput.		
Valve seat:	Ø 10	Without exchanging parts it is suitable for a large outlet pressure range. Dependent on	The dome pressure regulator works according		
Cv-value:	2,0	the used material, the pressure regulator is applicable for different gases and liquids.	to the principle of the pressure balance bet- ween dome pressure and outlet pressure.		
Seat:	PCTFE	We urgently recommend the connection of	A large independence from fluctuation of the		
Diaphragm:	EPDM or FKM	a fine filter with max. 40 μ at the inlet of the pressure regulator. Subsequent components and plant components must be protected by	inlet pressure is reached with a balanced poppet.		
Max. inlet pressure:	320 bar brass 420 bar stainless steel	separate safety valves.	If the dome pressure regulator is used for the pressure control of gases, the dome pressure		

	420 bar stainless steel	pressure control of gases, the dome pressure can be controlled by needle valves.
Outlet pressure		
range:	up to 300 bar brass	For the pressure regulation of liquids and
	up to 400 bar stainless steel	aggressive gases, the dome can be filled
		with compressed air or nitrogen externally, by means of a pilot pressure regulator.
Operating temp.:	-40°C to +150°C	by means of a phot pressure regulator.
Dimensions:	Ø 93 x 129 mm	
DIMENSIONS.	Ø 93 X 129 IIIII	
Weight:	4,6 kg	
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Connections:	Inlet / outlet	
	G 3/4" or NPT 3/4"	
	Gauge NPT 1/4"	
	Dome screw NPT 1/8"	
	Dome Screw NFT 1/0	

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.



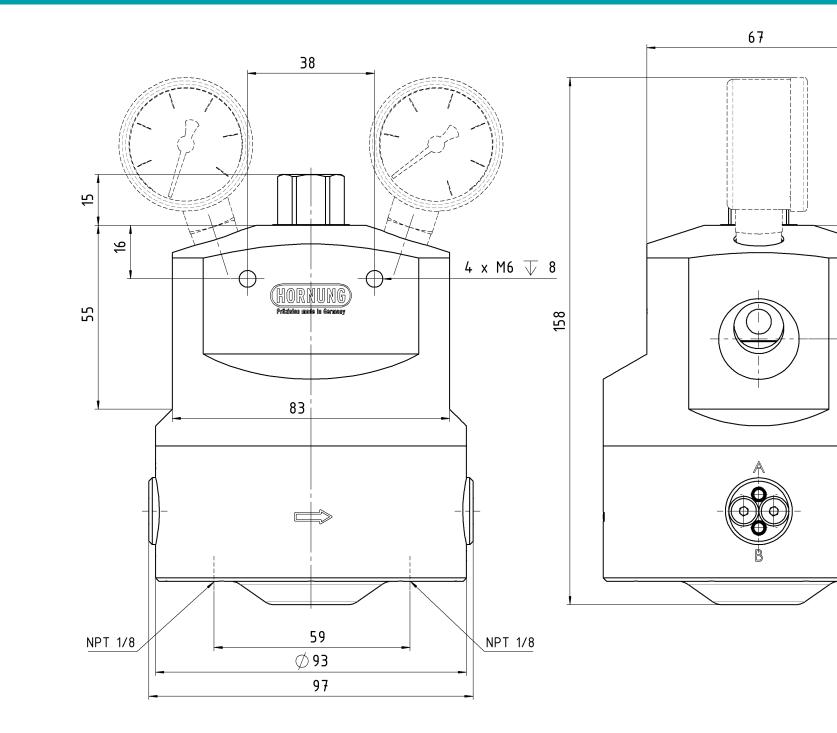
Rathenaustraße 55 63263 Neu-Isenburg

Phone: +49 6102 7883-70 Fax: +49 6102 7883-40 www.hornung.org info@hornung.org

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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: 1 = brass 300 bar 2 = stainless steel 400 bar	Diaphragm: 1 = EPDM 2 = FKM		Gauges: 0 = none 1 = with ir outlet	nlet and gauge	0 =	ion at inlet / o G 3/4" - interr NPT 3/4" - int	nal thread					
Regulator type 321- DH 3/4		321- Туре	2 Material	1 Diaphragm	1 Gauges	0 In-/outlet	Gas type Gas type					
Accessories: see total catalogue segment			 5. Pilot pressure regulators, flanges 7. Gauges, fittings and accessories 8. Fein filter F1, safety valves available of 			9. Wall mounting bracket on request						