Series MU1

AVENTICS™ Series MU1

EMERSON.

Pressure regulator, Series MU1-RGS

- G 1/2
- Qn = 5000 l/min
- Standard pressure regulator
- Activation Mechanical
- suitable for ATEX

Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0.5 ... 30 bar
Ambient temperature min./max.	-10 ... 80 °C
Medium temperature min./max.	-10 ... 80 °C
Medium	Compressed air Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Activation	Mechanical
Weight	1.2 kg

Technical data

Part No.		Port	Flow	Adjustment range min./max.	Pressure gauge
			Qn		
R412004371		G 1/2	5000 l/min	0.5 ... 16 bar	with pressure gauge
R412007578		G 1/2	5000 l/min	0.5 ... 16 bar	-
9153320160		G 1/2	5000 l/min	0.5 ... 10 bar	-

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar
Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

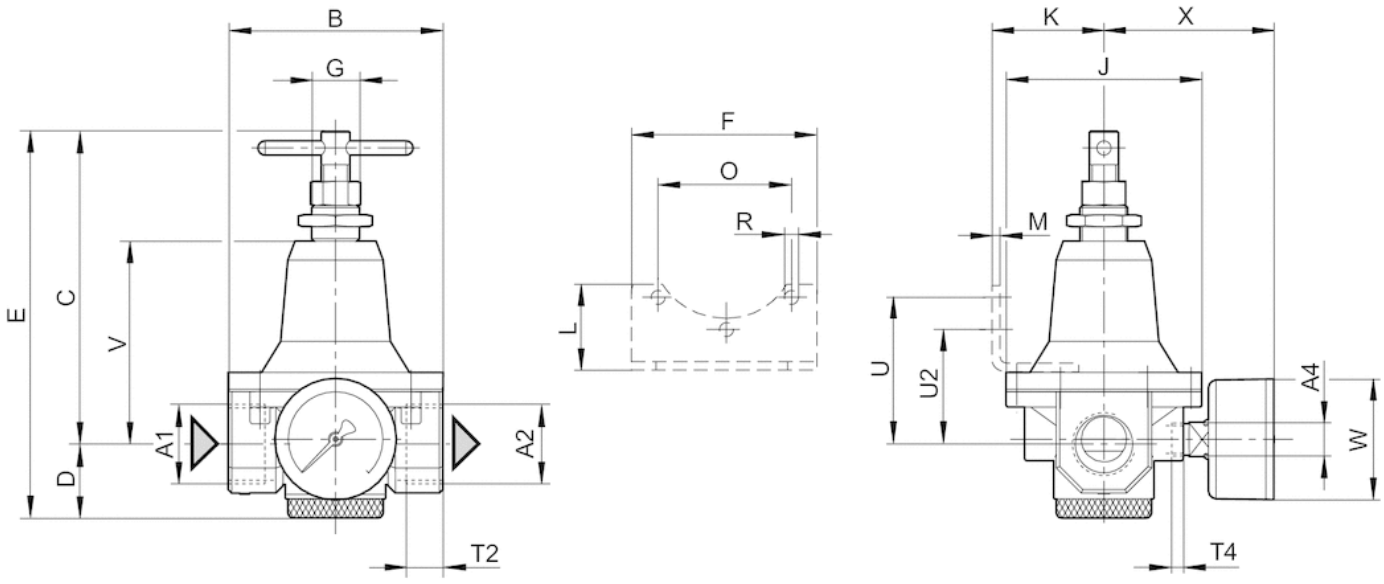
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting: panel installation or mounting bracket R412004872
Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

Material	
Housing	Die cast zinc
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions

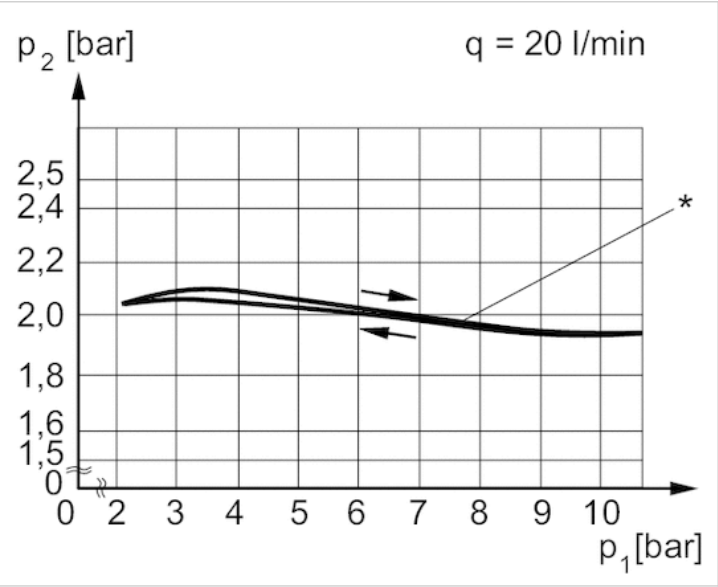


Dimensions

A1	A2	A4	B	C	D	E	F	G	J	K	L	M	O	R	U	U2	T2	T4	V	W	X
G 1/2	G 1/2	G 1/4	82	129	31	162	124	M20x1,5	82	47	38	3	53.6	6	58	45	14	7	83	63	72

Diagrams

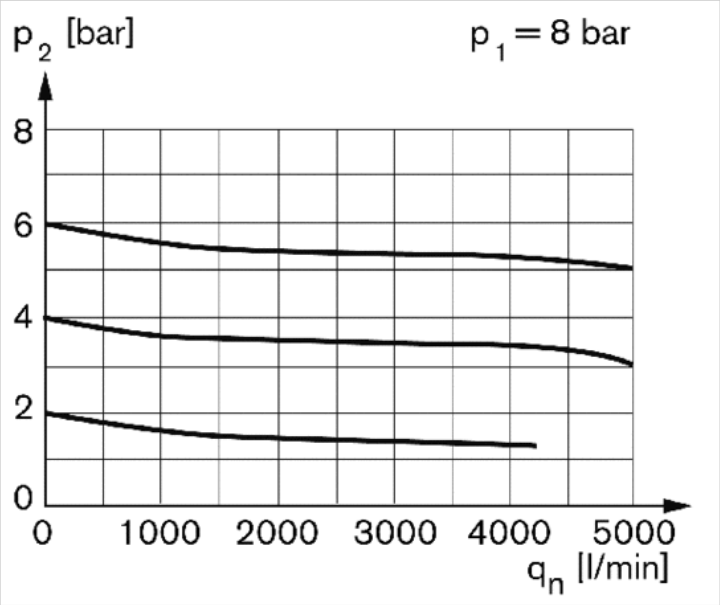
Pressure characteristics curve



p1 = working pressure
p2 = secondary pressure

q = flow rate
* starting point

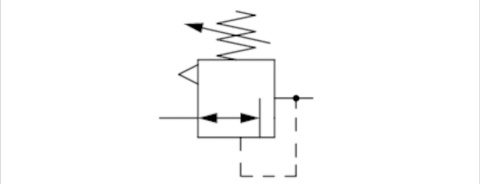
Flow rate characteristic (secondary range p2: 0.5 - 10 bar)



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series MU1-RGS

- G 1
- Qn = 5000 l/min
- Standard pressure regulator
- Activation Mechanical
- suitable for ATEX



Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0.5 ... 25 bar
Ambient temperature min./max.	-10 ... 80 °C
Medium temperature min./max.	-10 ... 80 °C
Medium	Compressed air Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 ... 10 bar
Pressure supply	single
Activation	Mechanical
Weight	1.2 kg

Technical data

Part No.	Port	Flow
		Qn
R412006574	G 1	5000 l/min

Nominal flow Qn with secondary pressure 6 bar at Δp = 1 bar, Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

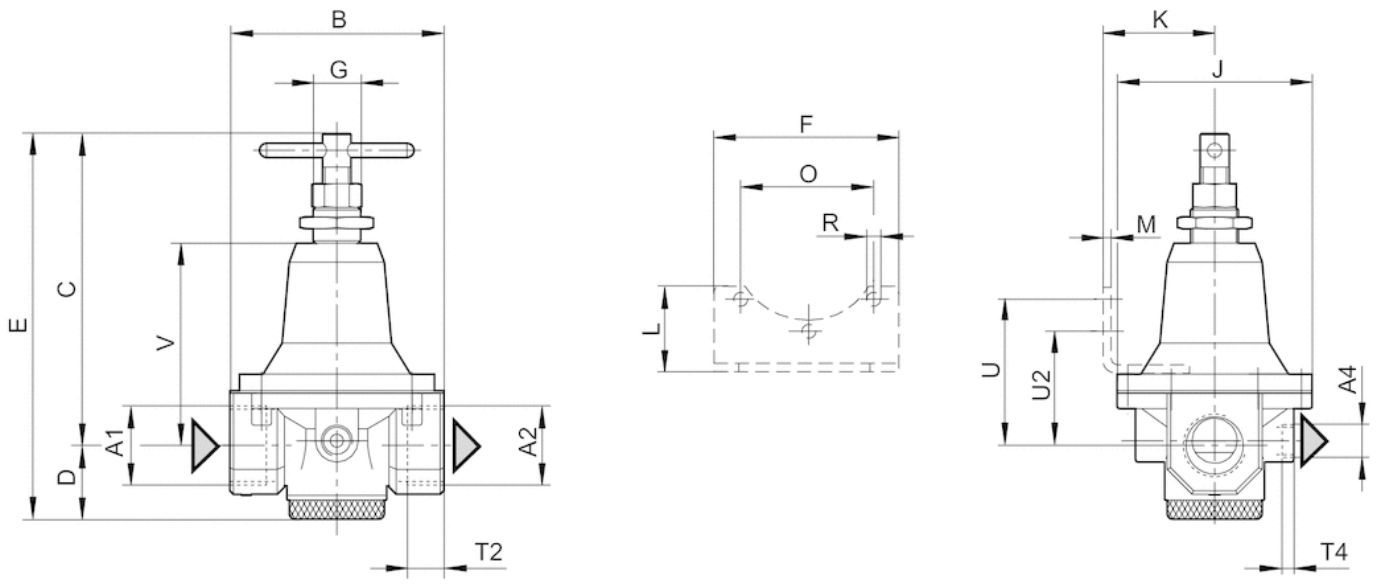
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting: panel installation or mounting bracket R412004872
Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

Material	
Housing	Die-cast aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions

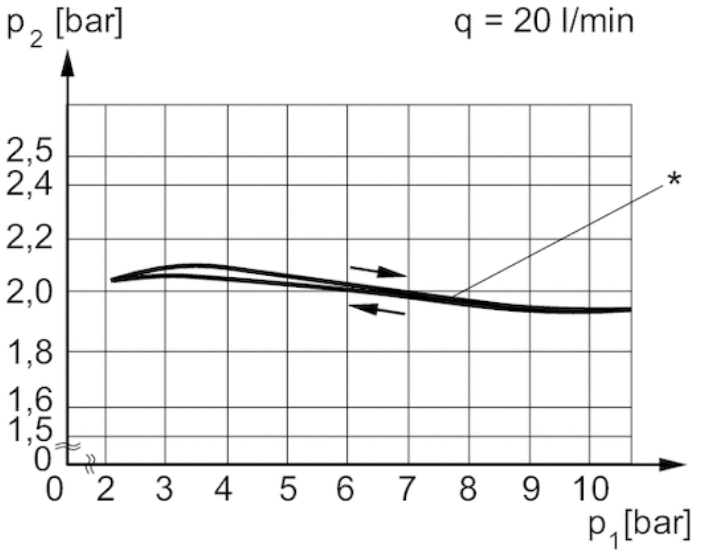


Dimensions

A1	A2	A4	B ±5	C ±5	D ±5	E ±7	F	G	J ±5	K	L	M	O	R	T2	T4	U	U2	V
G 1	G 1	G 1/4	90	131	31	162	124	M20x1,5	82	47	38	3	53.3	5.5	18	7	60.1	47.1	83

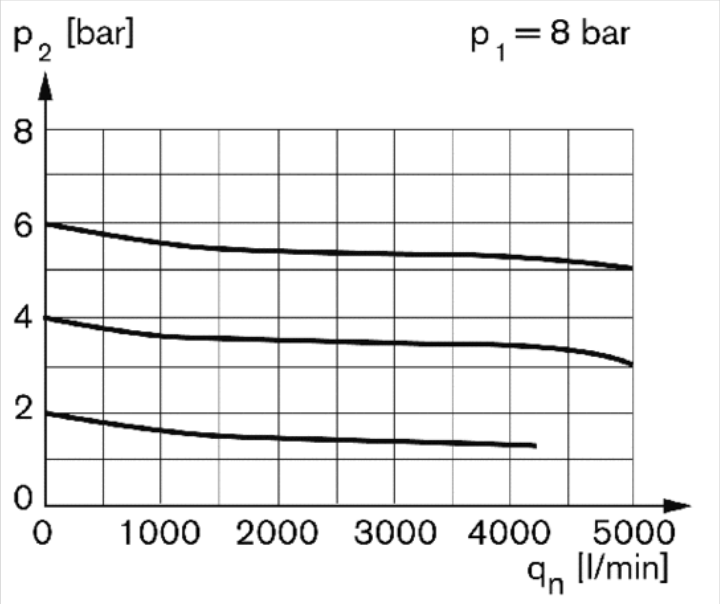
Diagrams

Pressure characteristics curve



p1 = working pressure
p2 = secondary pressure
q = flow rate
* starting point

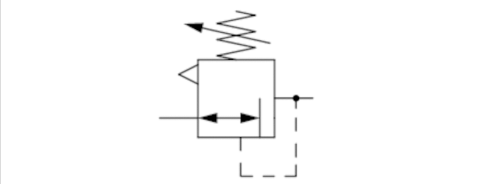
Flow rate characteristic (secondary range p2: 0.5 - 10 bar)



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series MU1-RGS

- G 1 1/4 G 1 1/2
- Qn = 15000 l/min
- Standard pressure regulator
- Activation Mechanical
- suitable for ATEX



Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0.5 ... 25 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 ... 10 bar
Pressure supply	single
Activation	Mechanical
Weight	2.5 kg

Technical data

Part No.	Port	Flow
		Qn
R412006575	G 1 1/4	15000 l/min
R402000233	G 1 1/2	15000 l/min

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar
Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

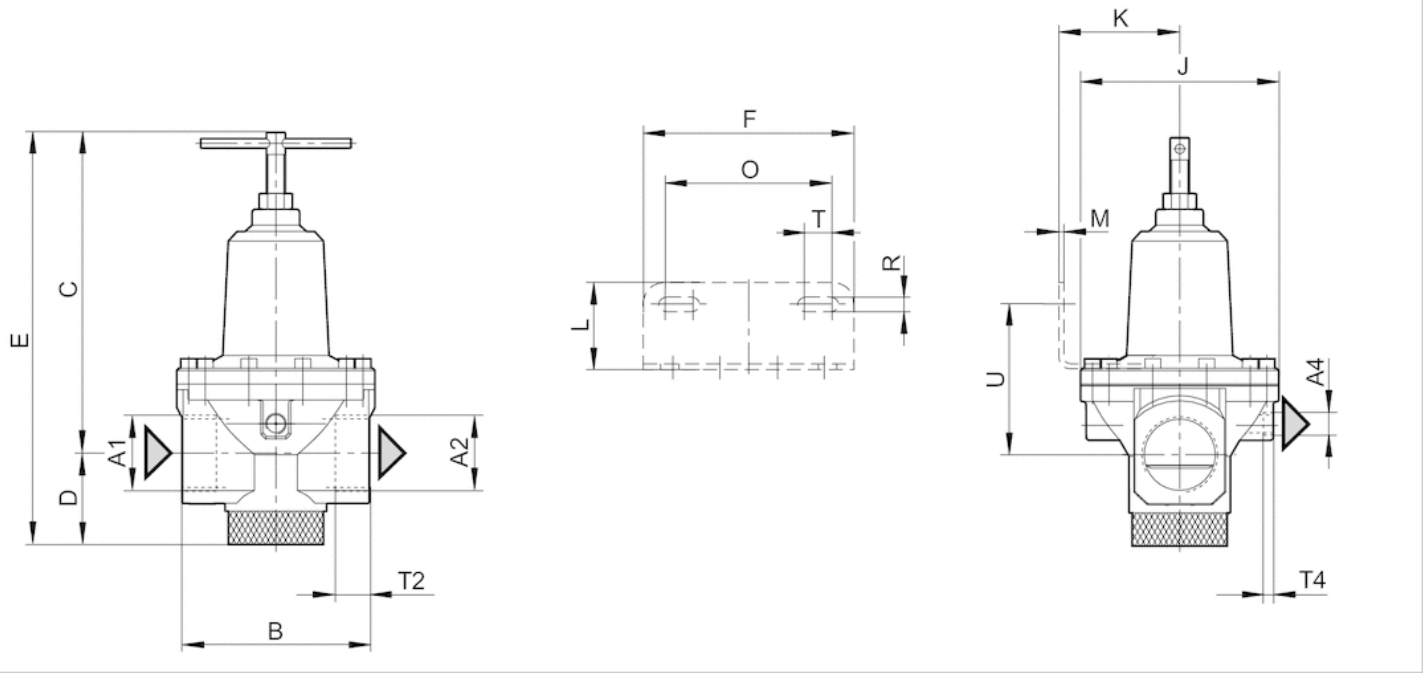
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
mounting: mounting bracket R412004873 or installation in piping
Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

Material	
Housing	Die-cast aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions

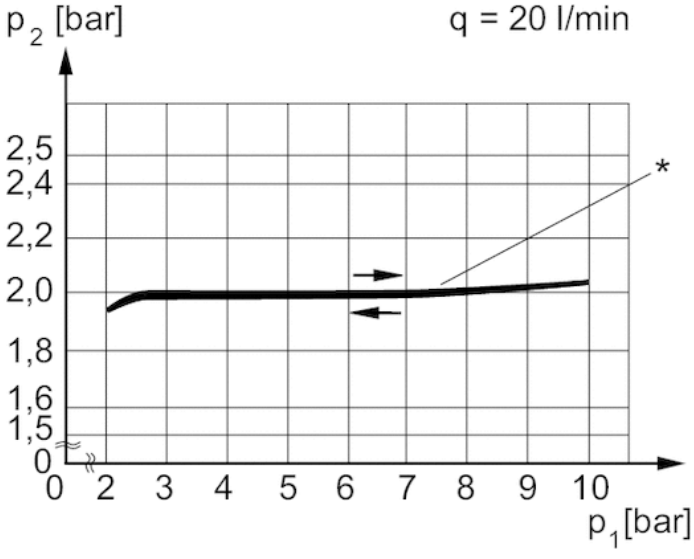


Dimensions

A1	A2	A4	B ±5	C ±5	D ±5	E ±7	F	J ±7	K	L	M	O	R	T	T2	T4	U
G 1 1/4	G 1 1/4	G 1/4	118.5	202.5	57.5	260	124	125	75	51	3	98	8.4	16	24	9	92.5
G 1 1/2	G 1 1/2	G 1/4	118.5	202.5	57.5	260	124	125	75	51	3	98	8.4	16	24	9	92.5

Diagrams

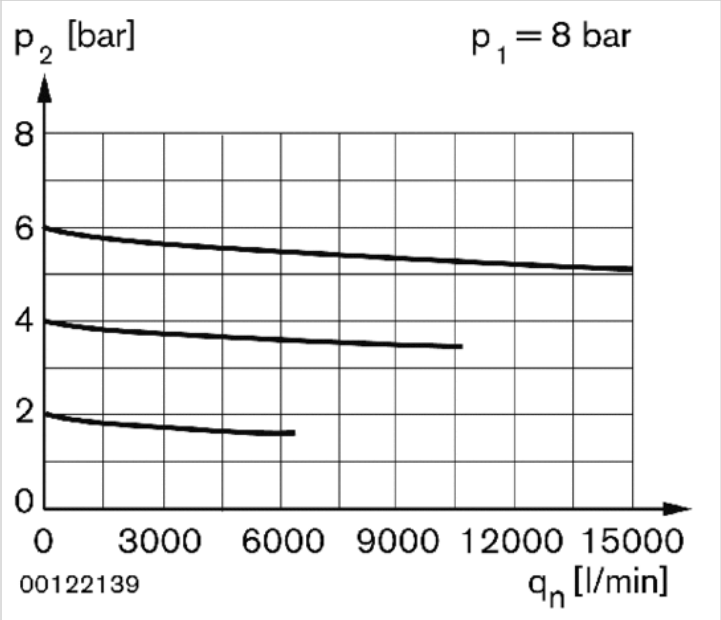
Pressure characteristics curve



p1 = working pressure
p2 = secondary pressure

q = flow rate
* starting point

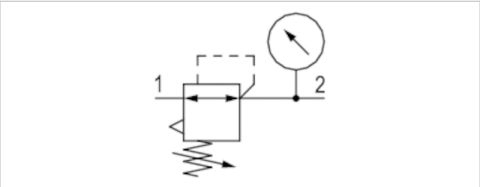
Flow rate characteristic (secondary range p2: 0.5 - 10 bar)



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series MU1-RGS

- G 1/4
- Qn = 1000 l/min
- Standard pressure regulator
- Activation Mechanical
- with pressure gauge
- Free of substances that impair surface wetting in the coating process, p1 max = 35 bar, p2 max = 23 bar



Parts	Pressure regulator
Mounting orientation	Any
Working pressure min./max.	0.5 ... 35 bar
Ambient temperature min./max.	0 ... 60 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 ... 23 bar
Pressure supply	single
Activation	Mechanical
Weight	0.63 kg

Technical data

Part No.	Port	Flow	Pressure gauge
		Qn	
R412010111	G 1/4	1000 l/min	with pressure gauge

Nominal flow Qn with secondary pressure 6 bar at Δp = 1 bar

Technical information

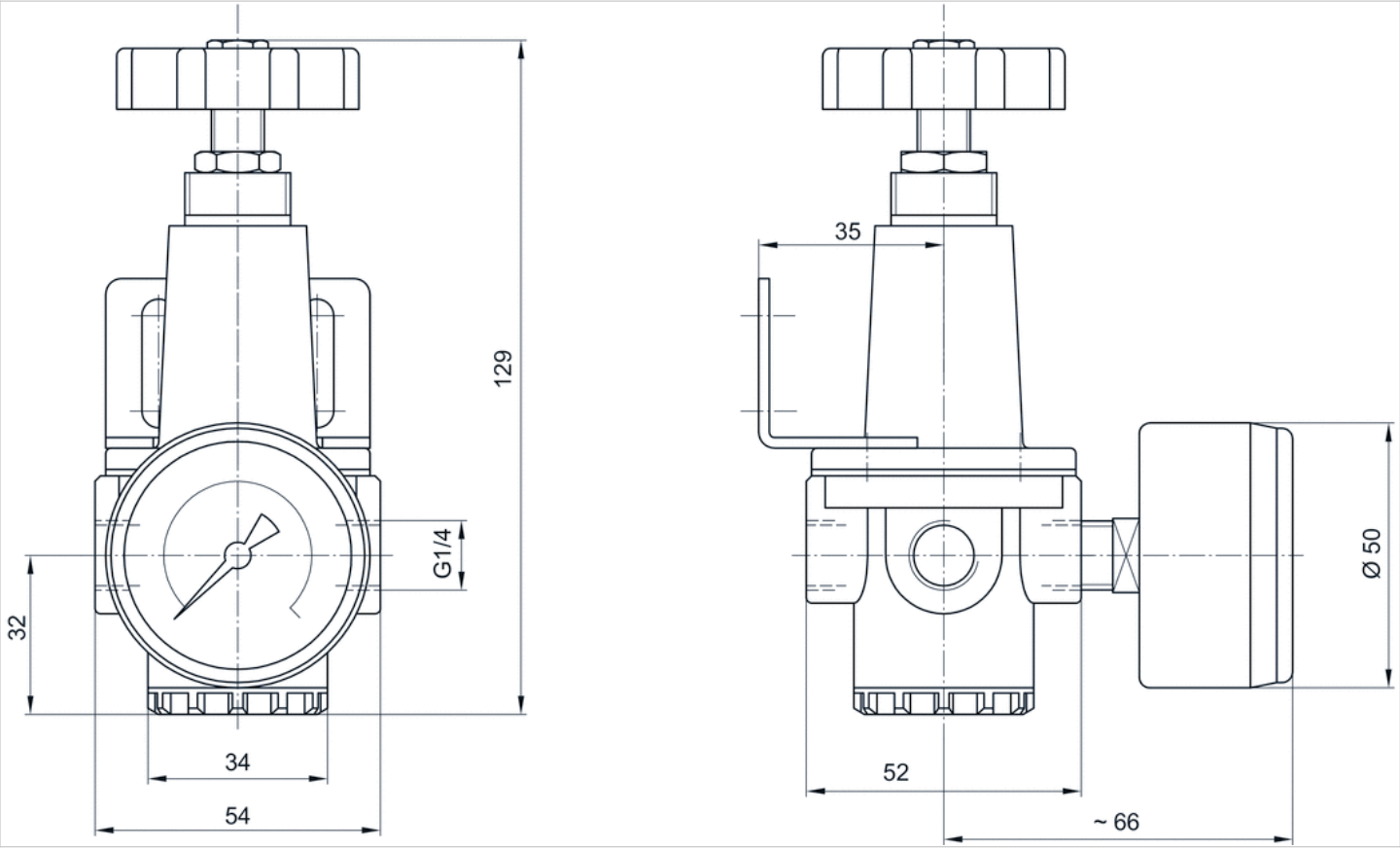
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting: panel installation or mounting bracket
Delivery incl. mounting bracket R412010110 and pressure gauge R412007898

