

Preparation of compressed air → Maintenance units and components  
**Series AS3**

Brochure



Preparation of compressed air → Maintenance units and components

★ **Series AS3**

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● Service products - existing standard program, worldwide service

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★ **Series AS3**

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	Standard oil-mist lubricator, Series AS3-LBS G 3/8 - G 1/2; ATEX certified	48
	Filling unit, electrically operated, Series AS3-SSU G 3/8 - G 1/2; pipe connection; Electr. connection: Plug, ISO 15217, form C; ATEX optional	50
	Filling unit, pneumatically operated, Series AS3-SSU G 3/8 - G 1/2; pipe connection; ATEX certified	55
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★ **Series AS3**

	Filling valve, pneumatically operated, Series AS3-SSV G 3/8 - G 1/2; ATEX certified	68
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<b>Accessories</b>		
	Reservoir, Series AS3-CLS/ -CLP/ -CLC for filters, pre-filters and microfilters	72
	Reservoir, Series AS3-CLA for active carbon filter	75
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	Mounting clip, Series AS3-MBR-...-W03	78
	Block assembly kit, Series AS3-MBR-...-W04	79
	Block assembly kit, Series AS3-MBR-...-W05	79




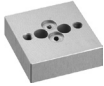

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Preparation of compressed air → Maintenance units and components

★ **Series AS3**

	Panel nut, Series AS3-MBR-...-W06	80
	Pressure gauges, Series PG1 - SAS Front port; Scale color: White / Grey; Viewing window: Polystyrene; ATEX certified	80
	Pressure gauges, Series PG1-SAS-ADJ Front port; with adjustable work area display; Scale color: White / Grey; Viewing window: Polystyrene; ATEX certified	82
	Pressure gauges, Series PG1 - DIM flange version; Scale color: Black; Viewing window: Polystyrene; ATEX certified	83
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	plugs	85

Preparation of compressed air → Maintenance units and components

★ Maintenance Unit, Series AS3-ACD  
G 3/8 - G 1/2; filter porosity: 5 µm; lockable; with pressure gauge; ATEX certified



ATEX	II 2G2D T4 X
Maintenance Unit	2-in-1, Can be assembled into blocks
Parts	Filter pressure regulator, lubricator
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Lock type	with padlock
Pressure supply	single
Installation location	vertical
Nominal flow Qn	3500 l/min
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Adjustment range min./max.	0.5 bar / 8 bar
Medium	Compressed air
Filter element	exchangeable
Filter reservoir volume	49 cm³
Type of filling	Manual oil filling Semi-automatic oil filling during operation
Oil type	HL 68 (DIN 51 524 - ISO VG 68) HL 32 (DIN 51 524 - ISO VG 32)
Lubricator reservoir volume	80 cm³
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seal	Acrylonitrile Butadiene Rubber
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Polyethylene

Technical Remarks
<ul style="list-style-type: none"> <li>■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.</li> <li>■ Oil dosing at 1000 l/min [drops/min]: 1-2</li> </ul>

	Port	Working pressure min./max. [bar]	Condensate drain	Weight [kg]	Part No.
	G 3/8	1.5 / 16	semi-automatic, open without pressure	1.018	R412007298
	G 3/8	1.5 / 16	fully automatic, open without pressure	1.067	R412007299
	G 3/8	0 / 16	fully automatic, closed without pressure	1.067	R412007300
	G 1/2	1.5 / 16	semi-automatic, open without pressure	1.018	R412007307
	G 1/2	1.5 / 16	fully automatic, open without pressure	1.067	R412007308
	G 1/2	0 / 16	fully automatic, closed without pressure	1.067	R412007309

Nominal flow Qn at 6.3 bar and Δp = 1 bar.

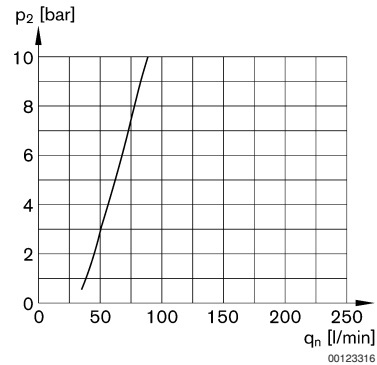
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● Service products - existing standard program, worldwide service  
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## Preparation of compressed air → Maintenance units and components

### ★ Maintenance Unit, Series AS3-ACD

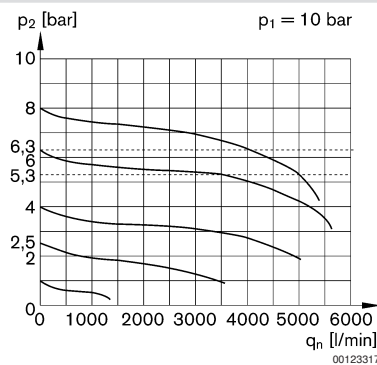
G 3/8 - G 1/2; filter porosity: 5 µm; lockable; with pressure gauge; ATEX certified

#### Lubricator activation margin



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

#### Flow rate characteristic ( $p_2$ : 0,5 - 8 bar)

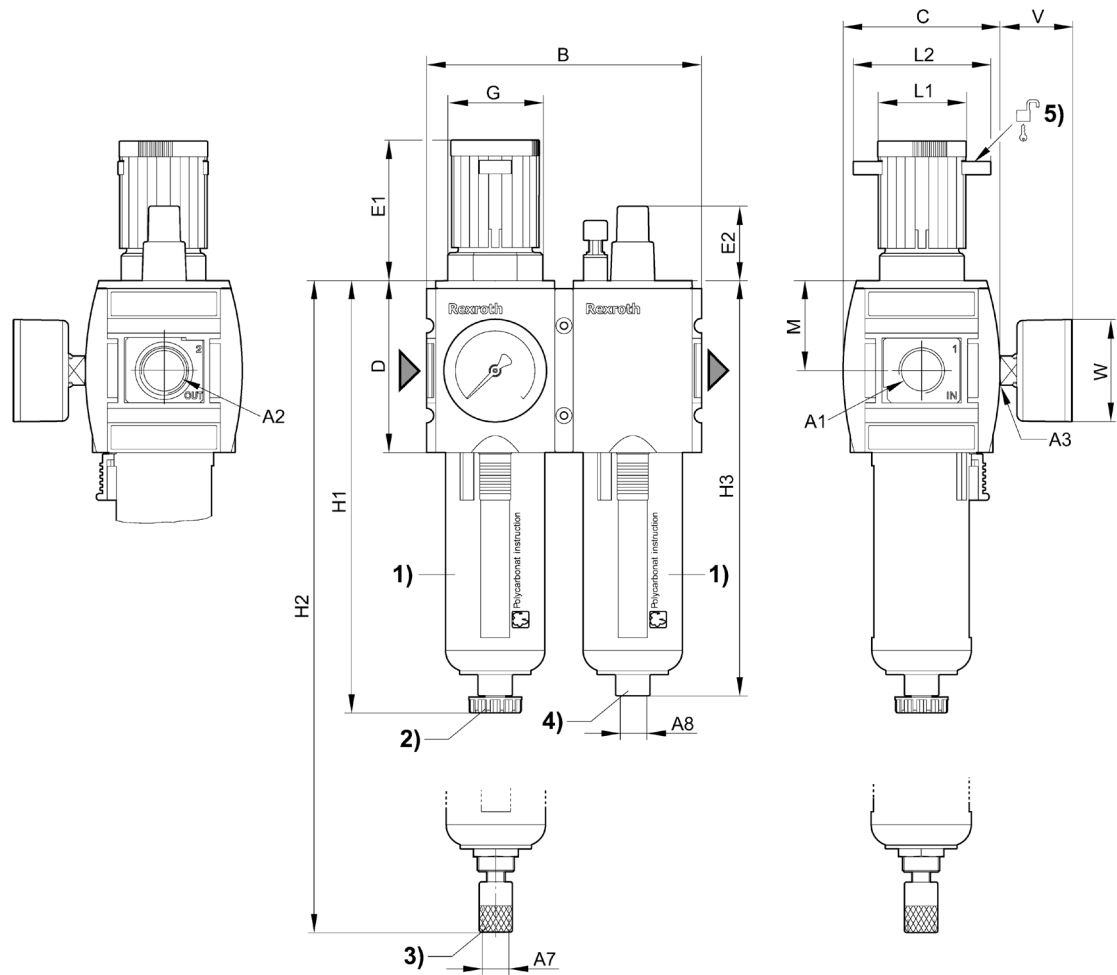


$p_1$  = working pressure;  $p_2$  = secondary pressure;  $q_n$  = nominal flow

Preparation of compressed air → Maintenance units and components

★ **Maintenance Unit, Series AS3-ACD**  
G 3/8 - G 1/2; filter porosity: 5 µm; lockable; with pressure gauge; ATEX certified

Dimensions



00120286

- 1) Plastic reservoir and protective guard with window
- 2) Semi-automatic condensate drain
- 3) Fully automatic condensate drain
- 4) Port for semi-automatic oil filling
- 5) Mounting option for padlocks; max. shackle Ø 8

A1	A2	A3	A7	A8	B	C	D	E1	E2	G	H1	H2
G 1/2	G 1/2	G 1/4	G 1/8	G 1/8	126	74	80	63.5	27.5	M42x1,5	189.5	206
G 3/8	G 3/8	G 1/4	G 1/8	G 1/8	126	74	80	63.5	27.5	M42x1,5	189.5	206

A1	H3	M	L1	L2	V	W						
G 1/2	183	42.5	41	60	33	50						
G 3/8	183	42.5	41	60	33	50						



## Preparation of compressed air → Maintenance units and components

## ★ Maintenance Unit, Series AS3-ACT

G 3/8 - G 1/2; filter porosity: 5 µm; lockable; with pressure gauge; ATEX certified



00119436

ATEX	II 2G2D T4 X
Maintenance Unit	3-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller, lubricator
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Lock type	with padlock
Pressure supply	single
Installation location	vertical
Nominal flow Q <sub>n</sub>	3500 l/min
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Adjustment range min./max.	0.5 bar / 8 bar
Medium	Compressed air
Filter element	exchangeable
Filter reservoir volume	49 cm³
Type of filling	Manual oil filling Semi-automatic oil filling during operation
Oil type	HL 68 (DIN 51 524 - ISO VG 68) HL 32 (DIN 51 524 - ISO VG 32)
Lubricator reservoir volume	80 cm³
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seal	Acrylonitrile Butadiene Rubber
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Polyethylene

## 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]: 1-2

	Port	Working pressure min./max. [bar]	Condensate drain	Weight [kg]	Part No.
	G 3/8	1.5 / 16	semi-automatic, open without pressure	1.353	R412007318
	G 3/8	1.5 / 16	fully automatic, open without pressure	1.402	R412007319
	G 3/8	0 / 16	fully automatic, closed without pressure	1.402	R412007320
	G 1/2	1.5 / 16	semi-automatic, open without pressure	1.353	R412007327
	G 1/2	1.5 / 16	fully automatic, open without pressure	1.402	R412007328
	G 1/2	0 / 16	fully automatic, closed without pressure	1.402	R412007329

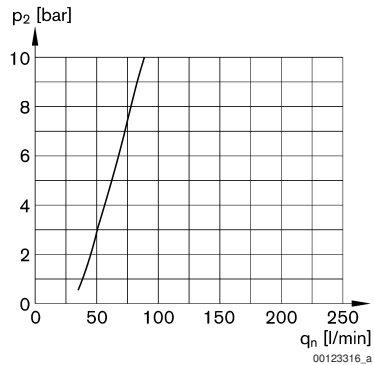
Nominal flow Q<sub>n</sub> at 6.3 bar and Δp = 1 bar.

## Preparation of compressed air → Maintenance units and components

### ★ Maintenance Unit, Series AS3-ACT

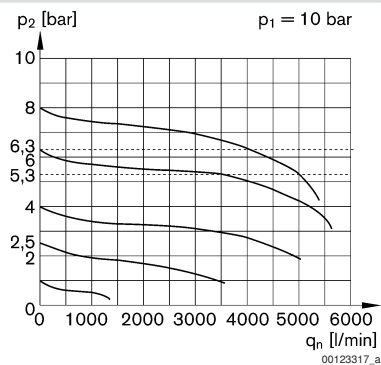
G 3/8 - G 1/2; filter porosity: 5 µm; lockable; with pressure gauge; ATEX certified

#### Lubricator activation margin



p2 = secondary pressure; qn = nominal flow

#### Flow rate characteristic (p2: 0,5 - 8 bar)



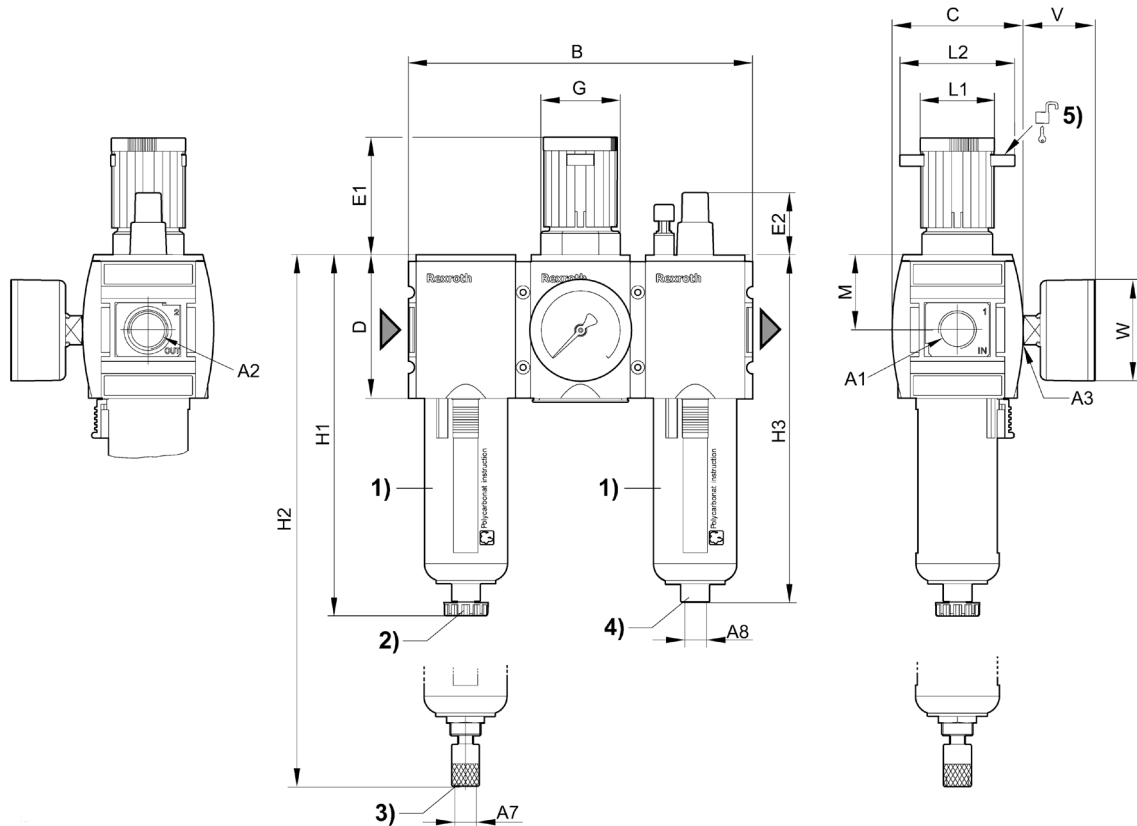
p1 = working pressure; p2 = secondary pressure; qn = nominal flow

## Preparation of compressed air → Maintenance units and components

## ★ Maintenance Unit, Series AS3-ACT

G 3/8 - G 1/2; filter porosity: 5 µm; lockable; with pressure gauge; ATEX certified

## Dimensions



00120267

- 1) Plastic reservoir and protective guard with window
- 2) Semi-automatic condensate drain
- 3) Fully automatic condensate drain
- 4) Port for semi-automatic oil filling
- 5) Mounting option for padlocks; max. shackle Ø 8

A1	A2	A3	A7	A8	B	C	D	E1	E2	G	H1	H2
G 1/2	G 1/2	G 1/4	G 1/8	G 1/8	189	74	80	63.5	27.5	M42x1,5	189.5	206
G 3/8	G 3/8	G 1/4	G 1/8	G 1/8	189	74	80	63.5	27.5	M42x1,5	189.5	206

A1	H3	M	L1	L2	V	W						
G 1/2	183	42.5	41	60	33	50						
G 3/8	183	42.5	41	60	33	50						

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

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## Preparation of compressed air → Maintenance units and components

## ★ Pressure regulator, Series AS3-RGS

G 3/8 - G 1/2; Q<sub>n</sub> = 1600 - 5200 l/min; Activation : mechanical; lockable; ATEX certified

00119369

ATEX  
Regulator type

Function  
Lock type  
Installation location  
Pressure supply  
Ambient temperature min./max.  
Medium temperature min./max.  
Medium

Materials:  
Housing  
Cover  
Seal

II 2G2D T4 X  
Diaphragm-type pressure regulator, Can be assembled into blocks  
with relieving air exhaust  
with padlock  
arbitrary  
single  
-10 °C / +50 °C  
-10 °C / +50 °C  
Compressed air

Polyamide  
Acrylonitrile butadiene styrene  
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	Q <sub>n</sub>	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
			[l/min]	[bar]	[bar]	[kg]	
		G 3/8	1600	0.1 / 16	0.1 - 1	0.6	R412007101
		G 3/8	4600	0.1 / 16	0.1 - 2		R412007103
		G 3/8	5000	0.2 / 16	0.2 - 4		R412007105
		G 3/8	4300	0.5 / 16	0.5 - 8		R412007107
		G 3/8	4300	0.5 / 16	0.5 - 10		R412007109
		G 3/8	3500	0.5 / 16	0.5 - 16		R412007111
		G 1/2	1600	0.1 / 16	0.1 - 1		R412007113
		G 1/2	4600	0.1 / 16	0.1 - 2		R412007115
		G 1/2	5000	0.2 / 16	0.2 - 4		R412007117
		G 1/2	5200	0.5 / 16	0.5 - 8		R412007119
		G 1/2	5200	0.5 / 16	0.5 - 10		R412007121
		G 1/2	4000	0.5 / 16	0.5 - 16		R412007123
	-	G 3/8	1600	0.1 / 16	0.1 - 1	0.528	R412007100
		G 3/8	4600	0.1 / 16	0.1 - 2		R412007102
		G 3/8	5000	0.2 / 16	0.2 - 4		R412007104
		G 3/8	4300	0.5 / 16	0.5 - 8		R412007106
		G 3/8	4300	0.5 / 16	0.5 - 10		R412007108
		G 3/8	3500	0.5 / 16	0.5 - 16		R412007110
		G 1/2	1600	0.1 / 16	0.1 - 1		R412007112
		G 1/2	4600	0.1 / 16	0.1 - 2		R412007114
		G 1/2	5000	0.2 / 16	0.2 - 4		R412007116
		G 1/2	5200	0.5 / 16	0.5 - 8		R412007118
		G 1/2	5200	0.5 / 16	0.5 - 10		R412007120
		G 1/2	4000	0.5 / 16	0.5 - 16		R412007122

Nominal flow Q<sub>n</sub> at 6.3 bar and Δp = 1 bar.

