

Pressure regulator U13

spectro **tec**



Line pressure regulator
U13-W6/E-200-15
for non flammable gases



Manifold pressure regulator
U13-W6/G-200-20
for oxygen

Product features

- Diaphragm pressure regulator
- For non-corrosive industrial gases
- Single-stage with high control accuracy
- Central filter in the pressure regulator
- Safety pressure gauge acc. to DIN EN 562
- Pressure regulator with integrated relief valve
- Pressure regulator for oxygen with filter in inlet fitting
- Accessories like wall brackets and in-/outlet fittings are also available

Attention:

For the U 13 special outlet fittings with orifice holes have to be used to ensure a correct function of the regulator.

Technical Data

Type	single-stage
Flow rate Q	max. 500 m ³ /h
Inlet pressure P₁	max. 40 / 200 / 300 bar
Outlet pressure P₂	see table below
at P ₁ = 40 bar:	max. 5...30 bar
at P ₁ = 300 bar:	max. 14...35 ¹⁾ bar

¹⁾ for oxygen up to 30 bar available!

Materials

Body regulator:	brass
Bonnet:	Alu (powder coated)
Diaphragm regulator:	NBR
Valve seat regulator:	PA

In- and outlets

Inlet:	G ½"- female M24 x 1,5 (oxygen)
Outlet:	G ½"- female
Pressure gauge ports:	G ¼"- female
Outlet relief valve:	G ⅜"- male

Temperature range -30°C to +60°C

Leak rate <10⁻³ mbar l/s He

Weight approx. 4,2 kg

Performance factors and outlet pressures to find the flow rates of the pressure regulators U13

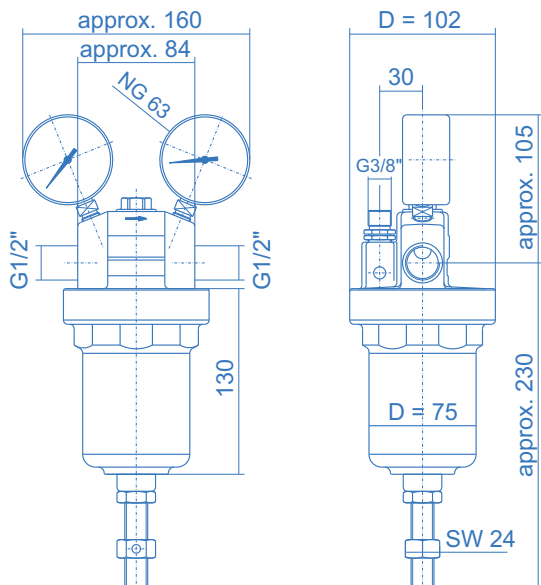
Series	U13W6				U13W5	U13W4	
	E	G	J	L	D	D	
Type							
Performance factor	L ₅ (5% pressure drop)	4,5	5,5	4,5	5	4,5	3,5
	L ₁₀ (10% pressure drop)	6	7	6	6,5	6	4,5
	L _{max}	7,5	8,5	7,5	8	7,5	5,5
max. Outlet pressure P ₂ [bar]	at 40 bar inlet pressure	16	25	6	16	30	-
	at 200 bar inlet pressure	16	20	-	-	30	35
	at 300 bar inlet pressure	16	20	-	-	30	35
Outlet pressure variations [%] relating to inlet pressure variation	1	1,85	2,7		1,25	1,5	

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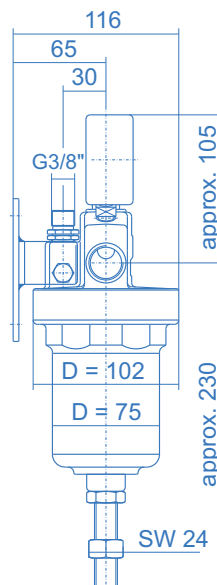


Dimensions and connections of the pressure regulator U13

Dimensions (front- and side view)



Dimensions with wall bracket 512.07600 (as accessory available)



Ordering information: Pressure regulator U13

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

U13 W6 E - NFG - 40

Type

See table "Performance factors..." on page 1

Type of gas

NFG - non flammable gases
FG - flammable gases
O₂ - oxygen

Inlet pressure P₁

40 - max. 40 bar
200 - max. 200 bar
300 - max. 300 bar