Technical information

Material	
Housing	Steel
Seals	Nitrile rubber

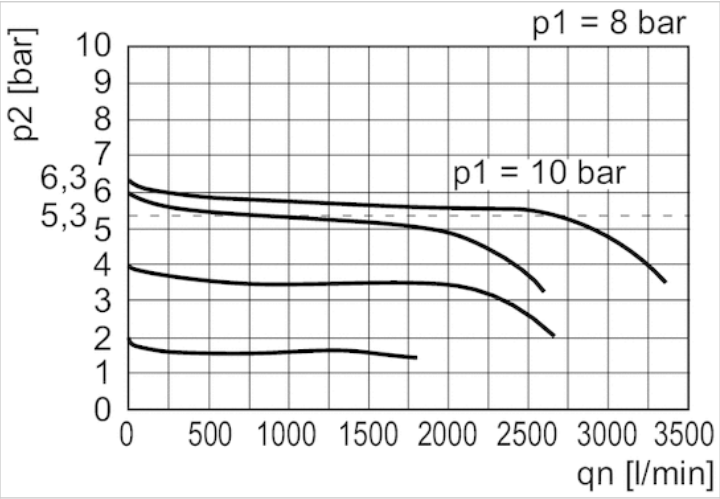
Dimensions

Dimensions



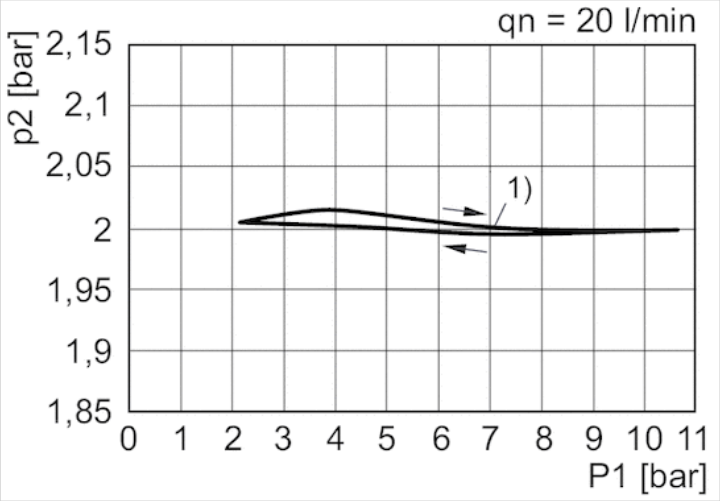
Diagrams

Flow rate characteristic



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure characteristics curve



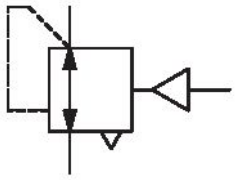
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow
1) Starting point

Pressure regulator, Series MU1-RGS

R412007600

General series information
MU1

- 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

Port
G 3/4

Qn =
15000 l/min

Mounting orientation
Any

Regulator type
Diaphragm-type pressure regulator

Regulation range min.
0.5 bar

Regulation range max.
20 bar

Working pressure min.
0.5 bar

Working pressure max
40 bar

Min. ambient temperature
-10 °C

Max. ambient temperature
80 °C

Activation
Pneumatically

ATEX
suitable for ATEX

Certificates
suitable for ATEX

Regulator function
with relieving air exhaust

Pressure supply
single

Medium
Compressed air
Neutral gases

Control pressure min.
0.5 bar

Control pressure max.
20 bar

Weight
2 kg

Material

Housing material
Zinc

Seal material
Nitrile rubber

Part No.
R412007600

Technical information

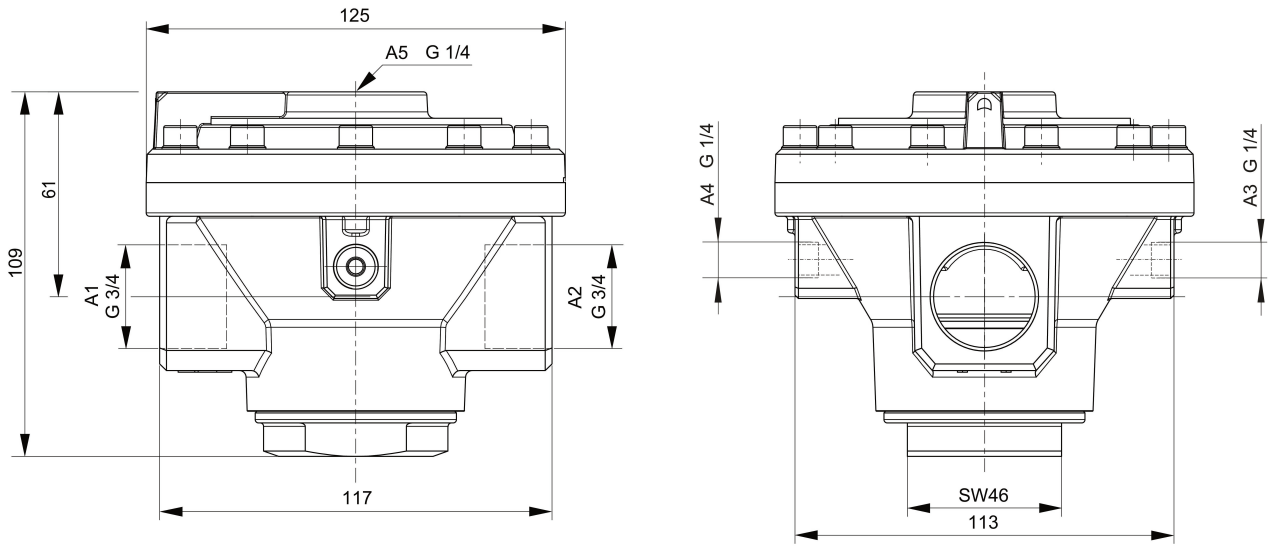
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

mounting: mounting bracket R412004873 or installation in piping

Suitable for use in Ex zones 1, 2, 21, 22.

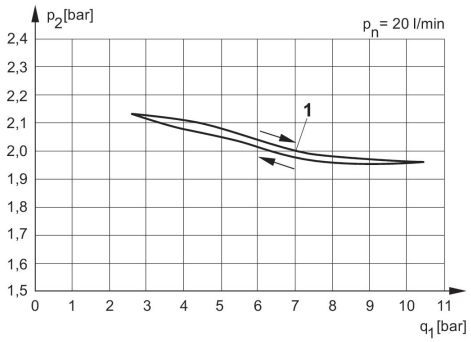
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



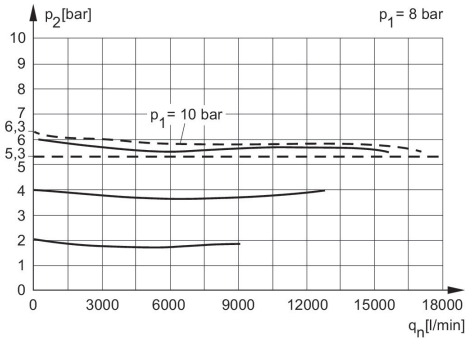
A1 = input
A2 = output
A3 = pressure gauge connection
A4 = pressure gauge connection back side
A5 = Control pressure connection
Pressure gauge holes A3 and A4 closed

Pressure characteristics curve



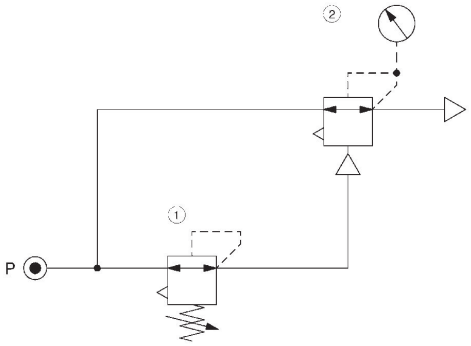
p1 = Working pressure
p2 = Secondary pressure
q = flow rate
1) Starting point

Flow rate characteristic, p2 = 0,05 - 7 bar



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Application example



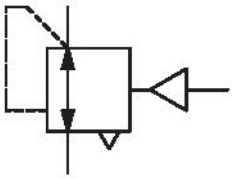
1) Precision pressure regulator
2) Pressure regulator valve, pneumatically operated

Pressure regulator, Series MU1-RGS

R976750953

General series information
MU1

- 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

Port
G 1

Qn =
15000 l/min

Mounting orientation
Any

Regulator type
Diaphragm-type pressure regulator

Regulation range min.
0.5 bar

Regulation range max.
20 bar

Working pressure min.
0.5 bar

Working pressure max
40 bar

Min. ambient temperature
-10 °C

Max. ambient temperature
80 °C

Activation
Pneumatically

ATEX
suitable for ATEX

Certificates
suitable for ATEX

Regulator function
with relieving air exhaust

Pressure supply
single

Medium
Compressed air
Neutral gases

Control pressure min.
0.5 bar

Control pressure max.
20 bar

Weight
2 kg

Material

Housing material
Die-cast aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
R976750953

Technical information

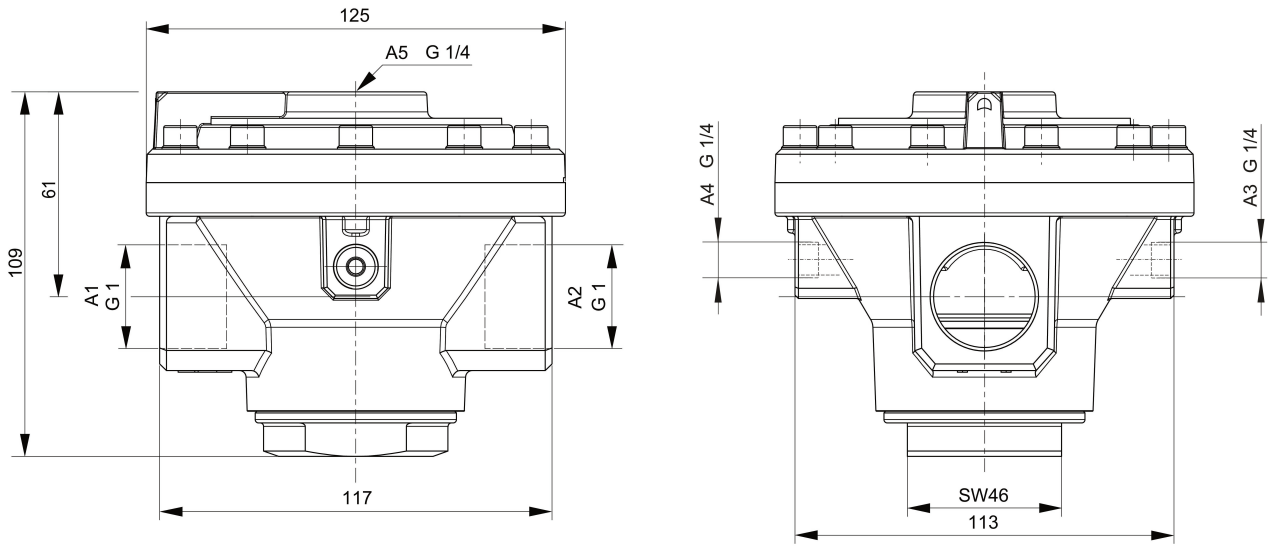
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

mounting: mounting bracket R412004873 or installation in piping

Suitable for use in Ex zones 1, 2, 21, 22.

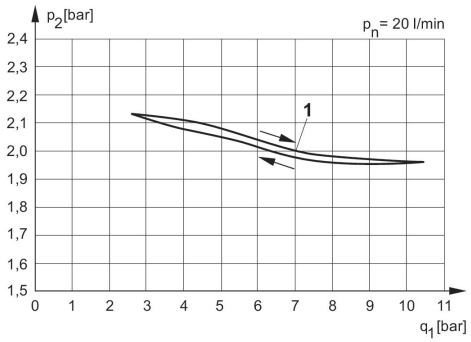
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



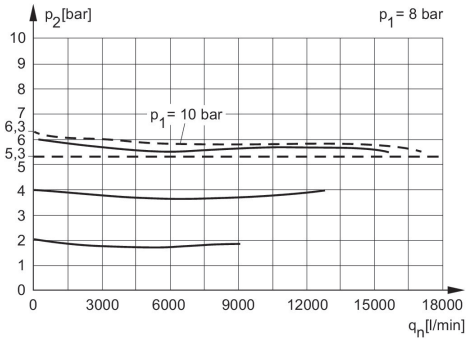
A1 = input
A2 = output
A3 = pressure gauge connection
A4 = pressure gauge connection back side
A5 = Control pressure connection
Pressure gauge A4 hole closed

Pressure characteristics curve



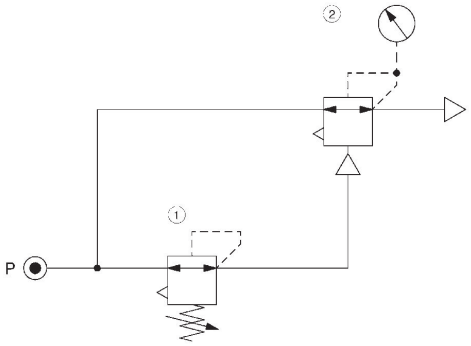
p1 = Working pressure
p2 = Secondary pressure
q = flow rate
1) Starting point

Flow rate characteristic, p2 = 0,05 - 7 bar



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Application example



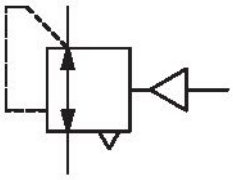
1) Precision pressure regulator
2) Pressure regulator valve, pneumatically operated

Pressure regulator, Series MU1-RGS

R412006577

General series information
MU1

- 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

Port
G 1 1/2

Qn =
31500 l/min

Mounting orientation
Any

Regulator type
Diaphragm-type pressure regulator

Regulation range min.
0.5 bar

Regulation range max.
20 bar

Working pressure min.
0.5 bar

Working pressure max
40 bar

Min. ambient temperature
-10 °C

Max. ambient temperature
80 °C

Activation
Pneumatically

ATEX
suitable for ATEX

Certificates
suitable for ATEX

Regulator function
with relieving air exhaust

Pressure supply
single

Medium
Compressed air
Neutral gases

Control pressure min.
0.5 bar

Control pressure max.
20 bar

Weight
2 kg

Material

Housing material
Die-cast aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
R412006577

Technical information

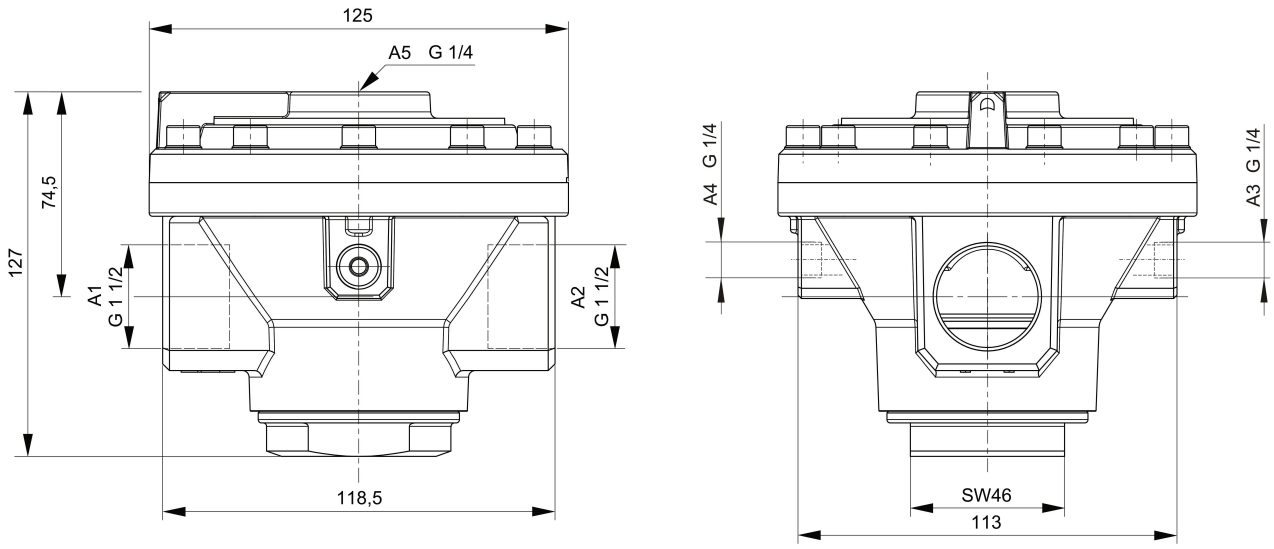
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

mounting: mounting bracket R412004873 or installation in piping

Suitable for use in Ex zones 1, 2, 21, 22.

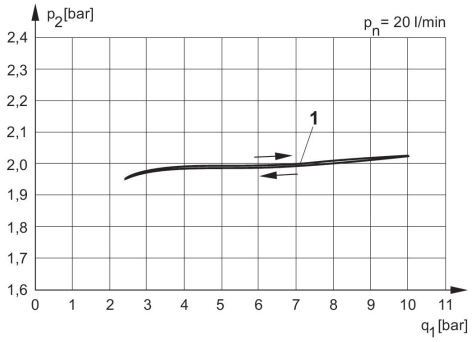
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



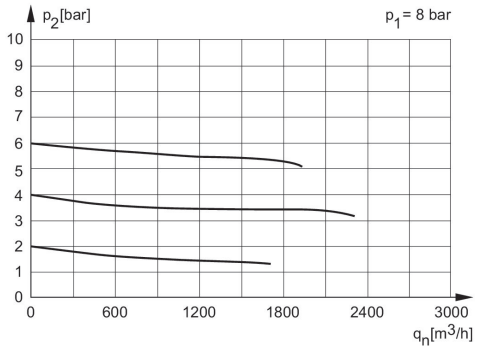
A1 = input
A2 = output
A3 = pressure gauge connection
A4 = pressure gauge connection back side
A5 = Control pressure connection
Pressure gauge A4 hole closed

Pressure characteristics curve



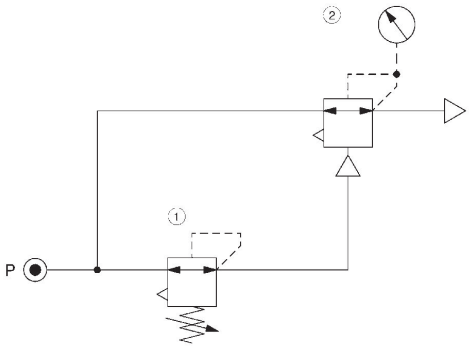
p1 = Working pressure
p2 = Secondary pressure
q = flow rate
1) Starting point

Flow rate characteristic, p2 = 0,05 - 7 bar



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

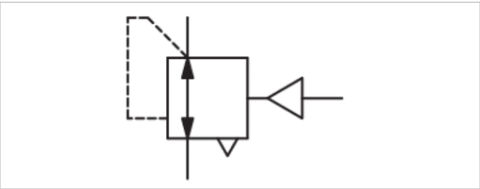
Application example



1) Precision pressure regulator
2) Pressure regulator valve, pneumatically operated

Pressure regulator, Series MU1-RGS

- G 2
- Qn = 50000 l/min
- Standard pressure regulator
- Activation pneumatically
- suitable for ATEX



Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0.5 ... 25 bar
Control pressure min./max.	16 bar
Ambient temperature min./max.	-10 ... 80 °C
Medium temperature min./max.	-10 ... 80 °C
Medium	Compressed air Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 ... 16 bar
Pressure supply	single
Activation	pneumatically
Weight	4.68 kg

Technical data

Part No.	Port	Flow
		Qn
R412006578	G 2	50000 l/min

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar, Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

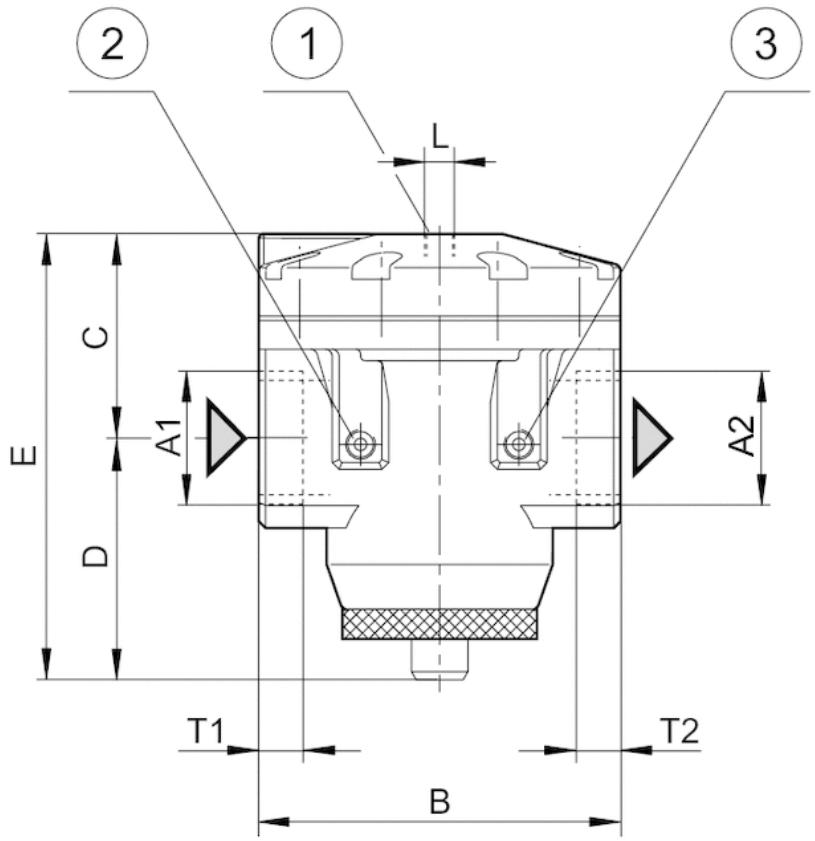
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting type: for installing in piping
Suitable for use in Ex zones 1, 2, 21, 22.

