

HZRP20 Precision regulator

The HZRP20 precision regulator is designed for applications that require high flow capacity and accurate process control. A poppet valve balanced by a rolling diaphragm insures a constant output pressure even during wide supply pressure variations. Stability of regulated pressure is maintained under varying flow conditions through the use of an aspirator tube which adjusts the air supply in accordance with the flow velocity.

- High Flow Capacity
- Sensitive
- Stable Output
- On-line Maintenance



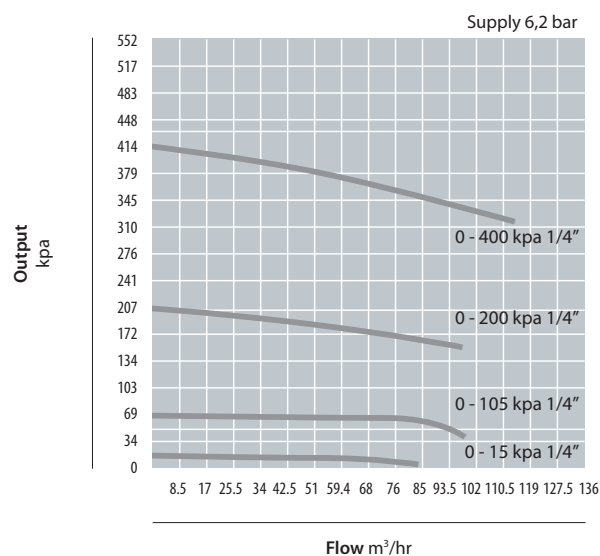
TECHNICAL CHARACTERISTICS

Port sizes	G1/4
Gage port	G1/4
Pressure	max 17 bar
Temperature	-40 ÷ +70 °C
Weight	0,74 Kg
Adjusting Field	0 ÷ 0,1 bar - 0 ÷ 1 bar - 0 ÷ 2 bar - 0,07 ÷ 4 bar - 0,1 ÷ 10 bar
Flow Capacity	see graph
Total Air Consumption	0,5 ÷ 6 NI/min (according to the outlet pressure)
Exhaust Capacity	110 bar
Supply Pressure Variation	less than 7 mbar (con variazione della pressione di 7 bar)

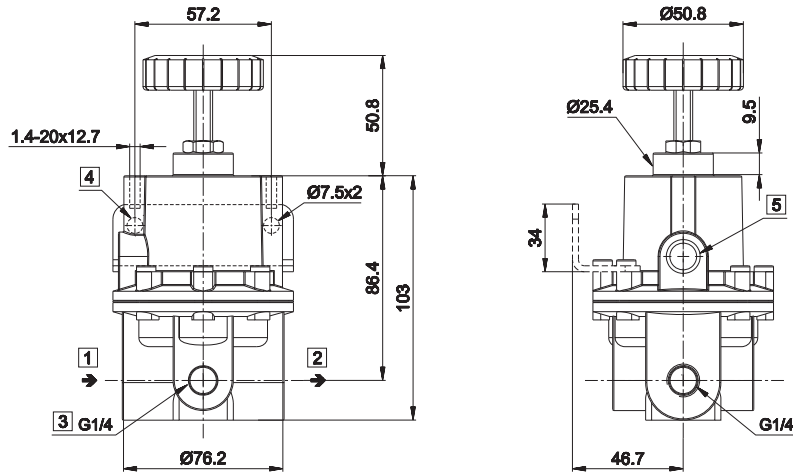
CONSTRUCTION CHARACTERISTICS

Body	Die-cast aluminium
Diaphragms	NBR
Components	Stainless steel, brass
Knob	Tecnopolymer

FLOW CHARACTERISTICS



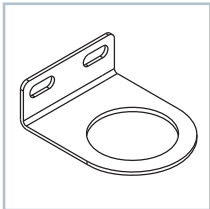
DIMENSIONS



- 1 Input
- 2 Output
- 3 Gage port
- 4 No. 02 threaded ports for panel mounting
- 5 Exhaust

ACCESSORIES

HZRP2310



■ Mounting brackets

HZ9P500 __ 14



■ Gauges Ø50 - G1/4

HZ9P5000314 0 - 2,5 bar
 HZ9P5000614 0 - 6 bar
 HZ9P5001014 0 - 10 bar

CODIFICATION KEY

HZRP	20	08G	A
1	2	3	4

1 Series	2 Model	3 Ports	4 Adjusting Field
HZRP	20 = standard	08G = G1/4 10G = G3/8 (upon request)	A = 0 ÷ 0,1 bar B = 0 ÷ 1 bar C = 0 ÷ 2 bar D = 0,07 ÷ 4 bar E = 0,1 ÷ 10 bar

By request **NON RELIEVING** version

INSTALLATION

The High Flow Precision Regulator is designed for air service only. Clean all air lines before installing and apply a small amount of compound to the male threads only. Avoid undersized fittings which will limit flow and cause pressure drop downstream. The use of a 5 micron filter installed before the Precision Regulator is recommended to remove contaminant which would affect performance.

Be sure all connections are tight and that exhaust vents are not blocked. The High Flow Precision Regulator can be mounted in any position.

OPERATION

To operate, turn the pressure adjusting knob slowly clockwise until desired pressure is reached.

MAINTENANCE

Occasional attention may be required due to the natural accumulation of foreign matter in the instrument. The regulator is easily disassembled without removal from the line. Before disassembly, shut off valve upstream of the regulator to prevent escape of air when disassembled.

Remove the two No. 8-32 screws on the bottom of the unit and pull out the pintle assembly. Wash the inner valve assembly with solvent, taking care not to damage the diaphragms and valve facings. Do not use solvents such as acetone, carbon tet, and trichlorethylene. Carefully reassemble unit after cleaning. The vent hole in the bonnet should be kept clean.

A slight flow of air through this hole is necessary for proper operation of the volume booster.

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