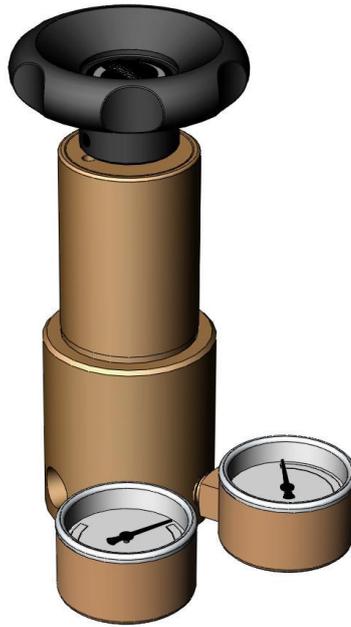


# High pressure regulator HD550



Gauges optional

## Description:

The high pressure-regulator HD550 is a single-stage pressure-regulator made of high-grade steel 14404 or brass.

The HD550 is designed as a piston pressure-regulator and reduces the pressure of compressed gases or liquids to a maximum outlet pressure of 550bar.

It works according to the principle of the force equilibrium between the adjusted spring action and the outlet pressure.

## Design:

With the version with seat diameter 6,35mm by a balanced poppet a large independence from form fluctuations is reached.

The piston diameters are different, thereby ensuring good controllability at low outlet pressures.

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The pressure-regulator is capture vented and the control spindle is fitted with an axial-thrust bearing to facilitate, even at high working pressure, adjustment with little effort.

In and outlet is fitted with NPT 3/8" internal thread as standard.

The regulator can be equipped optionally with an inlet and an outlet gauge.

## Technical details:

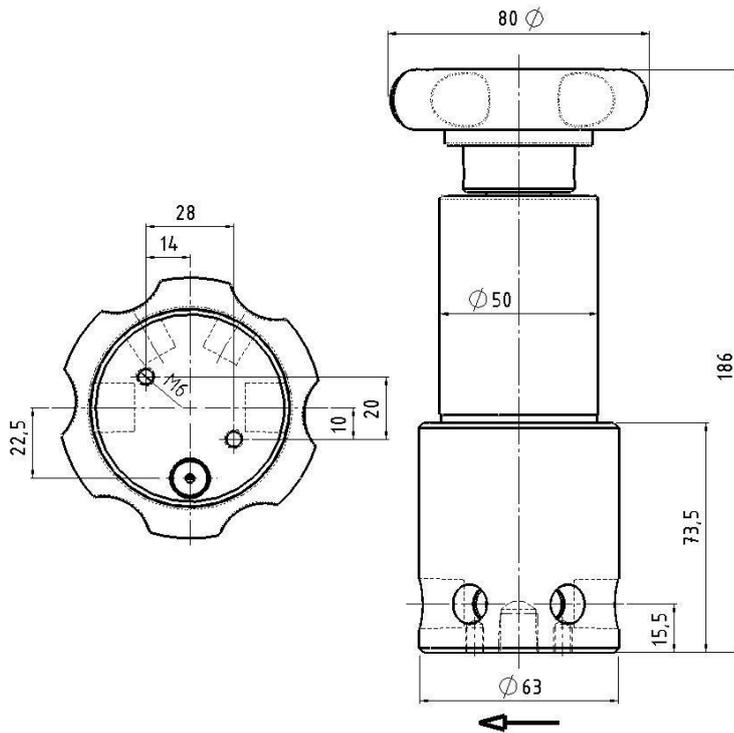
Material:	Brass or St. steel
Seat:	Ø 1,70 Ø 6,35 (balanced)
Kv-value:	0,03 (Ø 1,70 )
Kv-value:	0,7 (Ø 6,35)
Seat:	PCTFE
Elastomere:	EPDM / Viton
Max. Inlet pressure:	750 bar
Regulating area:	0,5 - 100 bar 10 - 550 bar
Operating temp.:	-20 °C to +60 °C
Size:	Ø80 x 186
Weight:	2,5kg
Connections:	In/outlet NPT 3/8 f Gauges G1/4

## Hornung Quality standard

The company Hornung is certified to **DIN EN ISO 9001**

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

The finished parts are therefore under the criteria of our exact quality control with 100% final control.



#### Application area:

This pressure-regulator is especially for high in and outlet pressures

With its captured vent this pressure-regulator is particularly suitable for use as a pilot pressure-regulator, e.g. in control systems in connection with dome pressure-regulators.

The stainless steel version with Elastomere made of Viton permits the use of aggressive media with this pressure-regulator. However, with the captured vent version, provision must be made for venting away at the base of the regulator.

We urgently recommend the connection of a fine filter, with at least 40 $\mu$ , before the pressure-regulator, as well as to protect following components with suitable relief valves against unduly high pressures.

#### Accessories:

Gauges, tube fittings und accessories, flanges, fine filter F1 (see Data sheet), Safety valves available on request

#### Order details:

##### Material:

- 1 = Brass
- 2 = St. steel

##### Seat:

- 1 =  $\varnothing$  1,70
- 2 =  $\varnothing$  6,35 (balanced)

##### Elastomere:

- 1 = EPDM
- 2 = Viton

##### Outlet pressure:

- 1 = 20 bar
- 2 = 70 bar

##### Capture venting:

- 1 = None
- 2 = With capture venting

##### Gauges:

- 1 = None
- 2 = With inlet and outlet gauge

#### Order example:

Regulator type	
46	HD550

46	-	1	1	1	1	2	Medium
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Type Mat. Seat Elast. Pres. Vent Gauge Medium