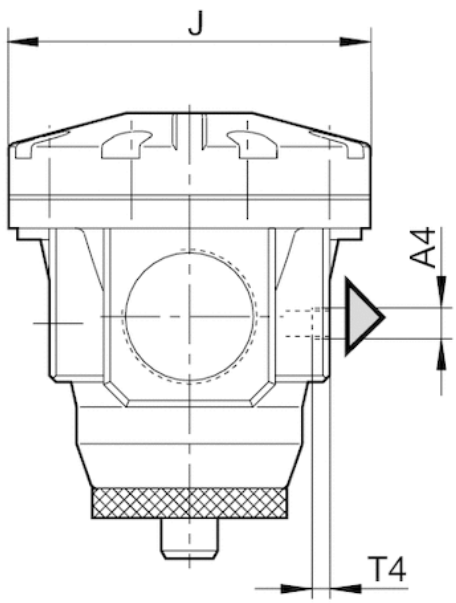
Technical information

Material	
Housing	Die-cast aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions





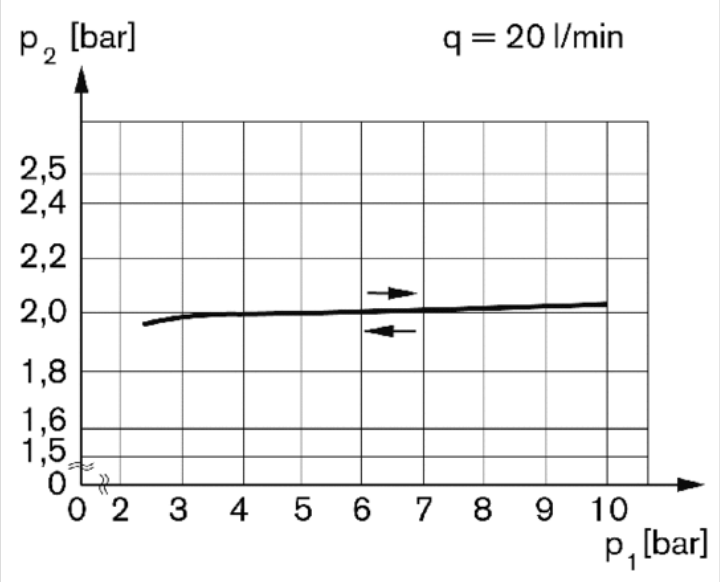
1) Pilot connection
2) Pressure gauge connection P1
3) Pressure gauge connection P2

Dimensions

A1	A2	A4	B ±5	C ±5	D ±5	E ±7	J ±5	L	T1	T2	T4
G 2	G2	G 1/4	160	90	107	197	160	G 1/4	30	30	9.5

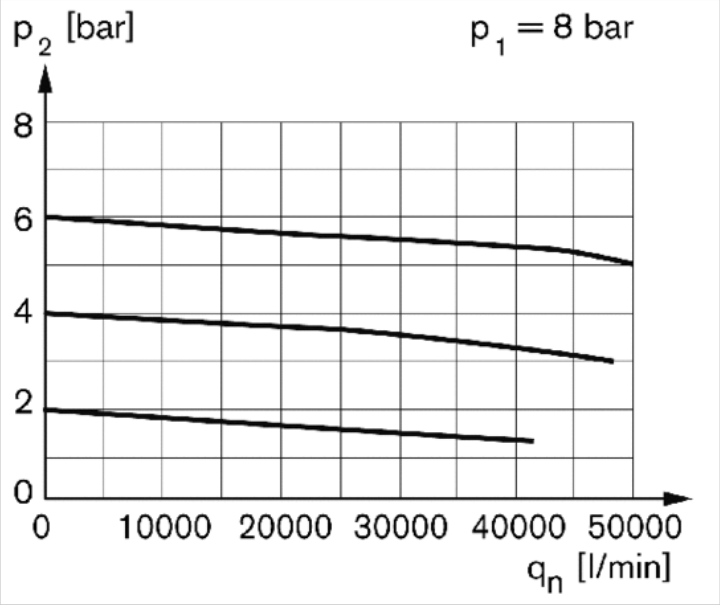
Diagrams

Pressure characteristics curve



p1 = working pressure
p2 = secondary pressure
q = flow rate
* starting point

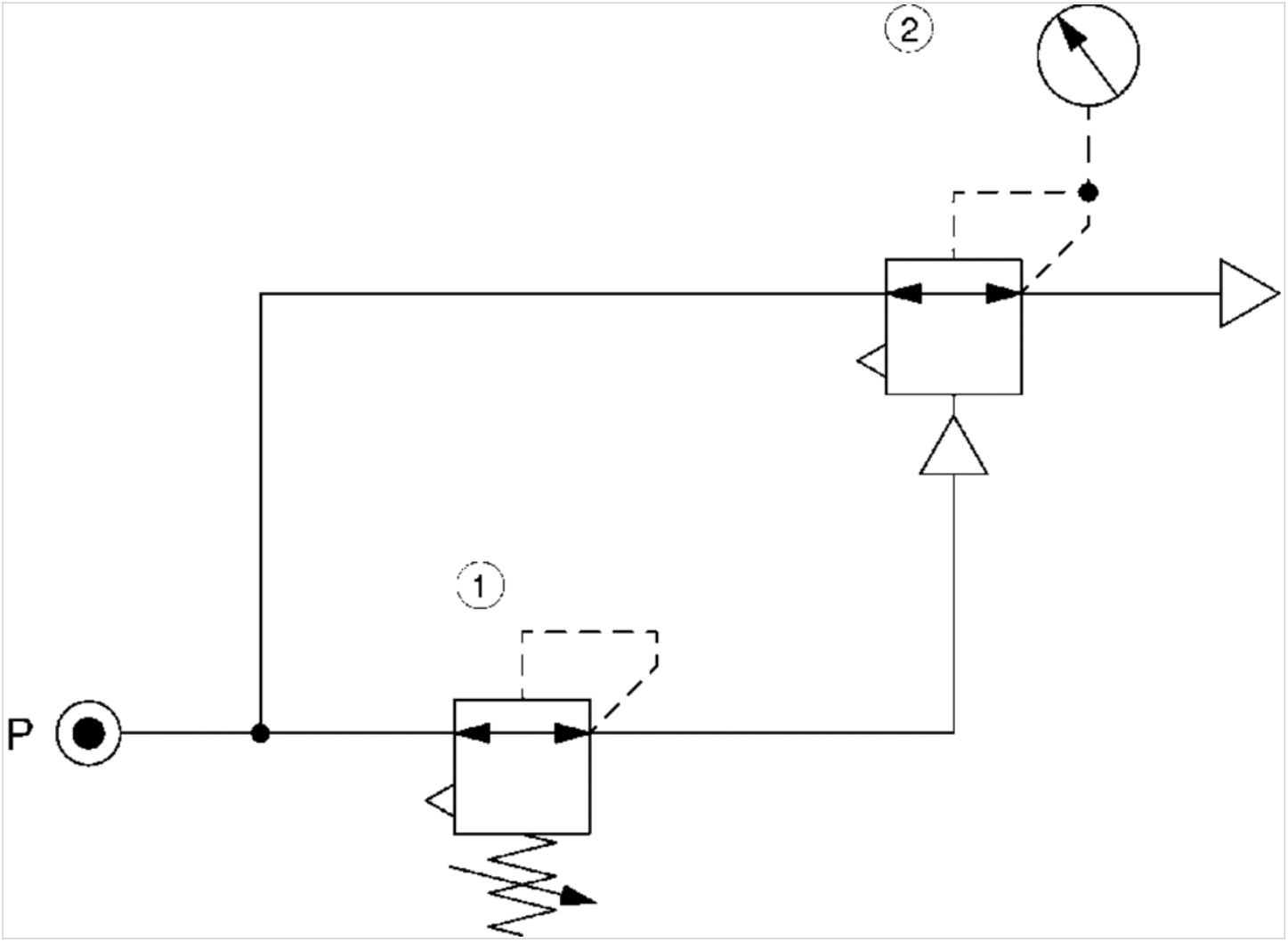
Flow rate characteristic (secondary range p2: 0.5 - 10 bar)



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Circuit diagram

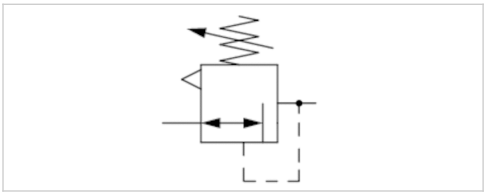
Application example



1) precision pressure regulator
2) pressure regulator valve, pneumatically operated

Pressure regulator, Series MU1-RGS

- G 1/8 G 1/4
- Qn = 450 l/min
- Standard pressure regulator
- Activation Mechanical



Parts	Pressure regulator
Mounting orientation	Any
Working pressure min./max.	0.5 ... 25 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Activation	Mechanical
Weight	See table below

Technical data

Part No.	Port	Flow	Adjustment range min./max.	Weight
		Qn		
0821302425	G 1/8	450 l/min	0.1 ... 3.5 bar	0.14 kg
0821302426	G 1/8	450 l/min	0.15 ... 7 bar	0.14 kg
0821302427	G 1/8	450 l/min	0.4 ... 10 bar	0.14 kg
0821302429	G 1/4	450 l/min	0.1 ... 3.5 bar	0.12 kg
0821302448	G 1/4	450 l/min	0.15 ... 7 bar	0.12 kg
0821302449	G 1/4	450 l/min	0.4 ... 10 bar	0.12 kg

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Technical information

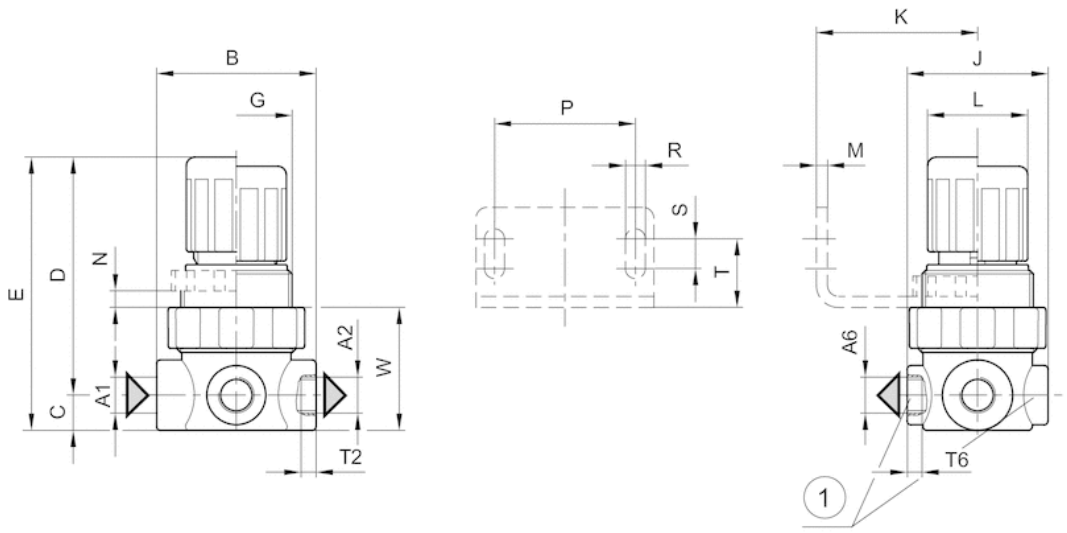
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting with mounting bracket 1821331013

Technical information

Material	
Housing	Die cast zinc
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



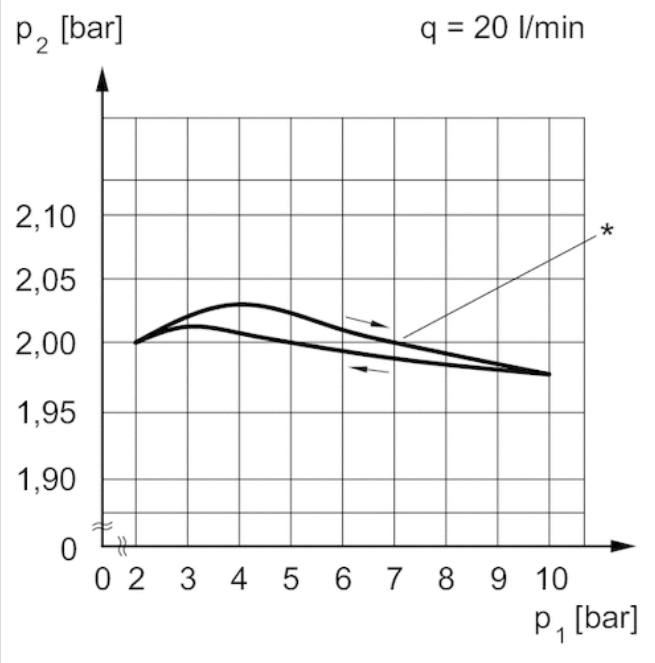
1) Pressure gauge connection

Dimensions

A1	A2	A6	B	C	D	E	G	J	K	L	M	N	P	R	S	T	T2	T6	W
G 1/8	G 1/8	G 1/8	43	9.5	61	70.5	M30x1,5	38	40	27	3	5	38	5.4	8	18.5	8	8	33
G 1/4	G 1/4	G 1/8	43	9.5	61	70.5	M30x1,5	38	40	27	3	5	38	5.4	8	18.5	8	8	33

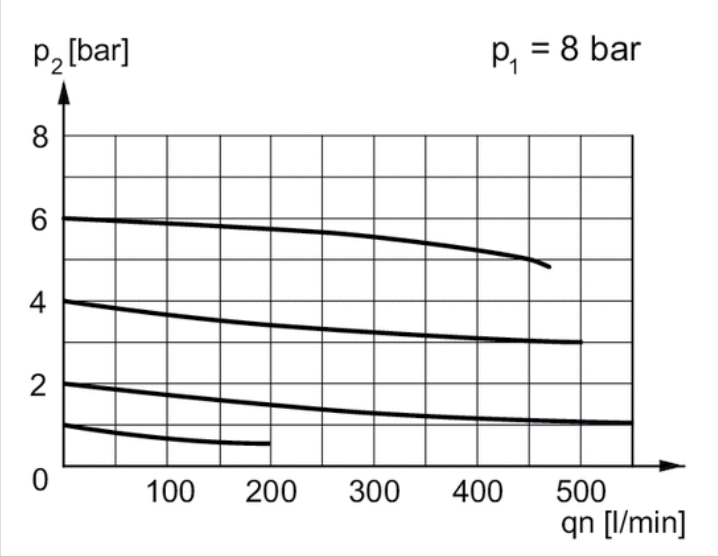
Diagrams

Pressure characteristics curve



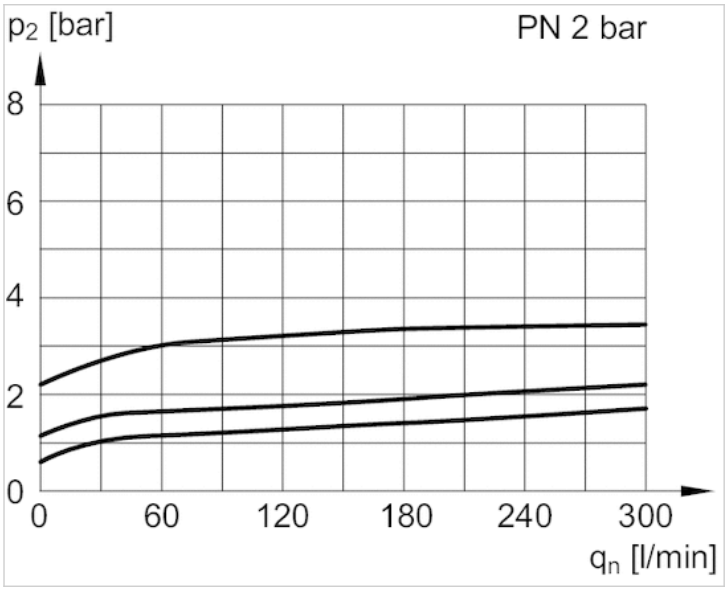
p1 = working pressure
p2 = secondary pressure
q = flow rate
* starting point

Flow rate characteristic



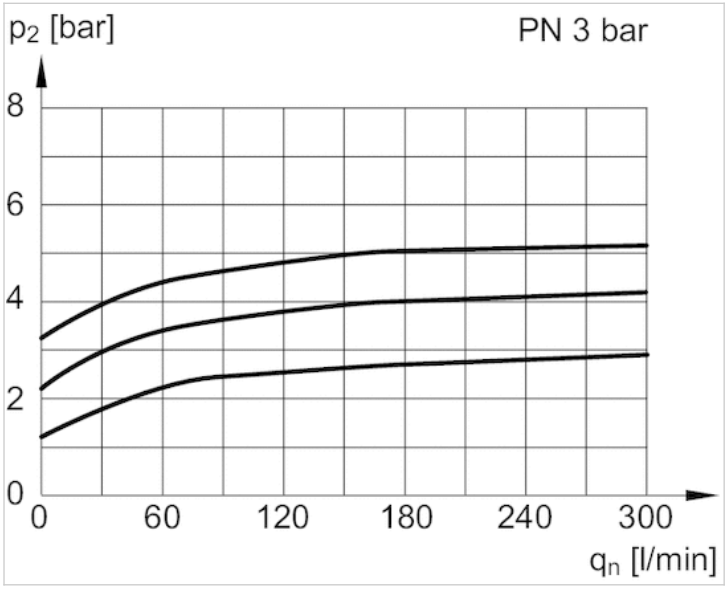
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Exhaust



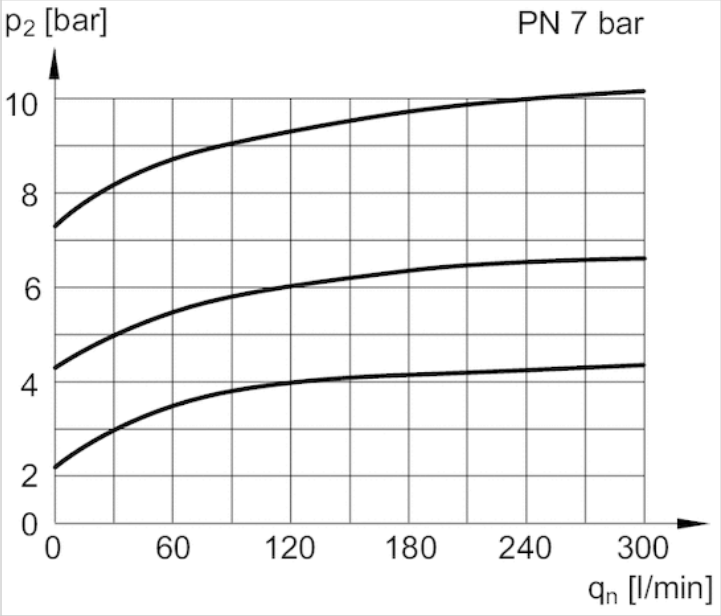
p2 = secondary pressure
qn = nominal flow

Exhaust



p2 = secondary pressure
qn = nominal flow

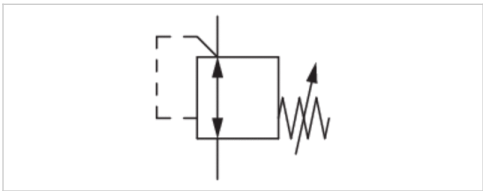
Exhaust



p2 = secondary pressure
qn = nominal flow

Pressure regulator, Series MU1-RGS

- G 1/4
- Qn = 450 l/min
- Standard pressure regulator
- Activation Mechanical
- Medium: oxygen, Compressed air, Neutral gases



Parts	Pressure regulator
Mounting orientation	Any
Working pressure min./max.	0.5 ... 14 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air Neutral gases Oxygen
Regulator type	Diaphragm-type pressure regulator
Regulator function	Without relieving exhaust
Adjustment range min./max.	0.4 ... 10 bar
Pressure supply	single
Activation	Mechanical
Weight	0.35 kg

Technical data

Part No.	Port	Flow
		Qn
R412007781	G 1/4	450 l/min

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Technical information

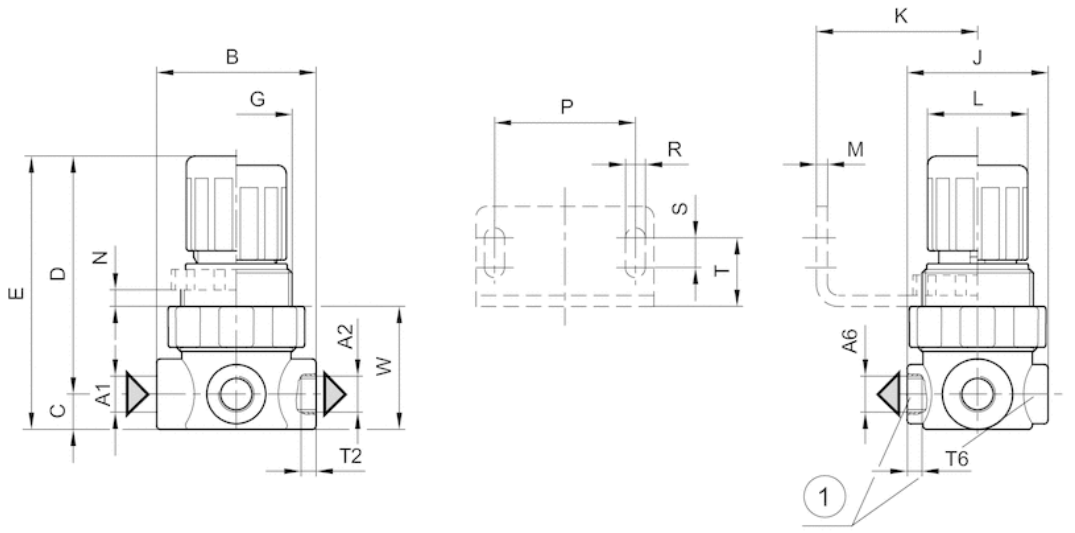
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting with mounting bracket 1821331013

Technical information

Material	
Housing	Brass
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



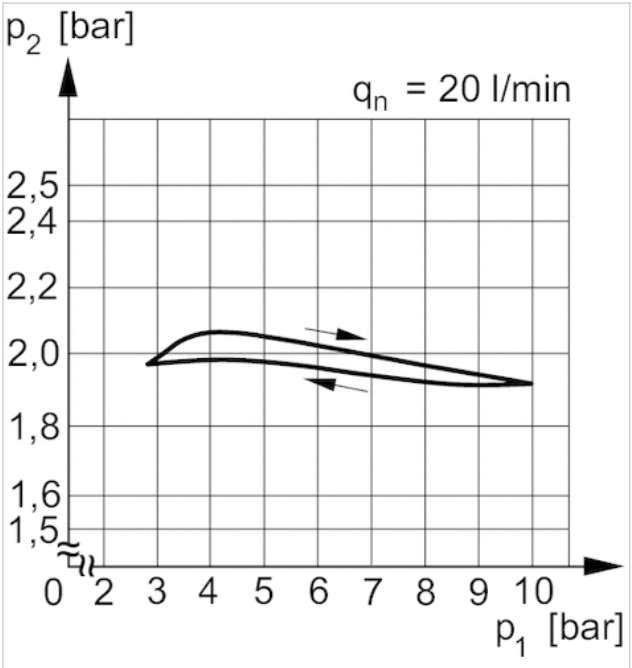
1) Pressure gauge connection

Dimensions

A1	A2	A6	B	C	D	E	G	J	K	L	M	N	P	R	S	T	T2	T6	W
G 1/4	G 1/4	G 1/8	43	9.5	61	70.5	M30x1,5	38	40	27	3	5	38	5.4	8	18.5	8	8	33

Diagrams

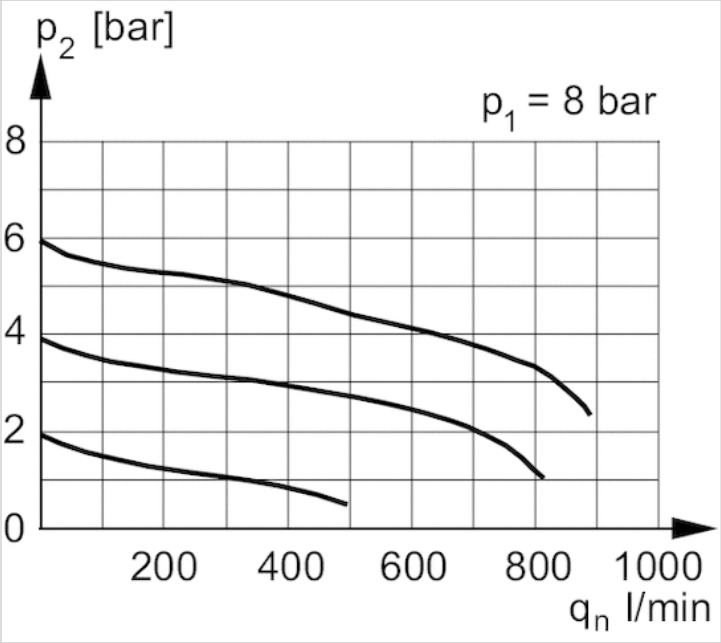
Pressure characteristics curve



p1 = Working pressure
p2 = Secondary pressure

qn = Nominal flow

Flow rate characteristic



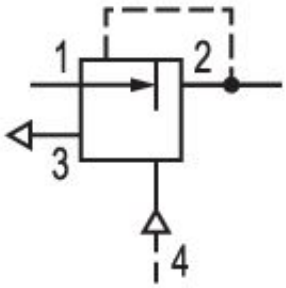
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series MU1-RGS

0821302026

General series information
Series MU1

- 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

Port
G 1/2

Qn =
5500 l/min

Mounting orientation
Any

Regulator type
Diaphragm-type pressure regulator

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

Medium
Compressed air

Neutral gases

Control pressure max.
8 bar

Weight
1.1 kg

Material

Housing material
Die-cast aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
0821302026

Technical information

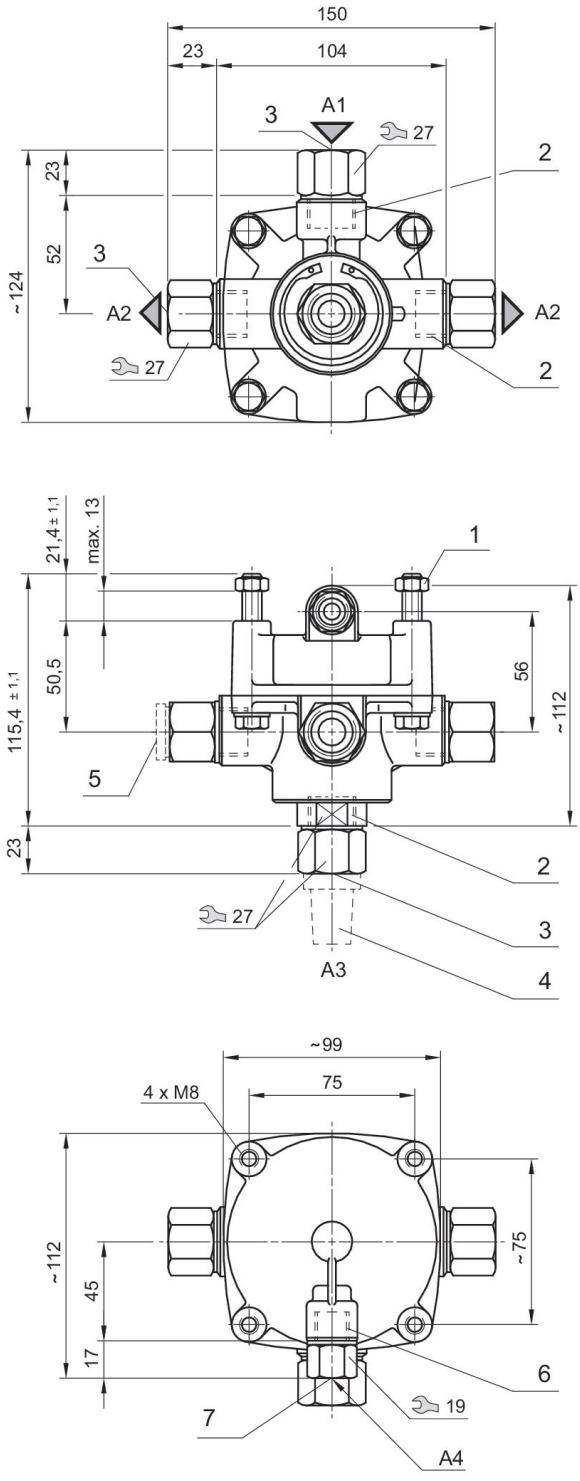
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

