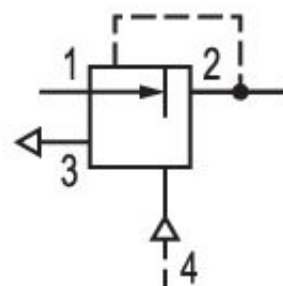


Pressure regulator, Series MU1-RGS

0821302026

General series information
AVENTICS Series MU1 Air Preparation Units

- The AVENTICS Series MU1 components are ideal for applications in harsh environments. They offer large thread connections to guarantee a high compressed air flow rate and provide reliable filtration, regulation and lubrication.



Technical data

Industry	Industrial
Function	Standard pressure regulator
Parts	Pressure regulator
Pressure gauge	without pressure gauge
Mounting orientation	Any
Regulator type	Diaphragm-type pressure regulator
Port	G 1/2
Nominal flow Qn	5500 l/min
Regulation range min.	0.2 bar
Regulation range max.	8 bar
Working pressure min.	0.5 bar
Working pressure max.	13 bar

Min. ambient temperature	-10 °C
Max. ambient temperature	80 °C
Activation	Pneumatically
Regulator function	with relieving air exhaust
Pressure supply	single
Control pressure max.	8 bar
Medium	Compressed air Neutral gases
Weight	1.1 kg

Material

Housing material	Die-cast aluminum
Seal material	Acrylonitrile butadiene rubber
Part No.	0821302026

Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

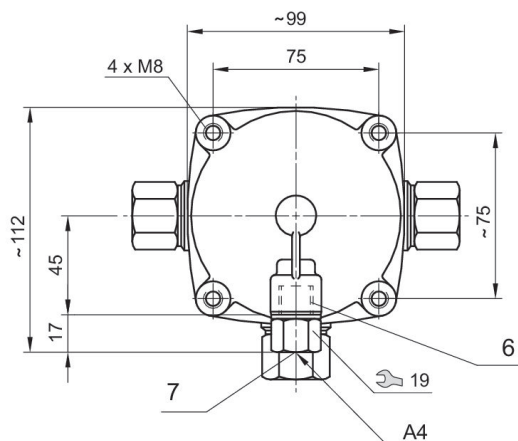
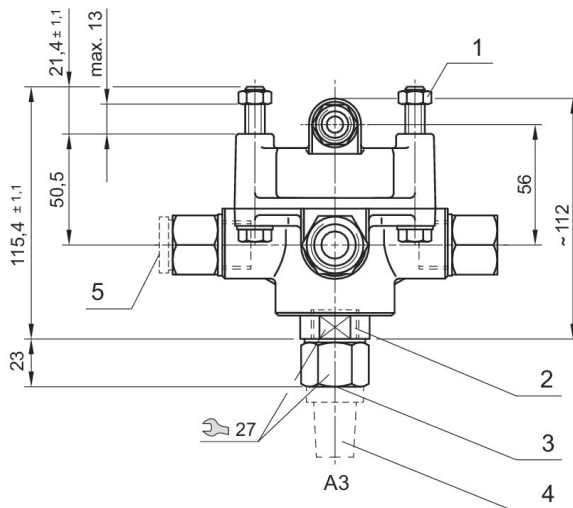
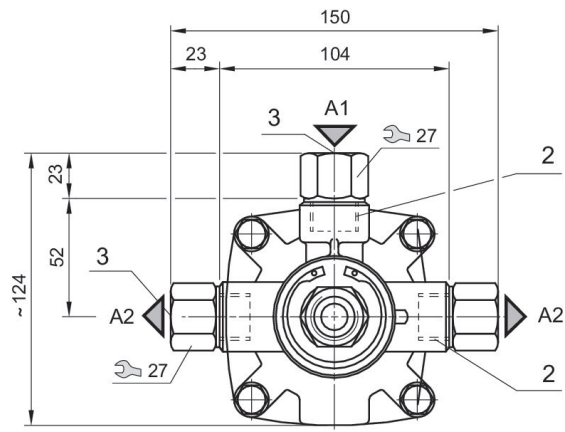
Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 1$ bar

Relieving exhaust (≤ 0.2 bar over set pressure)

