

Preparation of compressed air ► Maintenance units and components

## Series AS1

Brochure

**Rexroth**  
Pneumatics



**Series AS1**
**Maintenance units**


Maintenance unit, 2-part, Series AS1-ACD  
 ► G 1/4 ► Air supply: left ► filter porosity: 5 µm ► With integrated pressure gauge

9



Maintenance unit, 3-part, Series AS1-ACT  
 ► G 1/4 ► Air supply: left ► filter porosity: 5 µm ► With integrated pressure gauge

12

**Pressure regulators, air supply on the left**


Pressure regulator, Series AS1-RGS  
 ► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual

15



Pressure regulator, Series AS1-RGS  
 ► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual ► with pressure gauge in hand wheel

18



Pressure regulator, Series AS1-RGS-...-E11  
 ► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual ► lockable ► with E11 locking

20



Pressure regulator, Series AS1-RGS-...-DS  
 ► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply

22



Pressure regulator, Series AS1-RGS-...-DS  
 ► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply ► with pressure gauge in hand wheel

26

**Filter pressure regulators, air supply on the left**


Filter pressure regulator, Series AS1-FRE  
 ► G 1/4 ► Air supply: left ► filter porosity: 5 µm

29



Filter pressure regulator, Series AS1-FRE-...-E11  
 ► G 1/4 ► Air supply: left ► filter porosity: 5 µm ► lockable ► with E11 locking

34

## Preparation of compressed air ▶ Maintenance units and components Series AS1

### Filter, air supply on the left



Standard filter, Series AS1-FLS  
▶ G 1/4 ▶ Air supply: left ▶ filter porosity: 5 µm

37



Pre-filter, Series AS1-FLP  
▶ G 1/4 ▶ Air supply: left ▶ filter porosity: 0.3 µm

39



Microfilter, Series AS1-FLC  
▶ G 1/4 ▶ Air supply: left ▶ filter porosity: 0.01 µm

42



Active carbon filter, Series AS1-FLA  
▶ G 1/4 ▶ Air supply: left

45

### Lubricators, air supply on the left



Micro oil-mist lubricator, Series AS1-LBM  
▶ G 1/4 ▶ Air supply: left

47

### Filling units, air supply on the left



Filling unit, electrically operated, Series AS1-SSU  
▶ G 1/4 ▶ Air supply: left ▶ pipe connection

49

### Filling valves, air supply on the left



Filling valve, pneumatically operated, Series AS1-SSV  
▶ G 1/4 ▶ Air supply: left ▶ pipe connection

52

### Shut-off valves, air supply on the left



3/2-directional valve, electrically operated, Series AS1-SOV  
▶ ATEX optional ▶ G 1/4 ▶ Air supply: left ▶ pipe connection

54












3/2-directional valve, pneumatically operated, Series AS1-SOV  
▶ G 1/4 ▶ Air supply: left ▶ pipe connection

58










Preparation of compressed air ► Maintenance units and components

**Series AS1**

	3/2-shut-off valve, mechanically operated, Series AS1-BAV ► G 1/4 ► Air supply: left	60
<b>Distributors, air supply on the left</b>		
	Distributor, Series AS1-DIS ► G 1/4 ► Air supply: left ► Distributor 2x ► Distributor	62
	Distributor, Series AS1-DIN ► G 1/4 ► Air supply: left ► Distributor 1x ► Non-return valve	64
<b>Pressure regulators, air supply on the right</b>		
	Pressure regulator, Series AS1-RGS ► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual	66
	Pressure regulator, Series AS1-RGS ► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual ► with pressure gauge in hand wheel	69
	Pressure regulator, Series AS1-RGS-...-DS ► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply	71
	Pressure regulator, Series AS1-RGS-...-DS ► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply ► with pressure gauge in hand wheel	75
<b>Filter pressure regulators, air supply on the right</b>		
	Filter pressure regulator, Series AS1-FRE ► G 1/4 ► Air supply: right ► filter porosity: 5 µm	78
<b>Filter, air supply on the right</b>		
	Standard filter, Series AS1-FLS ► G 1/4 ► Air supply: right ► filter porosity: 5 µm	83

Preparation of compressed air ► Maintenance units and components

## Series AS1

	Pre-filter, Series AS1-FLP ► G 1/4 ► Air supply: right ► filter porosity: 0.3 µm	86
	Microfilter, Series AS1-FLC ► G 1/4 ► Air supply: right ► filter porosity: 0.01 µm	89
	Active carbon filter, Series AS1-FLA ► G 1/4 ► Air supply: right	92
<b>Lubricators, air supply on the right</b>		
	Micro oil-mist lubricator, Series AS1-LBM ► G 1/4 ► Air supply: right	94
<b>Filling valves, air supply on the right</b>		
	Filling valve, pneumatically operated, Series AS1-SSV ► G 1/4 ► Air supply: right ► pipe connection	96
<b>Shut-off valves, air supply on the right</b>		
	3/2-directional valve, electrically operated, Series AS1-SOV ► ATEX optional ► G 1/4 ► Air supply: right ► pipe connection	98
	3/2-directional valve, pneumatically operated, Series AS1-SOV ► G 1/4 ► Air supply: right ► pipe connection	102
	3/2-shut-off valve, mechanically operated, Series AS1-BAV ► G 1/4 ► Air supply: right	104
<b>Distributor, air supply on the right</b>		
	Distributor, Series AS1-DIS ► G 1/4 ► Air supply: right ► Distributor 2x ► Distributor	106

Preparation of compressed air ► Maintenance units and components

**Series AS1**

	Distributor, Series AS1-DIN ► G 1/4 ► Air supply: right ► Distributor 1x ► Non-return valve	108
<b>Accessories</b>		
	Reservoir, Series AS1-CLS ► Material: Polycarbonate, Die cast zinc	110
	Reservoir, Series NL1/AS1-CBM/-CLA ► for active carbon filter and lubricator ► Material: Polycarbonate, Die cast zinc	111
	Protective guard ► Series NL1 ► Filter, Lubricator	112
	Mounting plate, Series AS1-MBR-...-W01	113
	Mounting bracket, Series AS1-MBR-...-W02	114
	Mounting clip, Series AS1-MBR-...-W03	115
	Block assembly kit, Series AS1-MBR-...-W04	116
	Block assembly kit, Series AS1-MBR-...-W05	117
	Panel nut	118

Preparation of compressed air ► Maintenance units and components

## Series AS1

	Block assembly kit, Series AS1/AS2-MBR-...-W07	119
	Pressure gauge, Series PG1-INT ► flange version ► Background color: White ► Scale color: Black ► Viewing window: Polycarbonate ► Units: bar	120
	Pressure gauge, Series PG1-SAS ► Front port ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi ► suitable for ATEX	121
	Adapter, Series CN1 ► Form C, ISO 15217/M 12	122
	Transition plate, Series AS1, AS2, AS3, AS5 ► with CNOMO porting configuration	123
	Transition plate, Series AS1 ► Transition plate for assembling a pressure gauge with connection thread G 1/8	123
	Connecting cable, Series CN2 ► Socket, M12x1, 5-pin, A-coded, angled ► without wire end ferrule, tin-plated, 4-pin ► for CANopen, DeviceNet	124
	Connecting cable, Series CN2 ► Socket, M12x1, 5-pin, A-coded, straight ► without wire end ferrule, tin-plated, 4-pin ► for CANopen, DeviceNet	125
	Mounting aid ► Assembly aid for permanent actuation of manual override ("press") on pilot valve DO16 with electrical push-in fitting, form C.	126
	Mounting aid ► Assembly aid for permanent actuation of manual override ("press") on pilot valve DO16 with electrical connection M12x1.	127

Preparation of compressed air ► Maintenance units and components

**Series AS1**

Key for E11 locking



127



## Preparation of compressed air ► Maintenance units and components

### Maintenance unit, 2-part, Series AS1-ACD

► G 1/4 ► Air supply: left ► filter porosity: 5 µm ► With integrated pressure gauge

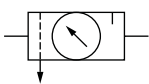


00137267

Version	2-in-1, Can be assembled into blocks
Parts	Filter pressure regulator, Lubricator
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 8 bar
Pressure supply	single
Filter reservoir volume	16 cm³
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	35 cm³
Type of filling	Manual oil filling
Oil type	HLP 32 (DIN 51 524 - ISO VG 32) HLP 68 (DIN 51 524 - ISO VG 68)
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Cellpor

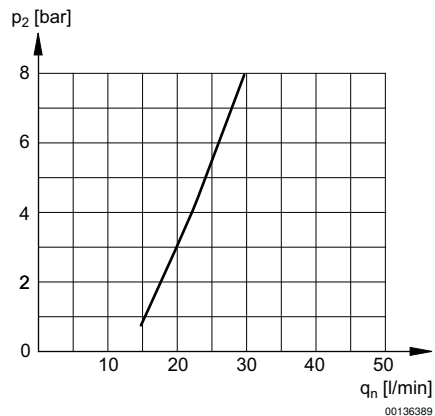
#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Oil dosing at 1000 l/min [drops/min]: 10-20
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 6

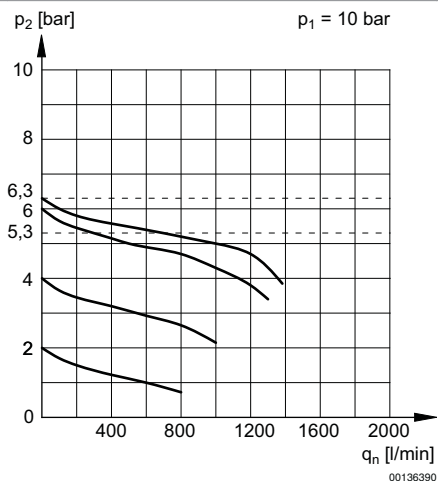
	Port	Qn [l/min]	Condensate drain	Weight [kg]	Part No.
	G 1/4	700	semi-automatic, open without pressure fully automatic, open without pressure fully automatic, closed without pressure	0.504 0.522 0.522	<b>R412014672</b> <b>R412014673</b> R412014674
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar					

**Maintenance unit, 2-part, Series AS1-ACD**

▶ G 1/4 ▶ Air supply: left ▶ filter porosity: 5 µm ▶ With integrated pressure gauge

**Lubricator activation margin**


p2 = secondary pressure  
qn = nominal flow

**Flow rate characteristic**


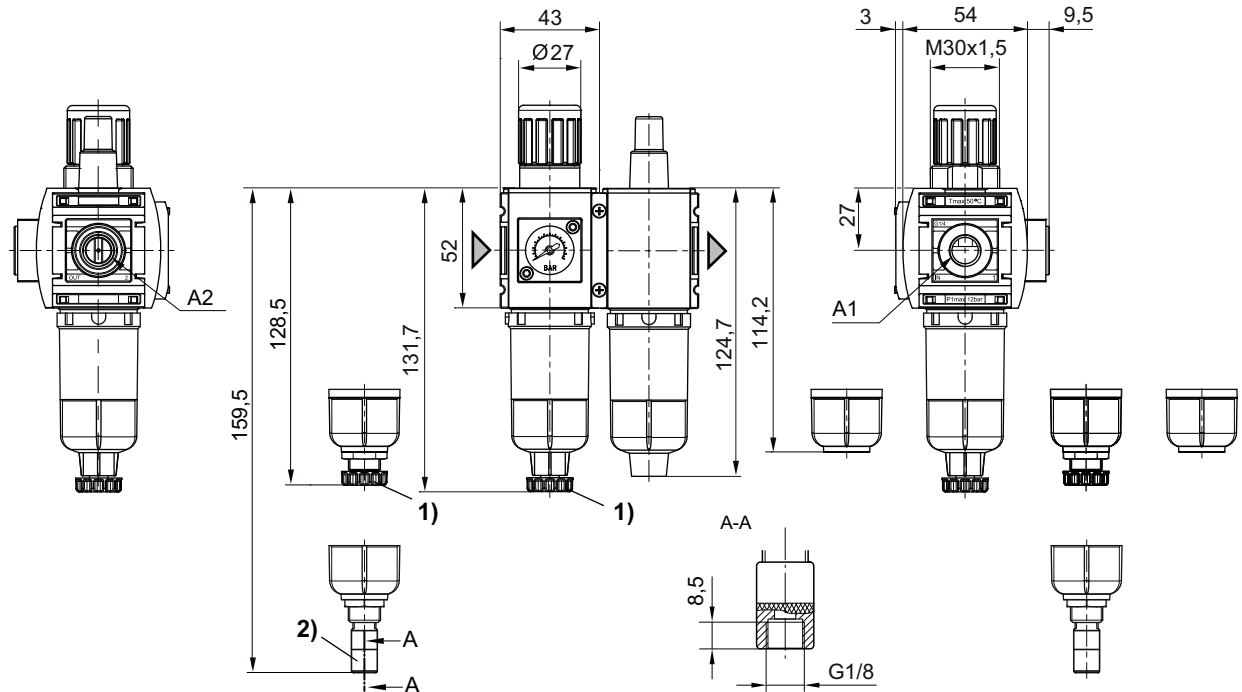
p1 = Working pressure  
p2 = Secondary pressure  
qn = Nominal flow

## Preparation of compressed air ► Maintenance units and components

### Maintenance unit, 2-part, Series AS1-ACD

► G 1/4 ► Air supply: left ► filter porosity: 5 µm ► With integrated pressure gauge

#### Dimensions



- A1 = input  
A2 = output  
1) Semi-automatic condensate drain  
2) Fully automatic condensate drain

00137164

Maintenance unit, 3-part, Series AS1-ACT


▶ G 1/4 ▶ Air supply: left ▶ filter porosity: 5 µm ▶ With integrated pressure gauge



00137269

Version	3-part, Can be assembled into blocks
Parts	Filter, Pressure controller, Lubricator
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 8 bar
Pressure supply	single
Filter reservoir volume	16 cm³
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	35 cm³
Type of filling	Manual oil filling
Oil type	HLP 32 (DIN 51 524 - ISO VG 32) HLP 68 (DIN 51 524 - ISO VG 68)
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Reservoir	Polycarbonate
Filter insert	Cellpor

Technical Remarks	
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.	
■ Oil dosing at 1000 l/min [drops/min]: 10-20	
■ solid impurities in the compressed air at the outlet as per ISO 8573-1: class 6	

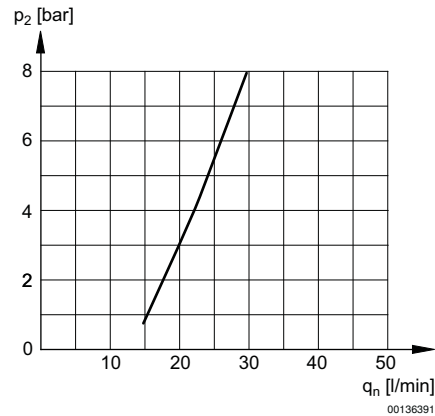
	Port	Qn	Condensate drain	Weight	Part No.
		[l/min]		[kg]	
	G 1/4	480	semi-automatic, open without pressure	0.628	<b>R412014675</b>
			fully automatic, open without pressure	0.646	R412014676
			fully automatic, closed without pressure	0.646	R412014677
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar					

Preparation of compressed air ► Maintenance units and components

**Maintenance unit, 3-part, Series AS1-ACT**

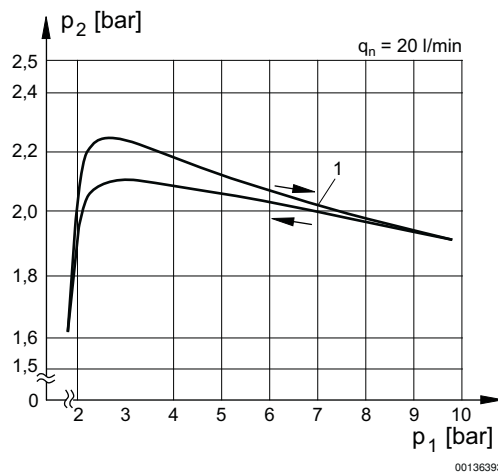
► G 1/4 ► Air supply: left ► filter porosity: 5 µm ► With integrated pressure gauge

**Lubricator activation margin**



p2 = secondary pressure  
qn = nominal flow

**Pressure characteristics curve**

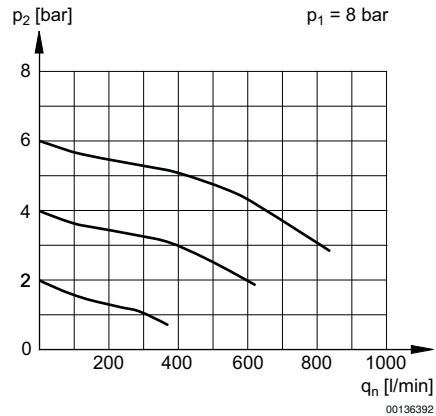


p1 = Working pressure  
p2 = Secondary pressure  
qn = Nominal flow  
1) = Starting point

## Maintenance unit, 3-part, Series AS1-ACT

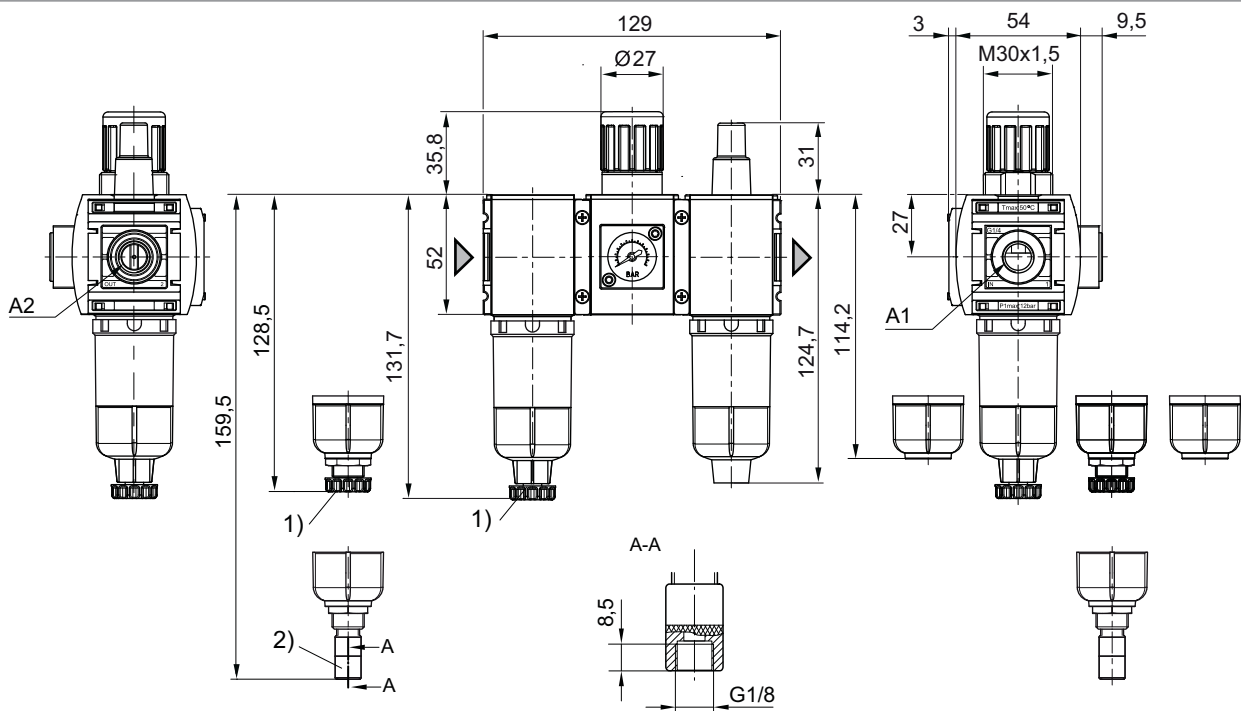
► G 1/4 ► Air supply: left ► filter porosity: 5 µm ► With integrated pressure gauge

### Flow rate characteristic



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

## Dimensions



A1 = input  
A2 = output  
1) Semi-automatic condensate drain  
2) Fully automatic condensate drain

00137165

**Preparation of compressed air ► Maintenance units and components**

**Pressure regulator, Series AS1-RGS**

► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual



00137239

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

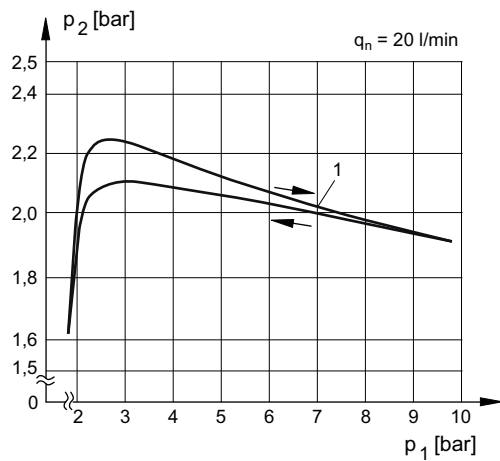
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Fig.	Note	Part No.
			[l/min]	[bar]	[bar]	[kg]			
		G 1/4	1000	0.2 / 12	0.2 - 4	0.209	Fig. 1	1)	<b>R412014627</b>
				0.5 / 12	0.5 - 8				<b>R412014628</b>
				0.5 / 12	0.5 - 10				<b>R412014629</b>
	-	G 1/4	1000	0.2 / 12	0.2 - 4	0.206	Fig. 2	2)	<b>R412014633</b>
				0.5 / 12	0.5 - 8				<b>R412014634</b>
				0.5 / 12	0.5 - 10				<b>R412014635</b>

1) Pressure gauge enclosed separately  
2) Order pressure gauge separately  
Max. pressure gauge Ø in blocked state: 40  
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

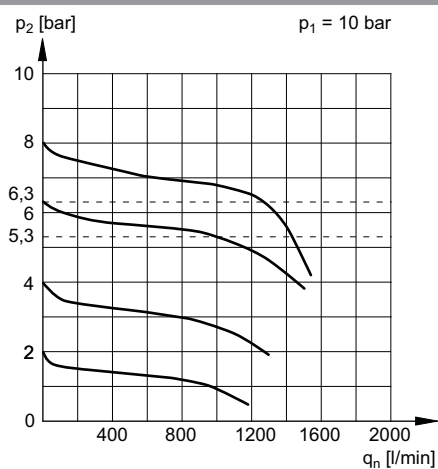
**Pressure regulator, Series AS1-RGS**

 ► G 1/4 ► Air supply: left ►  $Q_n = 1000 \text{ l/min}$  ► Activation: manual

**Pressure characteristics curve**


00137180

$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 1) = Starting point

**Flow rate characteristic**


00137179

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

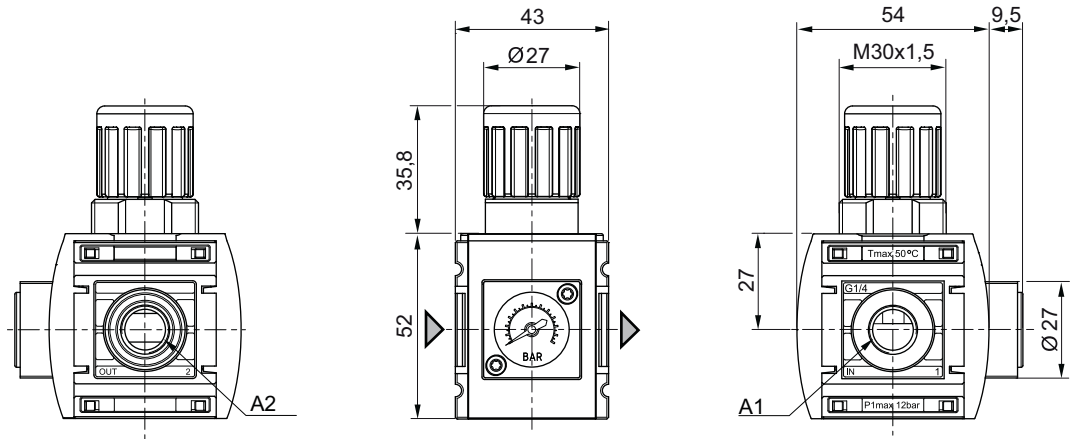


## Preparation of compressed air ► Maintenance units and components

### Pressure regulator, Series AS1-RGS

► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual

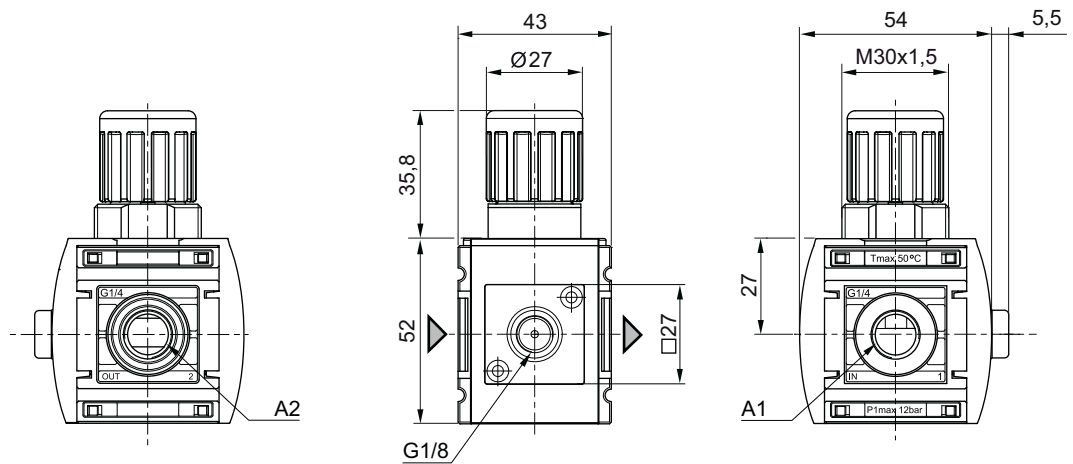
Dimensions, Fig. 1



00137162

A1 = input  
A2 = output

Dimensions, Fig. 2



00138457

A1 = input  
A2 = output

Pressure regulator, Series AS1-RGS

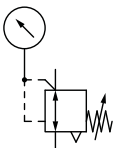

▶ G 1/4 ▶ Air supply: left ▶ Qn= 1000 l/min ▶ Activation: manual ▶ with pressure gauge in hand wheel



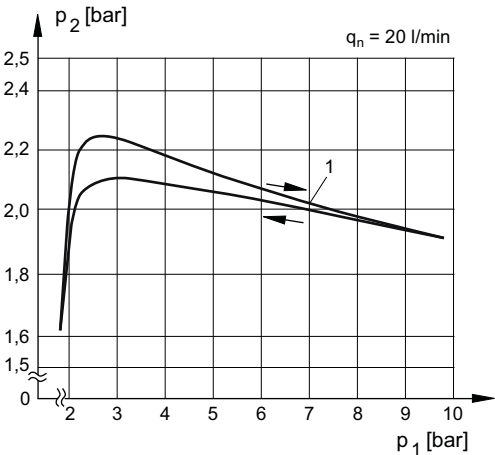
00137238

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

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

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
			[l/min]	[bar]	[bar]	[kg]	
		G 1/4	1000	0.2 / 12	0.2 - 4	0.239	R412014639
				0.5 / 12	0.5 - 8		<b>R412014640</b>
				0.5 / 12	0.5 - 10		<b>R412014641</b>
Panel nut included in scope of delivery Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar							

Pressure characteristics curve



00137180

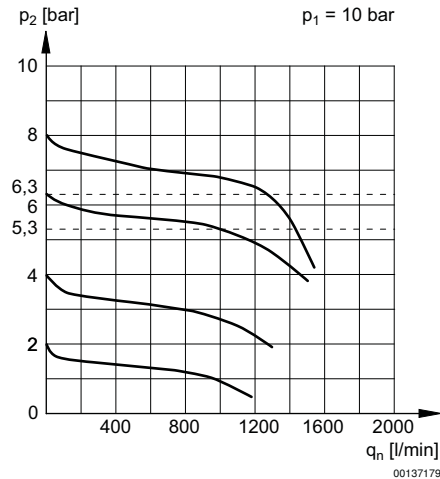
p1 = Working pressure  
p2 = Secondary pressure  
qn = Nominal flow  
1) = Starting point

Preparation of compressed air ► Maintenance units and components

**Pressure regulator, Series AS1-RGS**

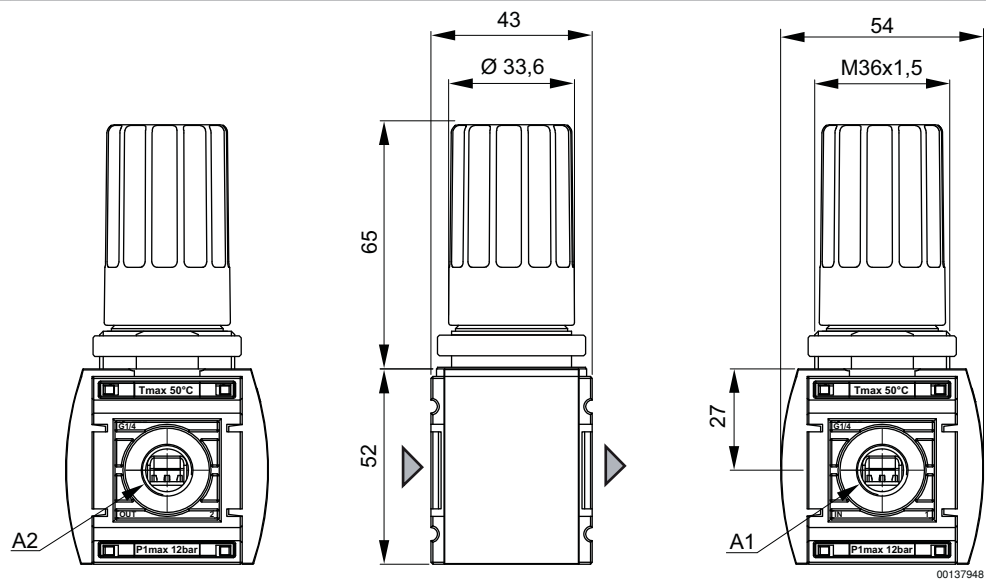
► G 1/4 ► Air supply: left ►  $Q_n = 1000$  l/min ► Activation: manual ► with pressure gauge in hand wheel

Flow rate characteristic



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

Dimensions



A1 = input  
 A2 = output  
 Panel nut included in scope of delivery

**Pressure regulator, Series AS1-RGS-...-E11**
**▶ G 1/4 ▶ Air supply: left ▶ Qn= 1000 l/min ▶ Activation: manual ▶ lockable ▶ with E11 locking**


00015786

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

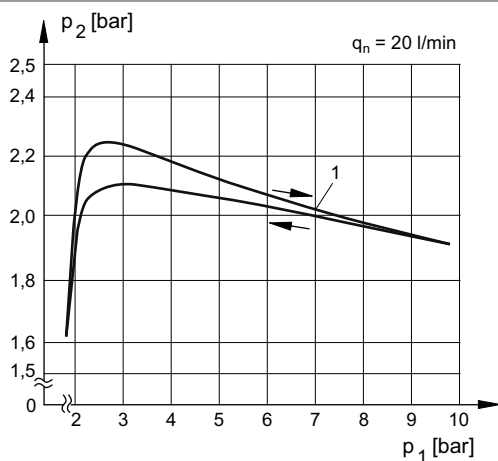
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The E11 locking is delivered without a key (see accessories for keys).

	Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
		[l/min]	[bar]	[bar]	[kg]	
	G 1/4	1000	0.5 / 12	0.5 - 10	0.206	<b>R412010648</b>
			0.2 / 12	0.2 - 4		R412010649

Max. pressure gauge Ø in blocked state: 40

Order pressure gauge separately

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

**Pressure characteristics curve**


00137180

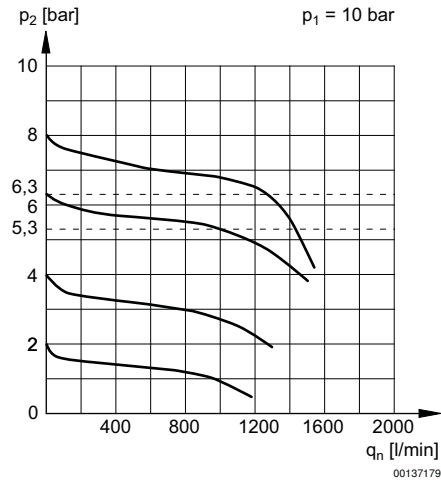
p1 = Working pressure  
 p2 = Secondary pressure  
 qn = Nominal flow  
 1) = Starting point

Preparation of compressed air ► Maintenance units and components

**Pressure regulator, Series AS1-RGS-...-E11**

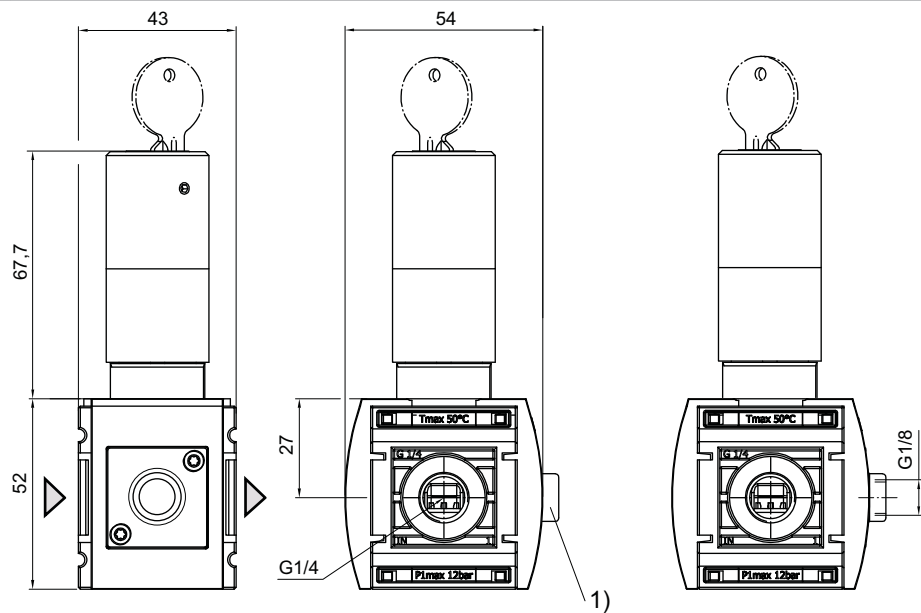
► G 1/4 ► Air supply: left ►  $Q_n = 1000$  l/min ► Activation: manual ► lockable ► with E11 locking

Flow rate characteristic



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

Dimensions



1) Adapter  
 Order pressure gauge separately

**Pressure regulator, Series AS1-RGS-...-DS**
**► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply**


00137239

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

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

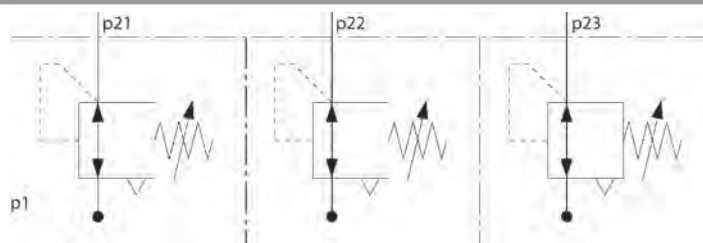
		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Fig.	Note	Part No.
			[l/min]	[bar]	[bar]	[kg]			
		G 1/4	1000	0.2 / 12	0.2 - 4	0.209	Fig. 1	1)	R412014630
				0.5 / 12	0.5 - 8				R412014631
				0.5 / 12	0.5 - 10				R412014632
	-	G 1/4	1000	0.1 / 12	0.1 - 1	0.206	Fig. 2	2)	<b>R412010558</b>
				0.2 / 12	0.2 - 4				R412014636
				0.5 / 12	0.5 - 8				R412014637
				0.5 / 12	0.5 - 10				R412014638

1) Pressure gauge enclosed separately

2) Order pressure gauge separately

Max. pressure gauge Ø in blocked state: 40

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

**Application example**


00108090

p1 = working pressure

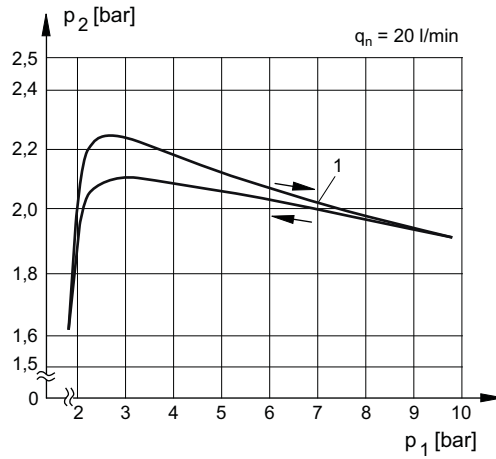
p21; p22; p23 = secondary pressure

Preparation of compressed air ► Maintenance units and components

**Pressure regulator, Series AS1-RGS-...-DS**

► G 1/4 ► Air supply: left ►  $Q_n = 1000$  l/min ► Activation: manual ► with continuous pressure supply

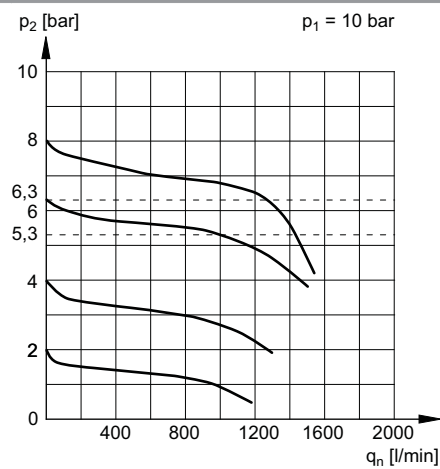
Pressure characteristics curve



00137180

$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 1) = Starting point

Flow rate characteristic

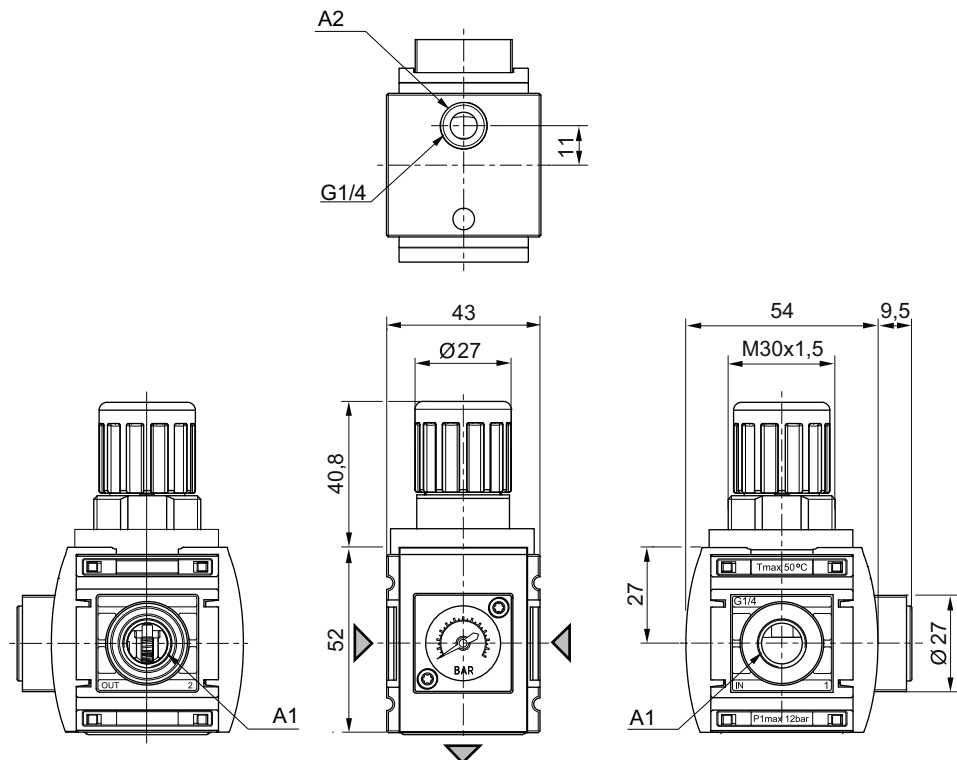


00137179

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

**Pressure regulator, Series AS1-RGS-...-DS**

▶ G 1/4 ▶ Air supply: left ▶ Qn= 1000 l/min ▶ Activation: manual ▶ with continuous pressure supply

**Dimensions, Fig. 1**


A1 = input  
A2 = output

00137161

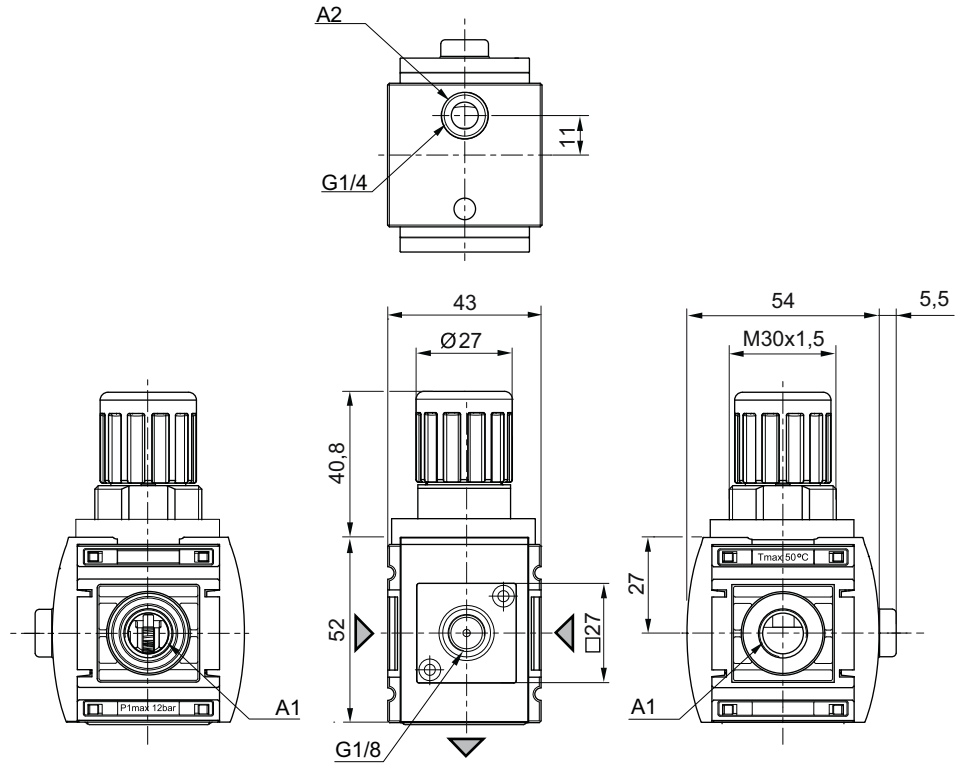


## Preparation of compressed air ► Maintenance units and components

### Pressure regulator, Series AS1-RGS-...-DS

► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply

Dimensions, Fig. 2



A1 = input  
A2 = output

00138459

**Pressure regulator, Series AS1-RGS-...-DS**

► G 1/4 ► Air supply: left ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply ► with pressure gauge in hand wheel



00137238

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

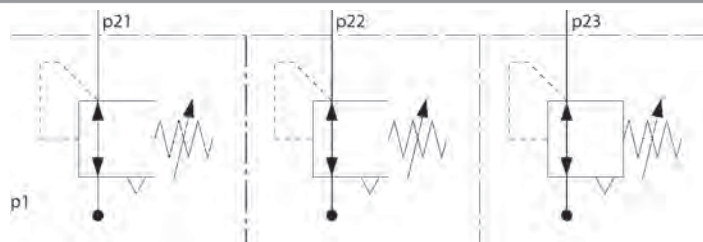
**Technical Remarks**

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

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
			[l/min]	[bar]	[bar]	[kg]	
		G 1/4	1000	0.2 / 12	0.2 - 4	0.239	R412014642
				0.5 / 12	0.5 - 8		<b>R412014643</b>
				0.5 / 12	0.5 - 10		<b>R412014644</b>

Panel nut included in scope of delivery

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

**Application example**


00108090

p1 = working pressure

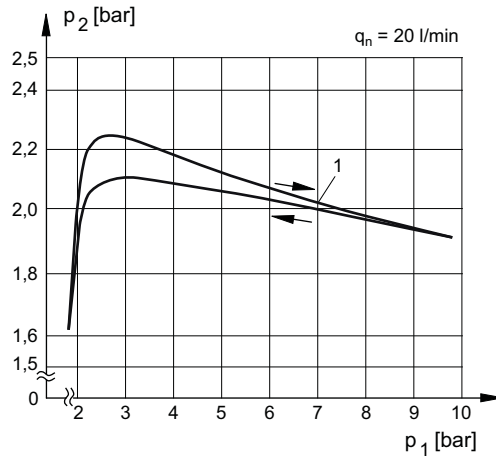
p21; p22; p23 = secondary pressure

Preparation of compressed air ► Maintenance units and components

**Pressure regulator, Series AS1-RGS-...-DS**

► G 1/4 ► Air supply: left ►  $Q_n = 1000$  l/min ► Activation: manual ► with continuous pressure supply ► with pressure gauge in hand wheel

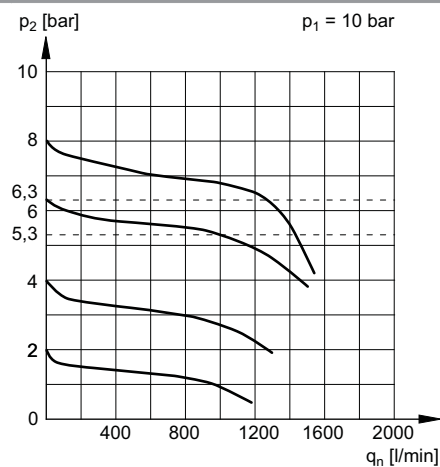
Pressure characteristics curve



00137180

$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 1) = Starting point

Flow rate characteristic

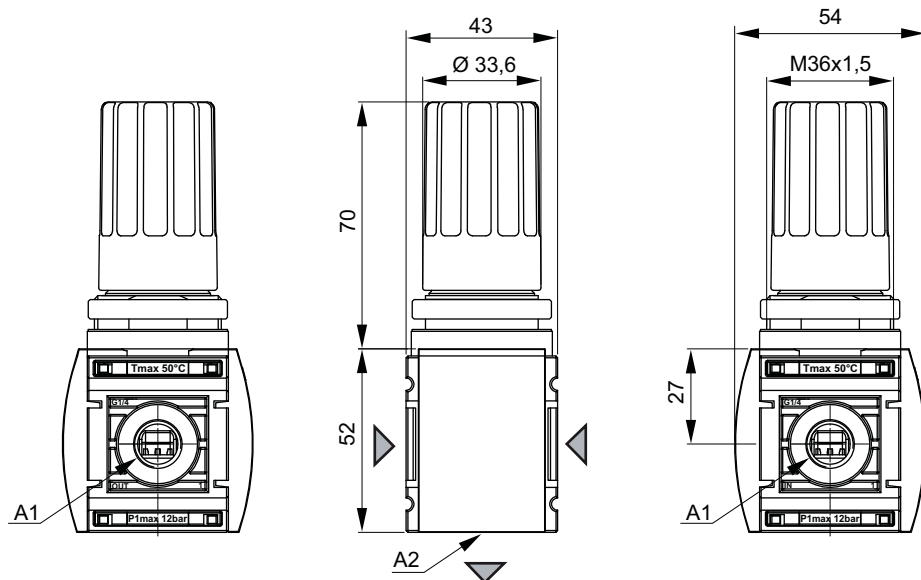


00137179

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

**Pressure regulator, Series AS1-RGS-...-DS**

▶ G 1/4 ▶ Air supply: left ▶ Qn= 1000 l/min ▶ Activation: manual ▶ with continuous pressure supply ▶ with pressure gauge in hand wheel

**Dimensions**


00137949

A1 = input  
A2 = output  
Panel nut included in scope of delivery

Preparation of compressed air ► Maintenance units and components

**Filter pressure regulator, Series AS1-FRE**

► G 1/4 ► Air supply: left ► filter porosity: 5 µm



00137251

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
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	16 cm <sup>3</sup>
Filter element	exchangeable
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	Cellpor

**Technical Remarks**

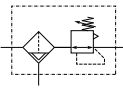
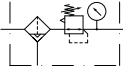

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 6

		Port	Qn	Adjustment range min./max.	Condensate drain	Weight	Fig.	Note	Part No.
			[l/min]	[bar]		[kg]			
		G 1/4	1000	0.5 / 8	semi-automatic, open without pressure	0.241	Fig. 1	1); 4)	<b>R412014645</b>
					fully automatic, open without pressure	0.259		1); 4)	<b>R412014646</b>
					fully automatic, closed without pressure	0.259		1); 4)	R412014647
					semi-automatic, open without pressure	0.274		1); 4); 6)	<b>R412014648</b>
					semi-automatic, open without pressure	0.318		1); 5)	R412014649
					fully automatic, open without pressure	0.33		1); 5)	R412014650
					fully automatic, closed without pressure	0.33		1); 5)	R412014651

- 1) Pressure gauge enclosed separately
  - 2) Order pressure gauge separately
  - 3) Max. pressure gauge Ø in blocked state: 40
  - 4) Reservoir: Polycarbonate
  - 5) Reservoir: Die cast zinc
  - 6) Protective guard: metal
- Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

**Filter pressure regulator, Series AS1-FRE**

► G 1/4 ► Air supply: left ► filter porosity: 5 µm

		Port	Qn	Adjustment range min./max.	Condensate drain	Weight	Fig.	Note	Part No.
			[l/min]	[bar]		[kg]			
	-	G 1/4	1000	0.5 / 8	semi-automatic, open without pressure	0.238	Fig. 2	2); 3); 4)	<b>R412014652</b>
					fully automatic, open without pressure	0.256			<b>R412014653</b>
					fully automatic, closed without pressure	0.256			R412014654
 		G 1/4	1000	0.5 / 10	semi-automatic, open without pressure	0.241	Fig. 1	1); 4)	<b>R412014655</b>
					fully automatic, open without pressure	0.259			<b>R412014656</b>
					fully automatic, closed without pressure	0.259		1); 4)	R412014657
					semi-automatic, open without pressure	0.274		1); 4); 6)	<b>R412014658</b>
					semi-automatic, open without pressure	0.318		1); 5)	R412014659
					fully automatic, open without pressure	0.33		1); 5)	R412014660
					fully automatic, closed without pressure	0.33		1); 5)	R412014661

1) Pressure gauge enclosed separately

2) Order pressure gauge separately

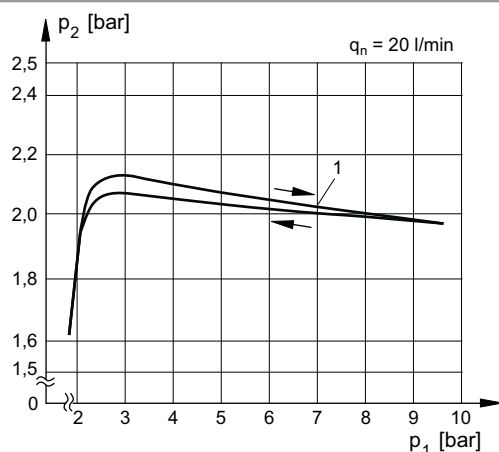
3) Max. pressure gauge Ø in blocked state: 40

4) Reservoir: Polycarbonate

5) Reservoir: Die cast zinc

6) Protective guard: metal

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

**Pressure characteristics curve**


p<sub>1</sub> = Working pressure  
 p<sub>2</sub> = Secondary pressure  
 qn = Nominal flow  
 1) = Starting point

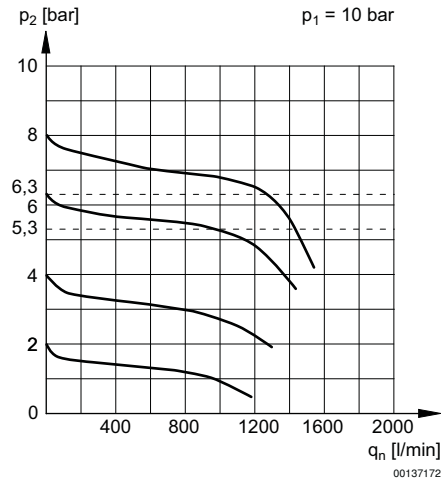
00137173

Preparation of compressed air ► Maintenance units and components

**Filter pressure regulator, Series AS1-FRE**

► G 1/4 ► Air supply: left ► filter porosity: 5 µm

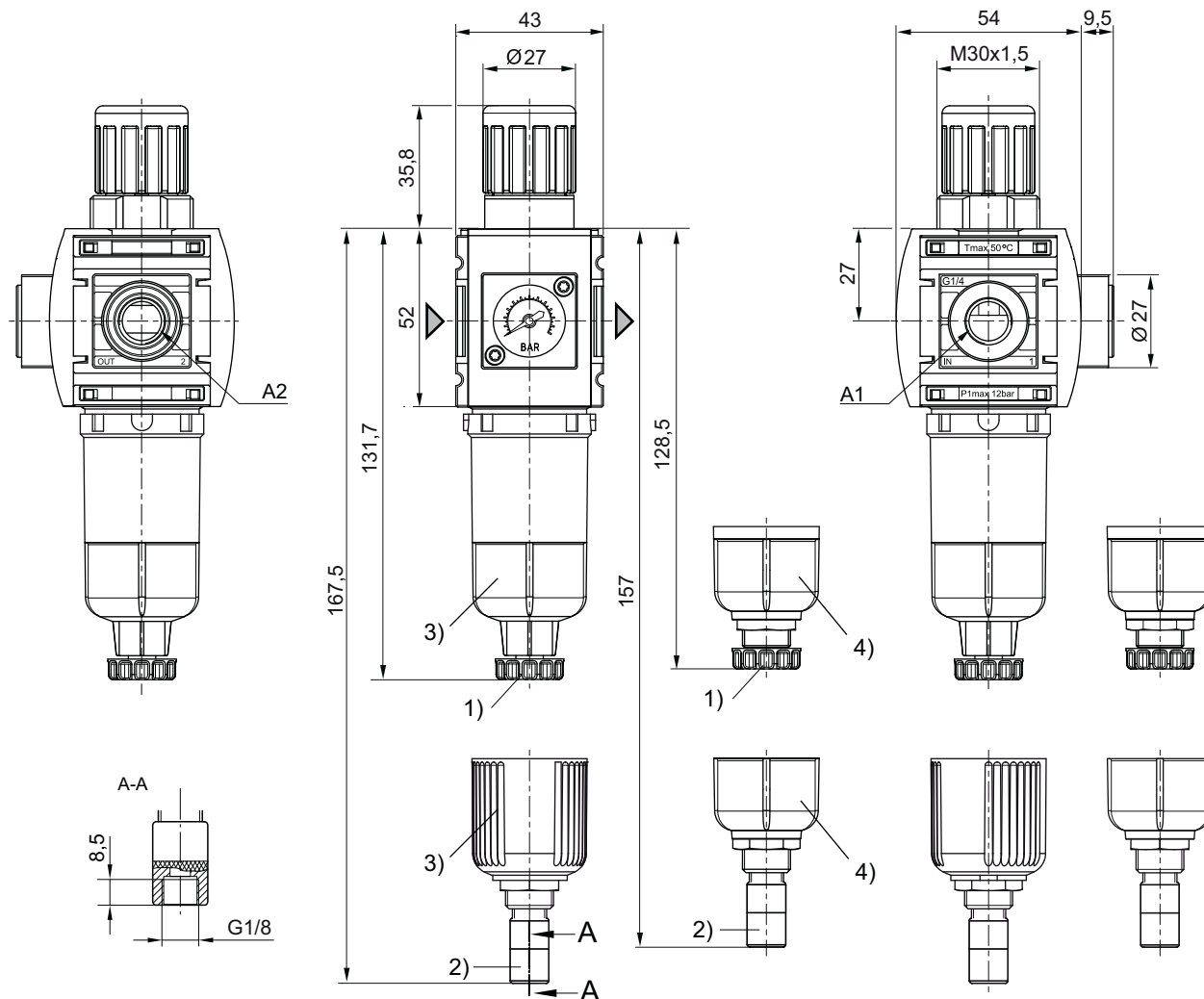
Flow rate characteristic



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

**Filter pressure regulator, Series AS1-FRE**

► G 1/4 ► Air supply: left ► filter porosity: 5 µm

**Dimensions, Fig. 1**


00137155

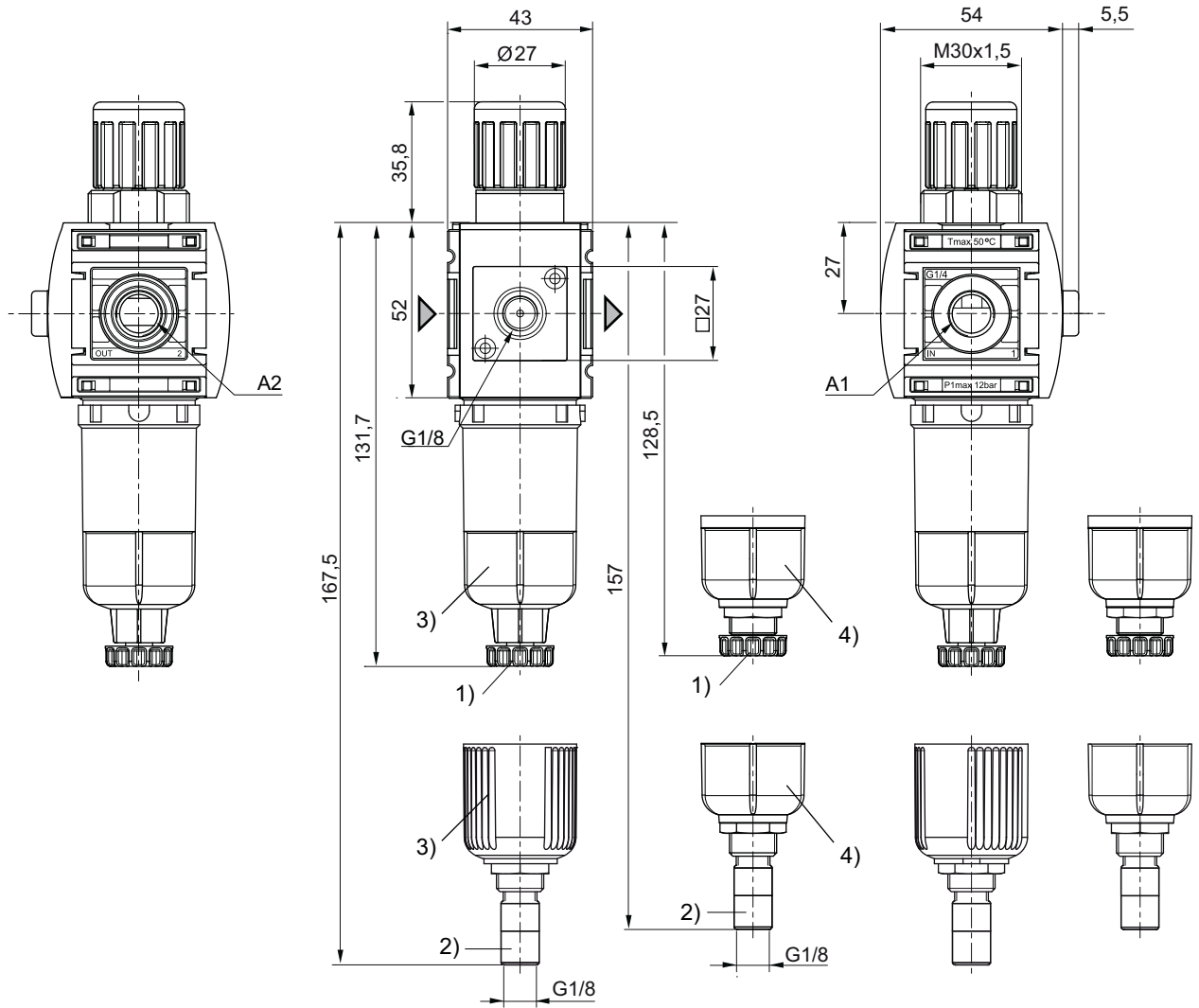
- A1 = input  
 A2 = output  
 1) Semi-automatic condensate drain  
 2) Fully automatic condensate drain  
 3) Reservoir: polycarbonate  
 4) Reservoir: metal



## Filter pressure regulator, Series AS1-FRE

► G 1/4 ► Air supply: left ► filter porosity: 5 µm

Dimensions, Fig. 2



- A1 = input  
A2 = output  
1) Semi-automatic condensate drain  
2) Fully automatic condensate drain  
3) Reservoir: polycarbonate  
4) Reservoir: metal

00138455

**Filter pressure regulator, Series AS1-FRE-...-E11**

▶ G 1/4 ▶ Air supply: left ▶ filter porosity: 5 µm ▶ lockable ▶ with E11 locking

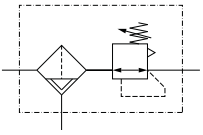


00015829

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 8 bar
Pressure supply	single
Filter reservoir volume	16 cm <sup>3</sup>
Filter element	exchangeable
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Filter insert	Cellpor

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The E11 locking is delivered without a key (see accessories for keys).
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 6

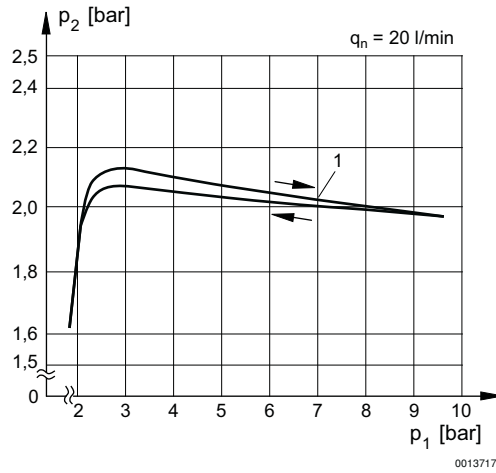
	Port	Qn [l/min]	Condensate drain	Weight [kg]	Part No.
	G 1/4	1000	fully automatic, closed without pressure	0.256	R412010650
Max. pressure gauge Ø in blocked state: 40 Order pressure gauge separately Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar					

Preparation of compressed air ► Maintenance units and components

**Filter pressure regulator, Series AS1-FRE-...-E11**

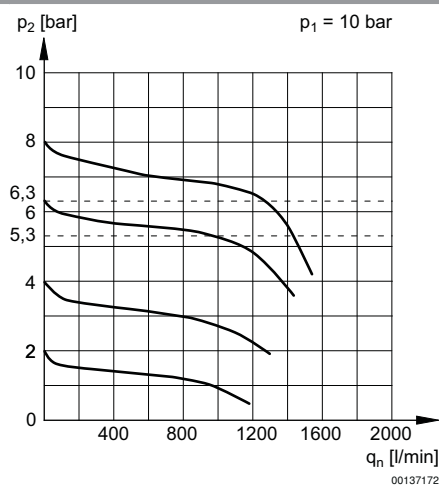
► G 1/4 ► Air supply: left ► filter porosity: 5 µm ► lockable ► with E11 locking

Pressure characteristics curve



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

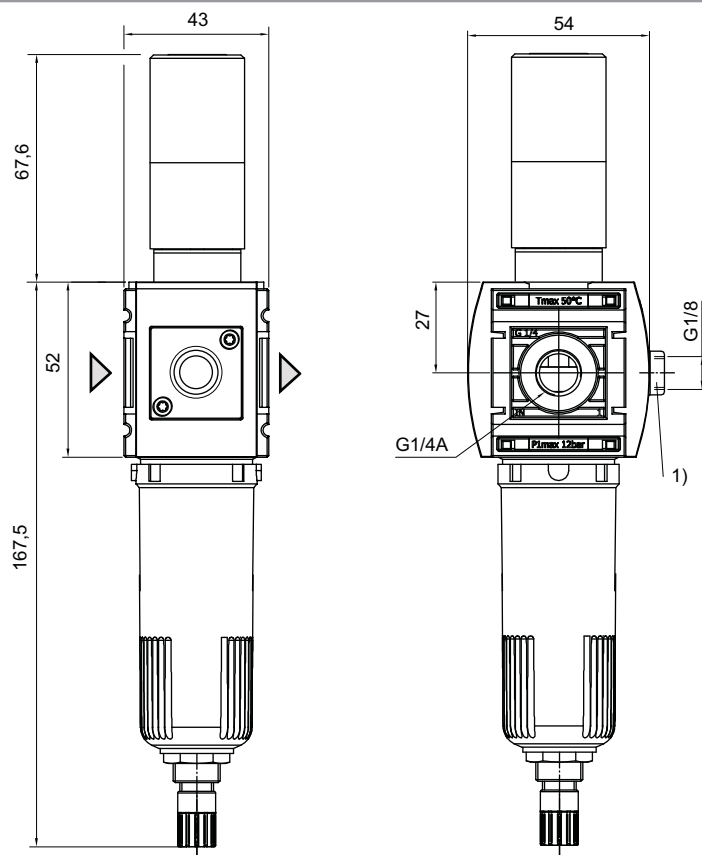
Flow rate characteristic



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

**Filter pressure regulator, Series AS1-FRE-...-E11**

► G 1/4 ► Air supply: left ► filter porosity: 5 µm ► lockable ► with E11 locking

**Dimensions**


00015828

 1) Adapter  
 Order pressure gauge separately

Preparation of compressed air ► Maintenance units and components

**Standard filter, Series AS1-FLS**

► G 1/4 ► Air supply: left ► filter porosity: 5 µm



00137253

Version	Standard filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Filter reservoir volume	16 cm <sup>3</sup>
Filter element	exchangeable
filter porosity	5 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	Cellpor

