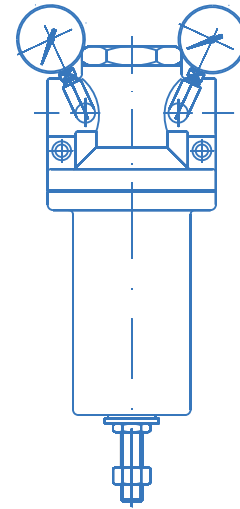


Pressure regulator U47

spectrotec



Pressure regulator
U47 W9 U-NFG-40-20
for non flammable gases



Product features

- Diaphragm / piston pressure regulator
- For non-corrosive industrial gases
- Single-stage with high control accuracy
- High flow pressure regulator
- 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

* Pressure regulator with special soldered inlet fitting
Not suitable for oxygen!

Technical Data

Type	single-stage
Flow rate Q	max. 2000 m ³ /h
Inlet pressure P₁	16 / 40 / 200 / 250 / 300* bar
Outlet pressure P₂	max. 150 bar see table below
Materials	
Body regulator:	brass
Bonnet:	Alu (powder coated)
Diaphragm (P ₂ max. 40 bar):	W6: NBR, W9: EPDM
Piston (P ₂ > 40 bar):	brass
Valve seat regulator:	PTFE
In- and outlets	
Inlet:	G 1½" - female
Outlet:	G 1½" - female
Pressure gauge ports:	G 1/4" - female
Outlet relief valve:	G 3/4" - female
Temperature range	-30°C to +60°C
Leak rate	<10 ⁻³ mbar l/s He
Weight	approx. 14,5 kg

Performance factors and outlet pressures to find the flow rates of the pressure regulators U47

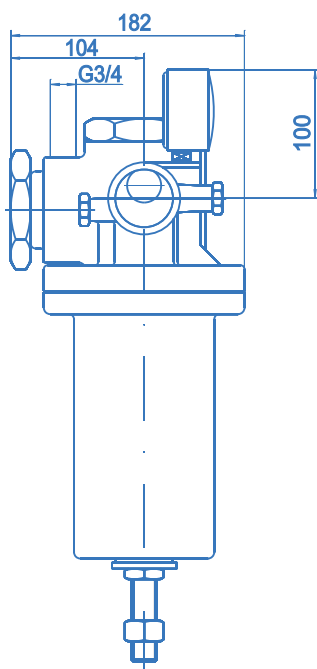
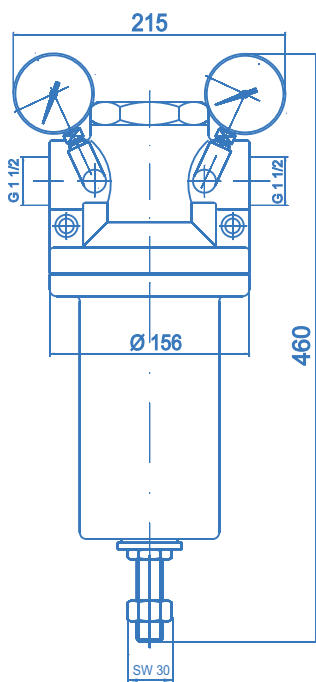
Series	U47W9				U47W6	U47K3		
	K	S	T	U	F	B	C	
Performance factor	L ₅ (5% pressure drop)	7	8,5	9,5	9,5	6,5	5,5	5,5
	L ₁₀ (10% pressure drop)	8,5	10	11	11	8	7	7
	L _{max}	9	11	11	11	9	7,5	7,5
Outlet pressure P ₂ [bar]	at 16 bar inlet pressure	-	4	-	-	-	-	-
	at 40 bar inlet pressure	25	-	13	20	-	-	-
	at 200 bar inlet pressure	25	-	-	-	40	100	150
Outlet pressure variations [%] relating to inlet pressure variation	1,5	5			3	5	5	

Pressure regulator U47

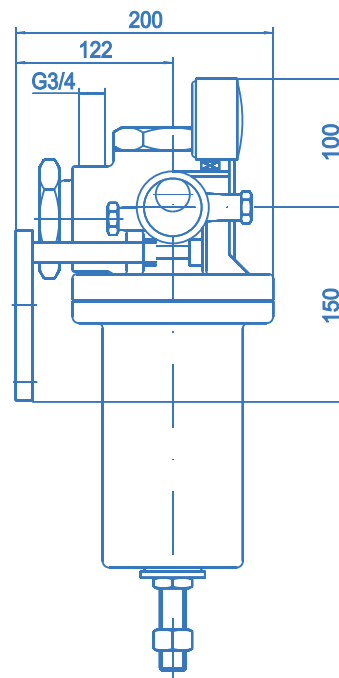


Dimensions and connections of the pressure regulator U47

Dimensions (front- and side view)



Dimensions with wall bracket 512.45350
(as accessories available)



Ordering information: Pressure regulator U47

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

U47 W9 K - NFG - 200

Type

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

Type of gas

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

Inlet pressure P₁

16 - max. 16 bar
40 - max. 40 bar
200 - max. 200 bar
250 - max. 250 bar
300 - max. 300 bar*

* Pressure regulator with special soldered inlet fitting
Not suitable for oxygen!