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● Service products - existing standard program, worldwide service

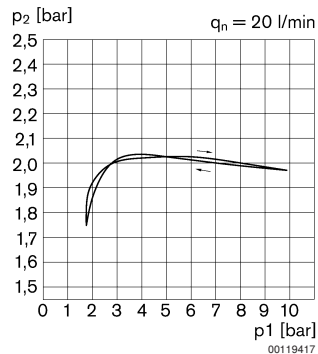
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## Preparation of compressed air → Maintenance units and components

### ★ Pressure regulator, Series AS3-RGS

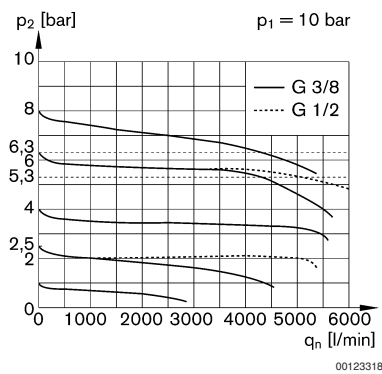
G 3/8 - G 1/2; Q<sub>n</sub> = 1600 - 5200 l/min; Activation : mechanical; lockable; ATEX certified

#### Pressure characteristics curve



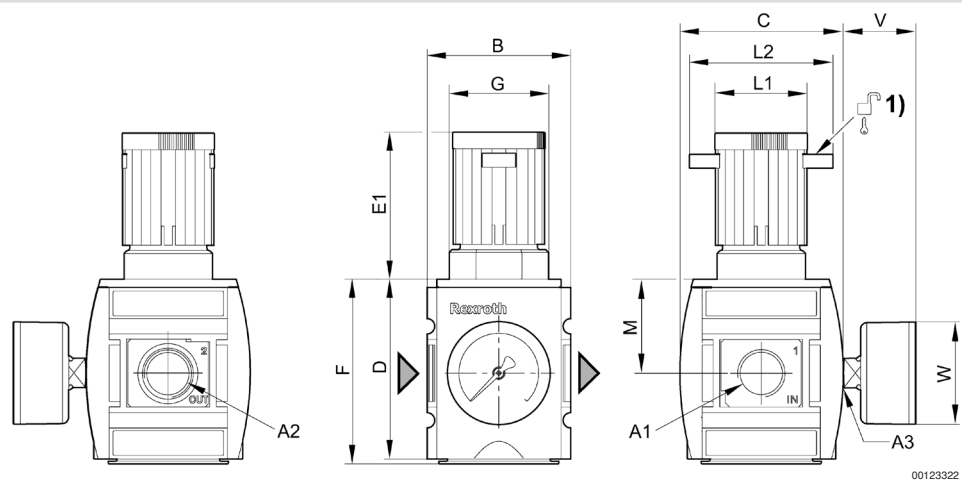
p<sub>1</sub> = working pressure; p<sub>2</sub> = secondary pressure; q<sub>n</sub> = nominal flow

#### Flow rate characteristic (p<sub>2</sub>: 0,5 - 8 bar)



p<sub>1</sub> = working pressure; p<sub>2</sub> = secondary pressure; q<sub>n</sub> = nominal flow

#### Dimensions



1) Mounting option for padlocks; max. shackle Ø 8

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**Preparation of compressed air → Maintenance units and components****★ Pressure regulator, Series AS3-RGS****G 3/8 - G 1/2; Qn = 1600 - 5200 l/min; Activation : mechanical; lockable; ATEX certified**

A1	A2	A3	B	C	D	E1	F	G	L1	L2	M	V
G 1/2	G 1/2	G 1/4	63	74	80	63.5	82	M42x1,5	41	60	42.5	33
G 3/8	G 3/8	G 1/4	63	74	80	63.5	82	M42x1,5	41	60	42.5	33
A1	W											
G 1/2	50											
G 3/8	50											

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## Preparation of compressed air → Maintenance units and components

## ★ Pressure regulator, Series AS3-RGS-...-DS

G 3/8 - G 1/2; Qn = 1600 - 5200 l/min; Activation : mechanical; with continuous pressure supply; lockable; ATEX certified



00119367

ATEX  
Regulator type

Version  
Function  
Lock type  
Installation location  
Pressure supply  
Ambient temperature min./max.  
Medium temperature min./max.  
Medium

Materials:  
Housing  
Cover  
Seal

II 2G2D T4 X

Diaphragm-type pressure regulator, Can be assembled into blocks

Regulator without pressure gauge  
with relieving air exhaust  
with padlock

arbitrary  
double

-10 °C / +50 °C

-10 °C / +50 °C

Compressed air

Polyamide

Acrylonitrile butadiene styrene

Acrylonitrile Butadiene Rubber

## Technical Remarks

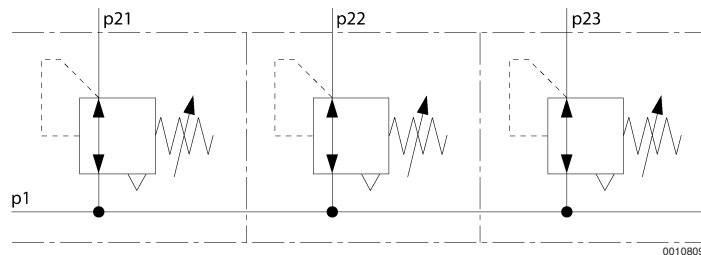
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

	Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
		[l/min]	[bar]	[bar]	[kg]	
	G 3/8	1600	0.1 / 16	0.1 - 1	0.528	R412007124
	G 3/8	4600	0.1 / 16	0.1 - 2		R412007125
	G 3/8	5000	0.2 / 16	0.2 - 4		R412007126
	G 3/8	4300	0.5 / 16	0.5 - 8		R412007127
	G 3/8	4300	0.5 / 16	0.5 - 10		R412007128
	G 3/8	3500	0.5 / 16	0.5 - 16		R412007129
	G 1/2	1600	0.1 / 16	0.1 - 1		R412007130
	G 1/2	4600	0.1 / 16	0.1 - 2		R412007131
	G 1/2	5000	0.2 / 16	0.2 - 4		R412007132
	G 1/2	5200	0.5 / 16	0.5 - 8		R412007133
	G 1/2	5200	0.5 / 16	0.5 - 10		R412007134
	G 1/2	4000	0.5 / 16	0.5 - 16		R412007135

Max. pressure gauge Ø in blocked state [mm]: 50

Nominal flow Qn at 6.3 bar and Δp = 1 bar.

## Application example



00108090

p1 = working pressure

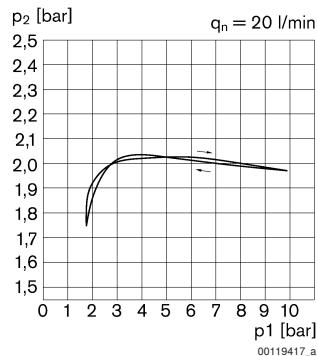
p21; p22; p23 = secondary pressure

## Preparation of compressed air → Maintenance units and components

### ★ Pressure regulator, Series AS3-RGS-...-DS

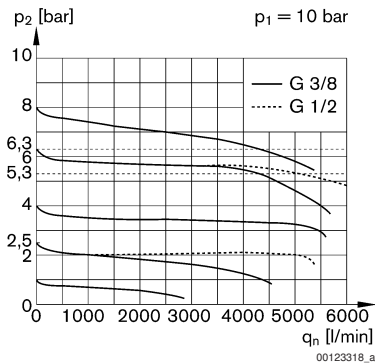
G 3/8 - G 1/2;  $Q_n = 1600 - 5200$  l/min; Activation : mechanical; with continuous pressure supply; lockable; ATEX certified

#### Pressure characteristics curve



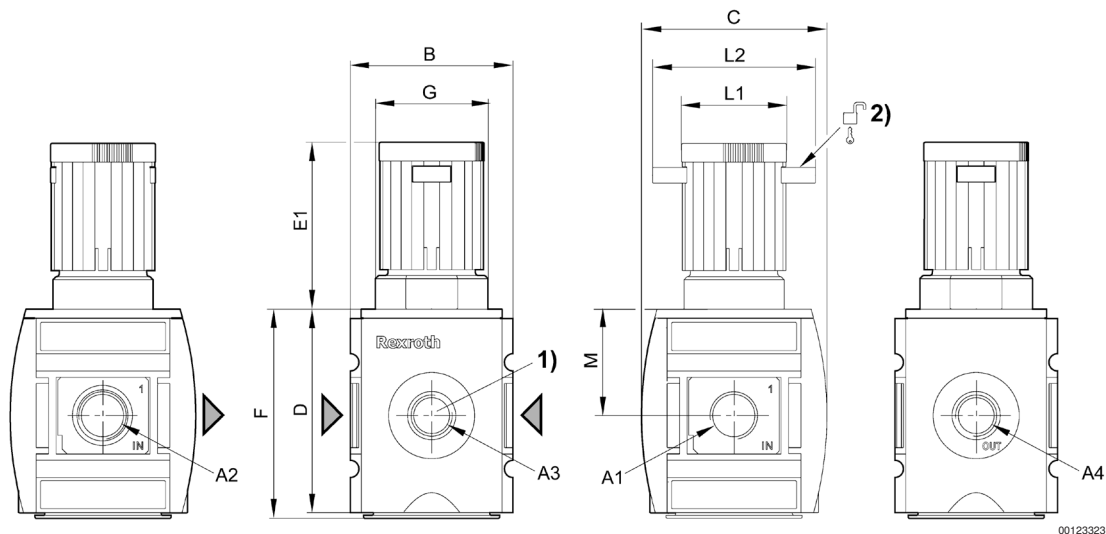
$p_1$  = working pressure;  $p_2$  = secondary pressure;  $q_n$  = nominal flow

#### Flow rate characteristic ( $p_2$ : 0,5 - 8 bar)



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

#### Dimensions



1) Pressure gauge connection

2) Mounting option for padlocks; max. shackle  $\varnothing 8$

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## Preparation of compressed air → Maintenance units and components

### ★ Pressure regulator, Series AS3-RGS-...-DS

G 3/8 - G 1/2; Q<sub>n</sub> = 1600 - 5200 l/min; Activation : mechanical; with continuous pressure supply; lockable; ATEX certified

A1	A2	A3	A4	B	C	D	E1	F	G	L1	L2	M
G 1/2	G 1/2	G 1/4	G 3/8	63	74	80	63.5	82	M42x1,5	41	60	42.5
G 3/8	G 3/8	G 1/4	G 3/8	63	74	80	63.5	82	M42x1,5	41	60	42.5

## Preparation of compressed air → Maintenance units and components

## ★ Precision pressure regulator, Series AS3-RGP

G 3/8 - G 1/2; Qn = 1600 - 5200 l/min; Activation : mechanical; lockable; ATEX certified



00119369

ATEX  
Regulator type

Function  
Lock type  
Installation location  
Pressure supply  
Ambient temperature min./max.  
Medium temperature min./max.  
Medium  
Internal air consumption

Materials:  
Housing  
Cover  
Seal

II 2G2D T4 X  
Diaphragm-type pressure regulator, Can be assembled into blocks  
with relieving air exhaust  
with padlock  
arbitrary  
single  
-10 °C / +50 °C  
-10 °C / +50 °C  
Compressed air  
2.6 l/min

Polyamide  
Acrylonitrile butadiene styrene  
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.
- Recommended pre-filter: 5 µm

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
			[l/min]	[bar]	[bar]	[kg]	
		G 3/8	1600	0.1 / 16	0.1 - 1	0.6	R412007137
		G 3/8	4600	0.1 / 16	0.1 - 2		R412007139
		G 3/8	5000	0.2 / 16	0.2 - 4		R412007141
		G 3/8	4300	0.5 / 16	0.5 - 8		R412007143
		G 3/8	4300	0.5 / 16	0.5 - 10		R412007145
		G 1/2	1600	0.1 / 16	0.1 - 1		R412007149
		G 1/2	4600	0.1 / 16	0.1 - 2		R412007151
		G 1/2	5000	0.2 / 16	0.2 - 4		R412007153
		G 1/2	5200	0.5 / 16	0.5 - 8		R412007155
		G 1/2	5200	0.5 / 16	0.5 - 10		R412007157
		G 3/8	1600	0.1 / 16	0.1 - 1	0.528	R412007136
		G 3/8	4600	0.1 / 16	0.1 - 2		R412007138
		G 3/8	5000	0.2 / 16	0.2 - 4		R412007140
		G 3/8	4300	0.5 / 16	0.5 - 8		R412007142
		G 3/8	4300	0.5 / 16	0.5 - 10		R412007144
		G 1/2	1600	0.1 / 16	0.1 - 1		R412007148
		G 1/2	4600	0.1 / 16	0.1 - 2		R412007150
		G 1/2	5000	0.2 / 16	0.2 - 4		R412007152
		G 1/2	5200	0.5 / 16	0.5 - 8		R412007154
		G 1/2	5200	0.5 / 16	0.5 - 10		R412007156

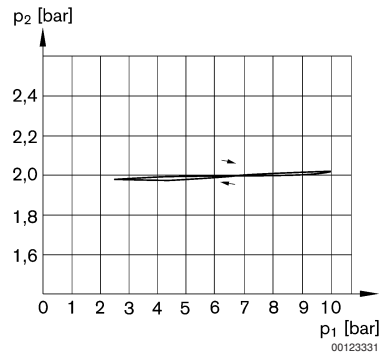
Nominal flow Qn at 6.3 bar and Δp = 1 bar.

## Preparation of compressed air → Maintenance units and components

### ★ Precision pressure regulator, Series AS3-RGP

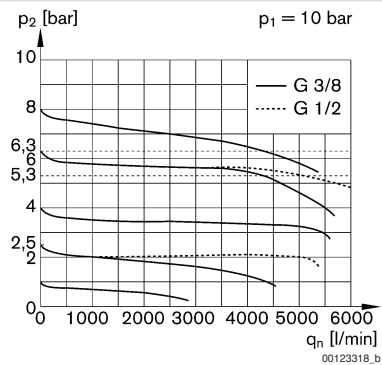
G 3/8 - G 1/2; Q<sub>n</sub> = 1600 - 5200 l/min; Activation : mechanical; lockable; ATEX certified

#### Pressure characteristics curve



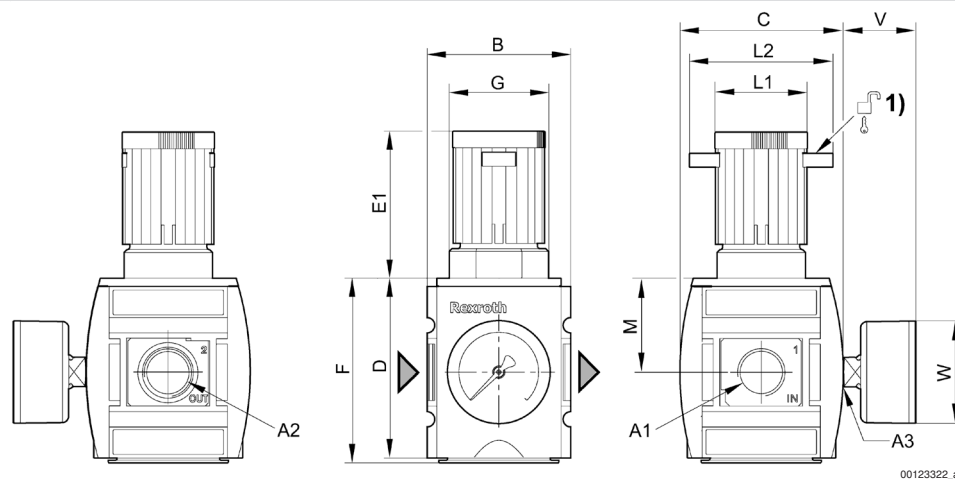
p<sub>1</sub> = working pressure  
p<sub>2</sub> = secondary pressure

#### Flow rate characteristic (p<sub>2</sub>: 0,5 - 8 bar)



p<sub>1</sub> = working pressure; p<sub>2</sub> = secondary pressure; q<sub>n</sub> = nominal flow

#### Dimensions



1) Mounting option for padlocks; max. shackle Ø 8

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● Service products - existing standard program, worldwide service

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**Preparation of compressed air → Maintenance units and components**
**★ Precision pressure regulator, Series AS3-RGP**
**G 3/8 - G 1/2; Qn = 1600 - 5200 l/min; Activation : mechanical; lockable; ATEX certified**

A1	A2	A3	B	C	D	E1	F	G	L1	L2	M	V
G 1/2	G 1/2	G 1/4	63	74	80	63.5	82	M42x1,5	41	60	42.5	33
G 3/8	G 3/8	G 1/4	63	74	80	63.5	82	M42x1,5	41	60	42.5	33
A1	W											
G 1/2	50											
G 3/8	50											

## Preparation of compressed air → Maintenance units and components

## ★ Precision pressure regulator, Series AS3-RGP-...-DS

G 3/8 - G 1/2; Qn = 1600 - 5200 l/min; Activation : mechanical; with continuous pressure supply; lockable; ATEX certified



00119367

ATEX  
Regulator type

Version  
Function  
Lock type  
Installation location  
Pressure supply  
Ambient temperature min./max.  
Medium temperature min./max.  
Medium  
Internal air consumption

II 2G2D T4 X

Diaphragm-type pressure regulator, Can be assembled into blocks

Regulator without pressure gauge  
with relieving air exhaust  
with padlock

arbitrary  
double

-10 °C / +50 °C

-10 °C / +50 °C

Compressed air

2.6 l/min

Materials:

Housing

Cover

Seal

Polyamide

Acrylonitrile butadiene styrene

Acrylonitrile Butadiene Rubber

## Technical Remarks

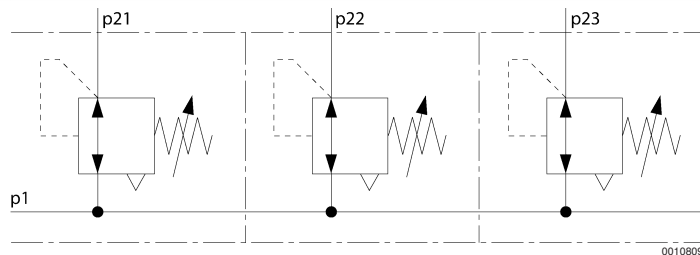
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filter: 5 µm

	Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
		[l/min]	[bar]	[bar]	[kg]	
	G 3/8	1600	0.1 / 16	0.1 - 1	0.528	R412007160
	G 3/8	4600	0.1 / 16	0.1 - 2		R412007161
	G 3/8	5000	0.2 / 16	0.2 - 4		R412007162
	G 3/8	4300	0.5 / 16	0.5 - 8		R412007163
	G 3/8	4300	0.5 / 16	0.5 - 10		R412007164
	G 1/2	1600	0.1 / 16	0.1 - 1		R412007166
	G 1/2	4600	0.1 / 16	0.1 - 2		R412007167
	G 1/2	5000	0.2 / 16	0.2 - 4		R412007168
	G 1/2	5200	0.5 / 16	0.5 - 8		R412007169
	G 1/2	5200	0.5 / 16	0.5 - 10		R412007170

Max. pressure gauge Ø in blocked state [mm]: 50

Nominal flow Qn at 6.3 bar and Δp = 1 bar.

## Application example



00108090

p1 = working pressure

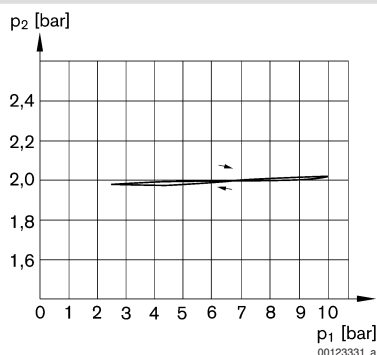
p21; p22; p23 = secondary pressure

## Preparation of compressed air → Maintenance units and components

### ★ Precision pressure regulator, Series AS3-RGP-...-DS

G 3/8 - G 1/2;  $Q_n = 1600 - 5200 \text{ l/min}$ ; Activation : mechanical; with continuous pressure supply; lockable; ATEX certified

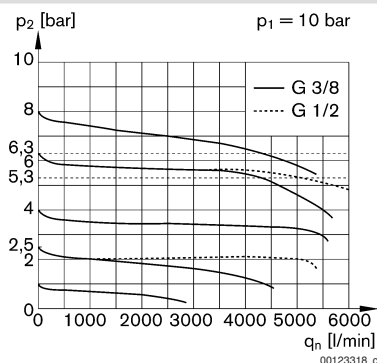
#### Pressure characteristics curve



$p_1$  = working pressure

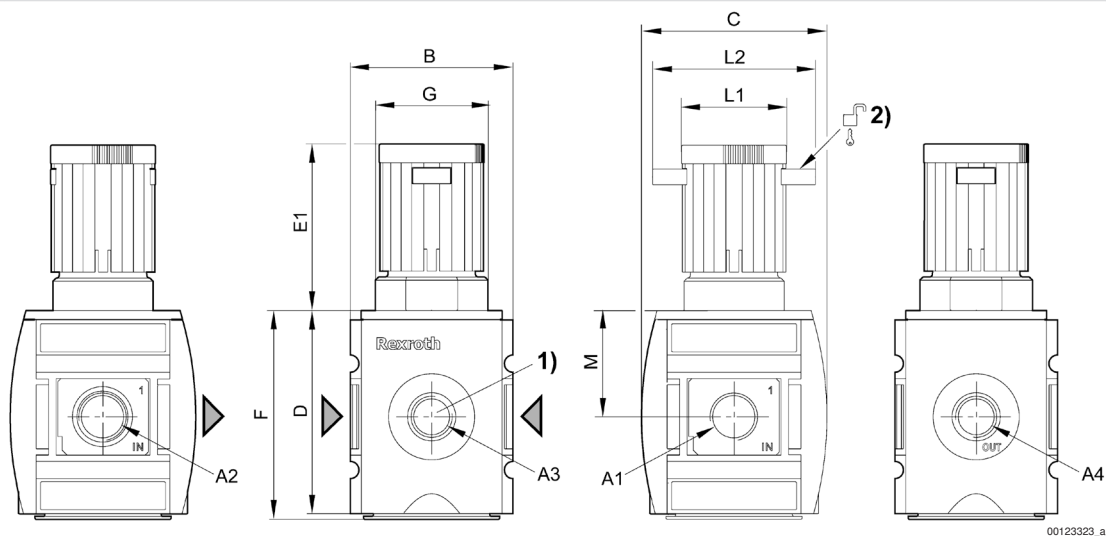
$p_2$  = secondary pressure

#### Flow rate characteristic ( $p_2$ : 0,5 - 8 bar)



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

#### Dimensions



1) Pressure gauge connection

2) Mounting option for padlocks; max. shackle  $\varnothing 8$

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

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


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**★ Precision pressure regulator, Series AS3-RGP-...-DS**

G 3/8 - G 1/2; Qn = 1600 - 5200 l/min; Activation : mechanical; with continuous pressure supply; lockable; ATEX certified

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A1	A2	A3	A4	B	C	D	E1	F	G	L1	L2	M
G 1/2	G 1/2	G 1/4	G 3/8	63	74	80	63.5	82	M42x1,5	41	60	42.5
G 3/8	G 3/8	G 1/4	G 3/8	63	74	80	63.5	82	M42x1,5	41	60	42.5

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## Preparation of compressed air → Maintenance units and components

## ★ Filter pressure regulator, Series AS3-FRE

G 3/8 - G 1/2; filter porosity: 5 µm; lockable; ATEX certified



00119372

ATEX	II 2G2D T4 X
Maintenance Unit	2-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Lock type	with padlock
Pressure supply	single
Installation location	vertical
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Adjustment range min./max.	0.5 bar / 8 bar
Medium	Compressed air
Filter element	exchangeable
Filter reservoir volume	49 cm³
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seal	Acrylonitrile Butadiene Rubber
Filter insert	Polyethylene

