

# Series PR1



AVENTICS™ Series PR1

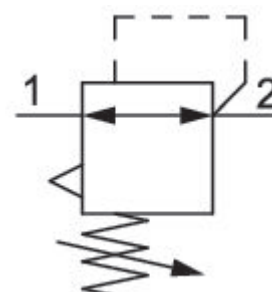


# Precision pressure regulator, Series PR1- RGP

R412010259

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 1/4

Qn =  
480 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.1 bar

Regulation range max.  
1 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-10 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

Version  
Regulator without pressure gauge

Regulator function  
with relieving air exhaust

Pressure supply  
single

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5 µm

Weight  
1.02 kg

## Material

Housing material  
Die cast zinc

Seal material  
Acrylonitrile butadiene rubber

Part No.  
R412010259

## Technical information

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

Relieving exhaust ( $\leq 10$  mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

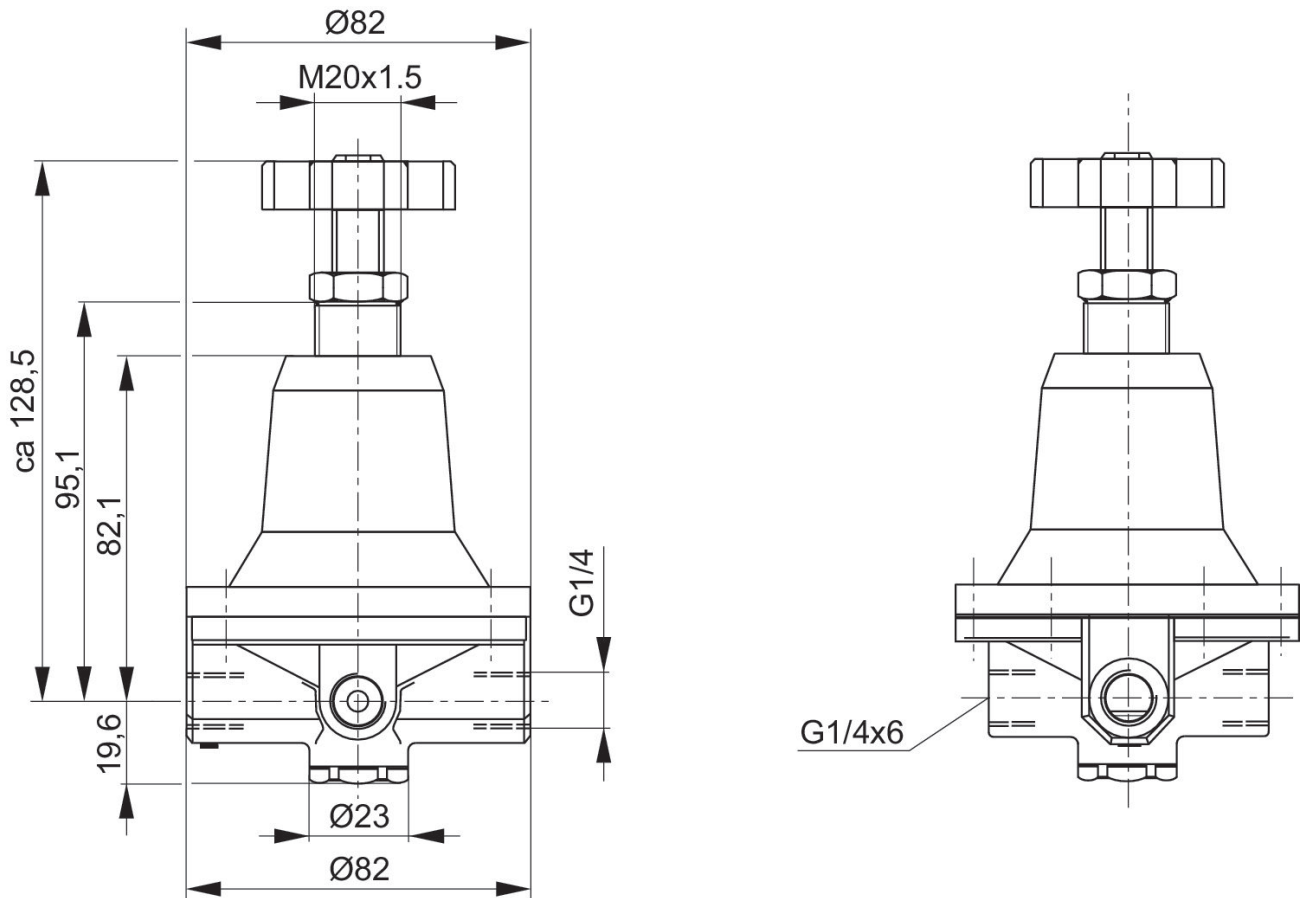
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

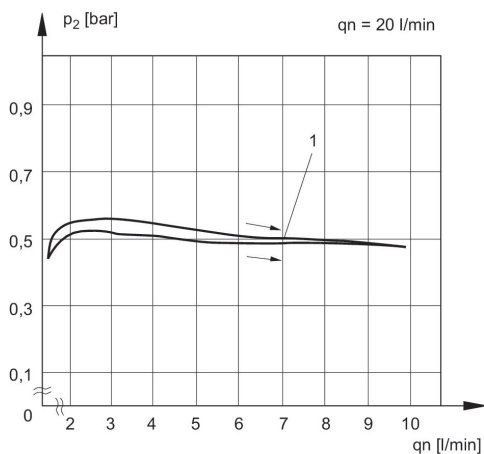
Suitable for use in Ex zones 1, 2, 21, 22.

Nominal flow with secondary pressure 0,8 bar at  $\Delta p = 0,2$  bar

### Dimensions in mm

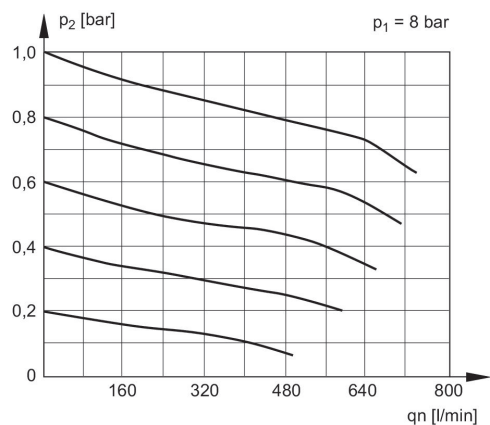


### Pressure characteristics curve



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow  
1) Starting point

### Flow rate characteristic, $p_2 = 0,05 - 7$ bar



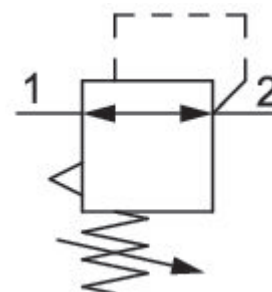
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

# Precision pressure regulator, Series PR1- RGP

0821302445

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 1/4

Qn =  
450 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
2 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-10 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
2.2 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
0.616 kg

## Material

Housing material  
Brass

Seal material  
Acrylonitrile butadiene rubber

Part No.  
0821302445

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket 1821332056 or installation in piping

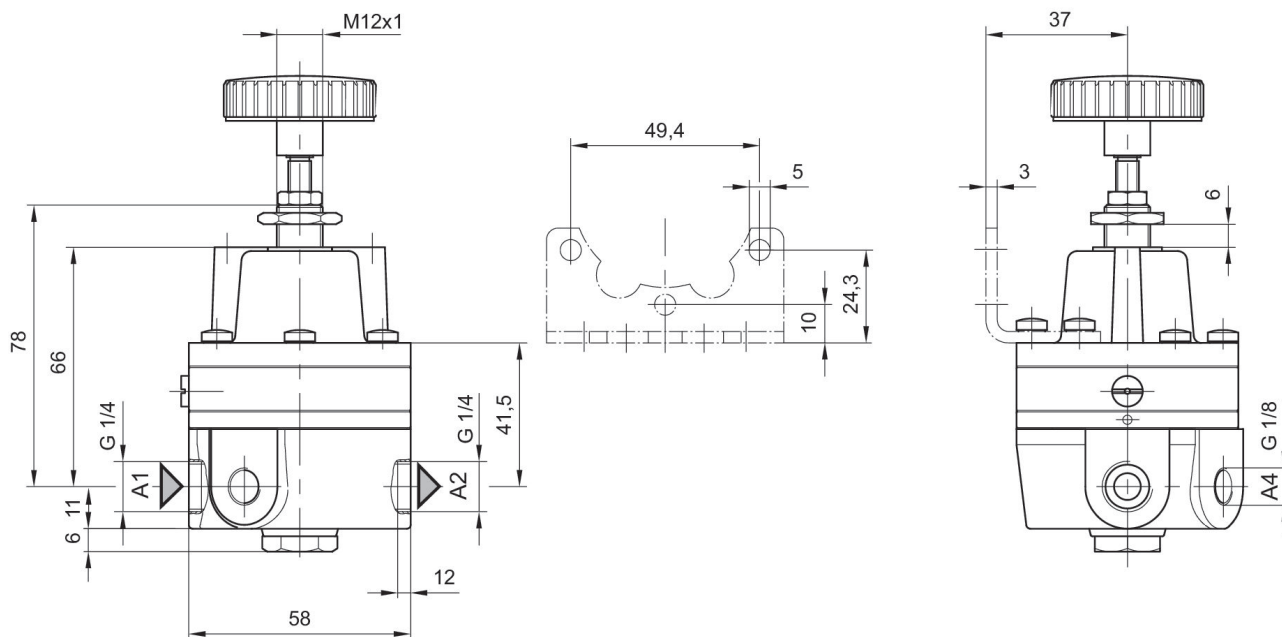
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

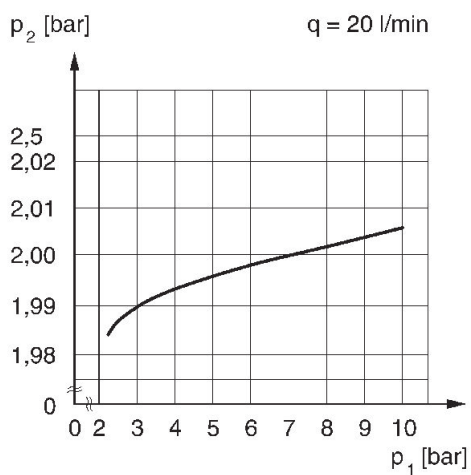
Nominal flow  $Q_n$  with secondary pressure  $p_2 = 6$  bar at  $\Delta p = 1$  bar

## Dimensions in mm



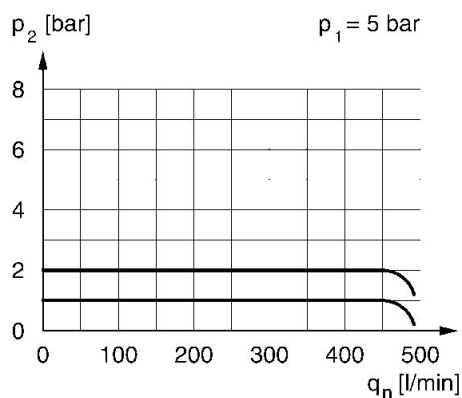
A1 = input  
A2 = output  
A4 = output

## Pressure characteristics curve



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate

## Flow rate characteristic, $p_2 = 0,05 - 2$ bar



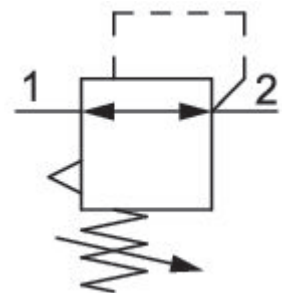
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

# Precision pressure regulator, Series PR1- RGP

0821302446

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

### Industry

Industrial

### Function

Precision pressure regulator

### Parts

Precision pressure regulator

### Port

G 1/4

### Qn =

580 l/min

### Mounting orientation

Any

### Regulator type

Diaphragm-type pressure regulator

### Regulation range min.

0.05 bar

### Regulation range max.

4 bar

### Working pressure min.

0.5 bar

### Working pressure max

16 bar

### Min. ambient temperature

-10 °C



Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
3 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
0.616 kg

## Material

Housing material  
Brass

Seal material  
Acrylonitrile butadiene rubber

Part No.  
0821302446

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket 1821332056 or installation in piping

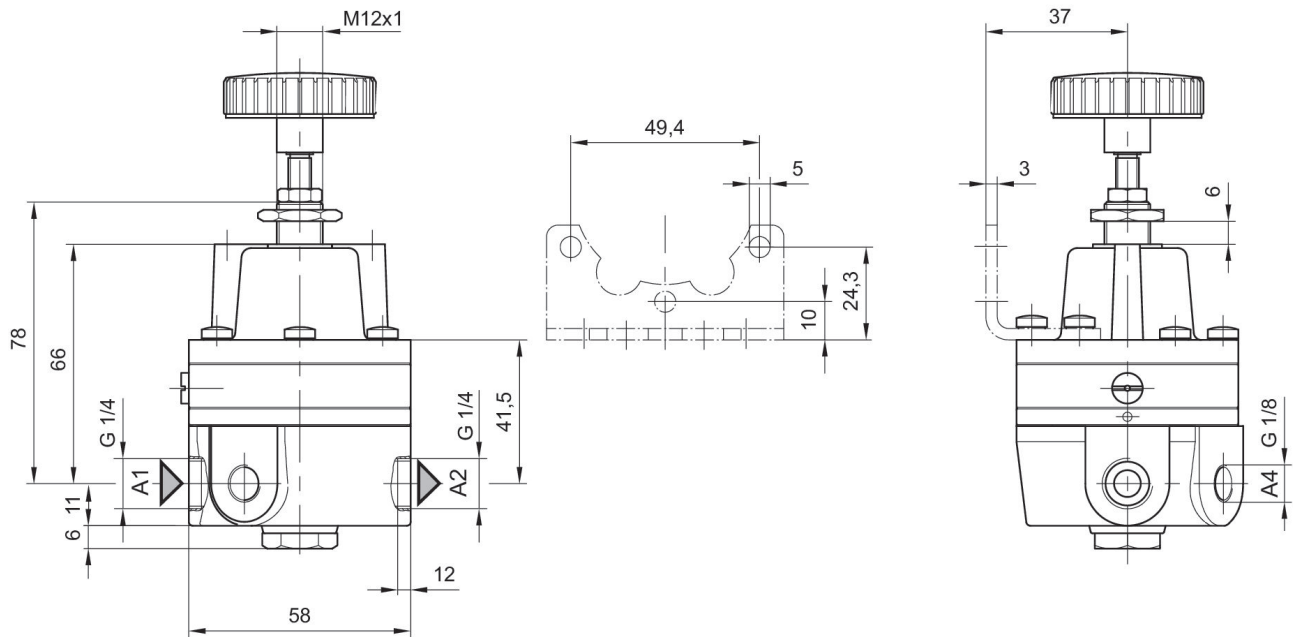
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

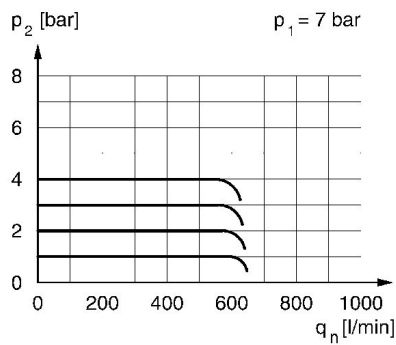
Nominal flow  $Q_n$  with secondary pressure  $p_2 = 6$  bar at  $\Delta p = 1$  bar