**Technical Remarks**

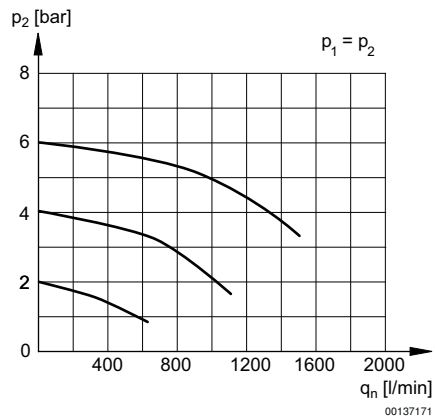
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 6

	Port	Qn	Condensate drain	Reservoir	Protective guard	Weight	Part No.
		[l/min]				[kg]	
	G 1/4	1000	semi-automatic, open without pressure	Polycarbonate	-	0.166	<b>R412014600</b>
			fully automatic, open without pressure	Polycarbonate	-	0.184	R412014601
			fully automatic, closed without pressure	Polycarbonate	-	0.184	R412014602
			semi-automatic, open without pressure	Polycarbonate	metal	0.193	<b>R412014603</b>
			semi-automatic, open without pressure	metal	-	0.243	R412014604
			fully automatic, open without pressure	metal	-	0.255	R412014605
			fully automatic, closed without pressure	metal	-	0.255	R412014606

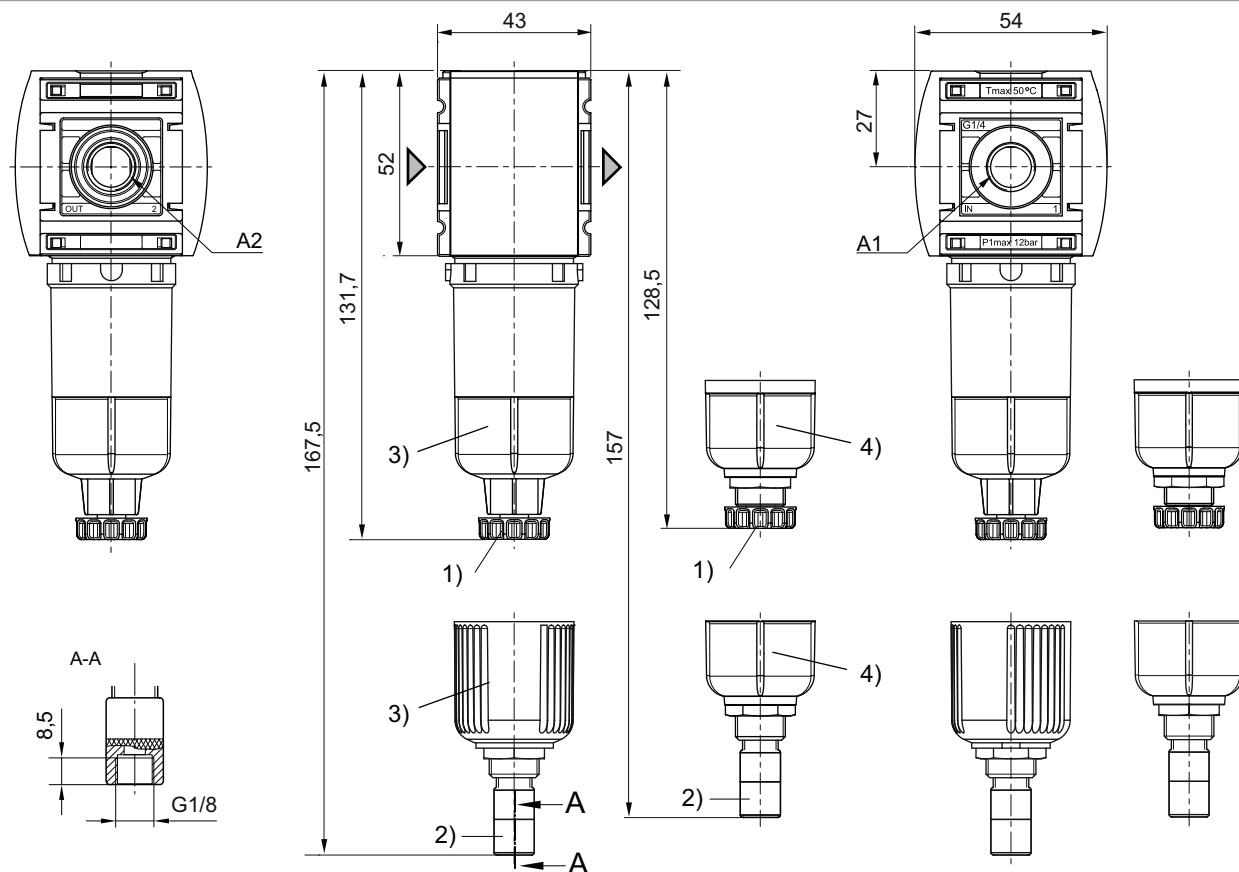
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

**Standard filter, Series AS1-FLS**

▶ G 1/4 ▶ Air supply: left ▶ filter porosity: 5 µm

**Flow rate characteristic**


p2 = secondary pressure  
qn = nominal flow

**Dimensions**


A1 = input  
A2 = output

- 1) Semi-automatic condensate drain
- 2) fully automatic condensate drain
- 3) Reservoir: polycarbonate
- 4) Reservoir: metal

00137154

## Preparation of compressed air ► Maintenance units and components

### Pre-filter, Series AS1-FLP

► G 1/4 ► Air supply: left ► filter porosity: 0.3 µm



00137253

Version	Pre-filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air
	Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Filter reservoir volume	12 cm³
Filter element	exchangeable
filter porosity	0.3 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Paper

#### Technical Remarks

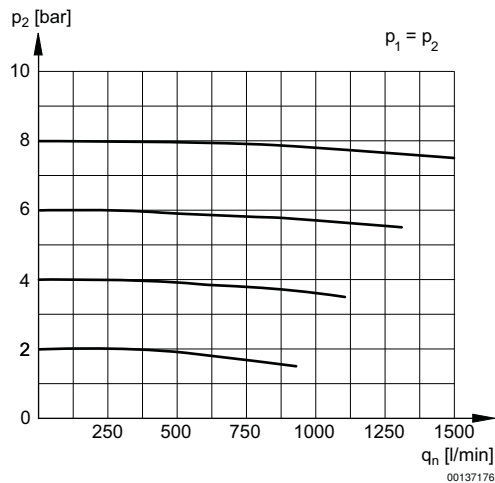
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- max. residual oil content at the outlet: 1 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 2

	Port	Qn	Condensate drain	Reservoir	Protective guard	Weight	Part No.
		[l/min]				[kg]	
	G 1/4	350	semi-automatic, open without pressure	Polycarbonate	-	0.169	<b>R412014607</b>
			fully automatic, open without pressure	Polycarbonate	-	0.187	<b>R412014608</b>
			fully automatic, closed without pressure	Polycarbonate	-	0.187	R412014609
			semi-automatic, open without pressure	Polycarbonate	metal	0.202	R412014610
			semi-automatic, open without pressure	metal	-	0.246	R412014611
			fully automatic, open without pressure	metal	-	0.258	R412014612
			fully automatic, closed without pressure	metal	-	0.258	R412014613

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

**Pre-filter, Series AS1-FLP**

► G 1/4 ► Air supply: left ► filter porosity: 0.3 µm

**Flow rate characteristic**


p<sub>2</sub> = secondary pressure  
q<sub>n</sub> = nominal flow

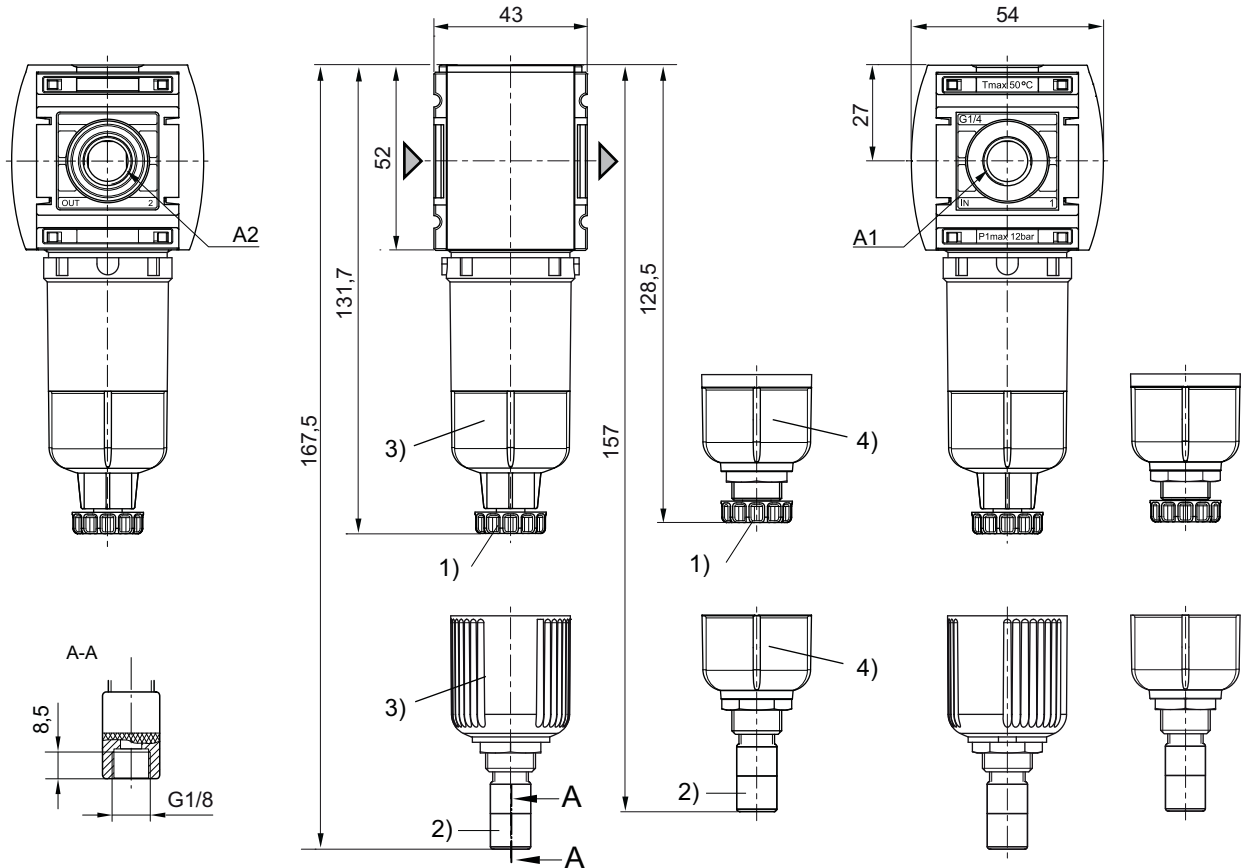


## Preparation of compressed air ► Maintenance units and components

### Pre-filter, Series AS1-FLP

► G 1/4 ► Air supply: left ► filter porosity: 0.3 µm

#### Dimensions



- A1 = input  
A2 = output  
1) Semi-automatic condensate drain  
2) fully automatic condensate drain  
3) Reservoir: polycarbonate  
4) Reservoir: metal

00137154

**Microfilter, Series AS1-FLC**

► G 1/4 ► Air supply: left ► filter porosity: 0.01 µm




00137254

Version	Microfilter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Filter reservoir volume	12 cm <sup>3</sup>
Filter element	exchangeable
filter porosity	0.01 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Filter insert	Borosilicate aluminum

**Technical Remarks**

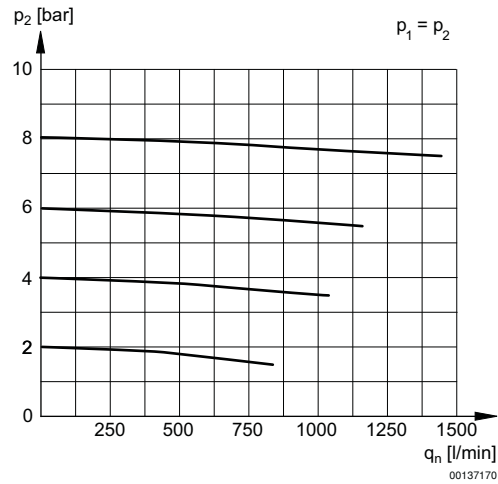
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filtering: 0.3 µm
- max. residual oil content at the outlet: 0.01 mg/m<sup>3</sup>
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 1

	Port	Qn	Condensate drain	Reservoir	Protective guard	Weight	Part No.
		[l/min]				[kg]	
	G 1/4	350	semi-automatic, open without pressure	Polycarbonate	-	0.169	<b>R412014614</b>
			fully automatic, open without pressure	Polycarbonate	-	0.187	<b>R412014615</b>
			fully automatic, closed without pressure	Polycarbonate	-	0.187	R412014616
			semi-automatic, open without pressure	Polycarbonate	metal	0.202	R412014617
			semi-automatic, open without pressure	metal	-	0.246	R412014618
			fully automatic, open without pressure	metal	-	0.258	R412014619
			fully automatic, closed without pressure	metal	-	0.258	R412014620
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0.1 bar							

## Microfilter, Series AS1-FLC

► G 1/4 ► Air supply: left ► filter porosity: 0.01 µm

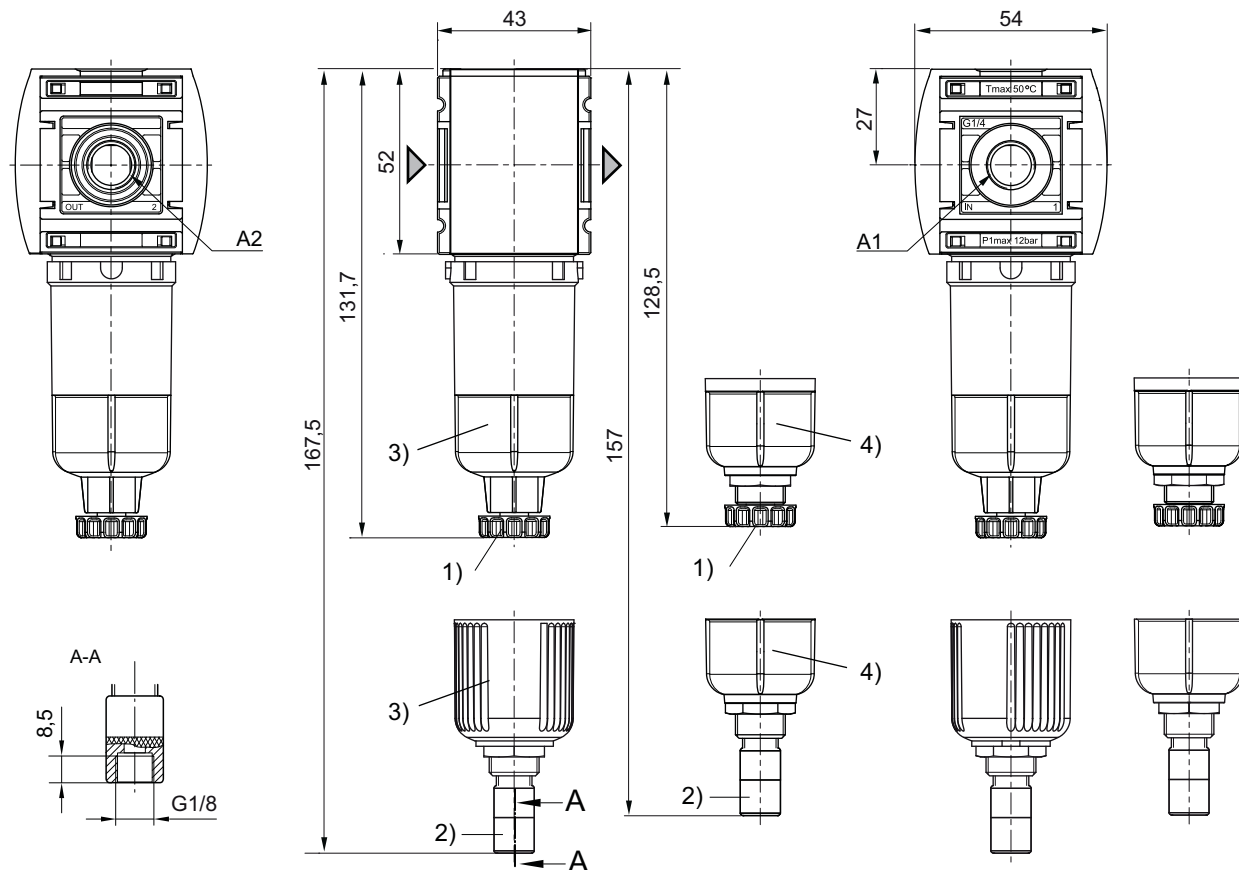
### Flow rate characteristic



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

**Microfilter, Series AS1-FLC**

► G 1/4 ► Air supply: left ► filter porosity: 0.01 µm

**Dimensions**


00137154

- A1 = input  
 A2 = output  
 1) Semi-automatic condensate drain  
 2) Fully automatic condensate drain  
 3) Reservoir: polycarbonate  
 4) Reservoir: metal

## Preparation of compressed air ► Maintenance units and components

### Active carbon filter, Series AS1-FLA

► G 1/4 ► Air supply: left



00137247

Version	Active carbon filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	0 bar / 12 bar
Medium	Compressed air
	Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Filter reservoir volume	12 cm³
Filter element	exchangeable
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Filter insert	Active carbon

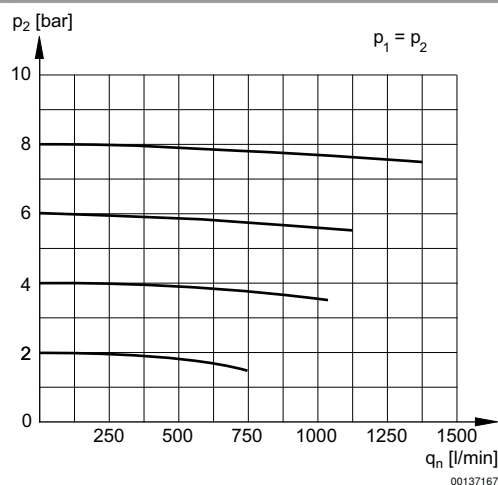
#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filtering: 0.01 µm
- max. residual oil content at the outlet: 0.005 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 0

	Port	Qn [l/min]	Reservoir	Protective guard	Weight [kg]	Part No.
	G 1/4	350	Polycarbonate	-	0.171	<b>R412014621</b>
			Polycarbonate	metal	0.204	R412014622
			metal	-	0.232	R412014623

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

#### Flow rate characteristic

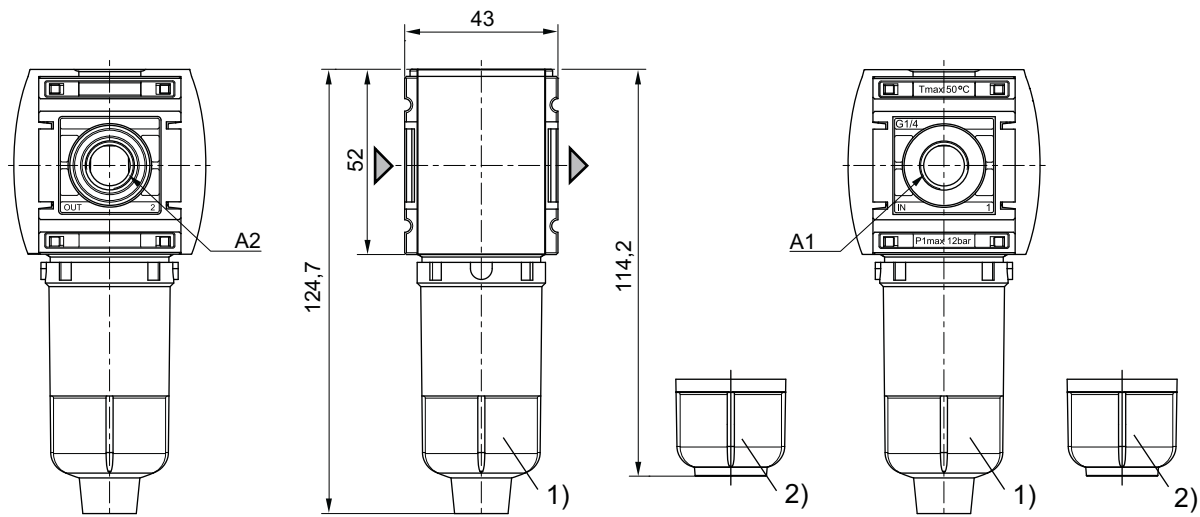


p1 = Working pressure  
p2 = Secondary pressure  
qn = Nominal flow

## Active carbon filter, Series AS1-FLA

► G 1/4 ► Air supply: left

## Dimensions



A1 = input

A2 = output

1) Reservoir: polycarbonate

2) Reservoir: metal

00137148

## Preparation of compressed air ► Maintenance units and components

### Micro oil-mist lubricator, Series AS1-LBM

► G 1/4 ► Air supply: left



00137245

Version	Micro oil-mist lubricator, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	0.8 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Lubricator reservoir volume	35 cm³
Type of filling	Manual oil filling
Oil type	HLP 32 (DIN 51 524 - ISO VG 32) HLP 68 (DIN 51 524 - ISO VG 68)
Compressed air connection	G 1/4
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

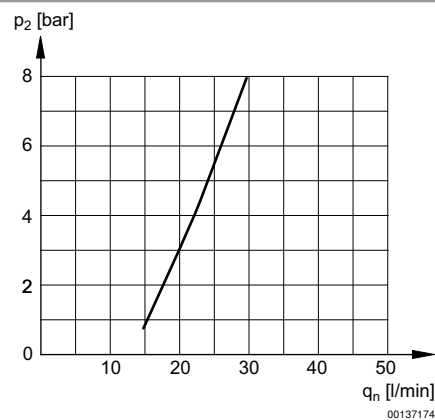
#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- only approx. 10% of the preset drip quantity enters the compressed air system
- oil filling not possible during operation
- Oil dosing at 1000 l/min [drops/min]: 10-20

	Qn	Reservoir	Protective guard	Weight	Part No.
	[l/min]			[kg]	
	1400	Polycarbonate	-	0.187	<b>R412014624</b>
		Polycarbonate	metal	0.22	R412014625
		Die cast zinc	-	0.248	R412014626

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

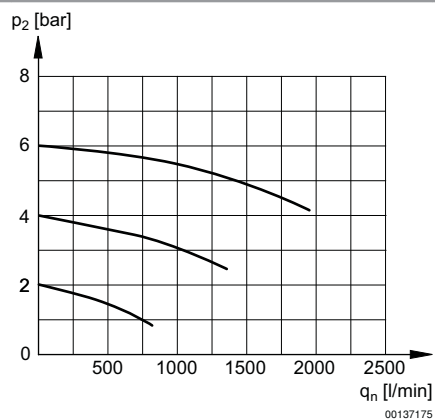
#### Lubricator activation margin



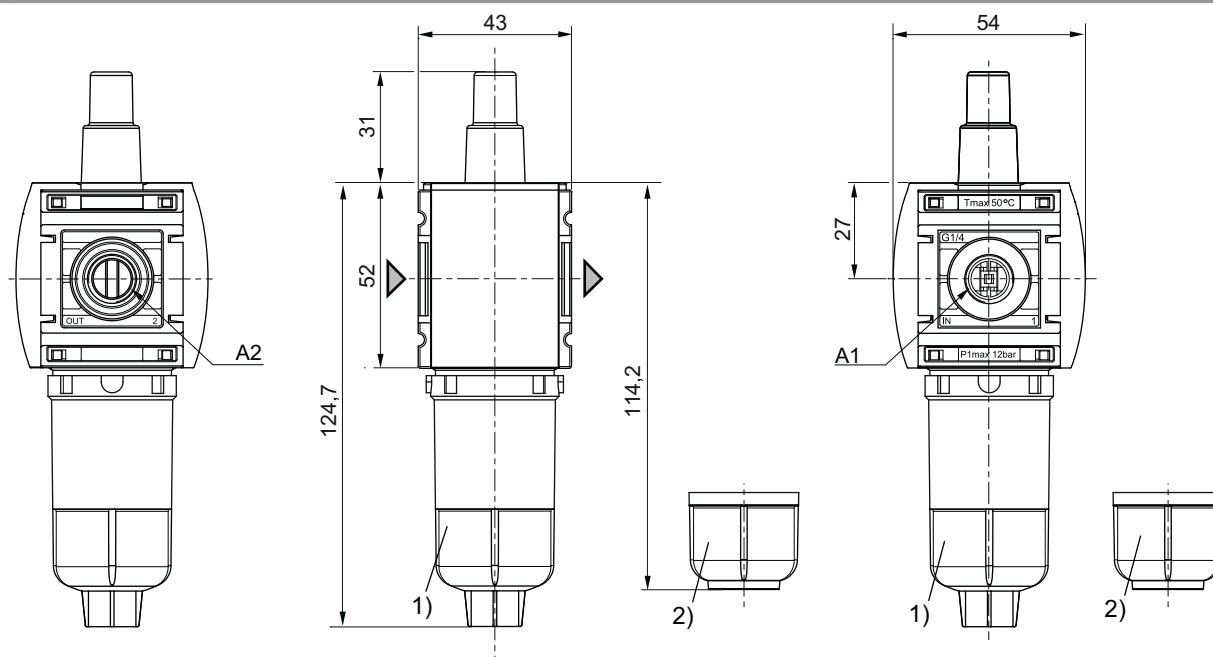
p2 = secondary pressure  
qn = nominal flow

**Micro oil-mist lubricator, Series AS1-LBM**

► G 1/4 ► Air supply: left

**Flow rate characteristic**


p2 = secondary pressure  
qn = nominal flow

**Dimensions**


A1 = input  
A2 = output  
1) Reservoir: polycarbonate  
2) Reservoir: metal

00137160



## Preparation of compressed air ► Maintenance units and components

### Filling unit, electrically operated, Series AS1-SSU

► G 1/4 ► Air supply: left ► pipe connection



00137268

#### Parts

##### Version

Nominal flow

Nominal flow, 1►2

Nominal flow, 2►3

Working pressure min./max.

Medium

Medium temperature min./max.

Ambient temperature min./max.

Pilot

Sealing principle

Max. particle size

Protection class, with Plug Mounted

Duty cycle

##### Materials:

Housing

Front plate

Seals

Threaded bushing

3/2-directional valve, electrically operated, Filling valve

Poppet valve, Can be assembled into blocks

1300 l/min

1300 l/min

380 l/min

2.5 bar / 10 bar

Compressed air

Neutral gases

-10°C / +50°C

-10°C / +50°C

internal

Soft sealing

25 µm

IP65

100 %

Polyamide

Acrylonitrile butadiene styrene

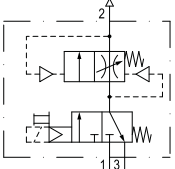

Acrylonitrile Butadiene Rubber

Die cast zinc

#### Technical Remarks

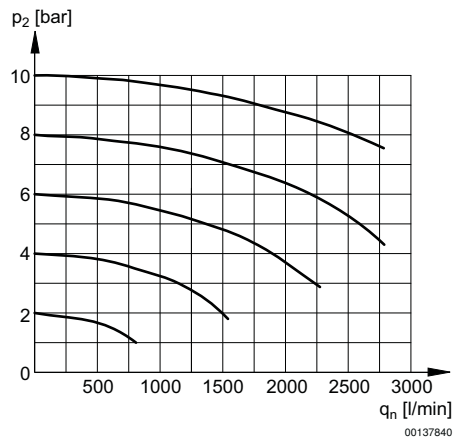
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

Operational voltage	Power consumption
DC	DC
	W
24 V	2

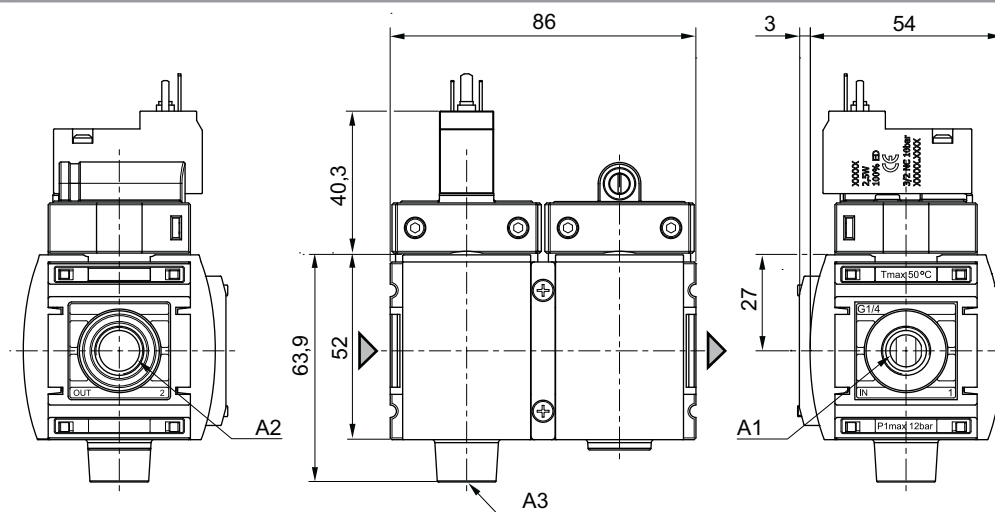
		Port	Exhaust	Operational voltage	Electr. connection	Weight	Fig.	Part No.
				DC				
						[kg]		
		G 1/4	G 1/4	24 V	ISO 15217, form C	0.36	Fig. 1	<b>R412010484</b>
					M12	0.377	Fig. 2	R412010682
Basic valve with pilot valve Manual override: without detent Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar								

**Filling unit, electrically operated, Series AS1-SSU**

▶ G 1/4 ▶ Air supply: left ▶ pipe connection

**Flow rate characteristic**

 $p_2$  = secondary pressure

 $q_n$  = nominal flow

**Fig. 1: Filling unit with pilot valve and port for electrical connector form C**


A1 = input

A2 = output

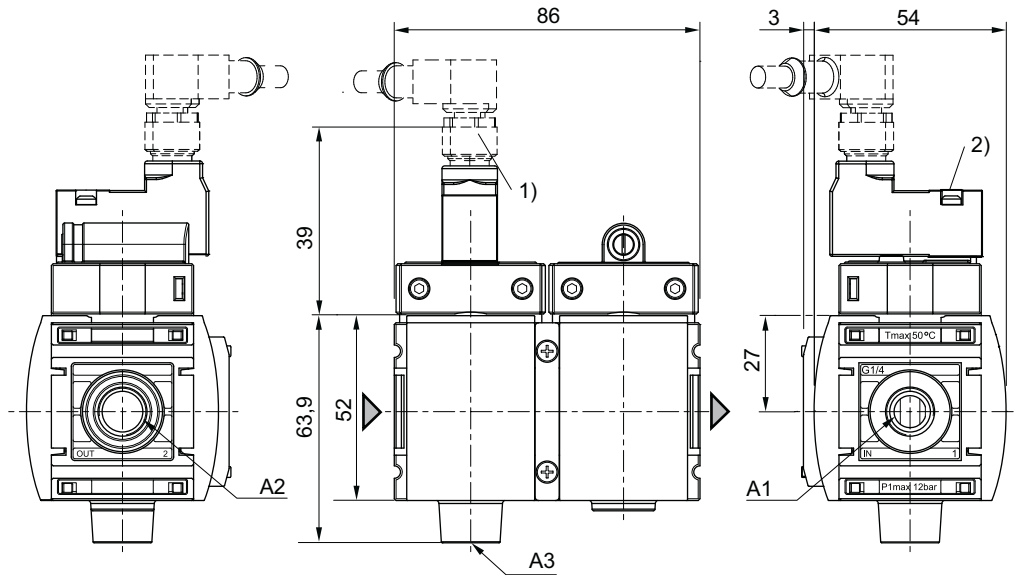
A3 = ventilation port

Preparation of compressed air ► Maintenance units and components

**Filling unit, electrically operated, Series AS1-SSU**

► G 1/4 ► Air supply: left ► pipe connection

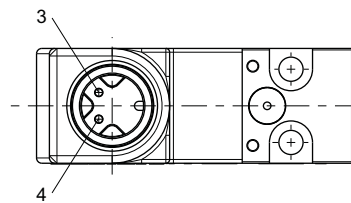
**Fig. 2: Filling unit with pilot valve and electrical connector for plug M12x1**