## 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.	Condensate drain	Weight	Part No.
			[l/min]	[bar]		[kg]	
		G 3/8	4300	1.5 / 16	semi-automatic, open without pressure	0.658	R412007200
		G 3/8	4300	1.5 / 16	fully automatic, open without pressure	0.707	R412007201
		G 3/8	4300	0 / 16	fully automatic, closed without pressure	0.707	R412007202
		G 3/8	4300	1.5 / 16	semi-automatic, open without pressure	0.89	R412007206
		G 3/8	4300	1.5 / 16	fully automatic, open without pressure	0.943	R412007207
		G 3/8	4300	0 / 16	fully automatic, closed without pressure	0.943	R412007208
		G 1/2	5100	1.5 / 16	semi-automatic, open without pressure	0.658	R412007209
		G 1/2	5100	1.5 / 16	fully automatic, open without pressure	0.707	R412007210
		G 1/2	5100	0 / 16	fully automatic, closed without pressure	0.707	R412007211
		G 1/2	5100	1.5 / 16	semi-automatic, open without pressure	0.87	R412007215
		G 1/2	5100	1.5 / 16	fully automatic, open without pressure	0.922	R412007216
		G 1/2	5100	0 / 16	fully automatic, closed without pressure	0.922	R412007217

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

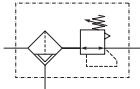
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## Preparation of compressed air → Maintenance units and components

## ★ Filter pressure regulator, Series AS3-FRE

G 3/8 - G 1/2; filter porosity: 5 µm; lockable; ATEX certified

		Port	Qn	Working pressure min./max.	Condensate drain	Weight	Part No.
			[l/min]	[bar]		[kg]	
		G 3/8	4300	1.5 / 16	semi-automatic, open without pressure	0.586	R412007175
		G 3/8	4300	1.5 / 16	fully automatic, open without pressure	0.635	R412007176
		G 3/8	4300	0 / 16	fully automatic, closed without pressure	0.635	R412007177
		G 3/8	4300	1.5 / 16	fully automatic, closed without pressure	0.818	R412007181
		G 3/8	4300	1.5 / 16	fully automatic, open without pressure	0.87	R412007182
		G 3/8	4300	0 / 16	fully automatic, closed without pressure	0.87	R412007183
		G 1/2	5100	1.5 / 16	semi-automatic, open without pressure	0.586	R412007184
		G 1/2	5100	1.5 / 16	fully automatic, open without pressure	0.635	R412007185
		G 1/2	5100	0 / 16	fully automatic, closed without pressure	0.635	R412007186
		G 1/2	5100	0 / 16	fully automatic, closed without pressure	0.85	R412007192
		G 1/2	5100	1.5 / 16	fully automatic, open without pressure	0.85	R412007191
		G 1/2	5100	1.5 / 16	semi-automatic, open without pressure	0.797	R412007190
Part No.		Note					
R412007200		1); 3)					
R412007201		1); 3)					
R412007202		1); 3)					
R412007206		2)					
R412007207		2)					
R412007208		2)					
R412007209		1); 3)					
R412007210		1); 3)					
R412007211		1); 3)					
R412007215		2)					
R412007216		2)					
R412007217		2)					
R412007175		1); 3)					
R412007176		1); 3)					
R412007177		1); 3)					
R412007181		2)					
R412007182		2)					
R412007183		2)					
R412007184		1); 3)					
R412007185		1); 3)					
R412007186		1); 3)					
R412007192		2)					
R412007191		2)					

1) Reservoir: Polycarbonate

2) Reservoir: Die cast zinc

3) Protective guard: Polyamide

Nominal flow Qn at 6.3 bar and Δp = 1 bar.

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

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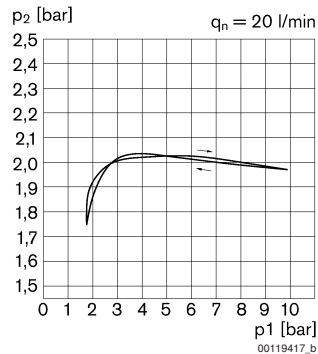
Preparation of compressed air → Maintenance units and components

★ **Filter pressure regulator, Series AS3-FRE**  
G 3/8 - G 1/2; filter porosity: 5 µm; lockable; ATEX certified

Part No.	Note
R412007190	2)

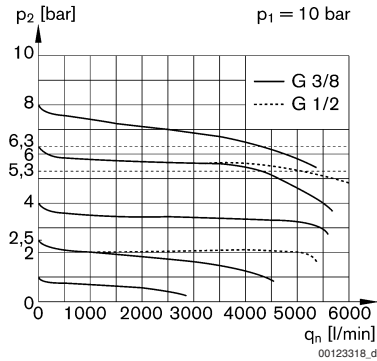
- 1) Reservoir: Polycarbonate
- 2) Reservoir: Die cast zinc
- 3) Protective guard: Polyamide
- Nominal flow Qn at 6.3 bar and Δp = 1 bar.

Pressure characteristics curve



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

Flow rate characteristic ( $p_2$ : 0,5 - 8 bar)



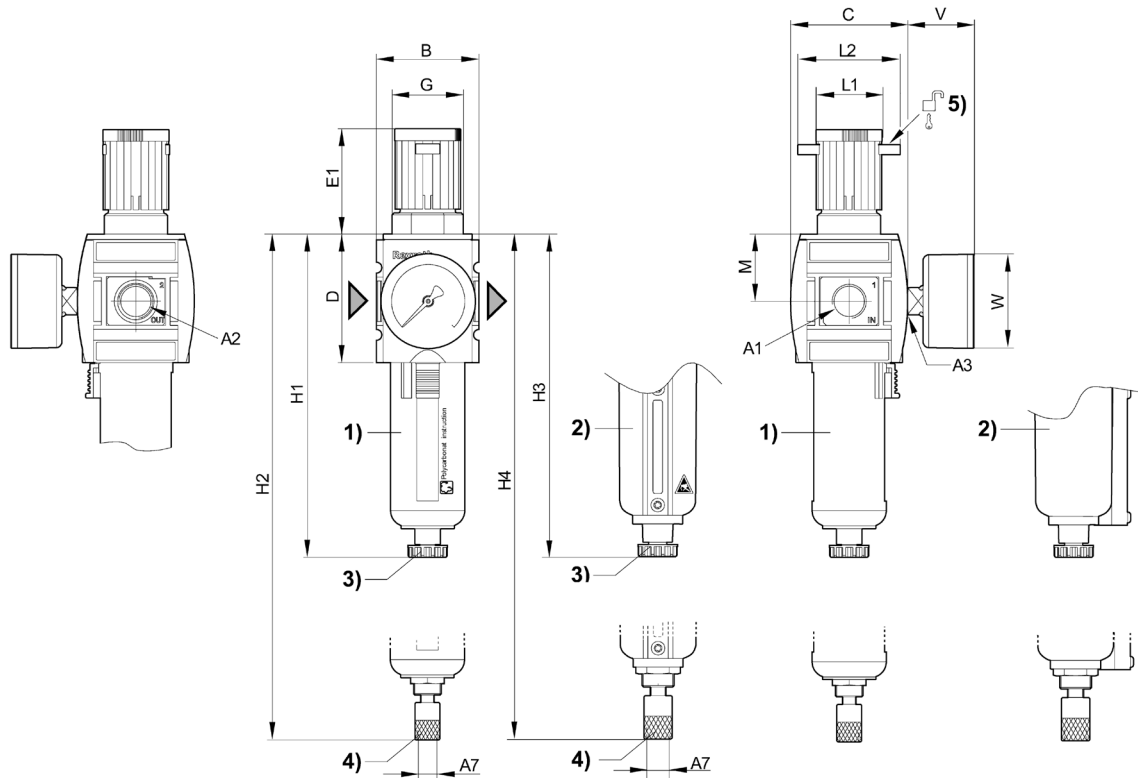
$p_1$  = working pressure;  $p_2$  = secondary pressure;  $q_n$  = nominal flow

## Preparation of compressed air → Maintenance units and components

## ★ Filter pressure regulator, Series AS3-FRE

G 3/8 - G 1/2; filter porosity: 5 µm; lockable; ATEX certified

## Dimensions



00123324

- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain
- 5) Mounting option for padlocks; max. shackle Ø 8

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	H3	H4
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	206	193.5	210.5
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	206	193.5	210.5

A1	L1	L2	M	V	W							
G 1/2	41	60	42.5	33	50							
G 3/8	41	60	42.5	33	50							

## Preparation of compressed air → Maintenance units and components

## ★ Filter, Series AS3-FLS

G 3/8 - G 1/2; filter porosity: 40 µm; ATEX certified



00119385

ATEX	II 2G2D T4 X
Version	Standard filter, Can be assembled into blocks
Installation location	vertical
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Filter element	exchangeable
filter porosity	40 µm
Filter reservoir volume	49 cm³
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Sintered bronze

## Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- max. particle count as per ISO 8573-4 at the outlet: 10 mg/m³

	Port	Qn	Working pressure min./max.	Condensate drain	Weight	Part No.
		[l/min]			[kg]	
	G 3/8	3500	1.5 / 16	semi-automatic, open without pressure	0.361	R412007003
	G 3/8		1.5 / 16	fully automatic, open without pressure	0.41	R412007004
	G 3/8		0 / 16	fully automatic, closed without pressure	0.41	R412007005
	G 1/2		1.5 / 16	semi-automatic, open without pressure	0.361	R412007012
	G 1/2		1.5 / 16	fully automatic, open without pressure	0.41	R412007013
	G 1/2		0 / 16	fully automatic, closed without pressure	0.41	R412007014

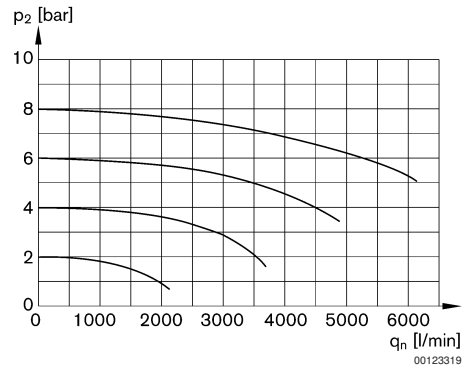
Nominal flow Qn at 6.3 bar and  $\Delta p = 1$  bar.

## Preparation of compressed air → Maintenance units and components

## ★ Filter, Series AS3-FLS

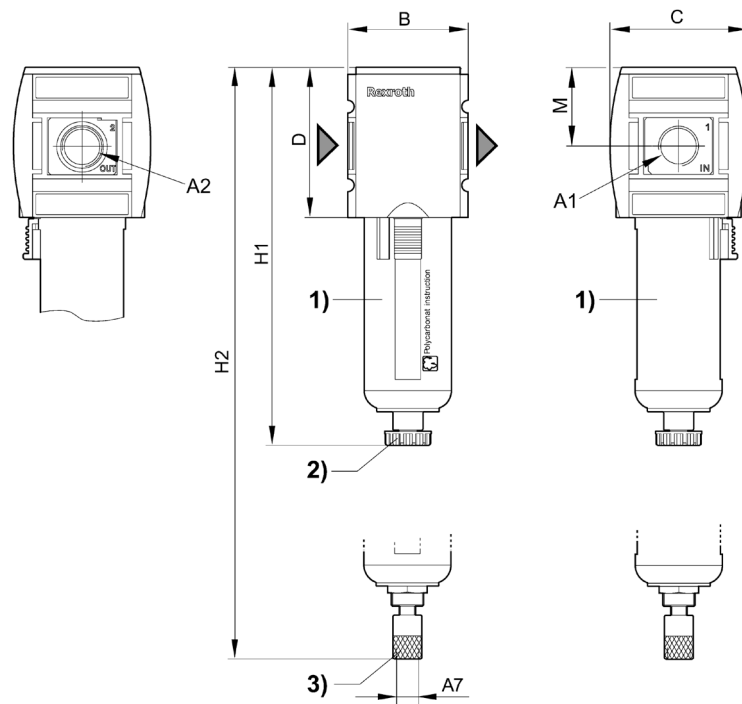
G 3/8 - G 1/2; filter porosity: 40 µm; ATEX certified

## Flow rate characteristic



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

## Dimensions



- 1) Plastic reservoir and protective guard with window  
 2) Semi-automatic condensate drain  
 3) Fully automatic condensate drain

Part No.	A1	A2	A7	B	C	D	H1	H2	M			
R412007003	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	42.5			
R412007004	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	42.5			
R412007005	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	42.5			
R412007012	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	42.5			
R412007013	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	42.5			
R412007014	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	42.5			

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## Preparation of compressed air → Maintenance units and components

## ★ Filter, Series AS3-FLS

G 3/8 - G 1/2; filter porosity: 5 µm; ATEX certified



00119385

ATEX Version	II 2G2D T4 X
Installation location	Standard filter, Can be assembled into blocks
Ambient temperature min./max.	vertical
Medium temperature min./max.	-10 °C / +50 °C
Medium	-10 °C / +50 °C
Filter element	Compressed air
filter porosity	exchangeable
Filter reservoir volume	5 µm
	49 cm³
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Polyethylene

## Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- max. particle count as per ISO 8573-4 at the outlet: 5 mg/m³

	Port	Qn	Working pressure min./max.	Condensate drain	Reservoir	Protective guard	Note	Weight	Part No.
		[l/min]						[kg]	
	G 3/8	3500	1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	-	0.361	R412007000
	G 3/8		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	-	0.41	R412007001
	G 3/8		0 / 16	fully automatic, closed without pressure	Polycarbonate	Polyamide	-	0.41	R412007002
	G 3/8		1.5 / 16	semi-automatic, open without pressure	Die cast zinc	-	1)	0.723	R412007006
	G 3/8		1.5 / 16	fully automatic, open without pressure	Die cast zinc	-	1)	0.79	R412007007
	G 3/8		0 / 16	fully automatic, closed without pressure	Die cast zinc	-	1)	0.79	R412007008
	G 1/2		1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	-	0.361	R412007009
	G 1/2		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	-	0.41	R412007010
	G 1/2		0 / 16	fully automatic, closed without pressure	Polycarbonate	Polyamide	-	0.41	R412007011
	G 1/2		1.5 / 16	semi-automatic, open without pressure	Die cast zinc	-	1)	0.716	R412007015
	G 1/2		1.5 / 16	fully automatic, open without pressure	Die cast zinc	-	1)	0.769	R412007016
	G 1/2		0 / 16	fully automatic, closed without pressure	Die cast zinc	-	1)	0.769	R412007017

1) With window

Nominal flow Qn at 6.3 bar and Δp = 1 bar.

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● Service products - existing standard program, worldwide service

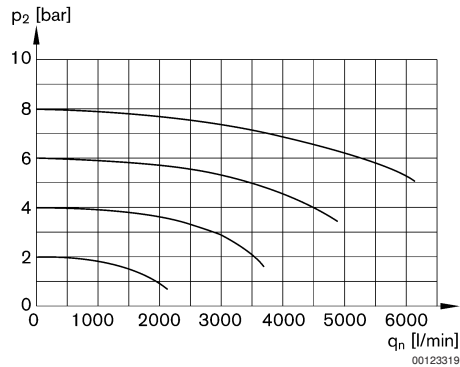
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## Preparation of compressed air → Maintenance units and components

## ★ Filter, Series AS3-FLS

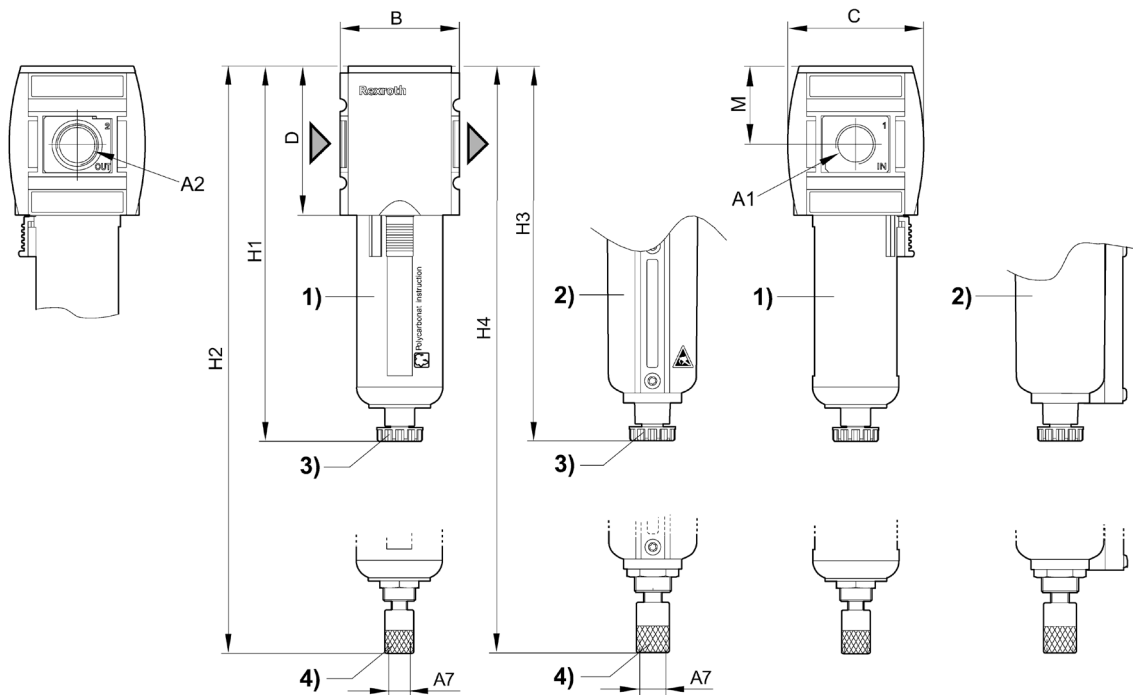
G 3/8 - G 1/2; filter porosity: 5 µm; ATEX certified

## Flow rate characteristic



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

## Dimensions



00123325

- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain

Part No.	A1	A2	A7	B	C	D	H1	H2	H3	H4	M
R412007000	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007001	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007002	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007006	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007007	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007008	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5

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 ● Service products - existing standard program, worldwide service  
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**Preparation of compressed air → Maintenance units and components****★ Filter, Series AS3-FLS****G 3/8 - G 1/2; filter porosity: 5 µm; ATEX certified**

Part No.	A1	A2	A7	B	C	D	H1	H2	H3	H4	M
R412007009	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007010	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007011	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007015	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007016	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5
R412007017	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5



## Preparation of compressed air → Maintenance units and components

## ★ Pre-filter, Series AS3-FLP

G 3/8 - G 1/2; filter porosity: 0.3 µm; ATEX certified



00127784

ATEX	II 2G2D T4 X
Version	Pre-filter, Can be assembled into blocks
Installation location	vertical
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Filter element	exchangeable
filter porosity	0.3 µm
Filter reservoir volume	49 cm³
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Impregnated paper

## 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: 5 µm
- max. residual oil content at the outlet: 1 mg/m³
- max. particle count as per ISO 8573-4 at the outlet: 100000 1/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 2

	Port	Qn	Working pressure min./max.	Condensate drain	Reservoir	Protective guard	Note	Weight	Part No.
		[l/min]						[kg]	
	G 3/8	900	1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	-	0.361	R412007018
	G 3/8		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	-	0.41	R412007019
	G 3/8		0 / 16	fully automatic, closed without pressure	Polycarbonate	Polyamide	-	0.41	R412007020
	G 3/8		1.5 / 16	semi-automatic, open without pressure	Die cast zinc	-	1)	0.778	R412007024
	G 3/8		1.5 / 16	fully automatic, open without pressure	Die cast zinc	-	1)	0.831	R412007025
	G 3/8		0 / 16	fully automatic, closed without pressure	Die cast zinc	-	1)	0.831	R412007026
	G 1/2		1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	-	0.361	R412007027
	G 1/2		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	-	0.41	R412007028
	G 1/2		0 / 16	fully automatic, closed without pressure	Polycarbonate	Polyamide	-	0.41	R412007029
	G 1/2		1.5 / 16	semi-automatic, open without pressure	Die cast zinc	-	1)	0.757	R412007033
	G 1/2		1.5 / 16	fully automatic, closed without pressure	Die cast zinc	-	1)	0.81	R412007034
	G 1/2		0 / 16	fully automatic, closed without pressure	Die cast zinc	-	1)	0.81	R412007035

1) With window

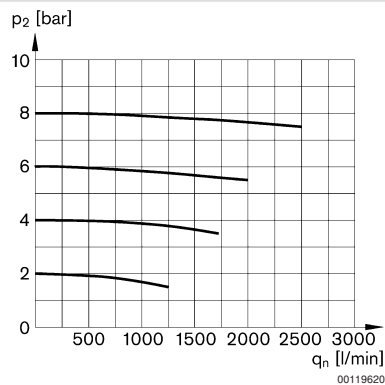
Nominal flow Qn at 6.3 bar and Δp = 0.1 bar.