Relieving exhaust (≤ 0.2 bar over set pressure)

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

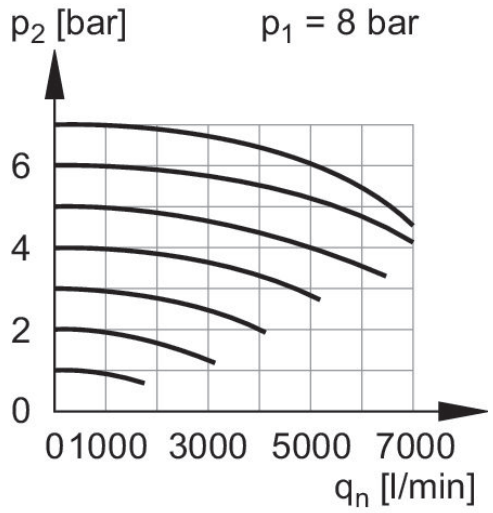
Dimensions in mm



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, p2 = 0,05 - 7 bar

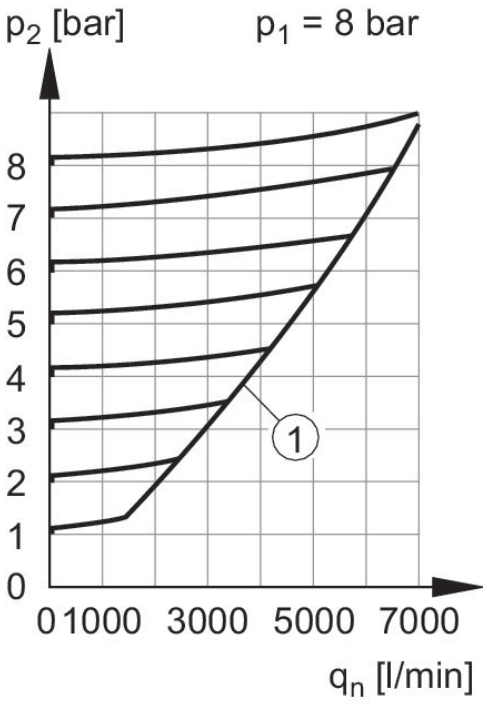
from connection 1 to 2



p1 = working pressure
p2 = secondary pressure
qn = nominal flow

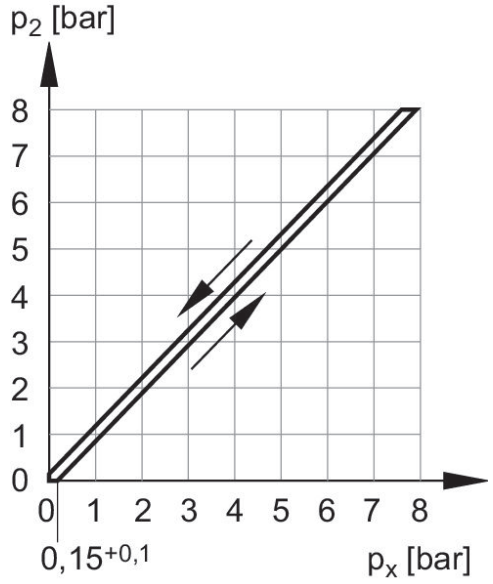
Flow rate characteristic, p2 = 0,05 - 7 bar

from connection 2 to 3



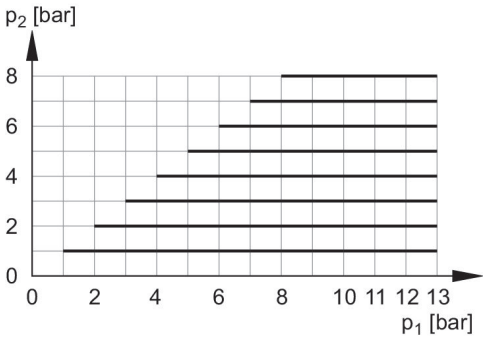
p1 = working pressure
p2 = secondary pressure
qn = nominal flow
1) with silencer 1827000003

Pressure characteristics curve



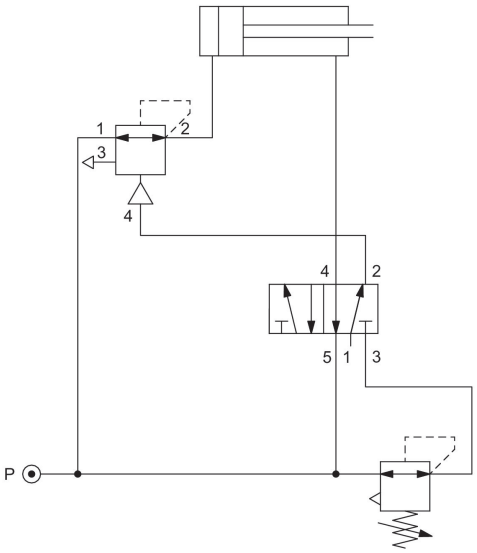
px = control pressure
p2 = output pressure

Pressure characteristics curve



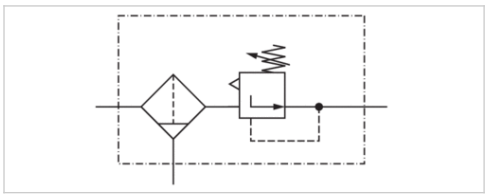
Input pressure p1/output pressure p2
p1 = working pressure
p2 = secondary pressure
px = control pressure

Application example



Filter pressure regulator, Series MU1-FRE

- G 1
- filter porosity 40 µm



Version	1-part
Parts	Filter pressure regulator
Mounting orientation	vertical
Working pressure min./max.	0.5 ... 16 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Nominal flow Qn	7000 l/min
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 ... 10 bar
Pressure supply	single
Filter reservoir volume	300 cm³
Filter element	exchangeable
Condensate drain	Manual
Weight	2.4 kg

Technical data

Part No.	Port	filter porosity	Flow	Condensate drain
			Qn	
9155522410	G 1	40 µm	7000 l/min	Manual

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Technical information

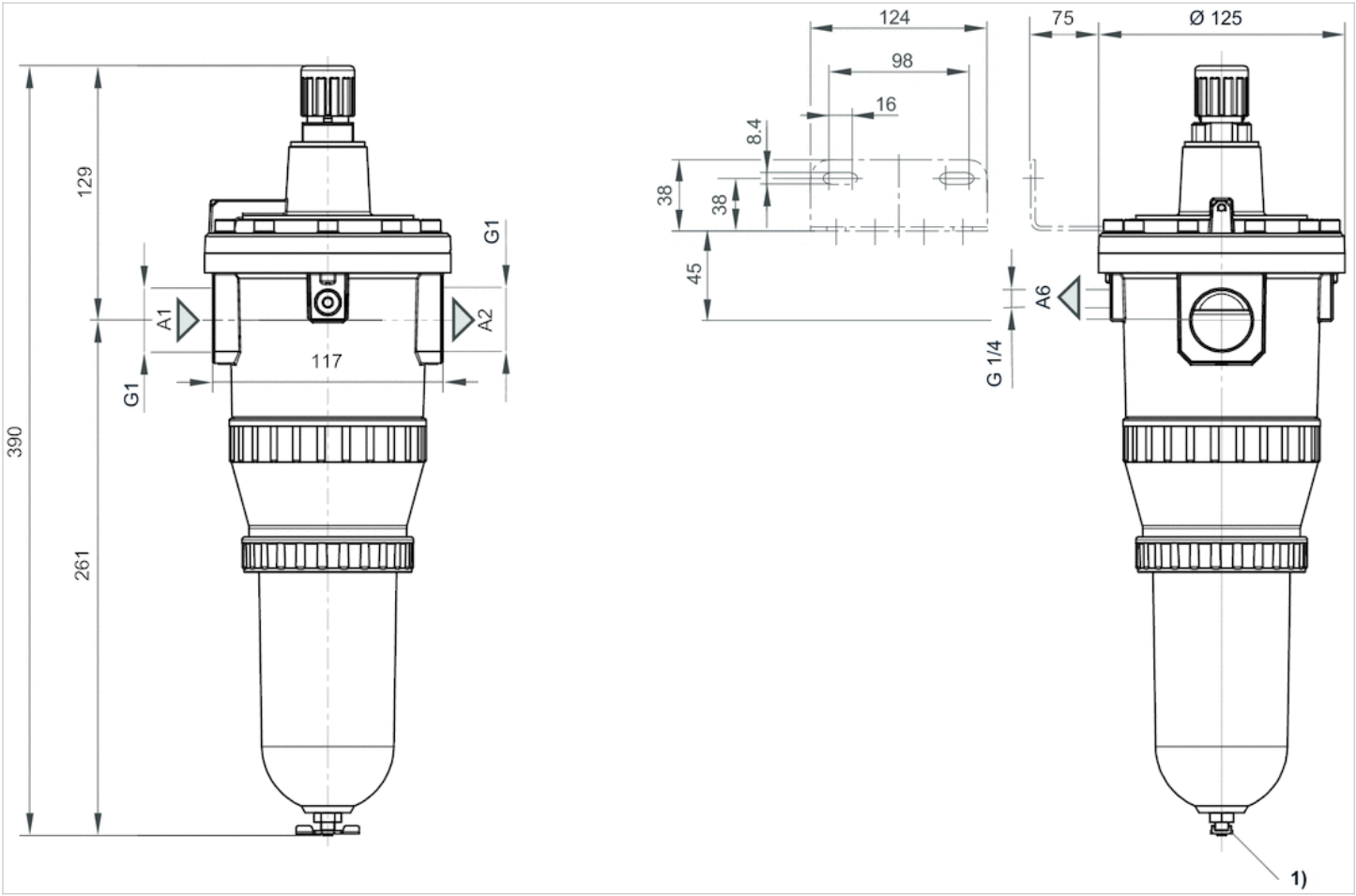
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting: panel installation or mounting bracket R412004873

Technical information

Material	
Housing	Die-cast aluminum
Seals	Acrylonitrile butadiene rubber
Reservoir	Die-cast aluminum
Filter insert	Polyethylene

Dimensions

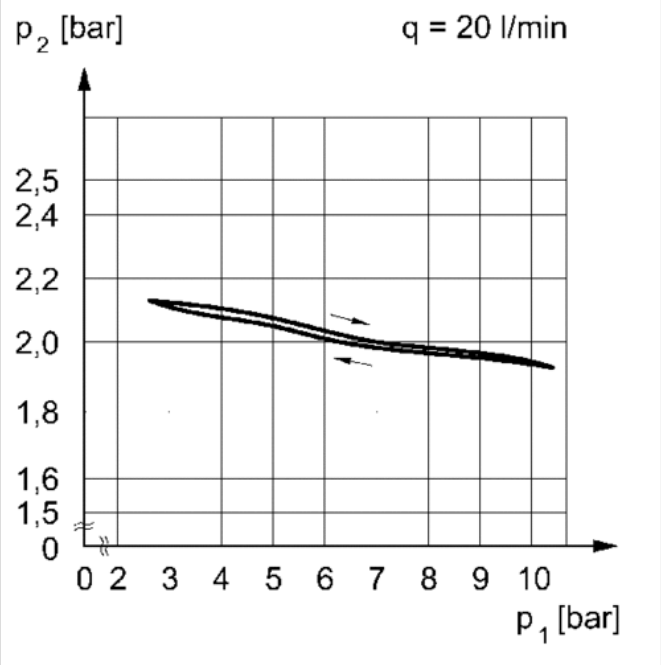
Dimensions



1) Semi-automatic condensate drain

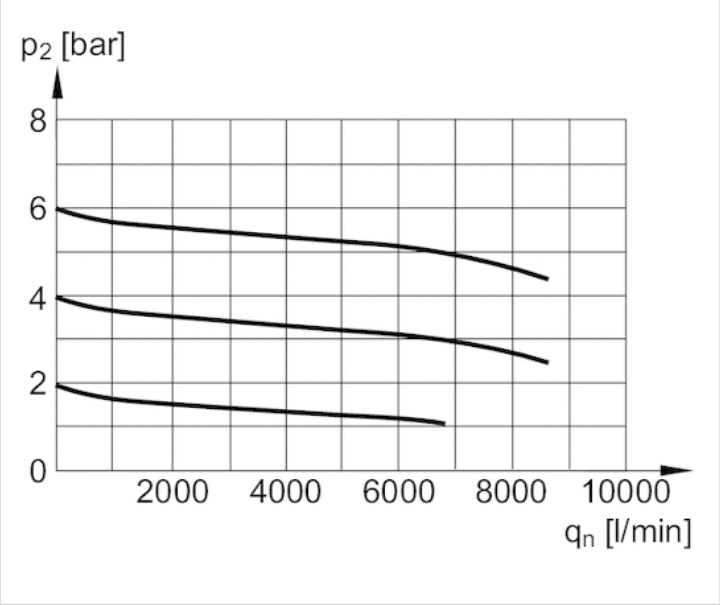
Diagrams

Pressure characteristics curve



p1 = working pressure
p2 = secondary pressure
qn = nominal flow
q = flow rate

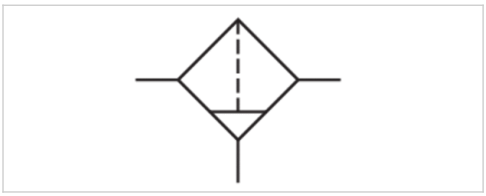
Flow rate characteristic



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Filter, Series MU1-FLS

- G 1
- filter porosity 40 µm



Version	Standard filter
Parts	Filter
Mounting orientation	vertical
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Filter reservoir volume	65 cm³
Filter element	exchangeable
filter porosity	40 µm
Condensate drain	See table below
Weight	1.05 kg

Technical data

Part No.	Port	Flow Qn	Working pressure min./max.	Condensate drain
R412006562	G 1	4000 l/min	2 ... 16 bar	semi-automatic, open without pressure
R412006585	G 1	4000 l/min	0 ... 25 bar	Manual

Part No.	Version	ATEX	
R412006562	reservoir, polycarbonate, with metal protective guard	suitable for ATEX	1)
R412006585	Metal reservoir without window	-	-

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

1) Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting: mounting bracket R412004874 or installation in piping

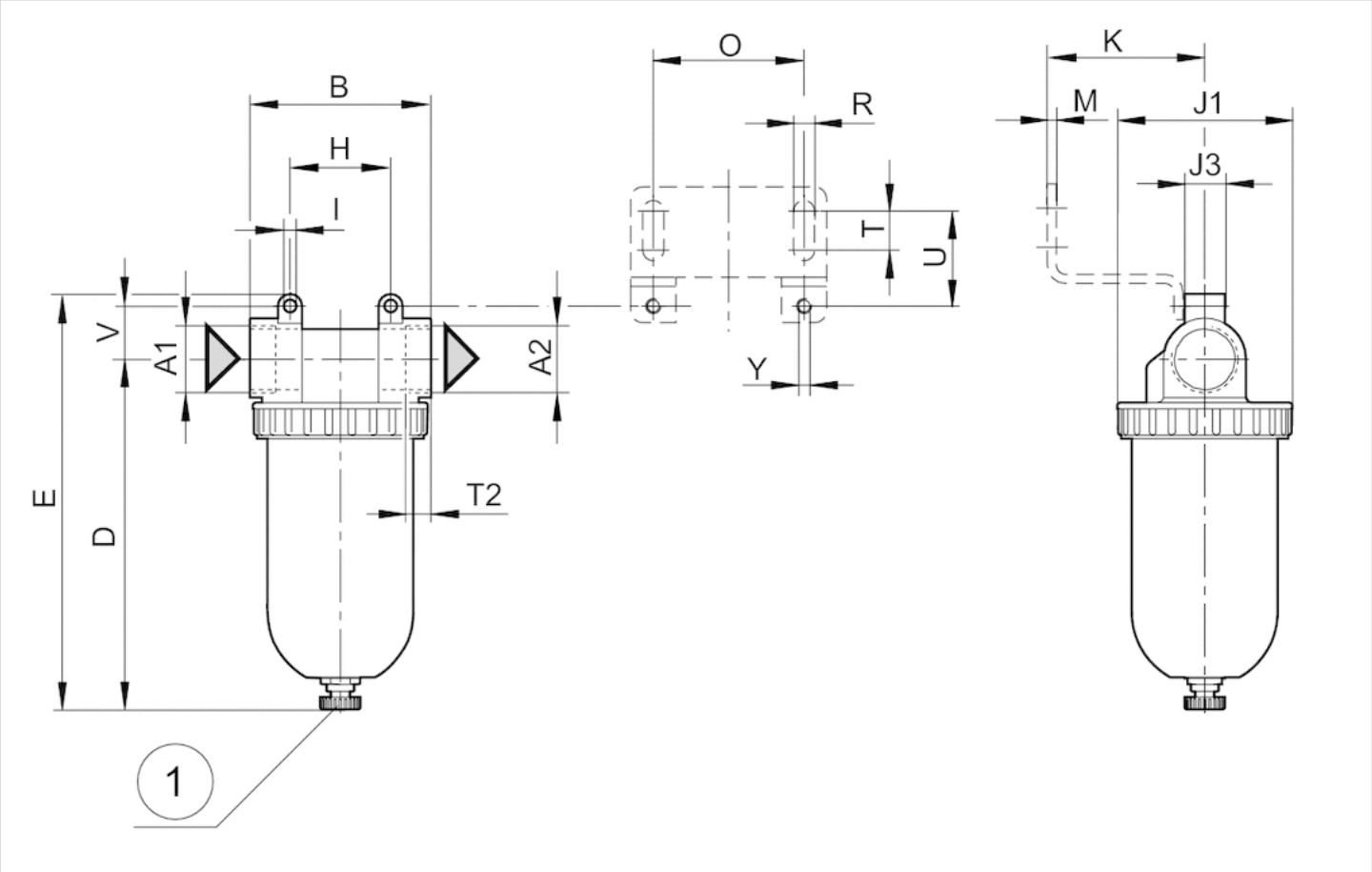
Technical information

Material	
Housing	Die-cast aluminum
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate Die cast zinc

Material	
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



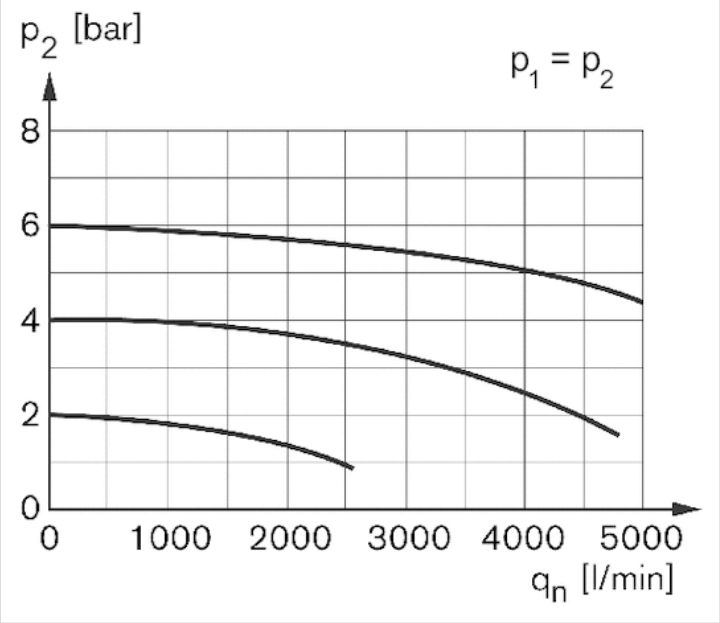
1) manual or semi-automatic condensate drain

Dimensions

A1	A2	B	D ±5	E ±7	H	I	J1	J3	K	M	O	R	T	T2	U	V	Y
G 1	G 1	90	174	206	50	6.2	87	20	55	3	50	7	13	16	31.5	26.5	M6

Diagrams

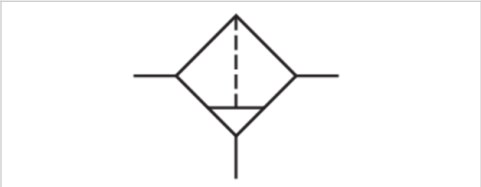
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Filter, Series MU1-FLS

- G 1 G 1 1/4 G 1 1/2
- filter porosity 40 µm



Version	Standard filter
Parts	Filter
Mounting orientation	vertical
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Filter reservoir volume	300 cm³
Filter element	exchangeable
filter porosity	40 µm
Condensate drain	See table below
Weight	1.5 kg

Technical data

Part No.	Port	Flow Qn	Working pressure min./max.
R412007587	G 1	12500 l/min	1.5 ... 16 bar
9155520220	G 1	12500 l/min	0 ... 25 bar
R412007588	G 1 1/4	12500 l/min	1.5 ... 16 bar
R412006583	G 1 1/4	12500 l/min	1.5 ... 16 bar
R412006565	G 1 1/4	12500 l/min	0 ... 25 bar
R412007599	G 1 1/2	12500 l/min	1.5 ... 16 bar
R412006566	G 1 1/2	12500 l/min	0 ... 25 bar

Part No.	Condensate drain
R412007587	semi-automatic, open without pressure
9155520220	fully automatic, open without pressure
R412007588	semi-automatic, open without pressure
R412006583	fully automatic, open without pressure
R412006565	Manual
R412007599	fully automatic, open without pressure
R412006566	Manual

Part No.	Version	ATEX	
R412007587	reservoir, polycarbonate, with metal protective guard	suitable for ATEX	1)
9155520220	Metal reservoir without window	suitable for ATEX	1)
R412007588	reservoir, polycarbonate, with metal protective guard	suitable for ATEX	1)
R412006583	Metal reservoir without window	suitable for ATEX	1)

Part No.	Version	ATEX	
R412006565	Metal reservoir without window	suitable for ATEX	1)
R412007599	Metal reservoir without window	suitable for ATEX	1)
R412006566	Metal reservoir without window	-	-

Nominal flow Qn with secondary pressure 6 bar at Δp = 1 bar

1) Suitable for use in Ex zones 1, 2, 21, 22., suitable for ATEX

Technical information

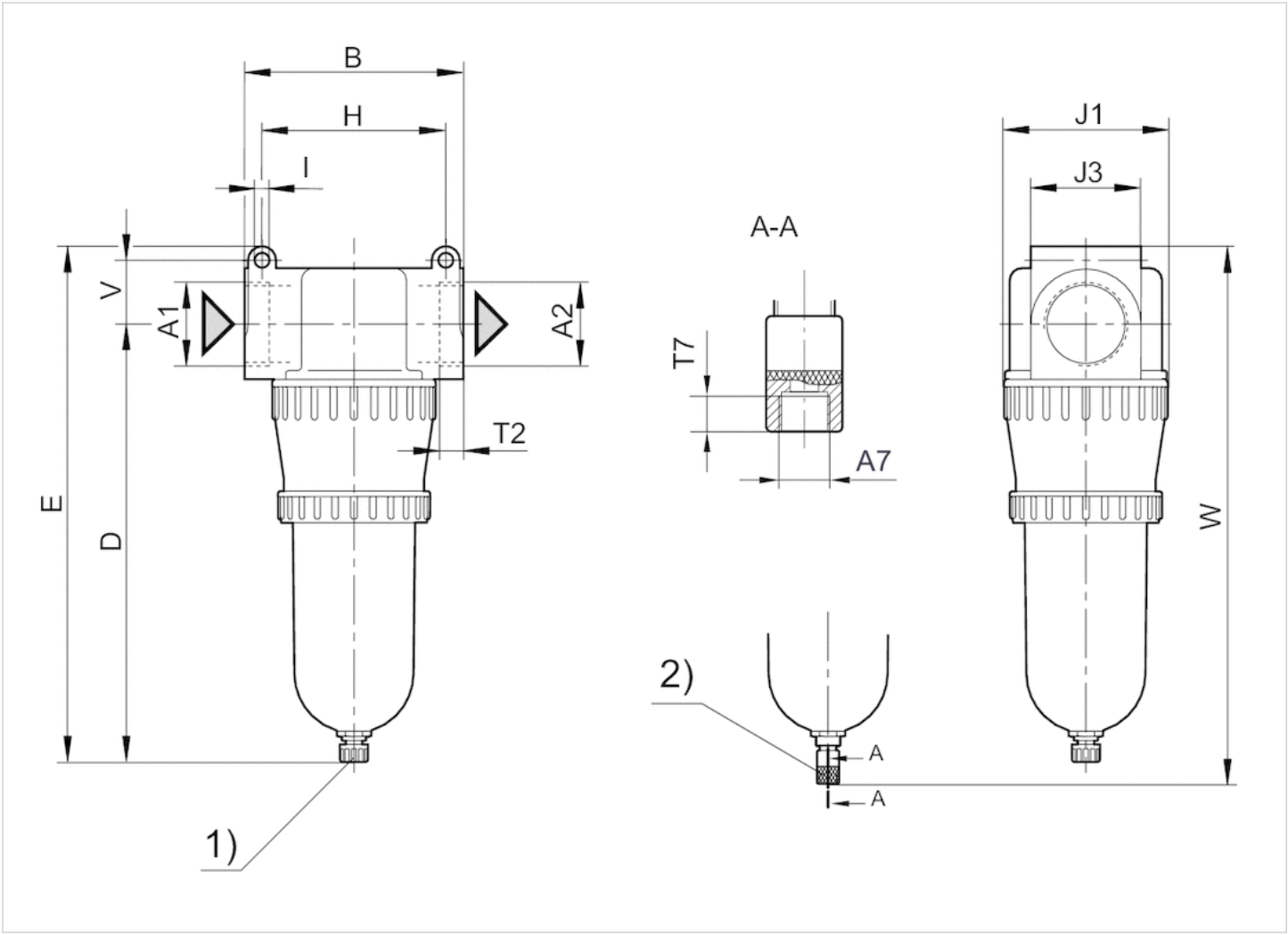
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
mounting: for installing in piping or via 2 through-holes in housing