20440

- A1 = input
- A2 = output
- A3 = ventilation port
- 1) plug M12
- 2) Manual override

**Pin assignment M12x1**



20438

- 3: +/-
- 4: +/-

Filling valve, pneumatically operated, Series AS1-SSV

▶ G 1/4 ▶ Air supply: left ▶ pipe connection



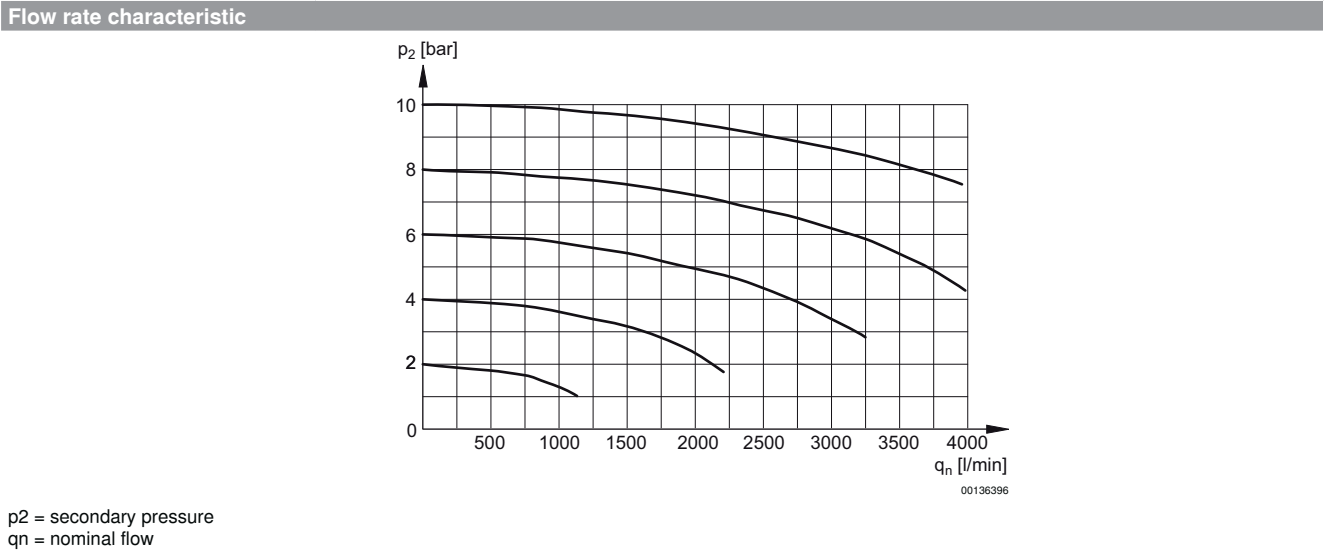
00137243

Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Sealing principle	Soft sealing
Control pressure min./max.	2.5 bar / 16 bar
Max. particle size	40 µm
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks

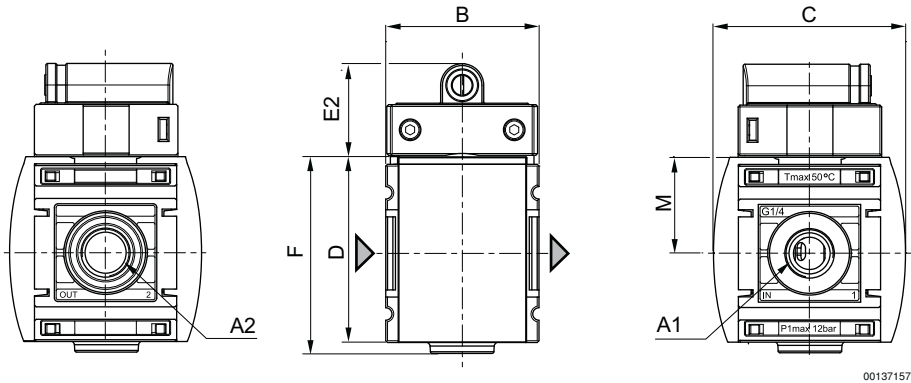
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

	Port	Qn		Weight	Part No.
		1 ▶ 2			
		[l/min]		[kg]	
	G 1/4	2000	2000	0.1336	<b>R412014671</b>
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar					



Filling valve, pneumatically operated, Series AS1-SSV  
▶ G 1/4 ▶ Air supply: left ▶ pipe connection

Dimensions



A1 = input  
A2 = output

Part No.	A1	A2	B	C	D	E2	F	M			
<b>R412014671</b>	G 1/4	G 1/4	43	54	52	26	54.9	27			

**3/2-directional valve, electrically operated, Series AS1-SOV**
**► ATEX optional ► G 1/4 ► Air supply: left ► pipe connection**


00137241\_a

Version	Poppet valve, Can be assembled into blocks
Nominal flow, 1►2	2000 l/min
Nominal flow, 2►3	380 l/min
Working pressure min./max.	2 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Pilot	internal
Sealing principle	Soft sealing
Max. particle size	25 µm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Protection class, with Plug Mounted	IP65
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- ATEX optional: The ATEX ID depends on the selected pilot valve.

Operational voltage			Power consumption	Switch-on power		Holding power
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
			W	VA	VA	VA
24 V	-	-	2	-	-	-
-	230 V	230 V	-	3	3	1.6

		Port	Exhaust	Operational voltage			Electr. connection	Weight	Fig.	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz					
								[kg]			
	-	G 1/4	G 1/4	-	-	-	-	0.1964	Fig. 1	1); 4)	R412014669
								0.2096		2); 4)	R412014670
	=	G 1/4	G 1/4	24 V	-	-	Plug, ISO 15217, form C	0.2154	Fig. 2	3)	<b>R412014666</b>
				-	230 V	230 V	Plug, ISO 15217, form C	0.2143	Fig. 2		<b>R412014668</b>
				24 V	-	-	Plug, M12	0.2321	Fig. 3		<b>R412010680</b>

- 1) Basic valve without pilot valve  
 2) Basic valve without pilot valve, with CNOMO subbase  
 3) Basic valve with pilot valve  
 4) ATEX optional  
 Nominal flow Q<sub>n</sub> with secondary pressure p<sub>2</sub> = 6 bar at Δp = 1 bar

Preparation of compressed air ► Maintenance units and components

**3/2-directional valve, electrically operated, Series AS1-SOV**

► ATEX optional ► G 1/4 ► Air supply: left ► pipe connection

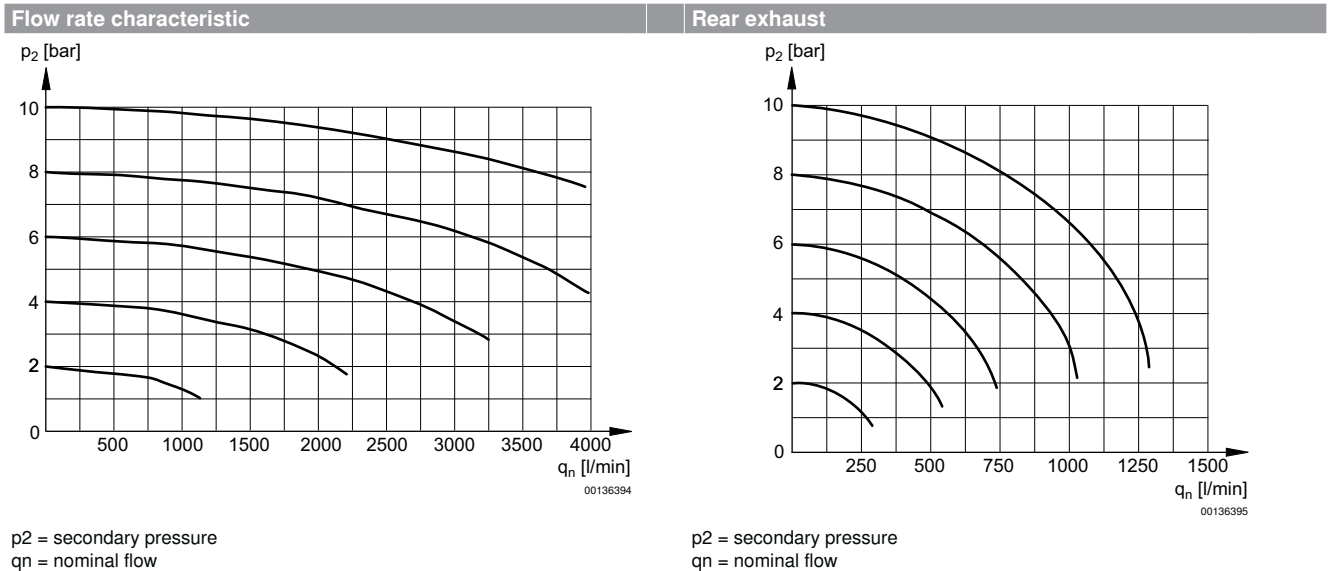
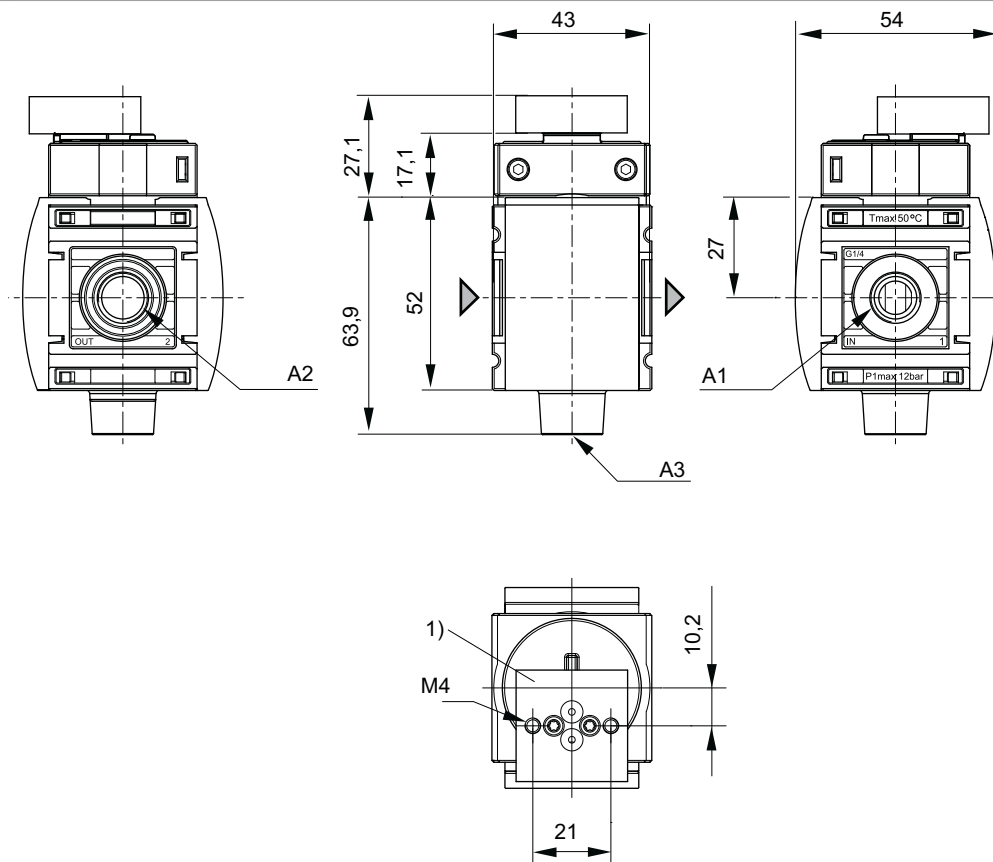


Fig. 1: 3/2-directional valve with transition plate for pilot valve series DO30

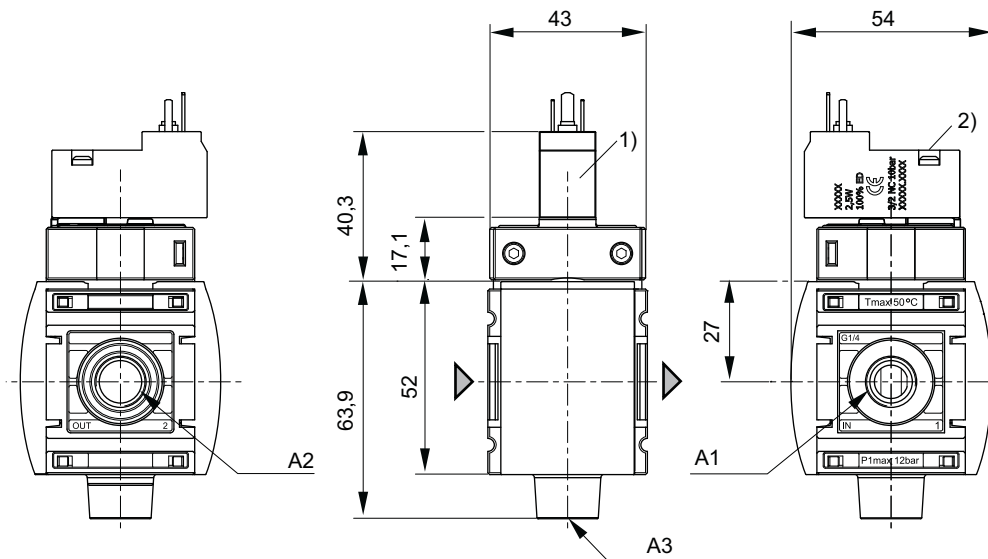


00132008

A1 = input  
 A2 = output  
 A3 = ventilation port  
 1) Transition plate with CNOMO porting configuration for pilot valve DO30

**3/2-directional valve, electrically operated, Series AS1-SOV**

▶ ATEX optional ▶ G 1/4 ▶ Air supply: left ▶ pipe connection

**Fig. 2: 3/2-directional valve with pilot valve and port for electrical connector form C**


00132005

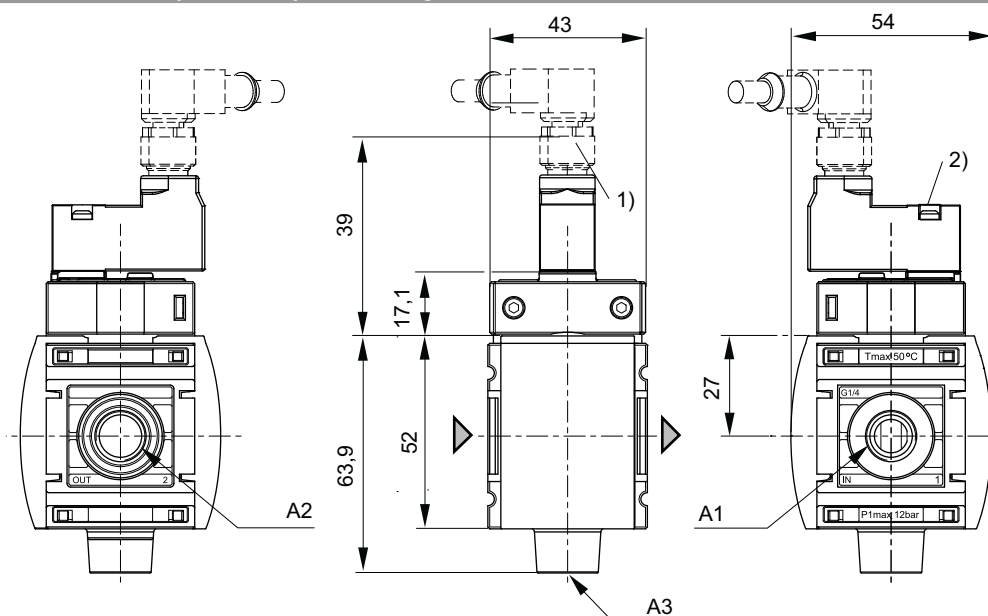
A1 = input

A2 = output

A3 = ventilation port

1) For electrical connector according to ISO 15217 (form C)

2) Manual override

**Fig. 3: 3/2-directional valve with pilot valve, push-in fitting M12x1**


20439

A1 = input

A2 = output

A3 = ventilation port

1) plug M12

2) Manual override

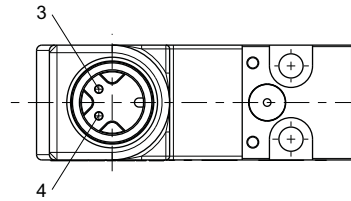


Preparation of compressed air ► Maintenance units and components

**3/2-directional valve, electrically operated, Series AS1-SOV**

► ATEX optional ► G 1/4 ► Air supply: left ► pipe connection

Pin assignment M12x1



20438

3: +/-

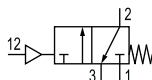
4: +/-

3/2-directional valve, pneumatically operated, Series AS1-SOV  
▶ G 1/4 ▶ Air supply: left ▶ pipe connection



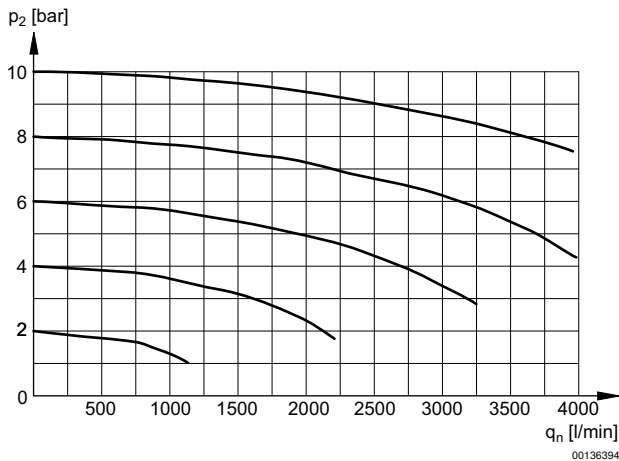
Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Sealing principle	Soft sealing
Control pressure min./max.	2.5 bar / 16 bar
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

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

	Port	Exhaust	Qn			Weight	Part No.
			1▶2	2▶3	3▶1		
			[l/min]			[kg]	
	G 1/4	G 1/4	2000	2000	380	0.09	<b>R412014665</b>

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

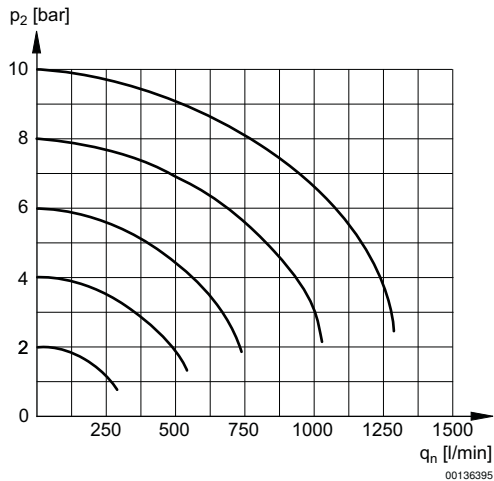
Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow

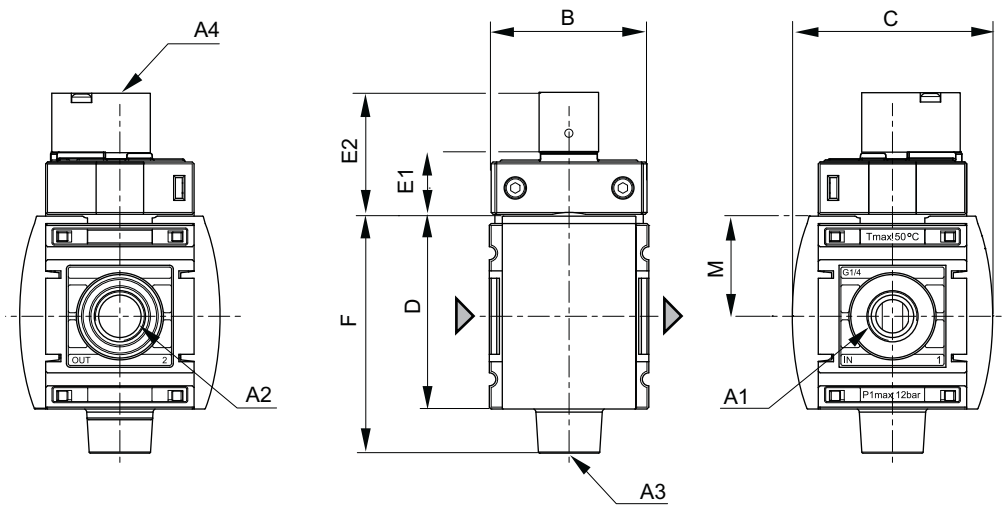
3/2-directional valve, pneumatically operated, Series AS1-SOV  
▶ G 1/4 ▶ Air supply: left ▶ pipe connection

Rear exhaust



p2 = secondary pressure  
qn = nominal flow

Dimensions



A1 = input  
A2 = output  
A3 = ventilation port  
A4 = control pressure connection

Part No.	A1	A2	A3	A4	B	C	D	E1	E2	F	M	
<b>R412014665</b>	G 1/4	G 1/4	G 1/4	G 1/8	43	54	52	17.1	33.1	63.9	27	

**3/2-shut-off valve, mechanically operated, Series AS1-BAV**

► G 1/4 ► Air supply: left



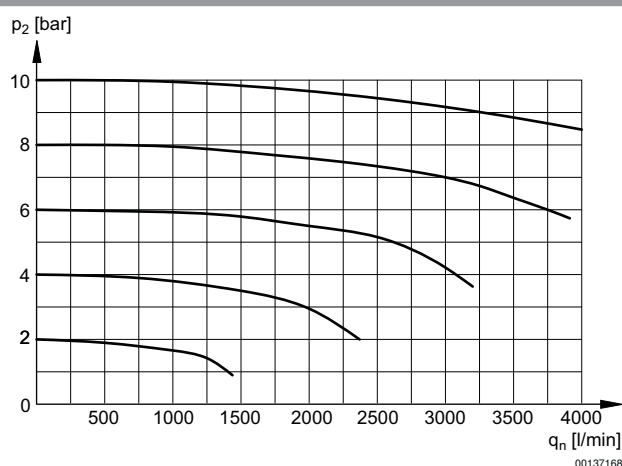
00137244

Version	Ball valve, Can be assembled into blocks for padlocks
Working pressure min./max.	lockable 0 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Actuating element	rotary switch
Max. particle size	25 µm
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Actuating element	Polyoxymethylene

**Technical Remarks**

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

	Port	Exhaust	Qn		Weight	Part No.
			1►2	2►3		
			[l/min]		[kg]	
	G 1/4	G 1/4	2600	380	0.15	<b>R412014664</b>

Nominal flow Qn with secondary pressure p<sub>2</sub> = 6 bar at Δp = 1 bar
**Flow rate characteristic**


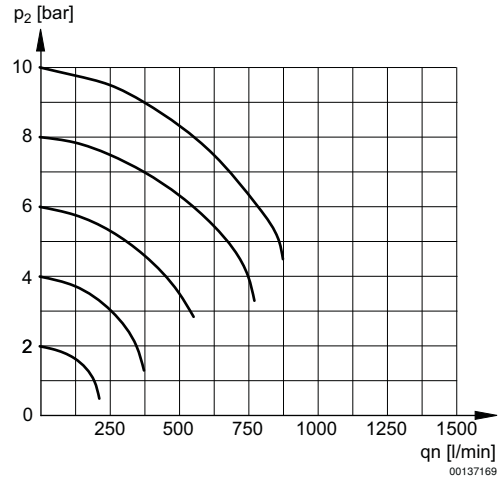
p<sub>2</sub> = secondary pressure  
q<sub>n</sub> = nominal flow

Preparation of compressed air ► Maintenance units and components

**3/2-shut-off valve, mechanically operated, Series AS1-BAV**

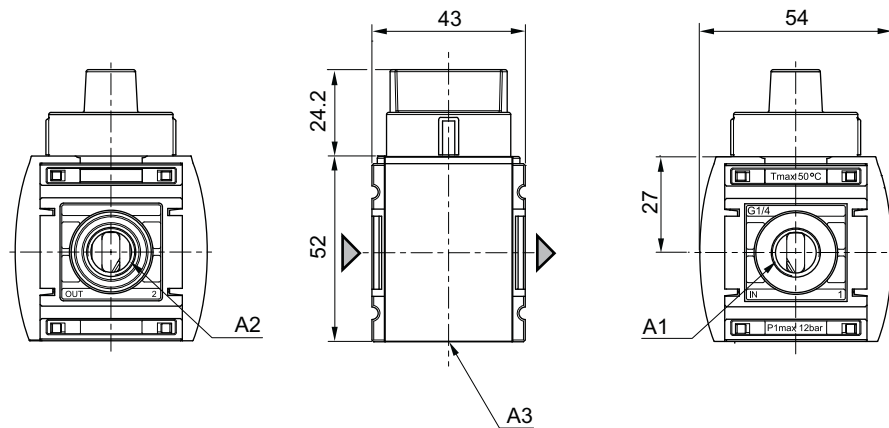
► G 1/4 ► Air supply: left

**Rear exhaust**



p2 = secondary pressure  
qn = nominal flow

**Dimensions**



A1 = input  
A2 = output  
A3 = ventilation port


**Distributor, Series AS1-DIS**

▶ G 1/4 ▶ Air supply: left ▶ Distributor 2x ▶ Distributor



00137242

Version	Distributor, Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

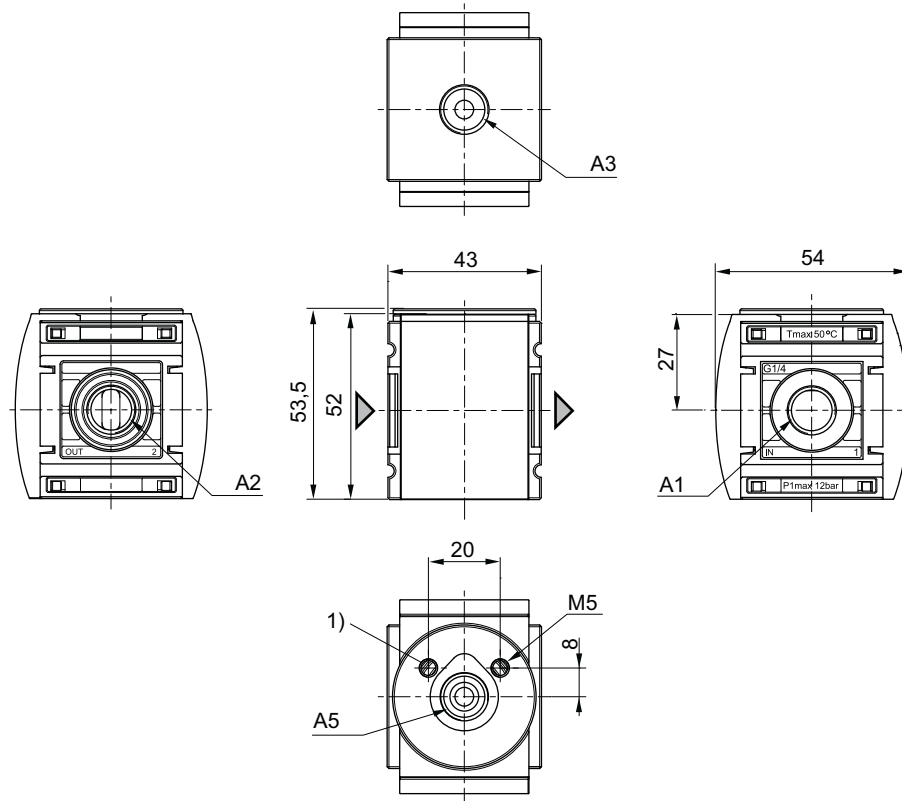
	Port	Qn			Weight	Part No.
		1▶2	1▶3	1▶5		
		[l/min]			[kg]	
	G 1/4	2700	950	2000	0.148	<b>R412014662</b>

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

## Distributor, Series AS1-DIS

► G 1/4 ► Air supply: left ► Distributor 2x ► Distributor

### Dimensions



00137153

- A1 = input
- A2 = output
- A3 = output
- A5 = output
- 1) Mounting thread for pressure sensor


Distributor, Series AS1-DIN

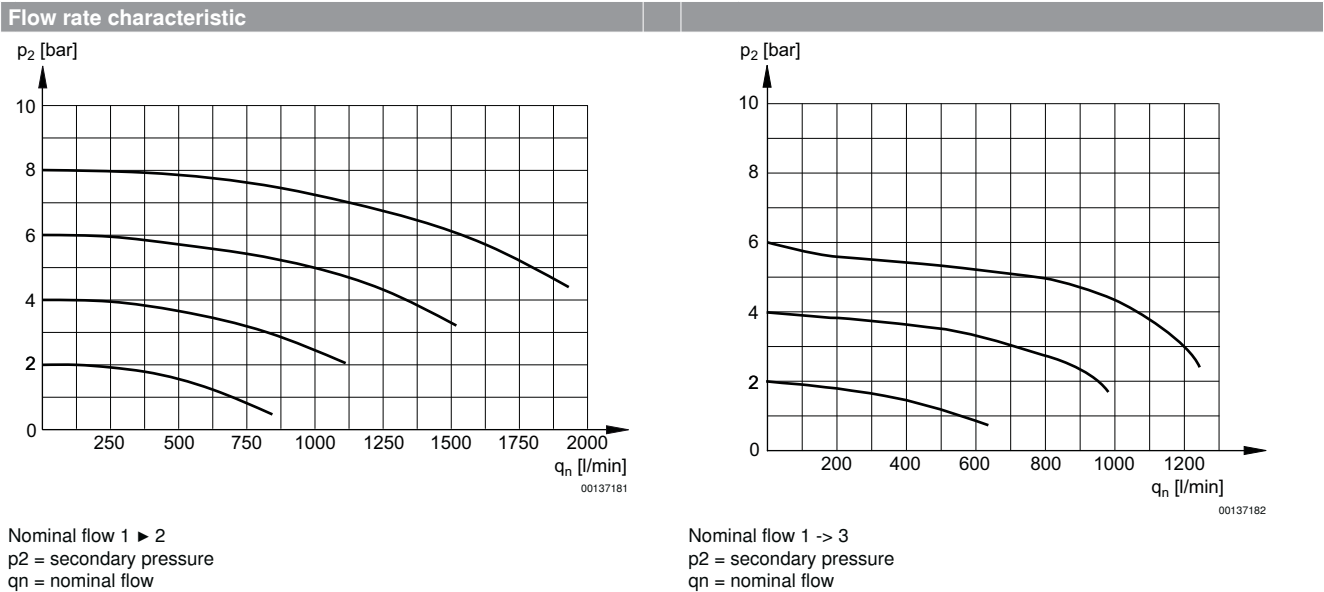
▶ G 1/4 ▶ Air supply: left ▶ Distributor 1x ▶ Non-return valve



00137240

Version	Non-return valve, Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

	Port	Qn		Weight	Part No.
		1 ► 2	1 ► 3		
		[l/min]		[kg]	
	G 1/4	800	1000	0.178	R412014663
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar					

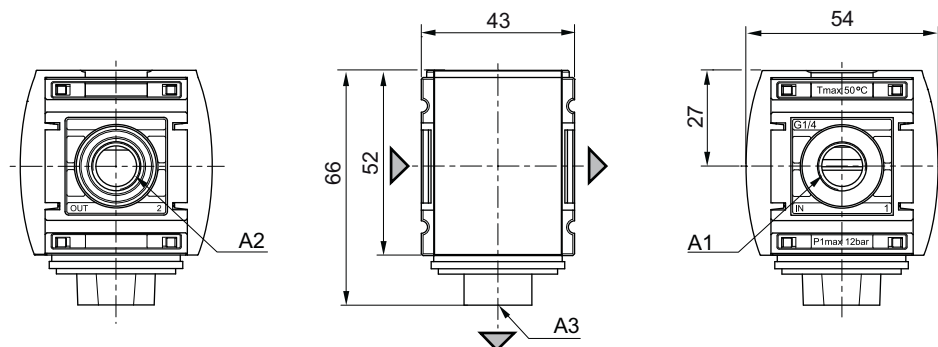




# **Distributor, Series AS1-DIN**

► G 1/4 ► Air supply: left ► Distributor 1x ► Non-return valve

## Dimensions



00137163

A1 = input  
A2 = output  
A3 = output

**Pressure regulator, Series AS1-RGS**
**▶ G 1/4 ▶ Air supply: right ▶ Qn= 1000 l/min ▶ Activation: manual**


00137239

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

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

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Fig.	Part No.
			[l/min]	[bar]	[bar]	[kg]		
		G 1/4	1000	0.2 / 12	0.2 - 4	0.209	Fig. 1	R412014705
				0.5 / 12	0.5 - 8			R412014706
				0.5 / 12	0.5 - 10			R412014707
	-	G 1/4	1000	0.2 / 12	0.2 - 4	0.206	Fig. 2	R412014711
				0.5 / 12	0.5 - 8			R412014712
				0.5 / 12	0.5 - 10			<b>R412014713</b>