★ Core products - preferably for new constructions, worldwide service  
 ● Service products - existing standard program, worldwide service  
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Preparation of compressed air → Maintenance units and components

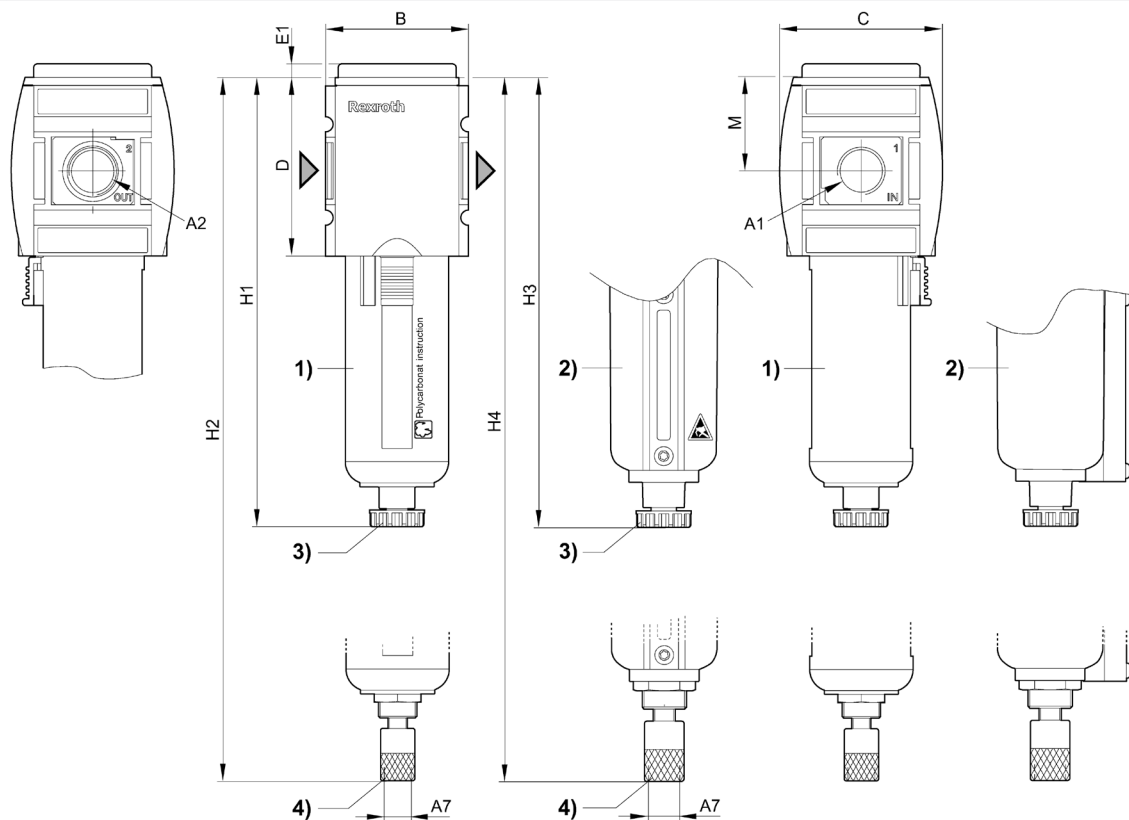
★ **Pre-filter, Series AS3-FLP**  
G 3/8 - G 1/2; filter porosity: 0.3 µm; ATEX certified

Flow rate characteristic



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

Dimensions



- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain

Part No.	A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M
R412007018	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5

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


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**★ Pre-filter, Series AS3-FLP**
**G 3/8 - G 1/2; filter porosity: 0.3 µm; ATEX certified**


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Part No.	A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M
R412007019	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007020	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007024	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007025	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007026	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007027	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007028	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007029	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007033	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007034	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007035	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5

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## Preparation of compressed air → Maintenance units and components

## ★ Microfilter, Series AS3-FLC

G 3/8 - G 1/2; filter porosity: 0.01 µm; ATEX certified



00127784

ATEX	II 2G2D T4 X
Version	Microfilter, Can be assembled into blocks
Installation location	vertical
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Filter element	exchangeable
filter porosity	0.01 µm
Filter reservoir volume	49 cm³
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Borosilicate glass fiber

## 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	Working pressure min./max.	Condensate drain	Reservoir	Protective guard	Note	Weight	Part No.
		[l/min]						[kg]	
	G 3/8	700	1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	-	0.361	R412007036
	G 3/8		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	-	0.41	R412007037
	G 3/8		0 / 16	fully automatic, closed without pressure	Polycarbonate	Polyamide	-	0.41	R412007038
	G 3/8		1.5 / 16	semi-automatic, open without pressure	Die cast zinc	-	1)	0.78	R412007042
	G 3/8		1.5 / 16	fully automatic, open without pressure	Die cast zinc	-	1)	0.833	R412007043
	G 3/8		0 / 16	fully automatic, closed without pressure	Die cast zinc	-	1)	0.833	R412007044
	G 1/2		1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	-	0.361	R412007045
	G 1/2		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	-	0.41	R412007046
	G 1/2		0 / 16	fully automatic, closed without pressure	Polycarbonate	Polyamide	-	0.41	R412007047
	G 1/2		1.5 / 16	semi-automatic, open without pressure	Die cast zinc	-	1)	0.759	R412007051
	G 1/2		1.5 / 16	fully automatic, open without pressure	Die cast zinc	-	1)	0.812	R412007052
	G 1/2		0 / 16	fully automatic, closed without pressure	Die cast zinc	-	1)	0.733	R412007053

1) With window

Nominal flow Qn at 6.3 bar and Δp = 0.1 bar.

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

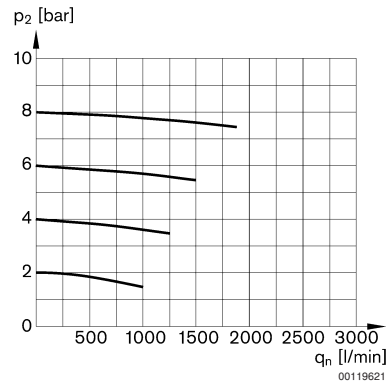
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## Preparation of compressed air → Maintenance units and components

## ★ Microfilter, Series AS3-FLC

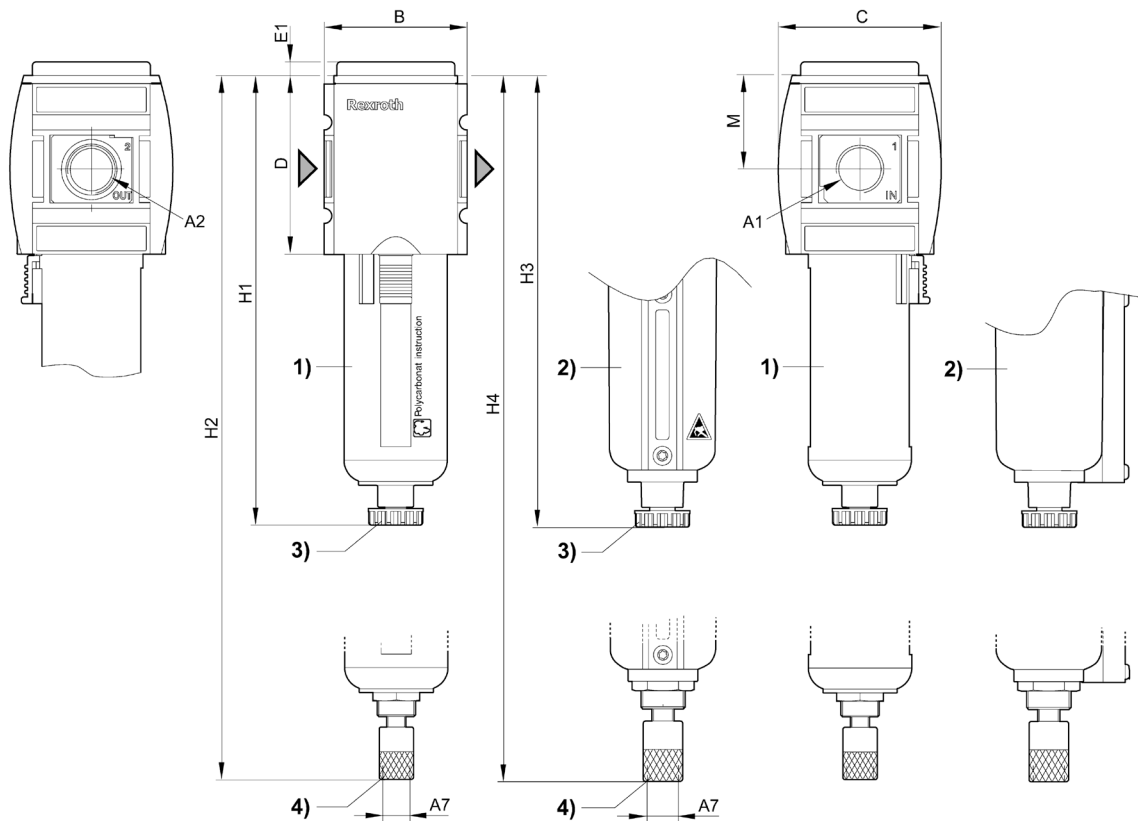
G 3/8 - G 1/2; filter porosity: 0.01 µm; ATEX certified

## Flow rate characteristic



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

## Dimensions



00123326\_m

- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain

Part No.	A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M
R412007036	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

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## Preparation of compressed air → Maintenance units and components

## ★ Microfilter, Series AS3-FLC

G 3/8 - G 1/2; filter porosity: 0.01 µm; ATEX certified

Part No.	A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M
R412007037	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007038	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007042	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007043	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007044	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007045	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007046	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007047	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007051	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007052	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
R412007053	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5

## Preparation of compressed air → Maintenance units and components

## ★ Microfilter, Series AS3-FLC

G 3/8 - G 1/2; filter porosity: 0.01 µm; contamination display: integrated; ATEX certified



ATEX	II 2G2D T4 X
Version	Microfilter, Can be assembled into blocks
Installation location	vertical
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Filter element	exchangeable
filter porosity	0.01 µm
Filter reservoir volume	49 cm³
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Borosilicate glass fiber

## 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	Working pressure min./max.	Condensate drain	Reservoir	Protective guard	Note	Weight	Part No.
		[l/min]						[kg]	
	G 3/8	700	1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	-	0.361	R412007054
	G 3/8		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	-	0.41	R412007055
	G 3/8		0 / 16	fully automatic, closed without pressure	Polycarbonate	Polyamide	-	0.41	R412007056
	G 3/8		1.5 / 16	semi-automatic, open without pressure	Die cast zinc	-	1)	0.783	R412007060
	G 3/8		1.5 / 16	fully automatic, open without pressure	Die cast zinc	-	1)	0.757	R412007061
	G 3/8		0 / 16	fully automatic, closed without pressure	Die cast zinc	-	1)	0.757	R412007062
	G 1/2		1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	-	0.361	R412007063
	G 1/2		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	-	0.41	R412007064
	G 1/2		0 / 16	fully automatic, closed without pressure	Polycarbonate	Polyamide	-	0.762	R412007065
	G 1/2		1.5 / 16	semi-automatic, open without pressure	Die cast zinc	-	1)	0.762	R412007069
	G 1/2		1.5 / 16	fully automatic, open without pressure	Die cast zinc	-	1)	0.736	R412007070
	G 1/2		0 / 16	fully automatic, closed without pressure	Die cast zinc	-	1)	0.736	R412007071

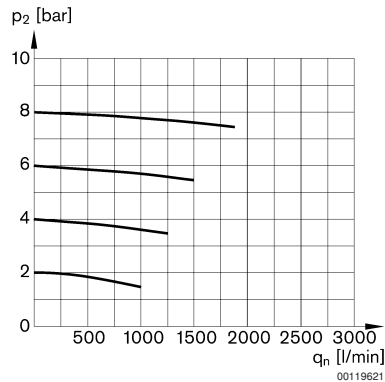
1) With window

Nominal flow Qn at 6.3 bar and Δp = 0.1 bar.

Preparation of compressed air → Maintenance units and components

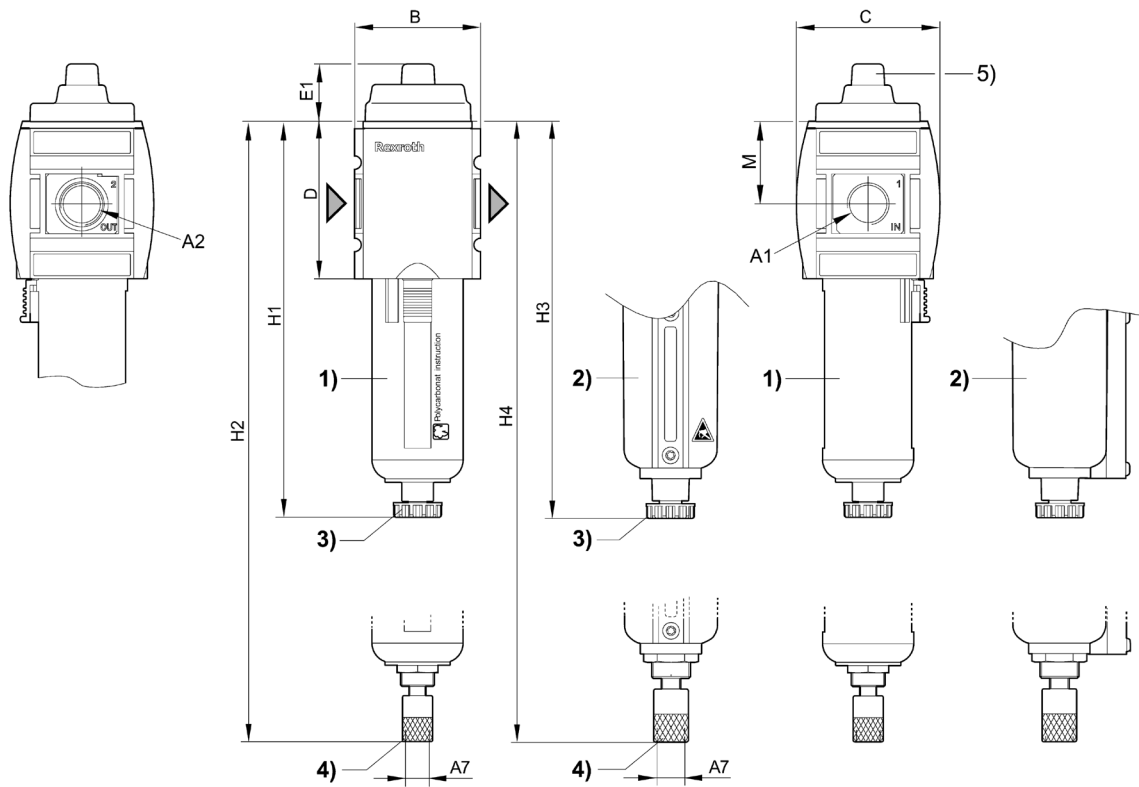
★ **Microfilter, Series AS3-FLC**  
G 3/8 - G 1/2; filter porosity: 0.01 µm; contamination display: integrated; ATEX certified

Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow

Dimensions



- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain
- 5) contamination display

Part No.	A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M
R412007054	G 3/8	G 3/8	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5



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


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**★ Microfilter, Series AS3-FLC**
**G 3/8 - G 1/2; filter porosity: 0.01 µm; contamination display: integrated; ATEX certified**


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Part No.	A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M
R412007055	G 3/8	G 3/8	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007056	G 3/8	G 3/8	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007060	G 3/8	G 3/8	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007061	G 3/8	G 3/8	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007062	G 3/8	G 3/8	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007063	G 1/2	G 1/2	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007064	G 1/2	G 1/2	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007065	G 1/2	G 1/2	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007069	G 1/2	G 1/2	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007070	G 1/2	G 1/2	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5
R412007071	G 1/2	G 1/2	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5

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Preparation of compressed air → Maintenance units and components

★ Active carbon filter, Series AS3-FLA  
G 3/8 - G 1/2; ATEX certified



00121762

ATEX	II 2G2D T4 X
Version	Active carbon filter, Can be assembled into blocks
Installation location	vertical
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air
Filter element	exchangeable
Filter reservoir volume	49 cm³
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
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	

	Port	Qn	Condensate drain	Reservoir	Protective guard	Note	Weight	Part No.
		[l/min]					[kg]	
	G 3/8	1000	without	Polycarbonate	Polyamide	-	0.375	R412007072
	G 3/8			Die cast zinc	-	1)	0.751	R412007074
	G 1/2			Polycarbonate	Polyamide	-	0.375	R412007075
	G 1/2			Die cast zinc	-	1)	0.73	R412007077

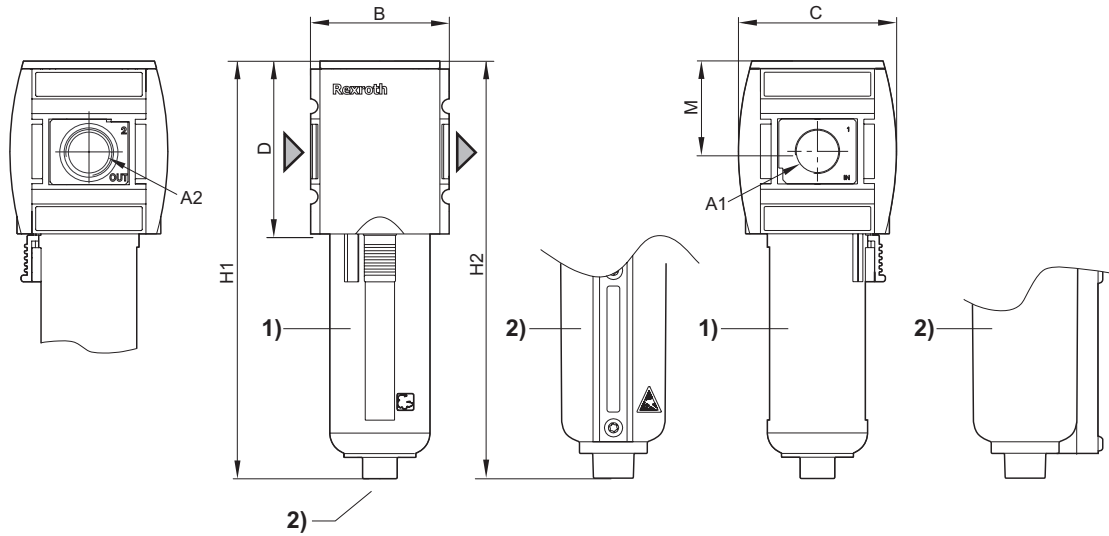
1) With window  
Nominal flow Qn at 6.3 bar and Δp = 0.1 bar.

## Preparation of compressed air → Maintenance units and components

## ★ Active carbon filter, Series AS3-FLA

G 3/8 - G 1/2; ATEX certified

## Dimensions



00123327


Part No.	A1	A2	B	C	D	H1	H2	M				
R412007072	G 3/8	G 3/8	63	74	80	183	187	42.5				
R412007074	G 3/8	G 3/8	63	74	80	183	187	42.5				
R412007075	G 1/2	G 1/2	63	74	80	183	187	42.5				
R412007077	G 1/2	G 1/2	63	74	80	183	187	42.5				

Preparation of compressed air → Maintenance units and components

★ Diaphragm-type dryer, Series AS3-ADD
G 1/2

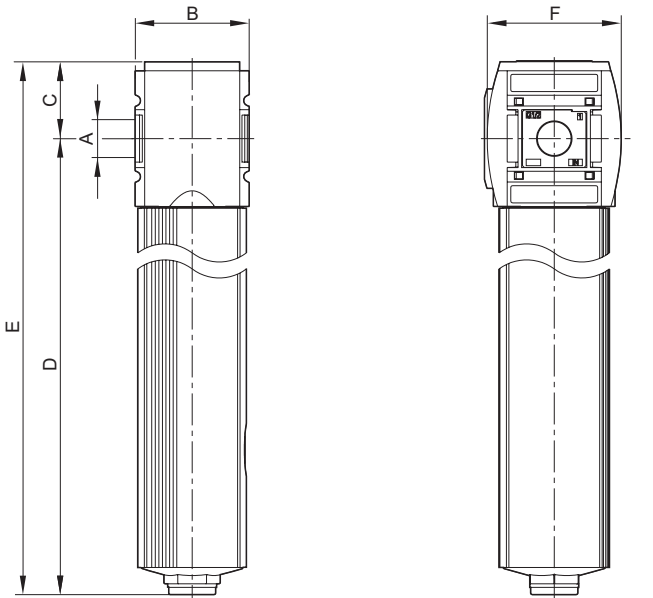
Installation location	vertical
Ambient temperature min./max.	+2°C / +50°C
Medium temperature min./max.	+2°C / +50°C
Medium	Compressed air
Filter element	not exchangeable
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Reservoir	Aluminum

Technical Remarks
<div> <div>■</div> Note: air may not contain condensate </div> <div> <div>■</div> Recommended pre-filter: standard filter 5 μm + microfilter 0.01 μm </div>

	Port	Qn [l/min]	Note	Part No.
	G 1/2	400	-	R412007078
		500	1)	R412007079
		660	1)	R412007080
		950	1)	R412007081

1) incl. distributor

Dimensions



00133947

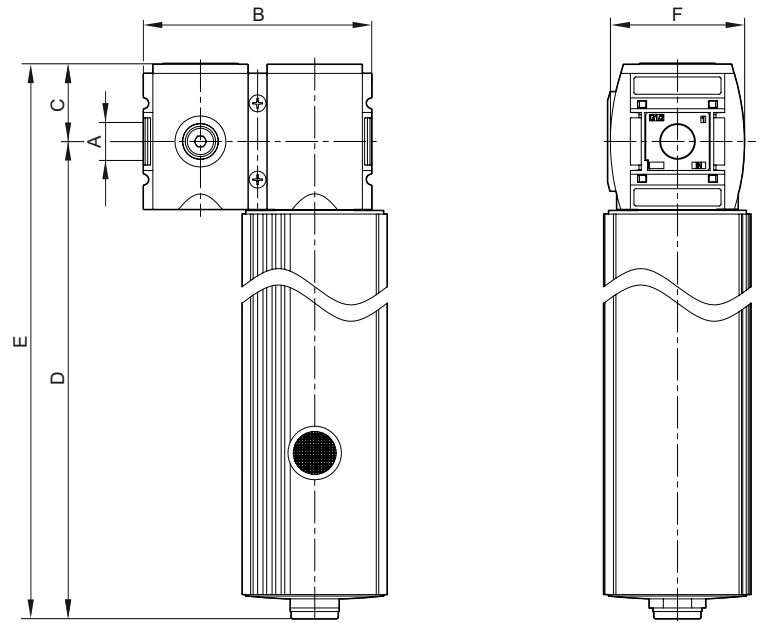
## Preparation of compressed air → Maintenance units and components

## ★ Diaphragm-type dryer, Series AS3-ADD

G 1/2

A	Qn [l/min]	A	B	C	D	E	F						
G 1/2	400	G 1/2	63	43	478	521	74						

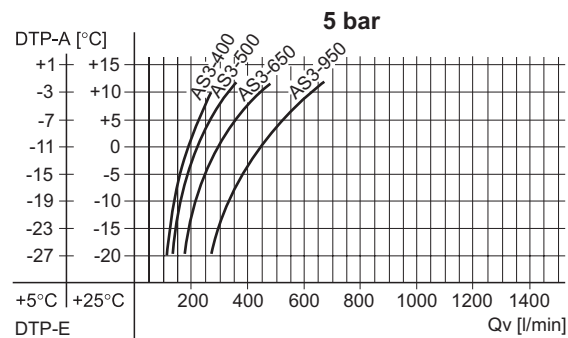
## Dimensions



00133948

A	Qn [l/min]	A	B	C	D	E	F						
G 1/2	500	G 1/2	126	43	464	507	74						
G 1/2	660	G 1/2	126	43	515	558	74						
G 1/2	950	G 1/2	126	43	584	627	74						

## performance charts



00133942

DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

For different conditions, please contact the nearest Bosch Rexroth sales office.

