AVENTICS

Preparation of compressed air ► Maintenance units and components

Series AS3

Rexroth
Pneumatics

Brochure

Preparation of compressed air ► Maintenance units and components
Series AS3

Maintenance units

Maintenance unit, 2-part, Series AS3-ACD
► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

9

Maintenance unit, 3-part, Series AS3-ACT
► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

12

Pressure regulators, air supply on the left

Pressure regulator, Series AS3-RGS
► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX

15

Pressure regulator, Series AS3-RGS-...-E11
► G 1/2 ► Qn= 5200 l/min ► Activation: mechanical ► lockable ► with E11 locking

18

Pressure regulator, Series AS3-RGS-...-DS
► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► with continuous pressure supply ► lockable ► for padlocks ► suitable for ATEX

20

Precision pressure regulator, Series AS3-RGP
► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX

23

Precision pressure regulator, Series AS3-RGP-...-E11
► G 1/2 ► Qn= 5000 l/min ► Activation: mechanical ► lockable ► with E11 locking

26

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 ► for padlocks ► suitable for ATEX

28

Pressure regulator, Series AS3-RGS
► G 3/8 - G 1/2 ► Qn= 6500 l/min ► Activation: pneumatically

31

Series AS3

Filter pressure regulators, air supply on the left

Filter, air supply on the left

Preparation of compressed air ► Maintenance units and components
Series AS3

Series AS3

Filling valves, air supply on the left

Filling valve, pneumatically operated, Series AS3-SSV
► G 3/8 - G 1/2 ► suitable for ATEX

98

Filling valve, pneumatically operated, Series AS3-SSV
► adjustable filling time and change-over pressure ► G 3/8 - G 1/2 ► suitable for ATEX

100

Filling valve, pneumatically operated, Series AS3-SSV
► Poppet valve with elect. priority circuit, Electr. connection: M12x1 electrical connector
► G 1/2 - G 3/8 ► pipe connection

103

Shut-off valves, air supply on the left

2/2-directional valve, electrically operated, Series AS3-SOV
► G 3/8 - G 1/2 ► pipe connection

106

3/2-directional valve, electrically operated, Series AS3-SOV
► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

109

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS
► With integrated sensor ST6 ► G 3/8 - G 1/2 ► pipe connection

115

3/2-directional valve, pneumatically operated, Series AS3-SOV
► G 3/8 - G 1/2 ► pipe connection ► suitable for ATEX

120

3/2-shut-off valve, mechanically operated, Series AS3-BAV
► G 3/8 - G 1/2

123

Distributors, air supply on the left

Distributor, Series AS3-DIS
► G 3/8 - G 1/2 ► Distributor 4x ► suitable for ATEX

125

Preparation of compressed air ► Maintenance units and components
Series AS3

Distributor, Series AS3-DIN
► G 3/8 - G 1/2 ► Distributor 4x ► Non-return valve ► suitable for ATEX

127

Distributor, Series AS3-DIC
► G 1/2 ► Distributor 4x ► Center infeed ► suitable for ATEX

129

Accessories

Reservoir, Series AS3-CLS/ -CLP/ -CLC
► for filters, pre-filters and microfilters ► Material: Polycarbonate, Die cast zinc ► with window

131

Reservoir, Series AS3-CLA
► for active carbon filter ► Material: Polycarbonate, Die cast zinc ► with window

133

Reservoir, Series AS3-CBS
► for lubricator ► Material: Polycarbonate, Die cast zinc ► with window

134

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

135

Mounting bracket, Series AS3-MBR-...-W02

136

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

137

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

138

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

138

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Series AS3

Block assembly kit, Series AS3-MBR-...-W05
► G 3/8 - G 1/2

139

Block assembly kit, Series AS3/AS5-MBR-...-W07

140

Panel nut, Series AS3-MBR-...-W06

141

Pressure gauge, Series PG1-SAS
► Front port ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi ► suitable for ATEX

141

Pressure gauge, Series PG1-SAS-ADJ
► Front port ► with adjustable work area display ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi ► suitable for ATEX

143

Pressure gauge, Series PG1-DIM
► for differential pressure measurement for prefilters and microfilters ► flange version ► Background color: White ► Scale color: Black ► Viewing window: Polystyrene ► Units: bar

144

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

145

plugs

145

Transition plate, Series AS1, AS2, AS3, AS5
► with CNOMO porting configuration

146

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

146

	Sealing ring ► Acrylonitrile butadiene styrene	148
	mortise lock ► for Series AS2, AS3, AS5	149
	Key for E11 locking	150
	Mounting aid ► Assembly aid for permanent actuation of manual override (“press”) on pilot valve DO16 with electrical push-in fitting, form C.	150
	Mounting aid ► Assembly aid for permanent actuation of manual override (“press”) on pilot valve DO16 with electrical connection M12x1.	151
	Flow sensor, air supply on the left, Series AF1 ► Qn = 150 - 5000 l/min ► diaphragm principle ► Electrical connection: Plug, M12x1, 5-pin	152

Maintenance unit, 2-part, Series AS3-ACD

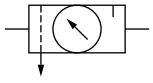
► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

00119382

Version	2-in-1, Can be assembled into blocks
Parts	Filter pressure regulator, Lubricator
Nominal flow Qn	3500 l/min
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 8 bar
Pressure supply	single
Filter reservoir volume	49 cm³
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	80 cm³
Type of filling	Manual oil filling Semi-automatic oil filling during operation
Oil type	HLP 68 (DIN 51 524 - ISO VG 68) HLP 32 (DIN 51 524 - ISO VG 32)
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
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
- Max. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

	Port	Working pressure min./max.	Condensate drain	Weight	Note	Part No.
		[bar]		[kg]		
	G 3/8	1.5 / 16	semi-automatic, open without pressure	1.018	1)	**R412007298**
	G 3/8	1.5 / 16	fully automatic, open without pressure	1.067	1)	**R412007299**
	G 3/8	0 / 16	fully automatic, closed without pressure	1.067	1)	R412007300
	G 3/8	1.5 / 16	semi-automatic, open without pressure	1.874	2)	R412007304
	G 3/8	1.5 / 16	fully automatic, open without pressure	1.917	2)	R412007305
	G 3/8	0 / 16	fully automatic, closed without pressure	1.908	2)	R412007306
	G 1/2	1.5 / 16	semi-automatic, open without pressure	1.018	1)	**R412007307**
	G 1/2	1.5 / 16	fully automatic, open without pressure	1.067	1)	**R412007308**
	G 1/2	0 / 16	fully automatic, closed without pressure	1.067	1)	**R412007309**
	G 1/2	1.5 / 16	semi-automatic, open without pressure	1.829	2)	R412007313
	G 1/2	1.6 / 16	fully automatic, open without pressure	1.874	2)	R412007314
	G 1/2	0 / 16	fully automatic, closed without pressure	1.749	2)	R412007315

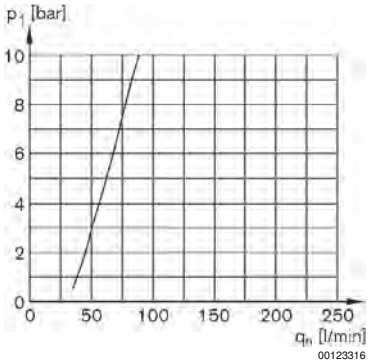
1) Reservoir: Polycarbonate
2) Reservoir: Die cast zinc
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Maintenance unit, 2-part, Series AS3-ACD

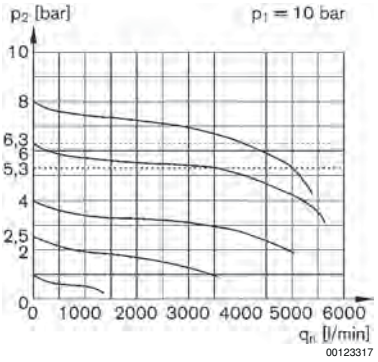
► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

Lubricator activation margin



p1 = working pressure
qn = nominal flow

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

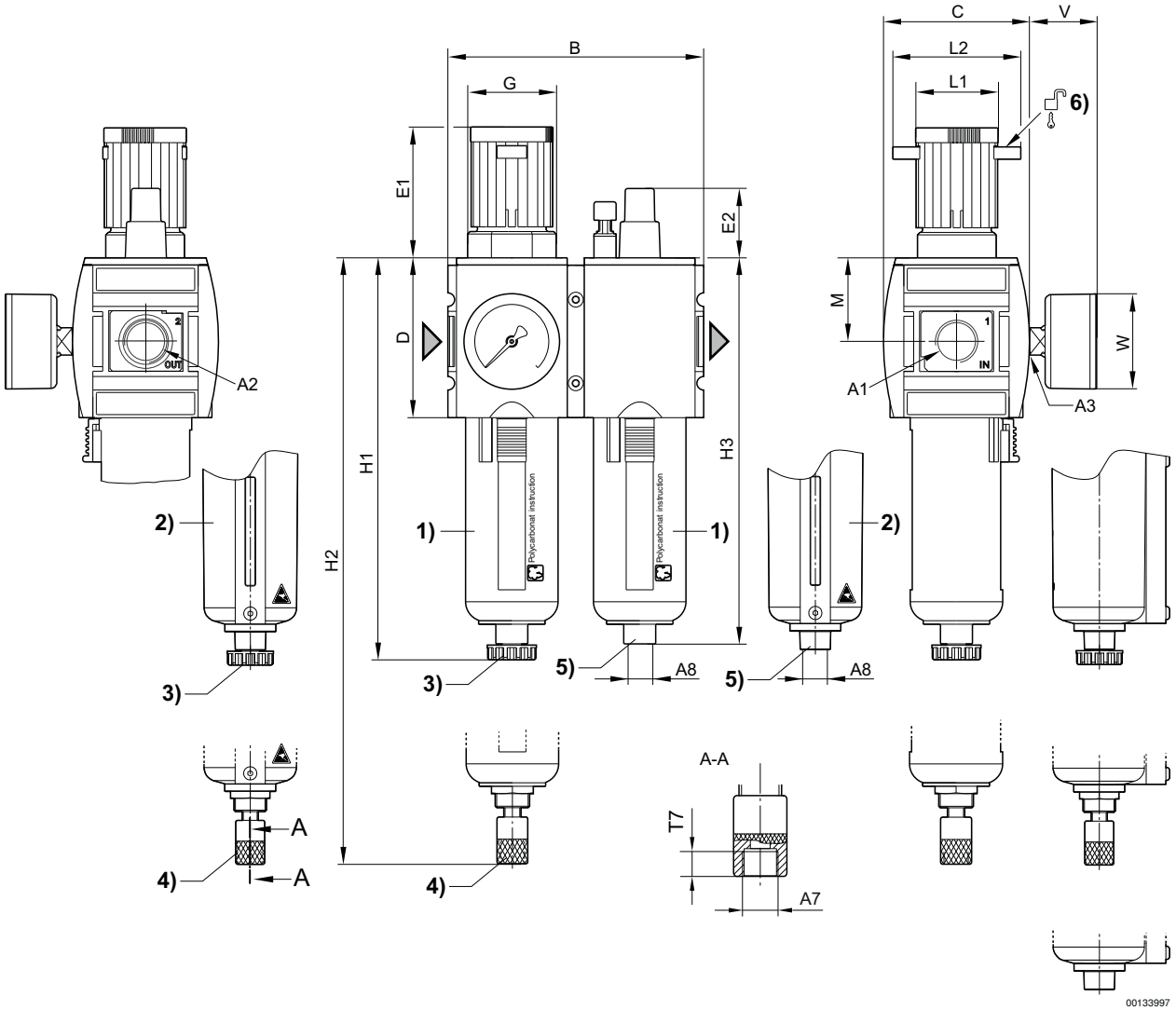


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Maintenance unit, 2-part, Series AS3-ACD

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain
5) Port for semi-automatic oil filling
6) Mounting option for padlocks; max. shackle Ø 8

A1	A2	A3	A7	A8	B	C	D	E1	E2	G	H1	H2
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
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

A1	H3	M	L1	L2	T7	V	W						
G 3/8	183	42.5	41	60	8.5	33	50						
G 1/2	183	42.5	41	60	8.5	33	50						

Maintenance unit, 3-part, Series AS3-ACT

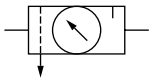
► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

00119436

Version	3-part, Can be assembled into blocks
Parts	Filter, Pressure controller, Lubricator
Nominal flow Qn	3500 l/min
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 8 bar
Pressure supply	single
Filter reservoir volume	49 cm³
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	80 cm³
Type of filling	Manual oil filling Semi-automatic oil filling during operation
Oil type	HLP 68 (DIN 51 524 - ISO VG 68) HLP 32 (DIN 51 524 - ISO VG 32)
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
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
- Max. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

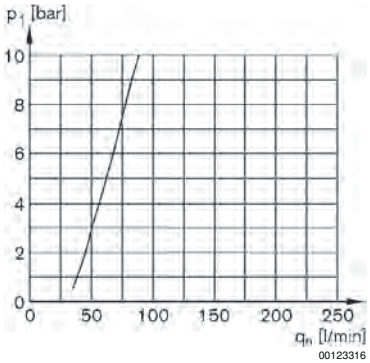
	Port	Working pressure min./max.	Condensate drain	Weight	Note	Part No.
		[bar]		[kg]		
	G 3/8	1.5 / 16	semi-automatic, open without pressure	1.353	1); 3)	**R412007318**
	G 3/8	1.5 / 16	fully automatic, open without pressure	1.402	1); 3)	R412007319
	G 3/8	0 / 16	fully automatic, closed without pressure	1.402	1); 3)	R412007320
	G 3/8	1.5 / 16	semi-automatic, open without pressure	2.414	2)	R412007324
	G 3/8	1.5 / 16	fully automatic, open without pressure	2.431	2)	R412007325
	G 3/8	0 / 16	fully automatic, closed without pressure	2.444	2)	R412007326
	G 1/2	1.5 / 16	semi-automatic, open without pressure	1.353	1); 3)	**R412007327**
	G 1/2	1.5 / 16	fully automatic, open without pressure	1.402	1); 3)	**R412007328**
	G 1/2	0 / 16	fully automatic, closed without pressure	1.402	1); 3)	**R412007329**
	G 1/2	1.5 / 16	semi-automatic, open without pressure	2.338	2)	R412007333
	G 1/2	1.5 / 16	fully automatic, open without pressure	2.37	2)	R412007334
	G 1/2	0 / 16	fully automatic, closed without pressure	2.391	2)	R412007335

1) Reservoir: Polycarbonate
2) Reservoir: Die cast zinc
3) Protective guard: Polyamide
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Maintenance unit, 3-part, Series AS3-ACT

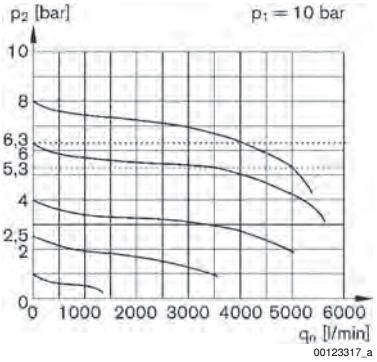
► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

Lubricator activation margin



p1 = working pressure
qn = nominal flow

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

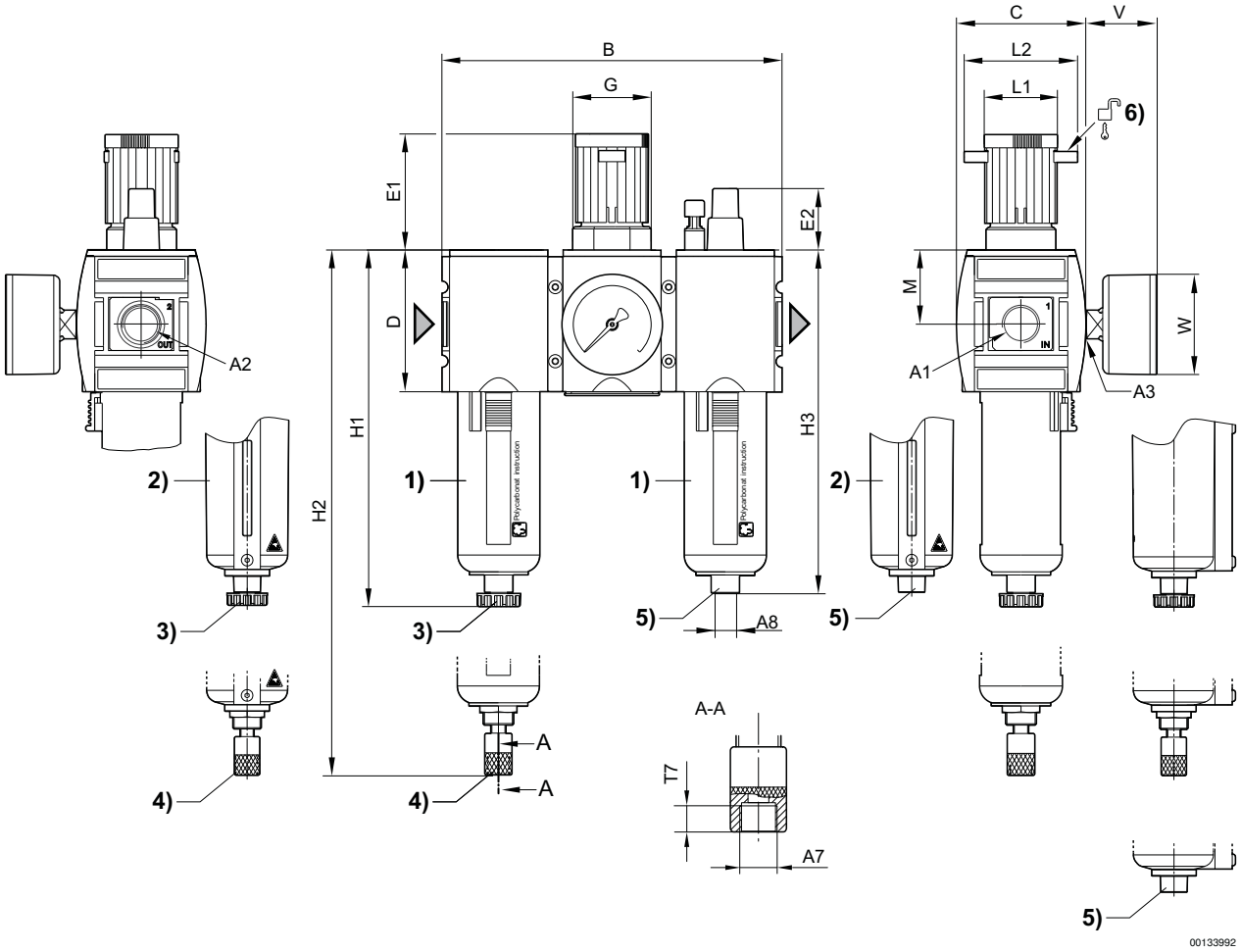


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Maintenance unit, 3-part, Series AS3-ACT

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain
5) Port for semi-automatic oil filling
6) Mounting option for padlocks; max. shackle Ø 8

A1	A2	A3	A7	A8	B	C	D	E1	E2	G	H1	H2
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
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

A1	H3	M	L1	L2	T7	V	W						
G 3/8	183	42.5	41	60	8.5	33	50						
G 1/2	183	42.5	41	60	8.5	33	50						

Pressure regulator, Series AS3-RGS

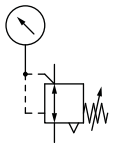
► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX

00119369

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

Technical Remarks

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

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Note	Part No.
			[l/min]	[bar]	[bar]	[kg]		
		G 3/8	1600	0.1 / 16	0.1 - 1	0.6	1)	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	2)	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**

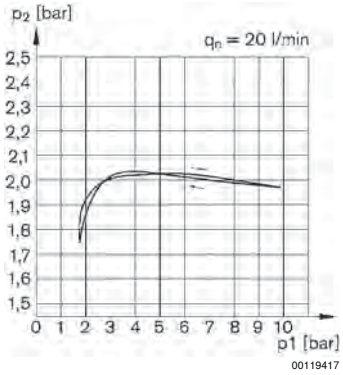
1) Pressure gauge enclosed separately
2) Order pressure gauge separately
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pressure regulator, Series AS3-RGS

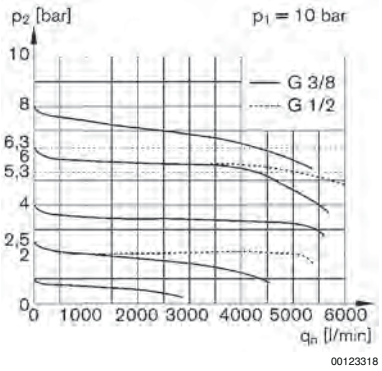
► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX

Pressure characteristics curve



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

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

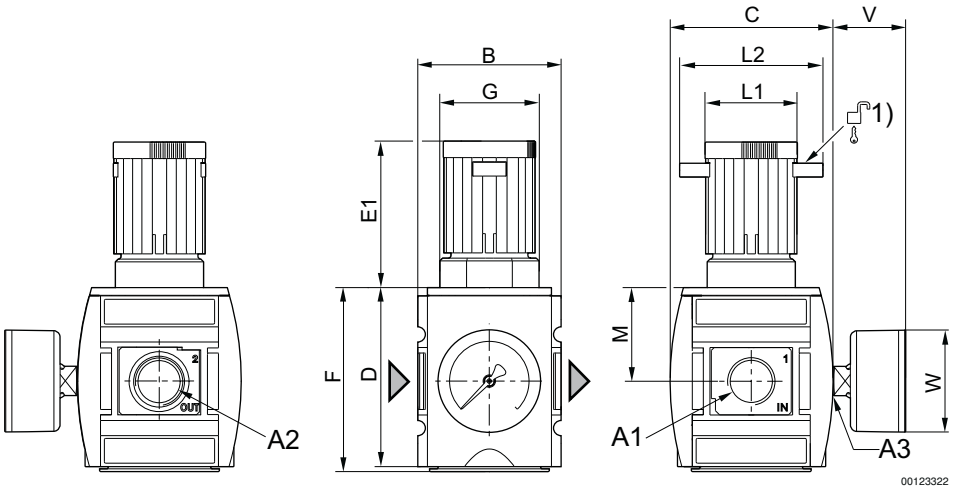


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series AS3-RGS

► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX

Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection
1) Mounting option for padlocks; max. shackle Ø 8

