

# Precision pressure regulator VDS PHR

- dual stage for mbar applications

Inlet pressures up to 300 bar



## Description:

VDS PHR is a dual stage precision pressure regulator with a wide and flexible diaphragm surface for mbar operating pressures and is often used at science and research institutes or process engineering. Due to dual stage construction it is possible to work with absolutely stable outlet pressure even if there are high inlet pressures and even if the inlet pressure drops down significantly.

For the wall mounting of VDS PHR is an optional bracket available.

## Application areas:

The precision pressure regulator VDS-PHR is applied in following areas:

- Laboratories and industries
- Science and research
- Gas analysis
- Gas chromatography
- Process Engineering
- Metallurgy
- Process technology
- Glass- and lamp industries

## Technical Details:

Body:	brass, nickel and matt chrome plated or stainless steel
Seat:	viton
Diaphragm:	viton
Purity:	≤ 5.0
Max. inlet pressure	300 bar
Outlet pressure range	10 mbar – 2 bar
Flow:	10 m <sup>3</sup> /h air
Operating temp.:	-20°C to +70°C
Gauge: (optional)	safety version accord.EN 837-1 KL1,6
Threads:	in- and outlet G 1/4 f

## Hornung Quality standard

The company Hornung is certified to **DIN EN ISO 9001 and ISO 14001:2009.**

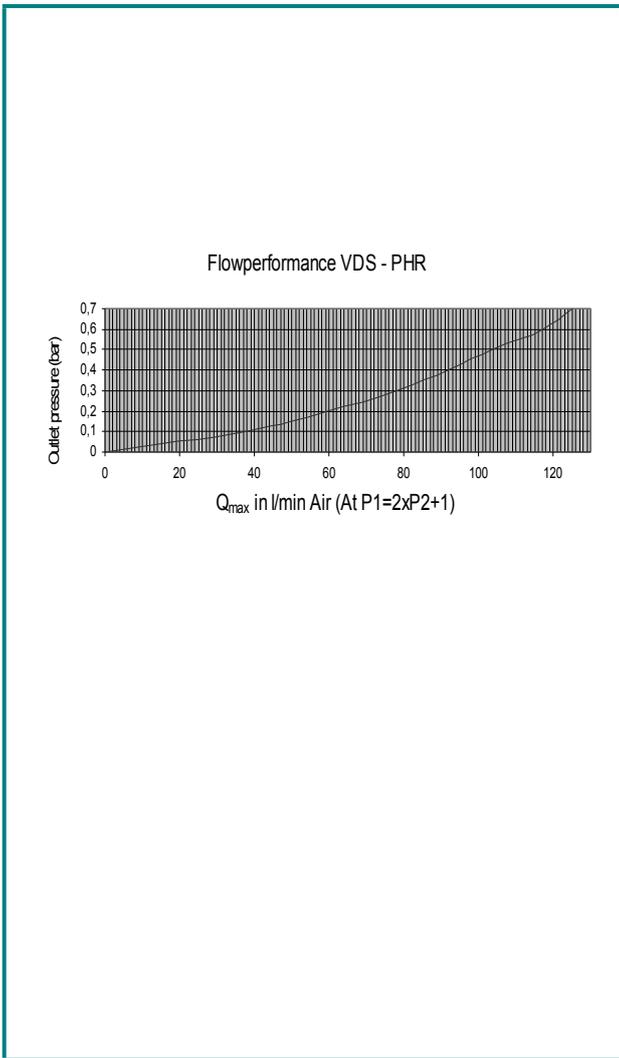
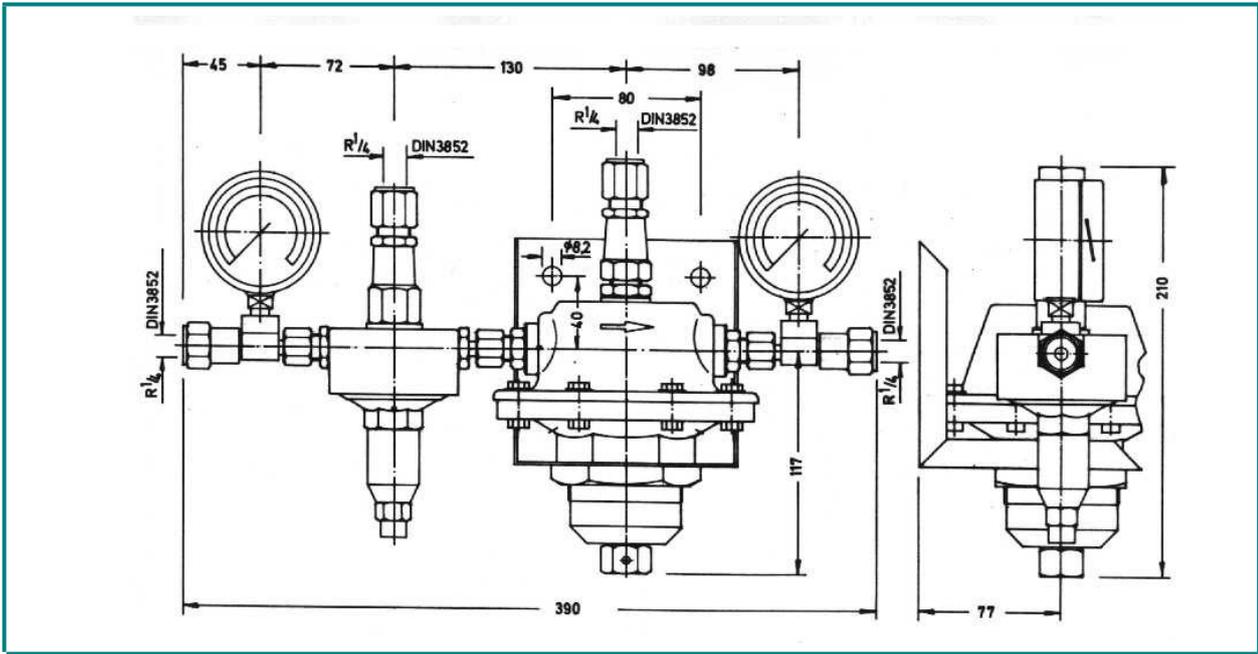
All single parts are manufactured, assembled and tested by in-house production.

The finished parts are therefore under all criteria of German quality control with 100% final inspection.

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**Accessories:**  
 See total catalogue segment  
 7. Gauges, Screw connections and accessories

**Ordering information:**

**Material:**

- 1 = brass
- 2 = stainless steel electropolished

**Outlet pressure ranges:**

- 1 = 30 mbar
- 2 = 50 mbar
- 3 = 70 mbar
- 4 = 100 mbar
- 5 = 200 mbar
- 6 = 300 mbar
- 7 = 500 mbar
- 8 = 700 mbar
- 9 = 1000 mbar
- 10 = 1500 mbar
- 11 = 2000 mbar

**Gauges :**

- 1 = none
- 2 = with working pressure indicator
- 3 = with in- and outlet pressure ind.

**Options for In- and Outlet:**

- 00 = G 1/4" f
- 03 = compression fitting 3mm
- 06 = compression fitting 6mm
- 08 = compression fitting 8mm
- 10 = compression fitting 10mm
- 12 = compression fitting 12mm

**Order example:**

29-	2	2	2	10	12	Gas
Type	Mat.	Press.	Gauges	Inlet	Outlet	Gas