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● Service products - existing standard program, worldwide service

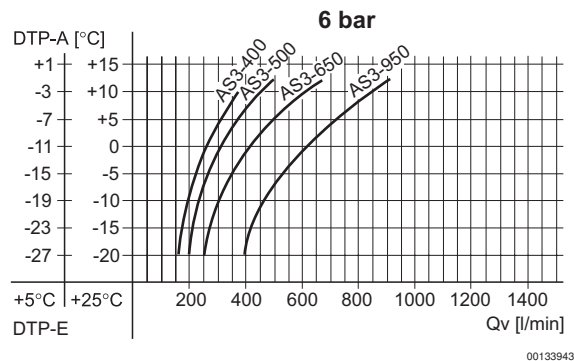
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## Preparation of compressed air → Maintenance units and components

## ★ Diaphragm-type dryer, Series AS3-ADD

G 1/2

## performance charts



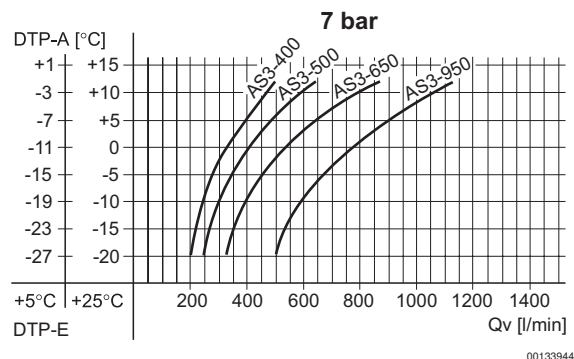
DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

For different conditions, please contact the nearest Bosch Rexroth sales office.

## performance charts



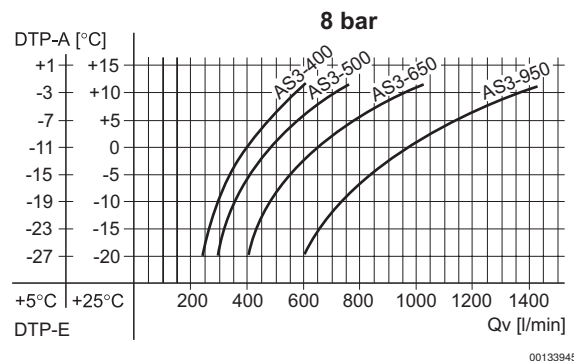
DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

For different conditions, please contact the nearest Bosch Rexroth sales office.

## performance charts



DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

For different conditions, please contact the nearest Bosch Rexroth sales office.

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

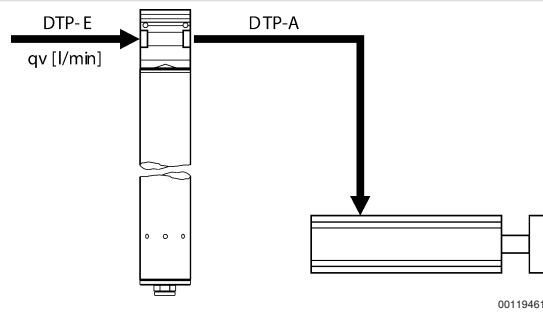
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## Preparation of compressed air → Maintenance units and components

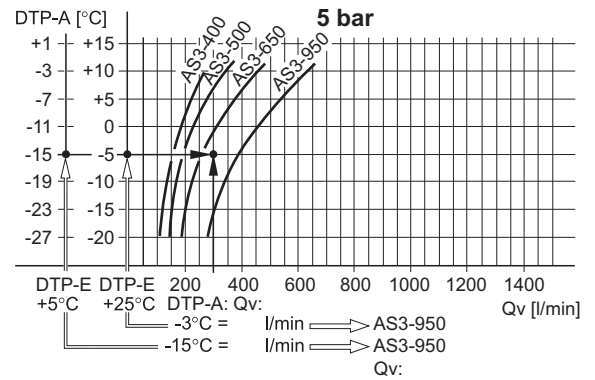
## ★ Diaphragm-type dryer, Series AS3-ADD

G 1/2

**example**  
 wanted: suitable membrane dryer



**Example**  
 given values:  $Q_v = 350 \text{ l/min}$ ,  $DTP-E = +5 \text{ } [ +25 ] ^\circ\text{C}$ ,  
 searched values:  $DTP-A = -15 \text{ } [ -3 ] ^\circ\text{C}$  a suitable membrane dryer



Result: membrane dryer series AS3-950 (with a  $Q_v$  of 950 l/min),  
 part no. R412007081

Preparation of compressed air → Maintenance units and components

★ Standard oil-mist lubricator, Series AS3-LBS  
G 3/8 - G 1/2; ATEX certified



00121761

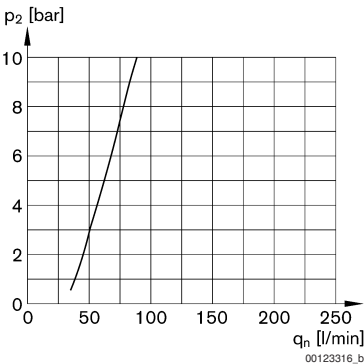
ATEX	II 2G2D T4 X
Version	Oil-mist lubricator, Can be assembled into blocks
Installation location	vertical
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air
Lubricator reservoir volume	80 cm³
Type of filling	Semi-automatic oil filling during operation Manual oil filling
Oil type	HL 32 (DIN 51 524 - ISO VG 32) HL 68 (DIN 51 524 - ISO VG 68)
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seal	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.
■ Electrical level detection only with ST6 sensor with reed contact
■ Oil dosing at 1000 l/min [drops/min]: 1-2

	Port	Qn	Reservoir	Protective guard	Note	Weight	Part No.
		[l/min]				[kg]	
	G 3/8	8000	Polycarbonate	Polyamide	-	0.343	R412007225
	G 3/8		Polycarbonate	Polyamide	1)	0.343	R412007226
	G 3/8		Die cast zinc	-	2)	0.749	R412007229
	G 1/2		Polycarbonate	Polyamide	-	0.343	R412007231
	G 1/2		Polycarbonate	Polyamide	1)	0.343	R412007232
	G 1/2		Die cast zinc	-	2)	0.728	R412007235

1) Electrical level detection: with external query  
2) With window  
Nominal flow Qn at 6.3 bar and Δp = 1 bar.

Lubricator activation margin



p2 = secondary pressure  
qn = nominal flow

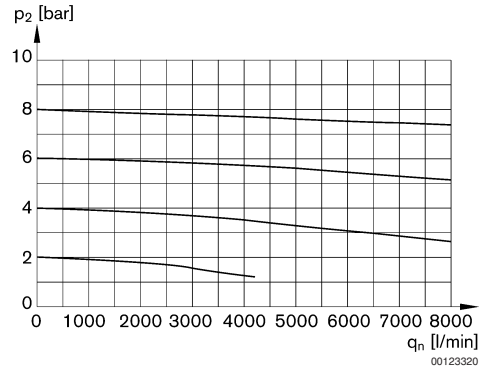


# Preparation of compressed air → Maintenance units and components

## ★ Standard oil-mist lubricator, Series AS3-LBS

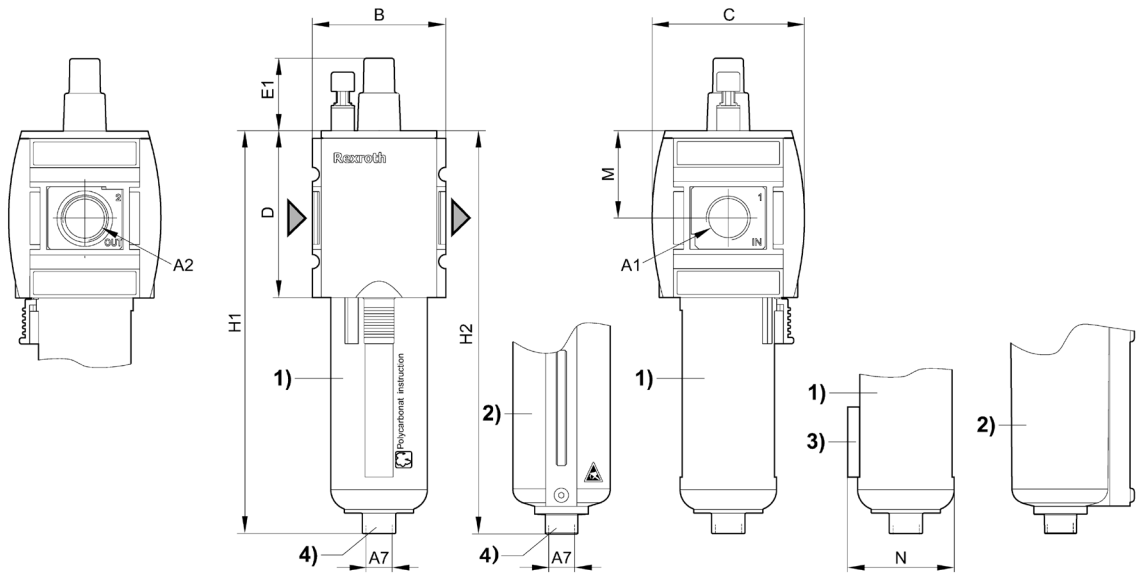
G 3/8 - G 1/2; ATEX certified

### Flow rate characteristic



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

### Dimensions



00121345

- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Holder for sensor
- 4) Port for semi-automatic oil filling

A1	A2	A7	B	C	D	E1	H1	H2	M	N			
G 1/2	G 1/2	G 1/8	63	74	80	27.5	183	187	42.5	48			
G 3/8	G 3/8	G 1/8	63	74	80	27.5	183	187	42.5	48			

## Preparation of compressed air → Maintenance units and components

## ★ Filling unit, electrically operated, Series AS3-SSU

G 3/8 - G 1/2; pipe connection; Electr. connection: Plug, ISO 15217, form C; ATEX optional



00119381

## Parts

## Version

## Sealing principle

## Working pressure min./max.

## Ambient temperature min./max.

## Medium temperature min./max.

## Medium

## Particle size max.

## Materials:

## Housing

## Seals

## Front plate

## Threaded bushing

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

Poppet valve, Can be assembled into blocks

soft sealing

2.5 bar / 10 bar

-10 °C / +50 °C

-10 °C / +50 °C

Compressed air

5 µm

Polyamide

Acrylonitrile Butadiene Rubber

Acrylonitrile butadiene styrene

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.
- ATEX optional: The ATEX ID depends on the selected pilot valve.

Operating 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	AC 60 Hz
			W	VA	VA	VA	VA
24 V	-	-	2	-	-	-	-
-	110 V	110 V	-	2.2	1.6	1.6	1.4
-	220 V	230 V	-	2.2	1.6	1.6	1.4

		Port	Exhaust	Operating voltage			Qn			Weight	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz		1►2	2►3			
										[l/min]	[kg]	
		G 3/8	G 1/2	24 V	-	-	3500	3500	3200	0.924	1); 3); 4)	R412007278
		G 3/8		-	110 V	110 V						R412007279
		G 3/8		-	220 V	230 V						R412007280
		G 1/2		24 V	-	-						R412007283
		G 1/2		-	110 V	110 V						R412007284
		G 1/2		-	220 V	230 V						R412007285

1) Electr. connection: M12x1 electrical connector

2) With adjustment screw lock

3) IP65 (EN60529)

4) Basic valve with pilot valve

5) Basic valve without pilot valve

6) Basic valve without pilot valve, with CNOMO subbase

7) ATEX optional

Electr. connection: Plug; ISO 15217, form C

Nominal flow Qn at 6.3 bar and Δp = 0.1 bar.

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

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## Preparation of compressed air → Maintenance units and components

## ★ Filling unit, electrically operated, Series AS3-SSU

G 3/8 - G 1/2; pipe connection; Electr. connection: Plug, ISO 15217, form C; ATEX optional

		Port	Ex- haust	Operating voltage			Qn			Weight	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz		1►2	2►3			
							[l/min]			[kg]		

1) Electr. connection: M12x1 electrical connector

2) With adjustment screw lock

3) IP65 (EN60529)

4) Basic valve with pilot valve

5) Basic valve without pilot valve

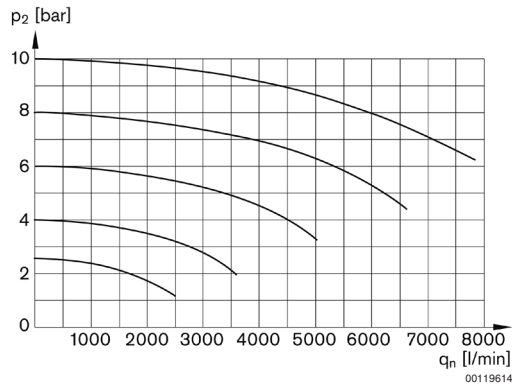
6) Basic valve without pilot valve, with CNOMO subbase

7) ATEX optional

Electr. connection: Plug; ISO 15217, form C

Nominal flow Qn at 6.3 bar and  $\Delta p = 0.1$  bar.

## Flow rate characteristic



p2 = secondary pressure

qn = nominal flow

★ Core products - preferably for new constructions, worldwide service

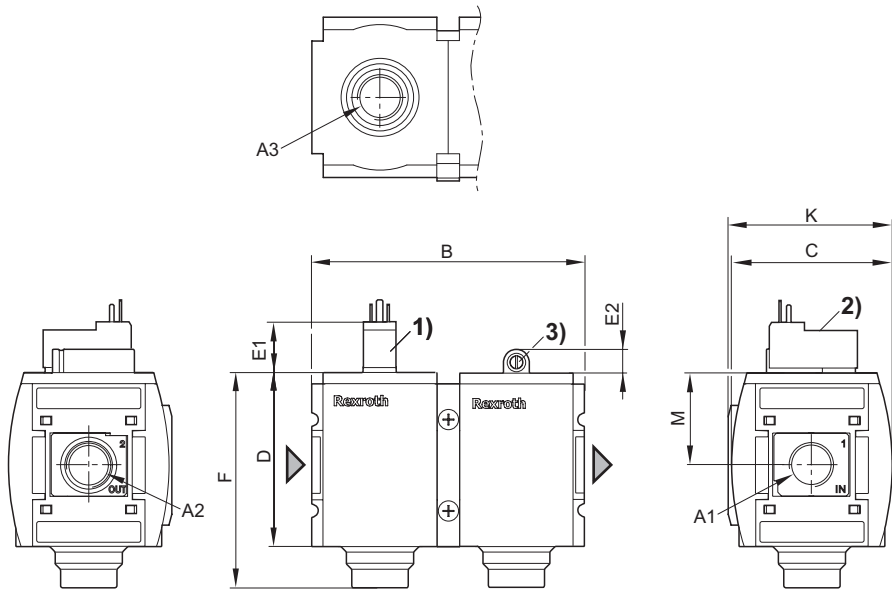
● Service products - existing standard program, worldwide service

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Preparation of compressed air → Maintenance units and components

★ **Filling unit, electrically operated, Series AS3-SSU**  
G 3/8 - G 1/2; pipe connection; Electr. connection: Plug, ISO 15217, form C; ATEX optional

With pilot valve series DO16



00119469

- A1 = input  
A2 = output  
A3 = ventilation port  
1) electrical connector form C, ISO 15217  
2) Manual override  
3) Adjustment screw for filling time

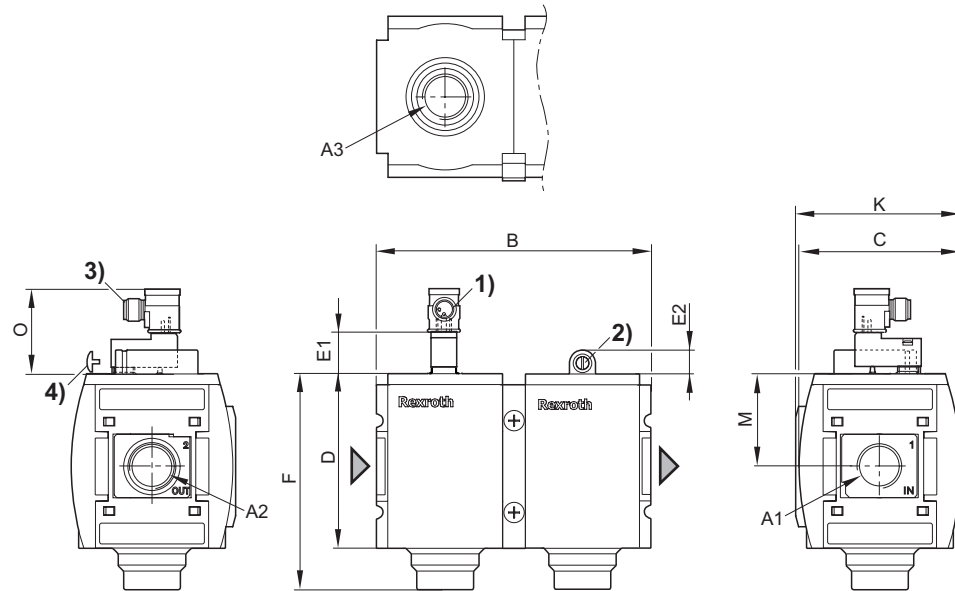
A1	A2	A3	B	C	D	E1	E2	F	K	M			
G 1/2	G 1/2	G 1/2	125.75	74	80	23.2	11	99	75.5	42.5			
G 3/8	G 3/8	G 1/2	125.75	74	80	23.2	11	99	75.5	42.5			

## Preparation of compressed air → Maintenance units and components

## ★ Filling unit, electrically operated, Series AS3-SSU

G 3/8 - G 1/2; pipe connection; Electr. connection: Plug, ISO 15217, form C; ATEX optional

Electr. connection: M12x1 electrical connector



00127876

A1 = input

A2 = output

A3 = ventilation port

1) electrical connector form C, ISO 15217

2) Adjustment screw for filling time

3) Electr. connection: M12x1 electrical connector

4) Adjustment screw lock

A1	A2	A3	B	C	D	E1	E2	F	K	M	O		
G 1/2	G 1/2	G 1/2	125.75	74	80	12.3	11	99	75.5	42.5	25.5		
G 3/8	G 3/8	G 1/2	125.75	74	80	12.3	11	99	75.5	42.5	25.5		

★ Core products - preferably for new constructions, worldwide service

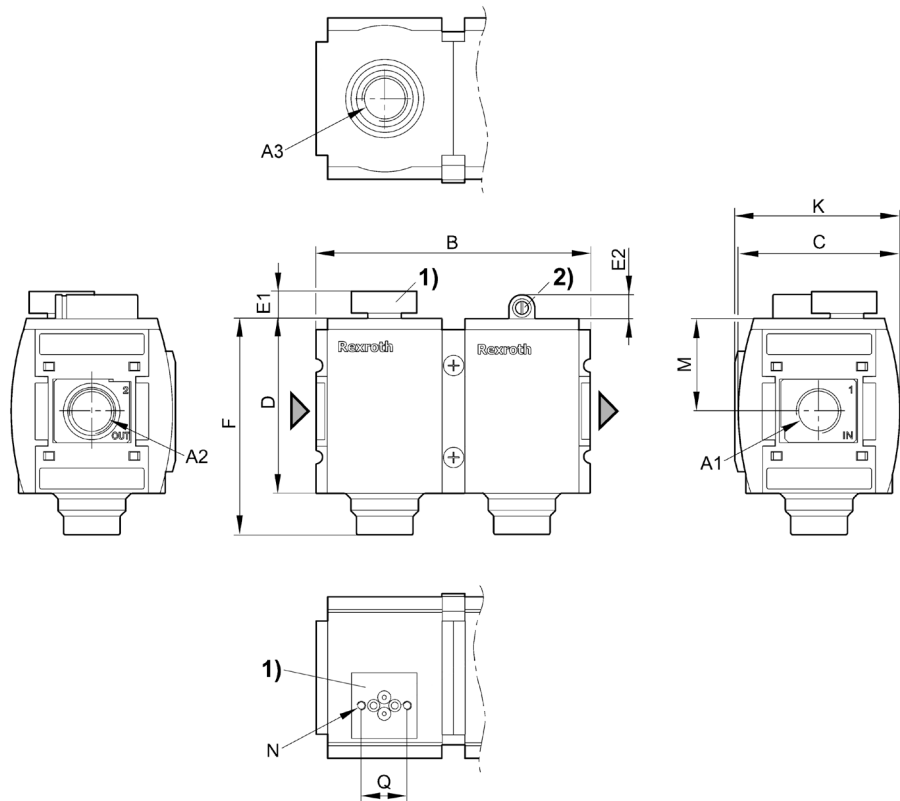
● Service products - existing standard program, worldwide service

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Preparation of compressed air → Maintenance units and components

★ **Filling unit, electrically operated, Series AS3-SSU**  
G 3/8 - G 1/2; pipe connection; Electr. connection: Plug, ISO 15217, form C; ATEX optional

With transition plate for pilot valve series DO30



00130387

- A1 = input  
A2 = output  
A3 = ventilation port  
1) Transition plate with CNOMO porting configuration for pilot valve DO30  
2) Adjustment screw for filling time

A1	A2	A3	B	C	D	E1	E2	F	K	M	N	Q
G 1/2	G 1/2	G 1/2	125.75	74	80	12.3	11	99	75.5	42.5	M4	21
G 3/8	G 3/8	G 1/2	125.75	74	80	12.3	11	99	75.5	42.5	M4	21

## Preparation of compressed air → Maintenance units and components

## ★ Filling unit, pneumatically operated, Series AS3-SSU

G 3/8 - G 1/2; pipe connection; ATEX certified



00119379

ATEX  
Parts

Version  
Sealing principle  
Working pressure min./max.  
Ambient temperature min./max.  
Medium temperature min./max.  
Medium  
Particle size max.