### Dimensions in mm

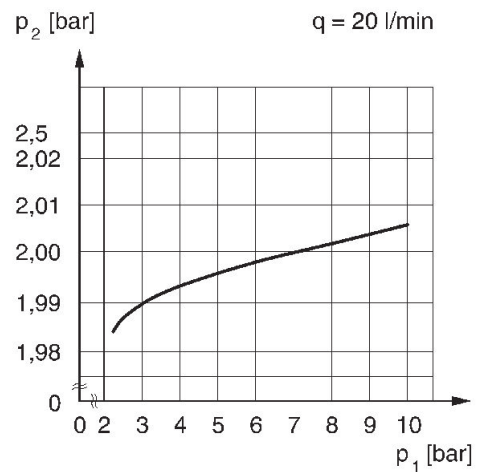


A1 = input  
A2 = output  
A4 = output

### Flow rate characteristic, $p_2 = 0,05 - 4$ bar Pressure characteristics curve



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow



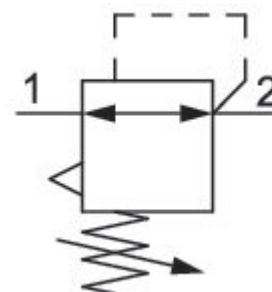
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate

# Precision pressure regulator, Series PR1- RGP

0821302447

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

### Industry

Industrial

### Function

Precision pressure regulator

### Parts

Precision pressure regulator

### Port

G 1/4

### Qn =

1000 l/min

### Mounting orientation

Any

### Regulator type

Diaphragm-type pressure regulator

### Regulation range min.

0.05 bar

### Regulation range max.

7 bar

### Working pressure min.

0.5 bar

### Working pressure max

16 bar

### Min. ambient temperature

-10 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
4.1 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
0.616 kg

## Material

Housing material  
Brass

Seal material  
Acrylonitrile butadiene rubber

Part No.  
0821302447

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket 1821332056 or installation in piping

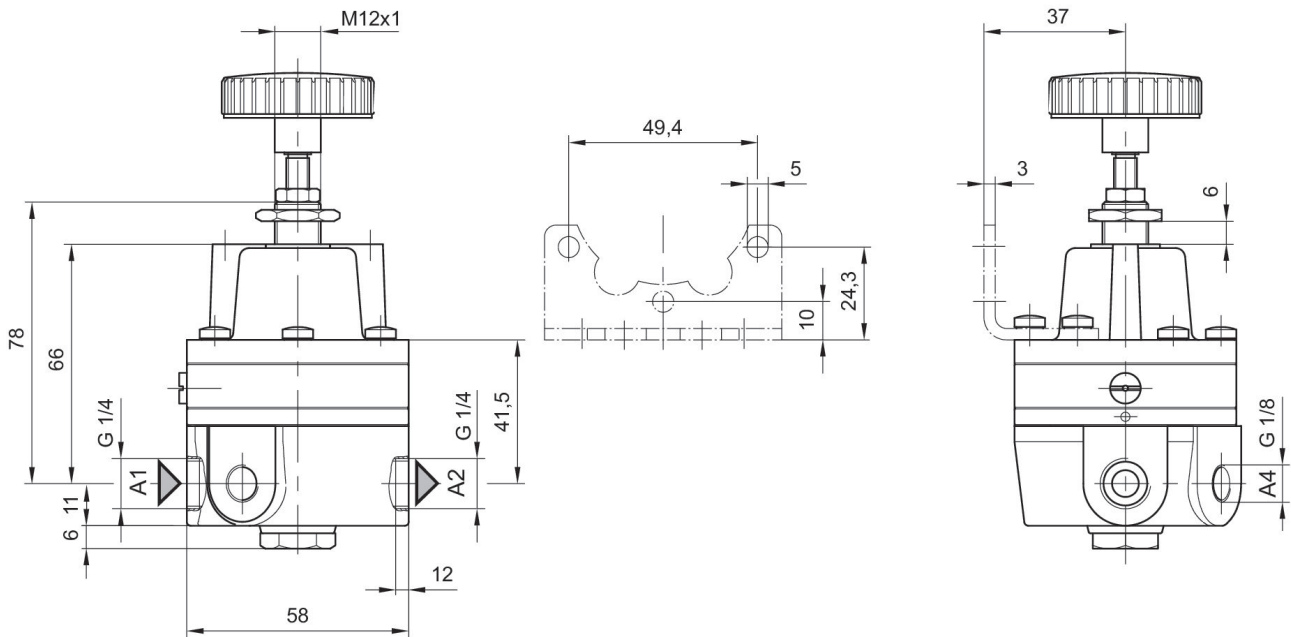
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

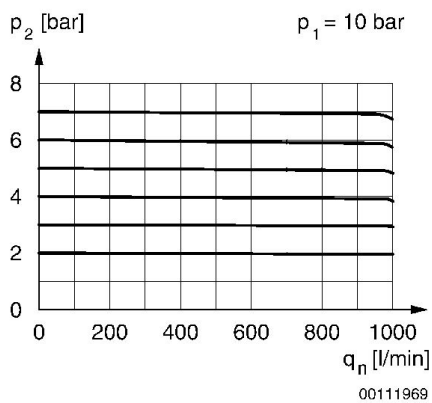
Nominal flow  $Q_n$  with secondary pressure  $p_2 = 6$  bar at  $\Delta p = 1$  bar

### Dimensions in mm



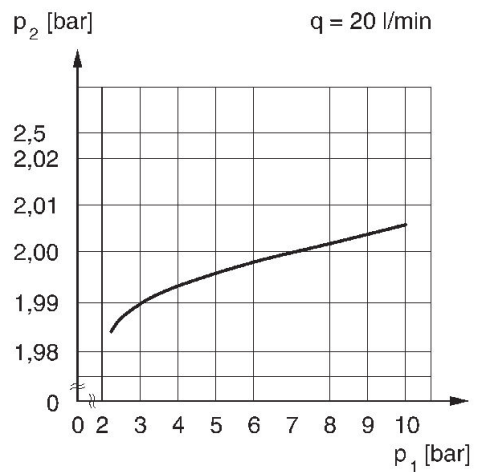
A1 = input  
A2 = output  
A4 = output

### Flow rate characteristic, $p_2 = 0,05 - 7$ bar



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

### Pressure characteristics curve



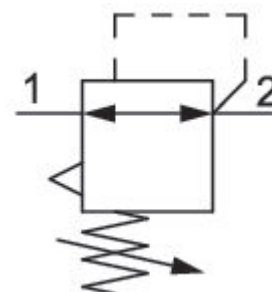
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate

# Precision pressure regulator, Series PR1- RGP

0821302173

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 1/2

Qn =  
6500 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
7 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
1.5 kg

## Material

Housing material  
Die cast zinc

Part No.  
0821302173

Seal material  
Chloroprene rubber

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

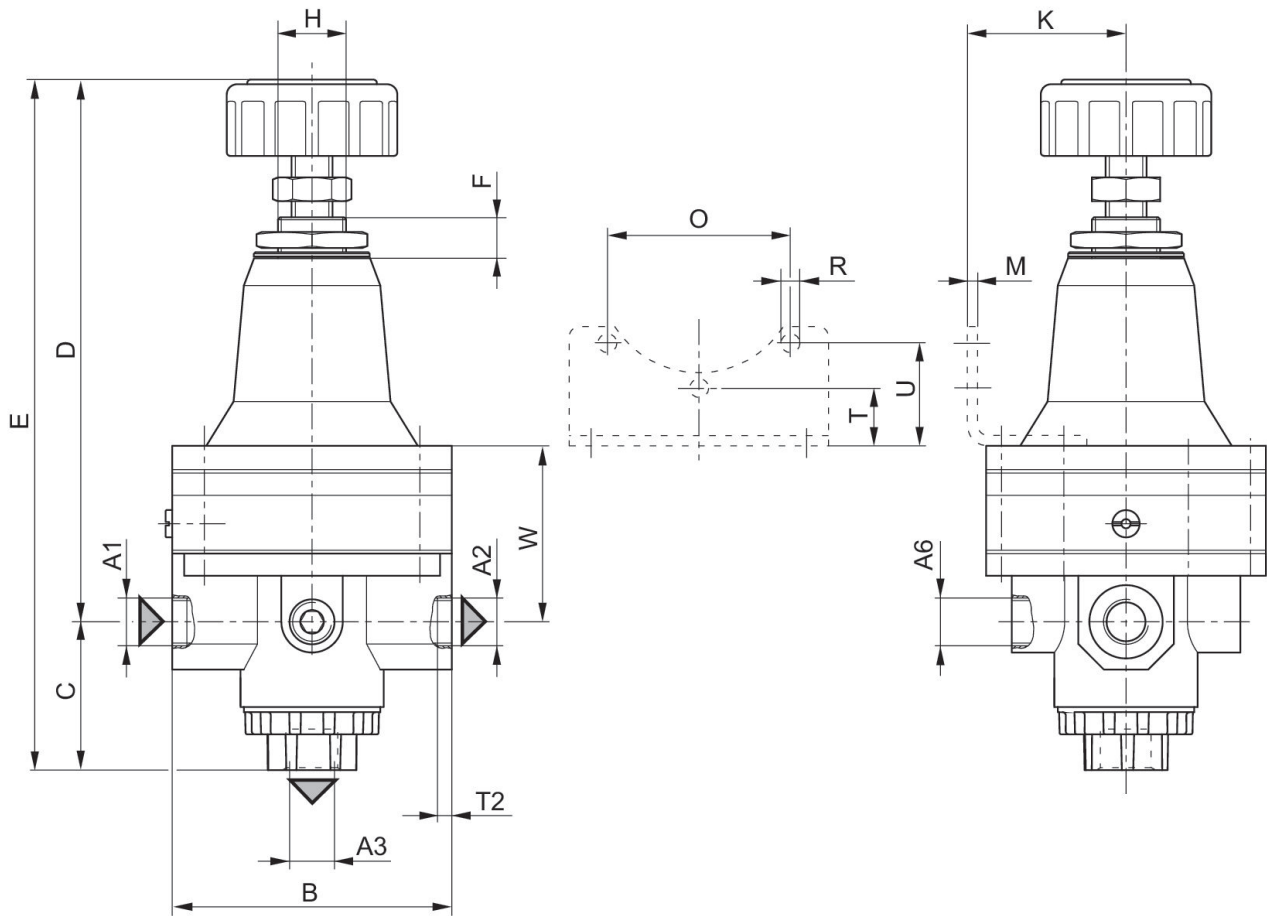
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

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

## Dimensions



A1 = input  
A2 = output  
A3 = output  
A6 = output

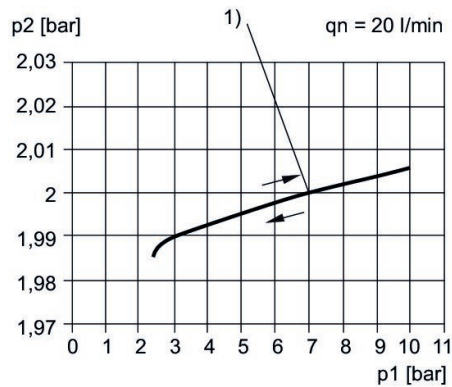
## Dimensions in mm

Part No.	A1	A2	A3	A6	B	C	D	E	F
0821302173	G 1/2	G 1/2	G 3/8	G 1/4	82	43.5	159	202.5	10

Part No.	H	K	M	O	R	T	T2	U	W
0821302173	M20x1,5	47	3	54	4	17	16	30	51.6

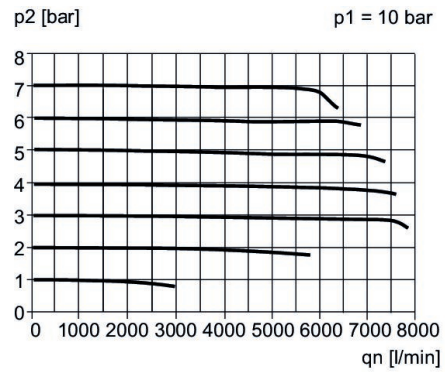


### Hysteresis



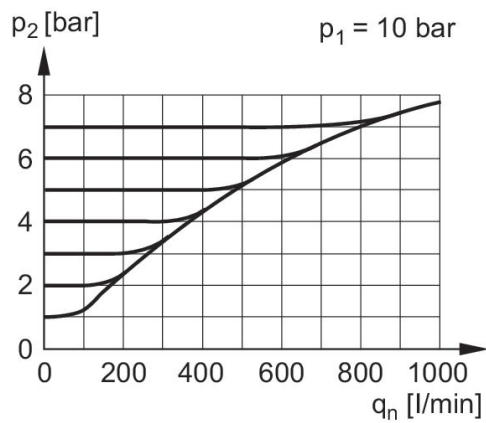
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate  
1) \* starting point

### Flow rate characteristic



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

### exhaust characteristics (contact limit < 10 mbar)



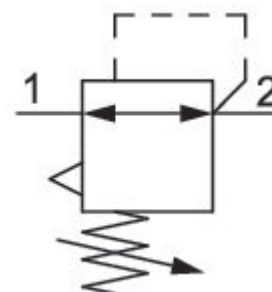
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

# Precision pressure regulator, Series PR1- RGP

0821302554

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 3/8

Qn =  
3200 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
3 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
1.5 kg