Technical information

Material	
Housing	Die cast zinc
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



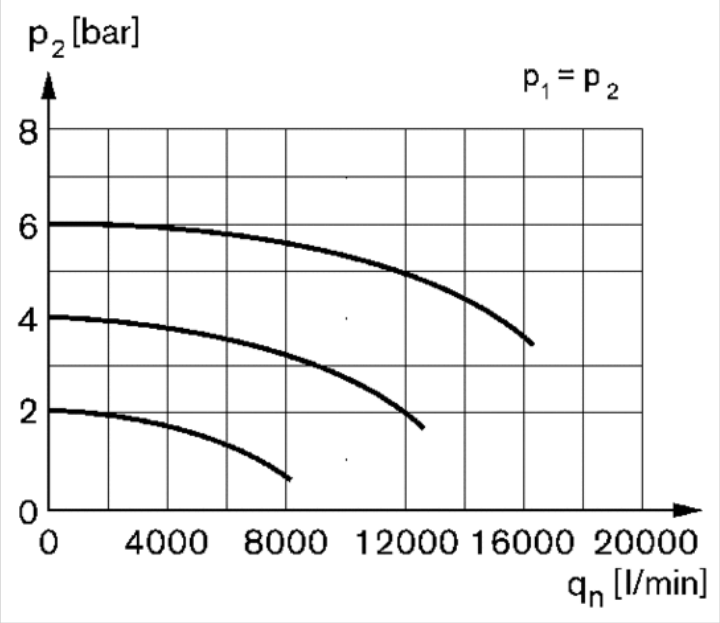
1) manual + semi-automatic condensate drain 2) fully automatic condensate drain

Dimensions

A1	A2	A7	B ±7	D ±7	E ±7	H	I	J1	J3	T2	T7	V ±5	W ±7
G 1	G 1	G 1/8	125	250	286.5	105	8.5	100	63	25	8.5	36.5	307
G 1 1/4	G 1 1/4	G 1/8	125	250	286.5	105	8.5	100	63	25	8.5	36.5	307
G 1 1/2	G 1 1/2	G 1/8	125	250	286.5	105	8.5	100	63	25	8.5	36.5	307

Diagrams

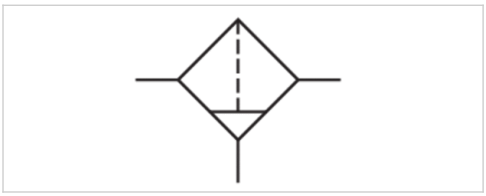
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Filter, Series MU1-FLS

- G 1 1/2 G 2
- filter porosity 8 60 µm
- suitable for ATEX



Version	Standard filter
Parts	Filter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Filter reservoir volume	300 cm³
Filter element	exchangeable
Condensate drain	See table below
Weight	3.5 kg

Technical data

Part No.	Port	filter porosity	Flow Qn	Working pressure min./max.
R412000667	G 1 1/2	8 µm	30000 l/min	0 ... 16 bar
R412006568	G 2	60 µm	30000 l/min	0 ... 16 bar
R412006570	G 2	60 µm	30000 l/min	2 ... 12 bar
R412006571	G 2	8 µm	30000 l/min	2 ... 12 bar

Part No.	Condensate drain
R412000667	Manual
R412006568	Manual
R412006570	fully automatic, open without pressure
R412006571	fully automatic, open without pressure

Part No.	Version
R412000667	reservoir, polycarbonate, with metal protective guard
R412006568	reservoir, polycarbonate, without protective guard
R412006570	Metal reservoir without window
R412006571	Metal reservoir without window

Suitable for use in Ex zones 1, 2, 21, 22., Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar, Metal protective guard can be retrofitted for all polycarbonate reservoirs

Technical information

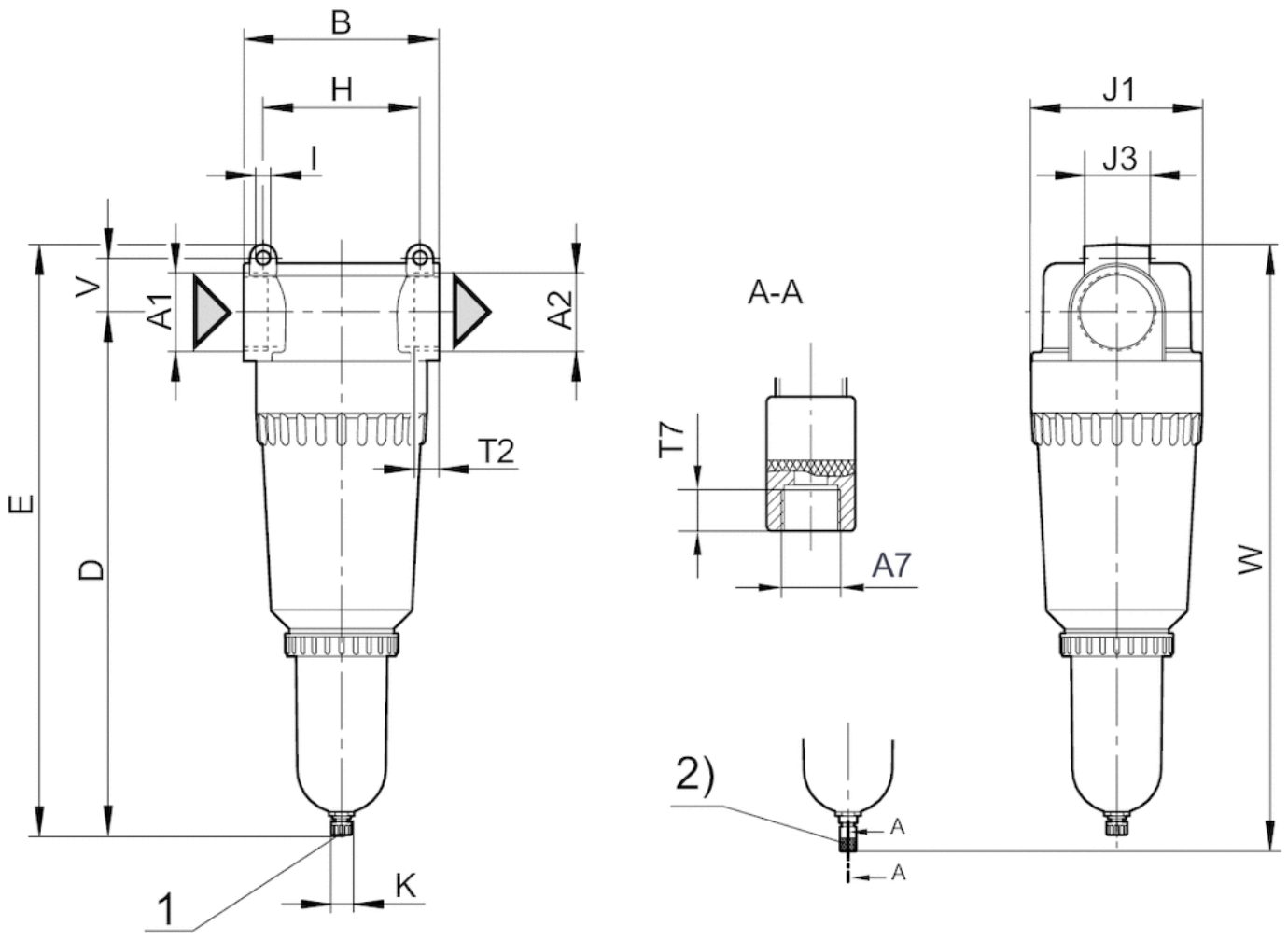
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting via 2 through-holes in housing
Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

Material	
Housing	Die cast zinc
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



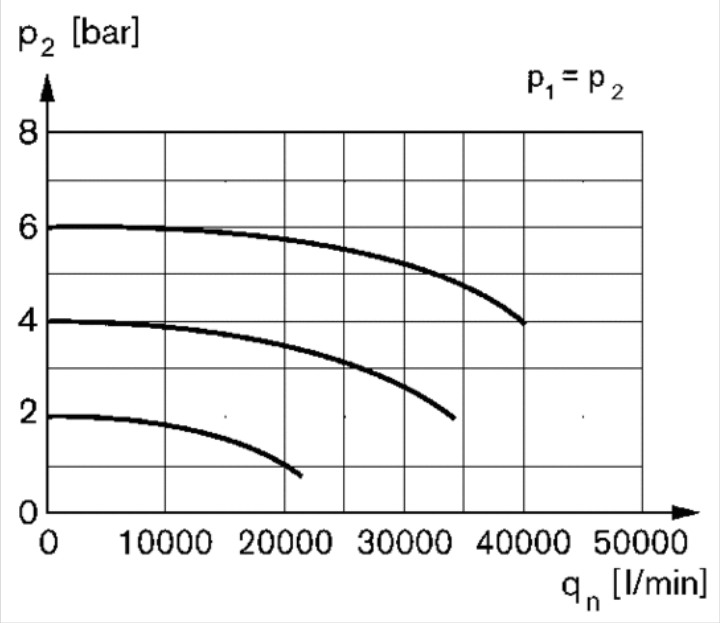
1) manual condensate drain
2) fully automatic condensate drain

Dimensions

A1	A2	A7	B ±7	D ±7	E ±7	H	I	J1	J3	T2	T7	V ±5	W ±7
G 1 1/2	G 1 1/2	G 1/8	150	383	424	120	10.5	131	50	24	8.5	41	441.5
G 2	G 2	G 1/8	150	400.5	452	120	10.5	131	50	24	8.5	41	464.5

Diagrams

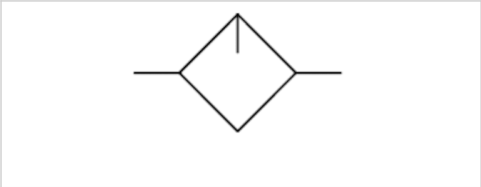
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Standard oil-mist lubricator, Series MU1-LBS

- G 1 1/4 G 1 1/2
- suitable for ATEX



Version	Oil-mist lubricator
Parts	Standard oil-mist lubricator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	0.5 ... 25 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Lubricator reservoir volume	550 cm³
Type of filling	Manual oil filling
Weight	1.5 kg

Technical data

Part No.	Port	Nominal flow Qn	Material Reservoir
R412006579	G 1 1/4	9000 l/min	Die-cast aluminum
R412006580	G 1 1/2	9000 l/min	Die-cast aluminum

Suitable for use in Ex zones 1, 2, 21, 22., Nominal flow with secondary pressure 6.3 bar at Δp = 1 bar

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting via 2 through-holes in housing
Manual oil filling possible during operation.
Suitable for use in Ex zones 1, 2, 21, 22.

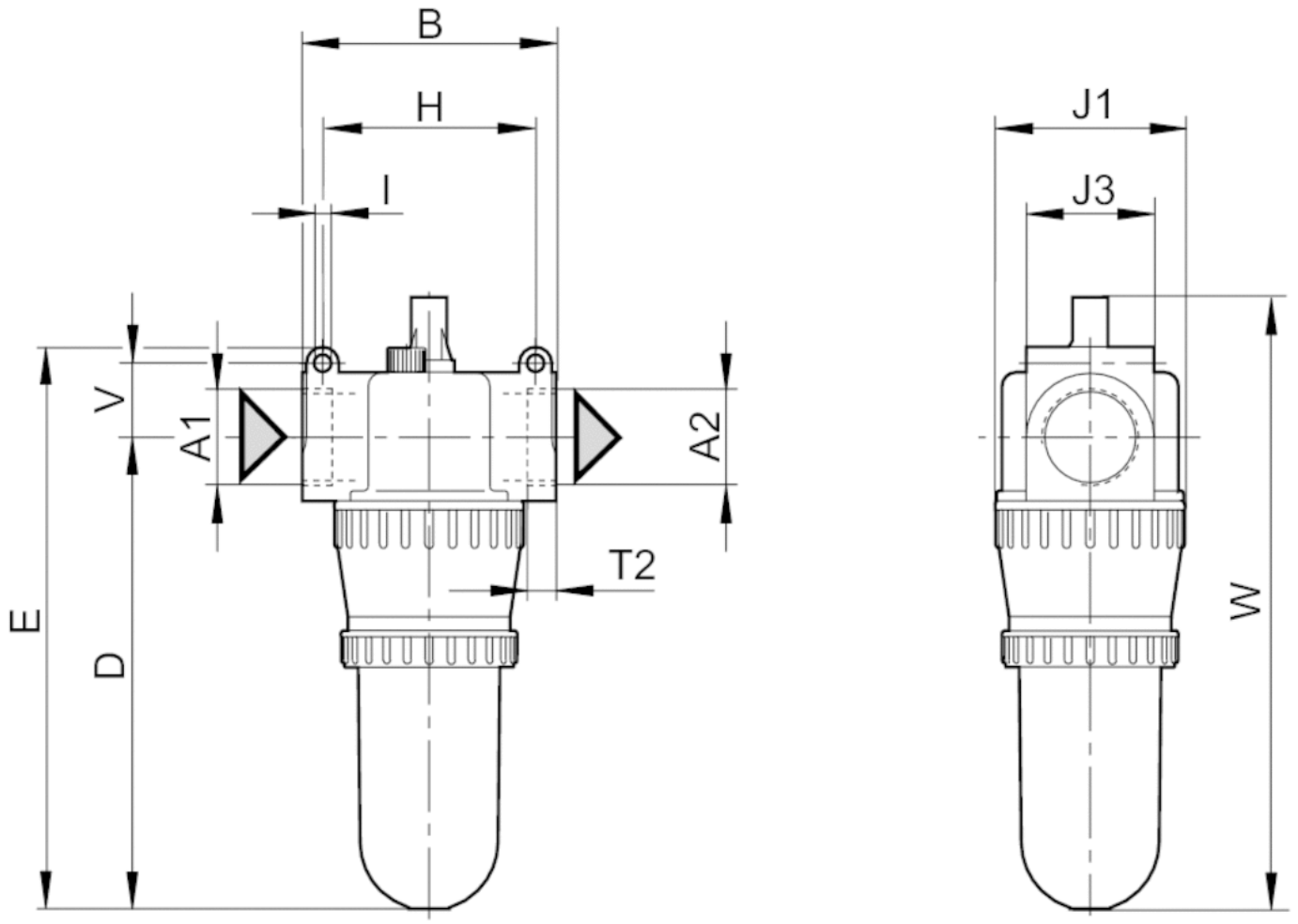
Oil dosing at 1000 l/min 1-2 drops

Technical information

Material	
Housing	Die cast zinc
Seals	Acrylonitrile butadiene rubber
Reservoir	Die-cast aluminum

Dimensions

Dimensions

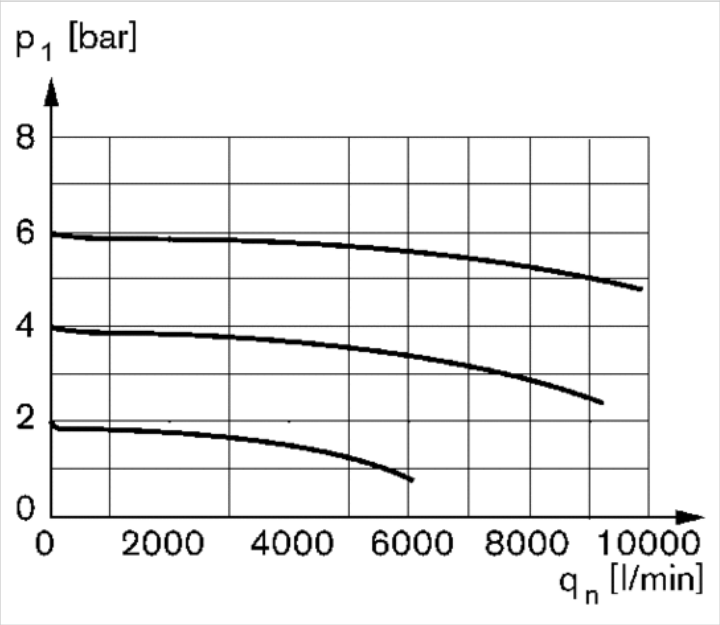


Dimensions

A1	A2	B ±7	D ±7	E ±7	H	I	J1	J3	T2	V ±5	W ±7
G 1 1/4	G1 1/4	125	232.5	278	105	8.5	100	63	25	36.5	301.5
G 1 1/2	G1 1/2	125	232.5	278	105	8.5	100	63	25	36.5	301.5

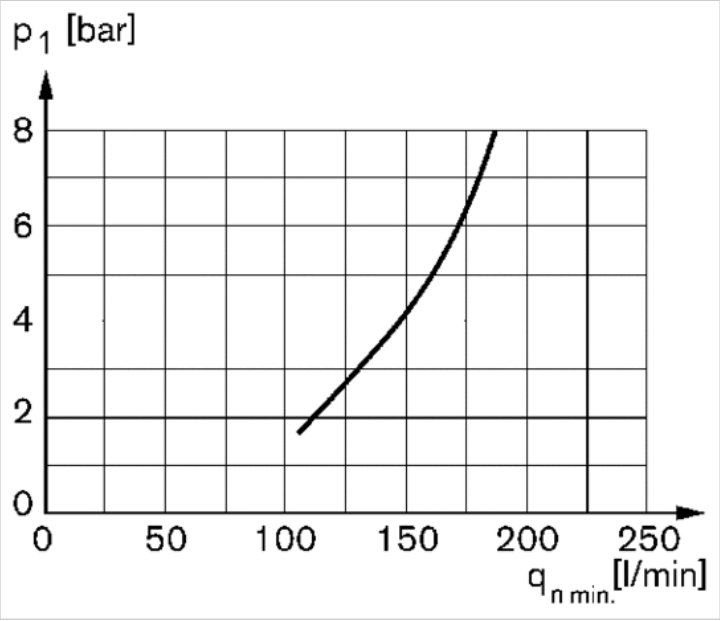
Diagrams

Flow rate characteristic



p1 = working pressure
qn = nominal flow

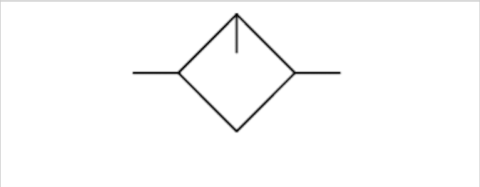
minimum flow rate curve (flow rate necessary for the correct functioning of the lubricator)



p1 = working pressure
qn = nominal flow

Standard oil-mist lubricator, Series MU1-LBS

- G 2
- suitable for ATEX



Version	Oil-mist lubricator
Parts	Standard oil-mist lubricator
Mounting orientation	vertical
Certificates	suitable for ATEX
Compressed air connection	G 2
Working pressure min./max.	0.5 ... 16 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Lubricator reservoir volume	1700 cm³
Type of filling	Manual oil filling
Weight	3.37 kg

Technical data

Part No.	Port	Nominal flow Qn	Material Reservoir	Protective guard
R412006581	G 2	25000 l/min	Polycarbonate	Steel

Suitable for use in Ex zones 1, 2, 21, 22., Nominal flow with secondary pressure 6.3 bar at Δp = 1 bar

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting via 2 through-holes in housing
Manual oil filling possible during operation.
Suitable for use in Ex zones 1, 2, 21, 22.

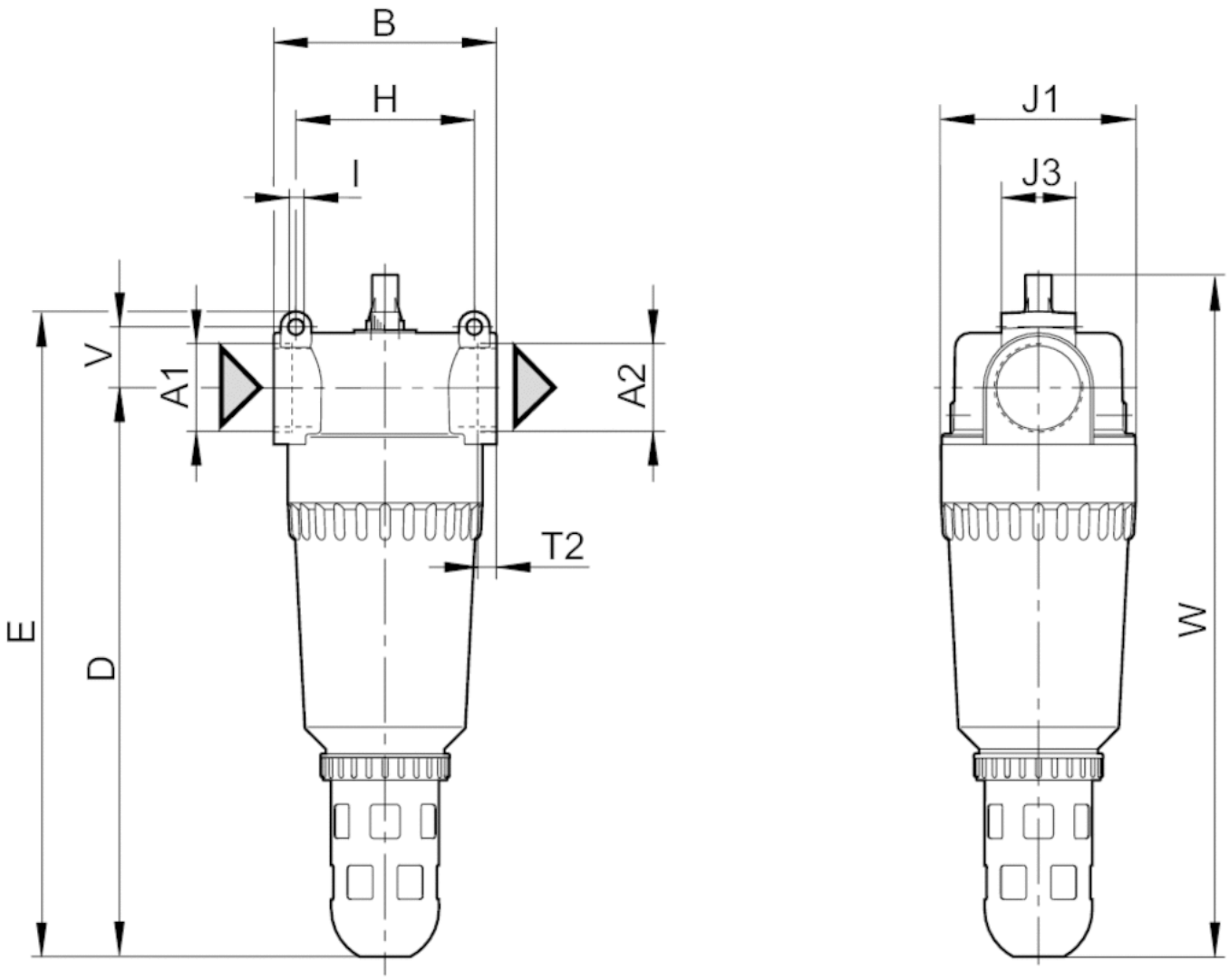
Oil dosing at 1000 l/min 1-2 drops

Technical information

Material	
Housing	Die-cast aluminum
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate
Protective guard	Steel