Materials:

Housing  
Seals  
Front plate  
Threaded bushing

II 2G2D T4 X

3/2-way valve, pneumatically operated, Filling valve

Poppet valve, Can be assembled into blocks soft sealing

2.5 bar / 10 bar

-10 °C / +50 °C

-10 °C / +50 °C

Compressed air

5 µm

Polyamide

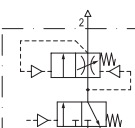
Acrylonitrile Butadiene Rubber

Acrylonitrile butadiene styrene

Die cast zinc

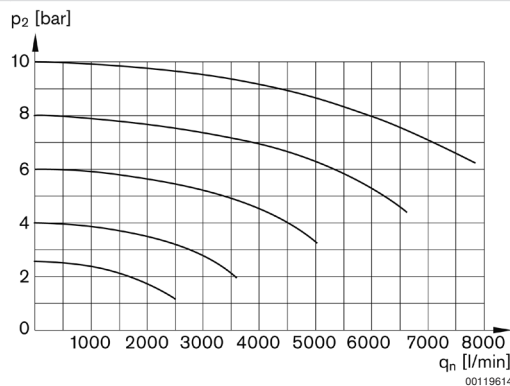
## Technical Remarks

- 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	Exhaust	Qn			Control pressure min./max.	Weight	Note	Part No.
				1►2	2►3				
			[l/min]			[bar]	[kg]		
	G 3/8	G 1/2	3500	3500	3200	2.5 / 16	0.924	-	R412007276
	G 1/2							-	R412007281
	G 1/2							1)	R412007289

1) With adjustment screw lock  
Nominal flow Qn at 6.3 bar and  $\Delta p = 1$  bar.

## Flow rate characteristic



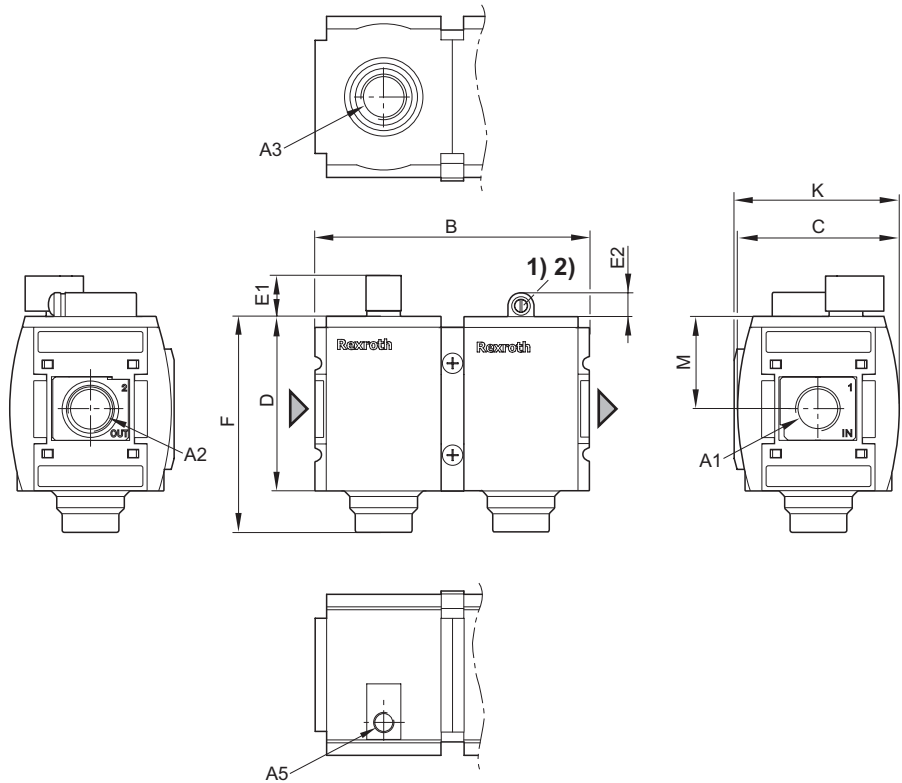
00119614

p2 = secondary pressure  
qn = nominal flow

Preparation of compressed air → Maintenance units and components

★ Filling unit, pneumatically operated, Series AS3-SSU  
G 3/8 - G 1/2; pipe connection; ATEX certified

Dimensions



00128548

- 1) Adjustment screw for filling time
- 2) Adjustment screw lock
- A1 = input
- A2 = output
- A3 = ventilation port
- A5 = pilot connection

Part No.	A1	A2	A3	A5	B	C	D	E1	E2	F	K	M
R412007276	G 3/8	G 3/8	G 1/2	G 1/8	125.75	74	80	18.5	11	99	75.5	42.5
R412007281	G 1/2	G 1/2	G 1/2	G 1/8	125.75	74	80	18.5	11	99	75.5	42.5



## Preparation of compressed air → Maintenance units and components

★ **3/2-way valve, electrically operated, Series AS3-SOV**  
**G 3/8 - G 1/2; pipe connection; ATEX optional**



00119378

Version  
 Sealing principle  
 Working pressure min./max.  
 Ambient temperature min./max.  
 Medium temperature min./max.  
 Medium  
 Particle size max.

Poppet valve, Can be assembled into blocks  
 soft sealing  
 2.5 bar / 10 bar  
 -10 °C / +50 °C  
 -10 °C / +50 °C  
 Compressed air  
 5 µm

Materials:  
 Housing  
 Seals  
 Front plate  
 Threaded bushing

Polyamide  
 Acrylonitrile Butadiene Rubber  
 Acrylonitrile butadiene styrene  
 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.
- ATEX optional: The ATEX ID depends on the selected pilot valve.

Operating 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	AC 60 Hz
			W	VA	VA	VA	VA
24 V	-	-	2	-	-	-	-
-	110 V	110 V	-	2.2	1.6	1.6	1.4
-	220 V	230 V	-	2.2	1.6	1.6	1.4
-	-	-	-	2.2	1.6	1.6	1.4

		Port	Ex-haust	Operating voltage			Qn			Weight	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz		1►2	2►3			
							[l/min]			[kg]		
		G 3/8	G 1/2	24 V	-	-	4500	4500	3200	0.459	2); 3)	R412007265
		G 3/8		-	110 V	110 V					2); 3)	R412007266
		G 3/8		-	220 V	230 V					2); 3)	R412007267
		G 3/8		-	-	-					4); 5)	R412007264
		G 1/2		24 V	-	-					2); 3)	R412007269
		G 1/2		-	110 V	110 V					2); 3)	R412007270
		G 1/2		-	220 V	230 V					2); 3)	R412007271
		G 1/2		-	-	-					4); 5)	R412007268
		G 1/2		24 V	-	-					1); 5)	R412007291
		G 1/2		-	-	-					4)	R412007258
		G 1/2		-	-	-					4)	R412007259

1) Electr. connection: M12x1 electrical connector

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

3) Basic valve with pilot valve

4) Basic valve without pilot valve

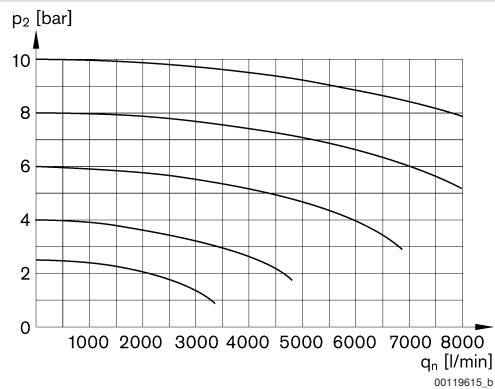
5) ATEX optional

Nominal flow Qn at 6.3 bar and Δp = 1 bar.

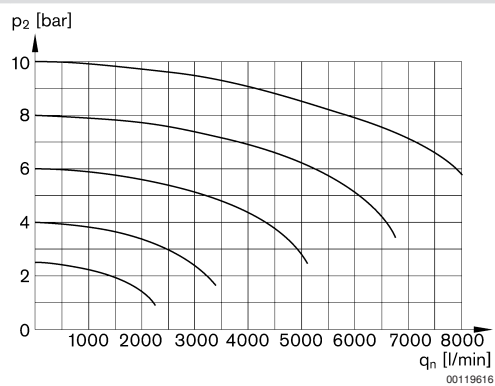
★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

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**Preparation of compressed air → Maintenance units and components**
**★ 3/2-way valve, electrically operated, Series AS3-SOV**
**G 3/8 - G 1/2; pipe connection; ATEX optional**
**Flow rate characteristic**


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

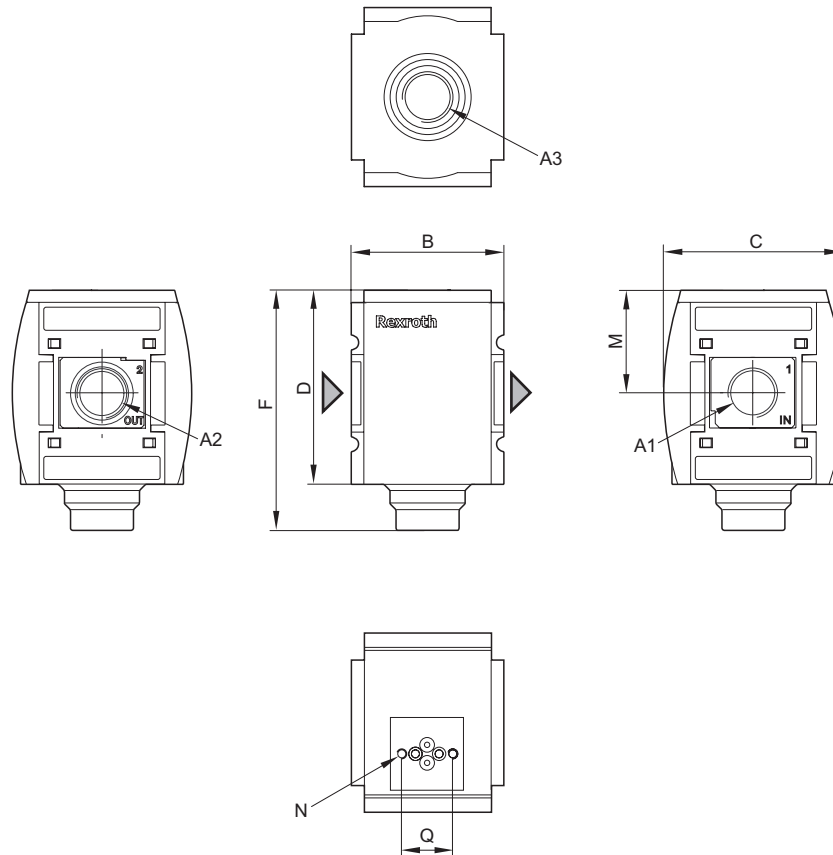
**Rear exhaust**


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

## Preparation of compressed air → Maintenance units and components

★ **3/2-way valve, electrically operated, Series AS3-SOV**  
**G 3/8 - G 1/2; pipe connection; ATEX optional**

R412007264 / R412007268



00133925

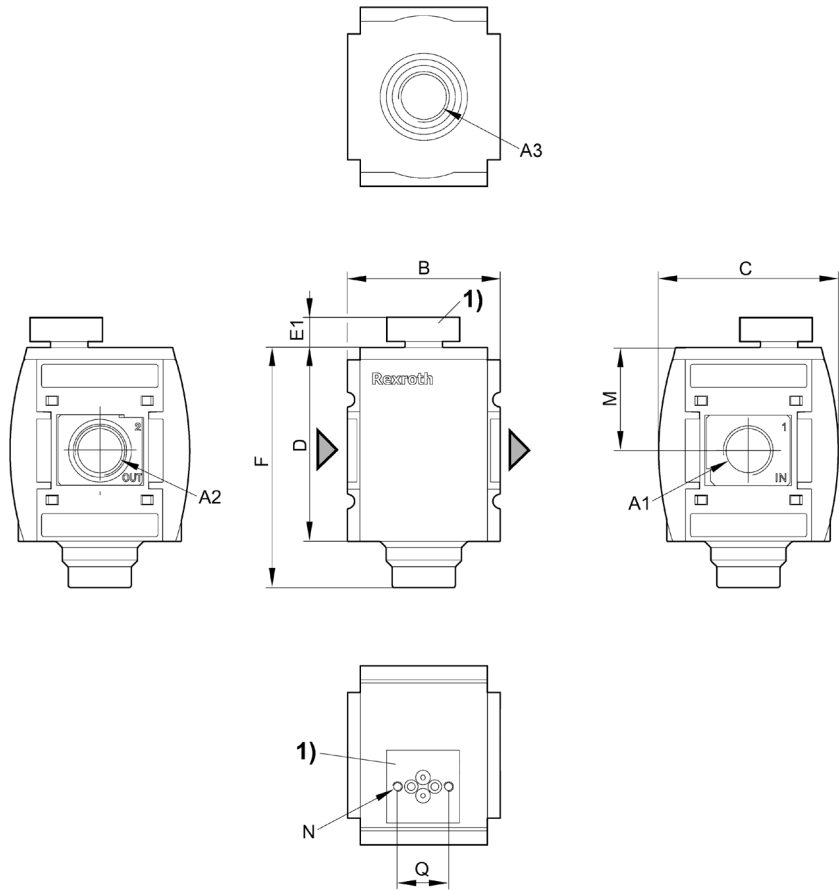
A1 = input  
 A2 = output  
 A3 = ventilation port

A1	A2	A3	B	C	D	F	M	N	Q				
G 1/2	G 1/2	G 1/2	63	74	80	99	42.5	M4	21				
G 3/8	G 3/8	G 1/2	63	74	80	99	42.5	M4	21				

Preparation of compressed air → Maintenance units and components

★ 3/2-way valve, electrically operated, Series AS3-SOV  
G 3/8 - G 1/2; pipe connection; ATEX optional

R412007258 / R412007259



00130391

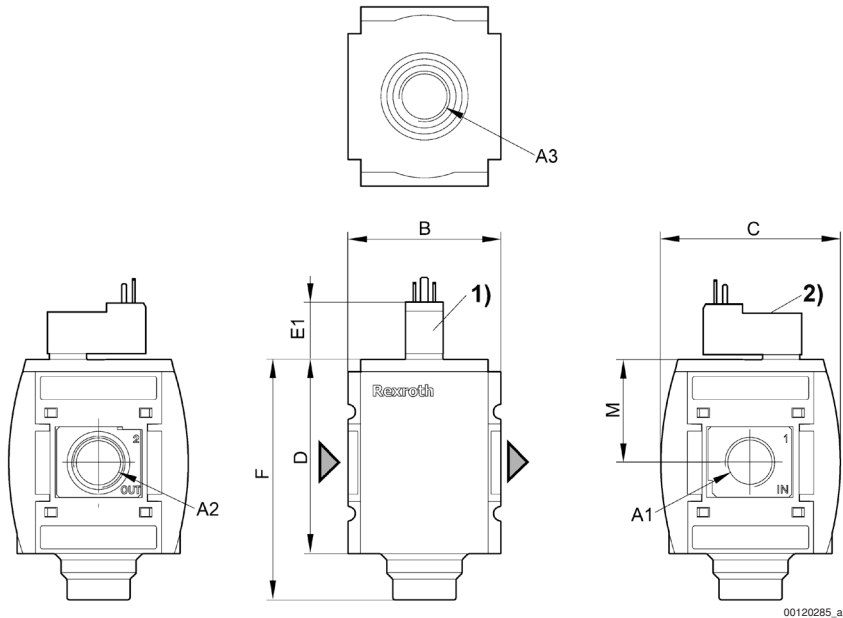
- A1 = input  
A2 = output  
A3 = ventilation port  
1) Transition plate with CNOMO porting configuration for pilot valve DO30

A1	A2	A3	B	C	D	F	M	N	Q				
G 1/2	G 3/8	G 1/2	63	74	80	99	42.5	M4	21				

Preparation of compressed air → Maintenance units and components

★ 3/2-way valve, electrically operated, Series AS3-SOV  
G 3/8 - G 1/2; pipe connection; ATEX optional

R412007265 / R412007266 / R412007267 / R412007269 / R412007270 / R412007271



- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Electrical connection
- 2) Manual override

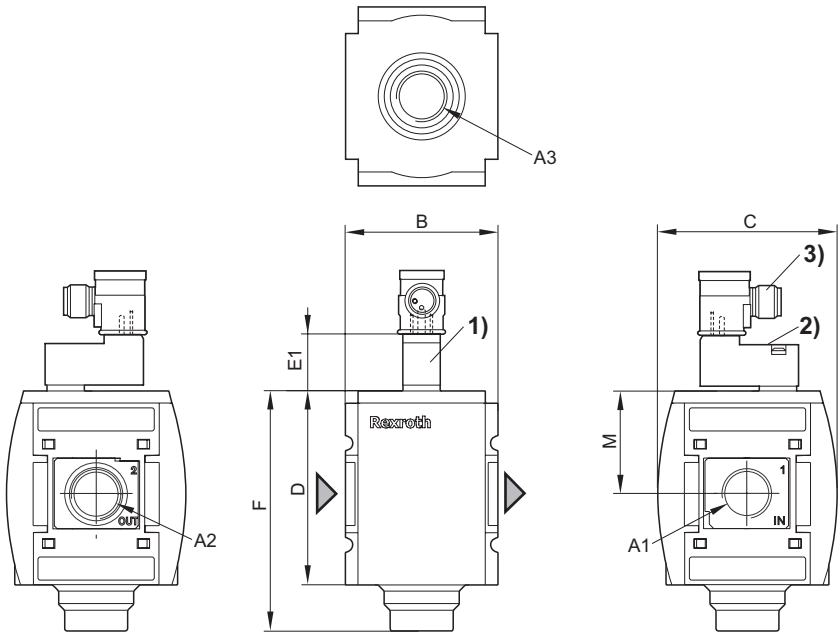
A1	A2	A3	B	C	D	E1	F	M					
G 1/2	G 1/2	G 1/2	63	74	80	23.2	99	42.5					
G 3/8	G 3/8	G 1/2	63	74	80	23.2	99	42.5					
G 3/8	G 1/2	G 1/2	63	74	80	23.2	99	42.5					

★ Core products - preferably for new constructions, worldwide service  
● Service products - existing standard program, worldwide service  
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Preparation of compressed air → Maintenance units and components

★ 3/2-way valve, electrically operated, Series AS3-SOV  
G 3/8 - G 1/2; pipe connection; ATEX optional

R412007291



00127879

- A1 = input
- A2 = output
- A3 = ventilation port
- 1) electrical connector form C, ISO 15217
- 2) Manual override
- 3) electrical connector form C, ISO 15217

A1	A2	A3	B	C	D	E1	F	M					
G 1/2	G 3/8	G 1/2	63	74	80	23.2	99	42.5					

## Preparation of compressed air → Maintenance units and components

★ **3/2-way valve, pneumatically operated, Series AS3-SOV**  
**G 3/8 - G 1/2; pipe connection; ATEX certified**



00119377

## ATEX

Version

Sealing principle

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

## Materials:

Housing

Seals

Front plate

Threaded bushing

II 2G2D T4 X

Poppet valve, Can be assembled into blocks  
soft sealing

2 bar / 10 bar

-10 °C / +50 °C

-10 °C / +50 °C

Compressed air

Polyamide

Acrylonitrile Butadiene Rubber

Acrylonitrile butadiene styrene

Die cast zinc

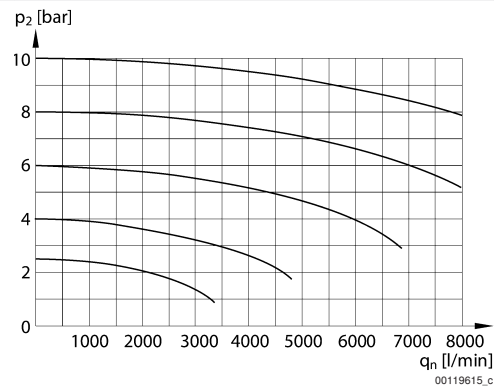
## Technical Remarks

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

	Port	Exhaust	Qn			Control pressure min./max.	Weight	Part No.
				1►2	2►3			
				[l/min]		[bar]	[kg]	
	G 3/8	G 1/2	4500	4500	3200	2.5 / 16	0.459	R412007262
	G 1/2							R412007263

Nominal flow Qn at 6.3 bar and  $\Delta p = 1$  bar.