Max. pressure gauge Ø in blocked state: 40

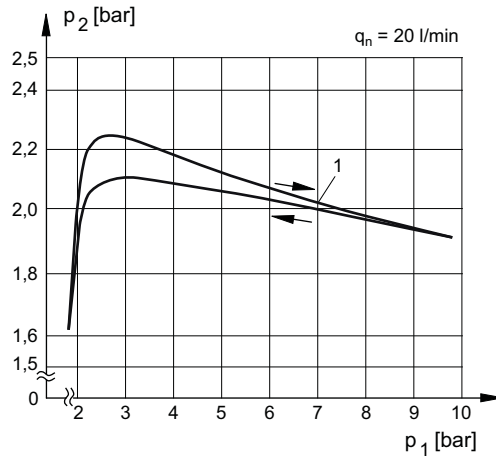
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Preparation of compressed air ► Maintenance units and components

**Pressure regulator, Series AS1-RGS**

► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual

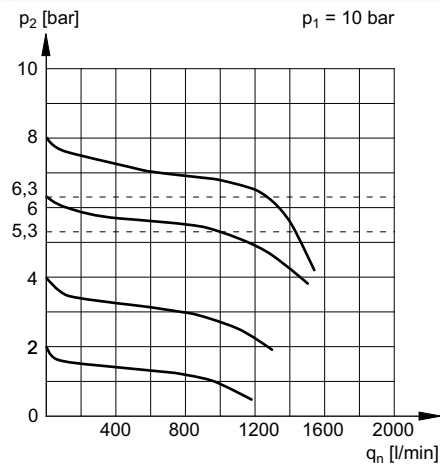
Pressure characteristics curve



00137180

$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 1) = Starting point

Flow rate characteristic



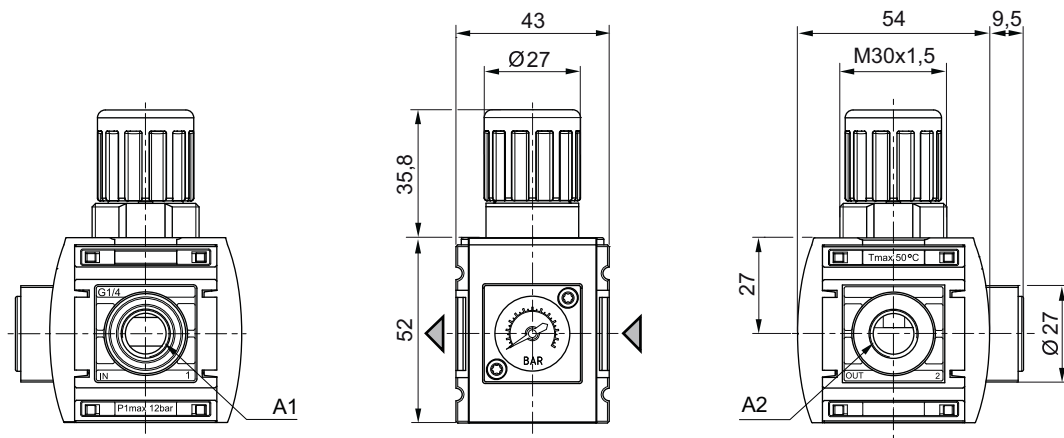
00137179

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

## Pressure regulator, Series AS1-RGS

► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual

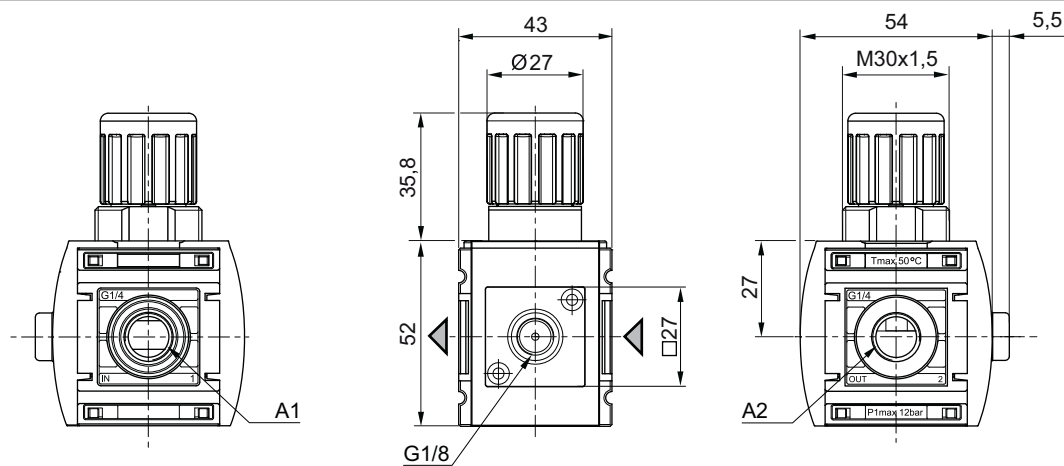
### Dimensions, Fig. 1



A1 = input  
A2 = output

00136218

### Dimensions, Fig. 2



A1 = input  
A2 = output

00138458

## Preparation of compressed air ► Maintenance units and components

### Pressure regulator, Series AS1-RGS

► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual ► with pressure gauge in hand wheel



00137238

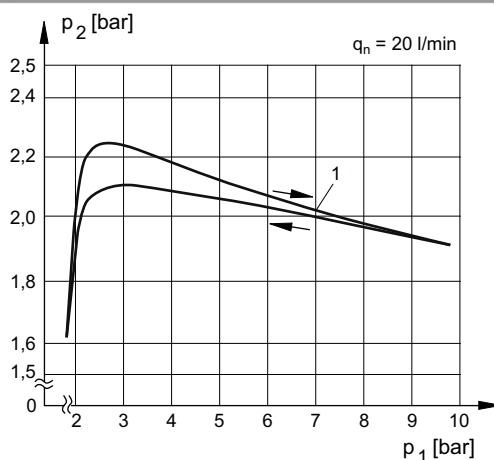
Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

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

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
			[l/min]	[bar]	[bar]	[kg]	
		G 1/4	1000	0.2 / 12	0.2 - 4	0.239	R412014717
				0.5 / 12	0.5 - 8		R412014718
				0.5 / 12	0.5 - 10		R412014719
Panel nut included in scope of delivery Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar							

#### Pressure characteristics curve

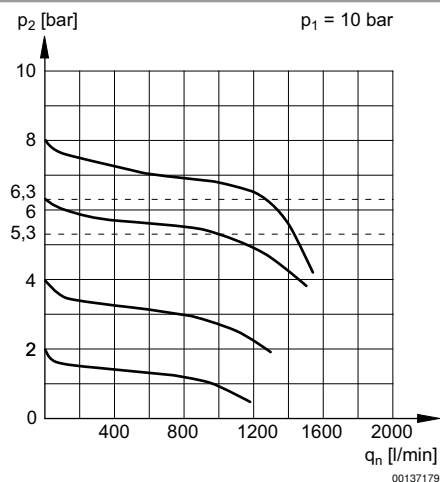


00137180

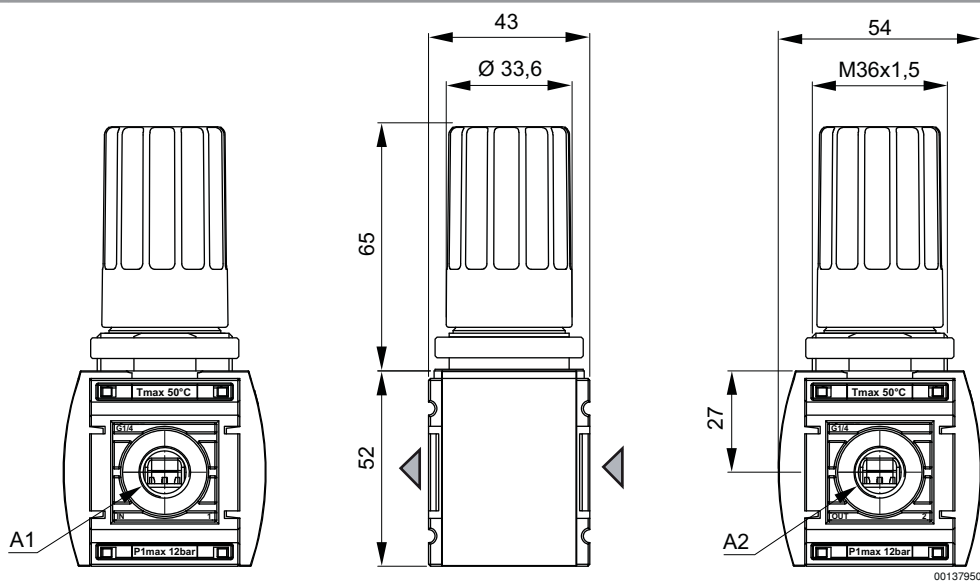
p1 = Working pressure  
 p2 = Secondary pressure  
 qn = Nominal flow  
 1) = Starting point

**Pressure regulator, Series AS1-RGS**

▶ G 1/4 ▶ Air supply: right ▶  $Q_n = 1000$  l/min ▶ Activation: manual ▶ with pressure gauge in hand wheel

**Flow rate characteristic**


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

**Dimensions**


A1 = input  
 A2 = output

## Preparation of compressed air ► Maintenance units and components

### Pressure regulator, Series AS1-RGS-...-DS

► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply



00137239

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

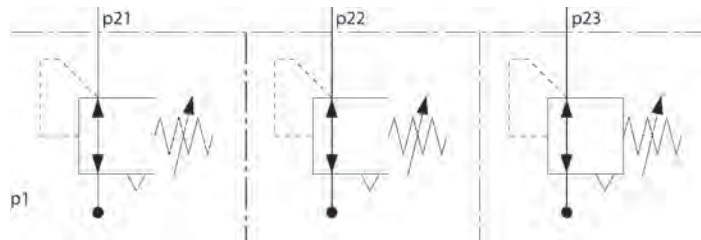
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Fig.	Part No.
			[l/min]	[bar]	[bar]	[kg]		
		G 1/4	1000	0.2 / 12	0.2 - 4	0.209	Fig. 1	R412014708
				0.5 / 12	0.5 - 8			R412014709
				0.5 / 12	0.5 - 10			R412014710
	-	G 1/4	1000	0.1 / 12	0.1 - 1	0.206	Fig. 2	R412010559
				0.2 / 12	0.2 - 4			R412014714
				0.5 / 12	0.5 - 8			R412014715
				0.5 / 12	0.5 - 10			R412014716

Max. pressure gauge Ø in blocked state: 40

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

#### Application example



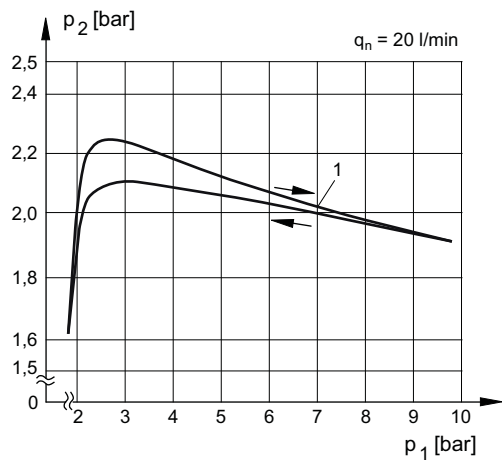
00108090

p1 = working pressure

p21; p22; p23 = secondary pressure

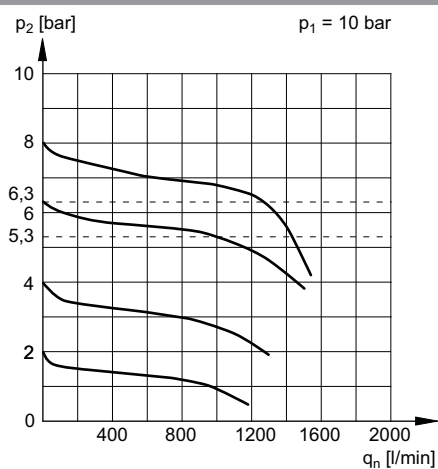
**Pressure regulator, Series AS1-RGS-...-DS**

 ▶ G 1/4 ▶ Air supply: right ▶  $Q_n = 1000$  l/min ▶ Activation: manual ▶ with continuous pressure supply

**Pressure characteristics curve**


00137180

$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 1) = Starting point

**Flow rate characteristic**


00137179

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

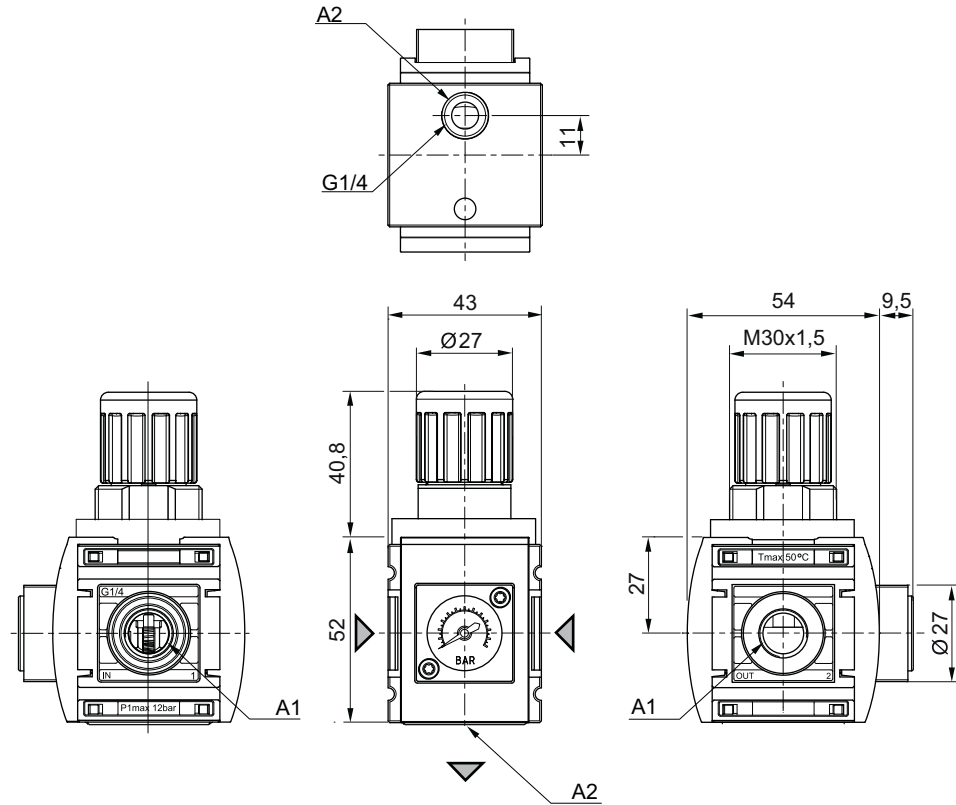


## Preparation of compressed air ► Maintenance units and components

### Pressure regulator, Series AS1-RGS-...-DS

► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply

Dimensions, Fig. 1

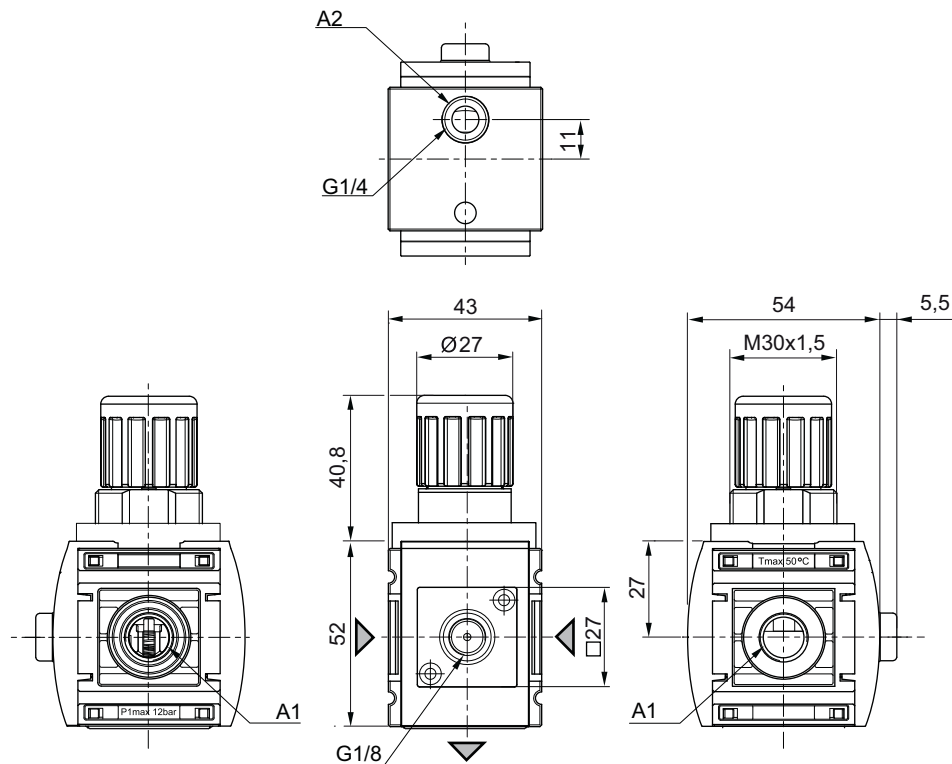


A1 = input  
A2 = output

00136219

**Pressure regulator, Series AS1-RGS-...-DS**

▶ G 1/4 ▶ Air supply: right ▶ Qn= 1000 l/min ▶ Activation: manual ▶ with continuous pressure supply

**Dimensions, Fig. 2**


A1 = input  
A2 = output

00138459

**Preparation of compressed air ► Maintenance units and components**

**Pressure regulator, Series AS1-RGS-...-DS**

► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply ► with pressure gauge in hand wheel



00137238

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

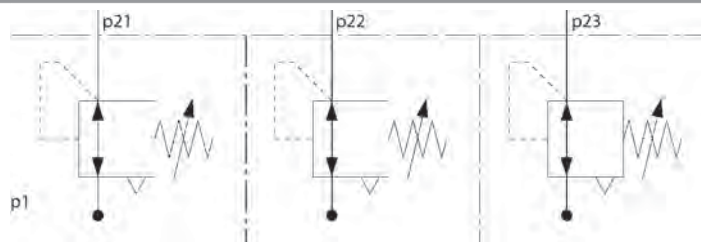
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
			[l/min]	[bar]	[bar]	[kg]	
		G 1/4	1000	0.2 / 12	0.2 - 4	0.239	R412014720
				0.5 / 12	0.5 - 8		R412014721
				0.5 / 12	0.5 - 10		R412014722

Panel nut included in scope of delivery

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

**Application example**

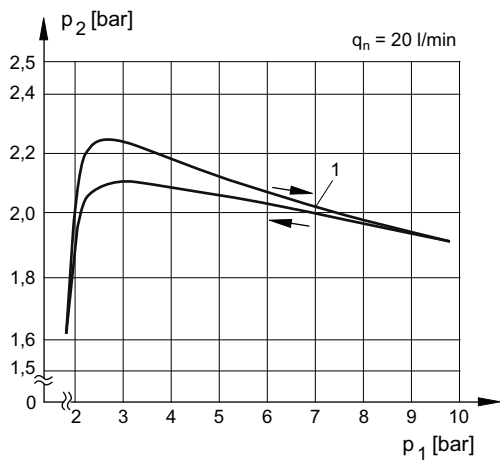


00108090

p1 = working pressure  
p21; p22; p23 = secondary pressure

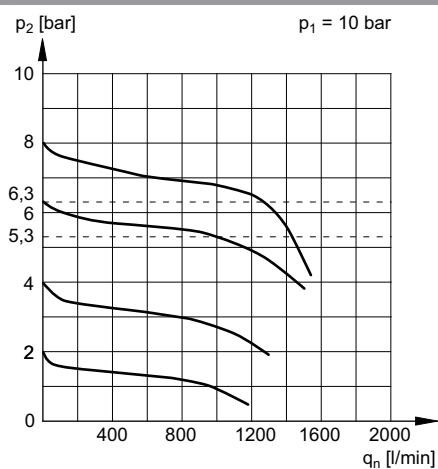
**Pressure regulator, Series AS1-RGS-...-DS**

▶ G 1/4 ▶ Air supply: right ▶  $Q_n = 1000$  l/min ▶ Activation: manual ▶ with continuous pressure supply ▶ with pressure gauge in hand wheel

**Pressure characteristics curve**


00137180

$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 1) = Starting point

**Flow rate characteristic**


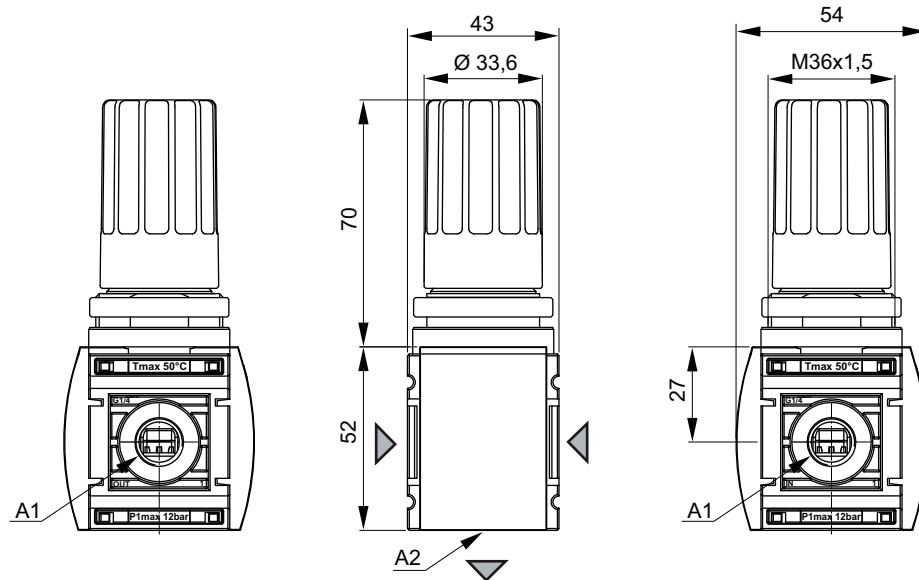
00137179

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

**Pressure regulator, Series AS1-RGS-...-DS**

► G 1/4 ► Air supply: right ► Qn= 1000 l/min ► Activation: manual ► with continuous pressure supply ► with pressure gauge in hand wheel

**Dimensions**



00137949

A1 = input  
A2 = output

**Filter pressure regulator, Series AS1-FRE**

▶ G 1/4 ▶ Air supply: right ▶ filter porosity: 5 µm



00137251

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
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	16 cm³
Filter element	exchangeable
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	Cellpor

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 6

		Port	Qn	Adjustment range min./max.	Condensate drain	Weight	Fig.	Note	Part No.
			[l/min]	[bar]		[kg]			
		G 1/4	1000	0.5 / 8	semi-automatic, open without pressure	0.241	Fig. 1	2)	<b>R412014723</b>
					fully automatic, open without pressure	0.259		2)	R412014724
					fully automatic, closed without pressure	0.259		2)	R412014725
					semi-automatic, open without pressure	0.274		2); 4)	R412014726
					semi-automatic, open without pressure	0.318		3)	R412014727
					fully automatic, open without pressure	0.33		3)	R412014728
					fully automatic, closed without pressure	0.33		3)	R412014729
	-	G 1/4	1000	0.5 / 8	semi-automatic, open without pressure	0.238	Fig. 2	1); 2)	R412014730
					fully automatic, open without pressure	0.256			R412014731
					fully automatic, closed without pressure	0.256			R412014732

1) Max. pressure gauge Ø in blocked state: 40

2) Reservoir: Polycarbonate

3) Reservoir: Die cast zinc

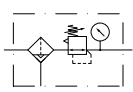

4) Protective guard: metal

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

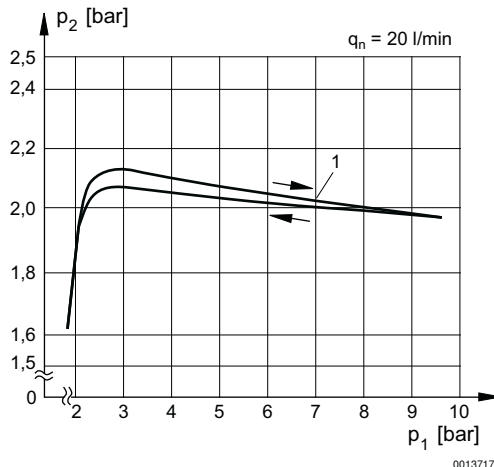
Preparation of compressed air ► Maintenance units and components

**Filter pressure regulator, Series AS1-FRE**

► G 1/4 ► Air supply: right ► filter porosity: 5 µm

		Port	Qn	Adjustment range min./max.	Condensate drain	Weight	Fig.	Note	Part No.
			[l/min]	[bar]		[kg]			
		G 1/4	1000	0.5 / 10	semi-automatic, open without pressure	0.241	Fig. 1	2)	<b>R412014733</b>
					fully automatic, open without pressure	0.259		2)	R412014734
					fully automatic, closed without pressure	0.259		2)	R412014735
					semi-automatic, open without pressure	0.274		2); 4)	R412014736
					semi-automatic, open without pressure	0.318		3)	R412014737
					fully automatic, open without pressure	0.33		3)	R412014738
					fully automatic, closed without pressure	0.33		3)	R412014739
1) Max. pressure gauge Ø in blocked state: 40 2) Reservoir: Polycarbonate 3) Reservoir: Die cast zinc 4) Protective guard: metal Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar									

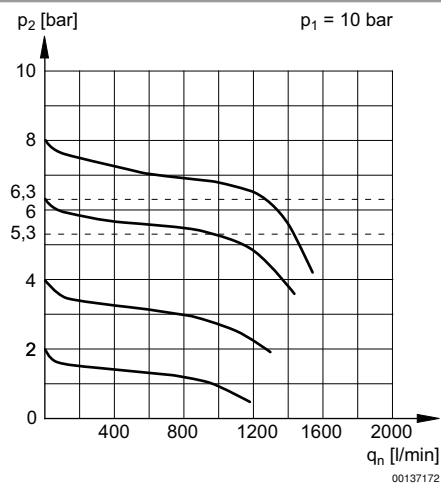
**Pressure characteristics curve**



p<sub>1</sub> = Working pressure  
 p<sub>2</sub> = Secondary pressure  
 qn = Nominal flow  
 1) = Starting point

**Filter pressure regulator, Series AS1-FRE**

▶ G 1/4 ▶ Air supply: right ▶ filter porosity: 5 µm

**Flow rate characteristic**


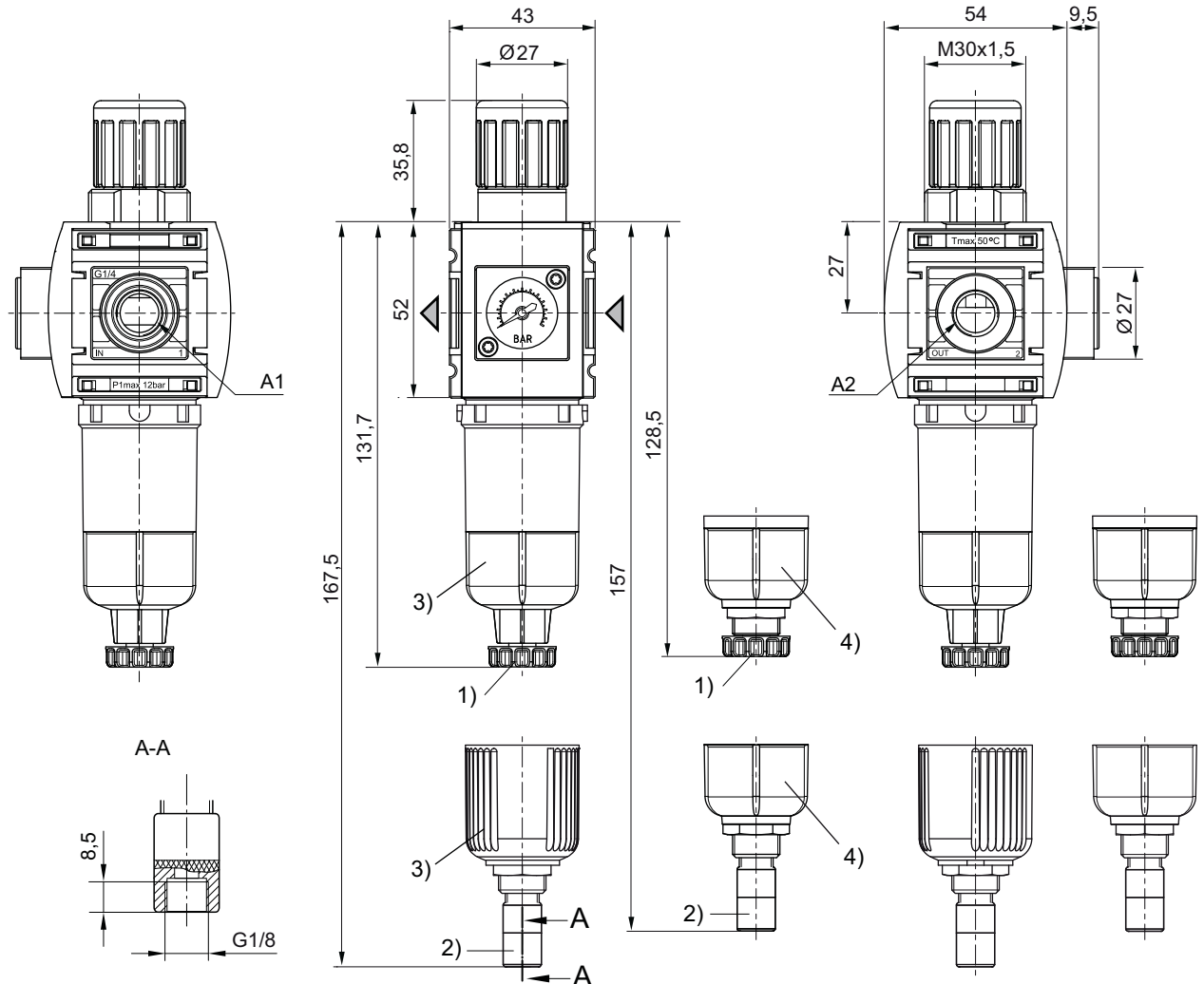
$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow



## Filter pressure regulator, Series AS1-FRE

► G 1/4 ► Air supply: right ► filter porosity: 5 µm

Dimensions, Fig. 1



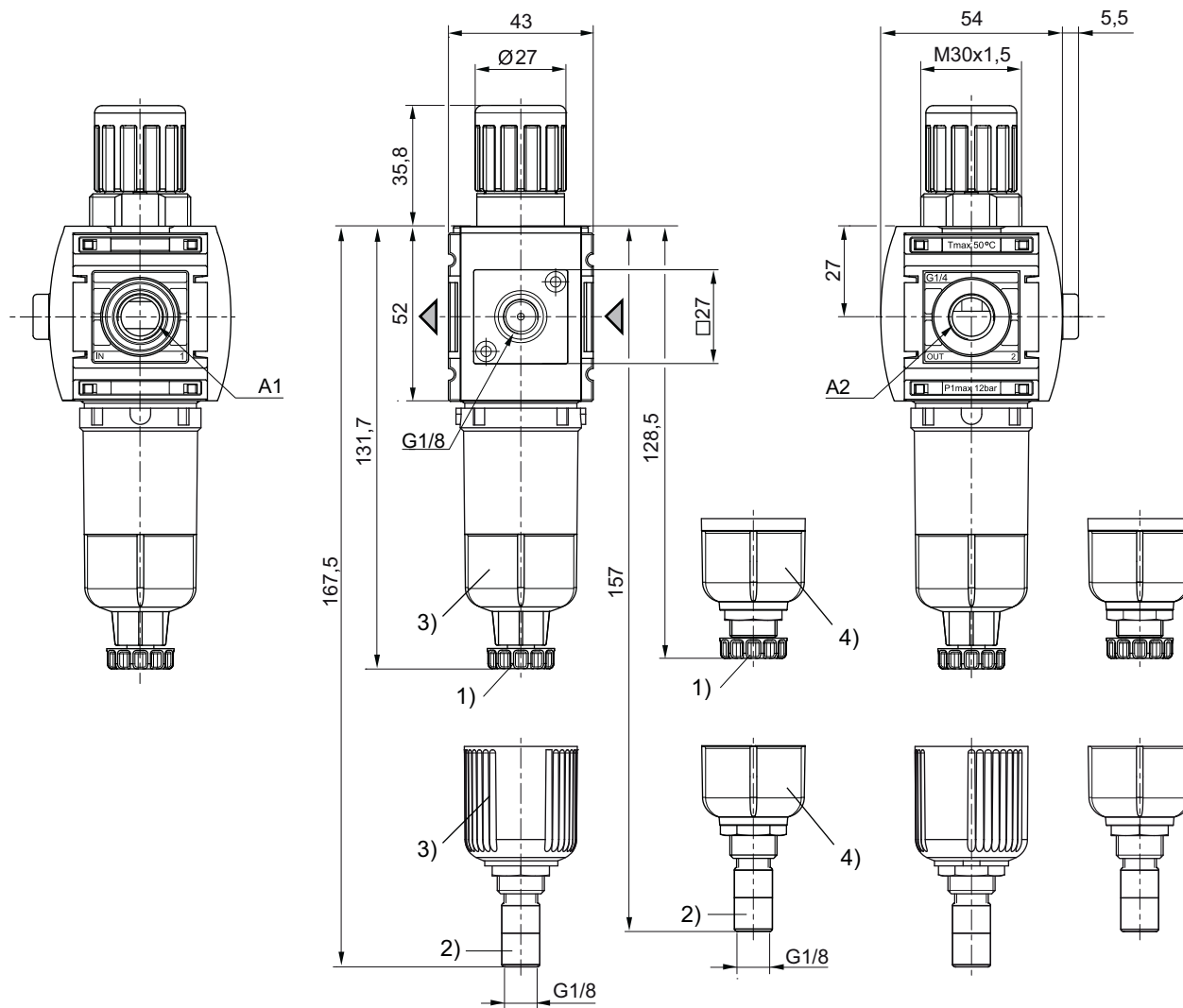
- A1 = input  
A2 = output  
1) Semi-automatic condensate drain  
2) Fully automatic condensate drain  
3) Reservoir: polycarbonate  
4) Reservoir: metal

