

Pressure regulator U15

spectro**tec**



Pressure regulator U15-300-60-O2

Product features

- Piston pressure regulator with balanced main valve
- For non-corrosive technical gases
- Single-stage with high control accuracy
- Central filter in the pressure regulator
- Safety pressure gauge according to DIN ISO 5171
- Pressure regulator with integrated relief valve to protect the regulator
- Pressure regulator for oxygen with filter in inlet fitting
- Accessories like wall brackets and in- / outlet fittings are also available

Technische Daten

Type	single-stage
Flow rate Q	max. 700 m ³ /h
Inlet pressure P₁	max. 300 bar
Outlet pressure P₂	20 ... 60 bar
Materials	
Body:	brass
Bonnet:	brass
Piston:	brass
Valve seat:	PA
In- and outlets	
Inlet:	G 1/2" female or M24 x 1,5 (oxygen)
Outlet:	G 1/2" female
Pressure gauge ports:	G 1/4" female
Outlet relief valve:	G 3/8" male
Temperature range	-20°C to +60°C
Leak rate	≤10 ⁻⁴ mbar l/s He
Weight	ca. 3,8 kg

Flow rates Q [m³/h] air

The table below indicates approximate values for the flow rate in standard cubic meters of compressed air at the indicated operating conditions. The flow rates for other gas types may be calculated using the conversion factors from the table on the right.

For detailed flow rate calculations please refer to our data sheet "Performance diagram".

Inlet pressure P ₁ [bar]	Flow rate Q at P ₂ [bar]				
	20	30	40	50	60
120	480	490	500	510	510
100	410	420	420	430	430
80	250	350	380	400	-
60	230	250	350	330	-
40	175	100	-	-	-

Conversion factors

Gas type	factor
Argon	0,85
Helium	2,69
Carbon dioxide	0,81
Nitrogen	1,02
Oxygen	0,95
Hydrogen	3,79

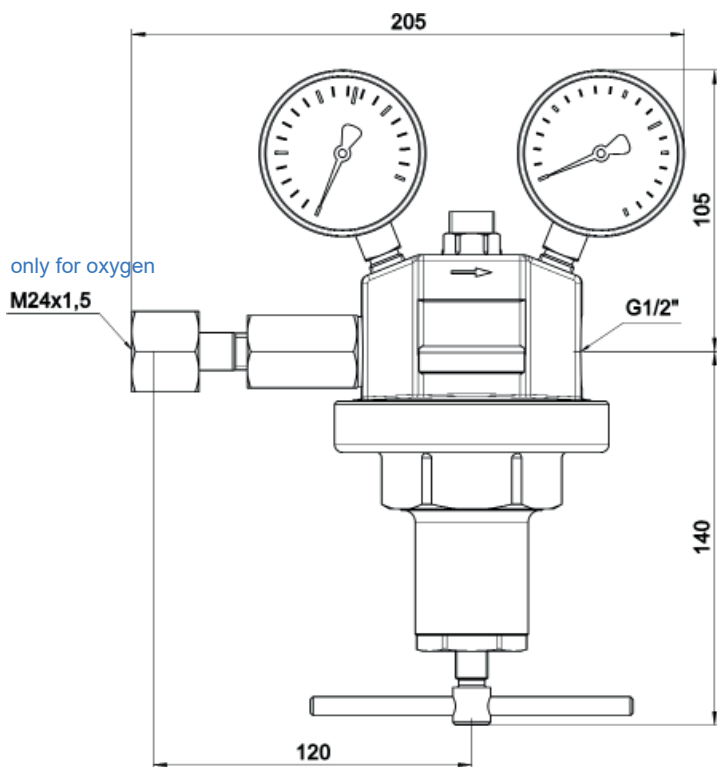
Performance factor L₁₀ = 5,5

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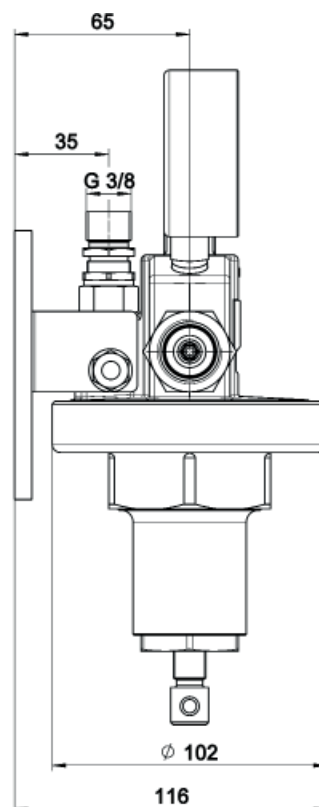
Dimensions and connections

Dimensions (front view)



Dimensions with wall bracket 512.07600

(as accessory available)



Ordering information: Pressure regulator U15

U15 - 300 - 60 - NFG

In- and outlet fittings:
see data sheet "Fittings"

Inlet pressure P_1

200	max. 200 bar
300	max. 300 bar

Type of gas

NFG	non flammable gases
FG	flammable gases
O2	oxygen

Outlet pressure P_2

60	max. 60 bar
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