## Flow rate characteristic



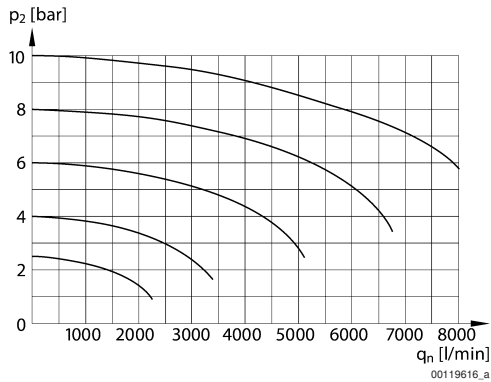
p<sub>2</sub> = secondary pressure

q<sub>n</sub> = nominal flow

Preparation of compressed air → Maintenance units and components

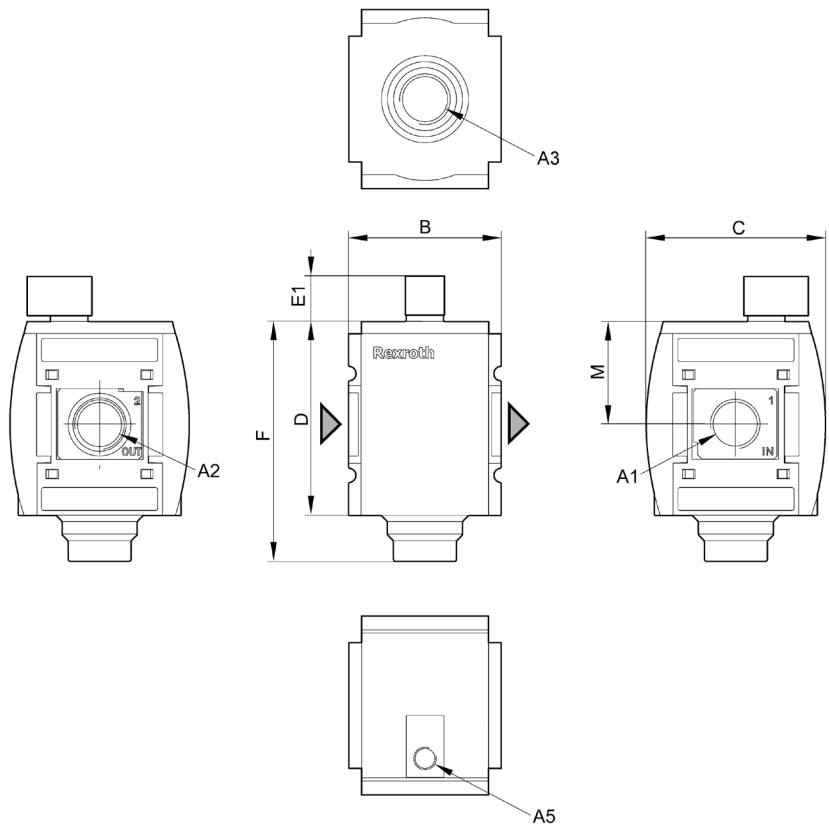
★ 3/2-way valve, pneumatically operated, Series AS3-SOV  
G 3/8 - G 1/2; pipe connection; ATEX certified

Rear exhaust



p2 = secondary pressure  
qn = nominal flow

Dimensions



A3 = ventilation port  
A5 = pilot connection  
A1 = input  
A2 = output

00119471\_a

Part No.	A1	A2	A3	A5	B	C	D	E1	F	M		
R412007262	G 3/8	G 3/8	G 1/2	G 1/8	63	74	80	18.5	99	42.5		

★ Core products - preferably for new constructions, worldwide service  
● Service products - existing standard program, worldwide service  
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**Preparation of compressed air → Maintenance units and components**


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**★ 3/2-way valve, pneumatically operated, Series AS3-SOV**
**G 3/8 - G 1/2; pipe connection; ATEX certified**


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Part No.	A1	A2	A3	A5	B	C	D	E1	F	M		
R412007263	G 1/2	G 1/2	G 1/2	G 1/8	63	74	80	18.5	99	42.5		

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Preparation of compressed air → Maintenance units and components

★ 3/2-shut-off valve, mechanically operated, Series AS3-BAV  
G 3/8 - G 1/2; ATEX certified



00127429

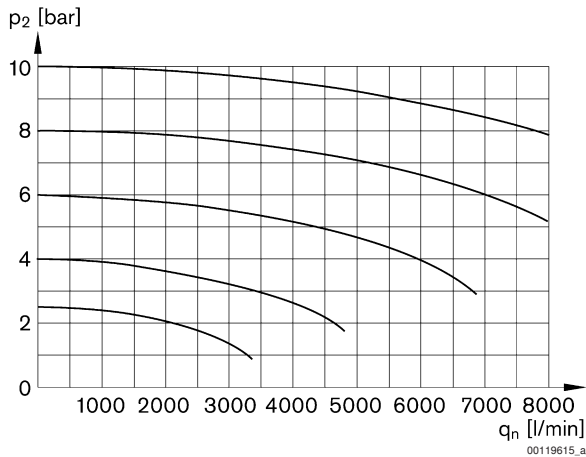
ATEX Version	II 2G2D T4 X Ball valve, Can be assembled into blocks with padlock lockable
Control element	rotary switch
Sealing principle	hard sealing
Working pressure min./max.	0 bar / 16 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Materials:	
Housing	Polyamide
Seals	Polytetrafluorethylene
Control element	Polyoxymethylene
Front cover	Acrylonitrile butadiene styrene
Threaded bushing	Die cast zinc
Locking base	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	Exhaust	Qn		Weight	Part No.
			1►2	2►3		
			[l/min]		[kg]	
	G 3/8					R412007260
	G 1/2	G 1/2	4500	3200	0.446	R412007261

Nominal flow Qn at 6.3 bar and Δp = 1 bar.

Flow rate characteristic



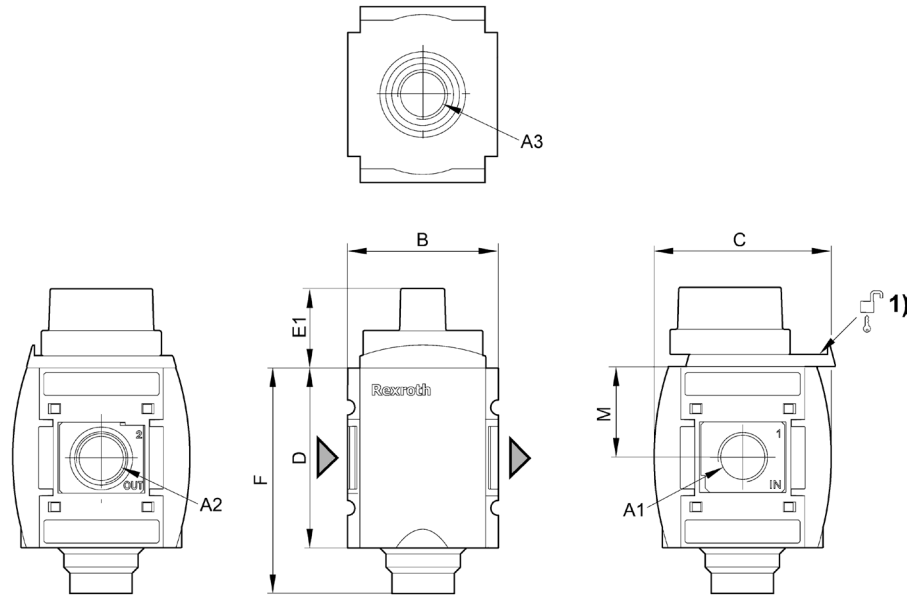
p2 = secondary pressure  
qn = nominal flow

## Preparation of compressed air → Maintenance units and components

## ★ 3/2-shut-off valve, mechanically operated, Series AS3-BAV

G 3/8 - G 1/2; ATEX certified

## Dimensions



00127650

A3 = ventilation port

A1 = input

A2 = output

1) Mounting option for padlocks; max. shackle Ø 8

A1	A2	A3	B	C	D	E1	F	M					
G 1/2	G 1/2	G 1/2	63	74	80	28	99	42.5					
G 3/8	G 3/8	G 1/2	63	74	80	28	99	42.5					

Preparation of compressed air → Maintenance units and components

★ Filling valve, pneumatically operated, Series AS3-SSV  
G 3/8 - G 1/2; ATEX certified



00119766

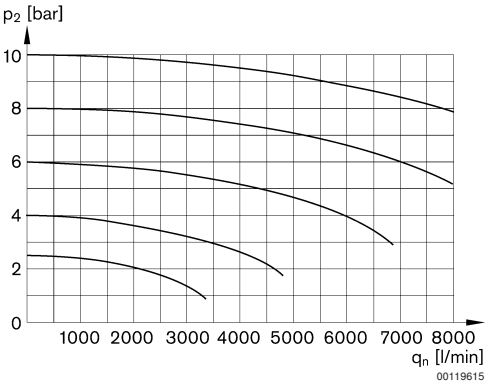
ATEX	II 2G2D T4 X
Version	Poppet valve, Can be assembled into blocks
Sealing principle	soft sealing
Working pressure min./max.	2.5 bar / 16 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Particle size max.	5 µm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber
Front cover	Acrylonitrile butadiene styrene
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	Note	Weight	Part No.
		[l/min]		[kg]	
	G 3/8	4500	-	0.43	R412007272
	G 1/2		-		R412007273
	G 1/2		1)		R412007275

Nominal flow Qn at 6.3 bar and Δp = 1 bar.  
1) With adjustment screw lock

Flow rate characteristic



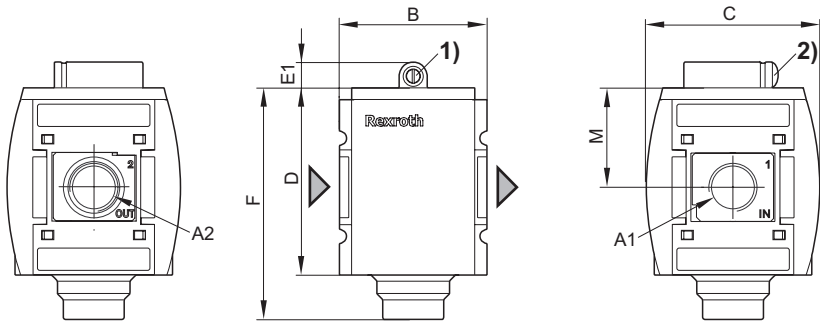
00119615

p2 = secondary pressure  
qn = nominal flow

Preparation of compressed air → Maintenance units and components

★ Filling valve, pneumatically operated, Series AS3-SSV  
G 3/8 - G 1/2; ATEX certified

Dimensions



00120279

- A1 = input  
A2 = output  
1) Adjustment screw for filling time  
2) Adjustment screw lock

A1	A2	B	C	D	E1	F	M						
G 1/2	G 1/2	63	74	80	11	99	42.5						
G 3/8	G 3/8	63	74	80	11	99	42.5						

★ Core products - preferably for new constructions, worldwide service  
● Service products - existing standard program, worldwide service  
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Preparation of compressed air → Maintenance units and components

★ Distributor, Series AS3-DIS  
G 3/8 - G 1/2; Distributor 4x; ATEX certified



00119389

ATEX	II 2G2D T4 X
Version	Can be assembled into blocks
Installation location	arbitrary
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seal	Acrylonitrile Butadiene Rubber

Technical Remarks
■ Suitable for direct mount on PE1 and PM1 series pressure switch (flange version)

	Port	Qn					Weight	Part No.
		1►2	1►3	1►4	1►5	1►6		
		[l/min]					[kg]	
	G 3/8							R412007250
	G 1/2	7250	5500	2250	2250	2250	0.32	R412007251

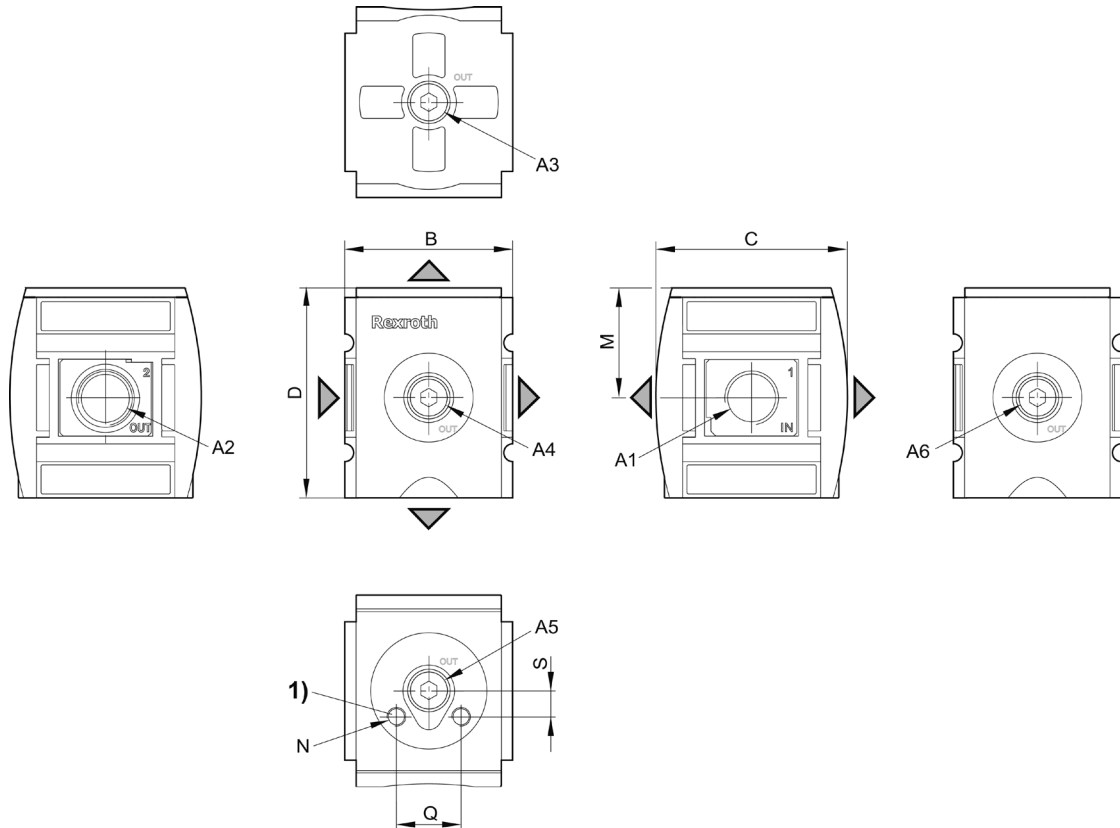
Nominal flow Qn at 6.3 bar and Δp = 1 bar.

## Preparation of compressed air → Maintenance units and components

## ★ Distributor, Series AS3-DIS

G 3/8 - G 1/2; Distributor 4x; ATEX certified

## Dimensions



00124429

1) Mounting thread for pressure switch

A1	A2	A3	A4	A5	A6	B	C	D	M	N	Q	S	
G 1/2	G 1/2	G 1/2	G 3/8	G 1/4	G 3/8	63	74	80.5	42.5	M5	20	8	
G 3/8	G 3/8	G 1/2	G 3/8	G 1/4	G 3/8	63	74	80.5	42.5	M5	20	8	

Preparation of compressed air → Maintenance units and components

★ Series AS3  
Accessories

★ Reservoir, Series AS3-CLS/ -CLP/ -CLC  
for filters, pre-filters and microfilters



Version

Ambient temperature min./max.

Medium temperature min./max.

Working pressure min./max.

Medium

Filter reservoir volume

Reservoir

-10 °C / +50 °C

-10 °C / +50 °C

16 bar

Compressed air

49 cm³

Materials:

Seal

Acrylonitrile Butadiene Rubber

Condensate drain	Reservoir	Protective guard	Weight	Note	Part No.
			[kg]		
semi-automatic, open without pressure	Polycarbonate	Polyamide	0.086	Fig. 1	R412007338
fully automatic, open without pressure	Polycarbonate	Polyamide	0.116	Fig. 2	R412007339
fully automatic, closed without pressure	Polycarbonate	Polyamide	0.116	Fig. 2	R412007340
semi-automatic, open without pressure	Die cast zinc	-	0.338	Fig. 1; 1)	R412007344
fully automatic, open without pressure	Die cast zinc	-	0.39	Fig. 2; 1)	R412007345
fully automatic, closed without pressure	Die cast zinc	-	0.39	Fig. 2; 1)	R412007346

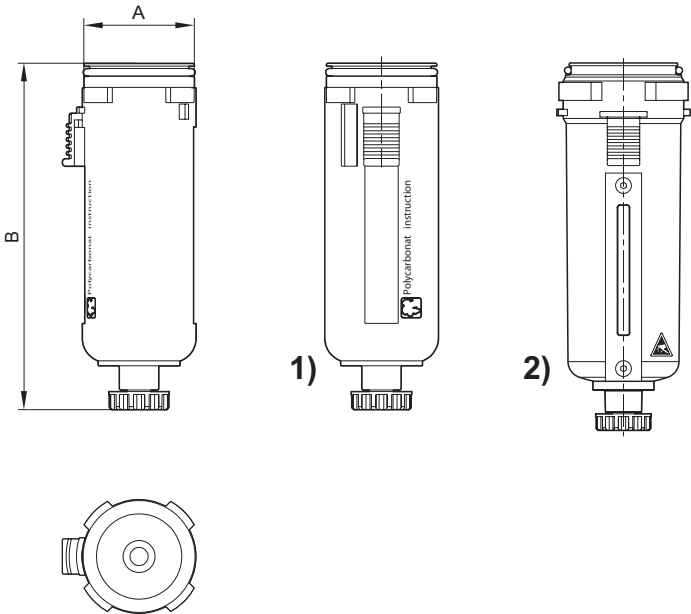
1) With window



Preparation of compressed air → Maintenance units and components

★ Series AS3  
Accessories

Fig. 1



00121208

- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass

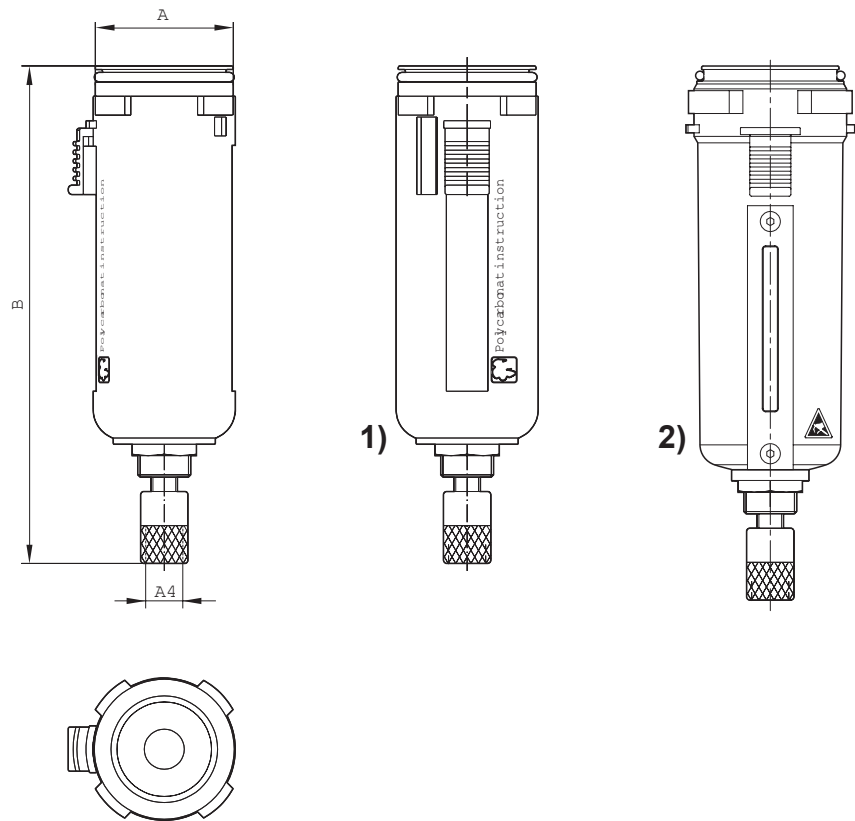
Part No.		A	B								
R412007338	G 3/8-G 1/2	43.8	128.5								
R412007344	G 3/8-G 1/2	43.8	128.5								

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Preparation of compressed air → Maintenance units and components

★ Series AS3  
Accessories

Fig. 2



00121207

- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass

Part No.	A4	A	B									
R412007339	G 1/8	43.8	145									
R412007340	G 1/8	43.8	145									
R412007345	G 1/8	43.8	145									
R412007346	G 1/8	43.8	145									

Preparation of compressed air → Maintenance units and components

★ Series AS3  
Accessories

★ Reservoir, Series AS3-CLA  
for active carbon filter



00127790

Version  
Ambient temperature min./max.  
Medium temperature min./max.  
Working pressure min./max.  
Medium  
Filter reservoir volume

Reservoir  
-10 °C / +50 °C  
-10 °C / +50 °C  
0 bar - 16 bar  
Compressed air  
49 cm³