00136220

**Filter pressure regulator, Series AS1-FRE**

► G 1/4 ► Air supply: right ► filter porosity: 5 µm

Dimensions, Fig. 2



- A1 = input  
 A2 = output  
 1) Semi-automatic condensate drain  
 2) Fully automatic condensate drain  
 3) Reservoir: polycarbonate  
 4) Reservoir: metal

00138456

## Preparation of compressed air ► Maintenance units and components

### Standard filter, Series AS1-FLS

► G 1/4 ► Air supply: right ► filter porosity: 5 µm



00137253

Version	Standard filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Filter reservoir volume	16 cm³
Filter element	exchangeable
filter porosity	5 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Cellpor

#### Technical Remarks

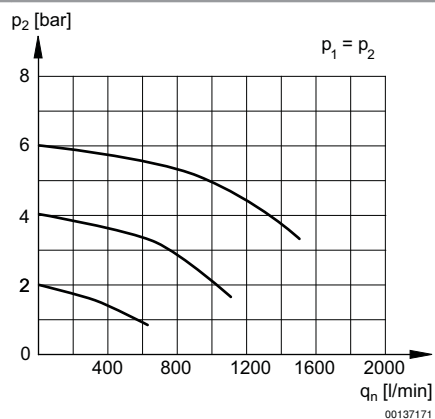
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 6

	Port	Qn	Condensate drain	Reservoir	Protective guard	Weight	Part No.
		[l/min]				[kg]	
	G 1/4	1000	semi-automatic, open without pressure	Polycarbonate	-	0.166	R412014678
			fully automatic, open without pressure	Polycarbonate	-	0.184	R412014679
			fully automatic, closed without pressure	Polycarbonate	-	0.184	R412014680
			semi-automatic, open without pressure	Polycarbonate	metal	0.193	R412014681
			semi-automatic, open without pressure	metal	-	0.243	R412014682
			fully automatic, open without pressure	metal	-	0.255	R412014683
			fully automatic, closed without pressure	metal	-	0.255	R412014684

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

**Standard filter, Series AS1-FLS**

► G 1/4 ► Air supply: right ► filter porosity: 5 µm

**Flow rate characteristic**


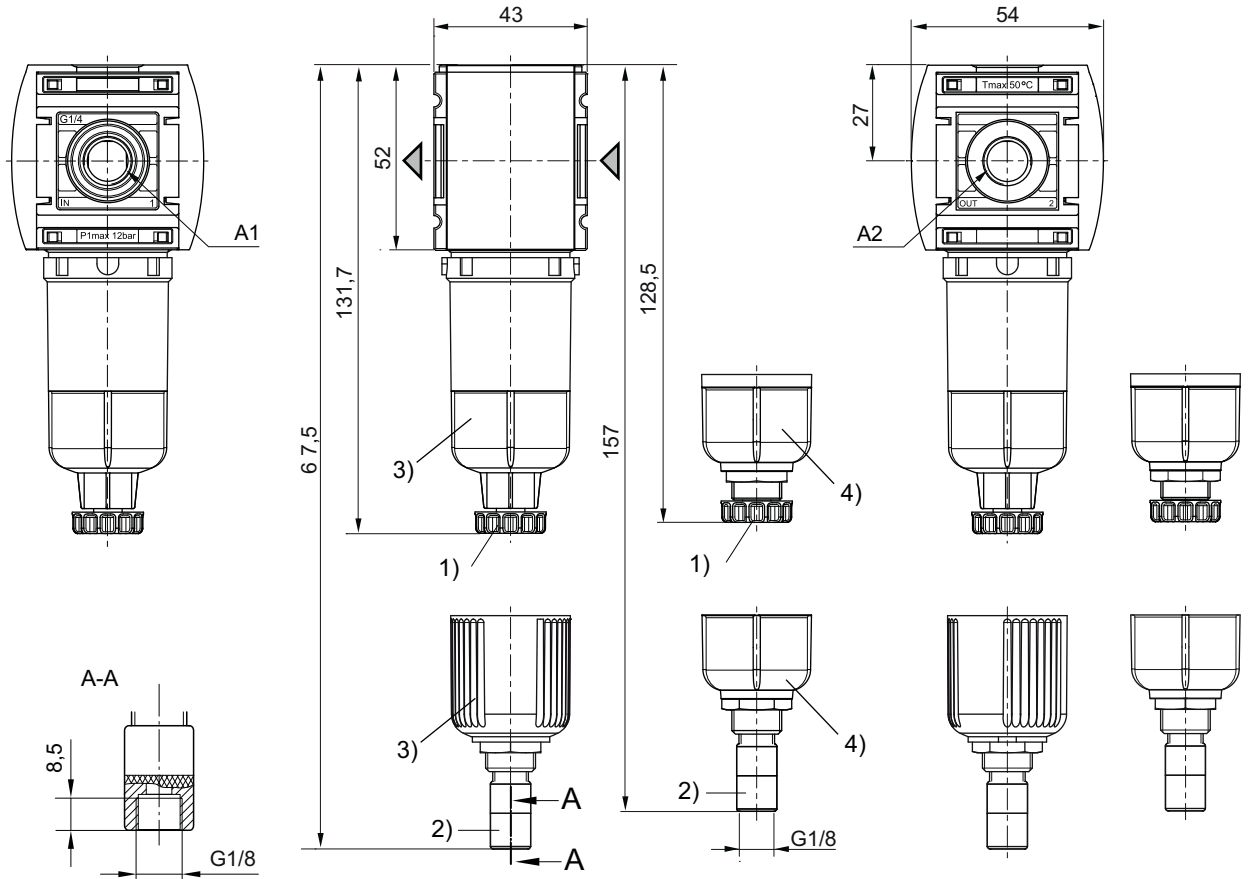
p1 = Working pressure  
 p2 = Secondary pressure  
 qn = Nominal flow

00137171

## Standard filter, Series AS1-FLS

► G 1/4 ► Air supply: right ► filter porosity: 5 µm

### Dimensions



00136362

- A1 = input  
A2 = output  
1) Semi-automatic condensate drain  
2) Fully automatic condensate drain  
3) Reservoir: polycarbonate  
4) Reservoir: metal

**Pre-filter, Series AS1-FLP**
**► G 1/4 ► Air supply: right ► filter porosity: 0.3 µm**


00137253

Version	Pre-filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Filter reservoir volume	12 cm <sup>3</sup>
Filter element	exchangeable
filter porosity	0.3 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Paper

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- max. residual oil content at the outlet: 1 mg/m<sup>3</sup>
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 2

	Port	Qn	Condensate drain	Reservoir	Protective guard	Weight	Part No.
		[l/min]				[kg]	
	G 1/4	350	semi-automatic, open without pressure	Polycarbonate	-	0.169	R412014685
			fully automatic, open without pressure	Polycarbonate	-	0.187	R412014686
			fully automatic, closed without pressure	Polycarbonate	-	0.187	R412014687
			semi-automatic, open without pressure	Polycarbonate	metal	0.202	R412014688
			semi-automatic, open without pressure	metal	-	0.246	R412014689
			fully automatic, open without pressure	metal	-	0.258	R412014690
			fully automatic, closed without pressure	metal	-	0.258	R412014691

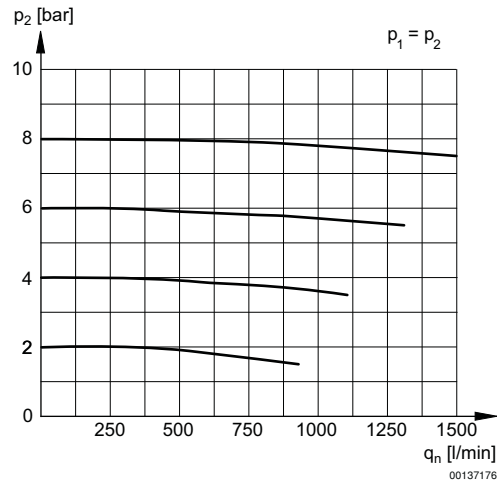
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

Preparation of compressed air ► Maintenance units and components

**Pre-filter, Series AS1-FLP**

► G 1/4 ► Air supply: right ► filter porosity: 0.3 µm

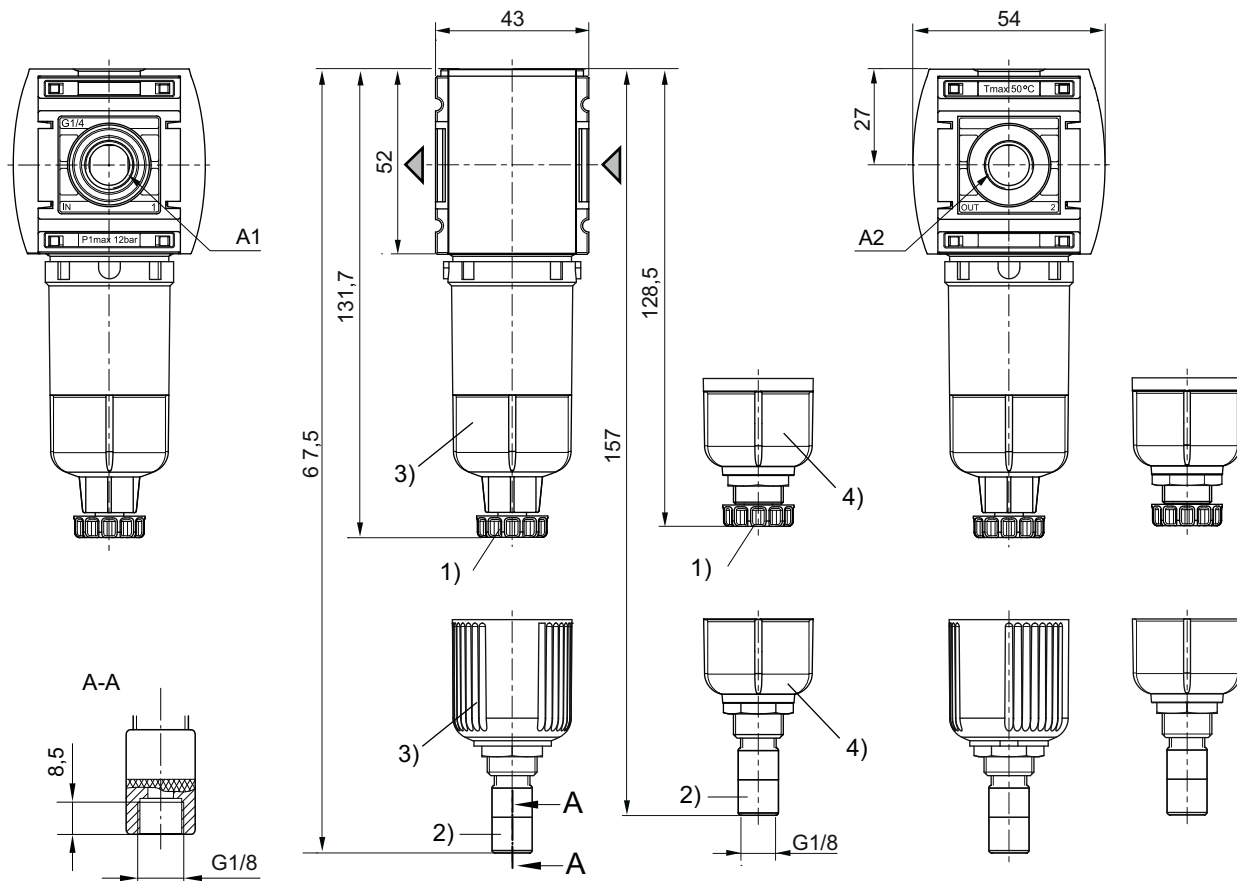
Flow rate characteristic



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

**Pre-filter, Series AS1-FLP**

► G 1/4 ► Air supply: right ► filter porosity: 0.3 µm

**Dimensions**


00136362

- A1 = input  
 A2 = output  
 1) Semi-automatic condensate drain  
 2) Fully automatic condensate drain  
 3) Reservoir: polycarbonate  
 4) Reservoir: metal



## Preparation of compressed air ► Maintenance units and components

### Microfilter, Series AS1-FLC

► G 1/4 ► Air supply: right ► filter porosity: 0.01 µm



00137254

Version	Microfilter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Filter reservoir volume	12 cm³
Filter element	exchangeable
filter porosity	0.01 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Filter insert	Borosilicate aluminum

#### Technical Remarks

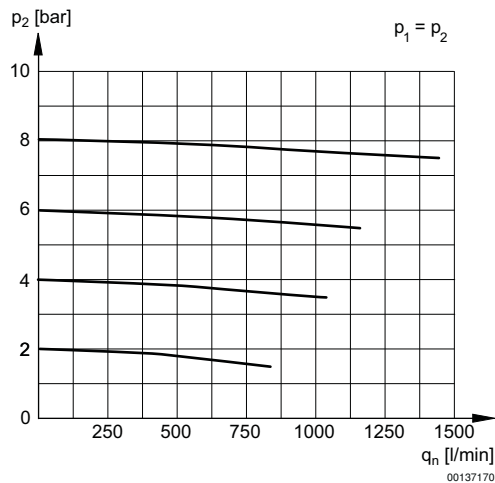
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filtering: 0.3 µm
- max. residual oil content at the outlet: 0.01 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 1

	Port	Qn	Condensate drain	Reservoir	Protective guard	Weight	Part No.
		[l/min]				[kg]	
	G 1/4	350	semi-automatic, open without pressure	Polycarbonate	-	0.169	R412014692
			fully automatic, open without pressure	Polycarbonate	-	0.187	R412014693
			fully automatic, closed without pressure	Polycarbonate	-	0.187	R412014694
			semi-automatic, open without pressure	Polycarbonate	metal	0.202	R412014695
			semi-automatic, open without pressure	metal	-	0.246	R412014696
			fully automatic, open without pressure	metal	-	0.258	R412014697
			fully automatic, closed without pressure	metal	-	0.258	R412014698

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

**Microfilter, Series AS1-FLC**

▶ G 1/4 ▶ Air supply: right ▶ filter porosity: 0.01 µm

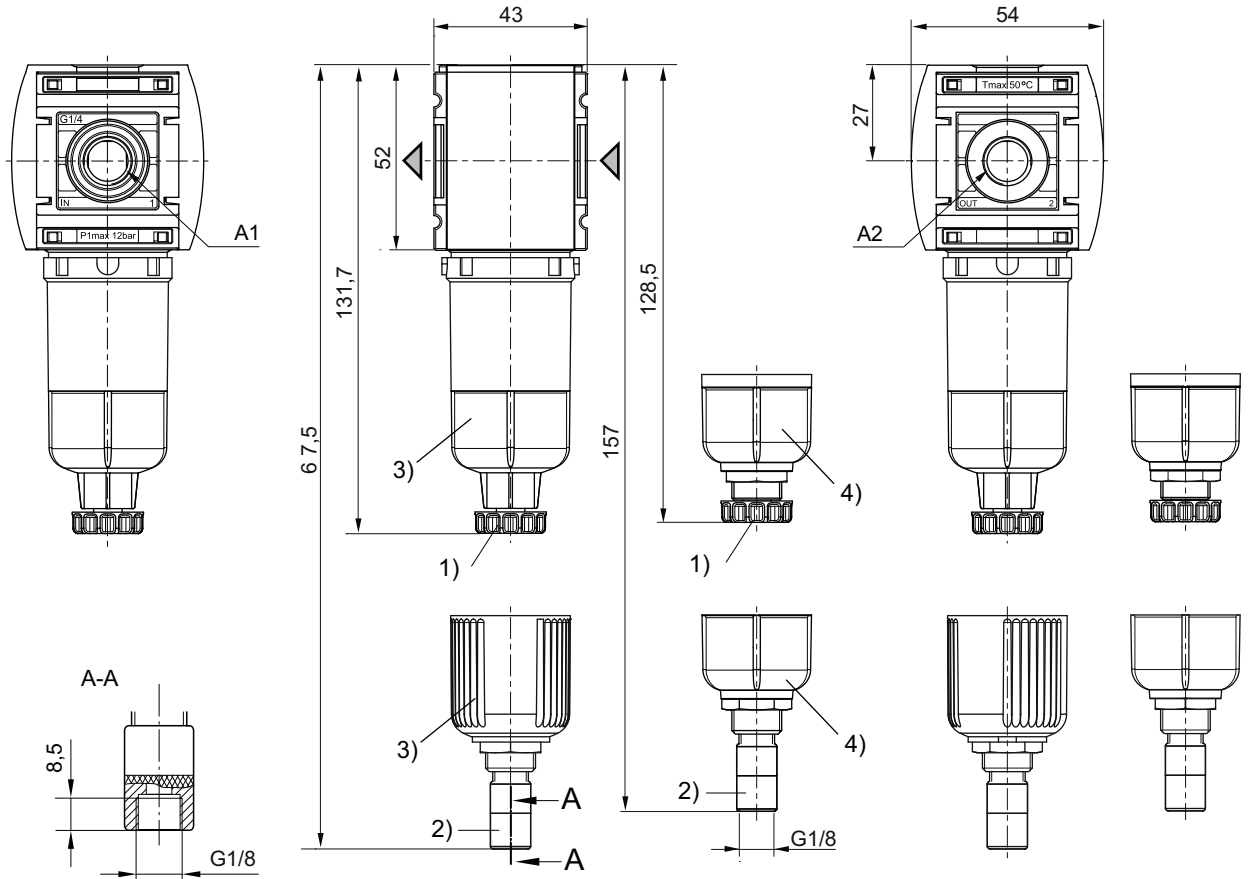
**Flow rate characteristic**


p<sub>1</sub> = Working pressure  
 p<sub>2</sub> = Secondary pressure  
 q<sub>n</sub> = Nominal flow

## Microfilter, Series AS1-FLC

► G 1/4 ► Air supply: right ► filter porosity: 0.01 µm

### Dimensions



- A1 = input  
A2 = output  
1) Semi-automatic condensate drain  
2) Fully automatic condensate drain  
3) Reservoir: polycarbonate  
4) Reservoir: metal

00136362

**Active carbon filter, Series AS1-FLA**

► G 1/4 ► Air supply: right



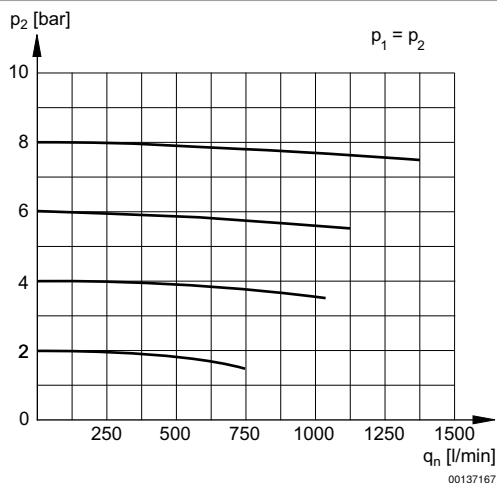
00137247

Version	Active carbon filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	0 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Filter reservoir volume	12 cm <sup>3</sup>
Filter element	exchangeable
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Filter insert	Active carbon

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filtering: 0.01 µm
- max. residual oil content at the outlet: 0.005 mg/m<sup>3</sup>
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 0

	Port	Qn [l/min]	Reservoir	Protective guard	Weight [kg]	Part No.
	G 1/4	350	Polycarbonate	-	0.171	R412014699
			Polycarbonate	metal	0.204	R412014700
			metal	-	0.232	R412014701

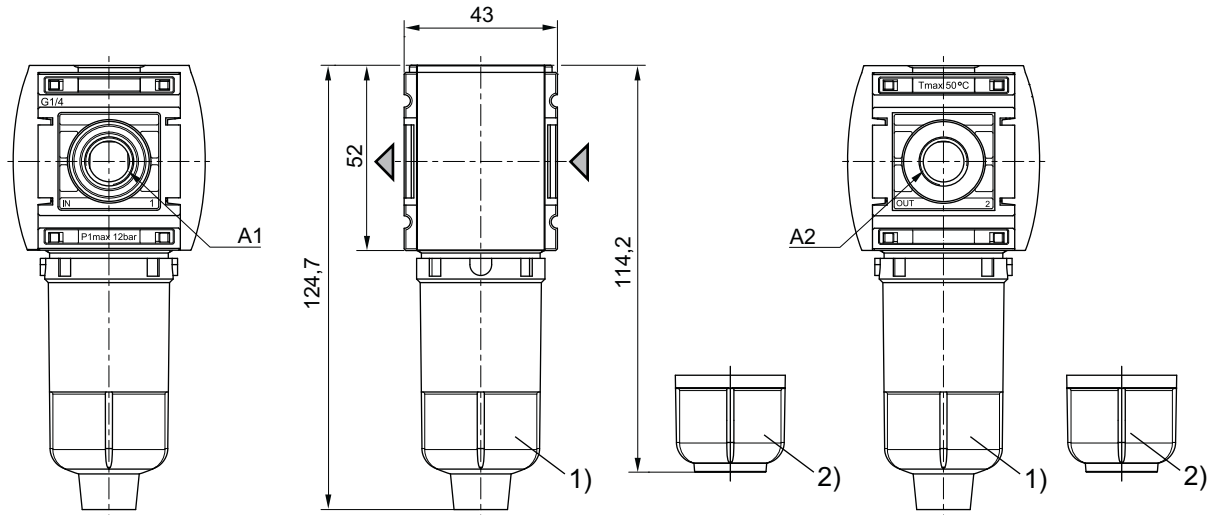
Nominal flow Qn with secondary pressure p<sub>2</sub> = 6 bar at Δp = 0,1 bar
**Flow rate characteristic**


p<sub>1</sub> = Working pressure  
p<sub>2</sub> = Secondary pressure  
q<sub>n</sub> = Nominal flow

## Active carbon filter, Series AS1-FLA

► G 1/4 ► Air supply: right

### Dimensions



00136363

- A1 = input
- A2 = output
- 1) Reservoir: polycarbonate
- 2) Reservoir: metal

**Micro oil-mist lubricator, Series AS1-LBM**
**► G 1/4 ► Air supply: right**


00137245

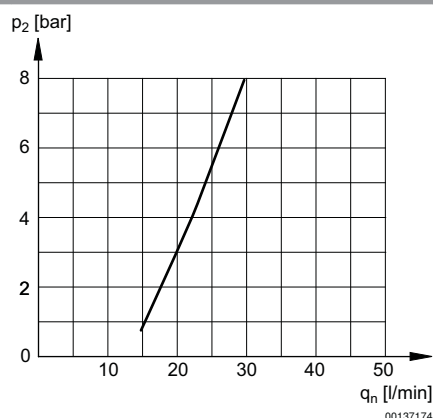
Version	Micro oil-mist lubricator, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	0.8 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Lubricator reservoir volume	35 cm <sup>3</sup>
Type of filling	Manual oil filling
Oil type	HLP 32 (DIN 51 524 - ISO VG 32) HLP 68 (DIN 51 524 - ISO VG 68)
Compressed air connection	G 1/4
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- only approx. 10% of the preset drip quantity enters the compressed air system
- oil filling not possible during operation
- Oil dosing at 1000 l/min [drops/min]: 10-20

	Qn	Reservoir	Protective guard	Weight	Part No.
	[l/min]			[kg]	
	1400	Polycarbonate	-	0.187	R412014702
		Polycarbonate	metal	0.22	R412014703
		Die cast zinc	-	0.248	R412014704

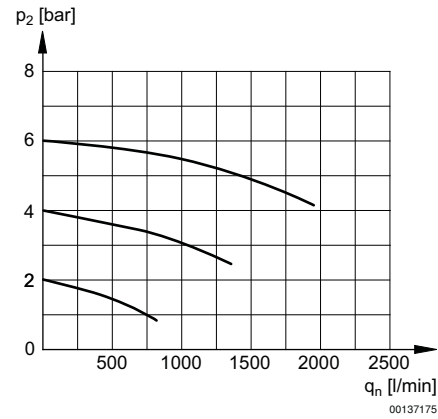
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

**Lubricator activation margin**

 p2 = secondary pressure  
 qn = nominal flow

## Micro oil-mist lubricator, Series AS1-LBM

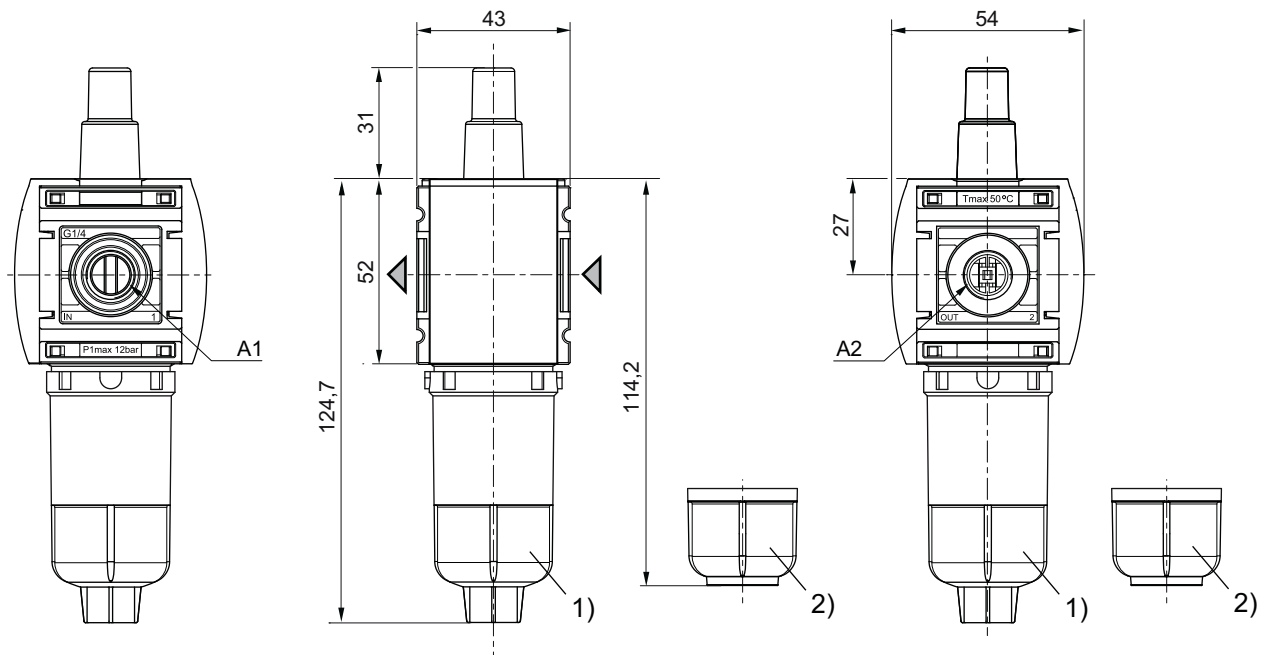
► G 1/4 ► Air supply: right

### Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow

### Dimensions



A1 = input  
A2 = output  
1) Reservoir: polycarbonate  
2) Reservoir: metal

00137733

**Filling valve, pneumatically operated, Series AS1-SSV**

▶ G 1/4 ▶ Air supply: right ▶ pipe connection



00137243

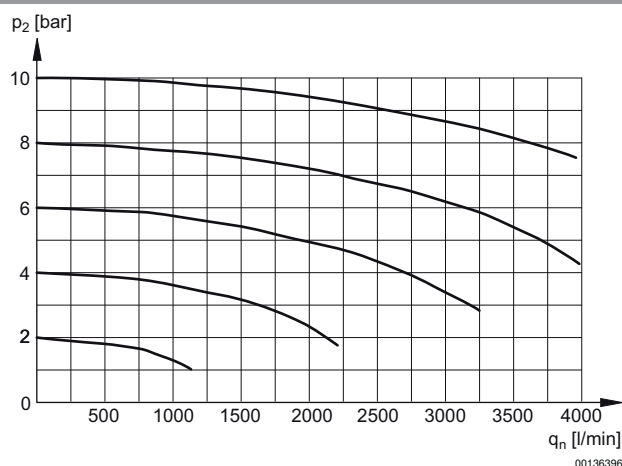
Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Sealing principle	Soft sealing
Control pressure min./max.	2.5 bar / 16 bar
Max. particle size	40 µm
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

	Port	Qn		Weight	Part No.
			1 ▶ 2		
			[l/min]	[kg]	
	G 1/4	2000	2000	0.1336	R412014749

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

**Flow rate characteristic**

 p2 = secondary pressure  
qn = nominal flow

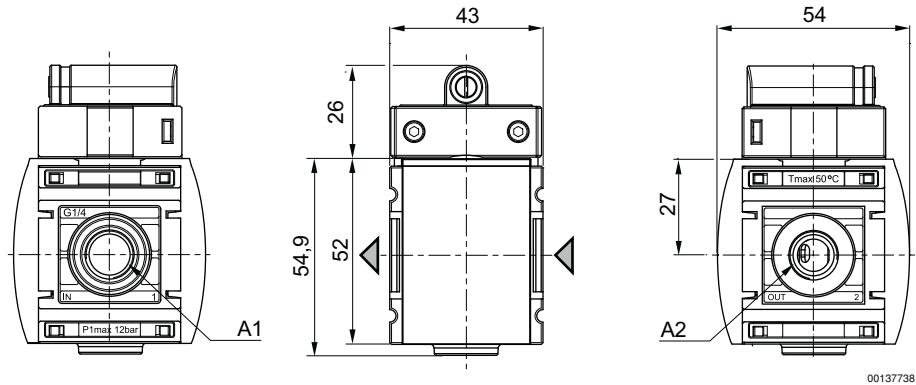


Preparation of compressed air ► Maintenance units and components

**Filling valve, pneumatically operated, Series AS1-SSV**

► G 1/4 ► Air supply: right ► pipe connection

**Dimensions**



A1 = input  
A2 = output

**3/2-directional valve, electrically operated, Series AS1-SOV**
**► ATEX optional ► G 1/4 ► Air supply: right ► pipe connection**


00137241\_a

Version	Poppet valve, Can be assembled into blocks
Nominal flow, 1►2	2000 l/min
Nominal flow, 2►3	380 l/min
Working pressure min./max.	2 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Pilot	internal
Sealing principle	Soft sealing
Max. particle size	25 µm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Protection class, with Plug Mounted	IP65
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- ATEX optional: The ATEX ID depends on the selected pilot valve.