## Material

Housing material  
Die cast zinc

Seal material  
Chloroprene rubber

Part No.  
0821302554

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

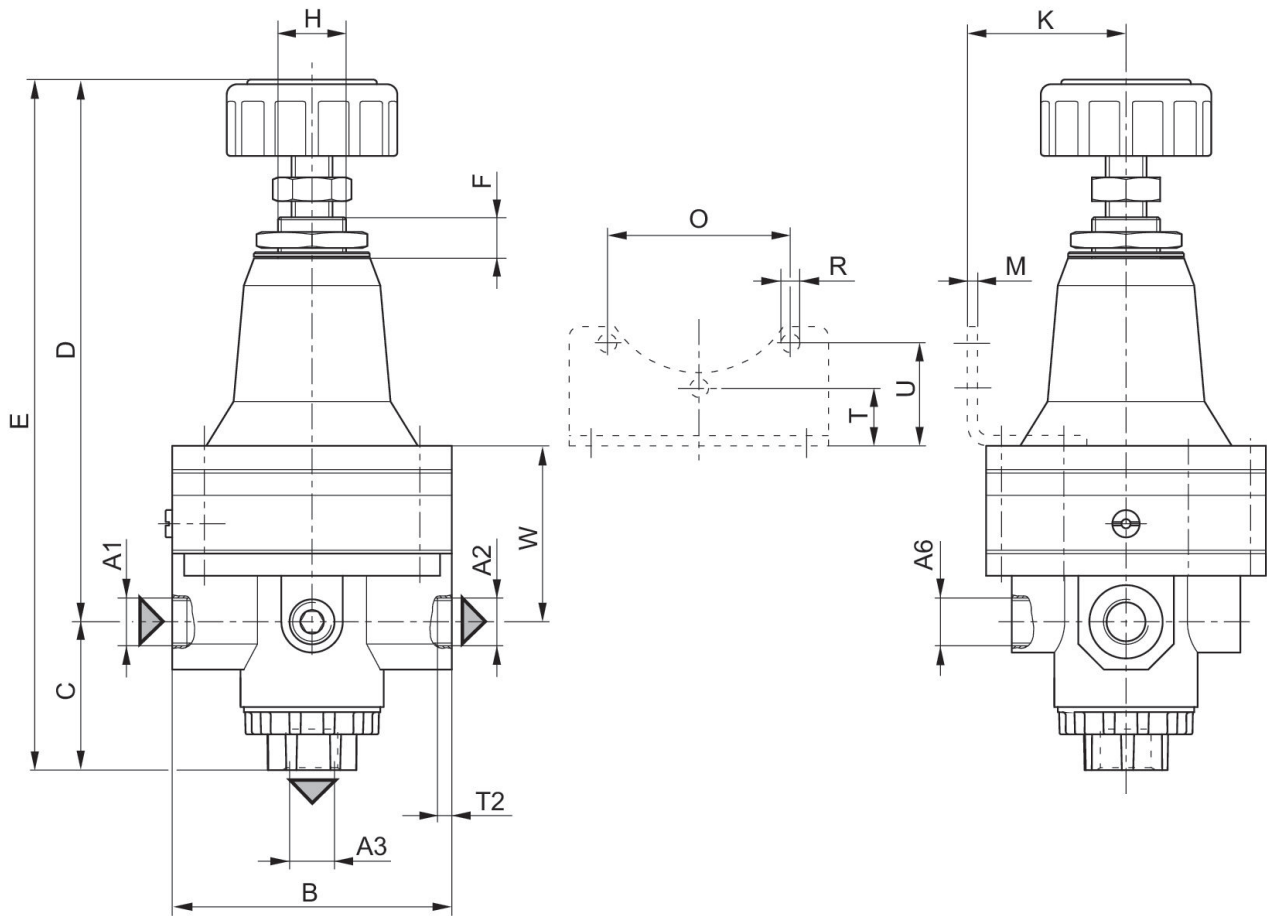
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

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

## Dimensions



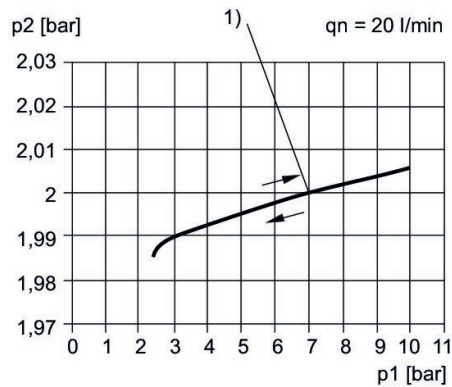
A1 = input  
A2 = output  
A3 = output  
A6 = output

## Dimensions in mm

Part No.	A1	A2	A3	A6	B	C	D	E	F
0821302554	G 3/8	G 3/8	G 3/8	G 1/4	82	43.5	159	202.5	10

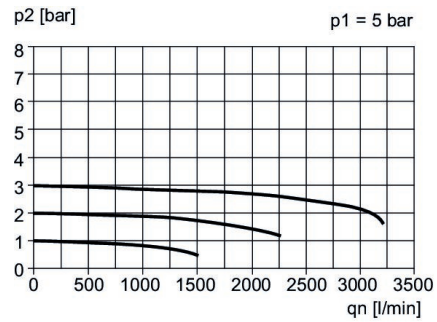
Part No.	H	K	M	O	R	T	T2	U	W
0821302554	M20x1,5	47	3	54	4	17	16	30	51.6

### Hysteresis



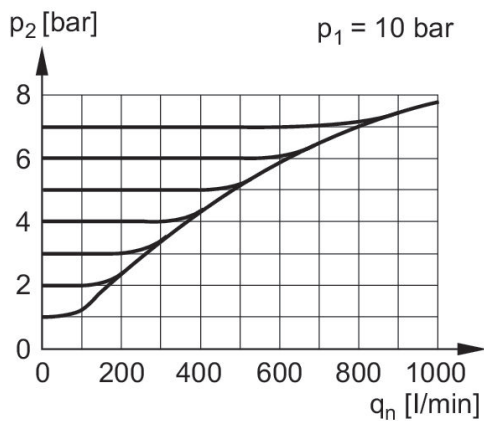
p1 = working pressure  
p2 = secondary pressure  
q = flow rate  
1) \* starting point

### Flow rate characteristic



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

### exhaust characteristics (contact limit < 10 mbar)



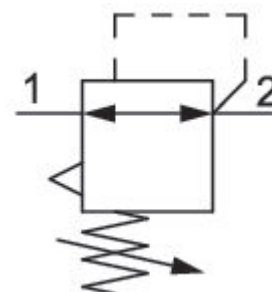
p1 = working pressure  
p2 = secondary pressure  
qn = nominal flow

# Precision pressure regulator, Series PR1- RGP

0821302555

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 3/8

Qn =  
4000 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
5 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
1.5 kg

## Material

Housing material  
Die cast zinc

Seal material  
Chloroprene rubber

Part No.  
0821302555

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

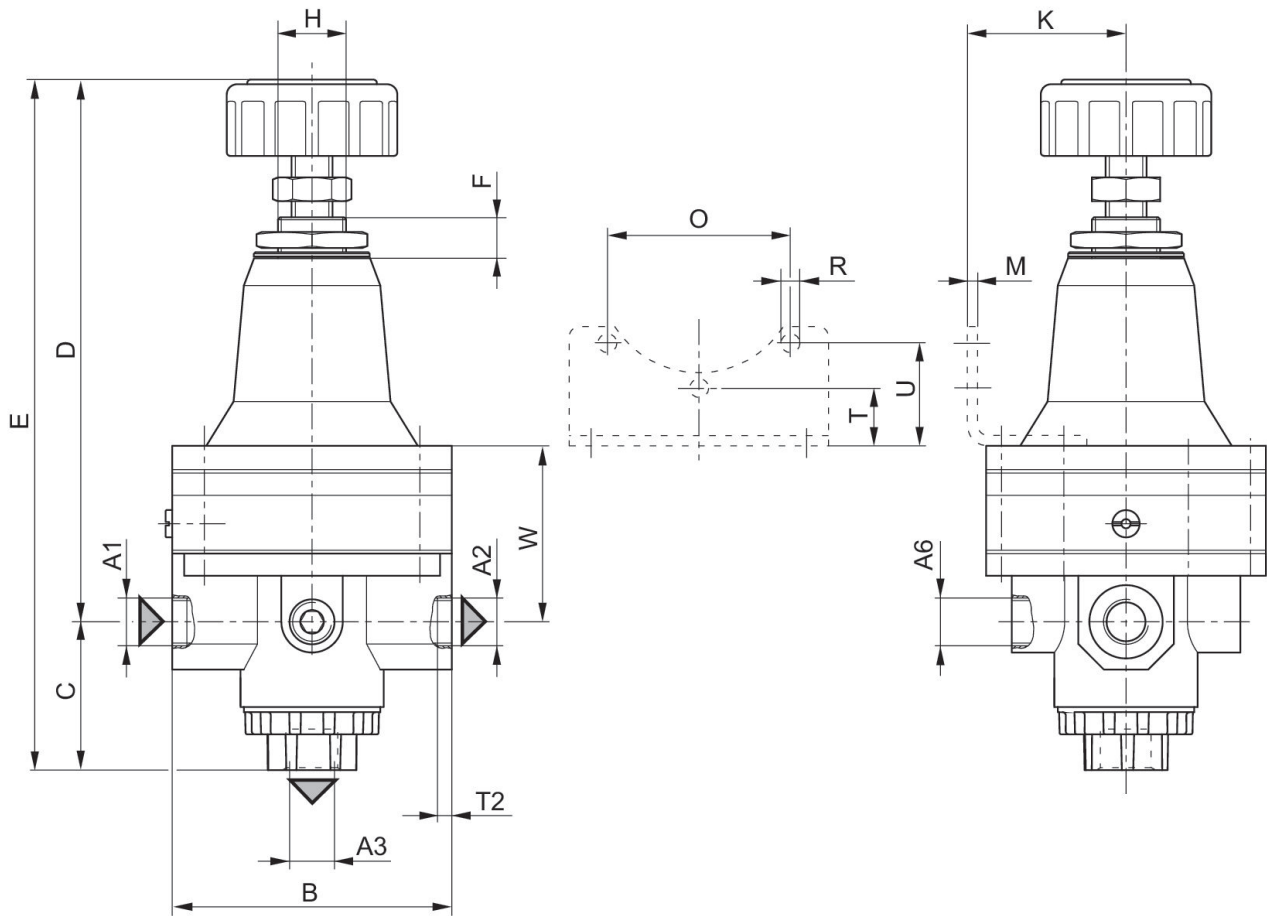
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

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

## Dimensions



A1 = input  
A2 = output  
A3 = output  
A6 = output

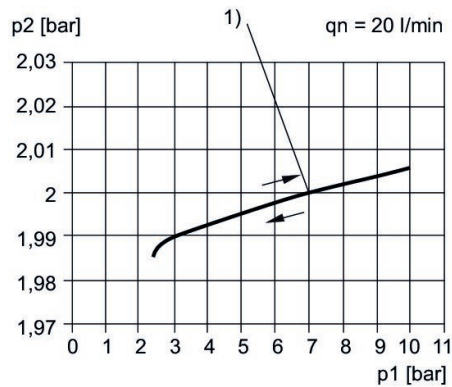
## Dimensions in mm

Part No.	A1	A2	A3	A6	B	C	D	E	F
0821302555	G 3/8	G 3/8	G 3/8	G 1/4	82	43.5	159	202.5	10

Part No.	H	K	M	O	R	T	T2	U	W
0821302555	M20x1,5	47	3	54	4	17	16	30	51.6

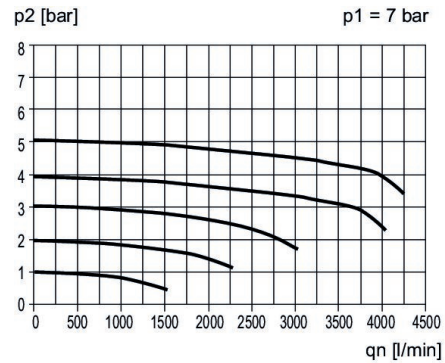


### Hysteresis



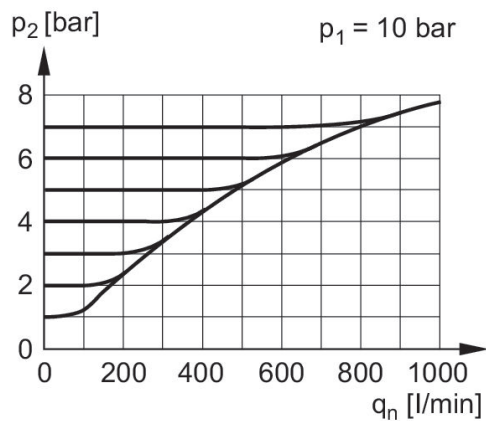
p1 = working pressure  
p2 = secondary pressure  
q = flow rate  
1) \* starting point

### Flow rate characteristic



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

### exhaust characteristics (contact limit < 10 mbar)



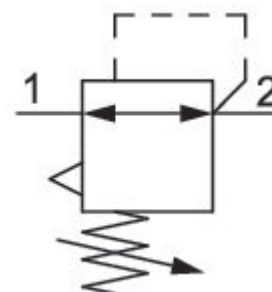
p1 = working pressure  
p2 = secondary pressure  
qn = nominal flow

# Precision pressure regulator, Series PR1- RGP

0821302556

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 3/8

Qn =  
5000 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
7 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
1.5 kg

## Material

Housing material  
Die cast zinc

Seal material  
Chloroprene rubber

Part No.  
0821302556

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

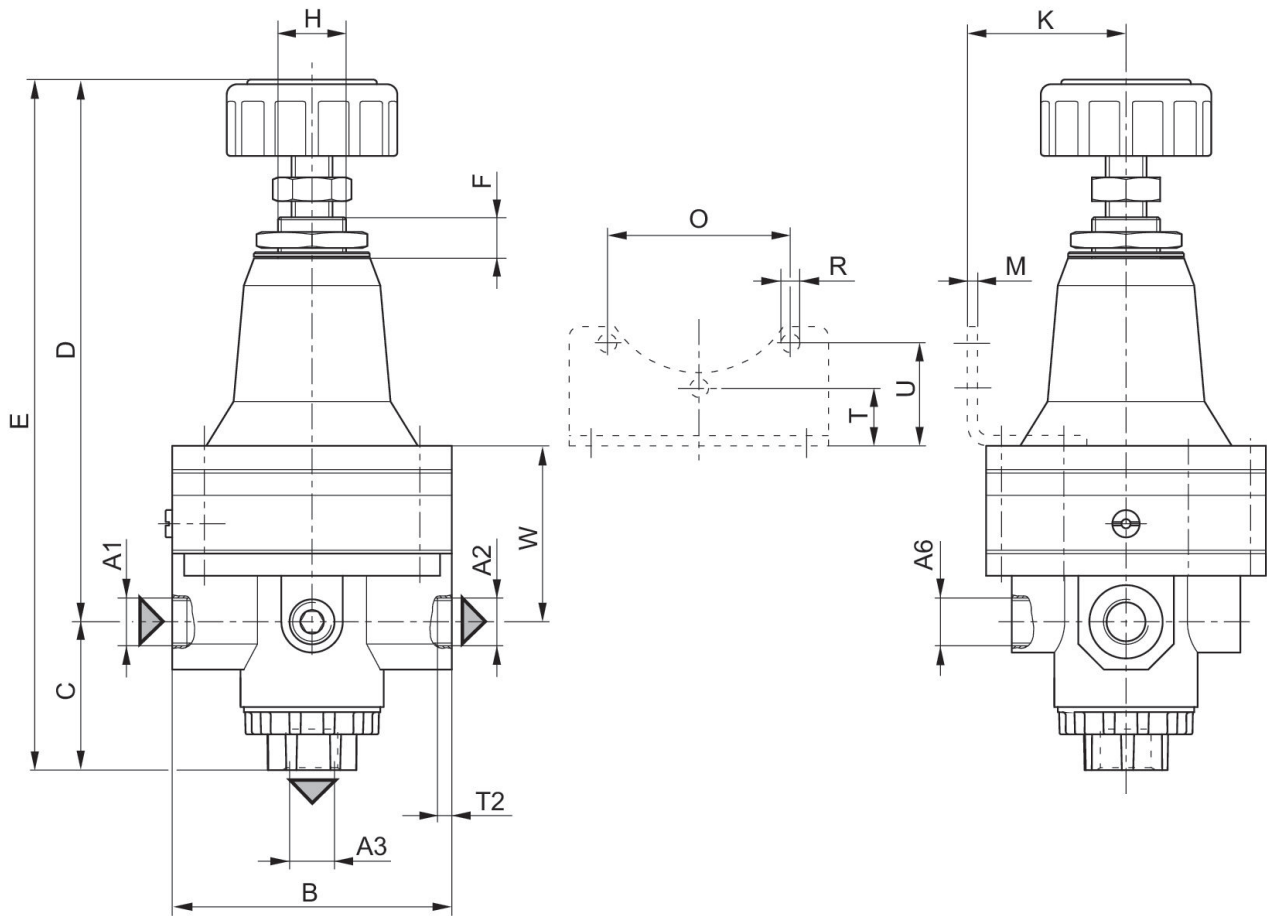
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