Dimensions

Dimensions

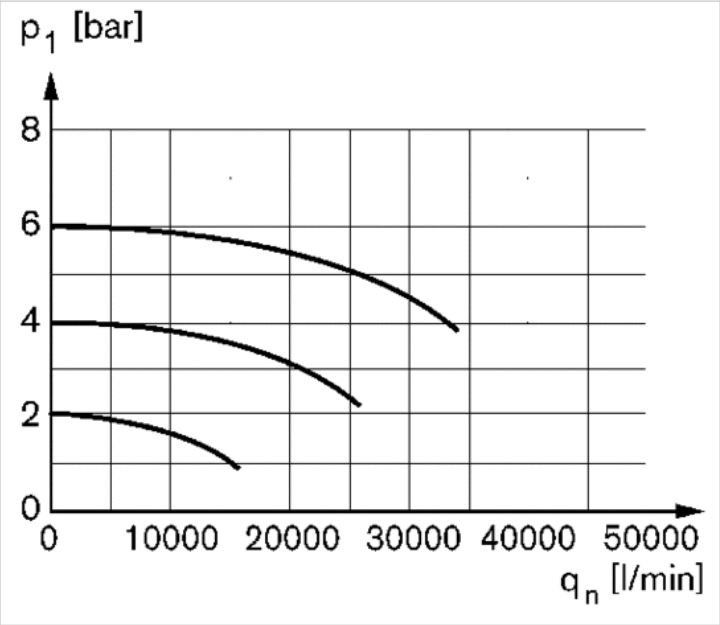


Dimensions

A1	A2	B ±7	D ±7	E ±7	H	I	J1	J3	T2	V ±5	W ±7
G 2	G 2	150	383	436	120	10.5	130	50	24	41	459

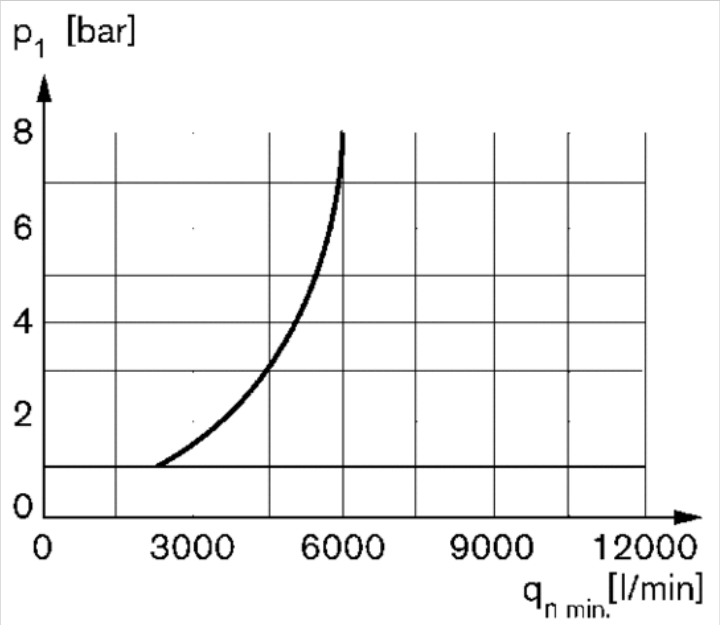
Diagrams

Flow rate characteristic



p1 = working pressure
qn = nominal flow

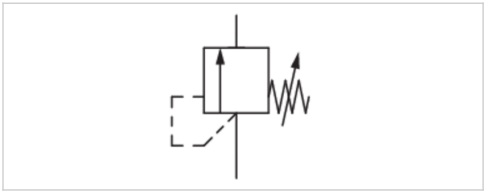
minimum flow rate curve (flow rate necessary for the correct functioning of the lubricator)



p1 = working pressure
qn = nominal flow

Pressure relief valve, Series MU1

- Qn = 300 l/min



Working pressure min./max.	0 ... 10 bar
Adjustment range min./max.	See table below
Medium	Compressed air Neutral gases
Max. particle size	5 µm
Nominal flow Qn	300 l/min
Weight	See table below

Technical data

Part No.	Compressed air connection Input	Compressed air connection Output	Adjustment range min./max.	Weight
0821302043	G 1/8	G 1/8	0.1 ... 2 bar	0.14 kg
0821302044	G 1/8	G 1/8	0.15 ... 3 bar	0.14 kg
0821302045	G 1/8	G 1/8	0.4 ... 6 bar	0.14 kg
0821302046	G 1/4	G 1/4	0.1 ... 2 bar	0.12 kg
0821302031	G 1/4	G 1/4	0.15 ... 3 bar	0.12 kg
0821302047	G 1/4	G 1/4	0.4 ... 6 bar	0.12 kg
R412007723	G 1/4	G 1/4	0.4 ... 10 bar	0.12 kg

Nominal flow with secondary pressure 6.3 bar at Δp = 1 bar

Technical information

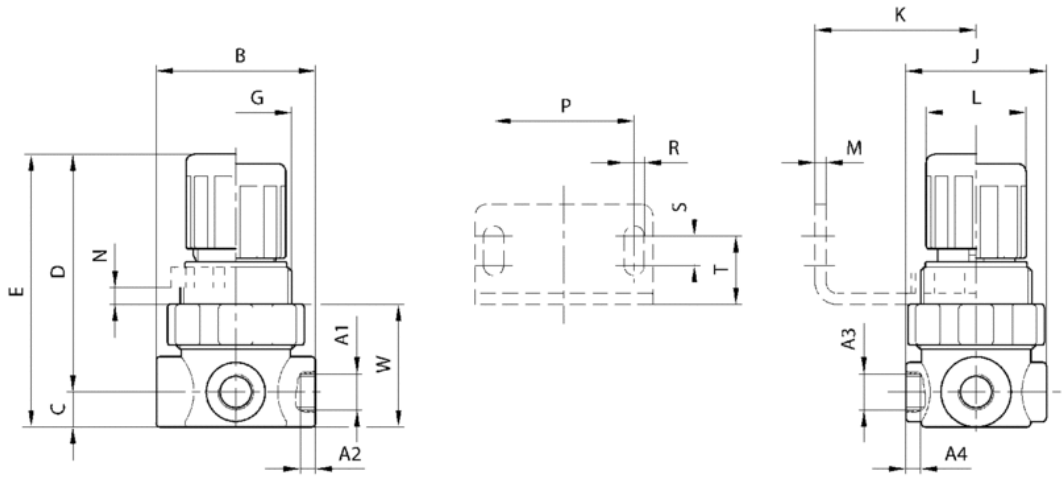
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Mounting with mounting bracket 1821331013
panel installation

Technical information

Material	
Housing	Die cast zinc

Dimensions

Dimensions

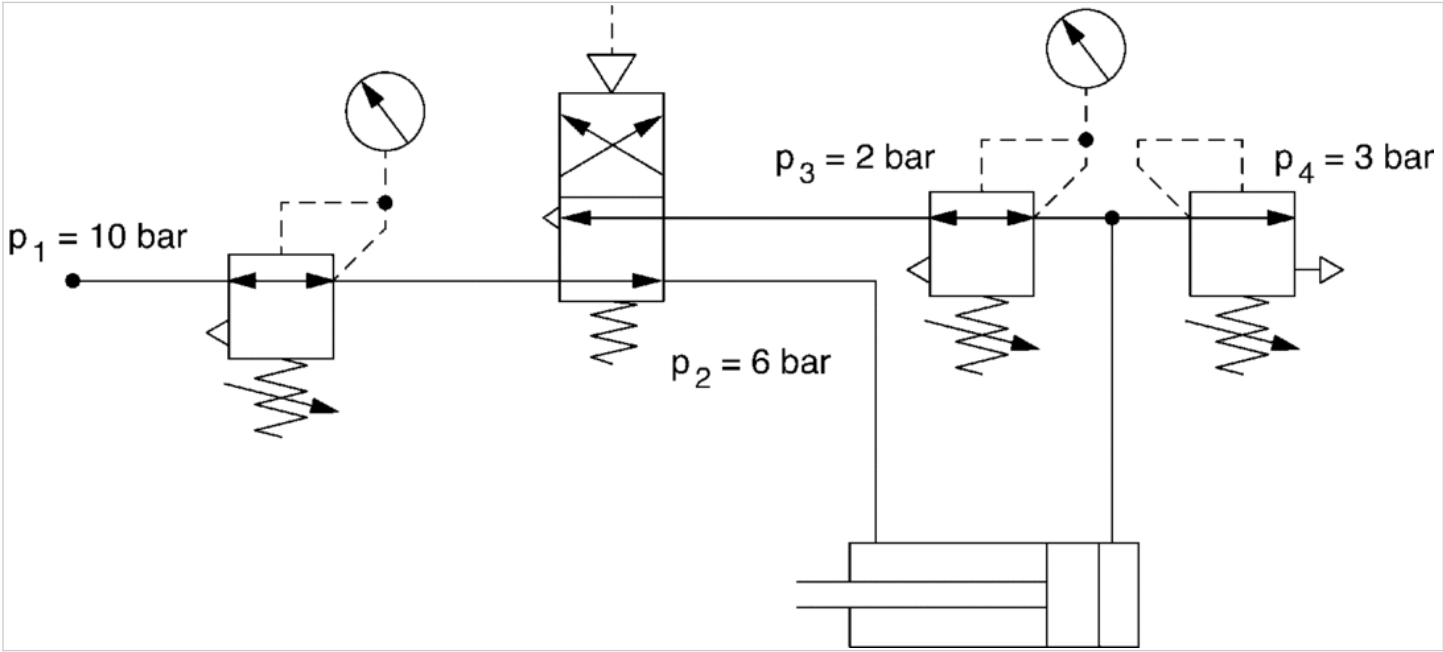


Dimensions

A1	A2	A3	A4	B	C	D	E	G	J	K	L	M	N	P	R	S	T	W
G1/8	8	G1/8	8	43	9.5	61	70.5	M30x1.5	38	40	27	3	5	38	5.4	8	18.5	33
G1/4	8	G1/8	8	43	9.5	61	70.5	M30x1.5	38	40	27	3	5	38	5.4	8	18.5	33

Circuit diagram

Application example



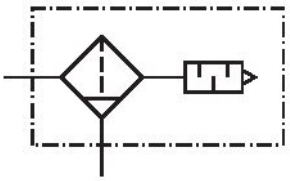
adjustable opening pressure

Oil separator, Series MU1

R412028128

General series information
Series MU1

- 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

Parts
Oil separator

Compressed air connection
G 1/2

Nominal flow Qn
9000 l/min

Working pressure min.
0 bar

Working pressure max
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
120 °C

Medium
Compressed air
Neutral gases

max. residual oil content at the outlet
0.01 mg/m³

Function
filter silencer

Weight
0.46 kg

Material

Housing material
Aluminum

Material reservoir
Polypropylene

Part No.
R412028128

Technical information

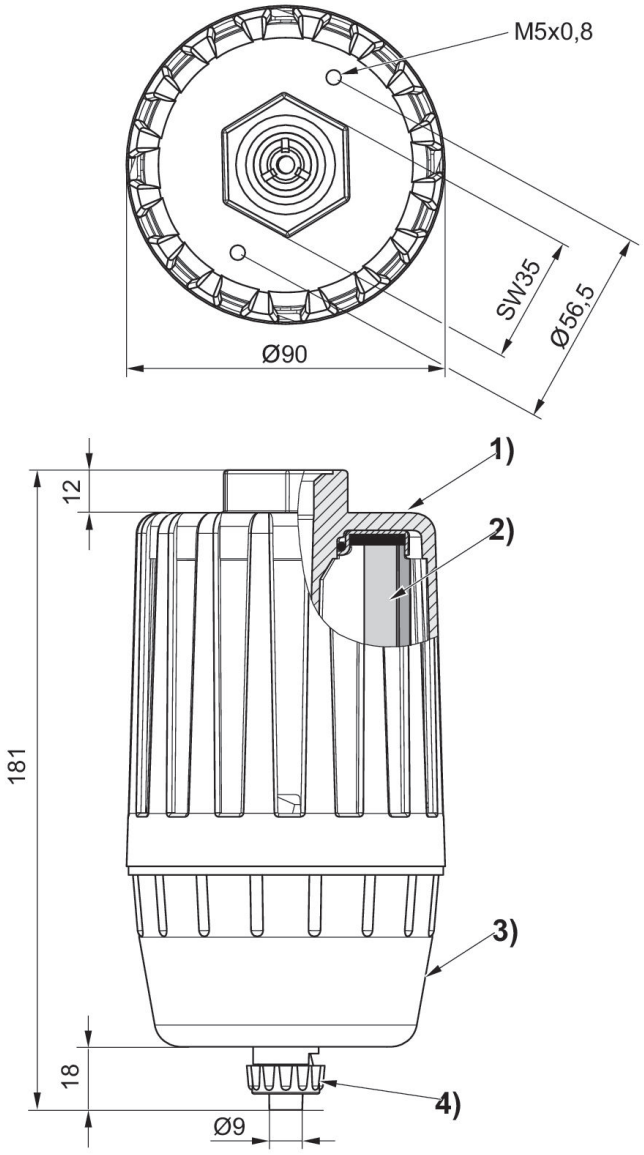
Mounting with mounting bracket R412028134

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

The oil content of compressed air must remain constant during the life cycle.

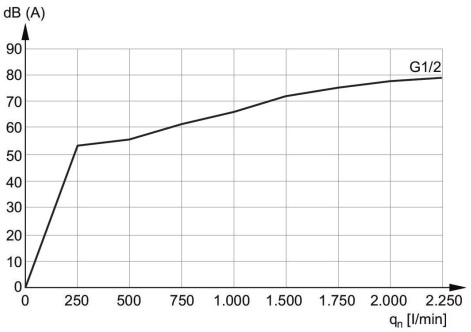
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm



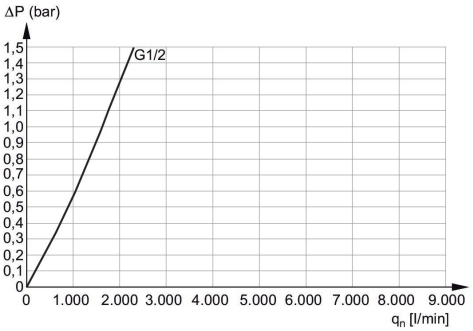
1) Housing
2) microfilter element
3) PC reservoir
4) Drain valve

noise emission



qn = Nominal flow

Flow rate characteristic, p2 = 0,05 - 7 bar



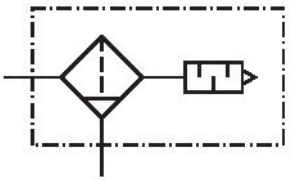
qn = Nominal flow

Oil separator, Series MU1

R412028129

General series information
Series MU1

- 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

Parts
Oil separator

Compressed air connection
G 3/4

Nominal flow Qn
12000 l/min

Working pressure min.
0 bar

Working pressure max
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
120 °C

Medium
Compressed air
Neutral gases

max. residual oil content at the outlet
0.01 mg/m³

Function
filter silencer

Weight
0.48 kg

Material

Housing material
Aluminum

Material reservoir
Polypropylene

Part No.
R412028129

Technical information

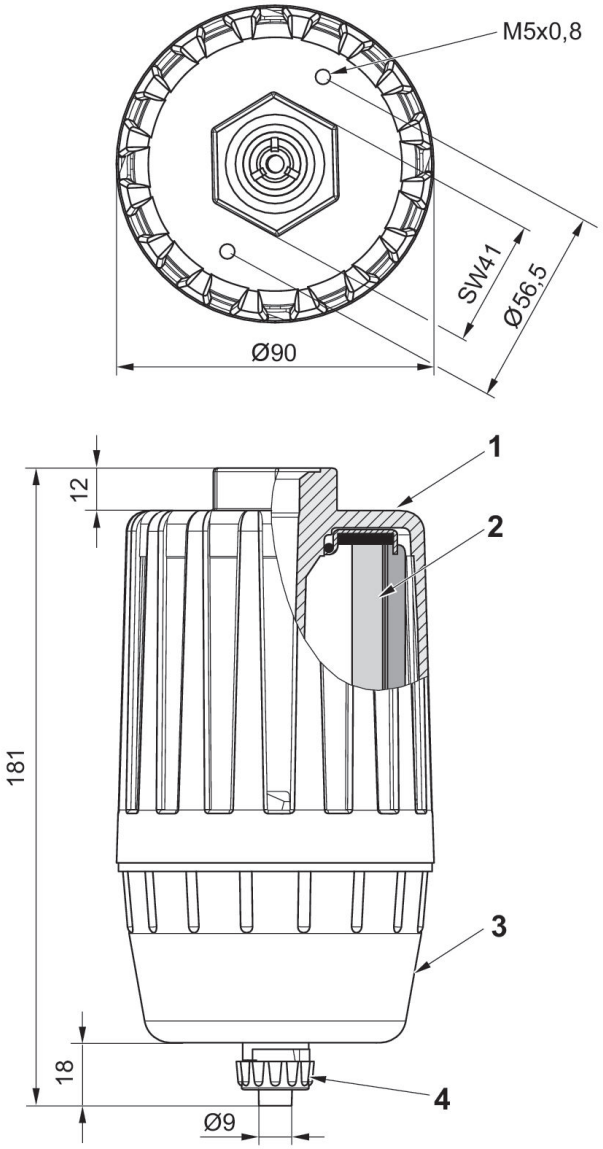
Mounting with mounting bracket R412028148

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

The oil content of compressed air must remain constant during the life cycle.

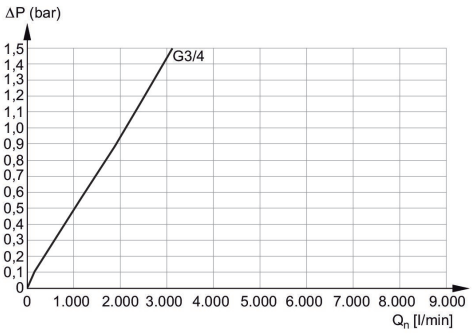
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm



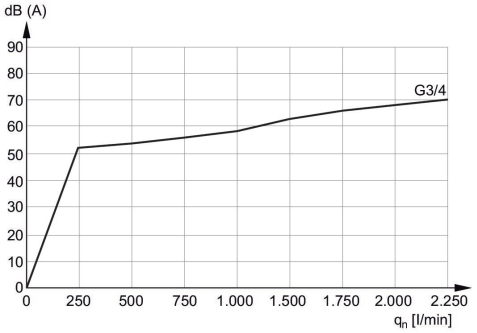
1) Housing
2) microfilter element
3) PC reservoir
4) Drain valve

Flow rate characteristic, p2 = 0,05 - 7 bar



qn = Nominal flow

noise emission



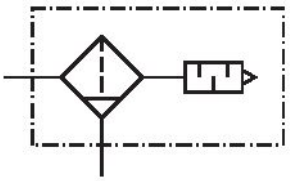
qn = Nominal flow

Oil separator, Series MU1

R412028130

General series information
Series MU1

- 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

Parts
Oil separator

Compressed air connection
G 1

Nominal flow Qn
32000 l/min

Working pressure min.
0 bar

Working pressure max
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
120 °C

Medium
Compressed air
Neutral gases

max. residual oil content at the outlet
0.01 mg/m³

Function
filter silencer

Weight
0.88 kg

Material

Housing material
Aluminum

Material reservoir
Polypropylene

Part No.
R412028130

Technical information

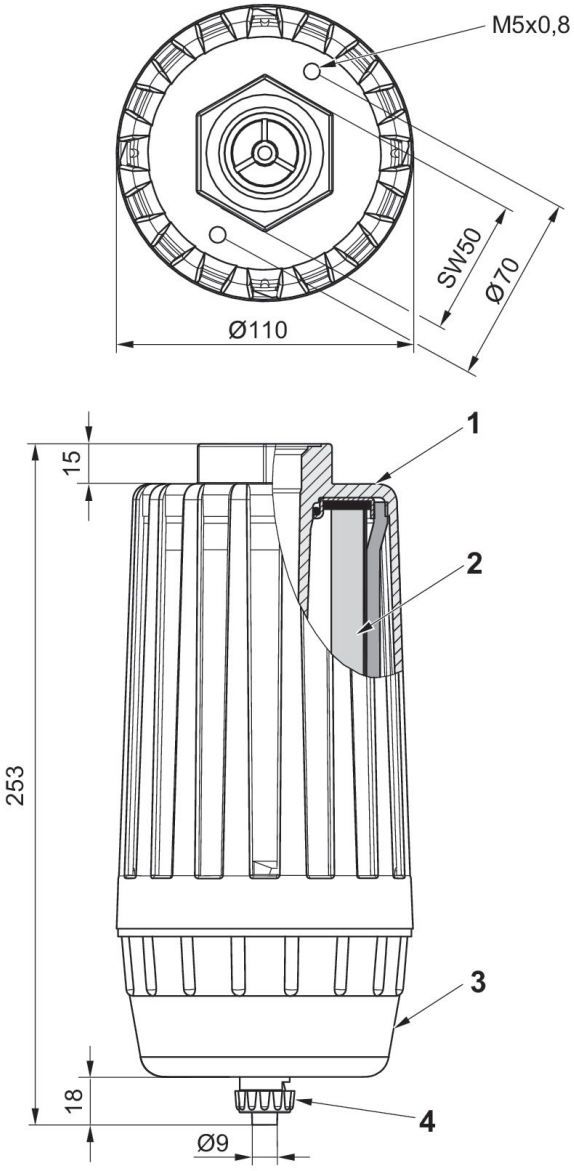
Mounting with mounting bracket R412028149

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

The oil content of compressed air must remain constant during the life cycle.

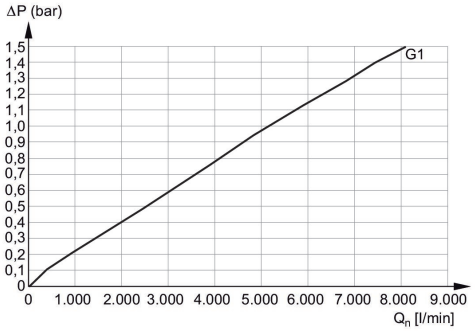
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm



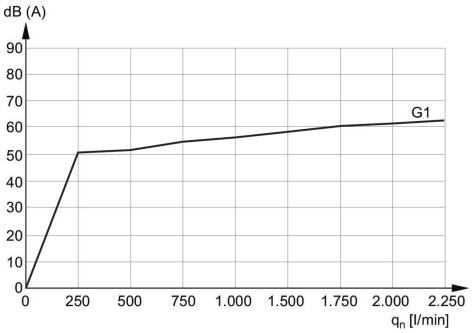
1) Housing
2) microfilter element
3) PC reservoir
4) Drain valve

Flow rate characteristic, p2 = 0,05 - 7 bar



qn = Nominal flow

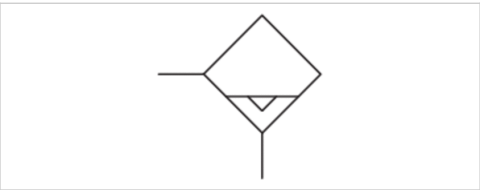
noise emission



qn = Nominal flow

Condensate separator, Series MU1

- G 1/2
- Material Polycarbonate
- suitable for ATEX



Parts	Condensate separator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	2 ... 16 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air Neutral gases
Filter reservoir volume	49 cm³
Weight	0.185 kg

Technical data

Part No.	Condensate drain	Protective guard	Fig.
R412010688	semi-automatic, open without pressure	Polyamide	Fig. 1
R412010689	fully automatic, open without pressure	Polyamide	Fig. 2
R412010690	fully automatic, closed without pressure	Polyamide	Fig. 2

Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

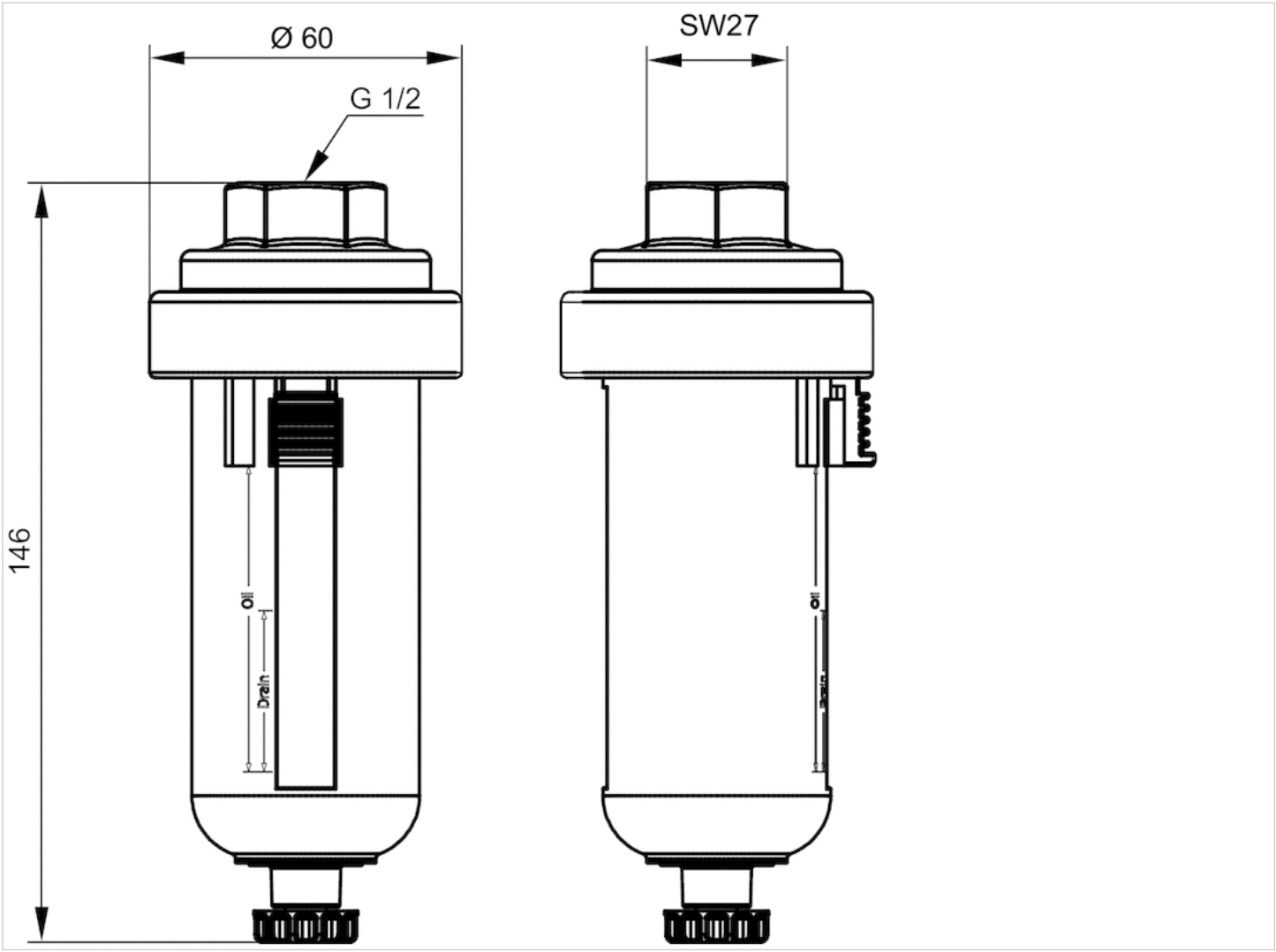
To discharge condensate and oil from the compressed air network
Ideally installed at the lowest point of the compressed air network
Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

