

Dome pressure regulator PIDH 2

- with integrated pilot regulator - P.I.D.



Fittings and gauges optional

TECHNICAL DETAILS		APPLICATION AREA	DESCRIPTION
Material:	Stainless steel (1.4404)	The dome pressure regulator is used as a line pressure regulator. Without exchanging parts it is suitable for a large outlet pressure range.	Dome pressure regulators with integrated pilot regulators are characterised by an accurate regulation and a large throughput.
Valve seat:	26 mm		
Cv-valve:	13,7	Independent of the used material the pressure regulator is applicable for different gases and liquids.	The dome pressure regulator works according to the principle of the pressure balance between dome pressure and outlet pressure.
Seat:	PCTFE		
Diaphragm:	EPDM or FKM	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.	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 be controlled with the needle valves on the inlet pressure side.
Max. inlet pressure:	320 bar		
Outlet pressure range:	1 - 12 bar 1 - 17 bar 5 - 50 bar 5 - 100 bar 10 - 300 bar		
Operating temp.:	-40°C to +150°C		
Size:	Ø 177 x 305 mm		
Weight:	22,5 kg		<p>Special characteristics: The P.I.D. combines the advantages of a dome pressure regulator and a pilot regulator in just one complete and compact pressure regulator. This design is very space saving and easy to assemble and handle.</p>
Anschlüsse:	In- / outlet G 2" gauge NPT 1/4" dome-screw NPT 1/4"		

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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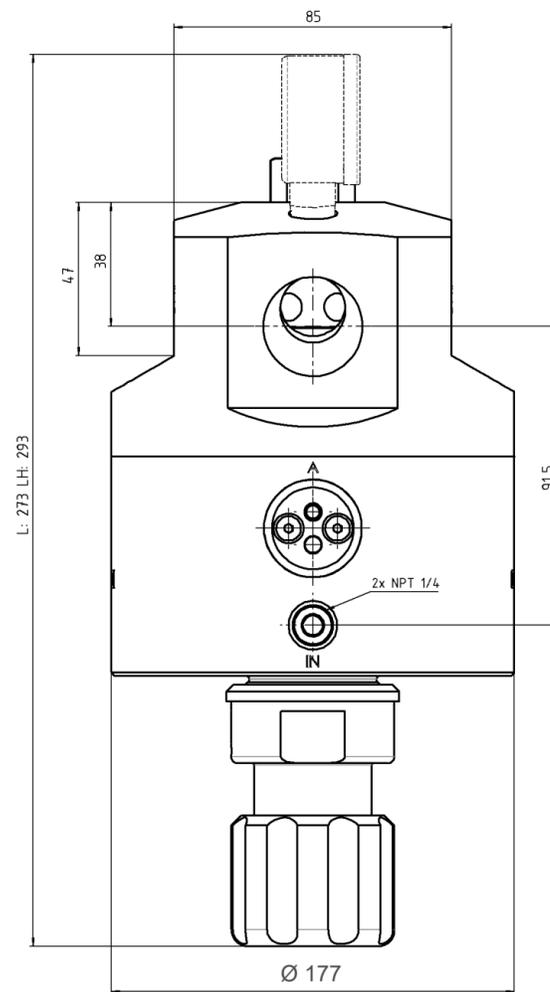
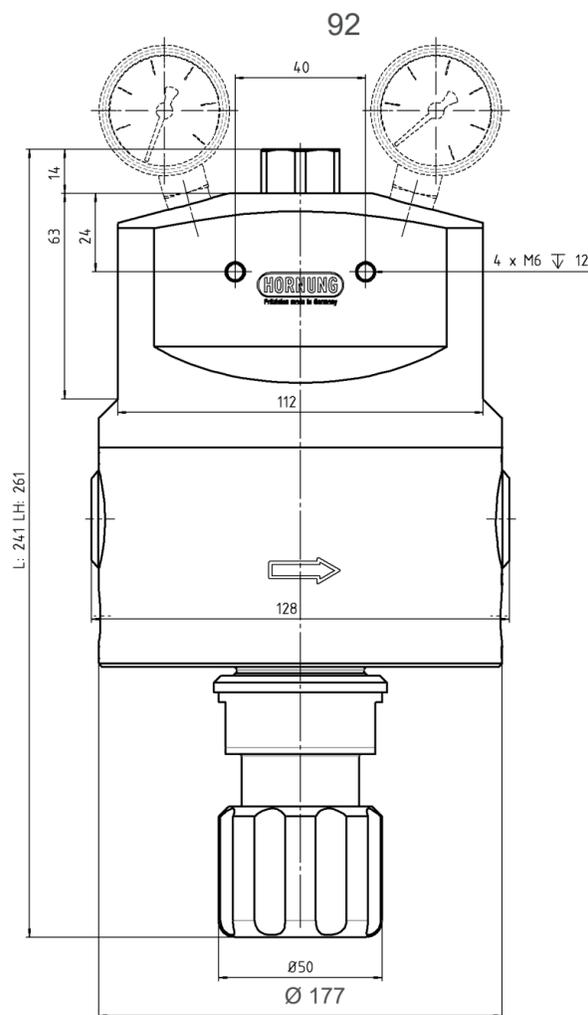
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PIDH 2



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, or proportional valves.

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 / pressure:		Diaphragm:		Outlet pressure P2:		Gauges:		Inlet / Outlet:			
2 = stainless steel 320 bar	4 = stainless steel 12 bar	1 = EPDM	2 = FKM	3 = 1 - 12 bar	4 = 1 - 17 bar	5 = 5 - 50 bar	6 = 5 - 100 bar	7 = 10 - 300 bar stainless steel	0 = without	1 = with inlet and outlet gauge	0 = G 2" - internal thread
Regulator type		383-	2	1	4	1	0	Gas type			Gas type
383-	PIDH 2	Type	Material/pressure	Diaphragm	P2	Gauges	In-/outlet				

Accessories:

- 7. Gauges, fittings and accessories
- 8. Fine filter F1, safety valves available on request