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

## Dimensions



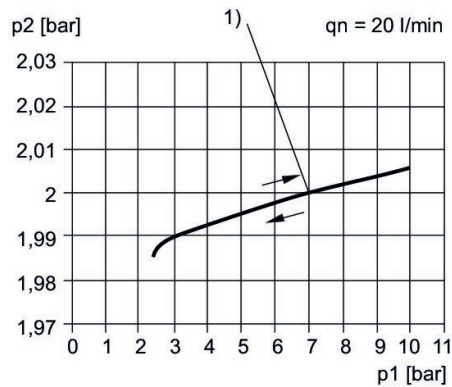
A1 = input  
A2 = output  
A3 = output  
A6 = output

## Dimensions in mm

Part No.	A1	A2	A3	A6	B	C	D	E	F
0821302556	G 3/8	G 3/8	G 3/8	G 1/4	82	43.5	159	202.5	10

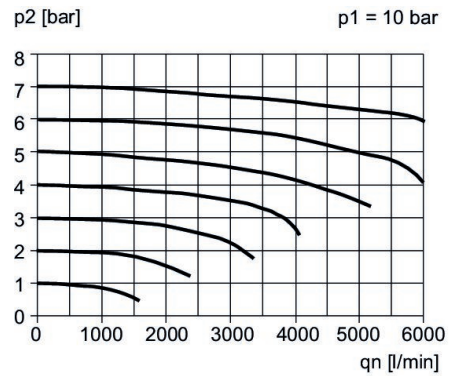
Part No.	H	K	M	O	R	T	T2	U	W
0821302556	M20x1,5	47	3	54	4	17	16	30	51.6

### Hysteresis



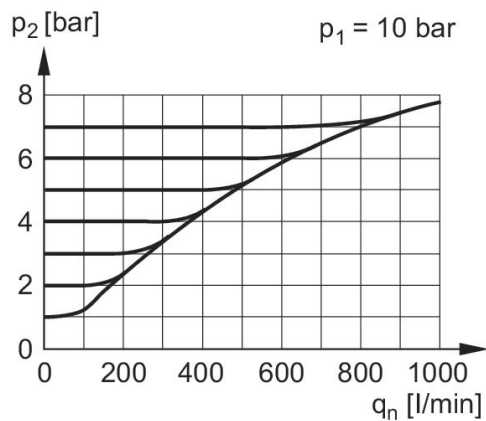
p1 = working pressure  
p2 = secondary pressure  
q = flow rate  
1) \* starting point

### Flow rate characteristic



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

### exhaust characteristics (contact limit < 10 mbar)



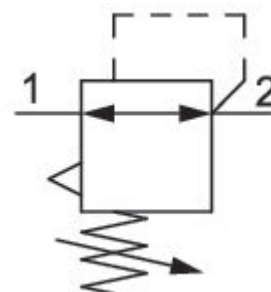
p1 = working pressure  
p2 = secondary pressure  
qn = nominal flow

# Precision pressure regulator, Series PR1- RGP

0821302565

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 1/4

Qn =  
2200 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
3 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
1.5 kg

## Material

Housing material  
Die cast zinc

Seal material  
Chloroprene rubber

Part No.  
0821302565

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

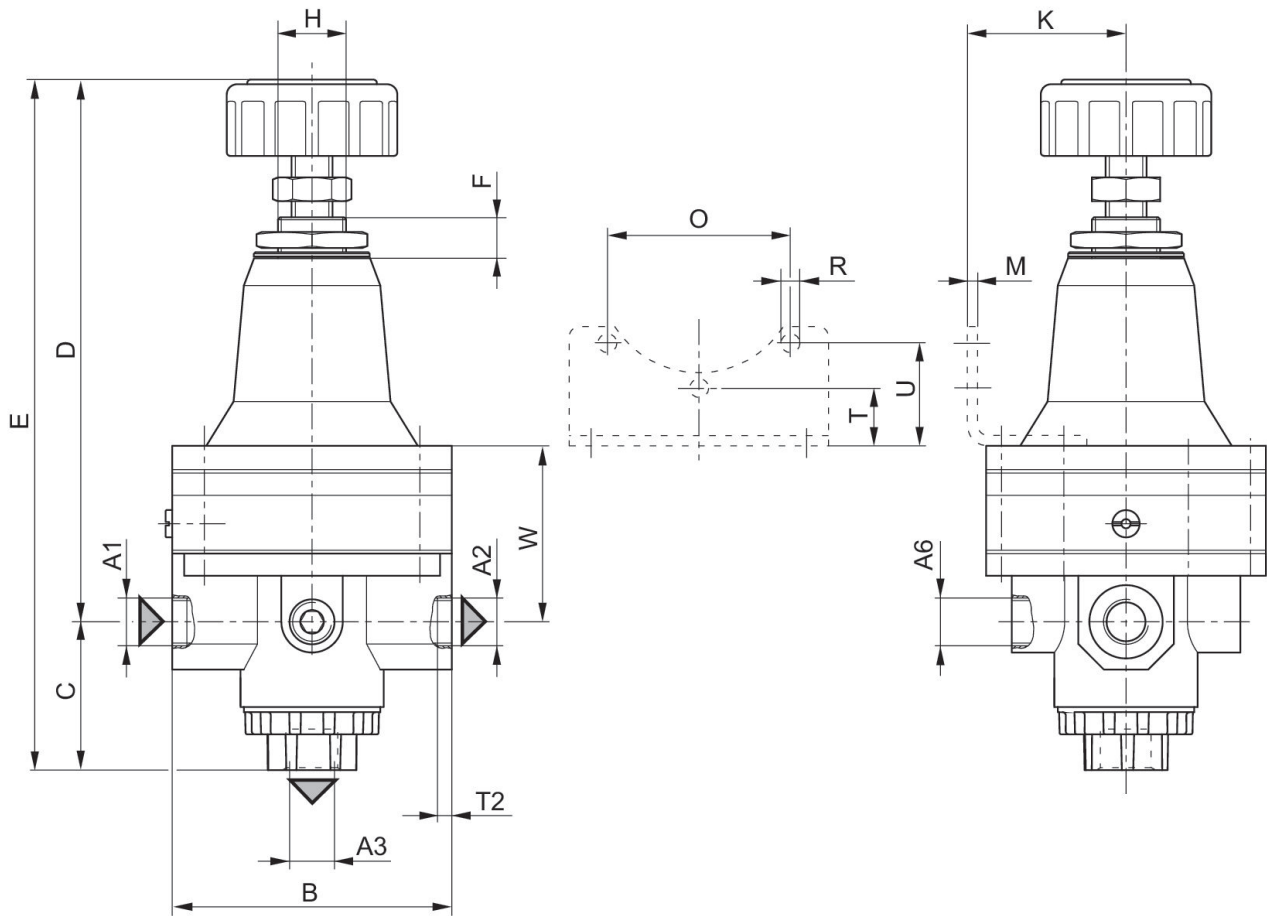
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

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

## Dimensions



A1 = input  
A2 = output  
A3 = output  
A6 = output

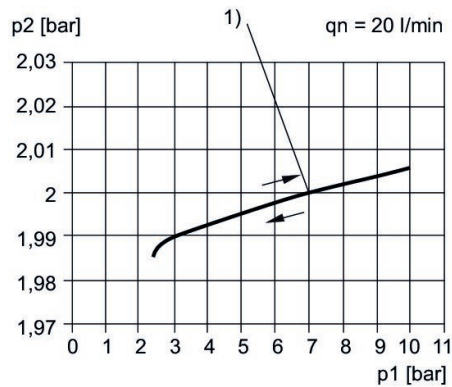
## Dimensions in mm

Part No.	A1	A2	A3	A6	B	C	D	E	F
0821302565	G 1/4	G 1/4	G 3/8	G 1/4	82	43.5	159	202.5	10

Part No.	H	K	M	O	R	T	T2	U	W
0821302565	M20x1,5	47	3	54	4	17	16	30	51.6

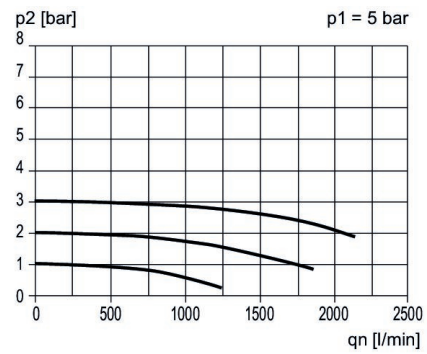


## Hysteresis



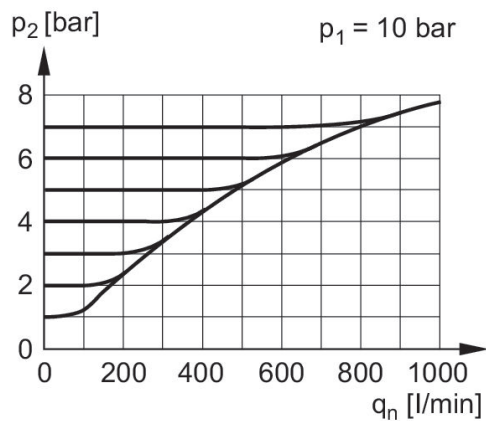
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate  
1) \* starting point

## Flow rate characteristic



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

## exhaust characteristics (contact limit < 10 mbar)



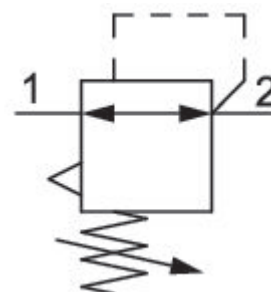
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

# Precision pressure regulator, Series PR1- RGP

0821302566

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 1/4

Qn =  
2600 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
5 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
1.5 kg

## Material

Housing material  
Die cast zinc

Seal material  
Chloroprene rubber

Part No.  
0821302566

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

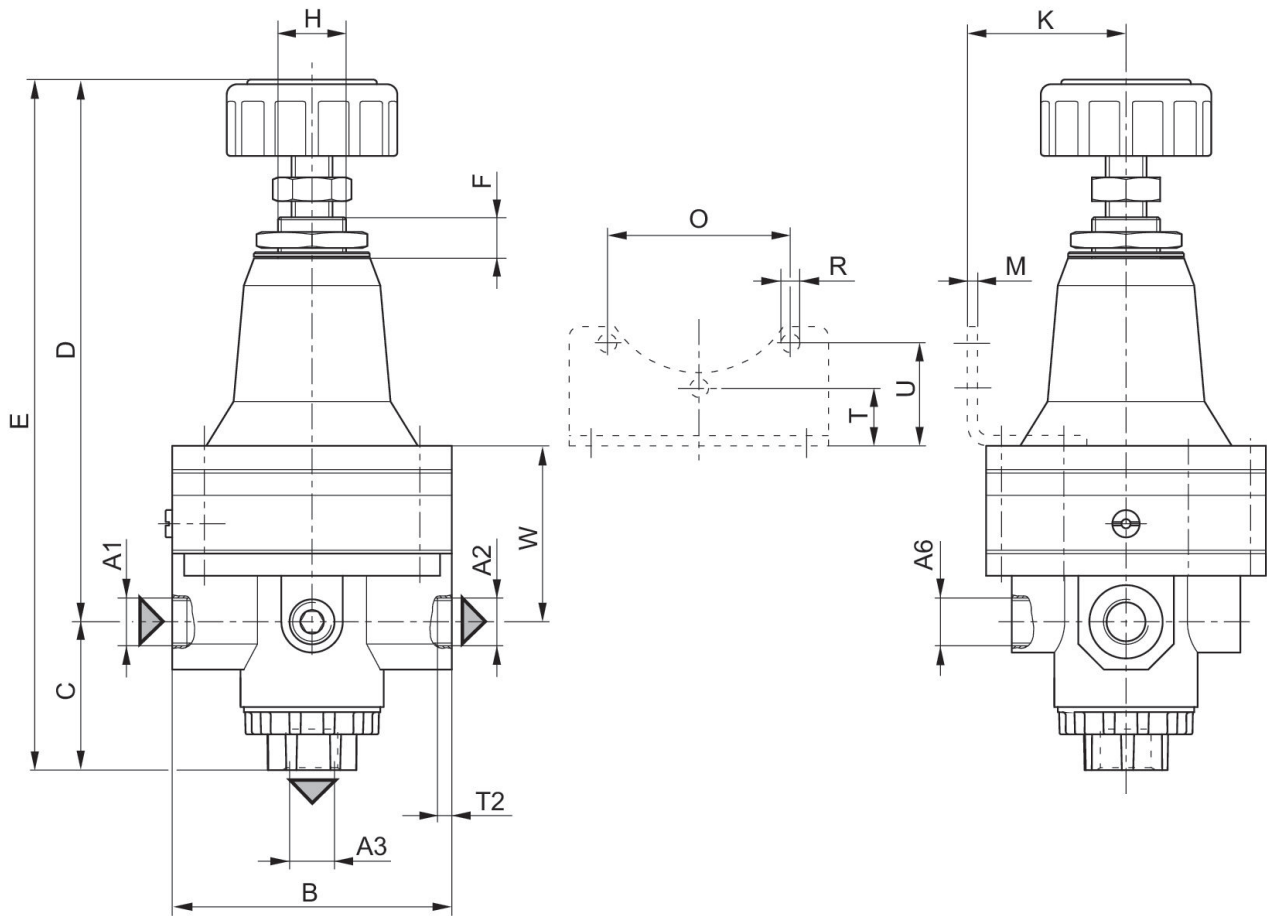
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

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

## Dimensions



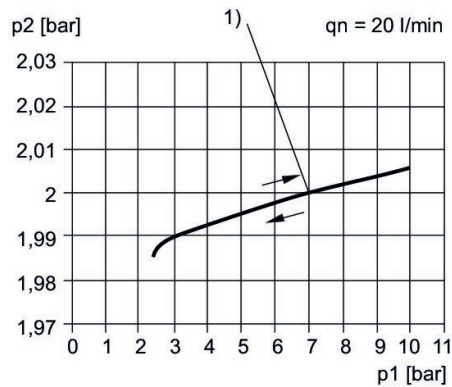
A1 = input  
A2 = output  
A3 = output  
A6 = output

## Dimensions in mm

Part No.	A1	A2	A3	A6	B	C	D	E	F
0821302566	G 1/4	G 1/4	G 3/8	G 1/4	82	43.5	159	202.5	10

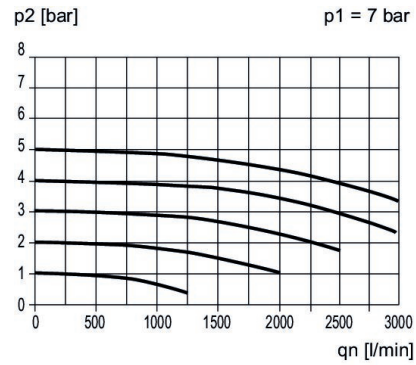
Part No.	H	K	M	O	R	T	T2	U	W
0821302566	M20x1,5	47	3	54	4	17	16	30	51.6