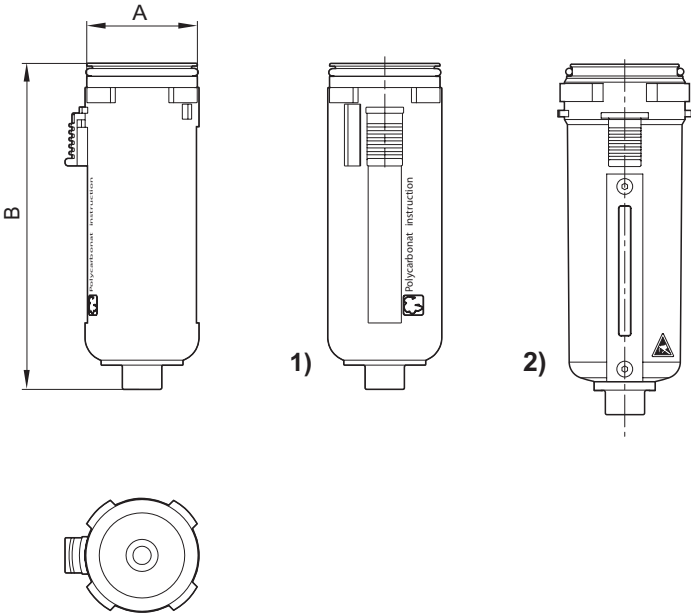
Materials:  
Seal

Acrylonitrile Butadiene Rubber

Reservoir	Protective guard	Weight	Note	Part No.
		[kg]		
Polycarbonate	Polyamide	0.086	-	R412007347
Die cast zinc	-	0.338	1)	R412007349

1) With window

Dimensions



00121209

- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass

Part No.	A	B										
R412007347	43.8	122										
R412007349	43.8	122										

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● Service products - existing standard program, worldwide service  
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Preparation of compressed air → Maintenance units and components

★ Series AS3
Accessories

★ Reservoir, Series AS3-CBS
for lubricator

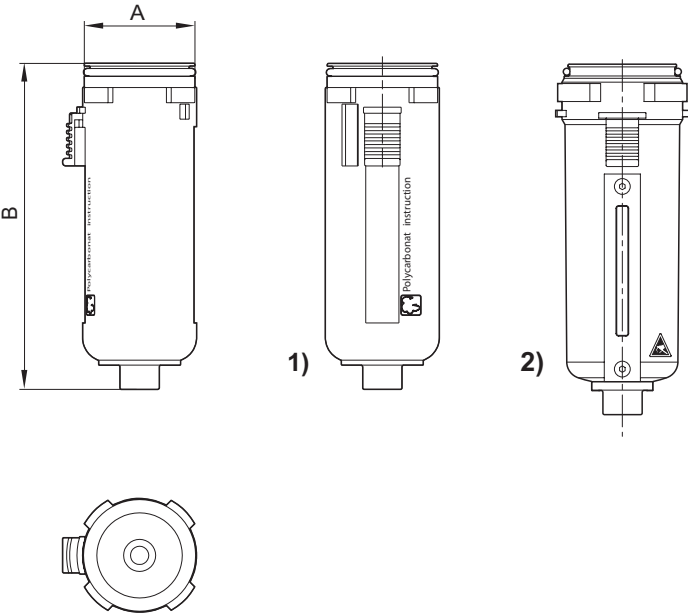


Version	Reservoir
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Working pressure min./max.	0 bar - 16 bar
Medium	Compressed air
	Oil
Lubricator reservoir volume	80 cm³
Materials:	
Seal	Acrylonitrile Butadiene Rubber

Reservoir	Protective guard	Weight	Note	Part No.
		[kg]		
Polycarbonate	Polyamide	0.086	-	R412007352
Die cast zinc	-	0.335	1)	R412007358

1) With window

Dimensions



- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass

Part No.	A	B										
R412007352	43.8	122										
R412007358	43.8	122										

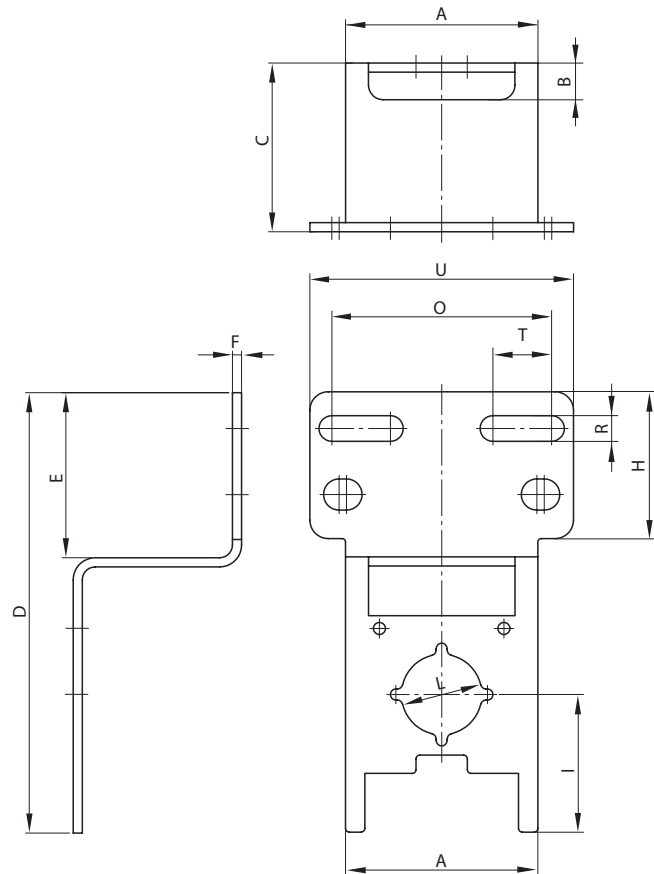
★ Core products - preferably for new constructions, worldwide service  
● Service products - existing standard program, worldwide service  
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## Preparation of compressed air → Maintenance units and components

★ **Series AS3**  
Accessories

★ **Mounting plate, Series AS3-MBR-...-W01**

00124431



00124430

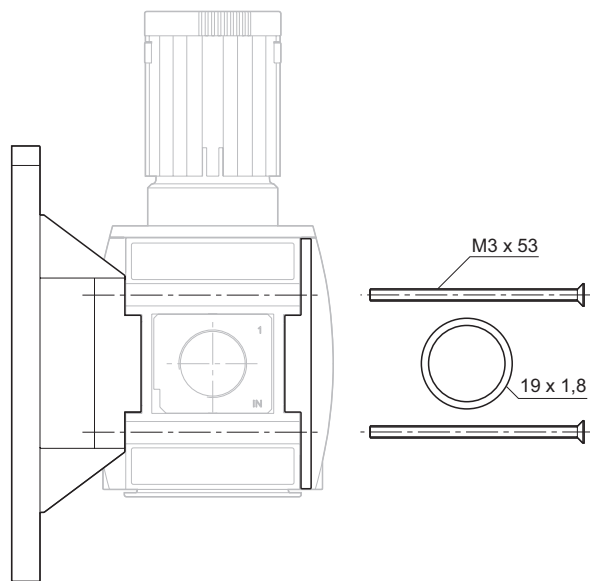
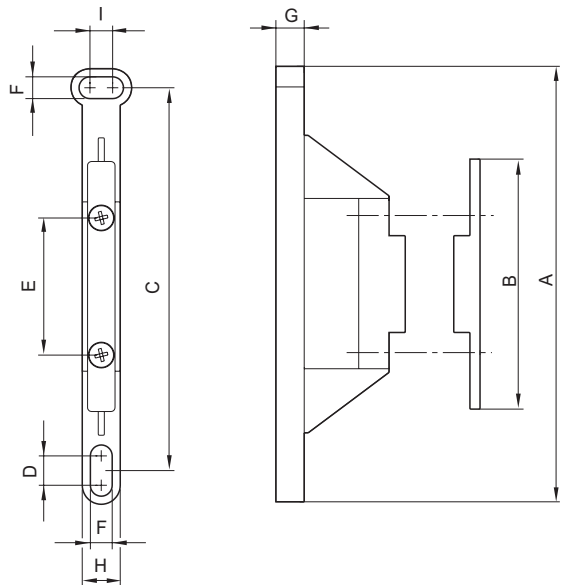
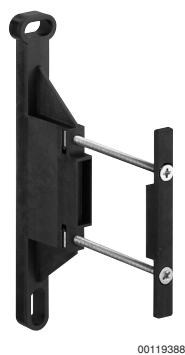
Part No.	A	B	C	D	E	F	H	I	O	R	T	U
R412007368	52.5	10	46	120	45	2.5	40	37.5	60	7	16	72
Part No.	Material	Weight [kg]										
R412007368	Steel	0.13										

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

Preparation of compressed air → Maintenance units and components

★ Series AS3  
Accessories

★ Mounting clip, Series AS3-MBR-...-W03



Part No.	A	B	C	D	E	F	G	H	I	Material	Weight [kg]
R412007370	120	75	104	8	42	6.4	12	12	8	Polyamide	0.055

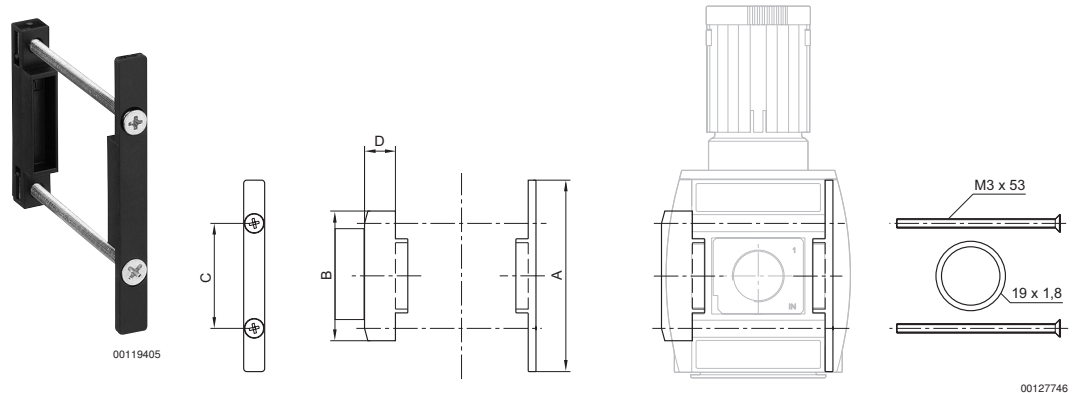
Scope of delivery incl. 2 mounting screws, 1 x O-ring

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● Service products - existing standard program, worldwide service  
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## Preparation of compressed air → Maintenance units and components

★ **Series AS3**  
Accessories

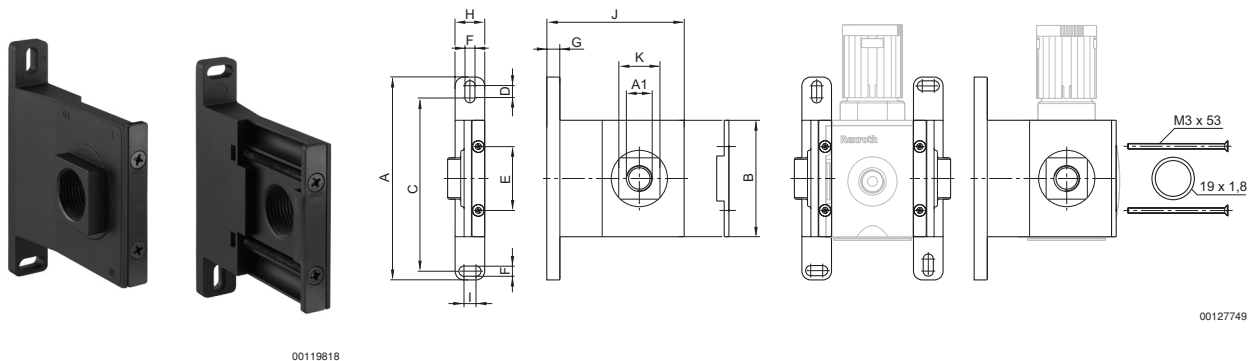
★ **Block assembly kit, Series AS3-MBR-...-W04**



Part No.	A	B	C	D	Material	Weight [kg]					
R412007371	75	75	42	12.5	Polyamide	0.032					

Scope of delivery incl. 2 mounting screws, 1 x O-ring

★ **Block assembly kit, Series AS3-MBR-...-W05**



Part No.	A1	A	B	C	D	E	F	G	H	I	J	K	Material
R412007366	G 3/8	120	75	104	8	42	6.4	7	20	8	102.5	30	Die cast zinc
R412007367	G 1/2	120	75	104	8	42	6.4	7	20	8	102.5	30	Die cast zinc

Part No.	Weight [kg]												
R412007366	0.825												
R412007367	0.825												

Scope of delivery incl. 4 mounting screws, 2 O-rings

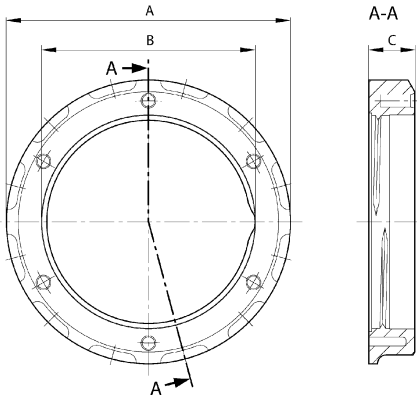
Preparation of compressed air → Maintenance units and components

★ Series AS3  
Accessories

★ Panel nut, Series AS3-MBR-...-W06



00124065



00123311

Part No.	A	B	C	Material							
R412007372	M42x1,5	55.5	8	Polyamide							

★ Pressure gauges, Series PG1 - SAS  
Front port; Scale color: White / Grey; Viewing window: Polystyrene; ATEX certified



00123444


ATEX	II 2G2D T4 X
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
Background color	Black
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

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● Service products - existing standard program, worldwide service  
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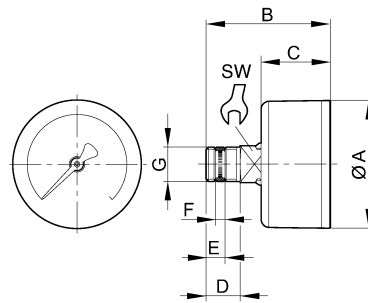


## Preparation of compressed air → Maintenance units and components

★ **Series AS3**  
Accessories

	Compressed air connection	Nominal diameter	Application	Display range	Scale value	Weight	Part No.
		[mm]	[bar]	[bar]		[kg]	
	G 1/4	50	0 - 1.2	0 - 1.6	0.05	0.09	R412004413
			0 - 2	0 - 2.5	0.1		R412004414
			0 - 3.2	0 - 4	0.1		R412004415
			0 - 4	0 - 6	0.2		R412004416
			0 - 8	0 - 10	0.2		R412004417
			0 - 12	0 - 16	0.5		R412004418

## Dimensions



00119457

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

1) Gasket thread

Preparation of compressed air → Maintenance units and components

★ Series AS3
Accessories

★ Pressure gauges, Series PG1-SAS-ADJ
Front port; with adjustable work area display; Scale color: White / Grey; Viewing window: Polystyrene; ATEX certified

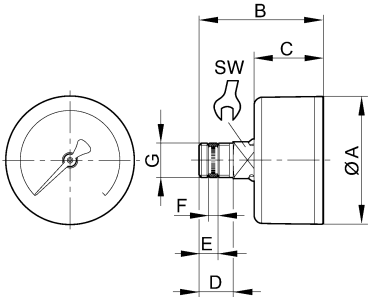


00122793

ATEX	II 2G2D T4 X
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
Background color	Black
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	Application	Display range	Operating pressure	Scale value	Weight	Part No.
		[mm]	[bar]	[bar]	[bar]		[kg]	
	G 1/4	50	0 - 1.2	0 - 1.6	0 / 1.6	0.05	0.1	R412007867
			0 - 2	0 - 2.5	0 / 2.5	0.1		R412007868
			0 - 3.2	0 - 4	0 / 4	0.1		R412007869
			0 - 4	0 - 6	0 / 6	0.2		R412007870
			0 - 8	0 - 10	0 / 10	0.2		R412007871
			0 - 12	0 - 16	0 / 16	0.5		R412007872

Dimensions



00119457

## Preparation of compressed air → Maintenance units and components

### ★ Series AS3

#### Accessories

Com-pressed air con-nection G	Nominal diameter	Ø A	B	C	D	E	F 1)	SW				
G 1/4	50	49	47.5	26.5	13	7.2	3.7	14				

1) Gasket thread

### ★ Pressure gauges, Series PG1 - DIM

flange version; Scale color: Black; Viewing window: Polystyrene; ATEX certified



00106963

ATEX  
Version  
Main scale unit (outside)  
Ambient temperature min./max.  
Medium  
Background color  
Pointer color  
Main scale color (outside)  
Color for differential pressure range

II 2G2D T4 X  
Diaphragm pressure gauge  
bar  
-10 °C / +50 °C  
Compressed air  
White  
Black  
Black  
Green / Red

Materials:  
Housing  
Viewing window  
Seal

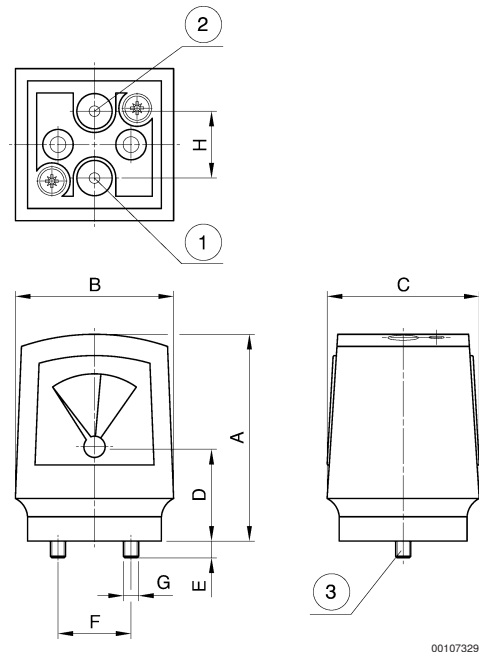
Polyamide, fibre-glass reinforced  
Polystyrene  
Acrylonitrile butadiene styrene

	Application	Display range	Operating pressure	Scale value	Weight	Part No.
	[bar]	[bar]	[bar]		[kg]	
	0 - 0.5	0 - 0.5	0 / 16	0.1	0.104	1827231072

Preparation of compressed air → Maintenance units and components

★ Series AS3  
Accessories

Dimensions



00107329

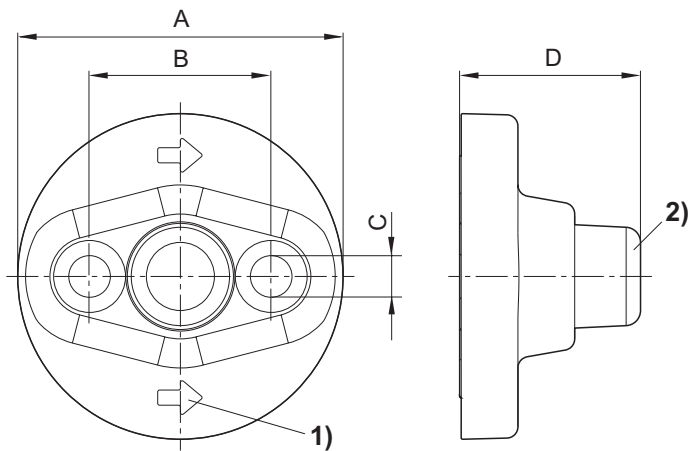
- 1) Input pressure p1
- 2) Output pressure p2
- 3) Mounting screw and 2 O-rings included in scope of delivery

A	B	C	E	F	G	H								
68	52	50	5.5	24	M5	22								

★ contamination display, Series AS2, AS3, AS5  
for prefilters and microfilters



00124003



00123310

- 1) Flow direction
- 2) Display in initial state: green (=  $\Delta p < 0.35$  bar)  
Display turns red on contamination of the filter element (=  $\Delta p \geq 0.35$  bar).

## Preparation of compressed air → Maintenance units and components

### ★ Series AS3

#### Accessories

Part No.	A	B	C	D	Material	Weight [kg]					
R412006363	43	24	5.5	24	Polyamide	0.025					

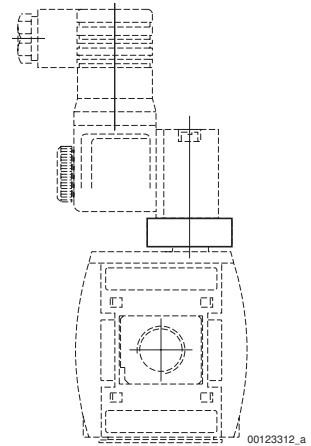
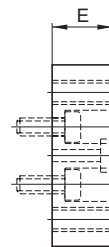
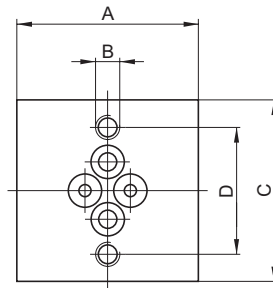
2 mounting screws and 2 O-rings supplied loose

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

#### with CNOMO porting configuration



00124240



00123312\_a

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

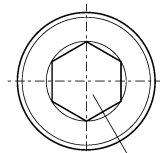
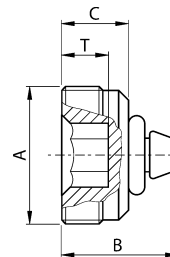
Scope of delivery incl. 4 mounting screws, 2 O-rings

Adapter plate for assembling a series DO30 pilot valve with CNOMO porting configuration on a 3/2-way shut-off valve without pilot

### ● plugs



00127753



00116300

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


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**★ Series AS3**
**Accessories**

Part No.	A	B	C	SW	T	Material	Material Seal	Delivery quantity [pcs]	
1820508006	G 1/4	13	8.5	6	6.5	Polyamide	Acrylonitrile Butadiene Rubber	10	

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further contacts:  
[www.boschrexroth.com/addresses](http://www.boschrexroth.com/addresses)

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