Operational voltage			Power consumption	Switch-on power		Holding power
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
			W	VA	VA	VA
24 V	-	-	2	-	-	-
-	230 V	230 V	-	3	3	1.6

		Port	Exhaust	Operational voltage			Electr. connection	Weight	Fig.	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz					
								[kg]			
	-	G 1/4	G 1/4	-	-	-	-	0.1964	Fig. 1	1); 4)	R412014747
								0.2096		2); 4)	R412014748
	=	G 1/4	G 1/4	24 V	-	-	Plug, ISO 15217, form C	0.2154	Fig. 2	3)	R412014744
				-	230 V	230 V	Plug, ISO 15217, form C	0.2143	Fig. 2		R412014746
				24 V	-	-	Plug, M12	0.2321	Fig. 3		<b>R412010681</b>

- 1) Basic valve without pilot valve  
 2) Basic valve without pilot valve, with CNOMO subbase  
 3) Basic valve with pilot valve  
 4) ATEX optional  
 Nominal flow Q<sub>n</sub> with secondary pressure p<sub>2</sub> = 6 bar at Δp = 1 bar

Preparation of compressed air ► Maintenance units and components

**3/2-directional valve, electrically operated, Series AS1-SOV**

► ATEX optional ► G 1/4 ► Air supply: right ► pipe connection

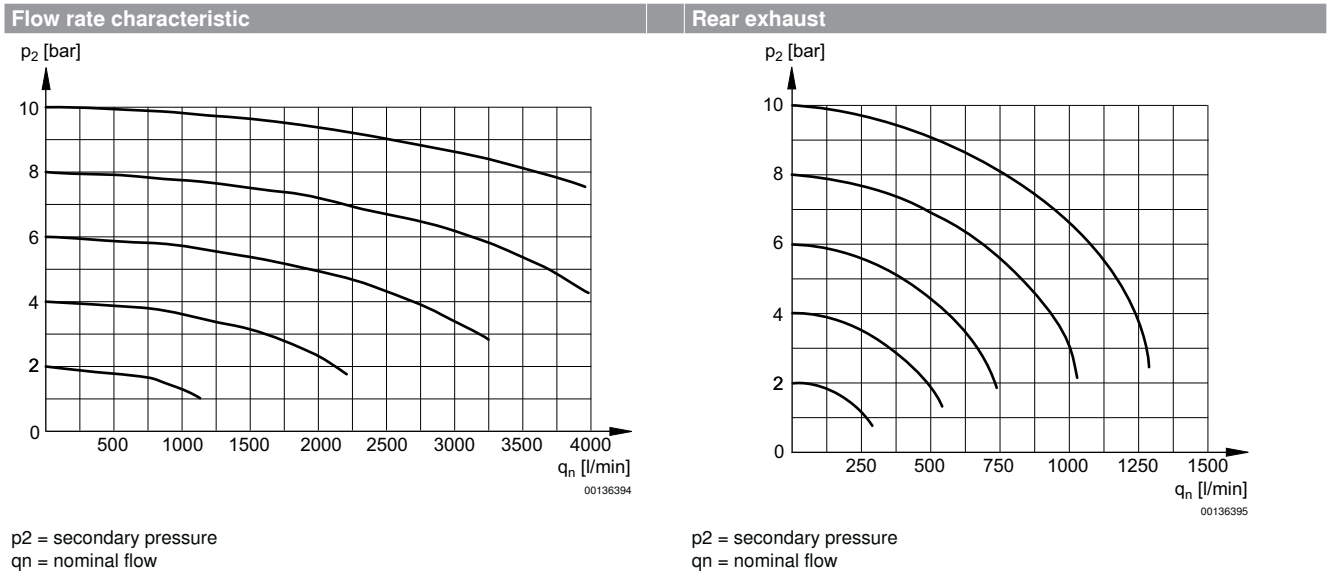
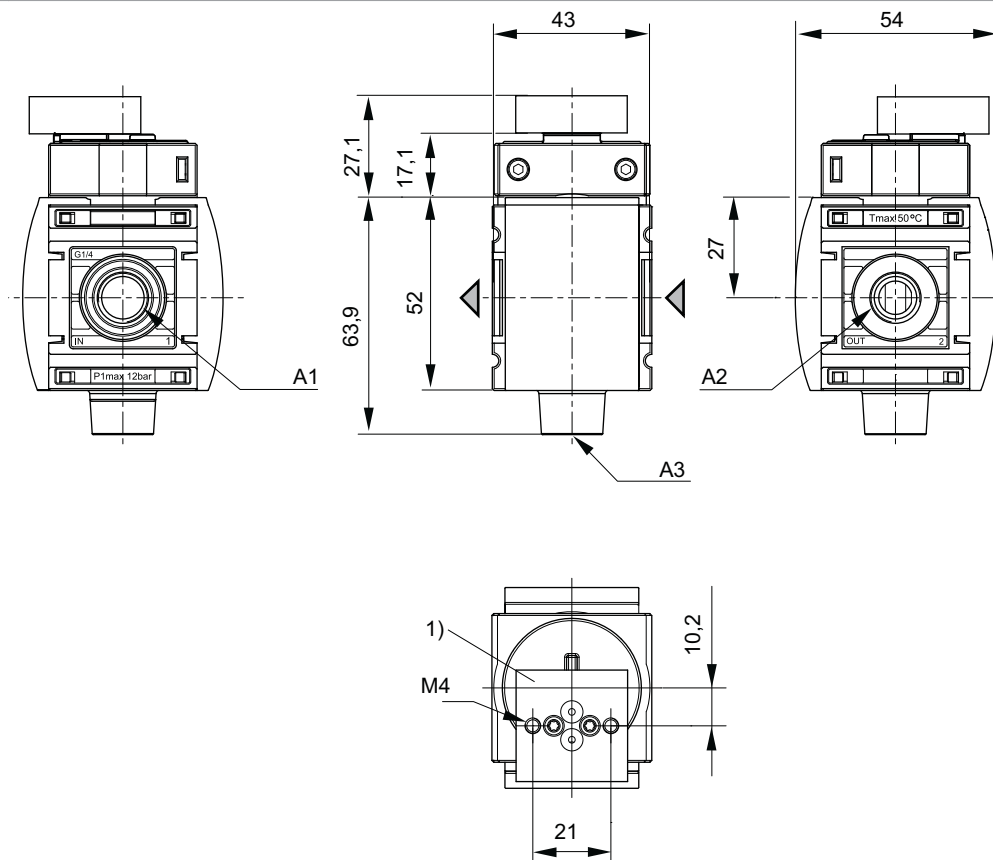


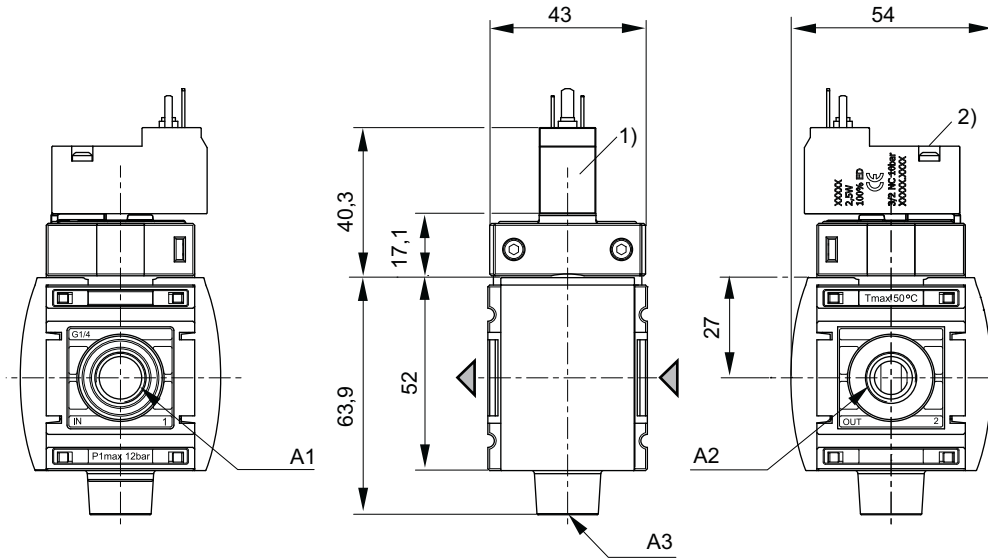
Fig. 1: 3/2-directional valve with transition plate for pilot valve series DO30



A1 = input  
 A2 = output  
 A3 = ventilation port  
 1) Transition plate with CNOMO porting configuration for pilot valve DO30

**3/2-directional valve, electrically operated, Series AS1-SOV**

▶ ATEX optional ▶ G 1/4 ▶ Air supply: right ▶ pipe connection

**Fig. 2: 3/2-directional valve with pilot valve and port for electrical connector form C**


00137735

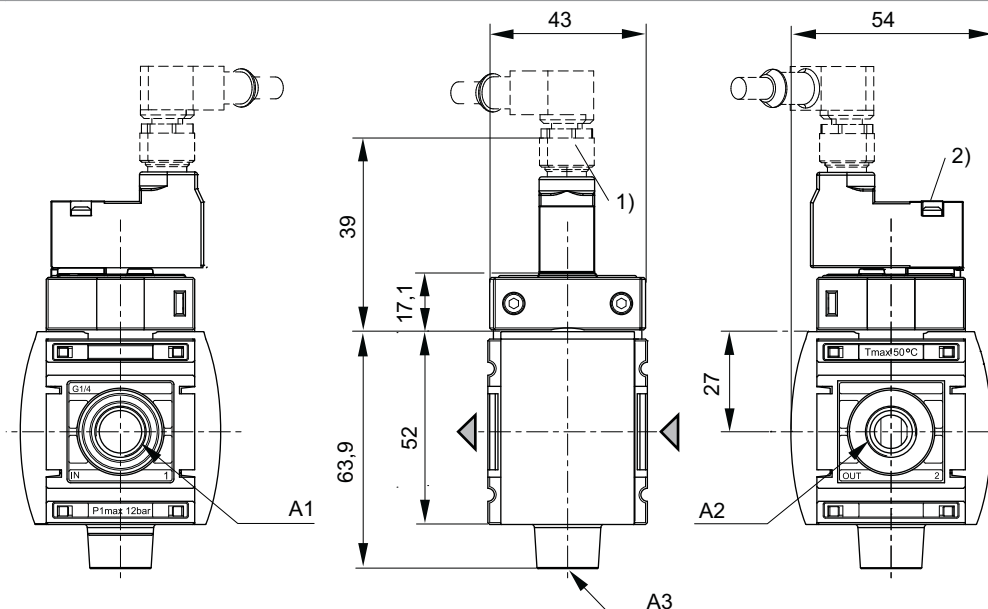
A1 = input

A2 = output

A3 = ventilation port

1) For electrical connector according to ISO 15217 (form C)

2) Manual override

**Fig. 3: 3/2-directional valve with pilot valve, push-in fitting M12x1**


20441

A1 = input

A2 = output

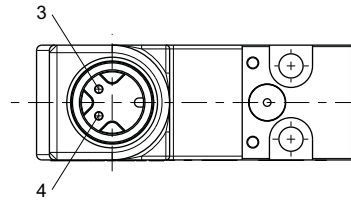
A3 = ventilation port

1) plug M12

2) Manual override

**Preparation of compressed air ► Maintenance units and components**
**3/2-directional valve, electrically operated, Series AS1-SOV**

► ATEX optional ► G 1/4 ► Air supply: right ► pipe connection

**Pin assignment M12x1**


20438

3: +/-

4: +/-

3/2-directional valve, pneumatically operated, Series AS1-SOV  
▶ G 1/4 ▶ Air supply: right ▶ pipe connection



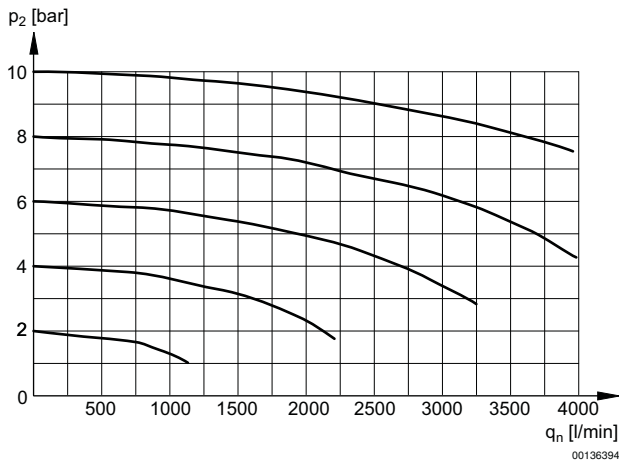
Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Sealing principle	Soft sealing
Control pressure min./max.	2.5 bar / 16 bar
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

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

	Port	Exhaust	Qn			Weight	Part No.
			1▶2	2▶3	[l/min]		
	G 1/4	G 1/4	2000	2000	380	0.09	R412014743

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

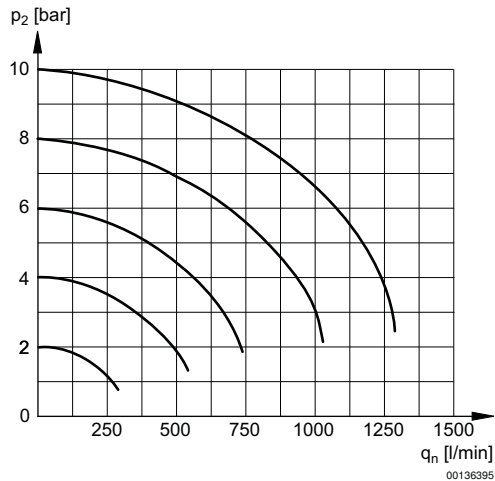
Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow

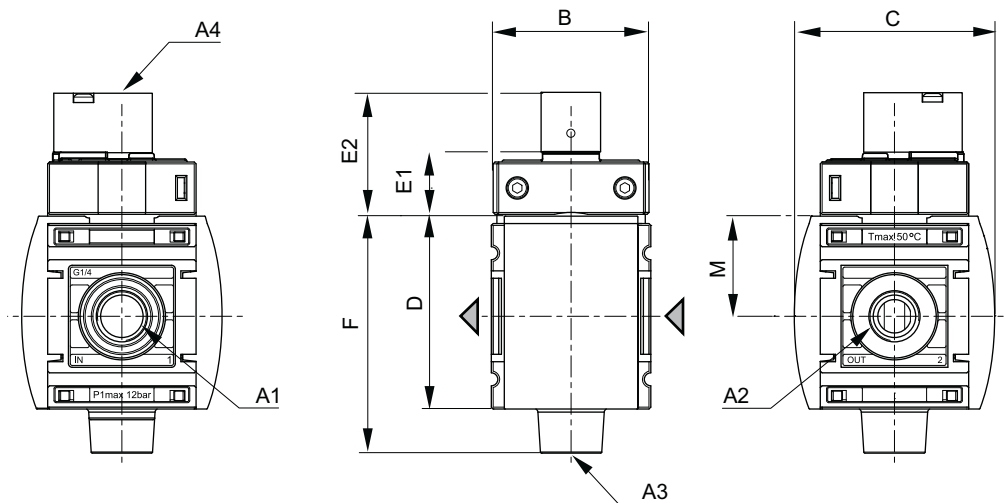
3/2-directional valve, pneumatically operated, Series AS1-SOV  
▶ G 1/4 ▶ Air supply: right ▶ pipe connection

Rear exhaust



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

Dimensions



A1 = input  
A2 = output  
A3 = ventilation port  
A4 = control pressure connection

Part No.	A1	A2	A3	A4	B	C	D	E1	E2	F	M	
R412014743	G 1/4	G 1/4	G 1/4	G 1/8	43	54	52	17.1	33.1	63.9	27	

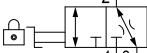
3/2-shut-off valve, mechanically operated, Series AS1-BAV  
▶ G 1/4 ▶ Air supply: right



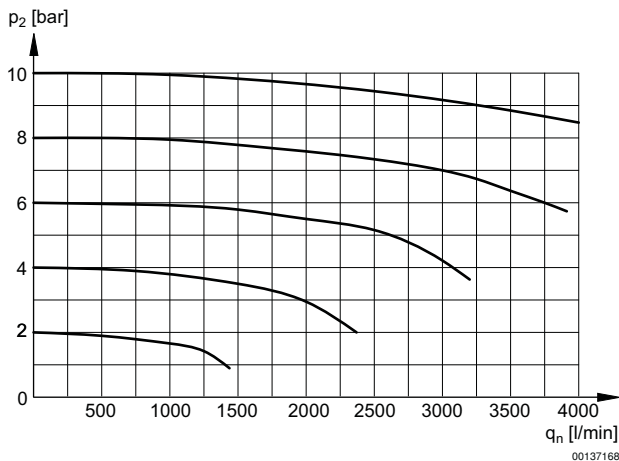
00137244

Version	Ball valve, Can be assembled into blocks for padlocks lockable
Working pressure min./max.	0 bar / 12 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Actuating element	rotary switch
Max. particle size	25 µm
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Actuating element	Polyoxymethylene

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

	Port	Exhaust	Qn		Weight	Part No.
			1▶2	2▶3		
			[l/min]		[kg]	
	G 1/4	G 1/4	2600	380	0.15	<b>R412014742</b>
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar						

Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow

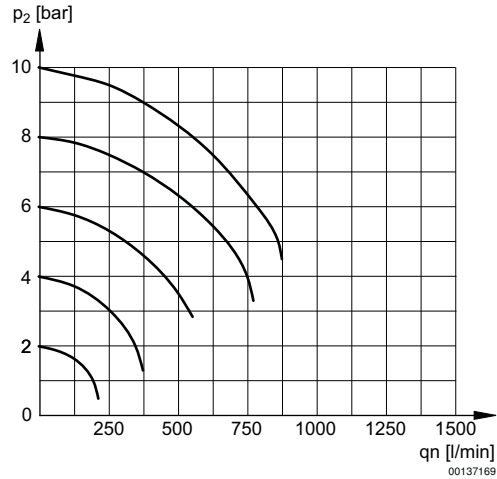


Preparation of compressed air ► Maintenance units and components

**3/2-shut-off valve, mechanically operated, Series AS1-BAV**

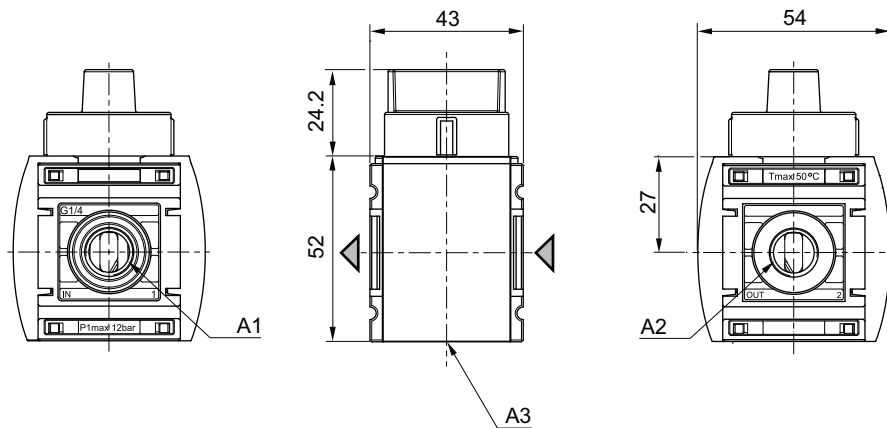
► G 1/4 ► Air supply: right

**Rear exhaust**



p2 = secondary pressure  
qn = nominal flow

**Dimensions**



A1 = input  
A2 = output  
A3 = ventilation port

Distributor, Series AS1-DIS

▶ G 1/4 ▶ Air supply: right ▶ Distributor 2x ▶ Distributor



00137242

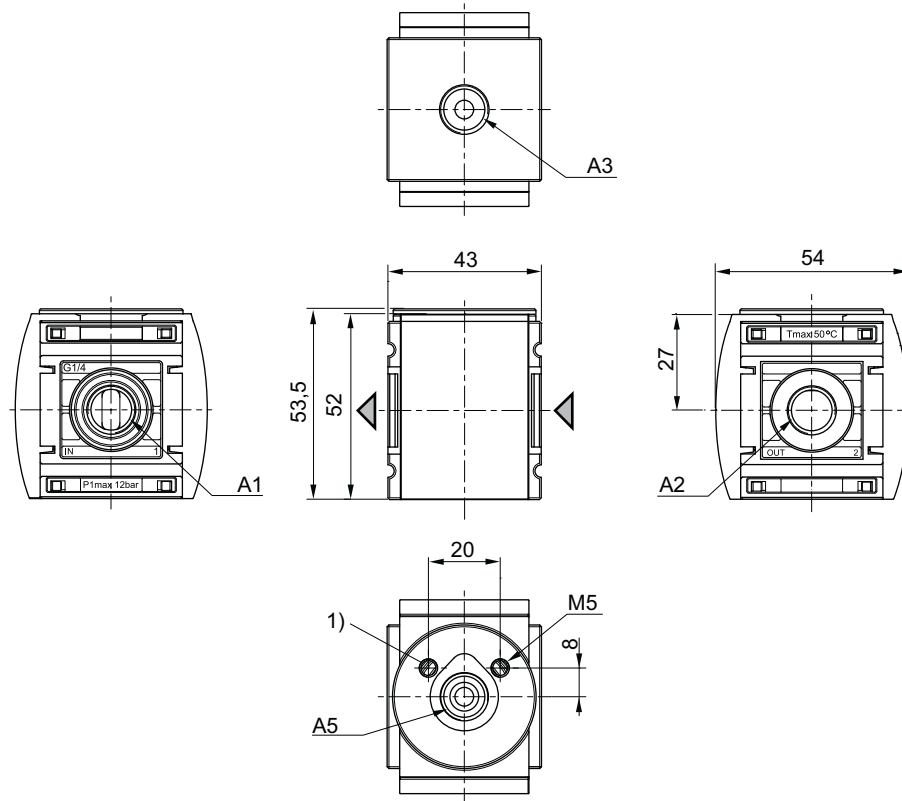
Version	Distributor, Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0 bar / 12 bar
Medium	Compressed air
	Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

	Port	Qn			Weight	Part No.
		1►2	1►3	1►5		
		[l/min]			[kg]	
	G 1/4	2700	950	2000	0.148	R412014740
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar						

## Distributor, Series AS1-DIS

► G 1/4 ► Air supply: right ► Distributor 2x ► Distributor

### Dimensions



00137740


- A1 = input
- A2 = output
- A3 = output
- A5 = output
- 1) Mounting thread for pressure sensor

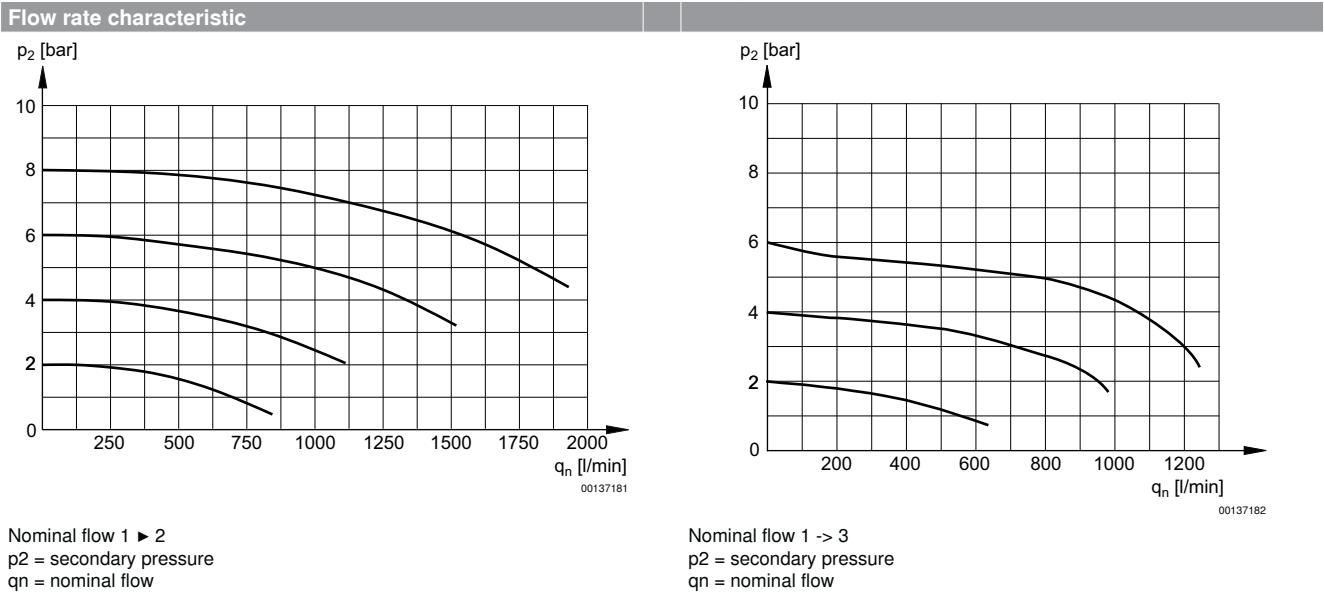
Distributor, Series AS1-DIN  
▶ G 1/4 ▶ Air supply: right ▶ Distributor 1x ▶ Non-return valve



00137240

Version	Non-return valve, Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0 bar / 12 bar
Medium	Compressed air
	Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

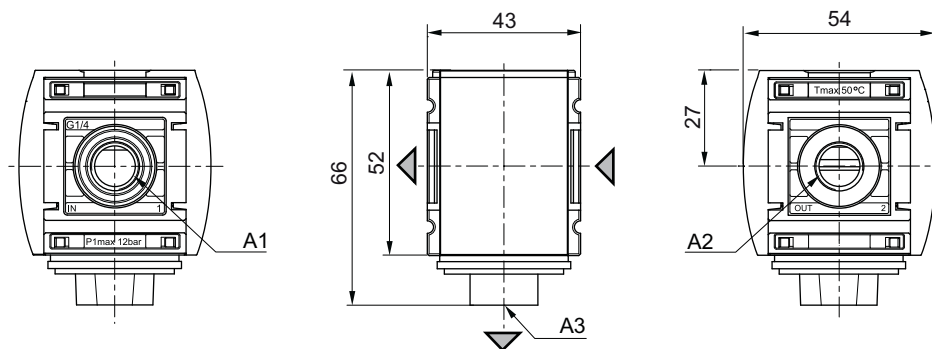
	Port	Qn		Weight	Part No.
		1 ► 2	1 ► 3		
		[l/min]		[kg]	
	G 1/4	800	1000	0.178	R412014741
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar					



## Distributor, Series AS1-DIN

► G 1/4 ► Air supply: right ► Distributor 1x ► Non-return valve

### Dimensions



00137741

A1 = input  
A2 = output  
A3 = output

Series AS1  
Accessories

Reservoir, Series AS1-CLS  
▶ Material: Polycarbonate, Die cast zinc



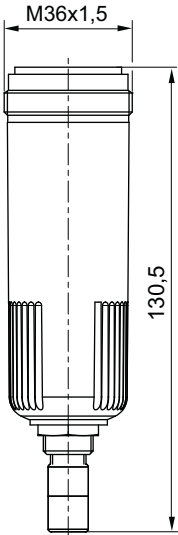
22703

Version	Reservoir
Ambient temperature min./max.	-10°C / +50°C
Medium temperature min./max.	-10°C / +50°C
Medium	Compressed air
Filter reservoir volume	16 cm³
Materials:	
Seal	Acrylonitrile Butadiene Rubber

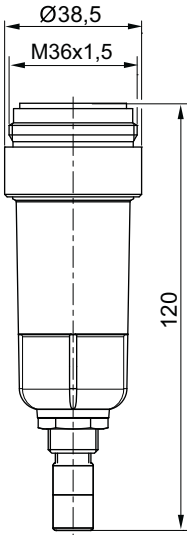
Condensate drain	Reservoir	Weight	Fig.	Part No.
		[kg]		
fully automatic, closed without pressure	Polycarbonate	0.053	Fig. 1	R412014750
fully automatic, open without pressure	Die cast zinc	0.125	Fig. 2	R412014751
fully automatic, closed without pressure	Die cast zinc	0.125	Fig. 2	R412014752
semi-automatic, open without pressure	Die cast zinc	0.153	Fig. 3	<b>1827009640</b>
	Polycarbonate	0.085	Fig. 4	<b>1827009639</b>

Fig. 1

Fig. 2



00137150

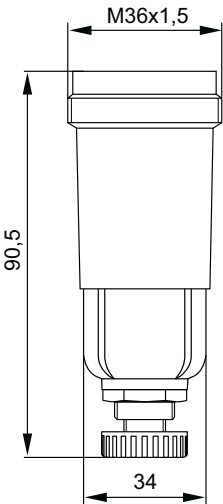


00138450

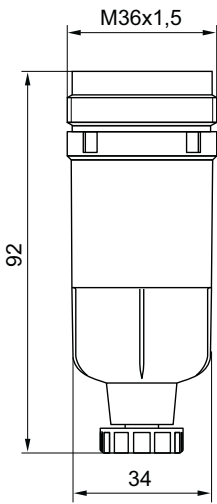
Series AS1  
Accessories

Fig. 3

Fig. 4



00112013\_1



00112013\_2

Reservoir, Series NL1/AS1-CBM/-CLA  
► for active carbon filter and lubricator ► Material: Polycarbonate, Die cast zinc

Version	Reservoir
Ambient temperature min./max.	-10°C / +50°C
Medium temperature min./max.	-10°C / +50°C
Working pressure min./max.	16 bar
Medium	Compressed air
	Oil
Filter reservoir volume	16 cm³
Materials:	
Seal	Acrylonitrile Butadiene Rubber

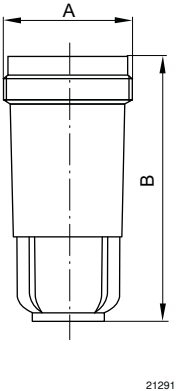
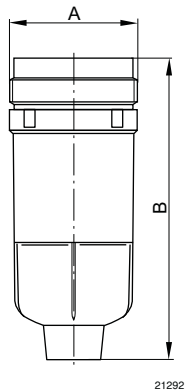
00107352\_1

Reservoir	Weight [kg]	Fig.	Part No.
Polycarbonate	0.06	Fig. 1	<b>1827009637</b>
Die cast zinc	0.125	Fig. 2	1827009638

Series AS1  
Accessories

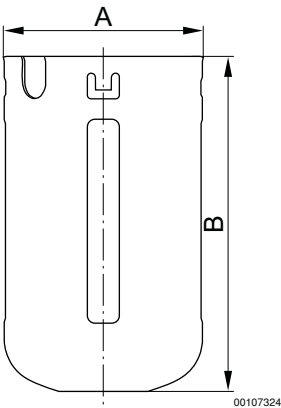
Dimensions, Fig. 1

Fig. 2



Part No.	A	B										
<b>1827009637</b>	M36x1,5	85										
1827009638	M36x1,5	74.5										

Protective guard  
▶ Series NL1 ▶ Filter, Lubricator



Part No.	A	B	Material	Surface	Weight [kg]				
<b>1820507004</b>	37	63	Steel	galvanized	0.03				
Can be retrofitted for PC reservoir									



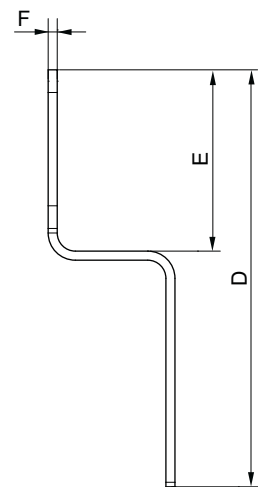
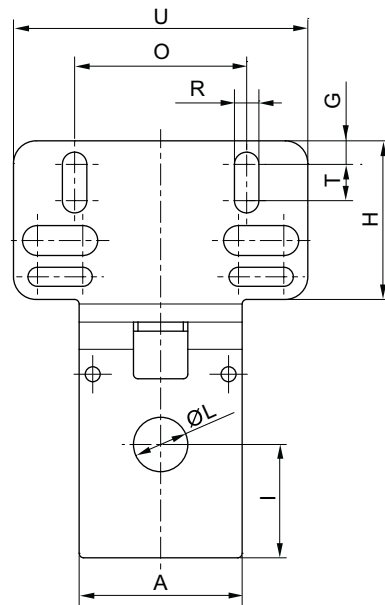
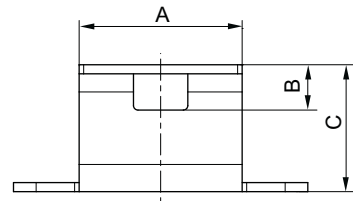
## Series AS1