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

A1	W											
G 3/8	50											
G 1/2	50											

Pressure regulator, Series AS3-RGS-...-E11

► G 1/2 ► Qn= 5200 l/min ► Activation: mechanical ► lockable ► with E11 locking

00015815

Mounting orientation	Any
Working pressure min./max.	-- / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Pressure supply	single
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

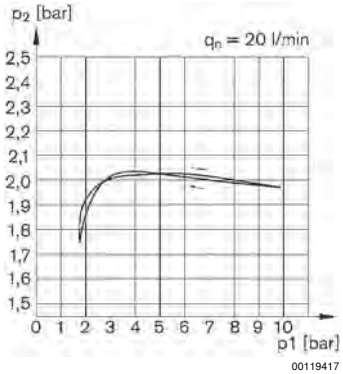
Technical Remarks

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

	Port	Qn	Adjustment range min. - max..	Weight	Part No.
		[l/min]	[bar]	[kg]	
	G 1/2	5200	0.5 - 10	0.528	**R412007099**

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

Pressure characteristics curve



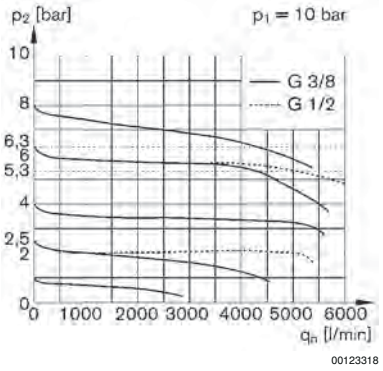
00119417

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

Pressure regulator, Series AS3-RGS-...-E11

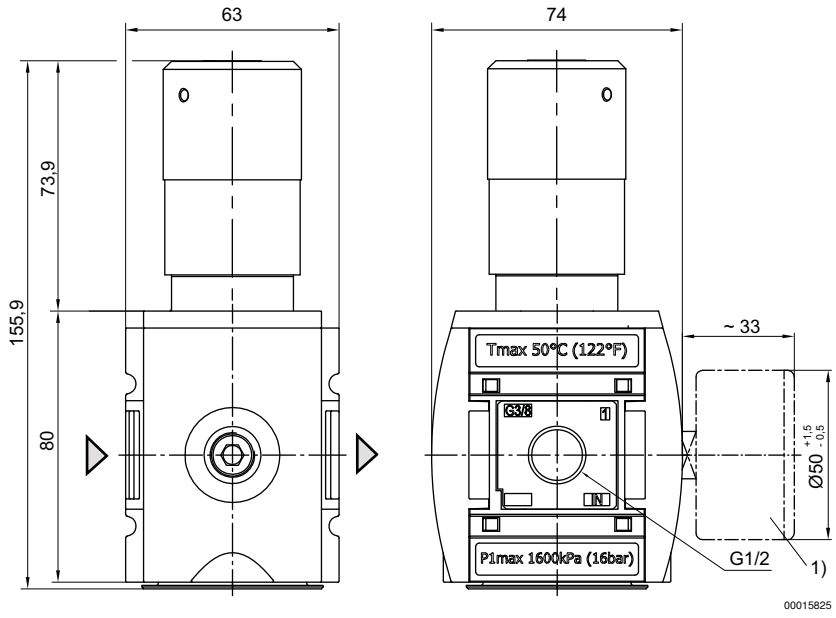
► G 1/2 ► Qn= 5200 l/min ► Activation: mechanical ► lockable ► with E11 locking

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



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

Dimensions



1) Order pressure gauge separately

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

► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► with continuous pressure supply ► lockable ► for padlocks ► suitable for ATEX

00119367

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

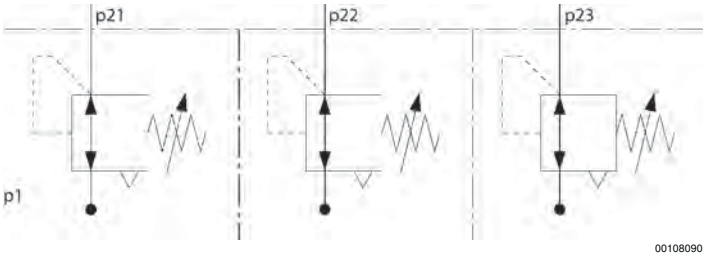
Technical Remarks

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

	Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Part No.
		[l/min]	[bar]	[bar]	[kg]	
	G 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**

Order pressure gauge separately
Max. pressure gauge Ø in blocked state: 50
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Application example



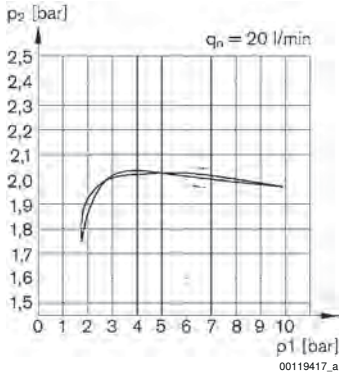
00108090

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

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

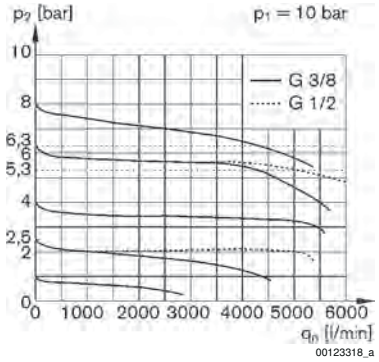
► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► with continuous pressure supply ► lockable ► for padlocks ► suitable for ATEX

Pressure characteristics curve



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

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

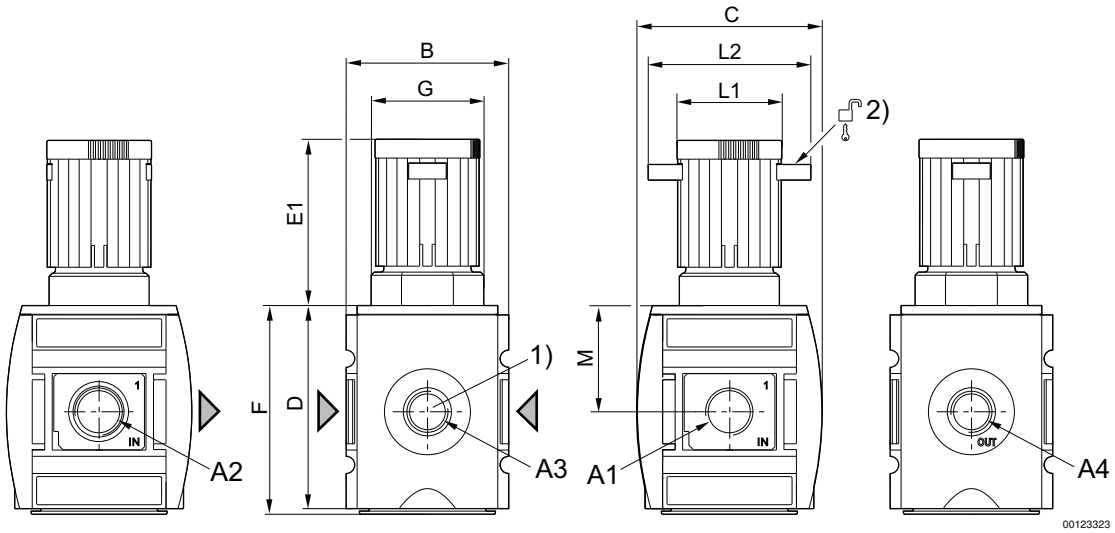


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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

► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► with continuous pressure supply ► lockable ► for padlocks ► suitable for ATEX

Dimensions



A1 = input
A2 = output
1) Pressure gauge connection
2) Mounting option for padlocks; max. shackle Ø 8

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

Precision pressure regulator, Series AS3-RGP

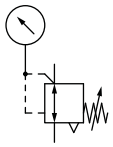
► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX

00119369

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Max. Internal air consumption	2.6 l/min
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

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

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Note	Part No.
			[l/min]	[bar]	[bar]	[kg]		
		G 3/8	1600	0.1 / 16	0.1 - 1	0.6	1)	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	2)	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

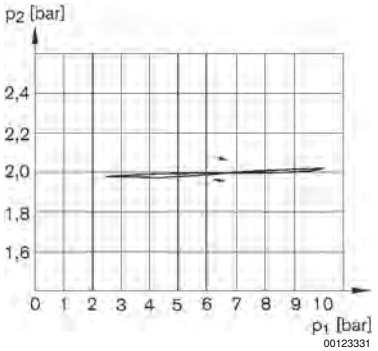
1) Pressure gauge enclosed separately
2) Order pressure gauge separately
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Precision pressure regulator, Series AS3-RGP

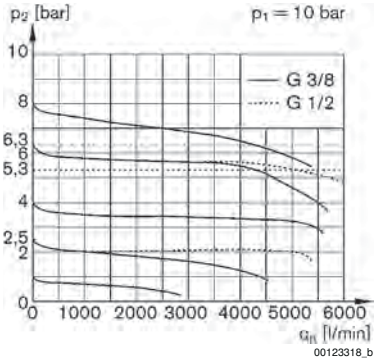
► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX

Pressure characteristics curve



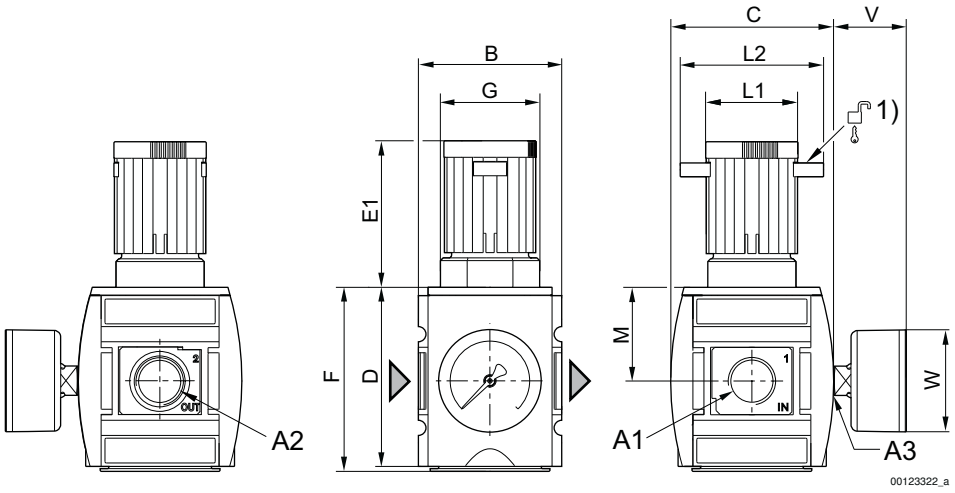
p1 = working pressure
p2 = secondary pressure

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



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

Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection
1) Mounting option for padlocks; max. shackle Ø 8

Precision pressure regulator, Series AS3-RGP

► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX

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

A1	W											
G 3/8	50											
G 1/2	50											

Precision pressure regulator, Series AS3-RGP-...-E11

► G 1/2 ► Qn= 5000 l/min ► Activation: mechanical ► lockable ► with E11 locking

00015815

Mounting orientation	Any
Working pressure min./max.	-- / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Pressure supply	single
Max. Internal air consumption	2.6 l/min
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

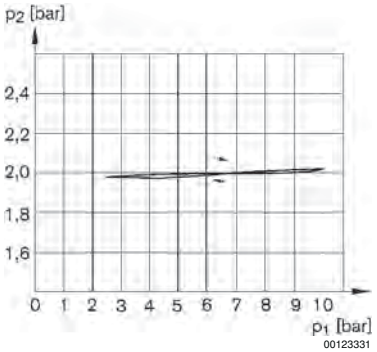
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filter: 5 μm
- The E11 locking is delivered without a key (see accessories for keys).

	Port	Qn	Adjustment range min. - max..	Weight	Part No.
		[l/min]	[bar]	[kg]	
	G 1/2	5000	0.2 - 4	0.528	R412007158

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

Pressure characteristics curve

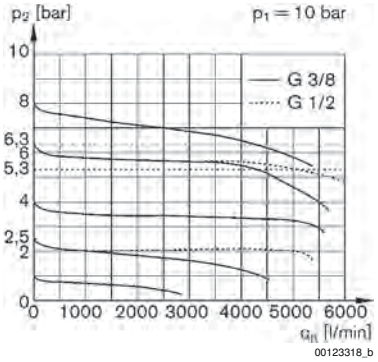


p1 = working pressure
p2 = secondary pressure

Precision pressure regulator, Series AS3-RGP-...-E11

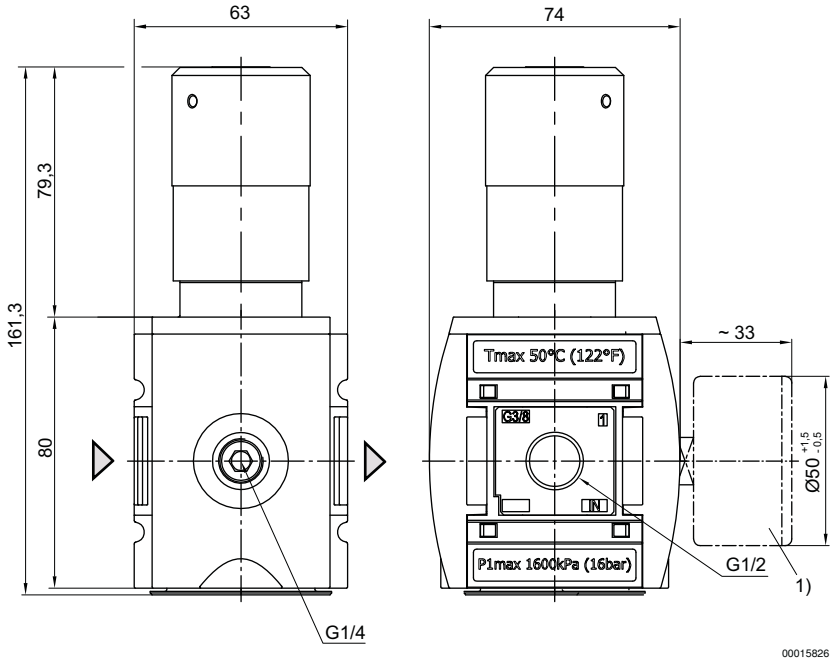
► G 1/2 ► Qn= 5000 l/min ► Activation: mechanical ► lockable ► with E11 locking

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



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

Dimensions



1) Order pressure gauge separately

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 ► for padlocks ► suitable for ATEX

00119367

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	double
Max. Internal air consumption	2.6 l/min
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

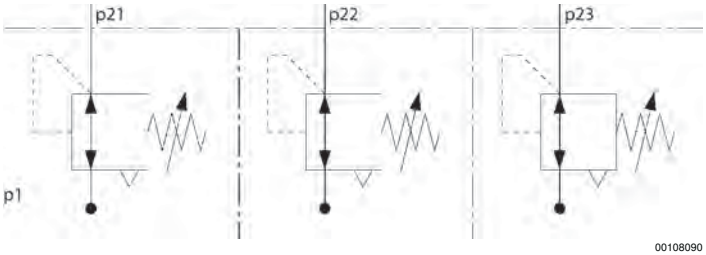
Technical Remarks

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

Order pressure gauge separately
Max. pressure gauge Ø in blocked state: 50
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Application example



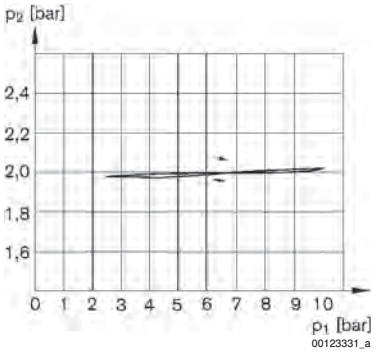
00108090

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

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

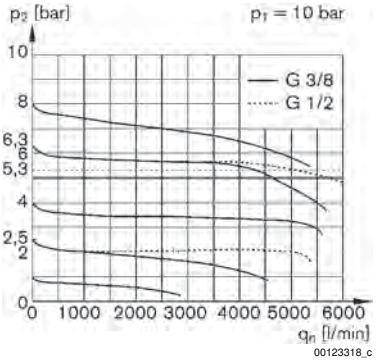
► G 3/8 - G 1/2 ► Qn= 1600 - 5200 l/min ► Activation: mechanical ► with continuous pressure supply ► lockable ► for padlocks ► suitable for ATEX

Pressure characteristics curve



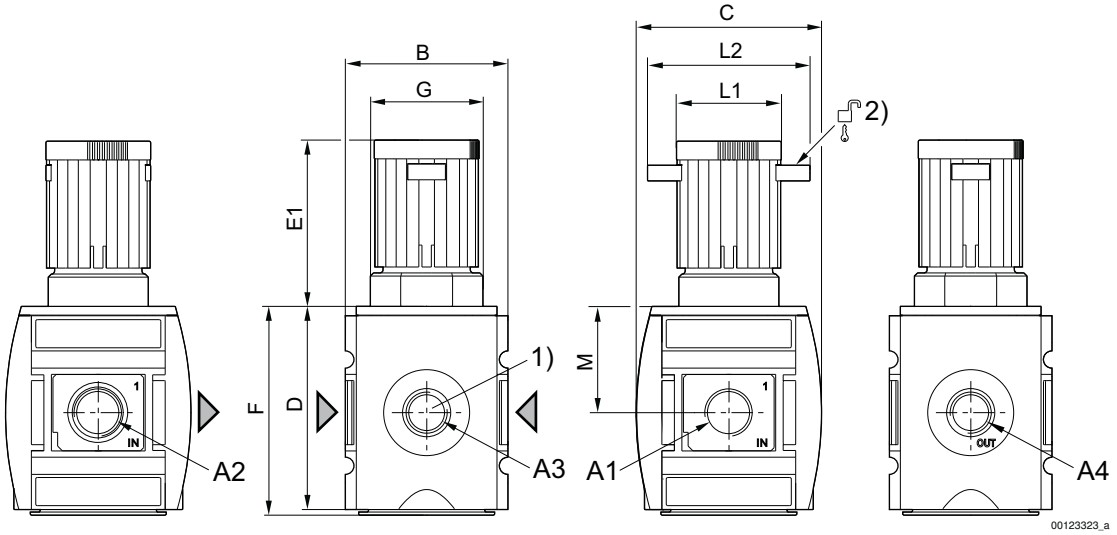
p1 = working pressure
p2 = secondary pressure

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



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

Dimensions



1) Pressure gauge connection
2) Mounting option for padlocks; max. shackle Ø 8

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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 ► for padlocks ► suitable for ATEX

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

Pressure regulator, Series AS3-RGS

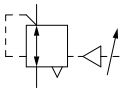
► G 3/8 - G 1/2 ► Qn= 6500 l/min ► Activation: pneumatically

23139

Mounting orientation	Any
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	+0 °C / +50 °C
Ambient temperature min./max.	+0 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Pressure supply	single
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

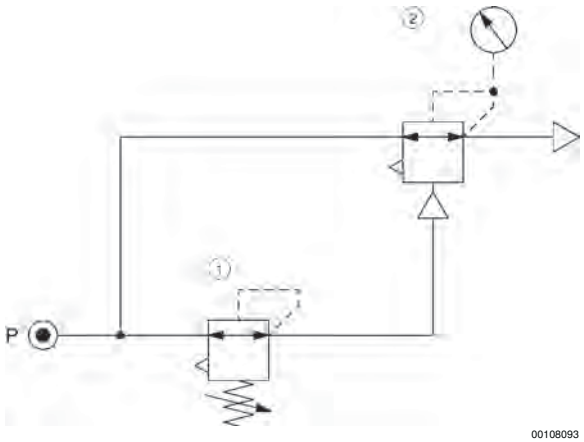
Technical Remarks

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

	Port	Qn	Adjustment range min. - max..	Weight	Part No.
		[l/min]	[bar]	[kg]	
	G 3/8 G 1/2	6500	0.5 - 16	0.579	R412007094 **R412007095**

Order pressure gauge separately
Control pressure: see diagram
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Application example



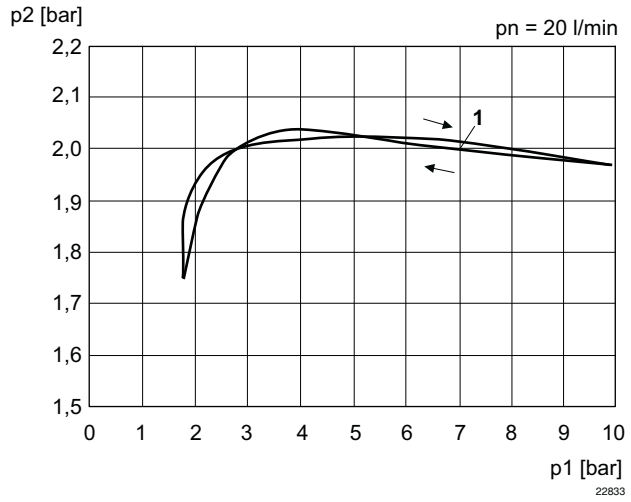
00108093

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

Pressure regulator, Series AS3-RGS

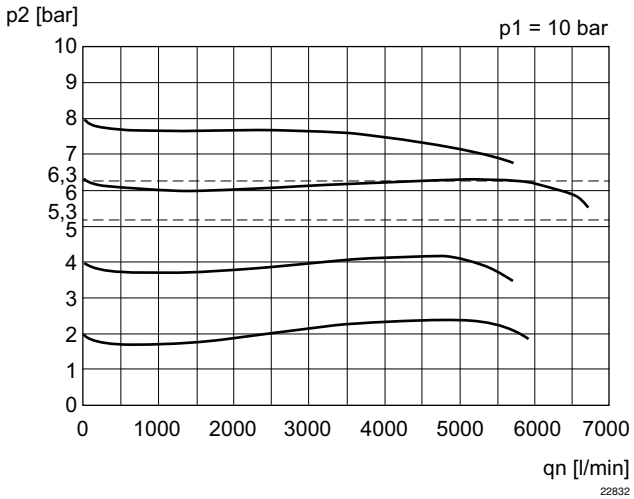
► G 3/8 - G 1/2 ► Qn= 6500 l/min ► Activation: pneumatically