### Hysteresis



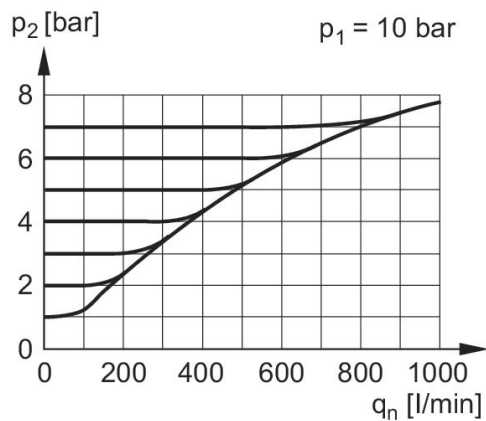
p1 = working pressure  
p2 = secondary pressure  
q = flow rate  
1) \* starting point

### Flow rate characteristic



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

### exhaust characteristics (contact limit < 10 mbar)



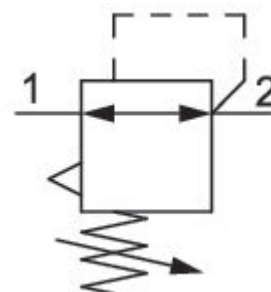
p1 = working pressure  
p2 = secondary pressure  
qn = nominal flow

# Precision pressure regulator, Series PR1- RGP

0821302567

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 1/4

Qn =  
3000 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
7 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Mechanical

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Weight  
1.5 kg

## Material

Housing material  
Die cast zinc

Seal material  
Chloroprene rubber

Part No.  
0821302567

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

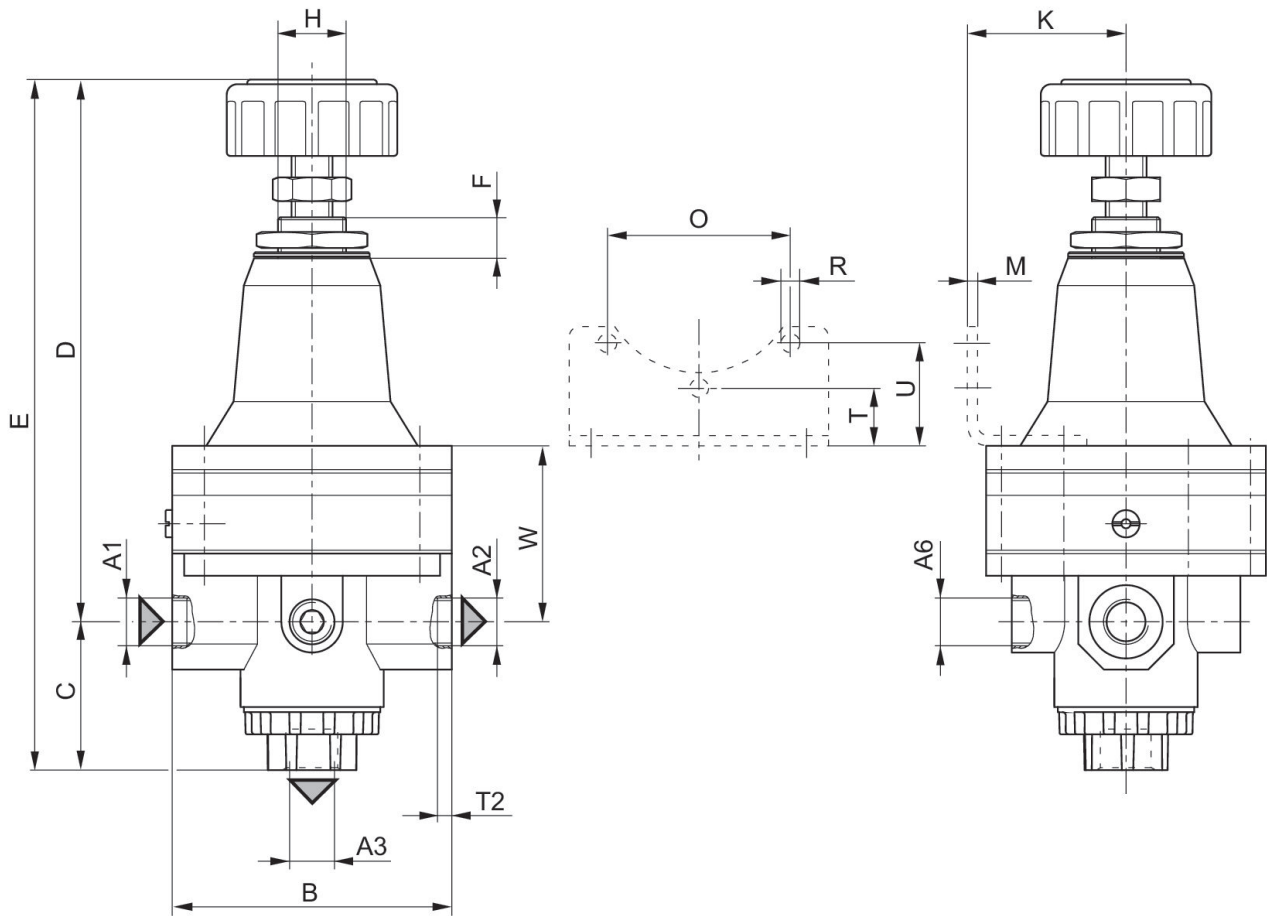
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

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

## Dimensions



A1 = input  
A2 = output  
A3 = output  
A6 = output

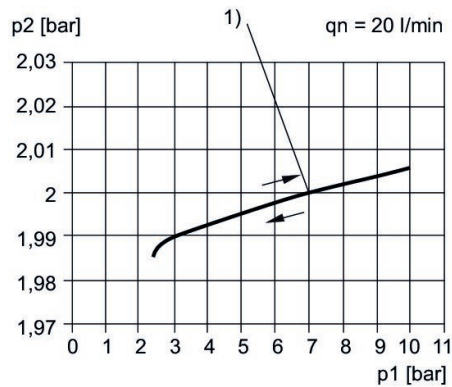
## Dimensions in mm

Part No.	A1	A2	A3	A6	B	C	D	E	F
0821302567	G 1/4	G 1/4	G 3/8	G 1/4	82	43.5	159	202.5	10

Part No.	H	K	M	O	R	T	T2	U	W
0821302567	M20x1,5	47	3	54	4	17	16	30	51.6

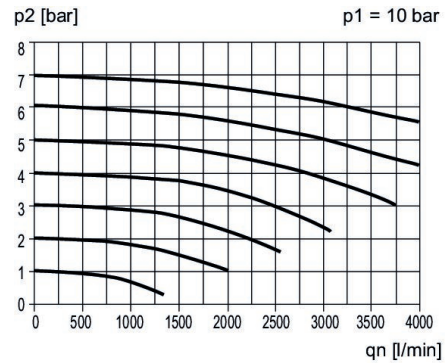


### Hysteresis



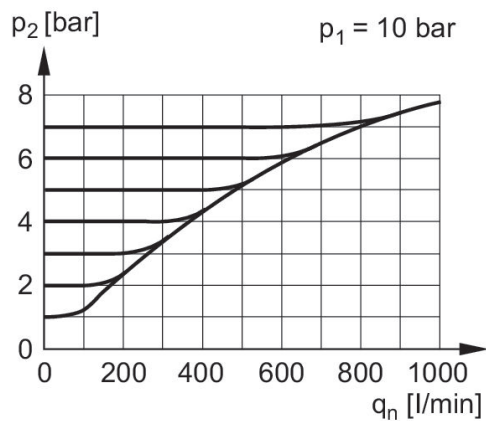
p1 = working pressure  
p2 = secondary pressure  
q = flow rate  
1) \* starting point

### Flow rate characteristic



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

### exhaust characteristics (contact limit < 10 mbar)



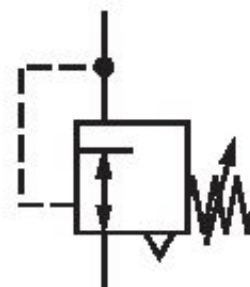
p1 = working pressure  
p2 = secondary pressure  
qn = nominal flow

# Precision pressure regulator, Series PR1- RGP

0821302165

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 1/2

Qn =  
5600 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
10 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Pneumatically

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Control pressure max.  
10 bar

Weight  
1.25 kg

## Material

Housing material  
Die cast zinc

Part No.  
0821302165

Seal material  
Chloroprene rubber

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

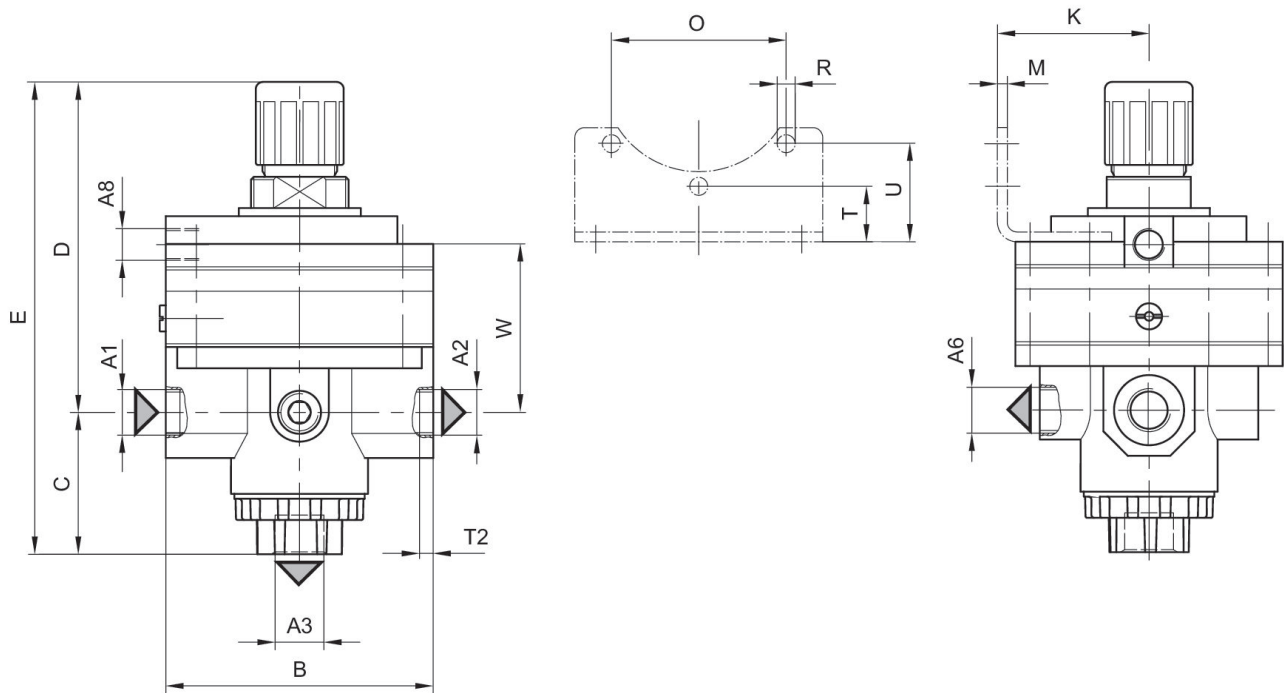
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

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

## Dimensions



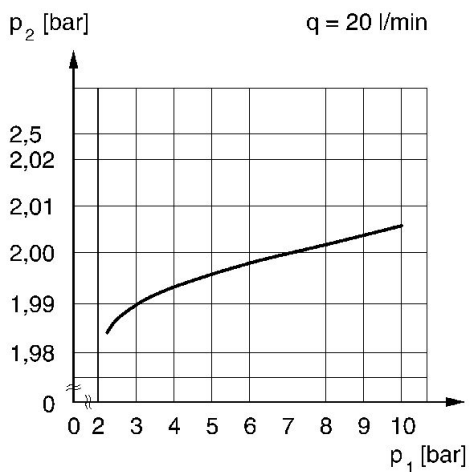
A1 = input  
A2 = output  
A3 = output  
A6 = output

## Dimensions in mm

Part No.	A1	A2	A3	A6	A8	B	C	D	E
0821302165	G 1/2	G 1/2	G 3/8	G 1/4	G 1/8	82	43.5	100.5	144

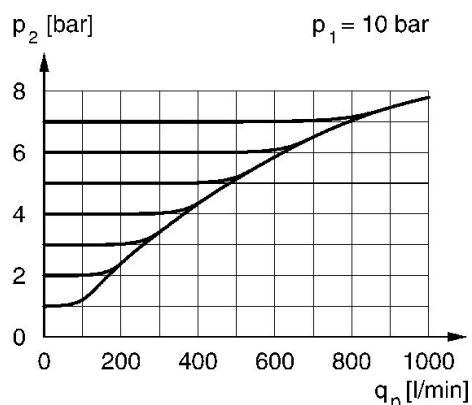
Part No.	J	K	M	O	R	T	T2	U	W
0821302165	16	47	3	54	4	17	16	30	51

### Pressure characteristics curve



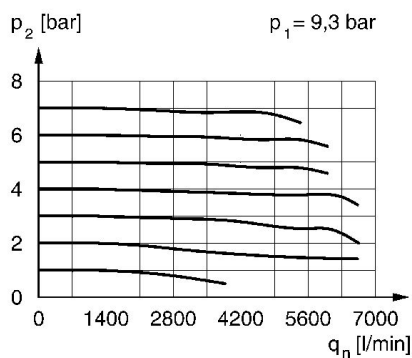
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate

### exhaust characteristics (contact limit < 10 mbar)



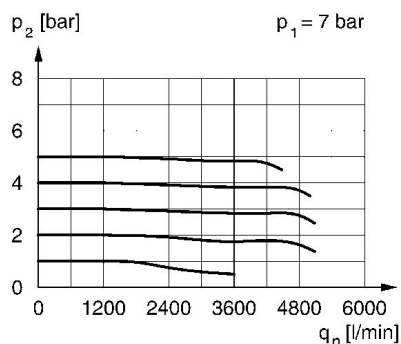
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

### Flow rate characteristic, $p_2 = 0,05 - 7$ bar



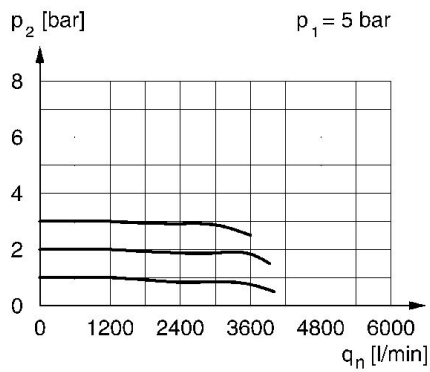
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

### Flow rate characteristic, $p_2 = 0,05 - 5$ bar

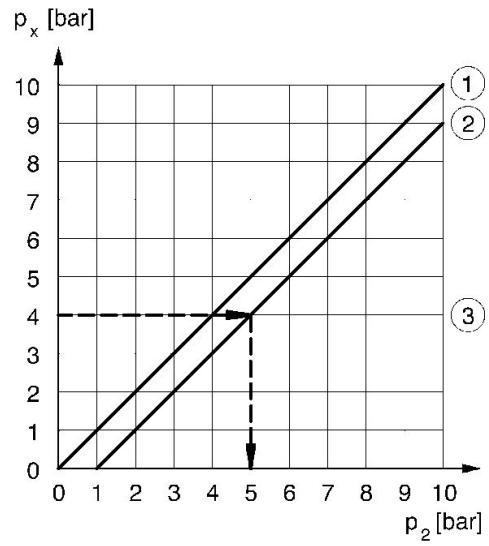


$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

Flow rate characteristic,  $p_2 = 0,05 - 3$  bar control pressure characteristic



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow



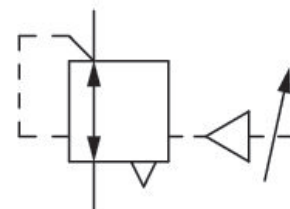
$p_x$  = control pressure  
 $p_2$  = secondary pressure  
1) Pneumatically operated  
2) Man. adjustment up to 1 bar

# Precision pressure regulator, Series PR1- RGP

0821302052

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 3/8

Qn =  
5600 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
10 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Pneumatically

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Control pressure max.  
10 bar

Weight  
1.26 kg

## Material

Housing material  
Die cast zinc

Seal material  
Chloroprene rubber

Part No.  
0821302052

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

Notice: This product may only be operated with oil-free, dry compressed air.