Mounting with 4 mounting screws M8 DIN 934 (not in scope of delivery)

control pressure port: G 1/4

Dimensions in mm



A1 = input

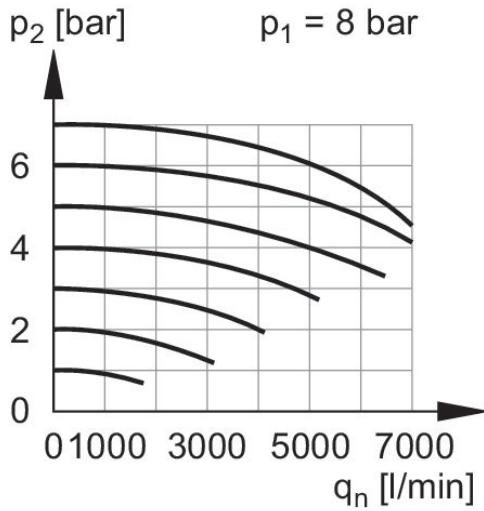
A2 = output

A3 = ventilation port

A4 = control pressure connection

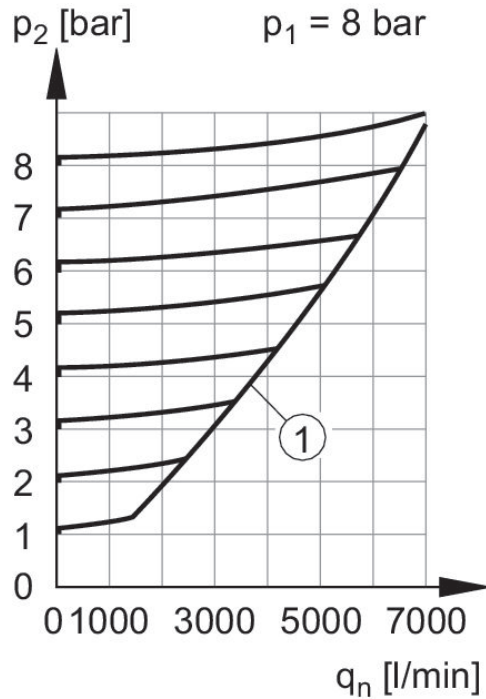
(1) not included in scope of delivery (4 x M8, DIN 934) (2) M22x1.5, min. 13 mm deep (3) G 1/2, 17 mm deep (4) silencer (not included in scope of delivery) (5) blanking screw, to be fitting when only one connection is used (not included in scope of delivery) (6) M16x1.5, min. 12 mm deep (7) G 1/4, 12 mm deep

Flow rate characteristic, $p_2 = 0,05 - 7$ bar
from connection 1 to 2



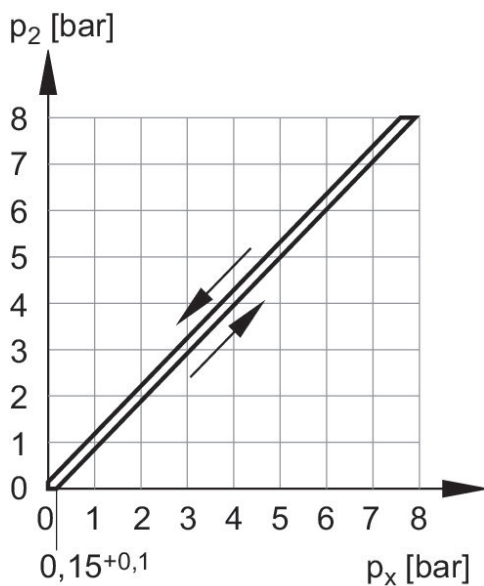
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Flow rate characteristic, $p_2 = 0,05 - 7$ bar
from connection 2 to 3



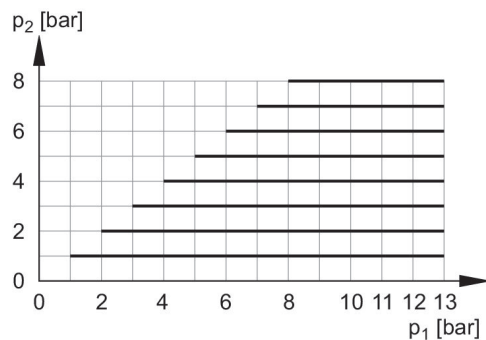
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow
1) with silencer 1827000003

Pressure characteristics curve



p_x = control pressure
 p_2 = output pressure

Pressure characteristics curve



Input pressure p_1 /output pressure p_2
 p_1 = Working pressure
 p_2 = Secondary pressure
 p_x = control pressure

Application example