Pressure characteristics curve



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

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

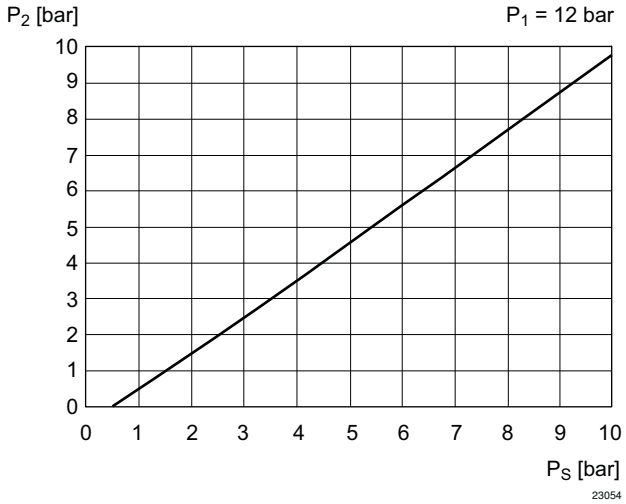


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series AS3-RGS

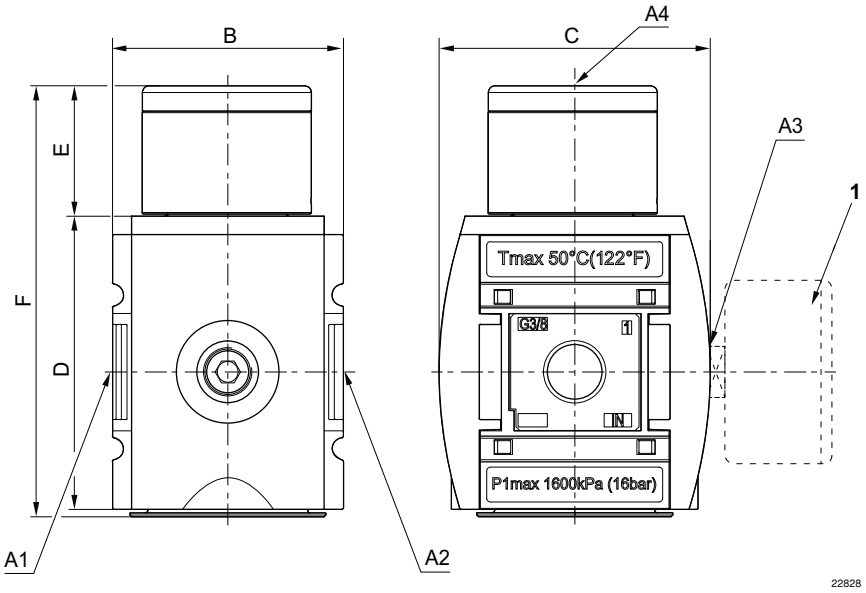
► G 3/8 - G 1/2 ► Qn= 6500 l/min ► Activation: pneumatically

control pressure characteristic



p1 = working pressure
p2 = secondary pressure
PS = control pressure

Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection
A4 = control pressure connection
1) Order pressure gauge separately

A1	A2	A3	A4	B	C	D	E	F					
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	39.25	121					

Pressure regulator, Series AS3-RGS

► G 3/8 - G 1/2 ► Qn= 6500 l/min ► Activation: pneumatically

A1	A2	A3	A4	B	C	D	E	F					
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	39.25	121					

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX

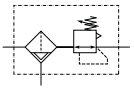
00119371

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Filter reservoir volume	49 cm³
Filter element	exchangeable
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	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. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX

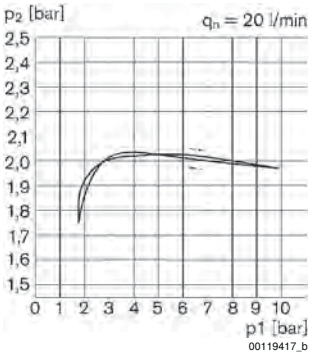
	Port	Qn	Working pressure min./max.	Adjustment range min./max.	Condensate drain	Weight	Note	Part No.
		[l/min]	[bar]	[bar]		[kg]		
	G 3/8	5100	1.5 / 16	0.5 / 8	semi-automatic, open without pressure	0.586	1); 3)	**R412007175**
	G 3/8		1.5 / 16	0.5 / 8	fully automatic, open without pressure	0.635	1); 3)	R412007176
	G 3/8		0 / 16	0.5 / 8	fully automatic, closed without pressure	0.635	1); 3)	R412007177
	G 3/8		1.5 / 16	0.5 / 8	fully automatic, closed without pressure	0.818	2)	R412007181
	G 3/8		1.5 / 16	0.5 / 8	fully automatic, open without pressure	0.87	2)	R412007182
	G 3/8		0 / 16	0.5 / 8	fully automatic, closed without pressure	0.87	2)	R412007183
	G 3/8		1.5 / 16	0.5 / 10	semi-automatic, open without pressure	0.818	1); 3)	**R412007193**
	G 3/8		1.5 / 16	0.5 / 10	fully automatic, open without pressure	0.87	1); 3)	R412007194
	G 3/8		0 / 16	0.5 / 10	fully automatic, closed without pressure	0.87	1); 3)	R412007195
	G 1/2		1.5 / 16	0.5 / 10	semi-automatic, open without pressure	0.586	1); 3)	**R412007196**
	G 1/2		1.5 / 16	0.5 / 10	fully automatic, open without pressure	0.635	1); 3)	**R412007197**
	G 1/2		0 / 16	0.5 / 10	fully automatic, closed without pressure	0.635	1); 3)	**R412007198**
	G 1/2		0 / 16	0.5 / 16	fully automatic, closed without pressure	0.635	1); 3)	R412007238
	G 1/2		1.5 / 16	0.5 / 16	semi-automatic, open without pressure	0.797	2)	R412007240
	G 1/2		1.5 / 16	0.5 / 16	fully automatic, open without pressure	0.85	2)	**R412007241**
	G 1/2		0 / 16	0.5 / 16	fully automatic, closed without pressure	0.85	2)	R412007242
	G 1/2		1.5 / 16	0.5 / 8	semi-automatic, open without pressure	0.586	1); 3)	**R412007184**
	G 1/2		1.5 / 16	0.5 / 8	fully automatic, open without pressure	0.635	1); 3)	**R412007185**
	G 1/2		0 / 16	0.5 / 8	fully automatic, closed without pressure	0.635	1); 3)	**R412007186**
	G 1/2		1.5 / 16	0.5 / 8	semi-automatic, open without pressure	0.797	2)	R412007190
	G 1/2		1.5 / 16	0.5 / 8	fully automatic, open without pressure	0.85	2)	**R412007191**
	G 1/2		0 / 16	0.5 / 8	fully automatic, closed without pressure	0.85	2)	R412007192

Order pressure gauge separately
1) Reservoir: Polycarbonate
2) Reservoir: Die cast zinc
3) Protective guard: Polyamide
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Filter pressure regulator, Series AS3-FRE

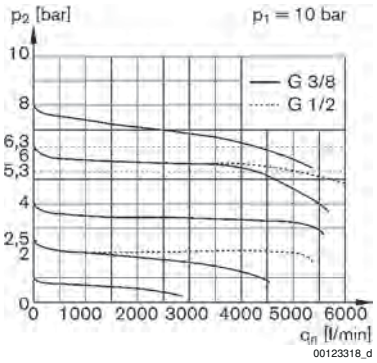
► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX

Pressure characteristics curve



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

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

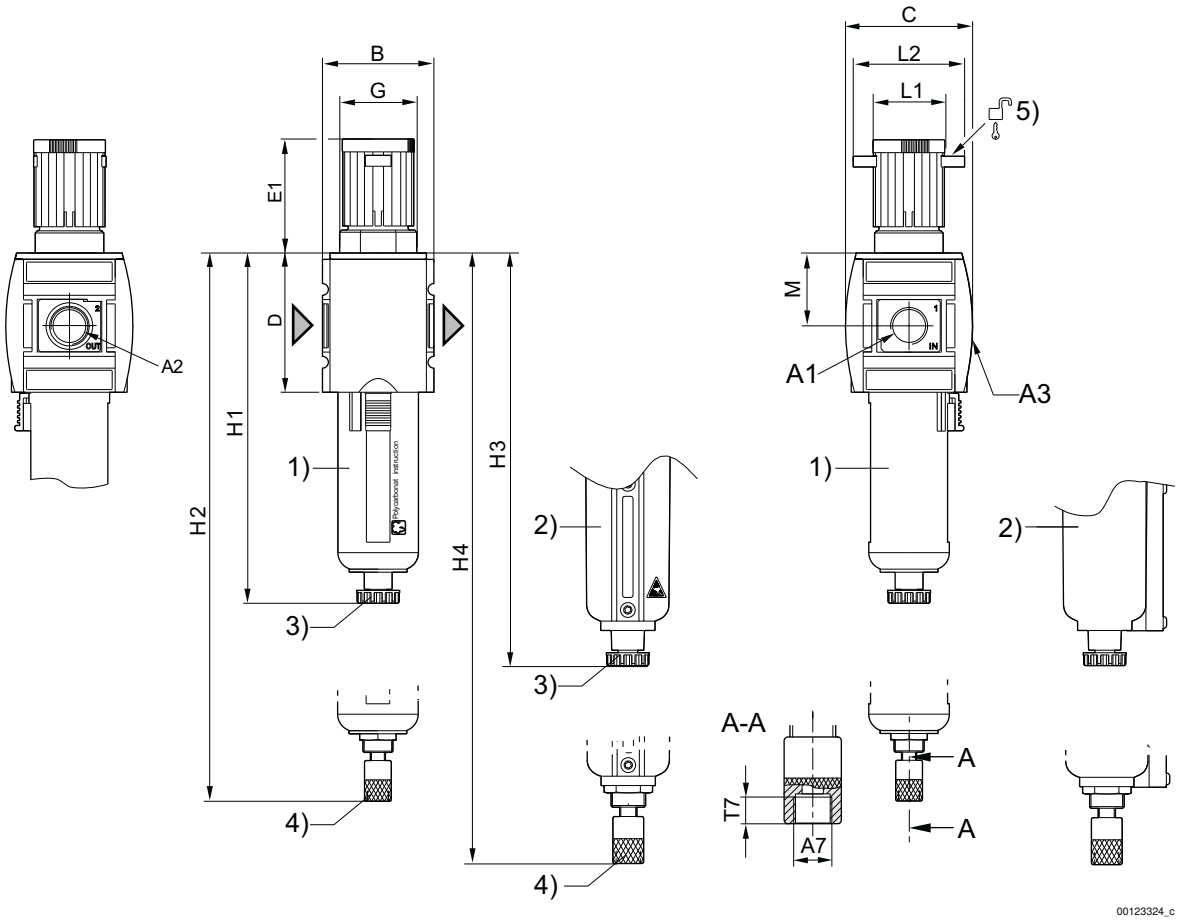


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX

Dimensions



1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
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 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5

A1	L1	L2	M									
G 3/8	41	60	42.5									
G 3/8	41	60	42.5									
G 3/8	41	60	42.5									
G 3/8	41	60	42.5									
G 1/2	41	60	42.5									
G 1/2	41	60	42.5									
G 1/2	41	60	42.5									

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX

A1	L1	L2	M										
G 1/2	41	60	42.5										

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

00119372

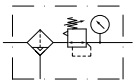
Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Filter reservoir volume	49 cm³
Filter element	exchangeable
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	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. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

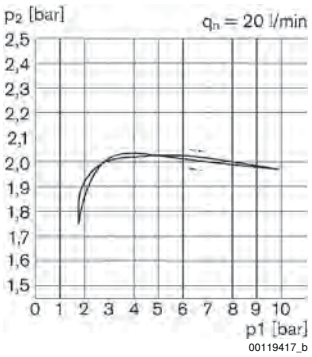
Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

	Port	Qn	Working pressure min./max.	Adjustment range min./max.	Condensate drain	Weight	Note	Part No.
		[l/min]	[bar]	[bar]		[kg]		
	G 3/8		1.5 / 16	0.5 / 8	semi-automatic, open without pressure	0.658	1); 3)	**R412007200**
	G 3/8		1.5 / 16	0.5 / 8	fully automatic, open without pressure	0.707	1); 3)	**R412007201**
	G 3/8		0 / 16	0.5 / 8	fully automatic, closed without pressure	0.707	1); 3)	**R412007202**
	G 3/8		1.5 / 16	0.5 / 8	semi-automatic, open without pressure	0.89	2)	R412007206
	G 3/8		1.5 / 16	0.5 / 8	fully automatic, open without pressure	0.943	2)	R412007207
	G 3/8		0 / 16	0.5 / 8	fully automatic, closed without pressure	0.943	2)	R412007208
	G 1/2	5100	1.5 / 16	0.5 / 16	fully automatic, open without pressure	0.658	1); 3)	**R412007237**
	G 1/2		1.5 / 16	0.5 / 8	semi-automatic, open without pressure	0.658	1); 3)	**R412007209**
	G 1/2		1.5 / 16	0.5 / 8	fully automatic, open without pressure	0.707	1); 3)	**R412007210**
	G 1/2		0 / 16	0.5 / 8	fully automatic, closed without pressure	0.707	1); 3)	**R412007211**
	G 1/2		1.5 / 16	0.5 / 8	semi-automatic, open without pressure	0.87	2)	**R412007215**
	G 1/2		1.5 / 16	0.5 / 8	fully automatic, open without pressure	0.922	2)	**R412007216**
	G 1/2		0 / 16	0.5 / 8	fully automatic, closed without pressure	0.922	2)	**R412007217**

1) Reservoir: Polycarbonate
2) Reservoir: Die cast zinc
3) Protective guard: Polyamide
Pressure gauge enclosed separately
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Pressure characteristics curve

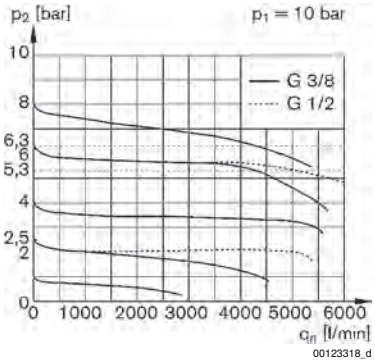


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

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

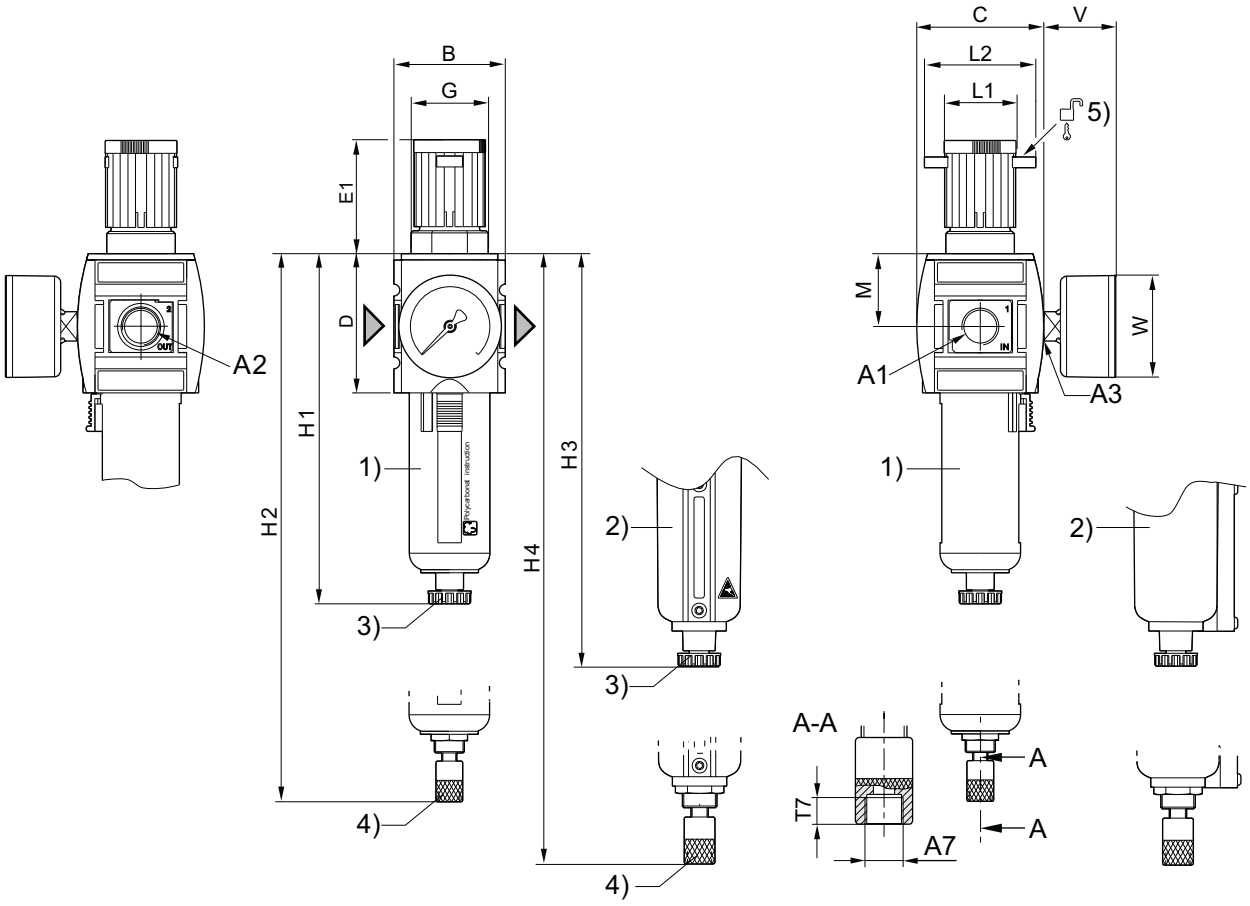


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
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 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5

A1	L1	L2	M	T7	V	W							
G 3/8	41	60	42.5	8.5	33	50							
G 3/8	41	60	42.5	8.5	33	50							
G 3/8	41	60	42.5	8.5	33	50							
G 3/8	41	60	42.5	8.5	33	50							

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

A1	L1	L2	M	T7	V	W							
G 1/2	41	60	42.5	8.5	33	50							
G 1/2	41	60	42.5	8.5	33	50							
G 1/2	41	60	42.5	8.5	33	50							
G 1/2	41	60	42.5	8.5	33	50							

Filter pressure regulator, Series AS3-FRE-...-E11

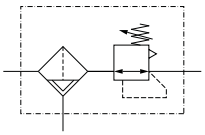
► G 1/2 ► filter porosity: 5 µm ► lockable ► with E11 locking

00015831

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Mounting orientation	vertical
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Filter reservoir volume	49 cm³
Filter element	exchangeable
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
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.
- The E11 locking is delivered without a key (see accessories for keys).
- Max. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

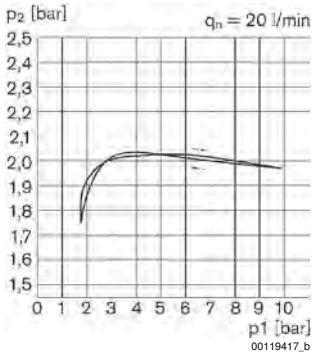
	Port	Qn	Condensate drain	Weight	Part No.
		[l/min]		[kg]	
	G 1/2	5100	fully automatic, closed without pressure	0.635	**R412007203**

Reservoir: Polycarbonate
Protective guard: Polyamide
Order pressure gauge separately
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Filter pressure regulator, Series AS3-FRE-...-E11

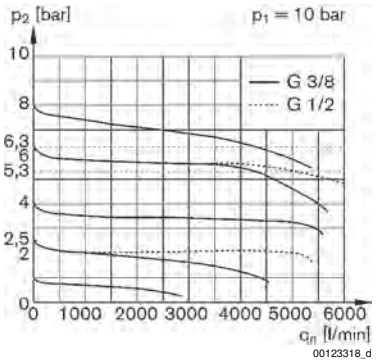
► G 1/2 ► filter porosity: 5 µm ► lockable ► with E11 locking