### Accessories

#### Mounting plate, Series AS1-MBR-...-W01



00137836



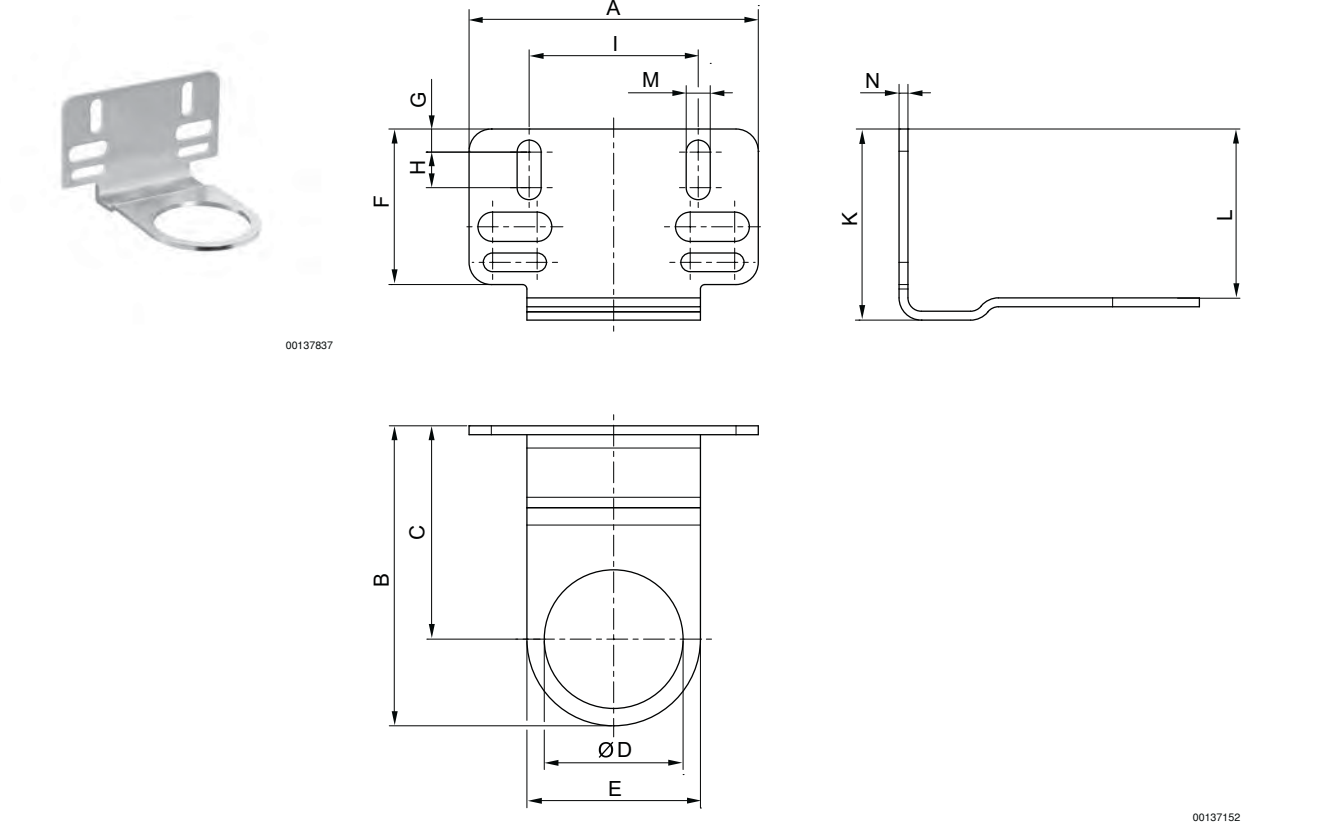
00137151

Part No.	A	B	C	D	E	F	G	H	I	Ø L	O	R
<b>R412014755</b>	36	10	28	92	40	2	5.2	35	25	12	38	5.4
Part No.	T	U	Material	Surface	Weight [kg]	Ambient temperature min./max. [C°]						
<b>R412014755</b>	8	65	Steel	galvanized	0.07	-10 / +50						

Scope of delivery incl. 2 mounting screws 3x10 (Torx 10 IP) DIN EN ISO 10664

Series AS1  
Accessories

Mounting bracket, Series AS1-MBR-...-W02



Part No.	A	B	C	Ø D	E	F	G	H	I	K	L	M
<b>R412014756</b>	65	67.5	48	31.2	39	35	5.2	8	38	43	38	5.4
Part No.	N	Material	Surface	Weight [kg]	Ambient temperature min./max. [C°]							
<b>R412014756</b>	2	Steel	galvanized	0.059	-10 / +50							

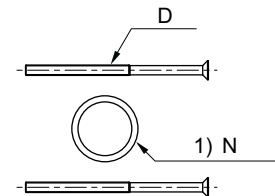
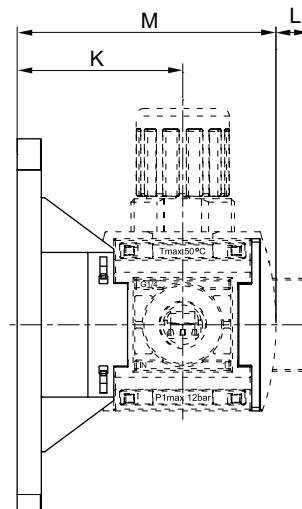
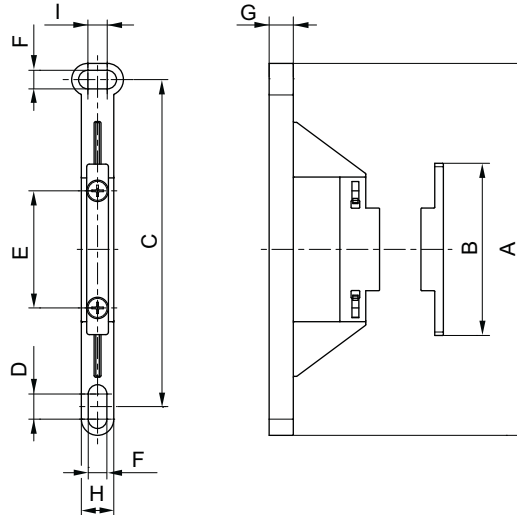
Scope of delivery incl. 2 mounting screws 3x10 (Torx 10 IP) DIN EN ISO 10664

**Series AS1**  
Accessories

**Mounting clip, Series AS1-MBR-...-W03**



00119388



00137158

Part No.	A	B	C	D	E	F	G	H	I	K	L	M
<b>R412014757</b>	108	50	95	7.3	34	5.4	7	9.4	5.6	48	9.5	75

Part No.	N	O	Material	Material Seal	Weight [kg]	Ambient temperature min./max. [C°]
<b>R412014757</b>	15,6x1,78	M3x53	Polyamide	Acrylonitrile Butadiene Rubber	0.025	-10 / +50

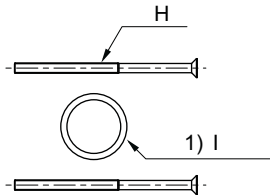
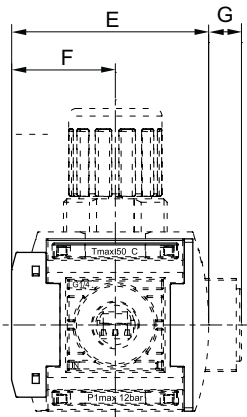
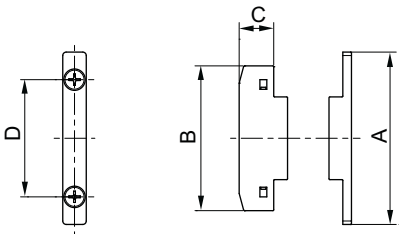
Scope of delivery incl. 2 mounting screws M3x53-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

Series AS1  
Accessories

Block assembly kit, Series AS1-MBR-...-W04



00137838



00137156

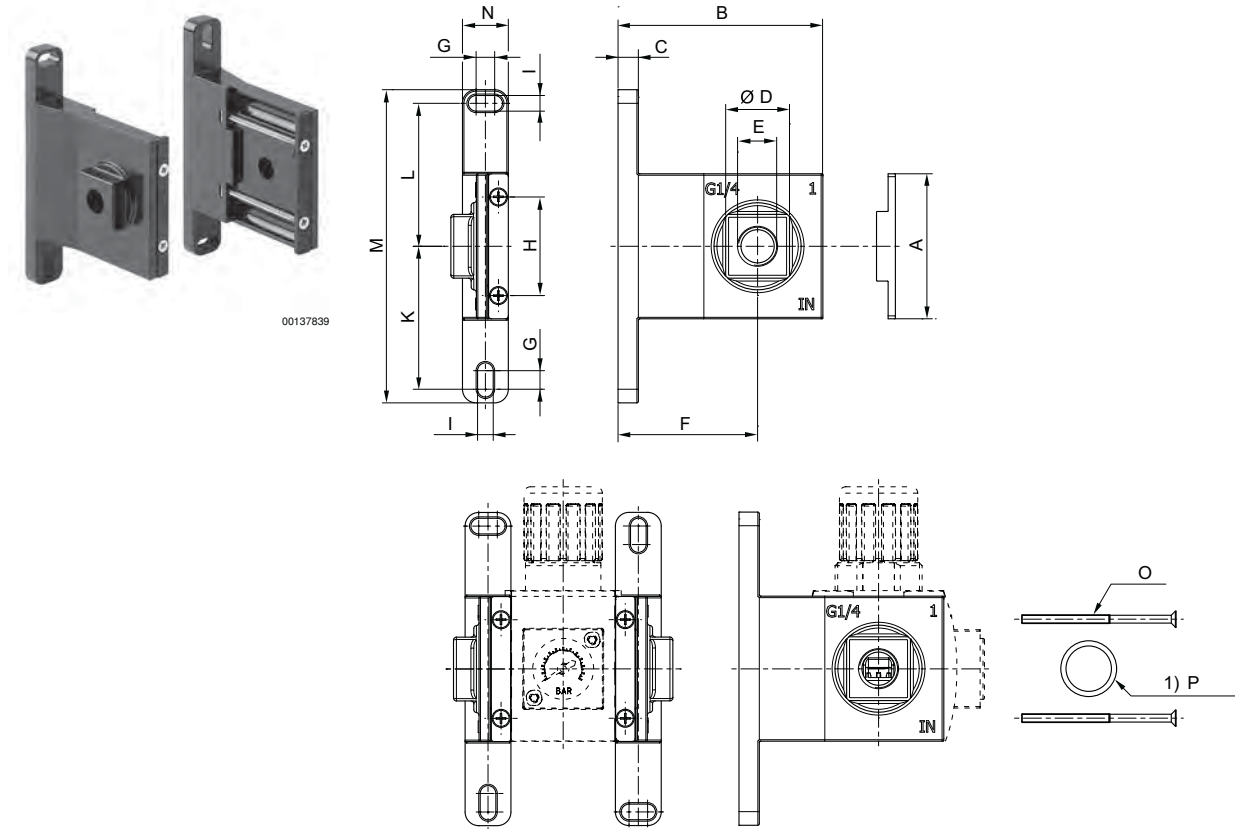
Part No.	A	B	C	D	E	F	G	H	I	Material
<b>R412014758</b>	50	42	10	34	57	30	9.5	M3x53	15,6x1,78	Polyamide

Part No.	Material Seal	Weight [kg]	Ambient temperature min./max. [C°]							
<b>R412014758</b>	Acrylonitrile Butadiene Rubber	0.014	-10 / +50							

Scope of delivery incl. 2 mounting screws M3x53-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

**Series AS1**  
Accessories

**Block assembly kit, Series AS1-MBR-...-W05**



00137159

Part No.	A	B	C	Ø D	E	F	G	H	I	K	L	M
<b>R412014753</b>	50	70.5	7	22	G 1/8	48.1	6.4	34	5.4	49.3	49.3	108
<b>R412014754</b>	50	70.5	7	22	G 1/4	48.1	6.4	34	5.4	49.3	49.3	108

Part No.	N	O	P	Material	Surface	Material Seal	Weight [kg]
<b>R412014753</b>	15.8	M3x53	15,6x1,78	Die cast zinc	black painted	Acrylonitrile Butadiene Rubber	0.403
<b>R412014754</b>	15.8	M3x53	15,6x1,78	Die cast zinc	black painted	Acrylonitrile Butadiene Rubber	0.403

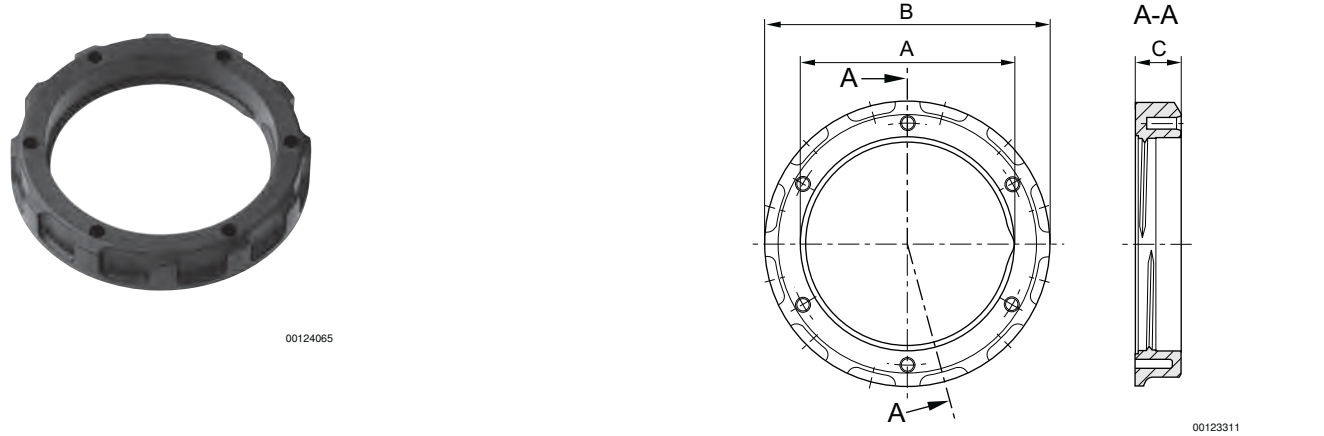
Part No.	Ambient temperature min./ max. [C°]										
<b>R412014753</b>	-10 / +50										
<b>R412014754</b>	-10 / +50										

Scope of delivery incl. 4 mounting screws M3x53-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 2x O-ring

Series AS1

Accessories

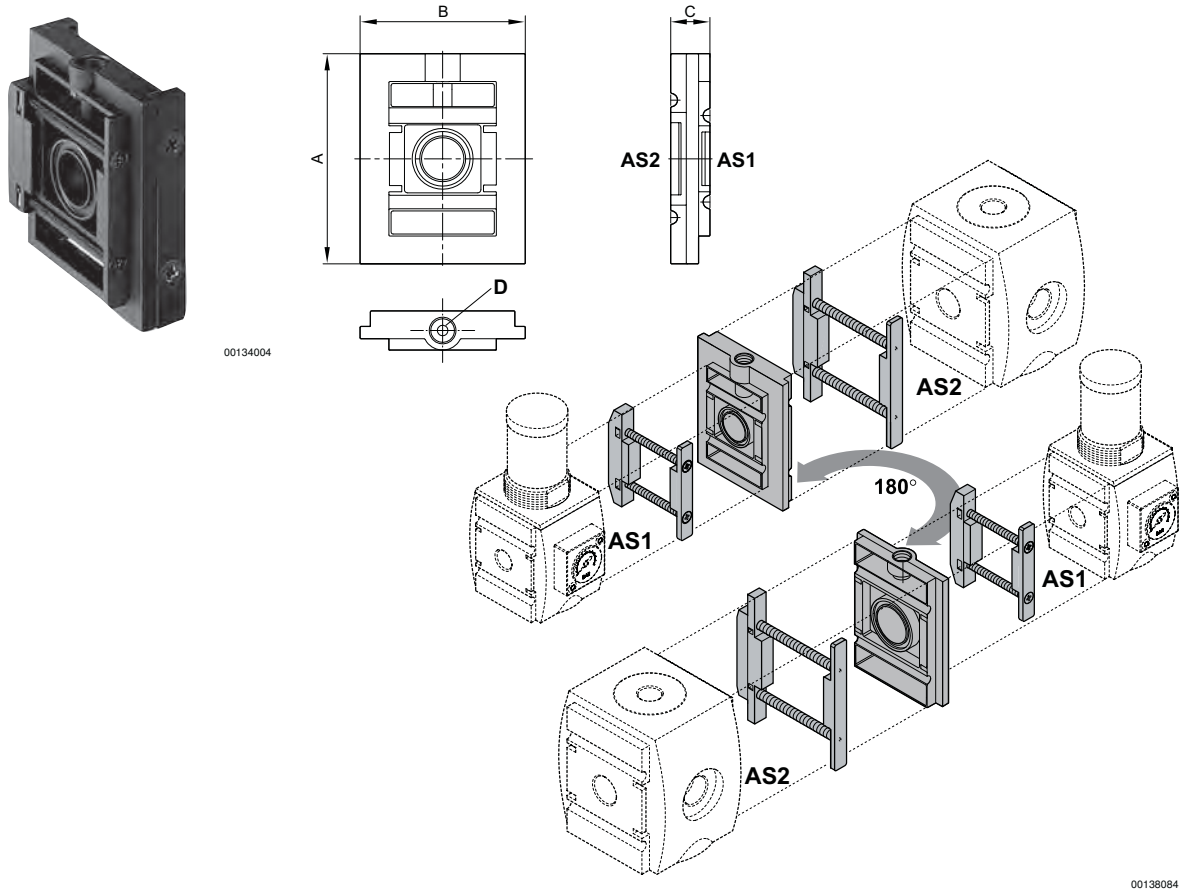
Panel nut



Part No.	usage Series	A	B	C	Material	Weight [kg]	Delivery quantity [Piece]	
<b>1829234070</b>	AS1 MU1 NL1 NL2 NL4	M30x1,5	35	5.5	Brass	0.013	5	
<b>1829234073</b>	AS1 NL1 NL2 NL4	M30x1,5	37.5	7.5	Plastic	0.006	5	

Series AS1  
Accessories

Block assembly kit, Series AS1/AS2-MBR-...-W07




Part No.	A	B	C	D	Material	Weight [kg]					
<b>R412014759</b>	62	47.5	14	G 1/8	Polyamide	0.055					
Scope of delivery incl. 1 blanking screw and 2 mounting strap kits											

Series AS1  
Accessories

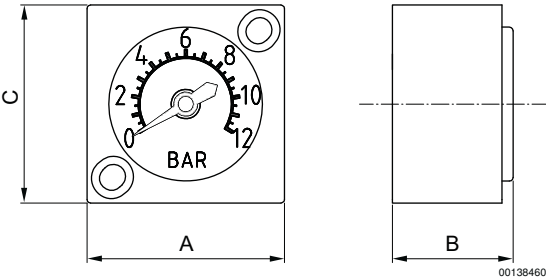
Pressure gauge, Series PG1-INT  
▶ flange version ▶ Background color: White ▶ Scale color: Black ▶ Viewing window: Polycarbonate ▶ Units: bar

Version	Diaphragm pressure gauge
Main scale unit (outside)	bar
Ambient temperature min./max.	+0 °C / +60 °C
Medium	Compressed air
Pointer color	Black
Main scale color (outside)	Black
Materials:	
Housing	Polyamide
Viewing window	Polycarbonate
Seal	Nitrile butadiene rubber

13802

	Range of appli- cation	Display range	Operating pres- sure	Scale value	Weight	Part No.
	[bar]	[bar]	[bar]		[kg]	
	0 - 6	0 - 6	0 / 6	0.25	0.024	R412014760
	0 - 12	0 - 12	0 / 12			R412014761

Dimensions



A	B	C												
27	16.5	27												



## Preparation of compressed air ► Maintenance units and components

### Series AS1 Accessories

#### Pressure gauge, Series PG1-SAS

► Front port ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi ► suitable for ATEX



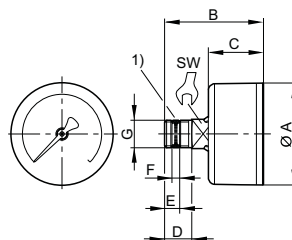
00123444

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

Materials:	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value	Weight	Part No.
		[mm]	[bar]	[bar]	[bar]		[kg]	
	G 1/8	40	0 - 1.2	0 - 1.6	0 / 1.6	0.05	0.08	<b>R412003853</b>
			0 - 2	0 - 2.5	0 / 2.5	0.1		<b>R412003854</b>
			0 - 3.2	0 - 4	0 / 4	0.1		<b>R412003855</b>
			0 - 4	0 - 6	0 / 6	0.2		<b>R412003856</b>
			0 - 8	0 - 10	0 / 10	0.2		<b>R412003857</b>
			0 - 12	0 - 16	0 / 16	0.5		<b>R412003858</b>

#### Dimensions



00119457

Compressed air connection G	Nominal diameter	Ø A	B	C	D	E	F 1)	SW				
G 1/8	40	39	44.5	26.5	10	5.6	2.1	14				

1) Gasket thread

Series AS1  
Accessories

Adapter, Series CN1  
▶ Form C, ISO 15217/M 12

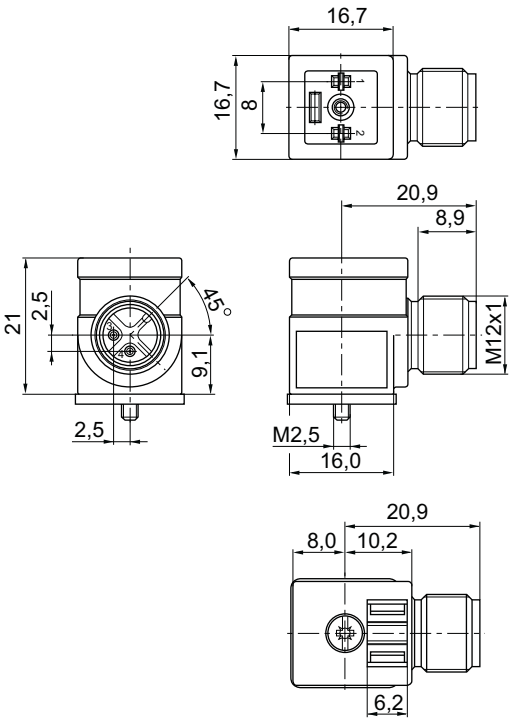


Ambient temperature min./max.	-10°C / +100°C
Protection class	IP65
Operational voltage DC, max.	24 V DC
Mounting screw tightening torque	0.6 Nm
Materials:	
Housing	Polyurethane

00137187

	Max. current	Contact assign- ment	Protective circuit	LED status display	Housing color	Part No.
	[A]					
	1	2+E	Varistor	Yellow	Transparent	<b>R412009553</b>

Dimensions



00137185

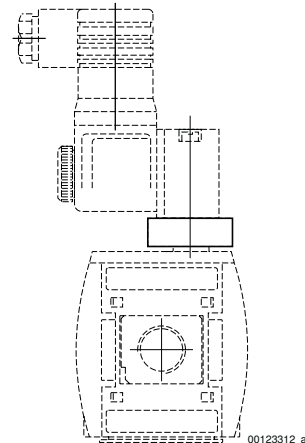
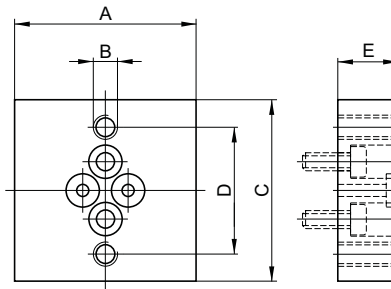
## Series AS1 Accessories

### Transition plate, Series AS1, AS2, AS3, AS5

► with CNOMO porting configuration



00124240



00123312\_a

Part No.	A	B	C	D	E	Material	Weight [kg]				
<b>R412006360</b>	30	M4	30	21	10	Aluminum	0.025				

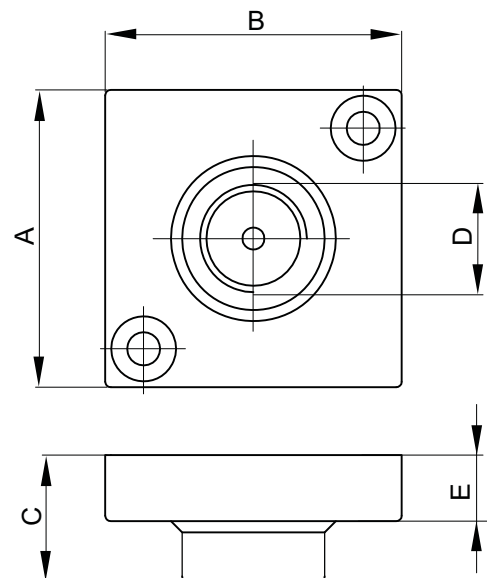
Scope of delivery incl. 4 mounting screws, 2 O-rings  
Adapter plate for assembling a series DO30 pilot valve with CNOMO porting configuration on a 3/2-way shut-off valve without pilot

### Transition plate, Series AS1

► Transition plate for assembling a pressure gauge with connection thread G 1/8



00138422



00138085

Part No.	A	B	C	D	E						
<b>R412010538</b>	27	27	11.5	G 1/8	6						

Series AS1  
Accessories

Connecting cable, Series CN2  
► Socket, M12x1, 5-pin, A-coded, angled ► without wire end ferrule, tin-plated, 4-pin ► for CANopen, DeviceNet



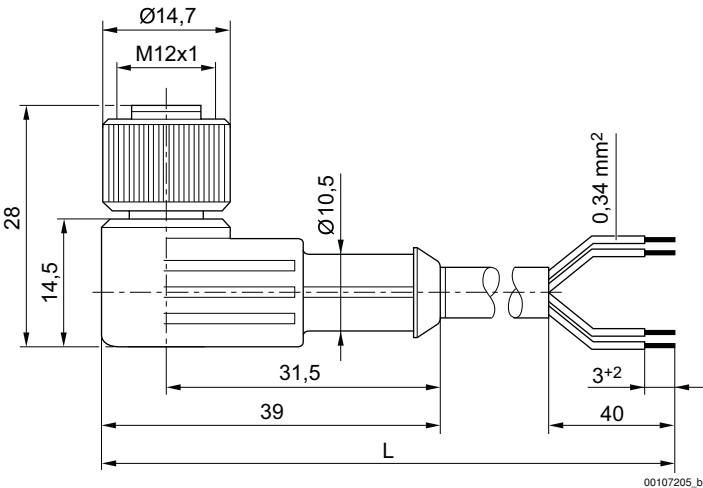
00107009\_c

Ambient temperature min./max.	-40°C / +85°C
Protection class	IP65
Materials:	
Cable sheath	Polyurethane

Technical Remarks							
■ The specified protection class is only valid in assembled and tested state.							

	Operational voltage max.		Max. current	Number of poles	Wire cross-section	Cable length L	Weight	Part No.
	[V AC]	[V DC]	[A]		[mm²]	[m]	[kg]	
	48	48	4	4	0.34	3	0.13	<b>1834484259</b>
						5	0.202	<b>1834484260</b>
						10	0.387	<b>1834484261</b>

Dimensions

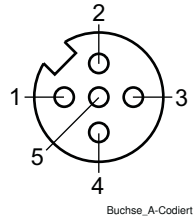


L = length

## Preparation of compressed air ► Maintenance units and components

### Series AS1 Accessories

#### Pin assignment



- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) not assigned

### Connecting cable, Series CN2

► Socket, M12x1, 5-pin, A-coded, straight ► without wire end ferrule, tin-plated, 4-pin ► for CANopen, DeviceNet



00107009\_b

Ambient temperature min./max.

-25°C / +70°C

Protection class

IP67

Materials:

Cable sheath

Polyurethane

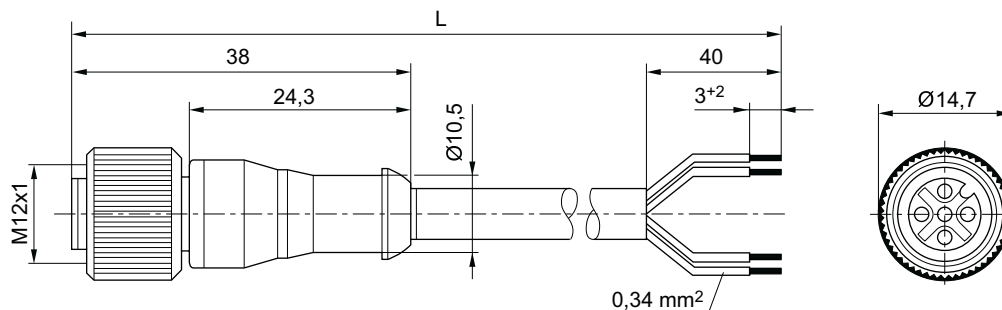
Cable color

Black

#### Technical Remarks

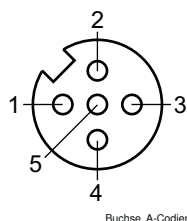
- The specified protection class is only valid in assembled and tested state.

	Operational voltage max.		Max. current	Number of poles	Wire cross-section	Cable length L	Weight	Part No.
	[V AC]	[V DC]	[A]		[mm²]	[m]	[kg]	
1 > BN	48	48	4	4	0.34	3	0.131	<b>1834484256</b>
2 > WH						10	0.398	<b>1834484258</b>
3 > BU						5	0.201	<b>1834484257</b>
4 > BK								
5 >								

**Series AS1**
**Accessories**
**Dimensions**


00127851

L = length

**Pin assignment**


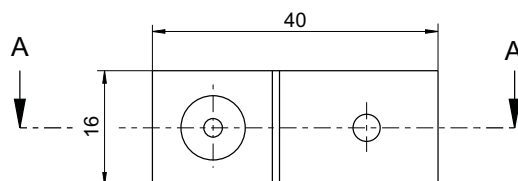
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) not assigned

**Mounting aid**

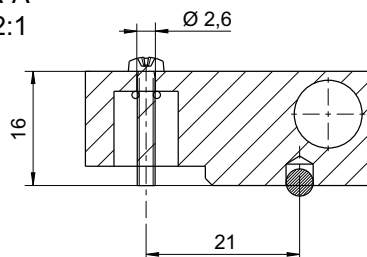
► Assembly aid for permanent actuation of manual override ("press") on pilot valve D016 with electrical push-in fitting, form C.



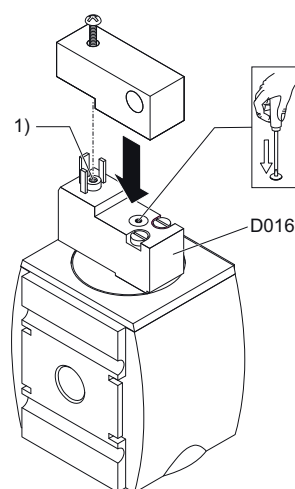
00015811



A-A  
2:1



1) ISO 15217, form C

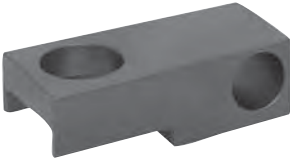


00015809\_a

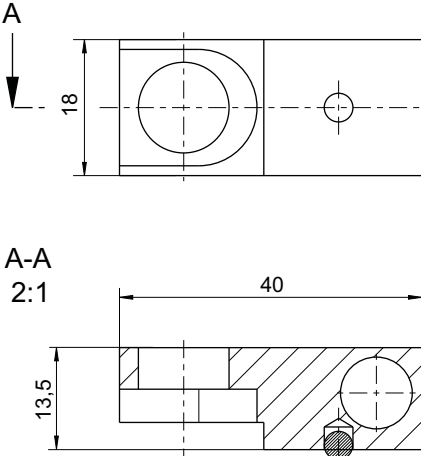
Series AS1  
Accessories

Part No.	Material											
R412019278	Aluminum											
Scope of delivery incl. 1 mounting screw, 1 O-ring												

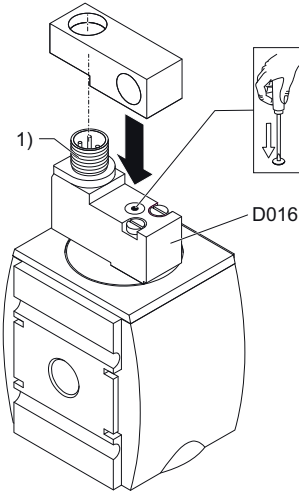
Mounting aid  
► Assembly aid for permanent actuation of manual override (“press”) on pilot valve DO16 with electrical connection M12x1.



00015812




1) M12x1



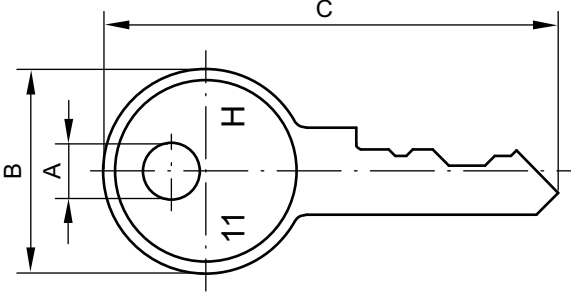
00015810

Part No.	Material	Weight [kg]										
R412015193	Aluminum	0.023										
Mounting the assembly aid to the pilot valve using electrical connector M12x1												

Key for E11 locking



22691



21350

**Series AS1**  
Accessories

Part No.	A	B	C	Delivery quantity [Piece]								
<b>R961403407</b>	4.5	20.5	45	1								



AVENTICS GmbH  
Ulmer Straße 4  
30880 Laatzen, GERMANY  
Phone +49 511 2136-0  
Fax +49 511 2136-269  
[www.aventics.com](http://www.aventics.com)  
[info@aventics.com](mailto:info@aventics.com)



Find more contact information at  
[www.aventics.com/contact](http://www.aventics.com/contact)

Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that the products are subject to a natural process of wear and aging.

29-04-2016

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. © AVENTICS S.à r.l.  
This document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS S.à r.l.. It may not be reproduced or given to third parties without its consent. PDF online