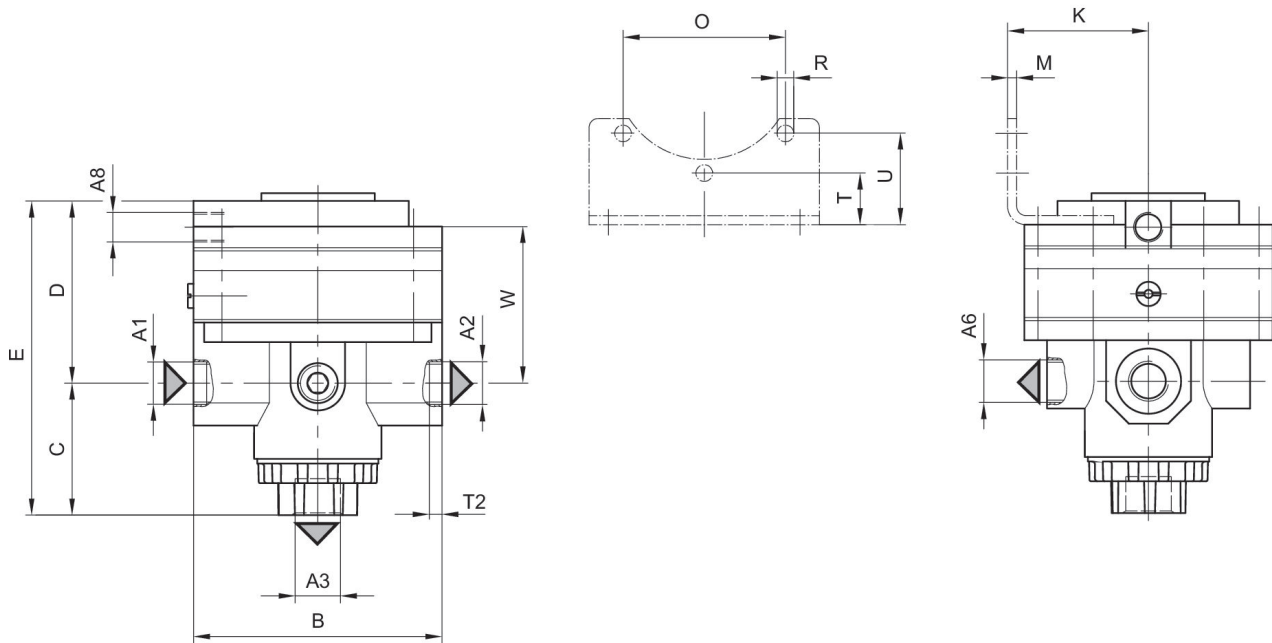
Internal air consumption depending on adjustment range

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

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



## Dimensions



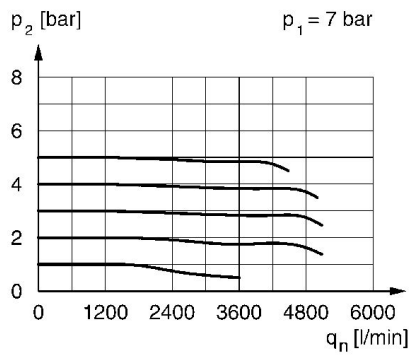
A1 = input  
A2 = output  
A3 = relieving exhaust  
A6 = pressure gauge connection  
A8 = Pilot connection

## Dimensions in mm

Part No.	A1	A2	A3	A6	A8	B	C	D	E
0821302052	G 3/8	G 3/8	G 3/8	G 1/4	G 1/8	82	43.5	65.5	108

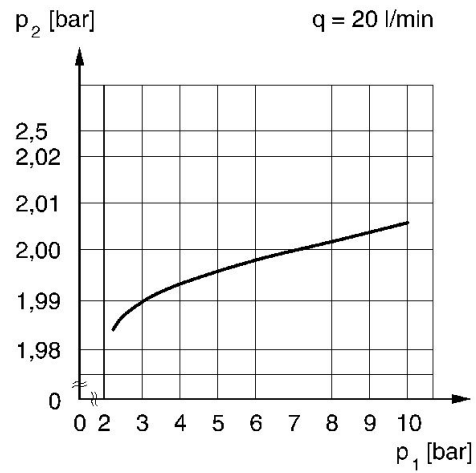
Part No.	K	M	O	R	T	T2	U	W
0821302052	47	3	54	4	17	16	30	51

Flow rate characteristic,  $p_2 = 0,05 - 5$  bar



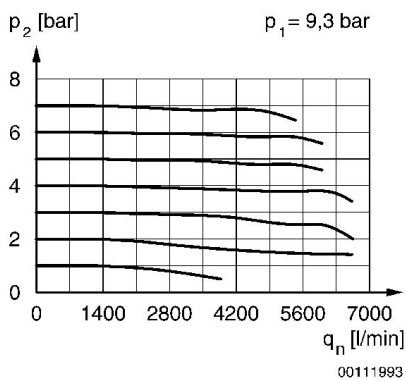
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

Pressure characteristics curve



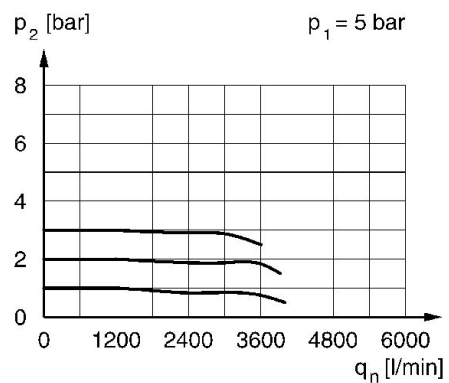
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate

Flow rate characteristic,  $p_2 = 0,05 - 7$  bar



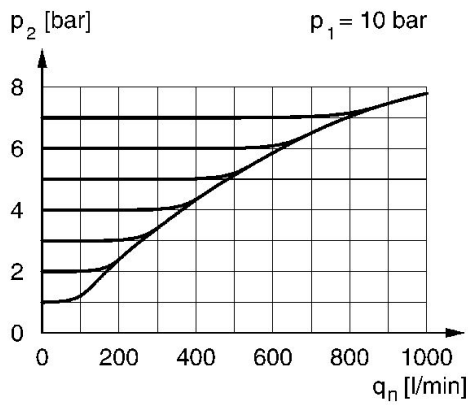
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

Flow rate characteristic,  $p_2 = 0,05 - 3$  bar



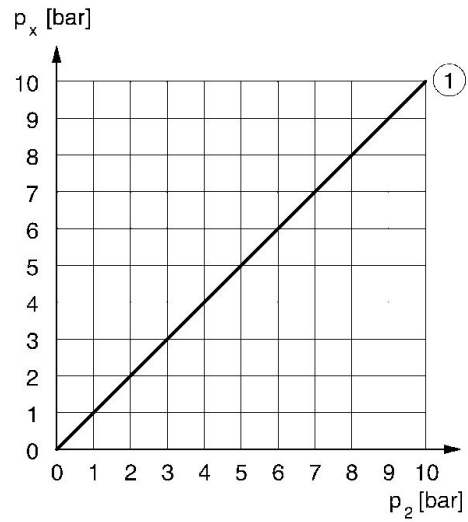
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

exhaust characteristics (contact limit  
< 10 mbar)



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

control pressure characteristic



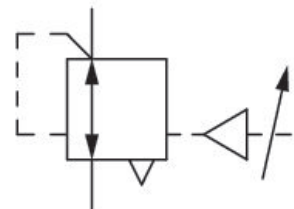
px = control pressure  
p2 = secondary pressure  
1) Pneumatically operated

# Precision pressure regulator, Series PR1- RGP

0821302055

## General series information PR1

- The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.



## Technical data

Industry  
Industrial

Function  
Precision pressure regulator

Parts  
Precision pressure regulator

Port  
G 1/2

Qn =  
5600 l/min

Mounting orientation  
Any

Regulator type  
Diaphragm-type pressure regulator

Regulation range min.  
0.05 bar

Regulation range max.  
10 bar

Working pressure min.  
0.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-35 °C

Max. ambient temperature  
60 °C

Activation  
Pneumatically

ATEX  
suitable for ATEX

Certificates  
suitable for ATEX

Regulator function  
with relieving air exhaust

Pressure supply  
single

Internal air consumption  $q_v$  max.  
6 l/min

Medium  
Compressed air  
Neutral gases

Recommended pre-filtering  
5  $\mu$ m

Control pressure max.  
10 bar

Weight  
1.26 kg

## Material

Housing material  
Die cast zinc

Seal material  
Chloroprene rubber

Part No.  
0821302055

## Technical information

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

Relieving exhaust ( $\leq$  10 mbar over set pressure)

Mounting: mounting bracket R412004872 or installation in piping

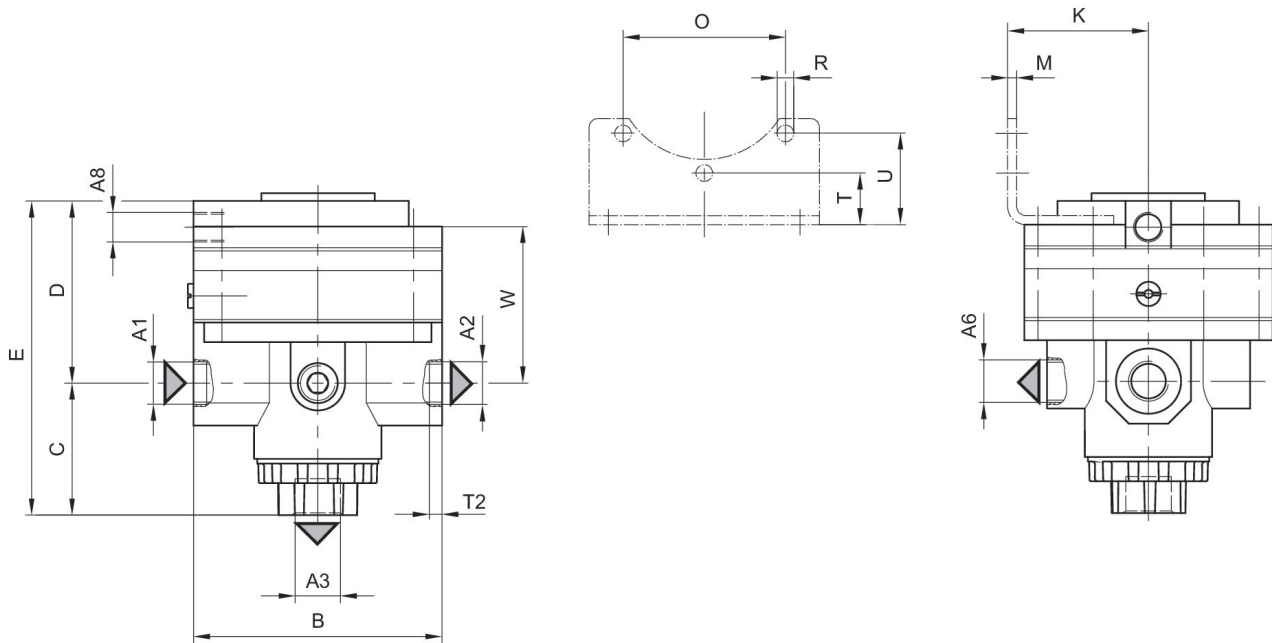
Notice: This product may only be operated with oil-free, dry compressed air.

Internal air consumption depending on adjustment range

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

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

## Dimensions



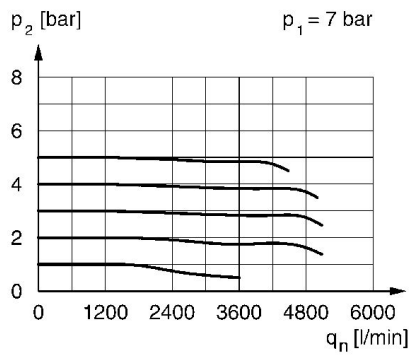
A1 = input  
A2 = output  
A3 = relieving exhaust  
A6 = pressure gauge connection  
A8 = Pilot connection

## Dimensions in mm

Part No.	A1	A2	A3	A6	A8	B	C	D	E
0821302055	G 1/2	G 1/2	G 3/8	G 1/4	G 1/8	82	43.5	65.5	108

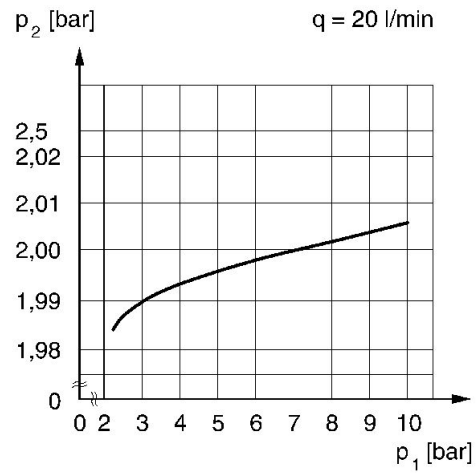
Part No.	K	M	O	R	T	T2	U	W
0821302055	47	3	54	4	17	16	30	51

### Flow rate characteristic, $p_2 = 0,05 - 5$ bar



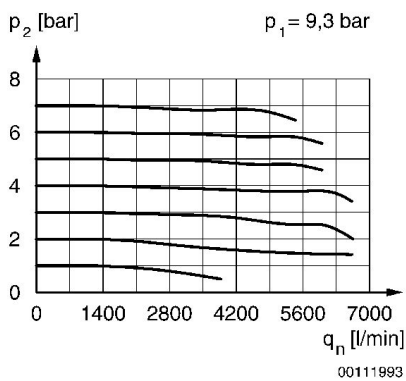
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

### Pressure characteristics curve



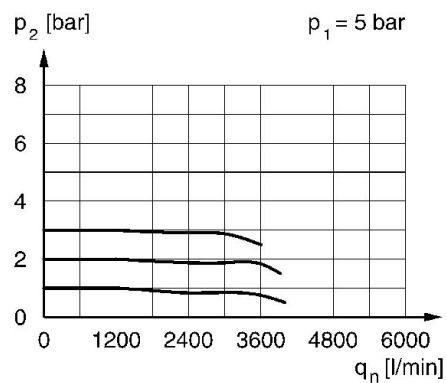
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate

### Flow rate characteristic, $p_2 = 0,05 - 7$ bar



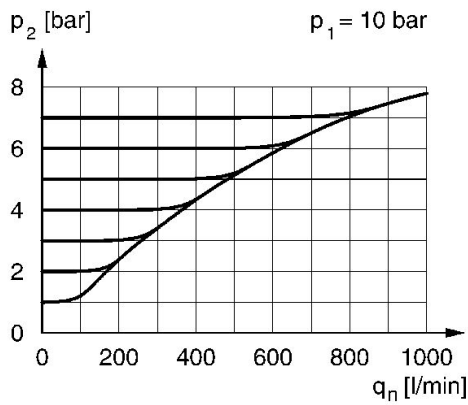
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

### Flow rate characteristic, $p_2 = 0,05 - 3$ bar



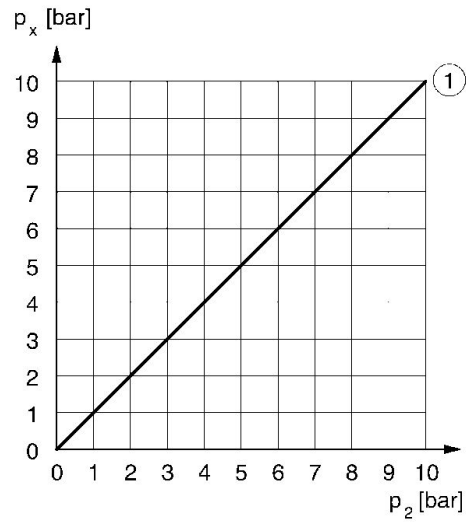
$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

exhaust characteristics (contact limit  
< 10 mbar)



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q_n$  = nominal flow

control pressure characteristic



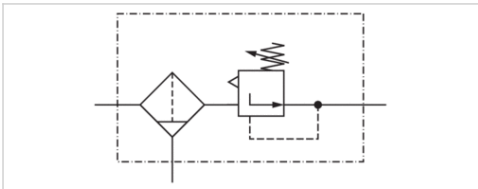
$p_x$  = control pressure  
 $p_2$  = secondary pressure  
1) Pneumatically operated



# Precision filter pressure regulator, Series PR1-FRE

- G 1/4

- filter porosity 10 µm



Version	1-part
Parts	Precision filter pressure regulator
Mounting orientation	vertical
Working pressure min./max.	0.2 ... 16 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Max. particle size	5 µm
Nominal flow Qn	750 l/min
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Filter reservoir volume	11.5 cm <sup>3</sup>
Filter element	exchangeable
Condensate drain	Manual
Max. Internal air consumption	0.01 l/min
Weight	0.975 kg

## Technical data

Part No.	Port	filter porosity	Flow	Adjustment range min./max.	Condensate drain
			Qn		
0821300410	G 1/4	10 µm	750 l/min	0.1 ... 2 bar	Manual
0821300411	G 1/4	10 µm	750 l/min	0.2 ... 5 bar	Manual

Nominal flow with secondary pressure 6.3 bar at  $\Delta p = 1$  bar

## Technical information

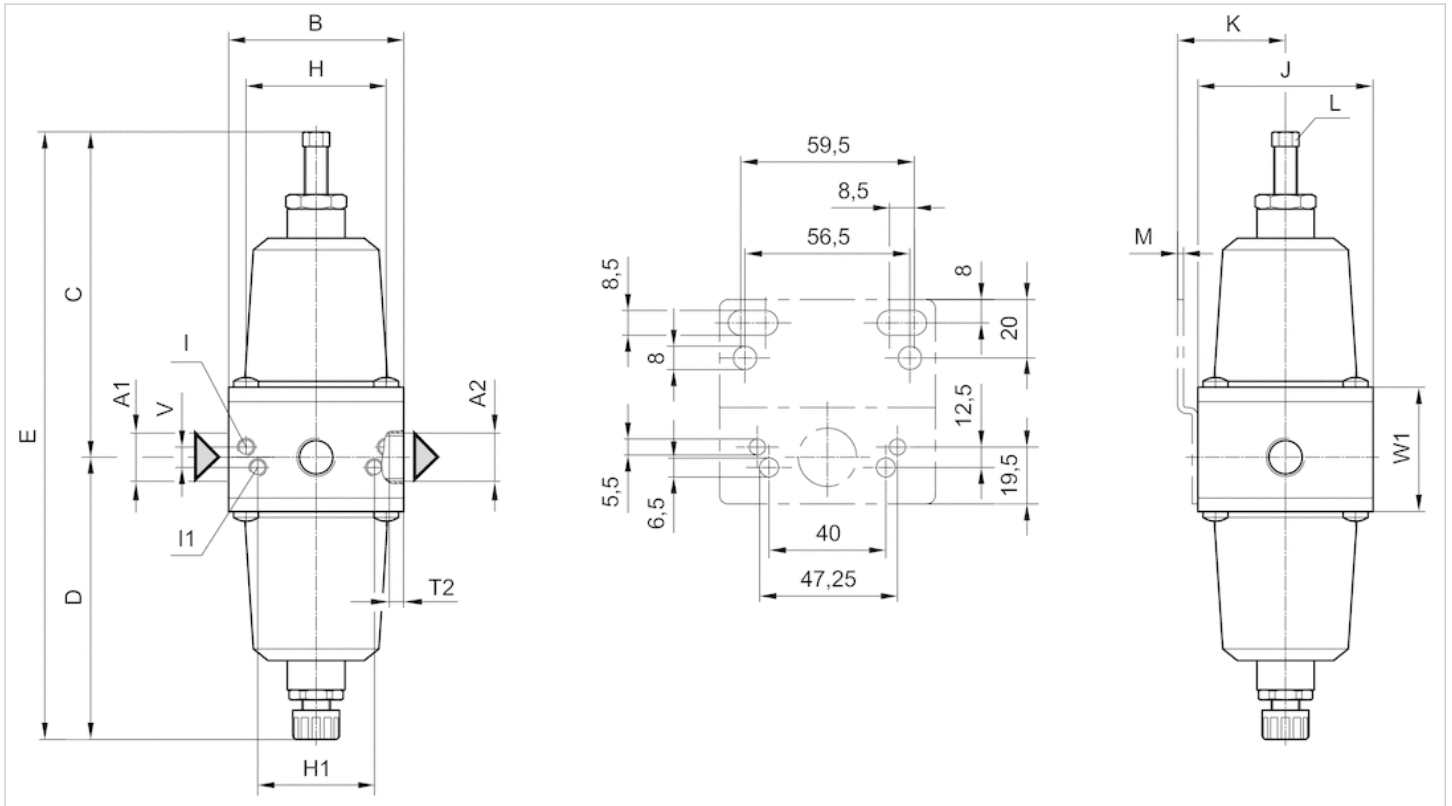
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

## Technical information

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

# Dimensions

## Dimensions



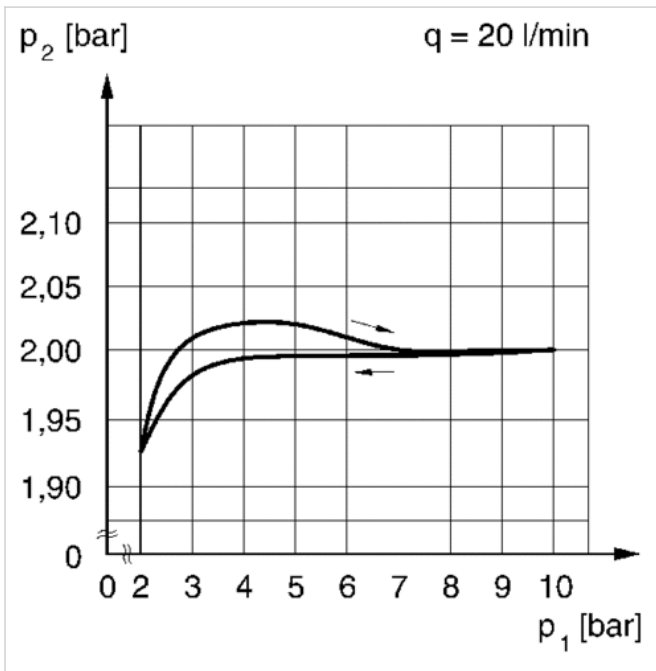
A1 = input  
A2 = output

## Dimensions in mm

A1	A2	B	C	D	E	H	H1	I	I1	J	K	L	M	T2	V	W1
G 1/4	G 1/4	60	120	96	216	48	40	M5	M6	60	37	8	2	6	7	42.5

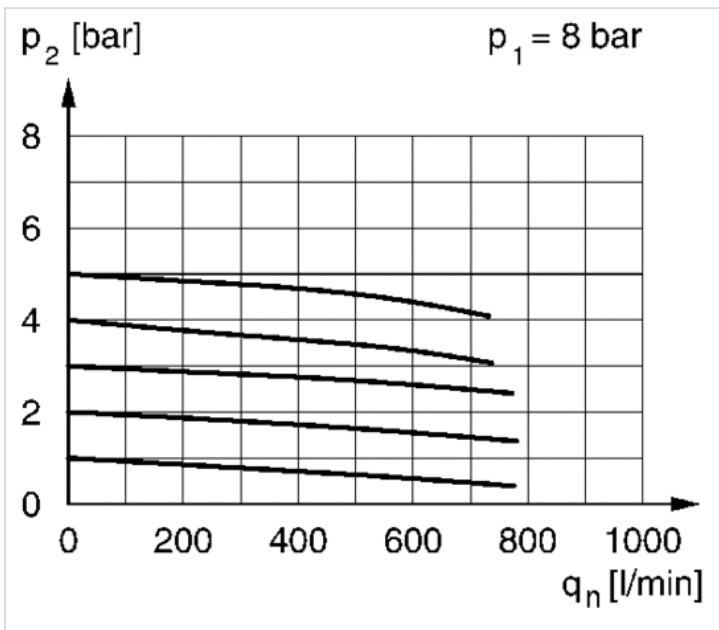
## Diagrams

### Pressure characteristics curve



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate

### Flow rate characteristic, $p_2 = 0,2 - 5$ bar



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

# Mounting bracket, Series PR1-MBR-...-W02



Weight

0.104 kg

## Technical data

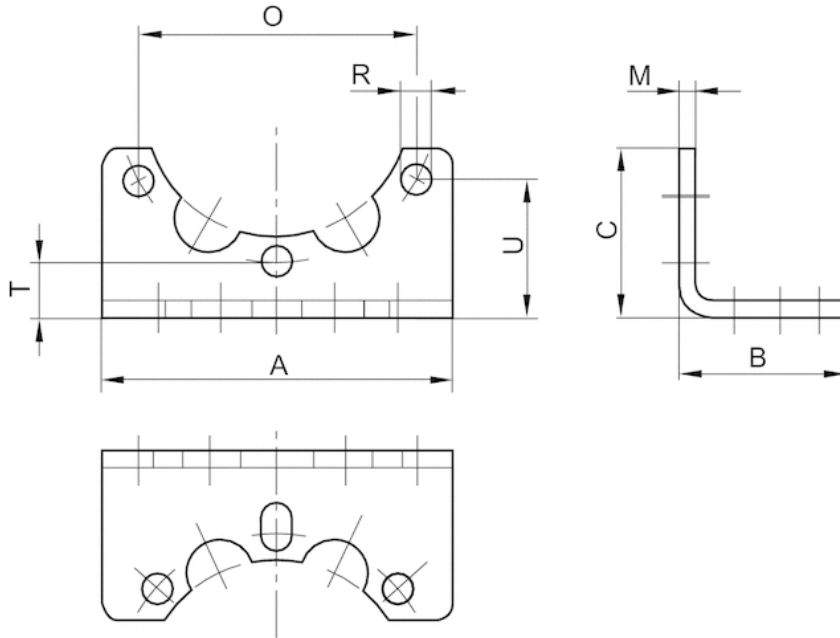
Part No.	
	1821332055
	1821332056

## Technical information

Material	
Housing	Steel, galvanized

## Dimensions

### Dimensions



## Dimensions

Part No.	A	B	C	M	O	R	T	U	Material	Surface	Weight
1821332055	76	35	35	3	54	4	17	30	Steel	galvanized	0.104 kg
1821332056	62	30	30	3	49.4	5.5	13.5	24.5	Steel	galvanized	0.104 kg

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

- for MU1, PR1



Ambient temperature min./max.

-40 ... 60 °C

## Technical data

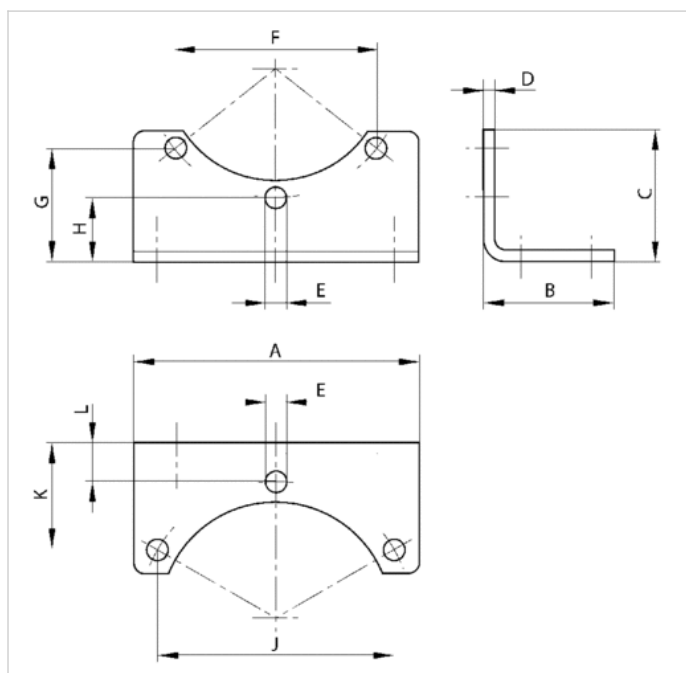
Part No.	for
R412004872	MU1, PR1

## Technical information

Material	
Housing	Steel, galvanized

## Dimensions

### Dimensions



## Dimensions

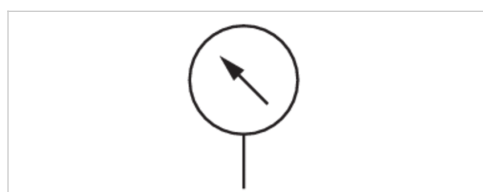
Part No.		A	B	C	D	E	F	G	H	J	K	L
R412004872	G1	76	35	35	3	5.5	53.6	30.1	17	63.2	28.8	10.5