Pressure characteristics curve



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

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

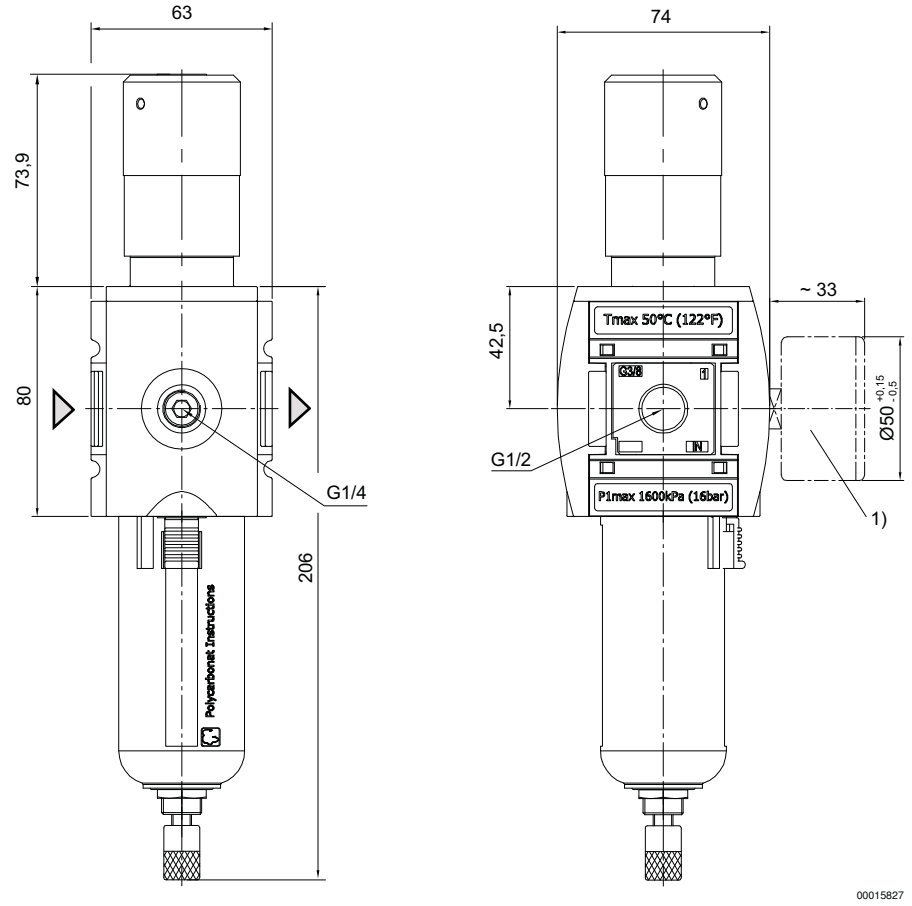


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Filter pressure regulator, Series AS3-FRE-...-E11

► G 1/2 ► filter porosity: 5 µm ► lockable ► with E11 locking

Dimensions



1) Order pressure gauge separately

Filter pressure regulator, Series AS3-FRE

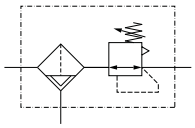
► G 1/2 ► filter porosity: 25 µm ► lockable ► for padlocks ► suitable for ATEX

00133866

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Mounting orientation	vertical
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Pressure supply	single
Filter reservoir volume	49 cm³
Filter element	exchangeable
Condensate drain	semi-automatic, open without pressure
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Die cast zinc
Filter insert	Polyethylene

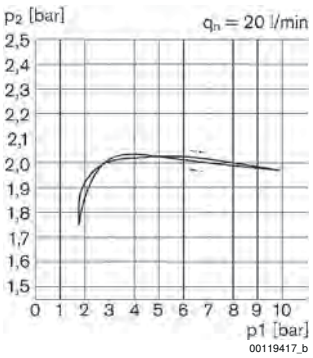
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Max. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

	Port	Qn	Working pressure min./max.	Adjustment range min./max.	Weight	Part No.
		[l/min]	[bar]	[bar]	[kg]	
	G 1/2	5100	1.5 / 16	0.5 / 8	0.797	**R412007189**

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

Pressure characteristics curve



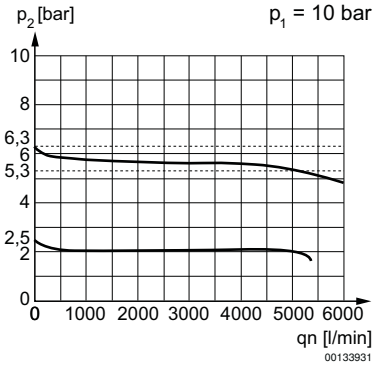
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Filter pressure regulator, Series AS3-FRE

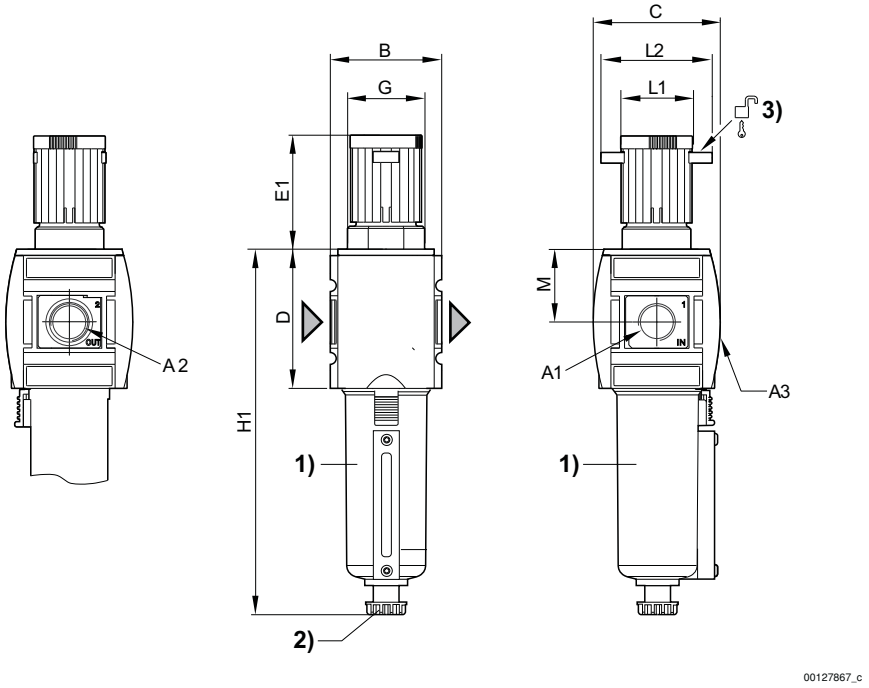
► G 1/2 ► filter porosity: 25 µm ► lockable ► for padlocks ► suitable for ATEX

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



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

Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection
1) Metal reservoir with level indicator
2) Semi-automatic condensate drain
3) Mounting option for padlocks; max. shackle Ø 8

A1	A2	A3	B	C	D	E1	G	H1	L1	L2	M	
G 1/2	G 1/2	G 1/4	63	74	80	63.5	M42x1,5	193.5	41	60	42.5	

Filter pressure regulator, Series AS3-FRE

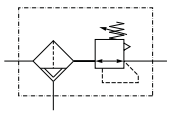
► G 3/8 - G 1/2 ► filter porosity: 40 µm ► lockable ► for padlocks ► suitable for ATEX

00119371

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Filter reservoir volume	49 cm³
Filter element	exchangeable
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
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.
- Max. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

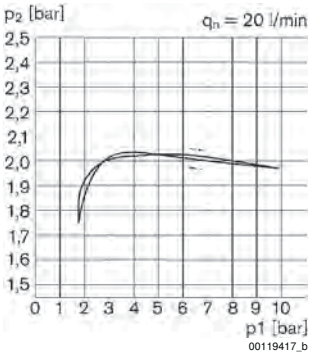
	Port	Qn	Working pressure min./max.	Condensate drain	Weight	Part No.
		[l/min]	[bar]		[kg]	
	G 3/8	5100	1.5 / 16	semi-automatic, open without pressure	0.586	R412007218
	G 3/8		1.5 / 16	fully automatic, open without pressure	0.635	R412007219
	G 3/8		0 / 16	fully automatic, closed without pressure	0.635	R412007220
	G 1/2		1.5 / 16	semi-automatic, open without pressure	0.586	**R412007221**
	G 1/2		1.5 / 16	fully automatic, open without pressure	0.635	**R412007222**
	G 1/2		0 / 16	fully automatic, closed without pressure	0.635	R412007223

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

Filter pressure regulator, Series AS3-FRE

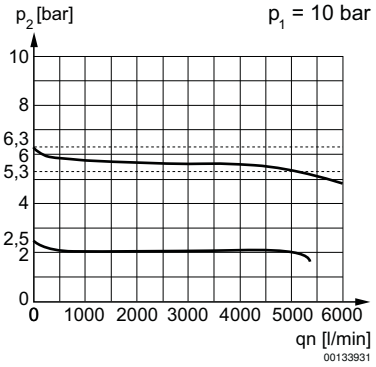
► G 3/8 - G 1/2 ► filter porosity: 40 µm ► lockable ► for padlocks ► suitable for ATEX

Pressure characteristics curve



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

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

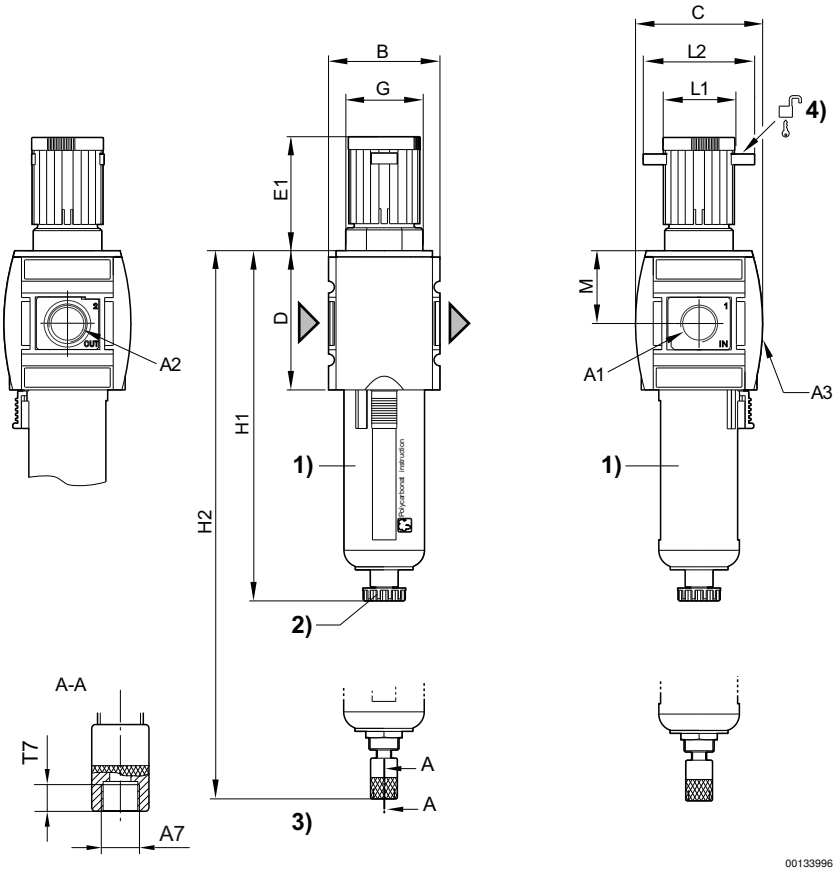


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 40 µm ► lockable ► for padlocks ► suitable for ATEX

Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection
1) Plastic reservoir and protective guard with window
2) Semi-automatic condensate drain
3) Fully automatic condensate drain
4) Mounting option for padlocks; max. shackle Ø 8

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	L1	L2
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	206	41	60
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	206	41	60

A1	T7	M											
G 3/8	8.5	42.5											
G 1/2	8.5	42.5											

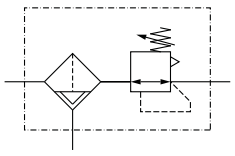
Filter pressure regulator, Series AS3-FRE-...-E11

► G 1/2 ► filter porosity: 40 µm ► lockable ► with E11 locking

00015831

Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Filter reservoir volume	49 cm³
Filter element	exchangeable
Condensate drain	fully automatic, closed without pressure
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
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.
■ The E11 locking is delivered without a key (see accessories for keys).
■ Max. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

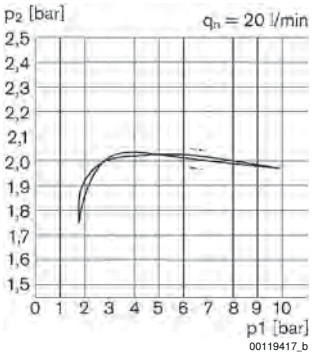
	Port	Qn	Working pressure min./max.	Weight	Part No.
		[l/min]	[bar]	[kg]	
	G 1/2	5100	0 / 16	0.635	R412007204

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

Filter pressure regulator, Series AS3-FRE-...-E11

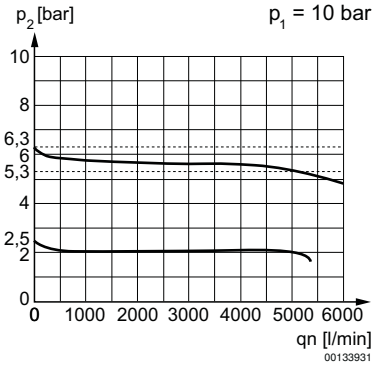
► G 1/2 ► filter porosity: 40 µm ► lockable ► with E11 locking

Pressure characteristics curve



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

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

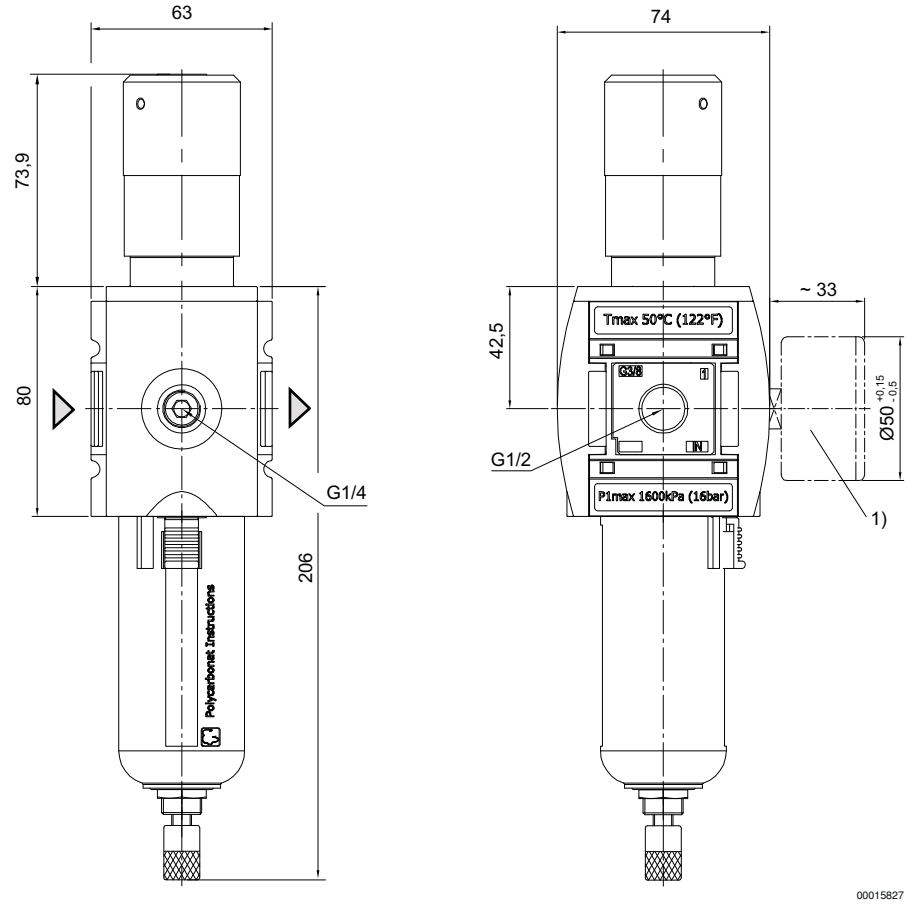


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Filter pressure regulator, Series AS3-FRE-...-E11

► G 1/2 ► filter porosity: 40 µm ► lockable ► with E11 locking

Dimensions



1) Order pressure gauge separately

Filter, Series AS3-FLS

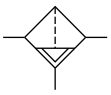
► G 3/8 - G 1/2 ► filter porosity: 5 µm ► suitable for ATEX

00119385

Version	Standard filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Filter reservoir volume	49 cm³
Filter element	exchangeable
filter porosity	5 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
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. residual oil content acc. to ISO 8573-1 at the outlet: 5 mg/m³

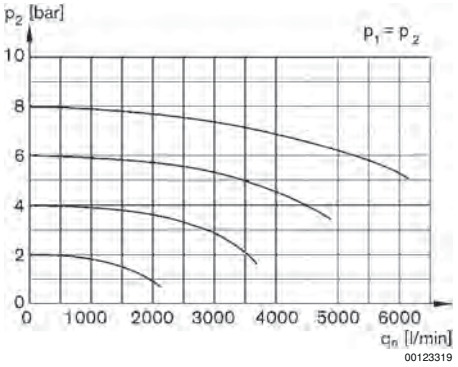
	Port	Qn	Working pressure min./max.	Condensate drain	Reservoir	Protective guard	Weight	Part No.
		[l/min]	[bar]				[kg]	
	G 3/8	3500	1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.361	**R412007000**
	G 3/8		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide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

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

Filter, Series AS3-FLS

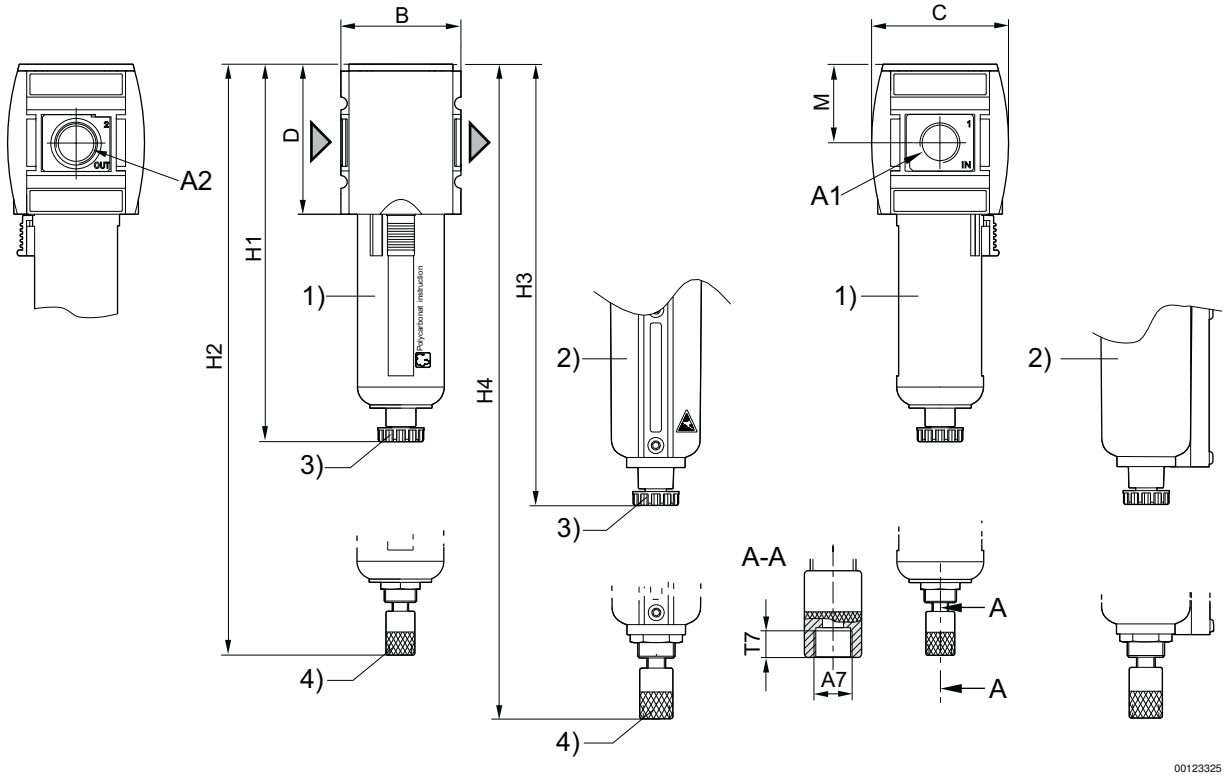
► G 3/8 - G 1/2 ► filter porosity: 5 µm ► suitable for ATEX

Flow rate characteristic



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

Dimensions



A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

Part No.	A1	A2	A7	B	C	D	H1	H2	H3	H4	M	T7
R412007000	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007001	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Filter, Series AS3-FLS

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► suitable for ATEX

Part No.	A1	A2	A7	B	C	D	H1	H2	H3	H4	M	T7
R412007002	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007006	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007007	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007008	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007009	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007010	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007011	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007015	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007016	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
R412007017	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5

Filter, Series AS3-FLS

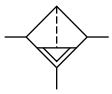
► G 1/2 ► filter porosity: 25 µm ► suitable for ATEX

00133768

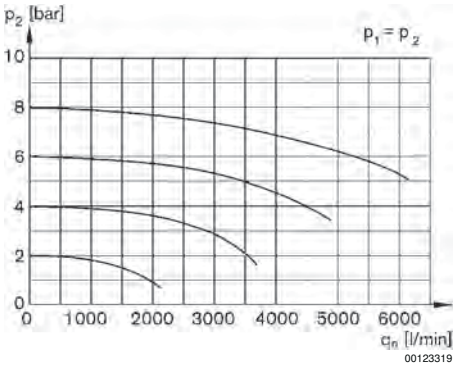
Version	Standard filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	1.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Filter reservoir volume	49 cm³
Filter element	exchangeable
filter porosity	25 µm
Condensate drain	semi-automatic, open without pressure
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Die cast zinc
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. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

	Port	Qn [l/min]	Weight [kg]	Part No.
	G 1/2	3500	0.361	**R412007090**
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar				