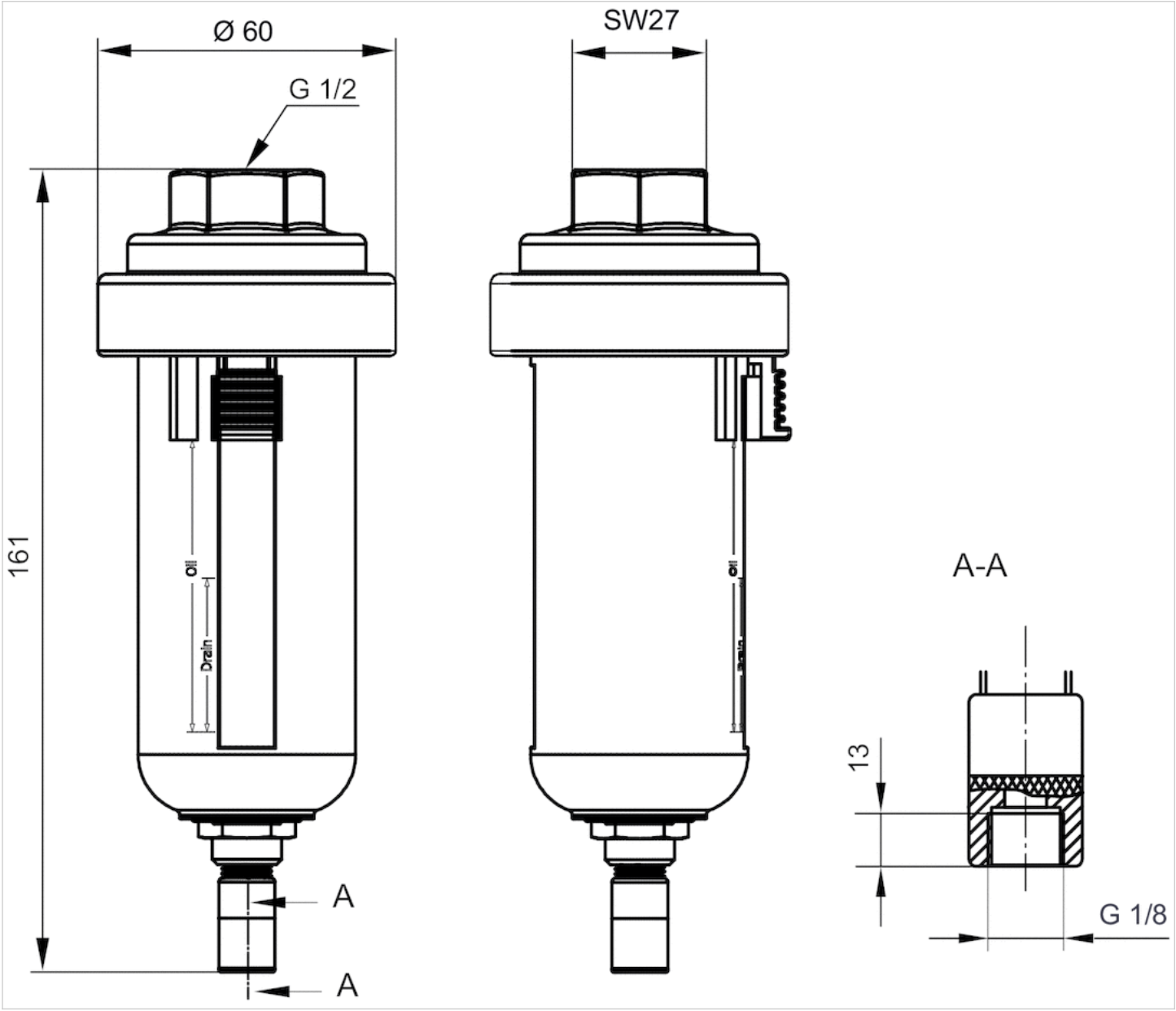
Material	
Reservoir	Polycarbonate
Protective guard	Polyamide
Seal	Nitrile butadiene rubber

Dimensions

Dimensions, Fig. 1



Dimensions, Fig. 2



Reservoir

- Material metal Polycarbonate

Version	Reservoir
Certificates	suitable for ATEX
Working pressure min./max.	16 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Weight	See table below

Technical data

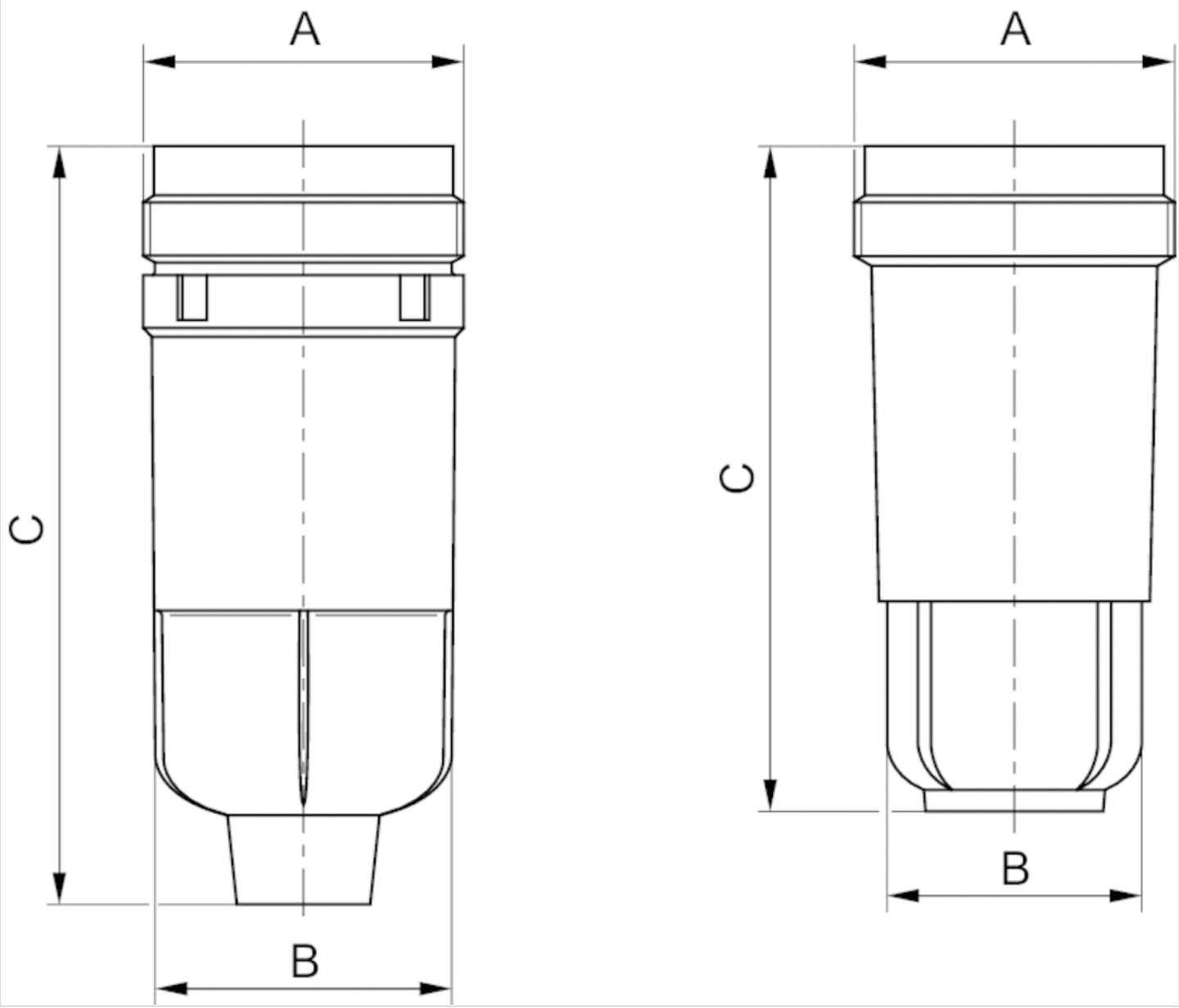
Part No.	Reservoir	Filter reservoir volume	Weight
R412004881	metal	550 cm³	0.33 kg
R412004882	Polycarbonate	1700 cm³	0.24 kg

Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

Material	
Reservoir	metal Polycarbonate
Seal	Acrylonitrile butadiene rubber

Dimensions



Dimensions

Part No.	A	B	C
R412004881	M36x1,5	34	85
R412004882	M36x1,5	33.5	71.5

Reservoir, Series MU1

- for MU1
- Material metal Polycarbonate

Version	Reservoir
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Filter reservoir volume	300 cm³
Weight	See table below

Technical data

Part No.	Condensate drain	Reservoir	ATEX
R412004876	Manual	metal	-
R412004877	semi-automatic, open without pressure	Polycarbonate	suitable for ATEX
R412004875	fully automatic, open without pressure	metal	suitable for ATEX

Part No.	Weight	Fig.	
R412004876	0.34 kg	Fig. 1	-
R412004877	0.25 kg	Fig. 2	1)
R412004875	0.395 kg	Fig. 3	1)

1) Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

Material	
Reservoir	metal Polycarbonate
Seal	Acrylonitrile butadiene rubber

Dimensions

Fig. 1

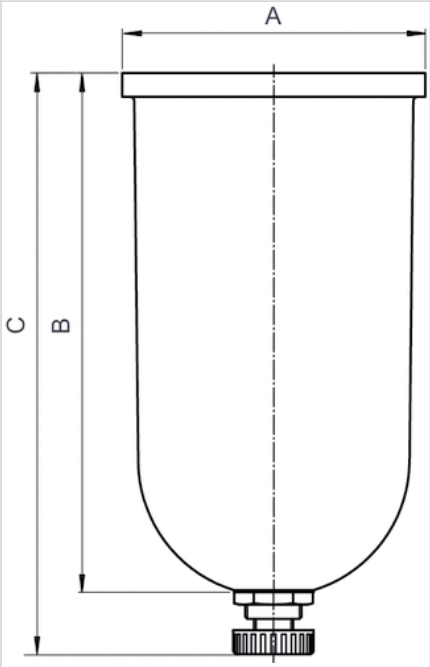


Fig. 2

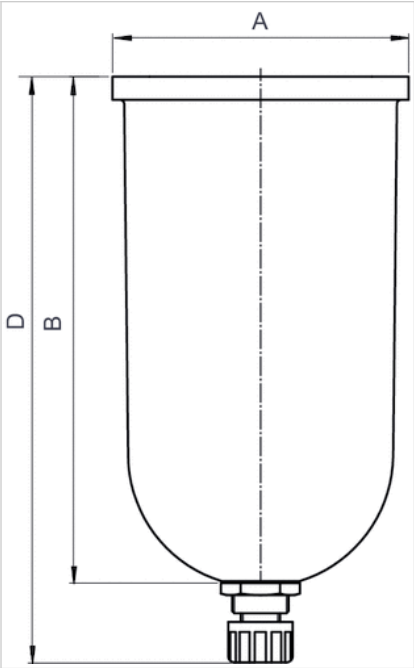
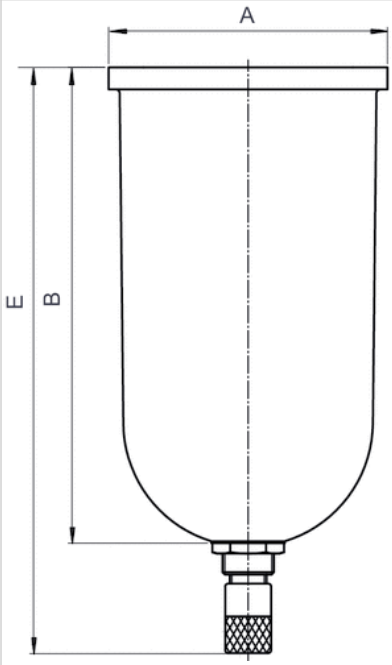


Fig. 3



Dimensions

Part No.	ØA	B	C	D
R412004876	76	130	-	149.7
R412004877	76	130	145.3	-
R412004875	76	130	-	160

Protective guard for filter and lubricator

Weight 0.14 kg

Technical data

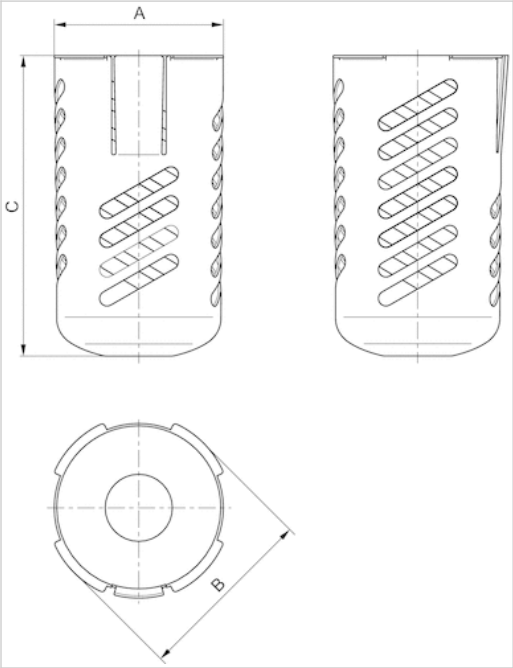
Part No.	Type
R412004879	MU1

Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

Material	
Material	Steel black oxidized

Dimensions



Dimensions

Part No.	Type	A	B	C
R412004879	MU1	38	43	86

Mounting bracket, Series MU1-MBR-...-W02

- for MU1
- oil separator G 1/2, G 3/4, G 1

Weight 0.104 kg

Technical data

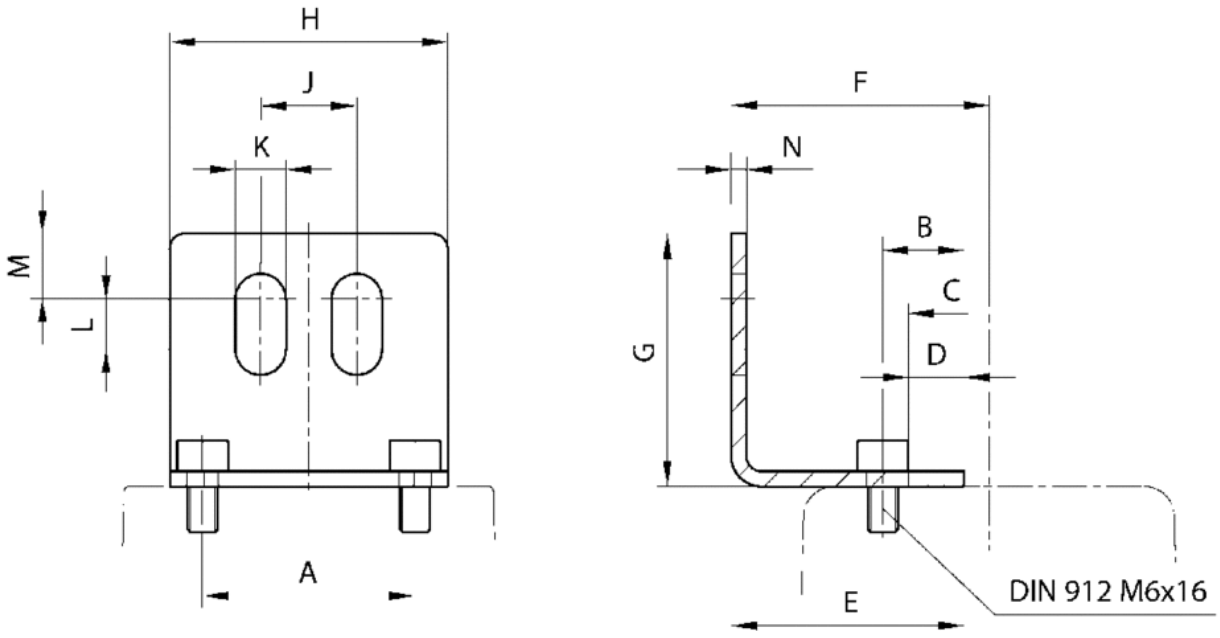
Part No.	for
1821336021	MU1

Technical information

Material	
Housing	Steel, galvanized

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N
1821336021	42	21	25	11	46	51	50	55	19	10	10	13	3

Mounting bracket, Series MU1/PR1-MBR-...-W02

- for MU1, PR1

Ambient temperature min./max. -40 ... 60 °C

Technical data

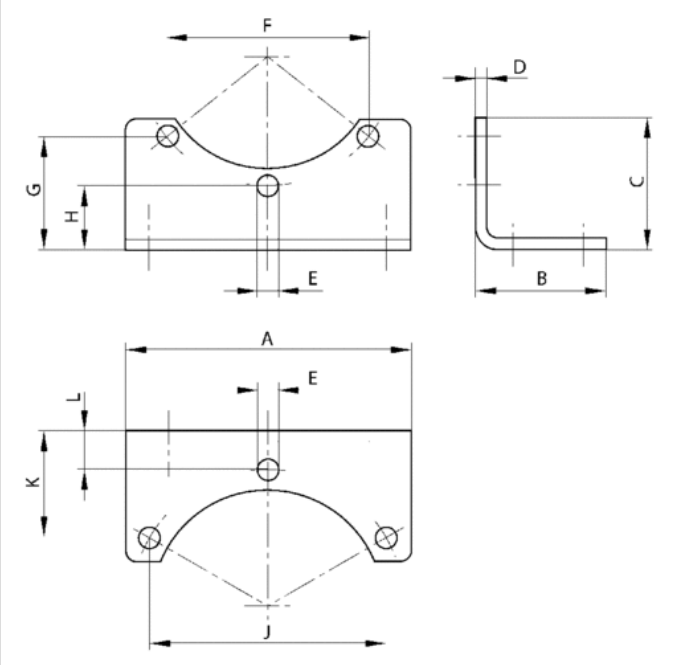
Part No.	for
R412004872	MU1, PR1

Technical information

Material	
Housing	Steel, galvanized

Dimensions

Dimensions



Dimensions

Part No.		A	B	C	D	E	F	G	H	J	K	L
R412004872	G1	76	35	35	3	5.5	53.6	30.1	17	63.2	28.8	10.5

Mounting bracket, Series MU1-MBR-...-W02

- for MU1

Ambient temperature min./max. -40 ... 60 °C

Technical data

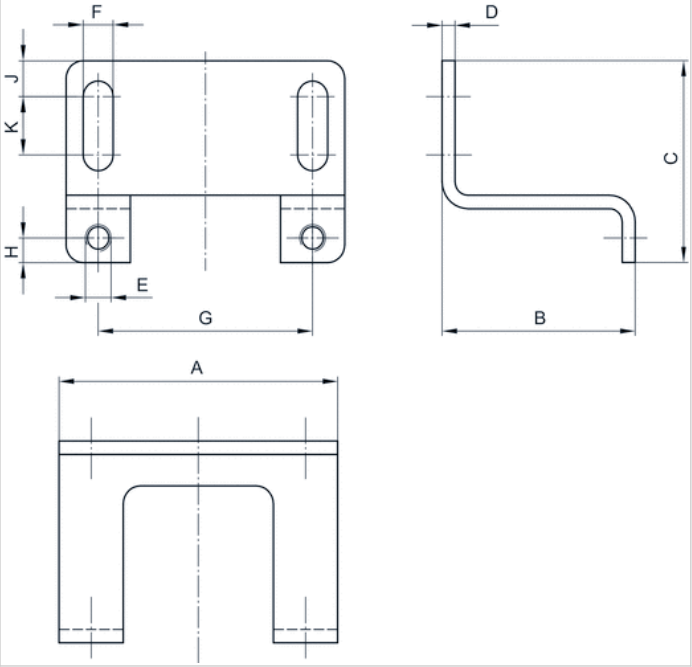
Part No.	for
R412004874	MU1

Technical information

Material	
Housing	Steel, galvanized

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	D	E	F	G	H	J	K
R412004874	65	45	45	3	M6	7	50	5.5	8	13

Mounting bracket, Series MU1-MBR-...-W02

- for MU1

Ambient temperature min./max. -40 ... 60 °C

Technical data

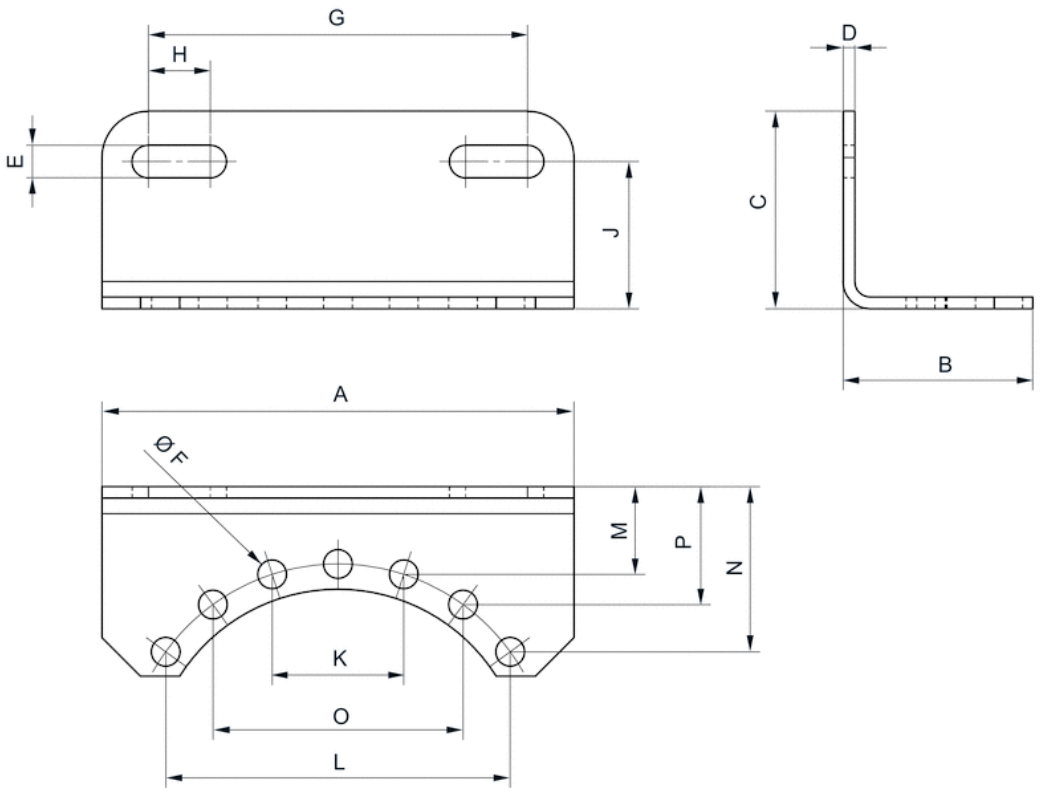
Part No.	for
R412004873	MU1

Technical information

Material	
Housing	Steel, galvanized

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
R412004873	124	49	51	3	8,4	7,4	98	16	38	34	89	22,9	42,7	64,7	30,5

Mounting bracket, Series NL1/NL2-MBR-...-W02

Ambient temperature min./max.	-40 ... 60 °C
Weight	0.065 kg

Technical data

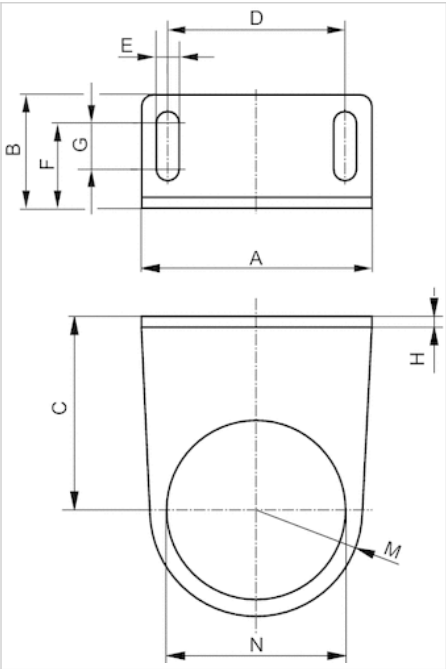
Part No.
1821331013

Technical information

Material	
Housing	Steel, galvanized

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	D	E	F	G	H	M	N
1821331013	48	27	43.5	38	5.4	18.5	8	3	20	30.5

plugs

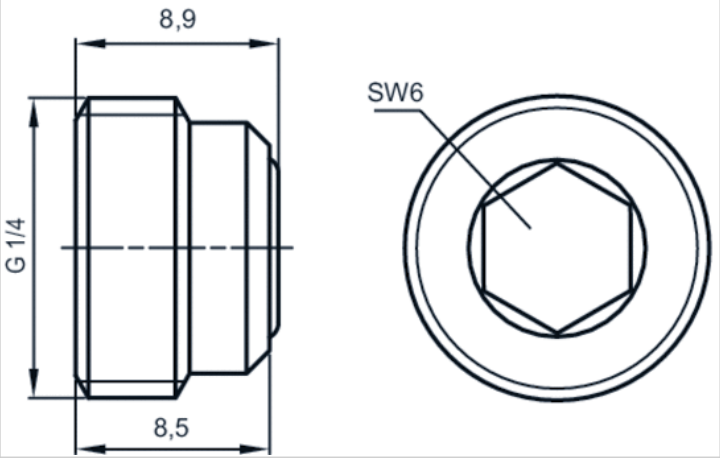
Technical data

Part No.	Type	Suitable for	Delivery unit
R412010124	plugs	Pressure gauge connection: G 1/4	10 piece

Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber

Dimensions



Panel nut, Series AS-MBR-...-W06

- M30x1,5
- for AS1, NL1, NL2, MU1, PR2

Weight 0.013 kg

The delivered product may vary from that in the illustration.