# 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	-

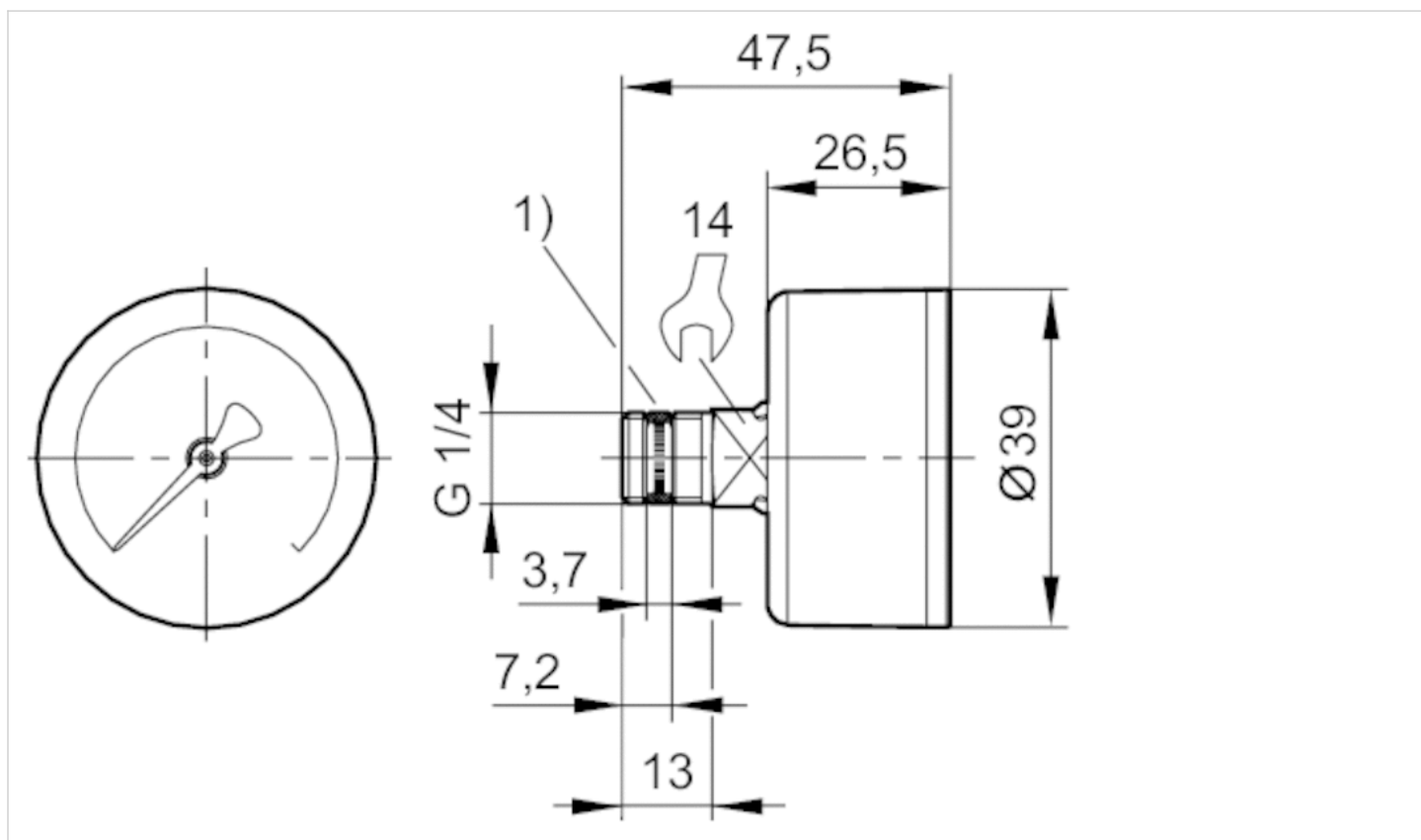
1) Suitable for use in Ex zones 1, 2, 21, 22.

## Technical information

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

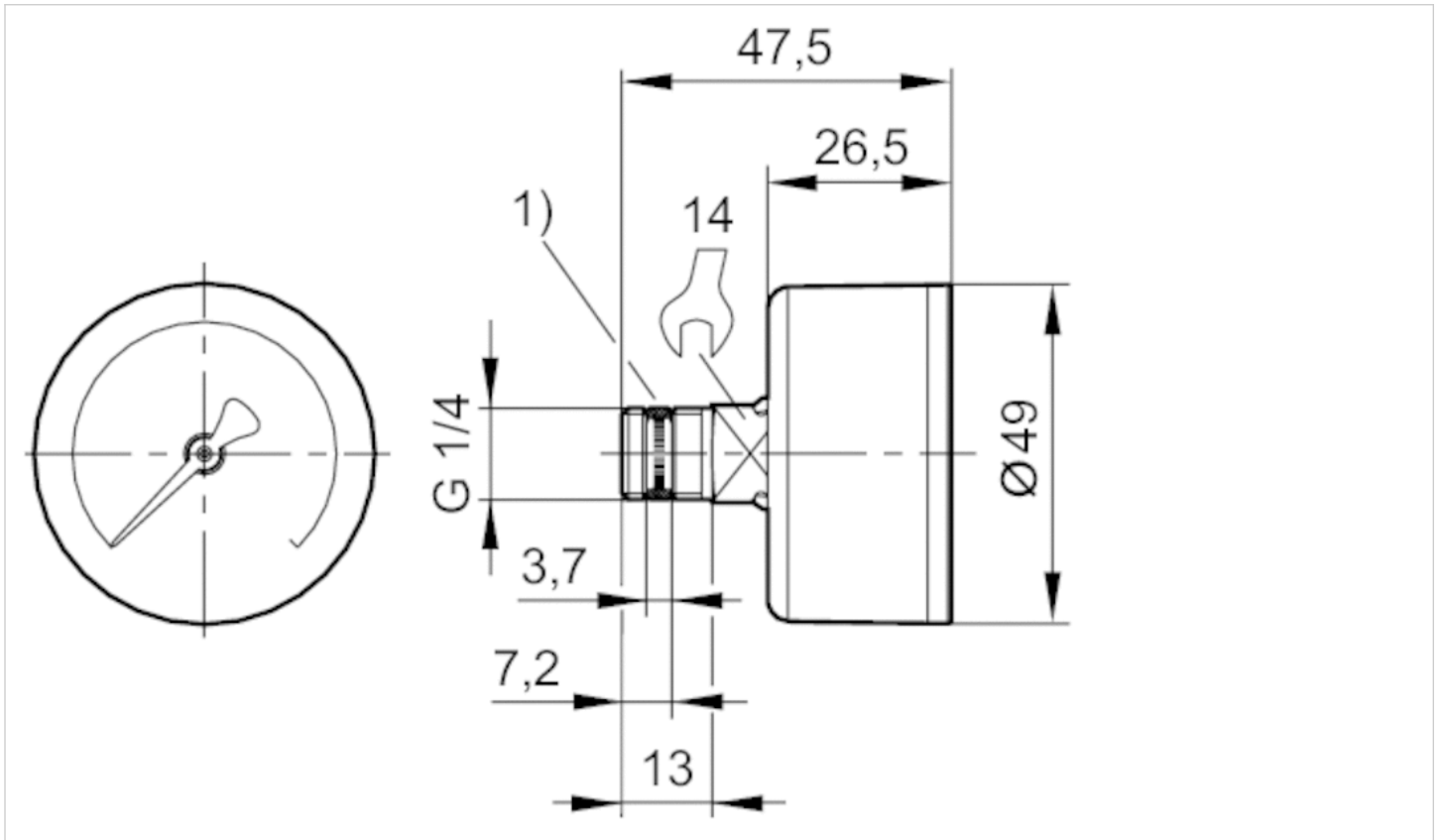
## Dimensions

Dimensions in mm, Fig. 1



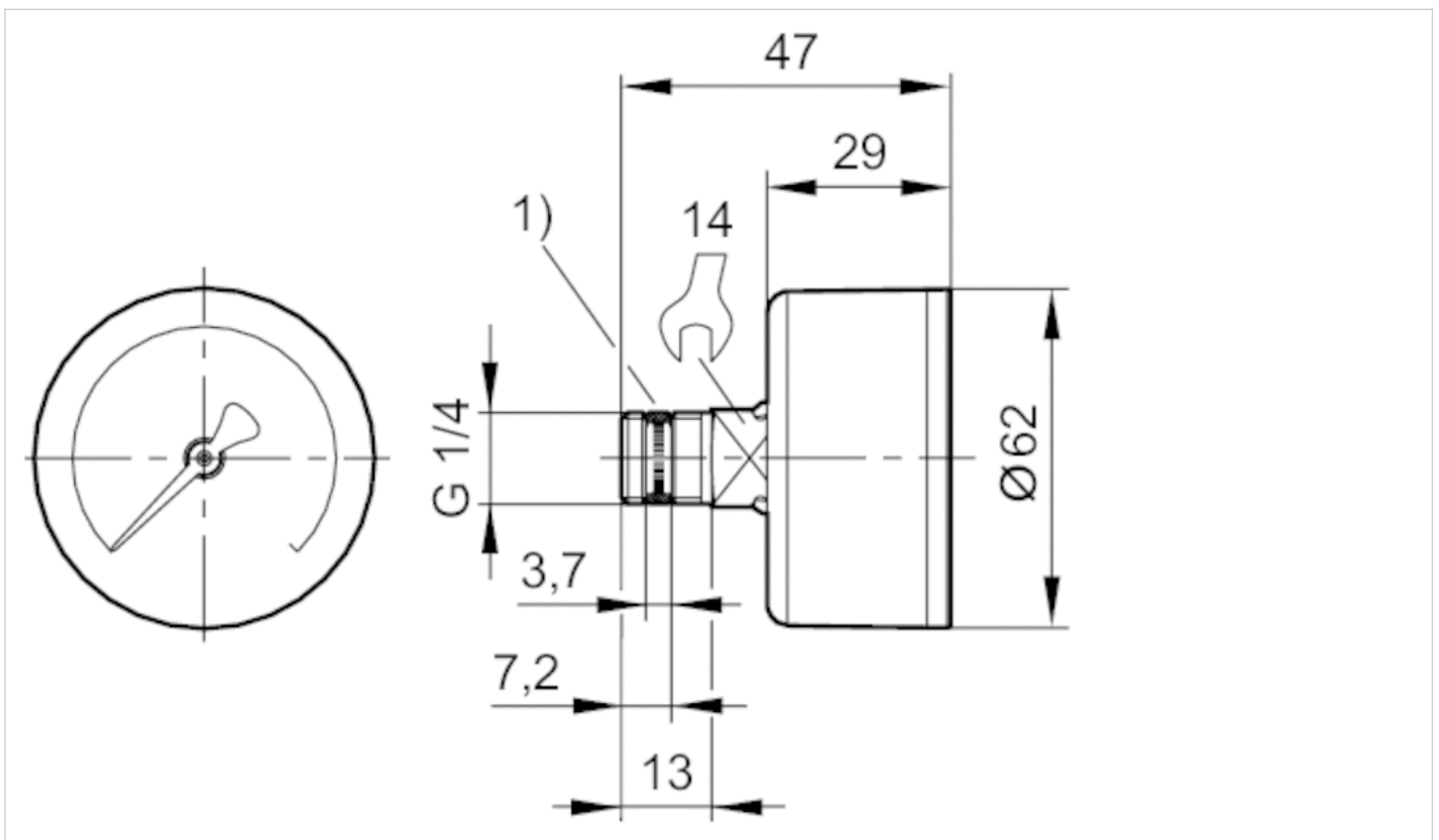
1) Gasket thread

Dimensions in mm, Fig. 2



1) Gasket thread

Dimensions in mm, Fig. 3

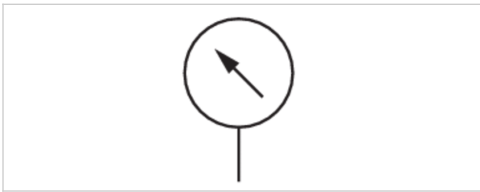


1) Gasket thread



# 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.

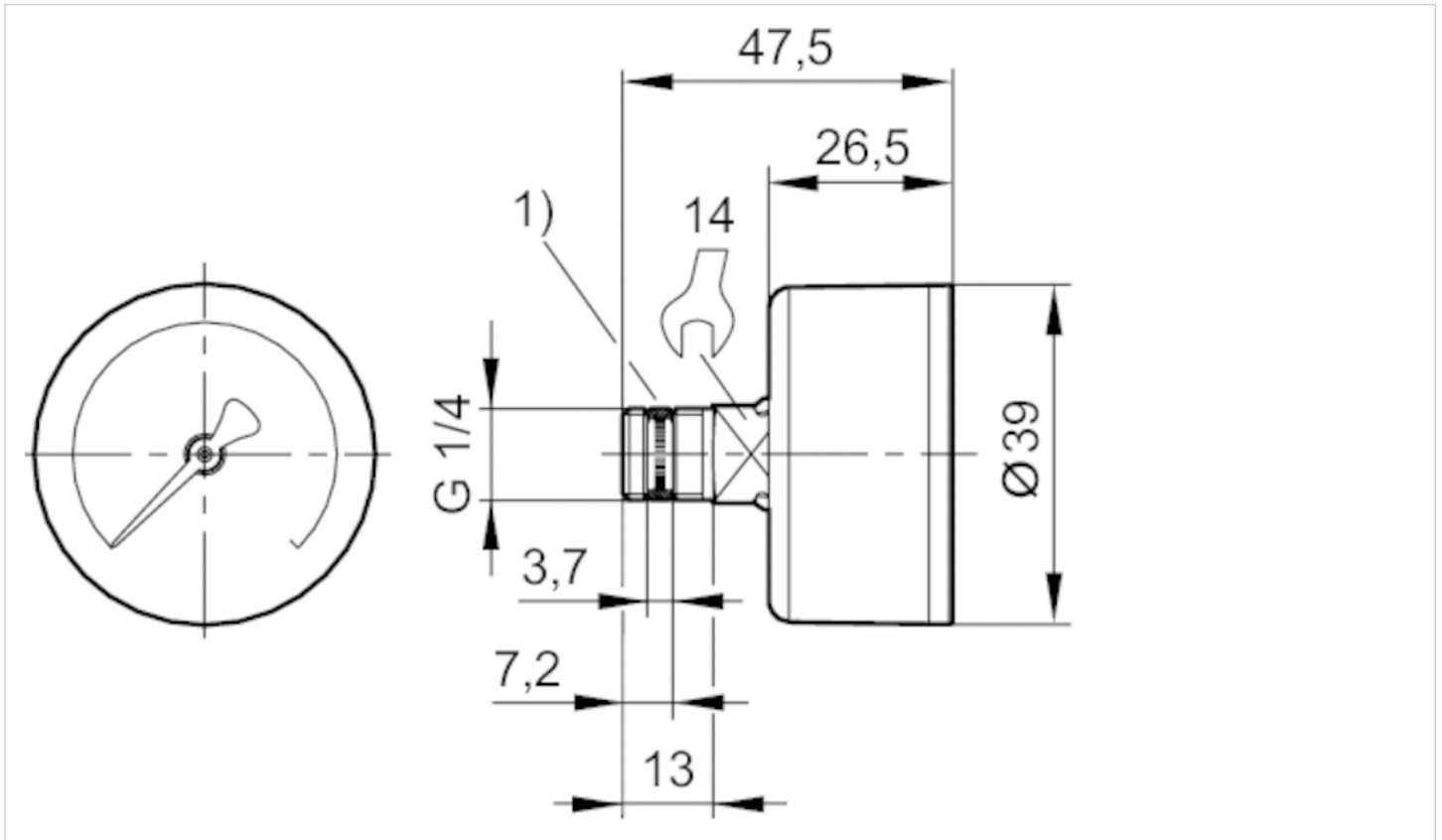
## Technical information

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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