Flow rate characteristic



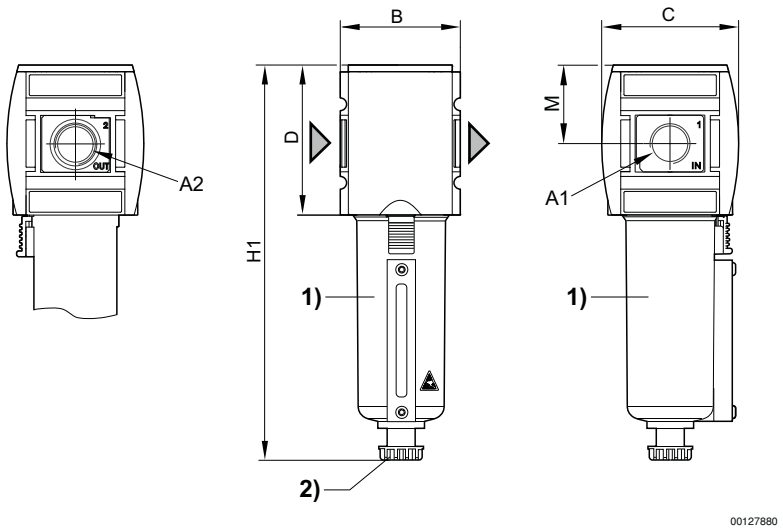
00123319

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

Filter, Series AS3-FLS

► G 1/2 ► filter porosity: 25 µm ► suitable for ATEX

Dimensions



A1 = input
A2 = output
1) Metal reservoir with level indicator
2) Semi-automatic condensate drain

Part No.	A1	A2	B	C	D	H1	M					
R412007090	G 1/2	G 1/2	63	74	80	193.5	42.5					

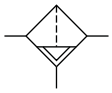
Filter, Series AS3-FLS

► G 3/8 - G 1/2 ► filter porosity: 40 µm ► suitable for ATEX

00119385

Version	Standard filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Filter reservoir volume	49 cm³
Filter element	exchangeable
filter porosity	40 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Sintered bronze

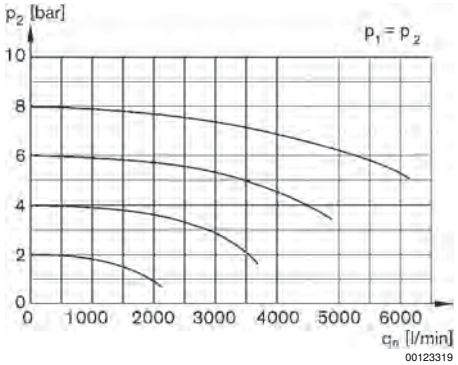
Technical Remarks
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
■ Max. residual oil content acc. to ISO 8573-1 at the outlet: 10 mg/m³

	Port	Qn	Working pressure min./max.	Condensate drain	Weight	Part No.
		[l/min]	[bar]		[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 with secondary pressure p2 = 6 bar at Δp = 1 bar						

Filter, Series AS3-FLS

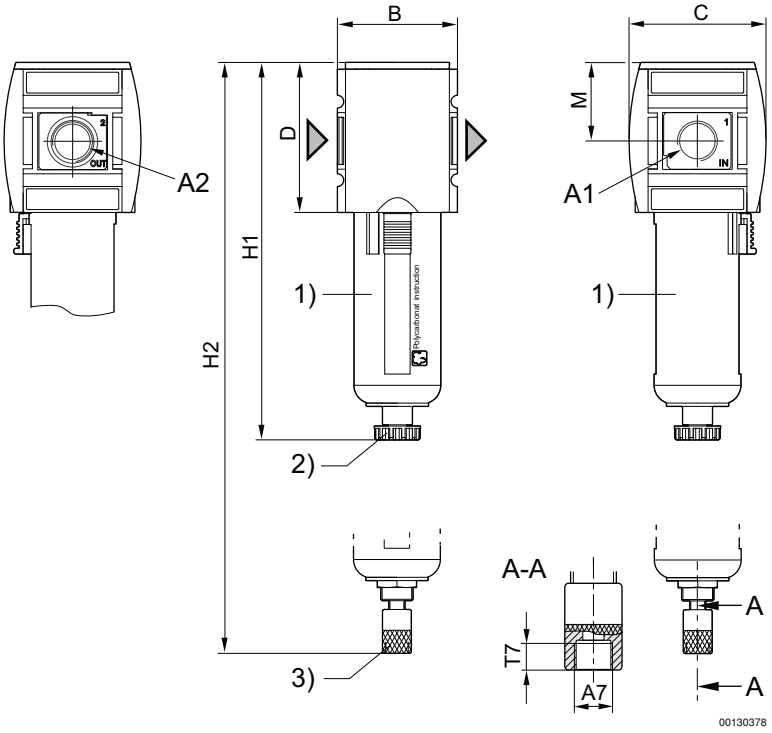
► G 3/8 - G 1/2 ► filter porosity: 40 µm ► suitable for ATEX

Flow rate characteristic



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

Dimensions



A1 = input
A2 = output
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	T7		
R412007003	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	42.5	8.5		
R412007004	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	42.5	8.5		
R412007005	G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	42.5	8.5		
R412007012	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	42.5	8.5		

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Filter, Series AS3-FLS

► G 3/8 - G 1/2 ► filter porosity: 40 µm ► suitable for ATEX

Part No.	A1	A2	A7	B	C	D	H1	H2	M	T7		
R412007013	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	42.5	8.5		
R412007014	G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	42.5	8.5		

Pre-filter, Series AS3-FLP

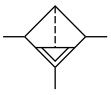
► G 3/8 - G 1/2 ► filter porosity: 0.3 µm ► suitable for ATEX

00127784

Version	Pre-filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Filter reservoir volume	49 cm³
Filter element	exchangeable
filter porosity	0.3 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
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. residual oil content acc. to ISO 8573-1 at the outlet: 100000 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 2

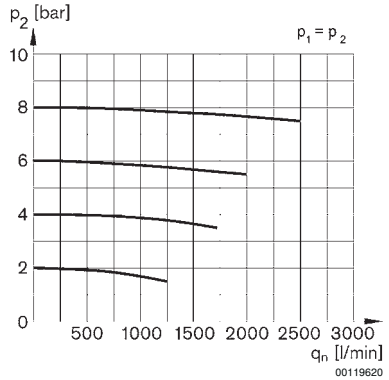
	Port	Qn	Working pressure min./max.	Condensate drain	Reservoir	Protective guard	Weight	Part No.
		[l/min]	[bar]				[kg]	
	G 3/8	900	1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.361	R412007018
	G 3/8		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	0.41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

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

Pre-filter, Series AS3-FLP

► G 3/8 - G 1/2 ► filter porosity: 0.3 µm ► suitable for ATEX

Flow rate characteristic

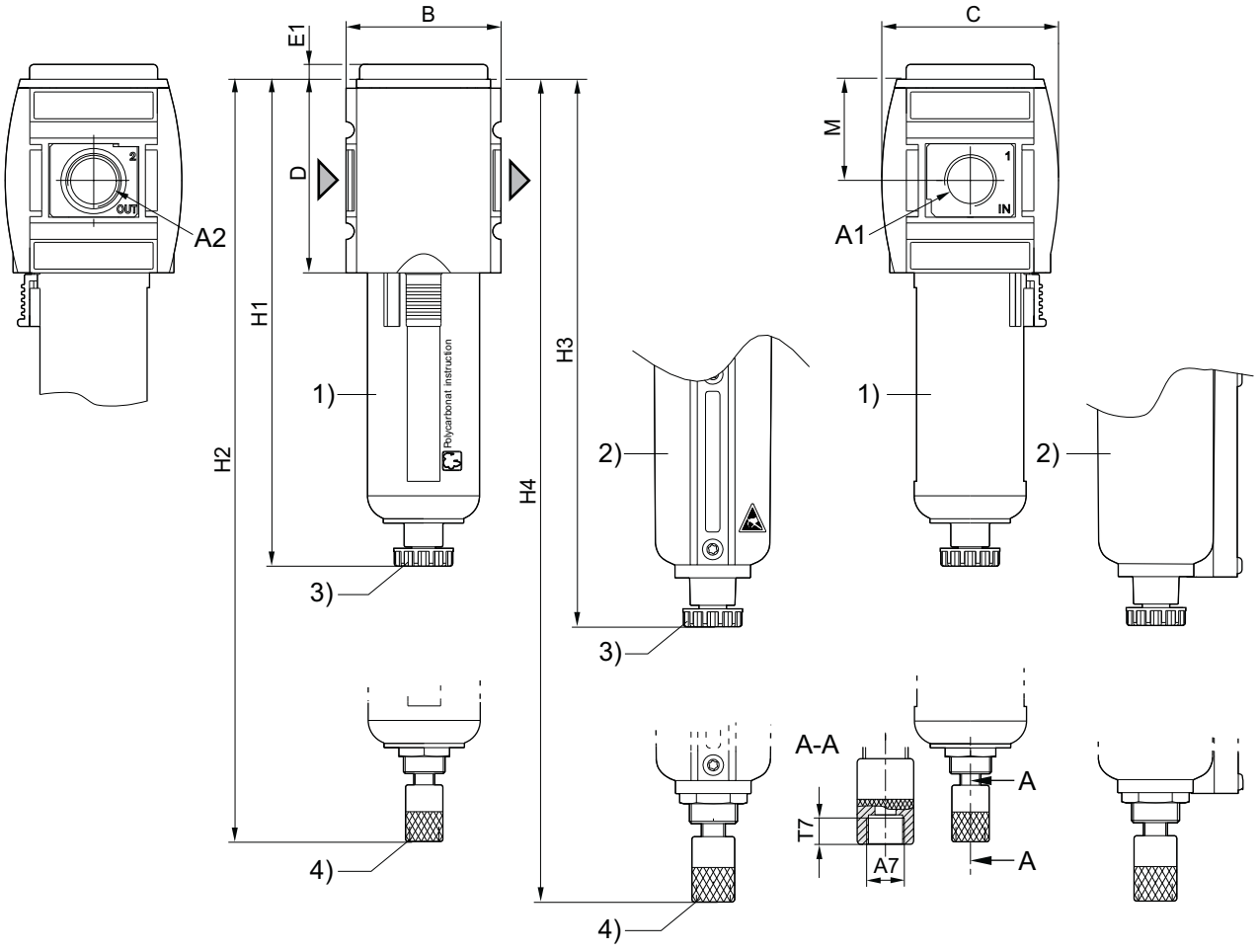


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pre-filter, Series AS3-FLP

► G 3/8 - G 1/2 ► filter porosity: 0.3 µm ► suitable for ATEX

Dimensions



A1 = input
A2 = output
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
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

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Microfilter, Series AS3-FLC

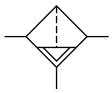
► G 3/8 - G 1/2 ► filter porosity: 0.01 µm ► suitable for ATEX

00127784

Version	Microfilter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Filter reservoir volume	49 cm³
Filter element	exchangeable
filter porosity	0.01 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Filter insert	Borosilicate 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	Weight	Part No.
		[l/min]	[bar]				[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 with window	-	0.78	R412007042
	G 3/8		1.5 / 16	fully automatic, open without pressure	Die cast zinc with window	-	0.833	R412007043
	G 3/8		0 / 16	fully automatic, closed without pressure	Die cast zinc with window	-	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 with window	-	0.759	**R412007051**
	G 1/2		1.5 / 16	fully automatic, open without pressure	Die cast zinc with window	-	0.812	R412007052
	G 1/2		0 / 16	fully automatic, closed without pressure	Die cast zinc with window	-	0.733	R412007053

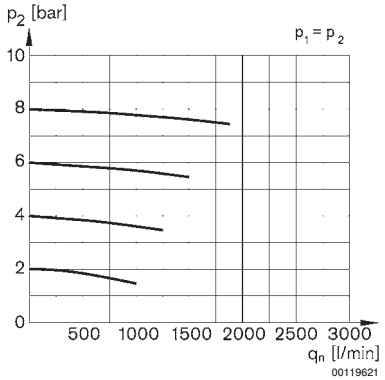
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Microfilter, Series AS3-FLC

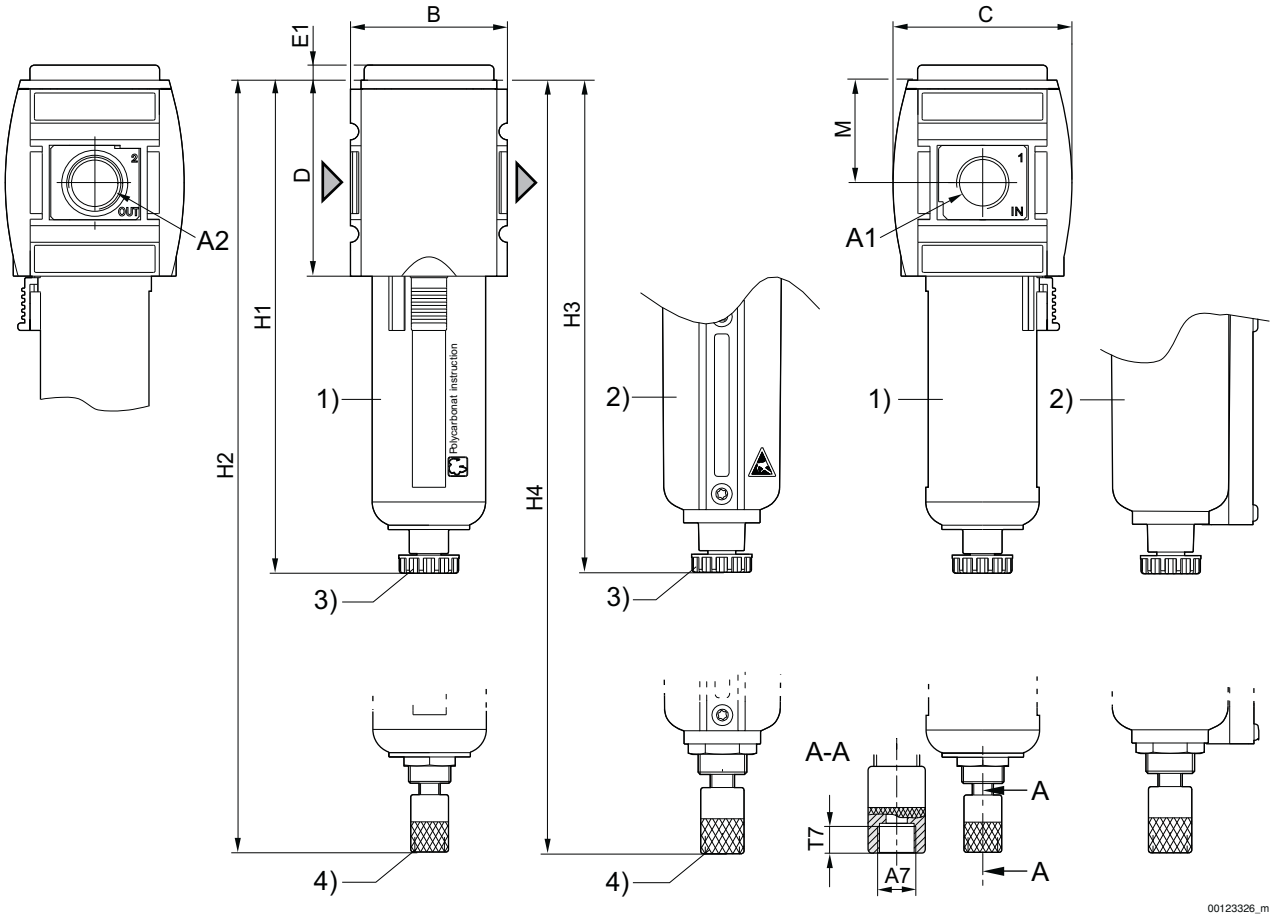
► G 3/8 - G 1/2 ► filter porosity: 0.01 µm ► suitable for ATEX

Flow rate characteristic



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

Dimensions



A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

Microfilter, Series AS3-FLC

► G 3/8 - G 1/2 ► filter porosity: 0.01 µm ► suitable for ATEX

Part No.	A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M	T7		
R412007036	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007037	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007038	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007042	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007043	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007044	G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007045	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007046	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007047	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007051	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007052	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		
R412007053	G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5		

Microfilter, Series AS3-FLC

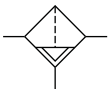
► G 3/8 - G 1/2 ► filter porosity: 0.01 µm ► contamination display: integrated ► suitable for ATEX

00119623

Version	Microfilter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Filter reservoir volume	49 cm³
Filter element	exchangeable
filter porosity	0.01 µm
Condensate drain	See table below
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Filter insert	Borosilicate 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

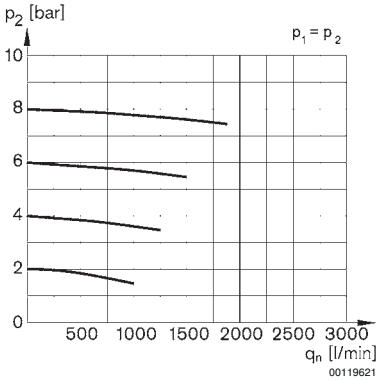
	Port	Qn	Working pressure min./max.	Condensate drain	Reservoir	Protective guard	Weight	Part No.
		[l/min]	[bar]				[kg]	
	G 3/8	700	1.5 / 16	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.361	R412007054
	G 3/8		1.5 / 16	fully automatic, open without pressure	Polycarbonate	Polyamide	0.41	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 with window	-	0.783	R412007060
	G 3/8		1.5 / 16	fully automatic, open without pressure	Die cast zinc with window	-	0.757	R412007061
	G 3/8		0 / 16	fully automatic, closed without pressure	Die cast zinc with window	-	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 with window	-	0.762	R412007069
	G 1/2		1.5 / 16	fully automatic, open without pressure	Die cast zinc with window	-	0.736	R412007070
	G 1/2		0 / 16	fully automatic, closed without pressure	Die cast zinc with window	-	0.736	R412007071

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

Microfilter, Series AS3-FLC

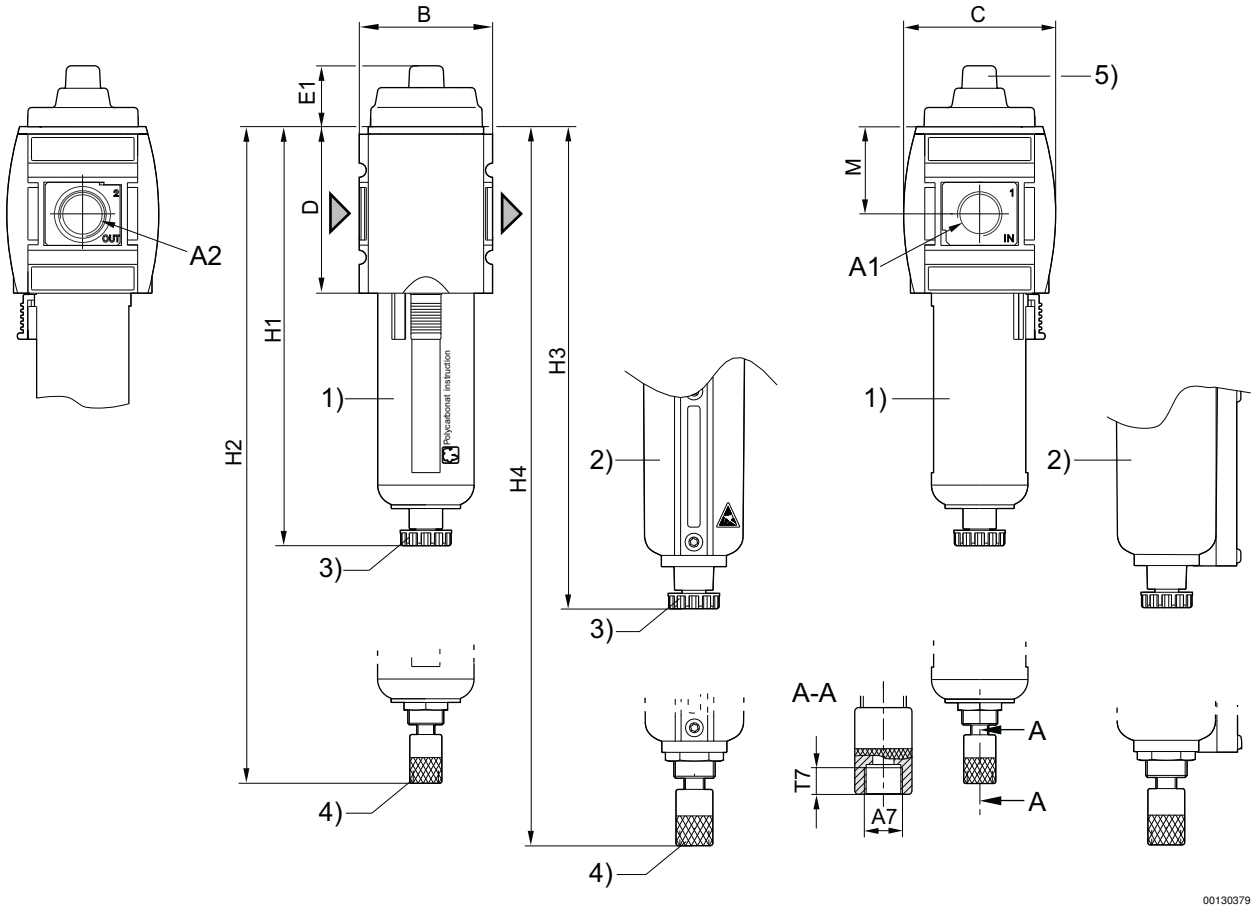
► G 3/8 - G 1/2 ► filter porosity: 0.01 µm ► contamination display: integrated ► suitable for ATEX

Flow rate characteristic



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

Dimensions



A1 = input
A2 = output
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 numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Microfilter, Series AS3-FLC

► G 3/8 - G 1/2 ► filter porosity: 0.01 µm ► contamination display: integrated ► suitable for ATEX

