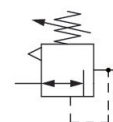


AVENTICS Series MU1 Air Preparation Units

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
Note	G 1
Function	Standard pressure regulator
Parts	Pressure regulator
Pressure gauge	without pressure gauge
Mounting orientation	Any
Regulator type	Diaphragm-type pressure regulator
Port	G 1
Nominal flow Qn	5000 l/min
Min. regulation range	0.5 bar
Max. regulation range	10 bar
Min. working pressure	0.5 bar
Max. working pressure	25 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	80 °C
Activation	Mechanical
Regulator function	with relieving air exhaust
Pressure supply	single
Medium	Compressed air Neutral gases

Weight 1.2 kg

Material

Housing material

Die-cast aluminum

Seal material

Acrylonitrile butadiene rubber

Part No.

R412006574

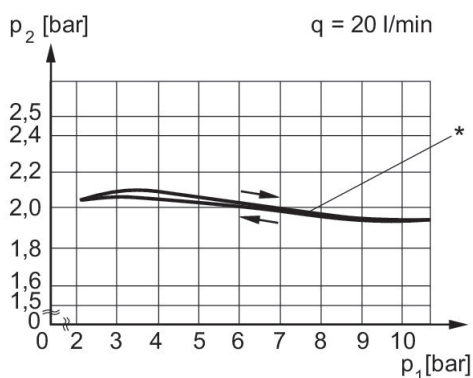
Technical information

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

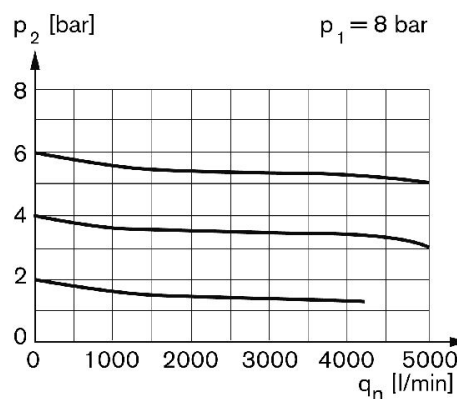
Mounting: panel installation or mounting bracket R412004872

Pressure characteristics curve



p_1 = Working pressure
 p_2 = Secondary pressure
 q = flow rate
 * starting point

Flow rate characteristic (secondary range p_2 : 0.5 - 10 bar)



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

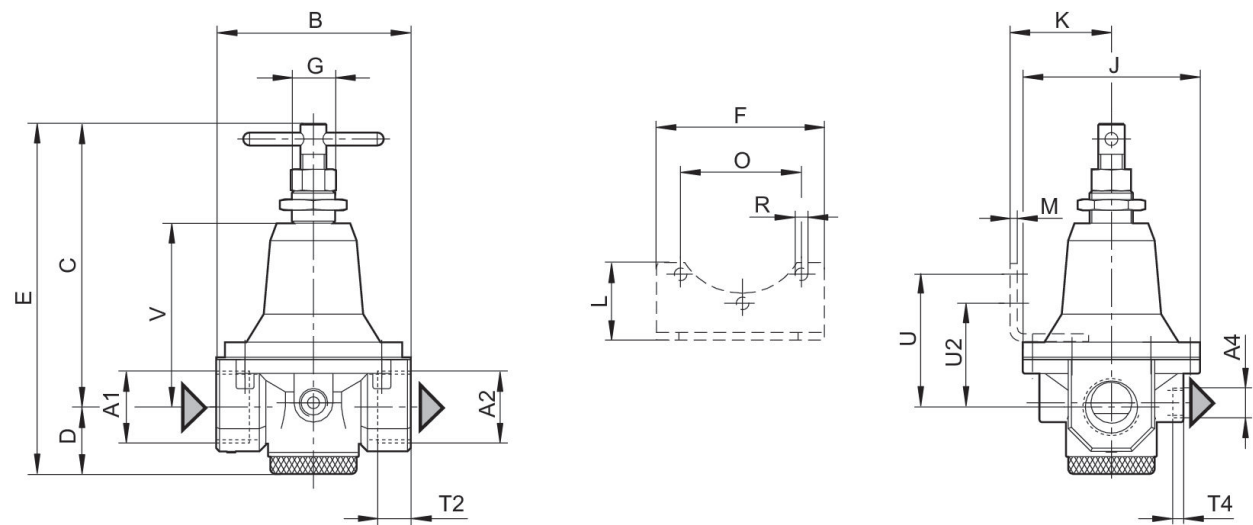
Pressure regulator, Series MU1-RGS

R412006574

Series MU1

2026-05-28

Dimensions



Part No.	A1	A2	A4	B ±5	C ±5	D ±5	E ±7	F	G	J ±5
R412006574	G 1	G 1	G 1/4	90	131	31	162	124	M20x1,5	82

Part No.	K	L	M	O	R	T2	T4	U	U2	V
R412006574	47	38	3	53.3	5.5	18	7	60.1	47.1	83