Technical data

Part No.	Port	for	Scope of delivery
1829234070	M30x1,5	AS1, NL1, NL2, MU1, PR2	5 piece

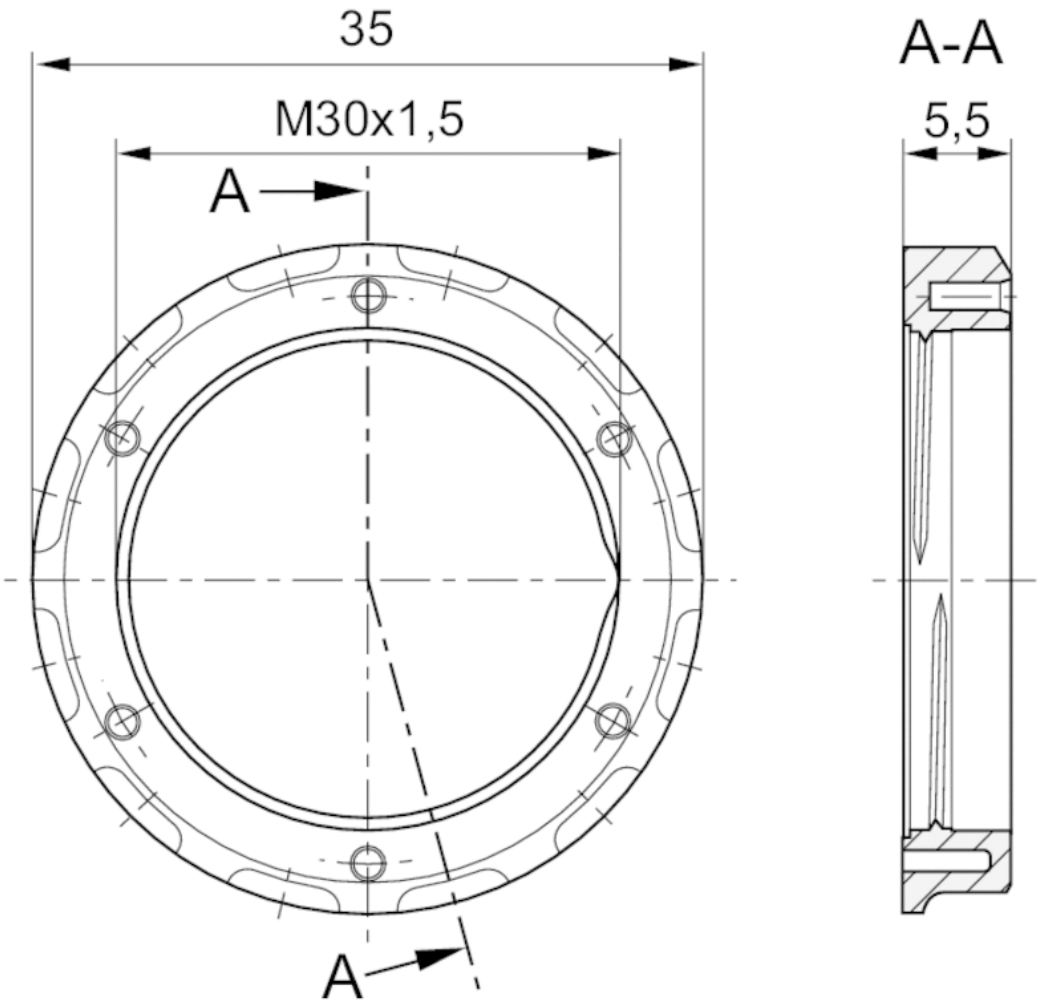
Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

Material	
Housing	Brass

Dimensions

Dimensions in mm



Pressure gauge, Series PG1-SAS

- Back port
- Background color Black
- Scale color White, Grey
- Viewing window Polystyrene
- Units bar
- Units psi

Version	Bourdon tube pressure gauge
Standardization	EN 837-1
Class	2,5
Ambient temperature min./max.	-40 ... 60 °C
Medium	Compressed air
Main scale unit (outside)	bar
Main scale color (outside)	White
Secondary scale unit (inside)	psi
Secondary scale color (inside)	Grey
Background color	Black
Pointer color	White
Weight	See table below

Technical data

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
R412003853	G 1/8	40 mm	0 bar ... 1.2	0 bar ... 1.6	0 ... 1.6 bar	0.05
R412003854	G 1/8	40 mm	0 bar ... 2	0 bar ... 2.5	0 ... 2.5 bar	0.1
R412003855	G 1/8	40 mm	0 bar ... 3.2	0 bar ... 4	0 ... 4 bar	0.1
R412003856	G 1/8	40 mm	0 bar ... 4	0 bar ... 6	0 ... 6 bar	0.2
R412003857	G 1/8	40 mm	0 bar ... 8	0 bar ... 10	0 ... 10 bar	0.2
R412003858	G 1/8	40 mm	0 bar ... 12	0 bar ... 16	0 ... 16 bar	0.5
R412004407	G 1/4	40 mm	0 bar ... 1.2	0 bar ... 1.6	0 ... 1.6 bar	0.05
R412004408	G 1/4	40 mm	0 bar ... 2	0 bar ... 2.5	0 ... 2.5 bar	0.1
R412004409	G 1/4	40 mm	0 bar ... 3.2	0 bar ... 4	0 ... 4 bar	0.1
R412004410	G 1/4	40 mm	0 bar ... 4	0 bar ... 6	0 ... 6 bar	0.2
R412004411	G 1/4	40 mm	0 bar ... 8	0 bar ... 10	0 ... 10 bar	0.2
R412004412	G 1/4	40 mm	0 bar ... 12	0 bar ... 16	0 ... 16 bar	0.5
R412004413	G 1/4	50 mm	0 bar ... 1.2	0 bar ... 1.6	0 ... 1.6 bar	0.05
R412004414	G 1/4	50 mm	0 bar ... 2	0 bar ... 2.5	0 ... 2.5 bar	0.1
R412004415	G 1/4	50 mm	0 bar ... 3.2	0 bar ... 4	0 ... 4 bar	0.1
R412004416	G 1/4	50 mm	0 bar ... 4	0 bar ... 6	0 ... 6 bar	0.2
R412004417	G 1/4	50 mm	0 bar ... 8 bar	0 bar ... 10 bar	0 ... 10 bar	0.2
R412004418	G 1/4	50 mm	0 bar ... 12	0 bar ... 16	0 ... 16 bar	0.5
R412007898	G 1/4	50 mm	0 bar ... 20	0 bar ... 25	0 ... 25 bar	1

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
R412004419	G 1/4	63 mm	0 bar ... 1.2	0 bar ... 1.6	0 ... 1.6 bar	0.05
R412004420	G 1/4	63 mm	0 bar ... 2	0 bar ... 2.5	0 ... 2.5 bar	0.1
R412004421	G 1/4	63 mm	0 bar ... 3.2	0 bar ... 4	0 ... 4 bar	0.1
R412004422	G 1/4	63 mm	0 bar ... 4	0 bar ... 6	0 ... 6 bar	0.2
R412004423	G 1/4	63 mm	0 bar ... 8	0 bar ... 10	0 ... 10 bar	0.2
R412004424	G 1/4	63 mm	0 bar ... 12	0 bar ... 16	0 ... 16 bar	0.5

Part No.	Weight	Fig.	
R412003853	0.08 kg	Fig. 4	-
R412003854	0.08 kg	Fig. 4	-
R412003855	0.08 kg	Fig. 4	-
R412003856	0.08 kg	Fig. 4	-
R412003857	0.08 kg	Fig. 4	-
R412003858	0.08 kg	Fig. 4	-
R412004407	0.08 kg	Fig. 1	-
R412004408	0.08 kg	Fig. 1	-
R412004409	0.08 kg	Fig. 1	-
R412004410	0.08 kg	Fig. 1	-
R412004411	0.08 kg	Fig. 1	-
R412004412	0.08 kg	Fig. 1	-
R412004413	0.09 kg	Fig. 2	-
R412004414	0.09 kg	Fig. 2	-
R412004415	0.09 kg	Fig. 2	-
R412004416	0.09 kg	Fig. 2	-
R412004417	0.09 kg	Fig. 2	1)
R412004418	0.09 kg	Fig. 2	1)
R412007898	0.09 kg	Fig. 2	-
R412004419	0.1 kg	Fig. 3	-
R412004420	0.1 kg	Fig. 3	-
R412004421	0.1 kg	Fig. 3	-
R412004422	0.1 kg	Fig. 3	-
R412004423	0.1 kg	Fig. 3	-
R412004424	0.1 kg	Fig. 3	-

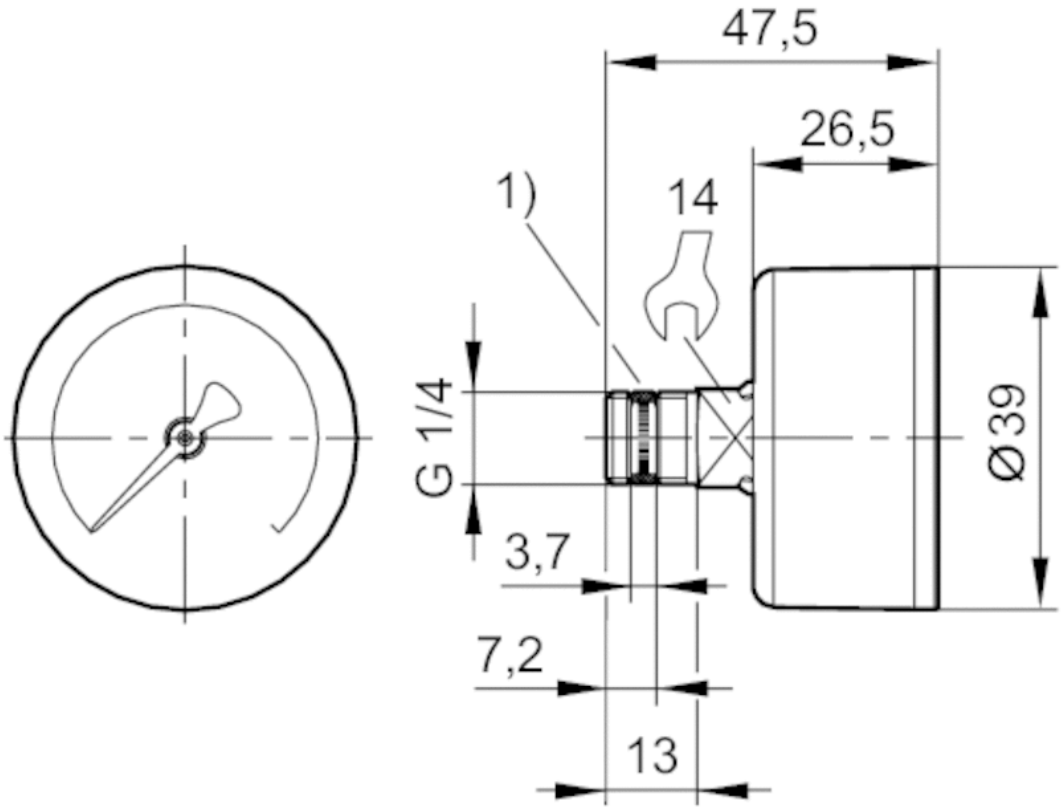
1) Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

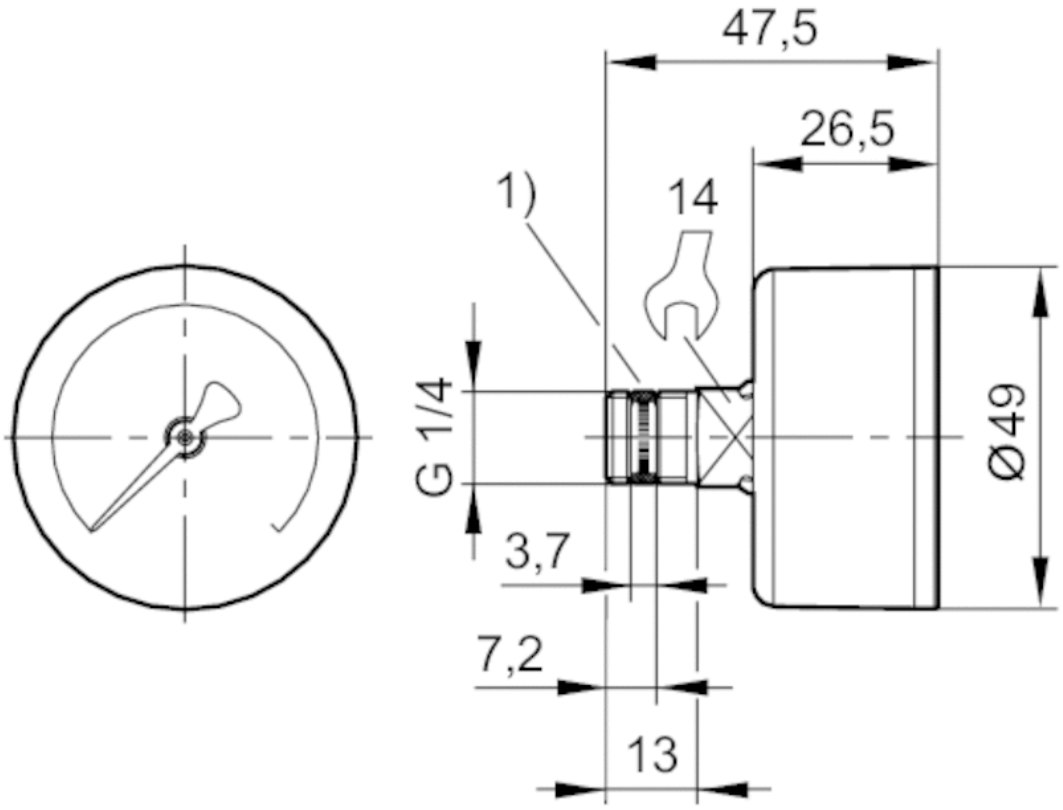
Dimensions

Dimensions in mm, Fig. 1



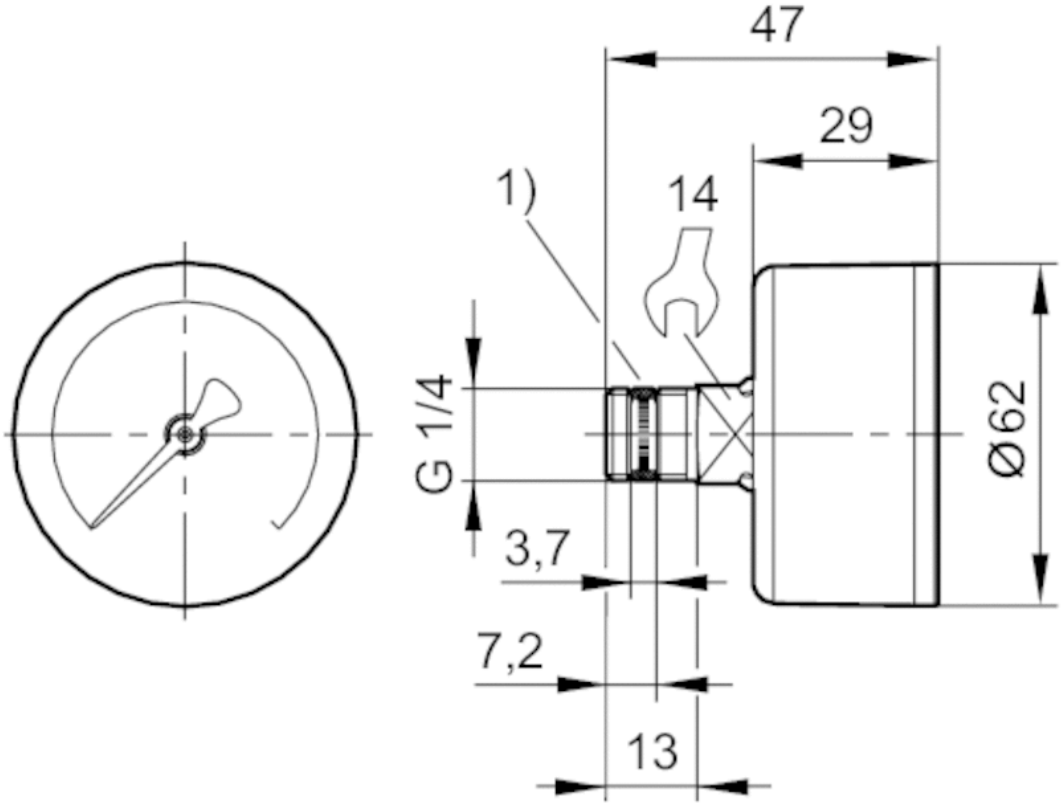
1) Gasket thread

Dimensions in mm, Fig. 2



1) Gasket thread

Dimensions in mm, Fig. 3



1) Gasket thread

Pressure gauge, Series PG1-SAS-ADJ

- Back port
- with adjustable work area display
- Background color Black
- Scale color White, Grey
- Viewing window Polystyrene
- Units bar
- Units psi

Version	Bourdon tube pressure gauge
Version	with adjustable work area display
Standardization	EN 837-1
Class	2,5
Ambient temperature min./max.	-40 ... 60 °C
Medium	Compressed air
Work area	adjustable work area display
Work Area Display, Color	Red Green
Main scale unit (outside)	bar
Main scale color (outside)	White
Secondary scale unit (inside)	psi
Secondary scale color (inside)	Grey
Background color	Black
Pointer color	White
Weight	0.1 kg

Technical data

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
R412007867	G 1/4	50 mm	0 bar ... 1.2	0 bar ... 1.6	0 ... 1.6 bar	0.05
R412007868	G 1/4	50 mm	0 bar ... 2	0 bar ... 2.5	0 ... 2.5 bar	0.1
R412007869	G 1/4	50 mm	0 bar ... 3.2	0 bar ... 4	0 ... 4 bar	0.1
R412007870	G 1/4	50 mm	0 bar ... 4	0 bar ... 6	0 ... 6 bar	0.2
R412007871	G 1/4	50 mm	0 bar ... 8	0 bar ... 10	0 ... 10 bar	0.2
R412007872	G 1/4	50 mm	0 bar ... 12	0 bar ... 16	0 ... 16 bar	0.5

Technical information

To set the operating range, the cover (inspection glass) must be removed. To do this, carefully lift the inspection glass by inserting a pointed or flat object in the slot provided for this purpose on the housing circumference.

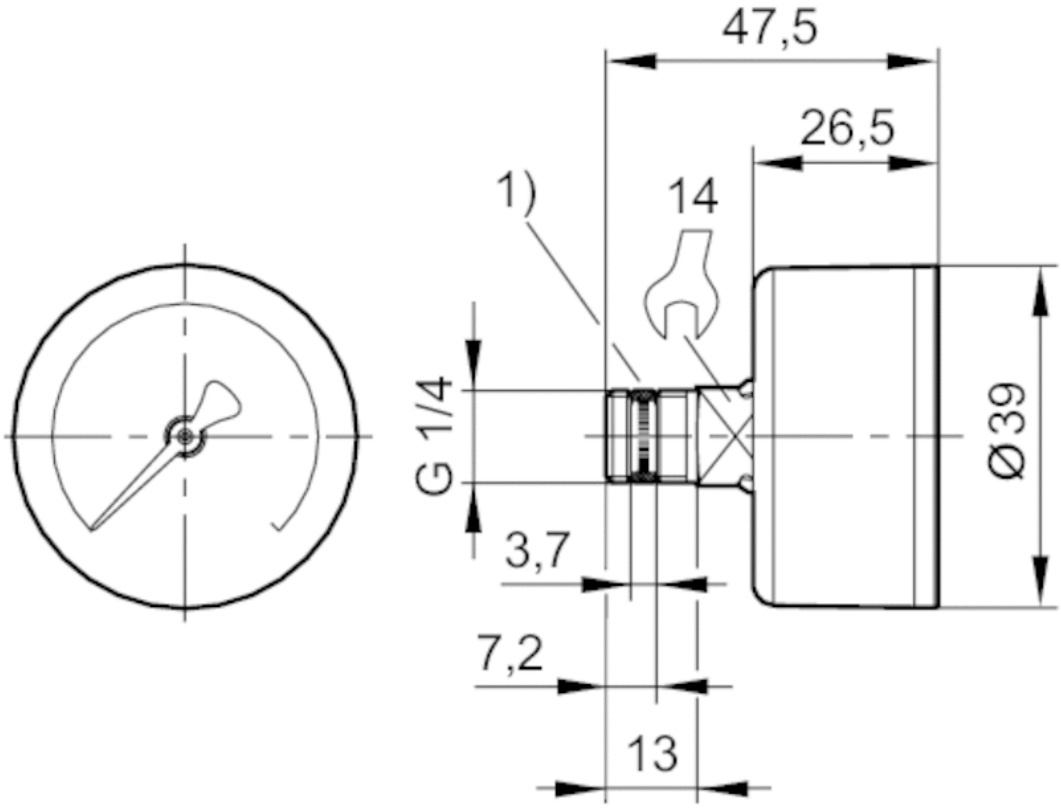
Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass

Material	
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

Dimensions

Dimensions in mm, Fig. 1



1) Gasket thread

Dimensions in mm

Compressed air connection	Nominal diameter	Ø A	B	C	D	E	F	SW
G 1/4	50 mm	49	47.5	26.5	13	7.2	3.7	14

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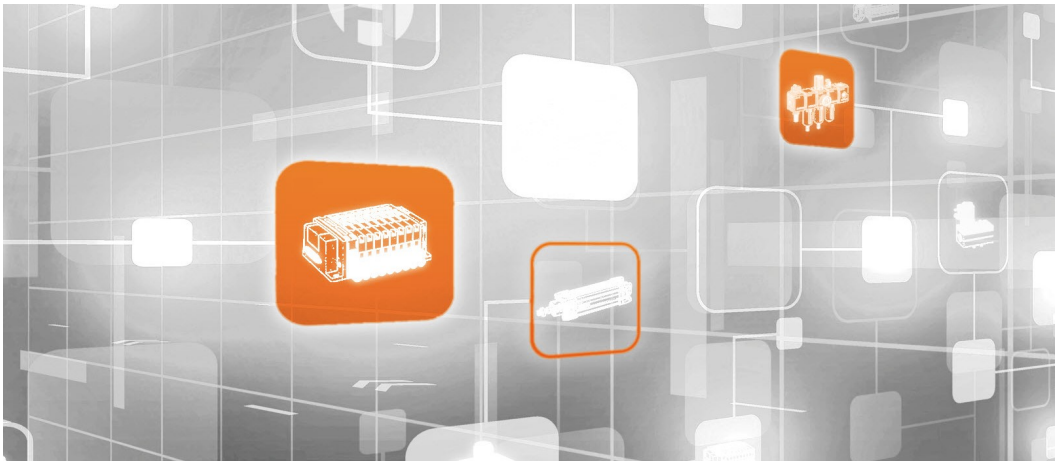

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