Part No.	A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M	T7			
R412007054	G 3/8	G 3/8	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007055	G 3/8	G 3/8	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007056	G 3/8	G 3/8	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007060	G 3/8	G 3/8	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007061	G 3/8	G 3/8	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007062	G 3/8	G 3/8	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007063	G 1/2	G 1/2	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007064	G 1/2	G 1/2	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007065	G 1/2	G 1/2	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007069	G 1/2	G 1/2	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007070	G 1/2	G 1/2	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			
R412007071	G 1/2	G 1/2	G 1/8	63	74	80	23.7		206	193.5	210.5		8.5			

Active carbon filter, Series AS3-FLA

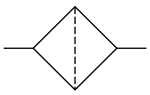
► G 3/8 - G 1/2 ► suitable for ATEX

00121762

Version	Active carbon filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Filter reservoir volume	49 cm³
Filter element	exchangeable
Condensate drain	without
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
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

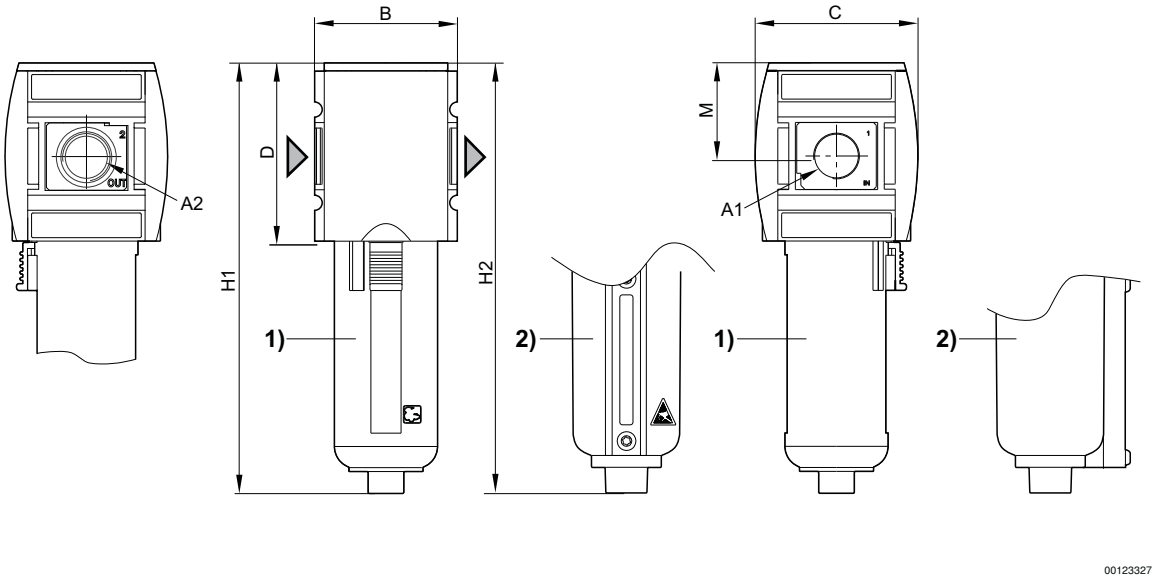
	Port	Qn	Reservoir	Protective guard	Weight	Part No.
		[l/min]			[kg]	
	G 3/8	1000	Polycarbonate	Polyamide	0.375	R412007072
	G 3/8		Die cast zinc with window	-	0.751	R412007074
	G 1/2		Polycarbonate	Polyamide	0.375	**R412007075**
	G 1/2		Die cast zinc with window	-	0.73	R412007077

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

Active carbon filter, Series AS3-FLA

► G 3/8 - G 1/2 ► suitable for ATEX

Dimensions



A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass

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				

Diaphragm-type dryer, Series AS3-ADD

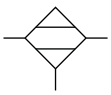
► G 1/2

00134257

Version	Diaphragm-type dryer
Mounting orientation	vertical
Working pressure min./max.	4 bar / 12.5 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	+2 °C / +50 °C
Ambient temperature min./max.	+2 °C / +50 °C
Filter element	not exchangeable
Lowering pressure dew point	20 °C
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Reservoir	Aluminum

Technical Remarks

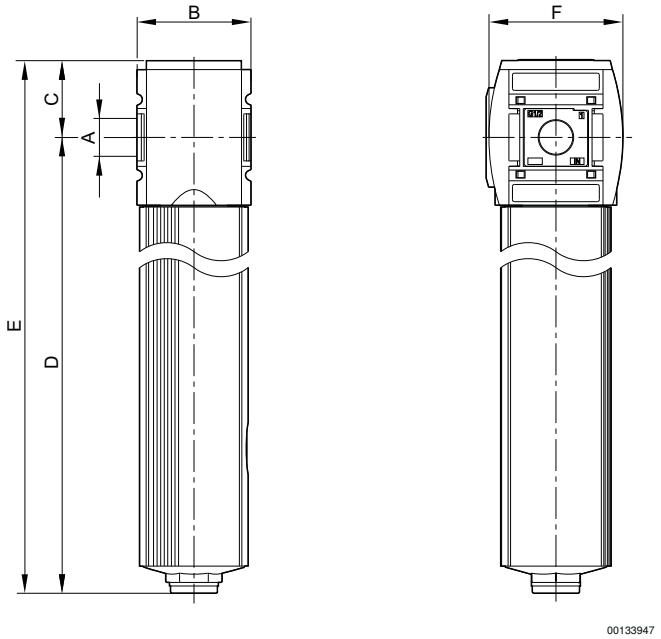
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Notice: air may not contain condensate
- purge air approx. 12% of nominal flow Qn
- Recommended pre-filtering [µm]: 5 / 0.01 µm

	Port	Qn [l/min]	Weight [kg]	Fig.	Note	Part No.
	G 1/2	400	2.03	Fig. 1	-	R412007078
		500	3.26	Fig. 2	1)	R412007079
		660	3.56	Fig. 2	1)	R412007080
		950	3.9	Fig. 2	1)	R412007081

1) incl. distributor

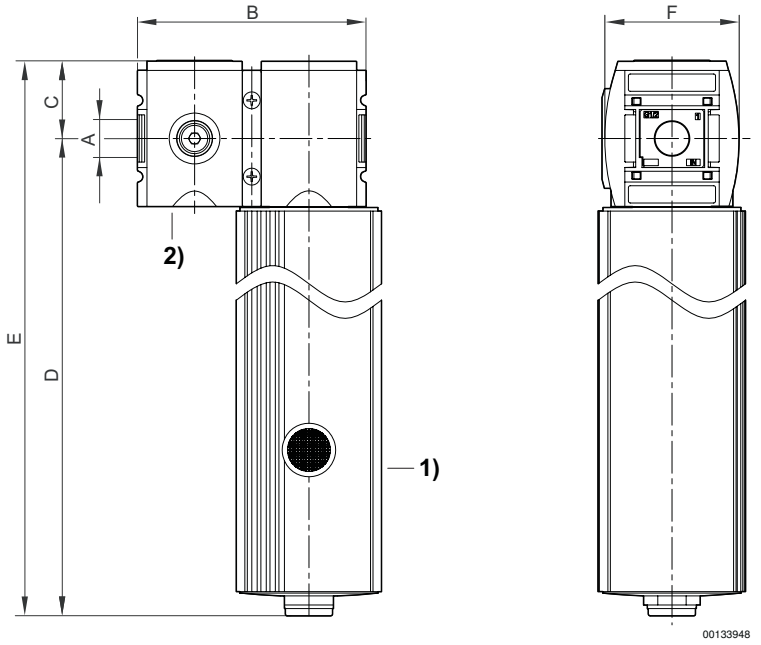
Diaphragm-type dryer, Series AS3-ADD
► G 1/2

Dimensions, Fig. 1



Part No.	A	B	C	D	E	F						
R412007078	G 1/2	63	43	478	521	74						

Dimensions, Fig. 2



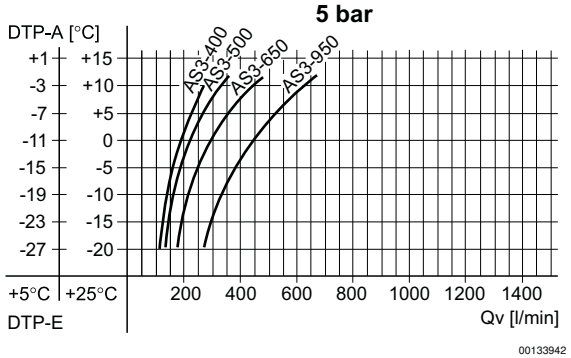
1) Diaphragm-type dryer
2) Distributor

Diaphragm-type dryer, Series AS3-ADD

► G 1/2

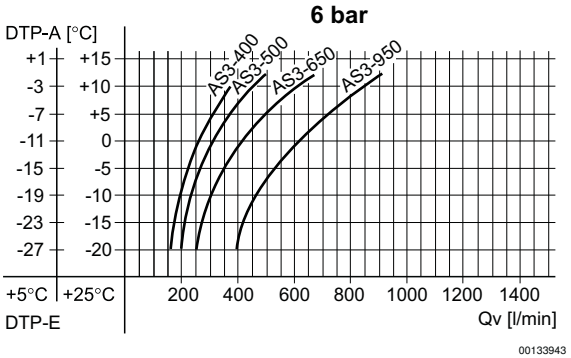
Part No.	A	B	C	D	E	F						
R412007079	G 1/2	126	43	464	507	74						
R412007080	G 1/2	126	43	515	558	74						
R412007081	G 1/2	126	43	584	627	74						

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 AVENTICS sales office.

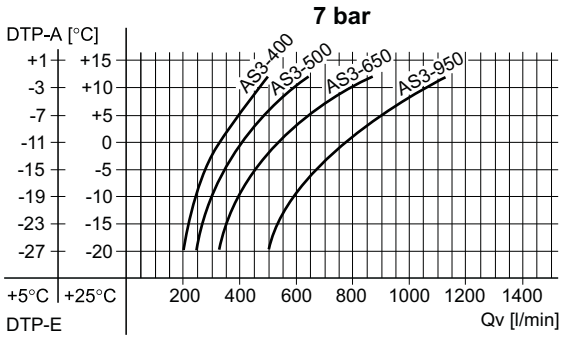
performance charts



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 AVENTICS sales office.

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 AVENTICS sales office.

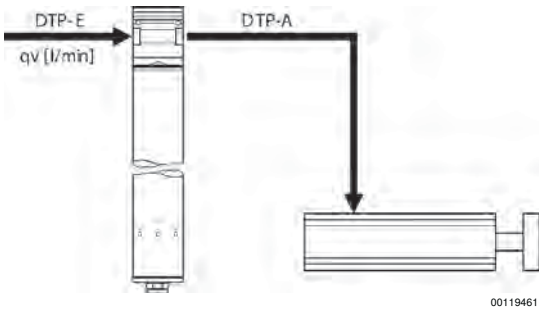
performance charts

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 AVENTICS sales office.

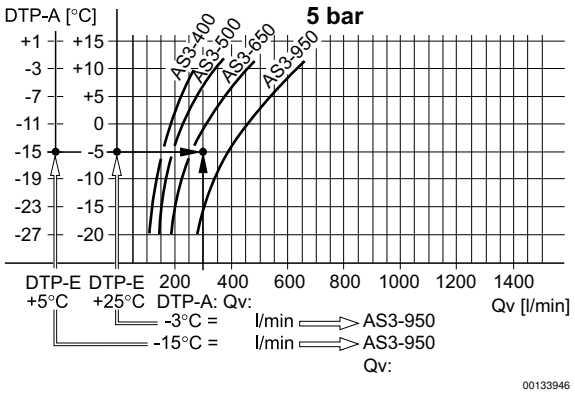
Diaphragm-type dryer, Series AS3-ADD

► G 1/2

Example
wanted:
suitable membrane dryer



Example
given values: Qn = 350 l/min, DTP-E = +5 (+25) °C,
searched values: DTP-A = -15 (-3) °C a suitable membrane dryer



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

Standard oil-mist lubricator, Series AS3-LBS

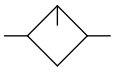
► G 3/8 - G 1/2

00121761

Version	Oil-mist lubricator, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Lubricator reservoir volume	80 cm³
Type of filling	Semi-automatic oil filling during operation Manual oil filling
Oil type	HLP 32 (DIN 51 524 - ISO VG 32) HLP 68 (DIN 51 524 - ISO VG 68)
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

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, sensor holder included in the scope of the delivery.
- The entire preset drip quantity enters the pressure system
- Manual oil filling possible during operation
- Oil dosing at 1000 l/min [drops/min]: 1-2

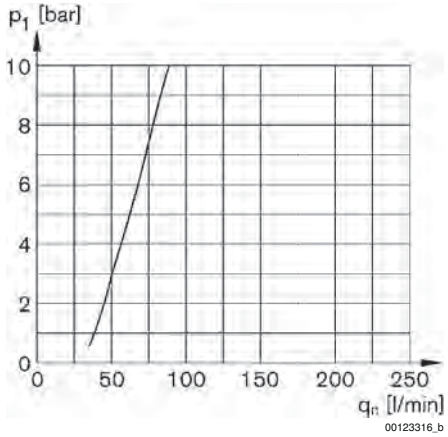
	Port	Qn	Reservoir	Protective guard	Weight	Note	Part No.
		[l/min]			[kg]		
	G 3/8	8000	Polycarbonate	Polyamide	0.343	2)	**R412007225**
	G 3/8		Polycarbonate	Polyamide	0.343	1)	R412007226
	G 3/8		Die cast zinc with window	-	0.749	2)	R412007229
	G 1/2		Polycarbonate	Polyamide	0.343	2)	**R412007231**
	G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

1) Electrical level detection
2) suitable for ATEX: II 2G2D T4X
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Standard oil-mist lubricator, Series AS3-LBS

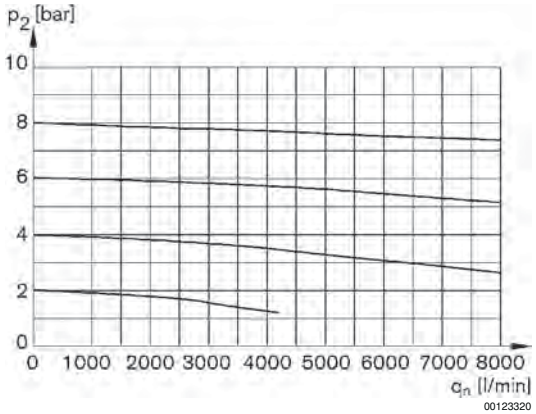
► G 3/8 - G 1/2

Lubricator activation margin



p1 = working pressure
qn = nominal flow

Flow rate characteristic

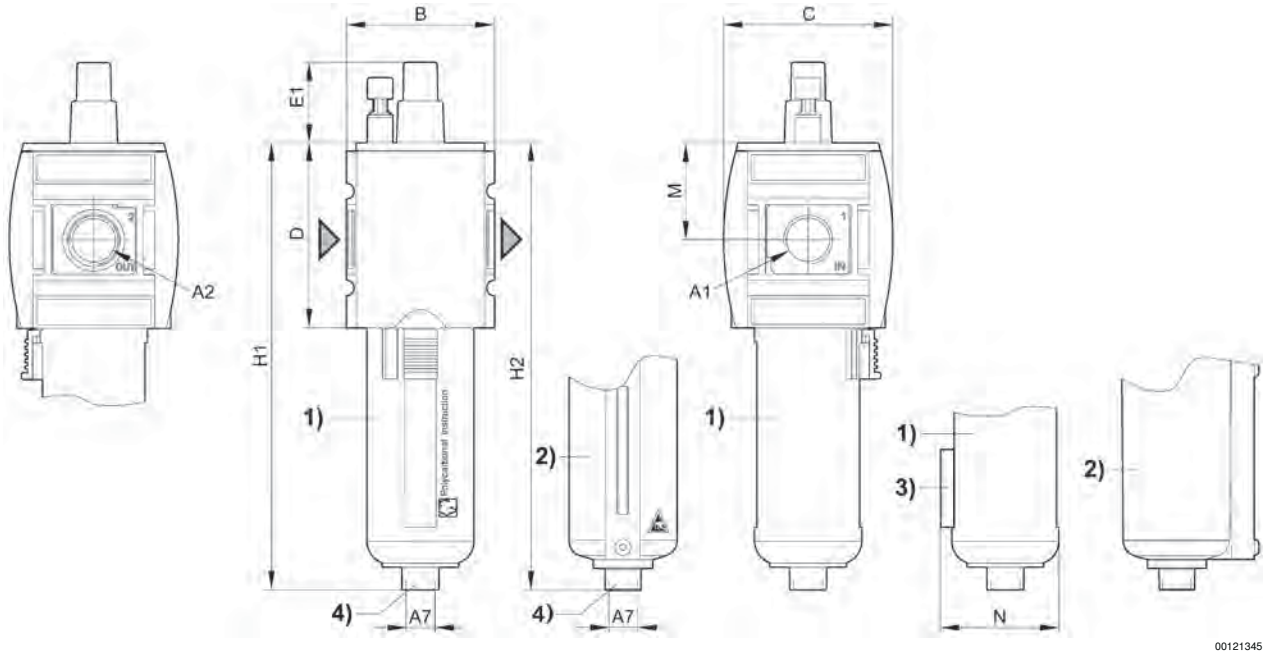


p2 = secondary pressure
qn = nominal flow

Standard oil-mist lubricator, Series AS3-LBS

► G 3/8 - G 1/2

Dimensions



A1 = input
A2 = output
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 3/8	G 3/8	G 1/8	63	74	80	27.5	183	187	42.5	48			
G 1/2	G 1/2	G 1/8	63	74	80	27.5	183	187	42.5	48			

Filling unit, electrically operated, Series AS3-SSU

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

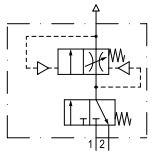
00119381

Parts	3/2-directional valve, electrically operated, Filling valve
Version	Poppet valve, Can be assembled into blocks
Nominal flow	3500 l/min
Nominal flow, 1►2	3500 l/min
Nominal flow, 2►3	3200 l/min
Working pressure min./max.	2.5 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Pilot	internal
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class, with Plug Mounted	IP65
Duty cycle	100 %
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks

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

Operational voltage			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	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

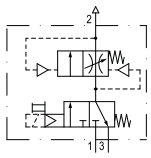
		Port	Exhaust	Operational voltage			Electr. connection	Weight	Fig.	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz					
								[kg]			
	-	G 3/8	G 1/2	-	-	-	-	0.889	Fig. 1	2); 5)	R412007277
		G 3/8						0.895	Fig. 2	3); 5)	R412007286
		G 1/2						0.889	Fig. 1	2); 5)	R412007282
		G 1/2						0.895	Fig. 2	3); 5)	**R412007287**

1) With adjustment screw lock
2) Basic valve without pilot valve
3) Basic valve without pilot valve, with CNOMO subbase
4) Basic valve with pilot valve
5) ATEX optional
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

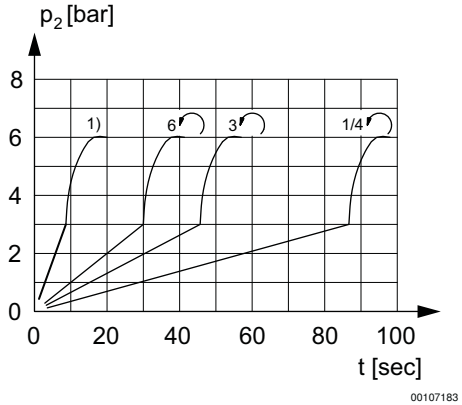
Filling unit, electrically operated, Series AS3-SSU

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

		Port	Exhaust	Operational voltage			Electr. connection	Weight	Fig.	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz					
								[kg]			
		G 3/8	G 1/2	24 V	-	-	Plug, ISO 15217, form C	0.924	Fig. 3	4)	**R412007278**
		G 3/8		-	110 V	110 V	Plug, M12x1	0.924	Fig. 3	4)	R412007279
		G 3/8		-	220 V	230 V	Plug, ISO 15217, form C	0.924	Fig. 3	4)	R412007280
		G 1/2		24 V	-	-	Plug, M12x1	0.9	Fig. 4	1); 4)	**R412007394**
		G 1/2		24 V	-	-	Plug, ISO 15217, form C	0.924	Fig. 3	4)	**R412007283**
		G 1/2		-	110 V	110 V	Plug, ISO 15217, form C	0.924	Fig. 3	4)	R412007284
		G 1/2		-	220 V	230 V	Plug, ISO 15217, form C	0.924	Fig. 3	4)	R412007285

1) With adjustment screw lock
2) Basic valve without pilot valve
3) Basic valve without pilot valve, with CNOMO subbase
4) Basic valve with pilot valve
5) ATEX optional
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

Secondary pressure while filling

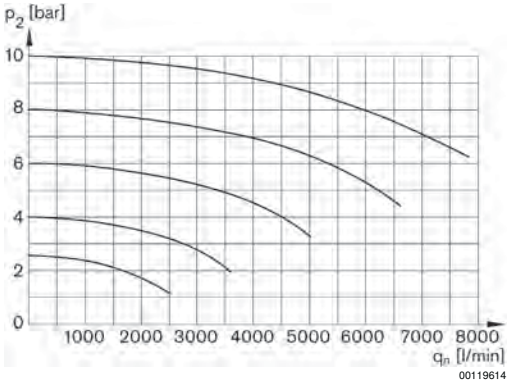


adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

Filling unit, electrically operated, Series AS3-SSU

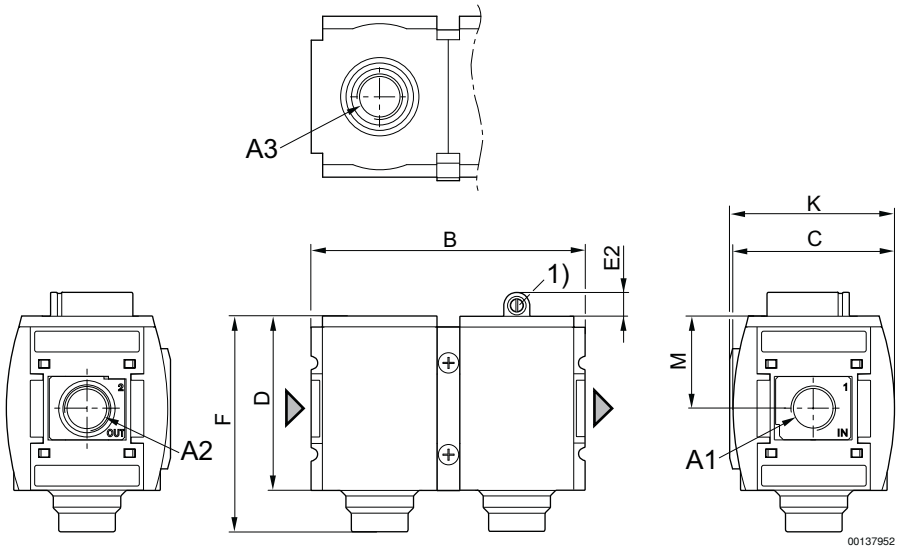
► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Fig. 1: Filling unit without pilot valve with porting configuration for series DO16



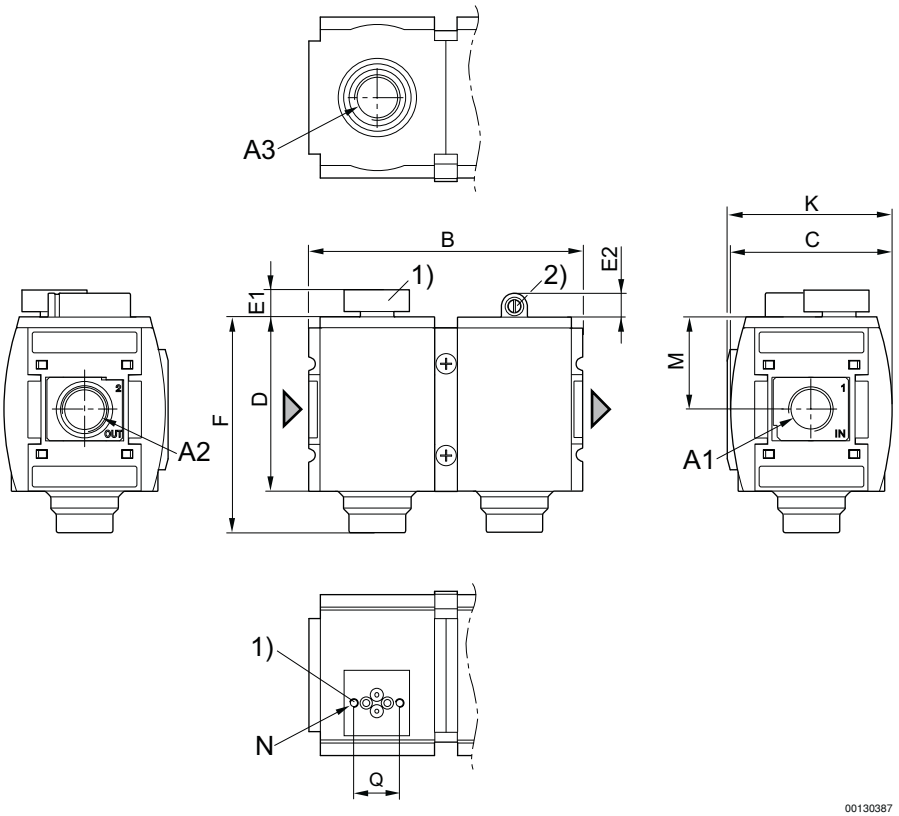
A1 = input
A2 = output
1) Adjustment screw for filling time

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

Filling unit, electrically operated, Series AS3-SSU

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

Fig. 2: Filling unit with transition plate for pilot valve series DO30



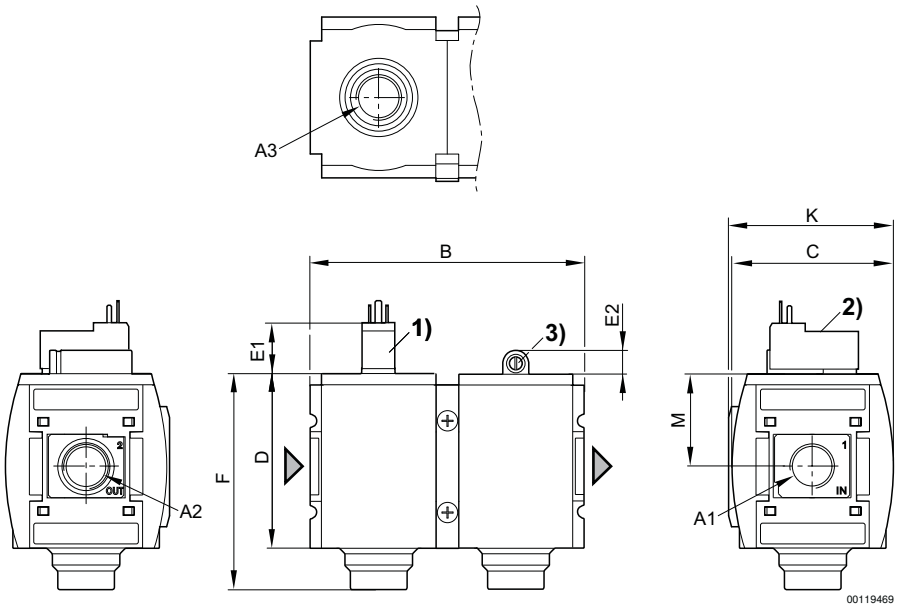
A1 = input
A2 = output
A3 = ventilation port
1) Transition plate with CNOMO porting configuration for pilot valve DO30
2) Adjustment screw for filling time

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

Filling unit, electrically operated, Series AS3-SSU

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

Fig. 3: Filling unit with pilot valve and port for electrical connector



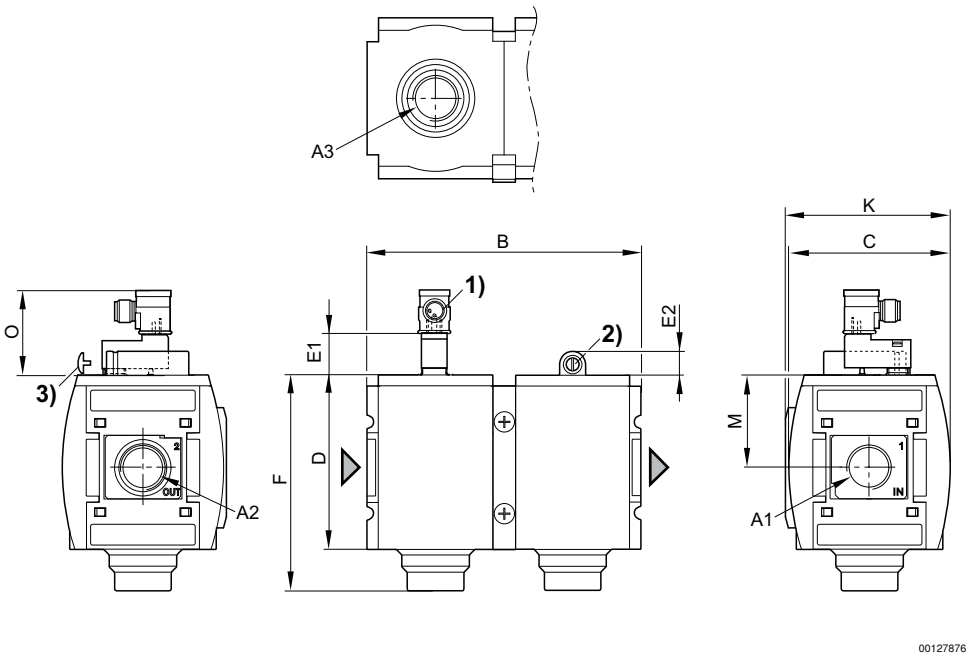
A1 = input
A2 = output
A3 = ventilation port
1) Port for electrical connector according to ISO 15217 (form C)
2) Manual override
3) Adjustment screw for filling time

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

Filling unit, electrically operated, Series AS3-SSU

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

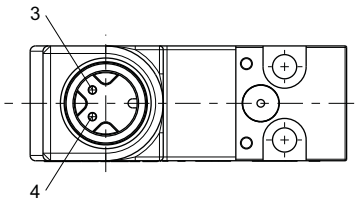
Fig. 4: Filling unit with pilot valve and electrical connector for plug



A1 = input
A2 = output
A3 = ventilation port
1) Port for plug M12x1
2) Adjustment screw for filling time
3) Adjustment screw lock

A1	A2	A3	B	C	D	E1	E2	F	K	M			
G 1/2	G 1/2	G 1/2	125.75	74	80	39	11	99	75.5	42.5			

Pin assignment M12x1



3: +/-
4: +/-

Filling unit, electrically operated, Series AS3-SSU

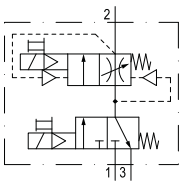
► Poppet valve with elect. priority circuit ► G 1/2 ► pipe connection ► Electr. connection: Plug, M12x1

00134295_a

Parts	3/2-directional valve, electrically operated, Filling valve with elect. priority circuit
Version	Poppet valve, Can be assembled into blocks
Nominal flow	3500 l/min
Nominal flow, 1►2	3500 l/min
Nominal flow, 2►3	3200 l/min
Working pressure min./max.	2.5 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Pilot	internal
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class, with Plug Mounted	IP65
Duty cycle	100 %
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
■ Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
■ Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.

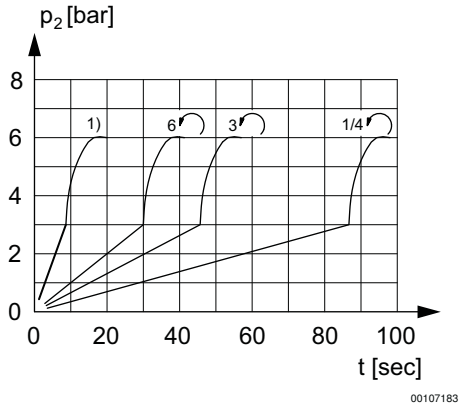
Operational voltage	Power consumption
DC	DC
	W
24 V	2

		Port	Operational voltage	Weight	Part No.
			DC		
				[kg]	
		G 1/2	24 V	0.924	R412007395
Basic valve with pilot valve Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar					

Filling unit, electrically operated, Series AS3-SSU

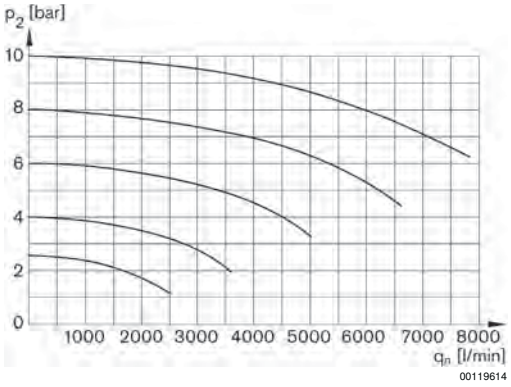
► Poppet valve with elect. priority circuit ► G 1/2 ► pipe connection ► Electr. connection: Plug, M12x1

Secondary pressure while filling



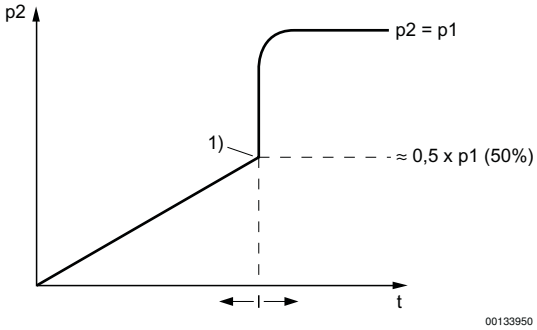
adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Start function

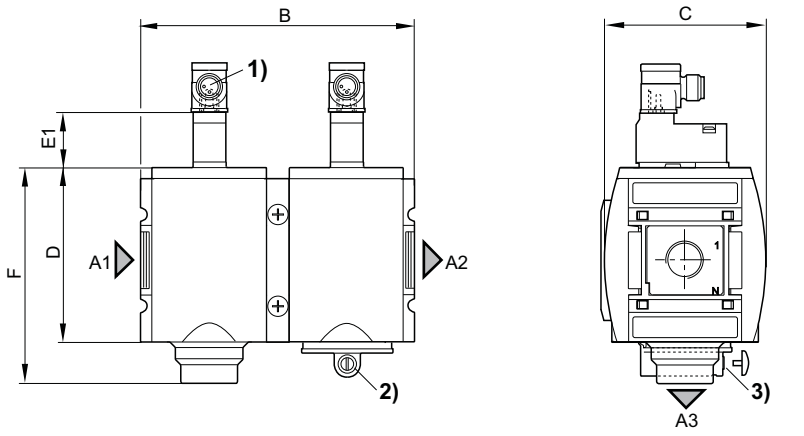


p1 = working pressure
p2 = output pressure
t = adjustable filling time
1) Switching point

Filling unit, electrically operated, Series AS3-SSU

► Poppet valve with elect. priority circuit ► G 1/2 ► pipe connection ► Electr. connection: Plug, M12x1

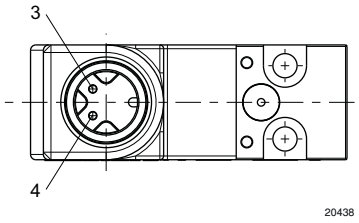
Dimensions, With pilot valve, series DO16



A1 = input
A2 = output
A3 = ventilation port
1) Electr. connection: M12x1 electrical connector
2) Adjustment screw for filling time
3) Adjustment screw lock

A1	A2	A3	B	C	D	E1	F						
G 1/2	G 1/2	G 1/2	125.75	74	80	39	99						

Pin assignment M12x1



3: +/-
4: +/-

Filling unit, pneumatically operated, Series AS3-SSU

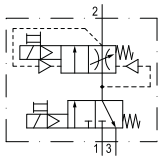
► G 3/8 - G 1/2 ► pipe connection ► suitable for ATEX

00119379

Parts	3/2-directional valve, pneumatically operated, Filling valve
Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Pilot	internal
Sealing principle	Soft sealing
Control pressure min./max.	2.5 bar / 16 bar
Max. particle size	40 µm
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks

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

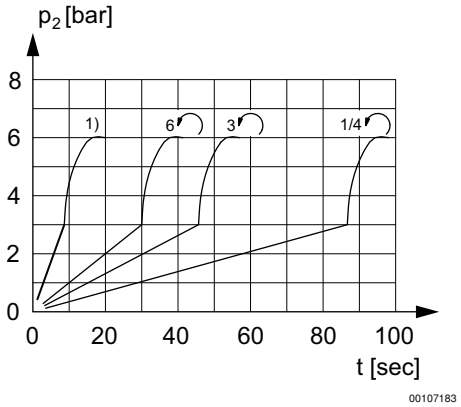
	Port	Exhaust	Qn			Weight	Note	Part No.
				1►2	2►3			
					[l/min]	[kg]		
	G 3/8						-	R412007276
	G 1/2						-	R412007281
		G 1/2	3500	3500	3200	0.924		
	G 1/2						1)	R412007289

1) With adjustment screw lock
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Filling unit, pneumatically operated, Series AS3-SSU

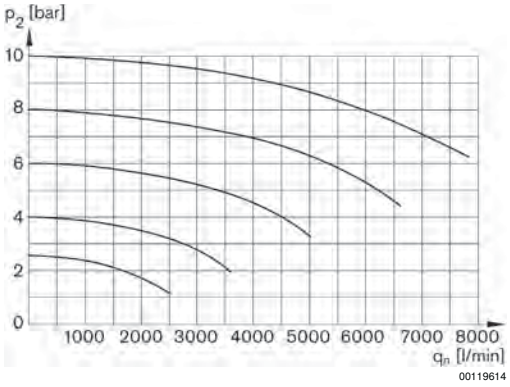
► G 3/8 - G 1/2 ► pipe connection ► suitable for ATEX

Secondary pressure while filling



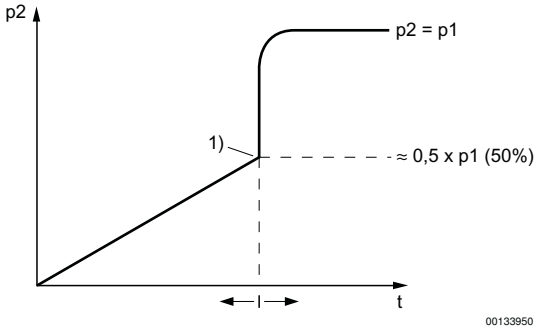
adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Start function

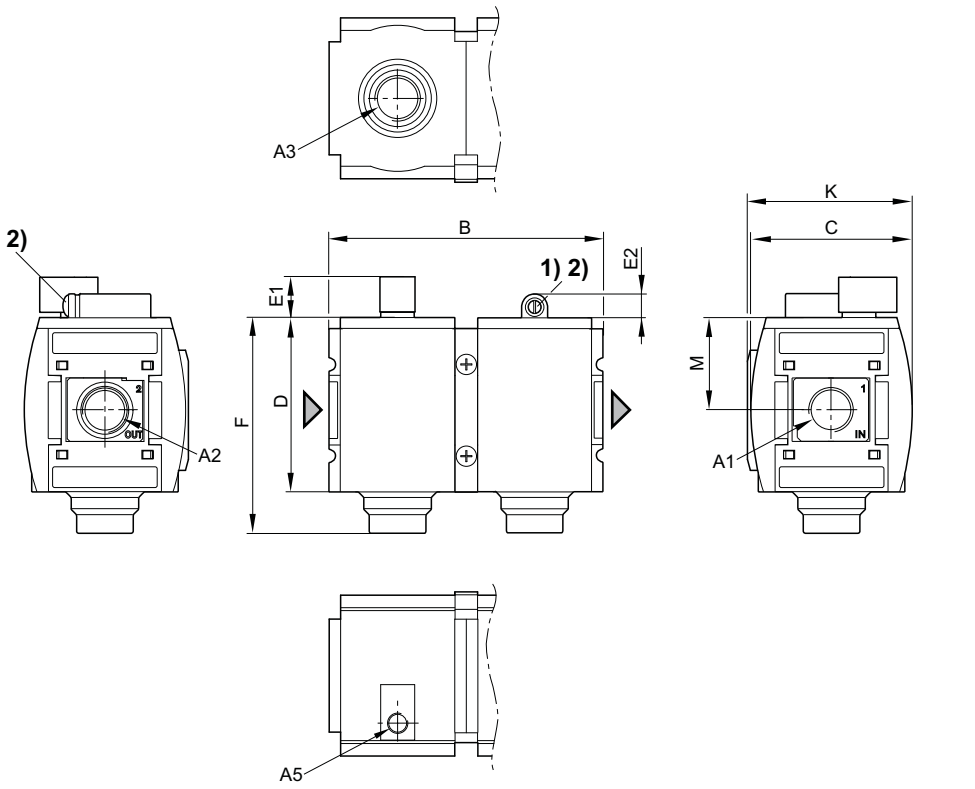


p1 = working pressure
p2 = output pressure
t = adjustable filling time
1) Switching point

Filling unit, pneumatically operated, Series AS3-SSU

► G 3/8 - G 1/2 ► pipe connection ► suitable for ATEX

Dimensions



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

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
R412007289	G 1/2	G 1/2	G 1/2	G 1/8	125.75	74	80	18.5	11	99	75.5	42.5

Filling valve, pneumatically operated, Series AS3-SSU

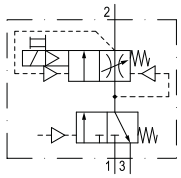
► Poppet valve with elect. priority circuit ► G 1/2 ► pipe connection

00134294_a

Parts	3/2-directional valve, pneumatically operated, Filling valve with elect. priority circuit
Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Pilot	internal
Sealing principle	Soft sealing
Control pressure min./max.	2.5 bar / 16 bar
Max. particle size	25 µm
Protection class,withPlug	IP65
Duty cycle	100 %
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.

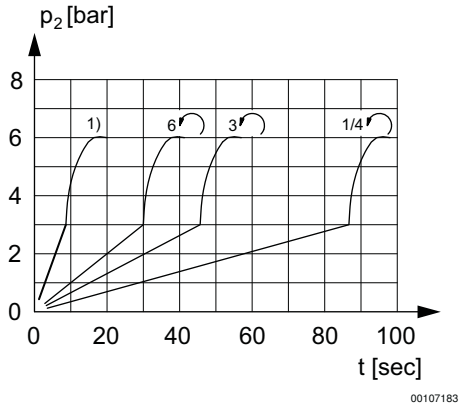
	Port	Exhaust	Qn			Weight	Part No.
				1►2	2►3		
				[l/min]		[kg]	
	G 1/2	G 1/2	3500	3500	3200	0.924	R412007393

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

Filling valve, pneumatically operated, Series AS3-SSU

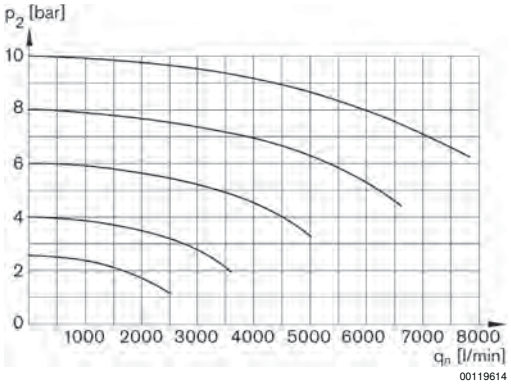
► Poppet valve with elect. priority circuit ► G 1/2 ► pipe connection

Secondary pressure while filling



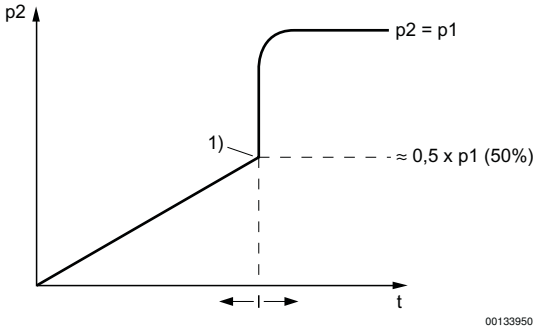
adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Start function

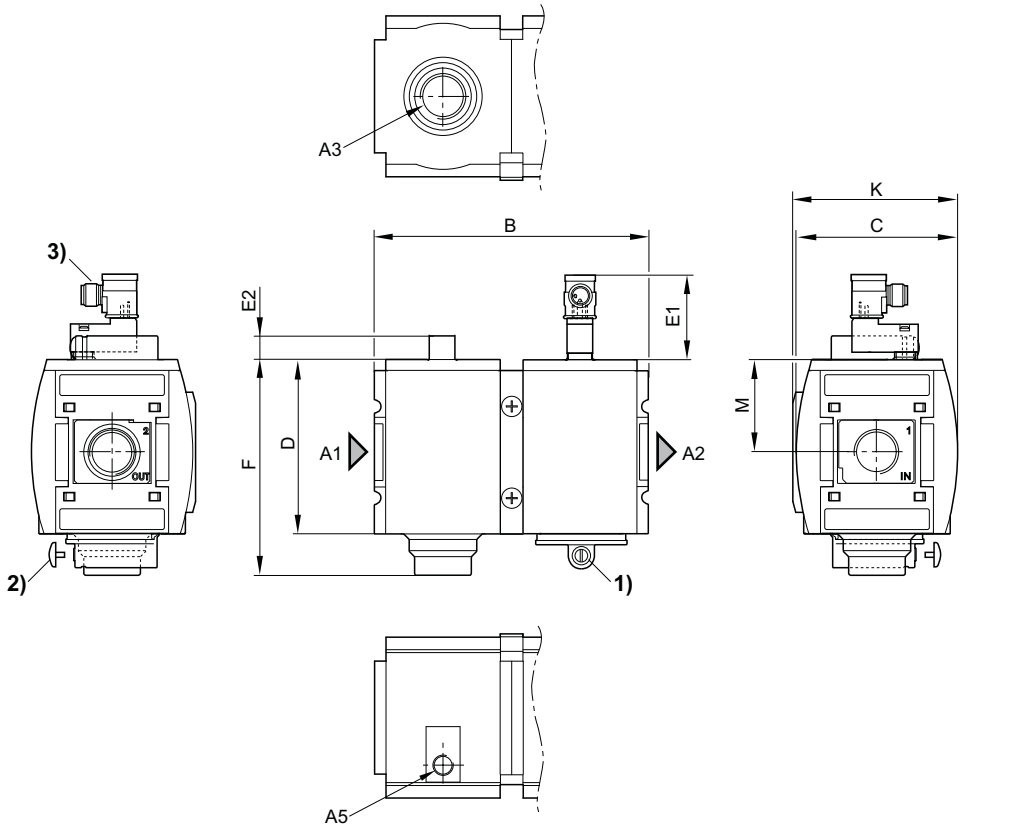


p1 = working pressure
p2 = output pressure
t = filling time
1) Switching point

Filling valve, pneumatically operated, Series AS3-SSU

► Poppet valve with elect. priority circuit ► G 1/2 ► pipe connection

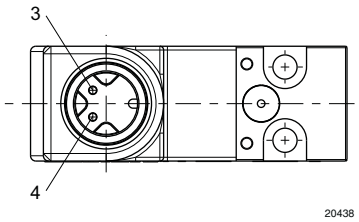
Dimensions



A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection
1) Adjustment screw for filling time
2) Adjustment screw lock
3) For electrical connector M12x1

Part No.	A1	A2	A3	A5	B	C	D	E1	F	K	M	
R412007393	G 1/2	G 1/2	G 1/2	G 1/8	126	74	80	39	99	75.5	42.5	

Pin assignment M12x1



3: +/-
4: +/-

Filling valve, pneumatically operated, Series AS3-SSV

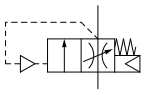
► G 3/8 - G 1/2 ► suitable for ATEX

00119766

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

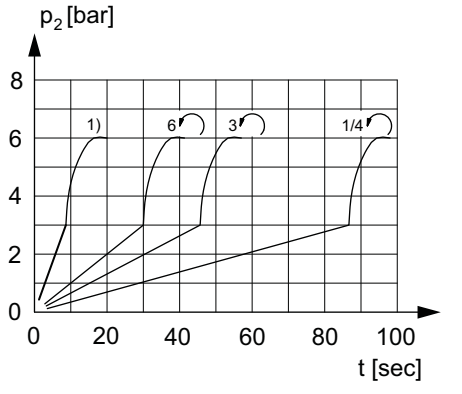
Technical Remarks

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

	Port	Qn [l/min]	Weight [kg]	Note	Part No.
	G 3/8	4500	0.43	-	**R412007272**
	G 1/2			-	**R412007273**
	G 1/2			1)	**R412007275**

1) With adjustment screw lock
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Secondary pressure while filling

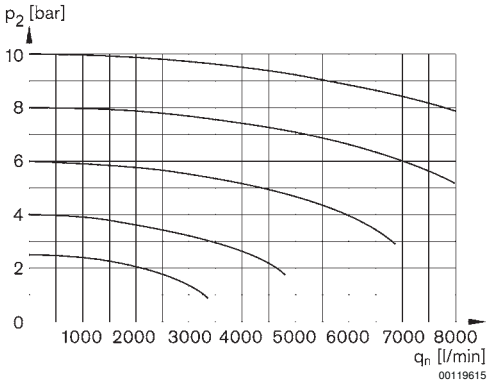


00107183

adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

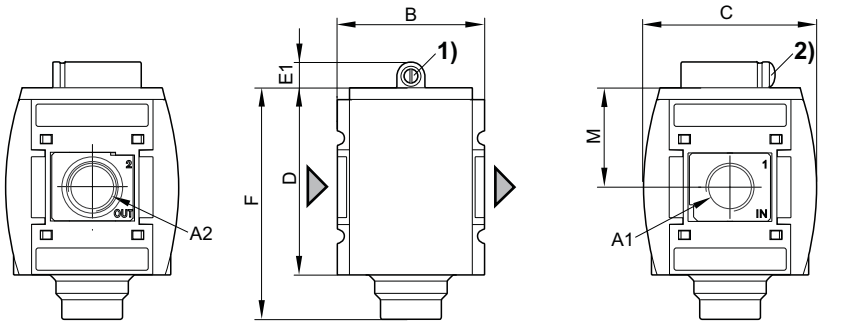
Filling valve, pneumatically operated, Series AS3-SSV
► G 3/8 - G 1/2 ► suitable for ATEX

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Dimensions



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

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

Filling valve, pneumatically operated, Series AS3-SSV

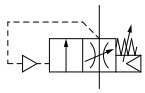
► adjustable filling time and change-over pressure ► G 3/8 - G 1/2 ► suitable for ATEX

00133797

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

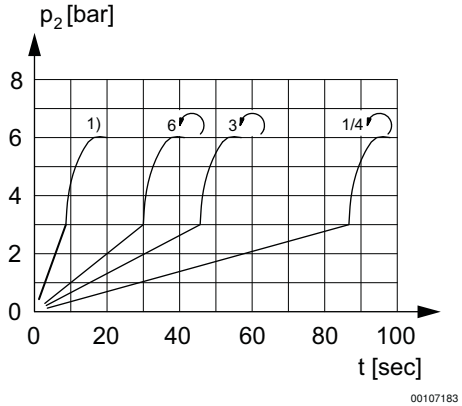
Technical Remarks

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

	Port	Qn [l/min]	Weight [kg]	Part No.
	G 3/8	4500	0.43	R412007245
	G 1/2			R412007246

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

Secondary pressure while filling



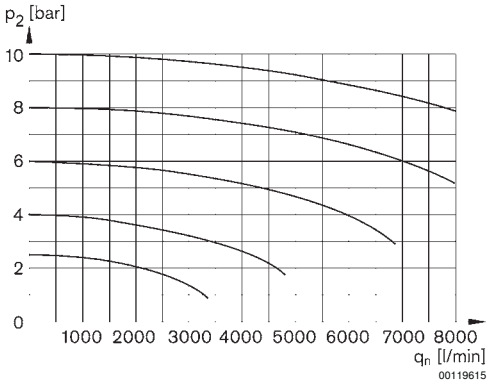
00107183

adjustable filling time
1) Fully opened
p2 = secondary pressure
t = fill time

Filling valve, pneumatically operated, Series AS3-SSV

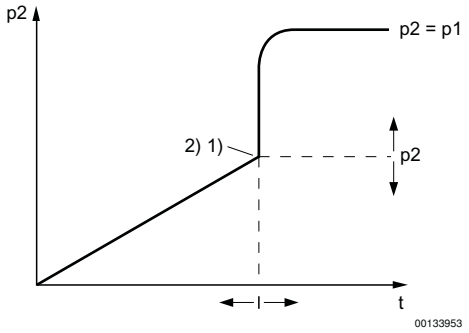
► adjustable filling time and change-over pressure ► G 3/8 - G 1/2 ► suitable for ATEX

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Start function

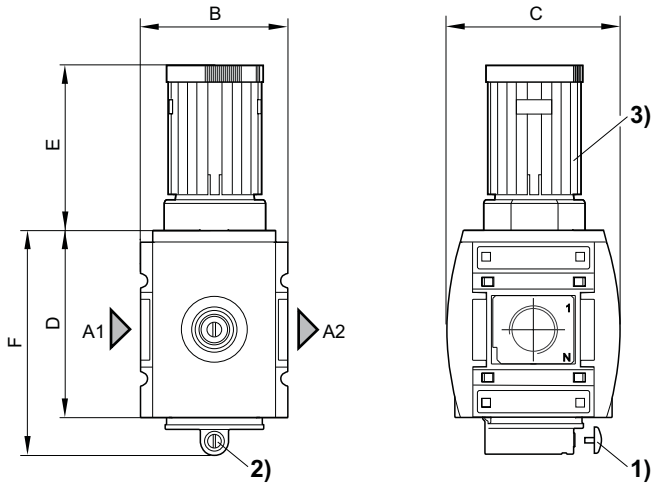


p1 = working pressure
p2 = output pressure
t = adjustable filling time
1) Switching point
2) adjustable filling time and change-over pressure

Filling valve, pneumatically operated, Series AS3-SSV

► adjustable filling time and change-over pressure ► G 3/8 - G 1/2 ► suitable for ATEX

Dimensions



A1 = input
A2 = output
1) Adjustment screw lock
2) Adjustment screw for filling time
3) hand wheel for change-over pressure, lockable

A1	A2	B	C	D	E	F							
G 3/8	G 3/8	63	74	80	63.5	96							
G 1/2	G 1/2	63	74	80	63.5	96							

Filling valve, pneumatically operated, Series AS3-SSV

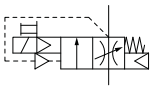
► Poppet valve with elect. priority circuit, Electr. connection: M12x1 electrical connector ► G 1/2 - G 3/8 ► pipe connection

00134293_a

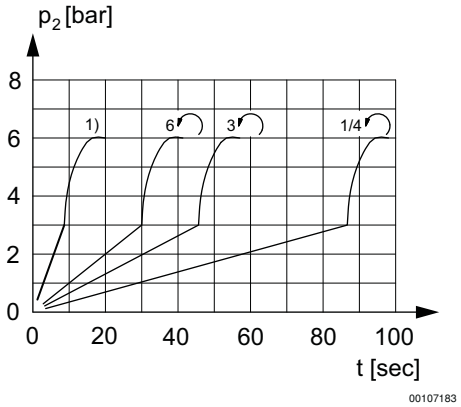
Version	Poppet valve with elect. priority circuit, Can be assembled into blocks
Working pressure min./max.	2.5 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class,withPlug	IP65
Einschaltdauer	100 %
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.

	Port	Qn [l/min]	Weight [kg]	Part No.
	G 1/2	4500	0.43	**R412007389**
	G 3/8			R412007390
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar				

Secondary pressure while filling



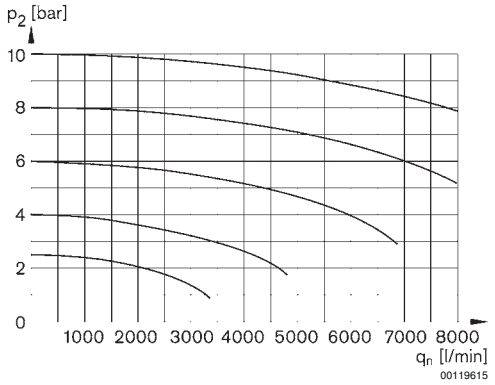
00107183

adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

Filling valve, pneumatically operated, Series AS3-SSV

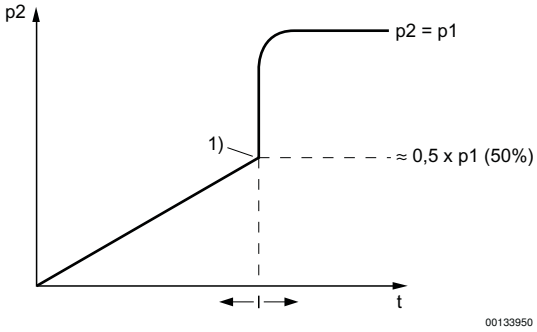
► Poppet valve with elect. priority circuit, Electr. connection: M12x1 electrical connector ► G 1/2 - G 3/8 ► pipe connection

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Start function

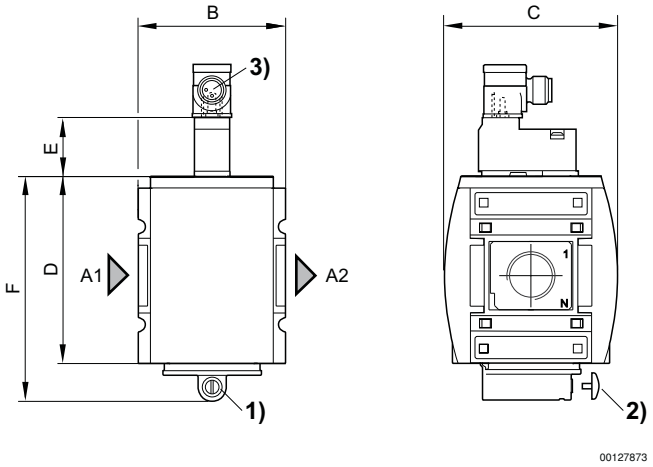


p1 = working pressure
p2 = output pressure
t = adjustable filling time
1) Switching point

Filling valve, pneumatically operated, Series AS3-SSV

► Poppet valve with elect. priority circuit, Electr. connection: M12x1 electrical connector ► G 1/2 - G 3/8 ► pipe connection

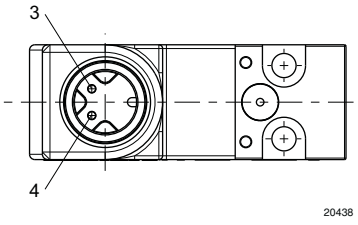
Dimensions



A1 = input
A2 = output
1) Adjustment screw for filling time
2) Adjustment screw lock
3) For electrical connector M12x1

A1	A2	B	C	D	E	F							
G 1/2	G 1/2	63	74	80	39	96							
G 3/8	G 3/8	63	74	80	39	96							

Pin assignment M12x1



3: +/-
4: +/-

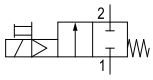
2/2-directional valve, electrically operated, Series AS3-SOV
► G 3/8 - G 1/2 ► pipe connection


00133928_a

Version	Poppet valve, Can be assembled into blocks
Nominal flow	4500 l/min
Working pressure min./max.	2.5 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class, with Plug Mounted	IP65
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

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

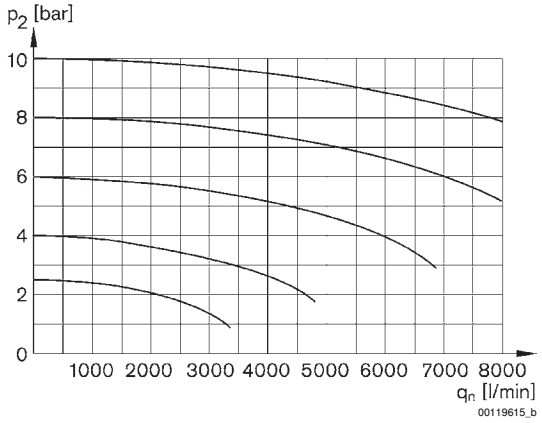
Operational voltage	Power consumption
DC	DC
	W
24 V	2

		Port	Operational voltage	Electr. connection	Weight	Fig.	Part No.
			DC				
					[kg]		
		G 3/8	24 V	Plug, ISO 15217, form C	0.609	Fig. 1	R412007341
		G 3/8		Plug, M12	0.61	Fig. 2	R412007342
		G 1/2		Plug, ISO 15217, form C	0.459	Fig. 1	**R415011113**
		G 1/2		Plug, M12	0.6	Fig. 2	R412007343
Basic valve with pilot valve Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar							

2/2-directional valve, electrically operated, Series AS3-SOV

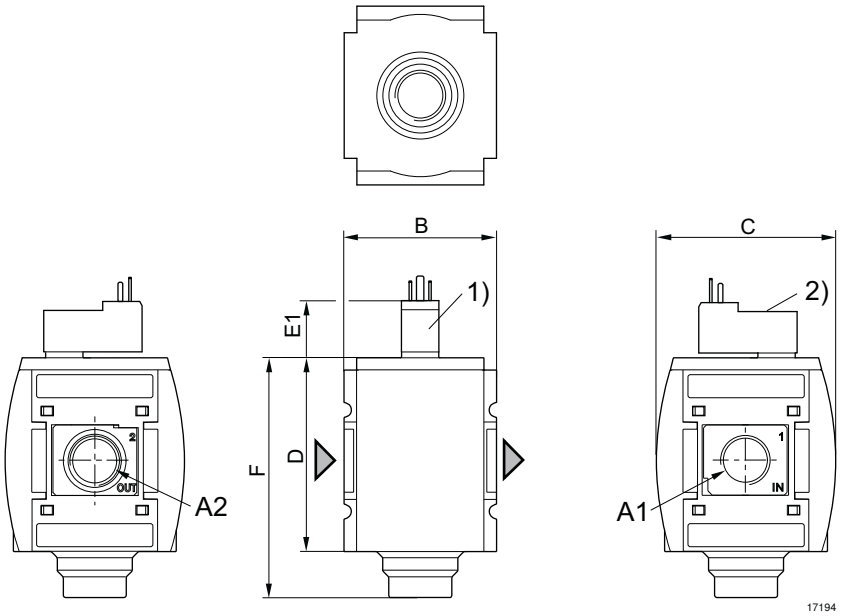
► G 3/8 - G 1/2 ► pipe connection

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Fig. 1: 2/2-directional valve with pilot valve and port for electrical connector form C



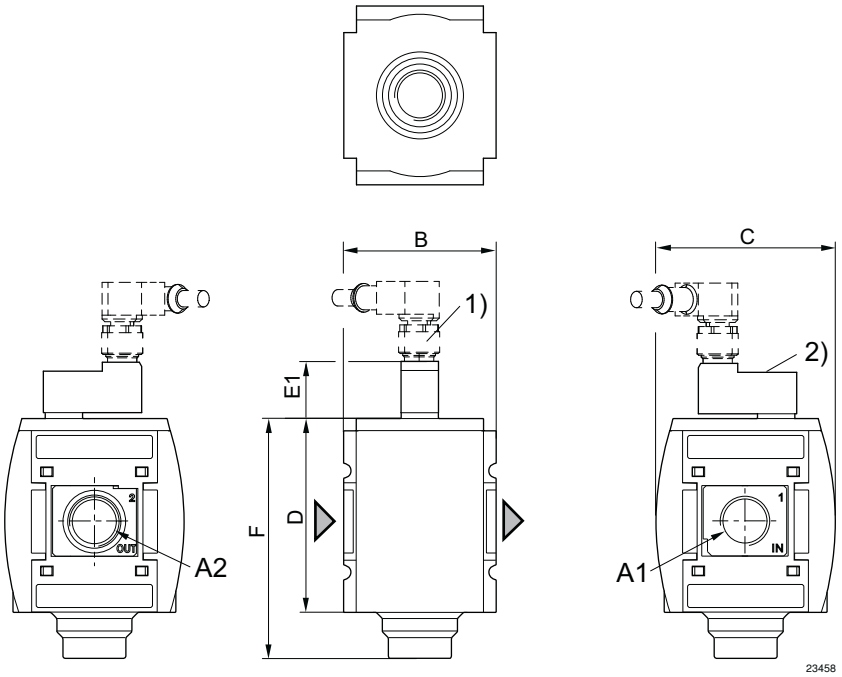
A1 = input
A2 = output
1) Port for electrical connector according to ISO 15217 (form C)
2) Manual override

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

2/2-directional valve, electrically operated, Series AS3-SOV

► G 3/8 - G 1/2 ► pipe connection

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



A1 = input
A2 = output
1) plug M12
2) Manual override

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

3/2-directional valve, electrically operated, Series AS3-SOV

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

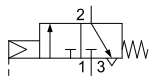
00133928_b

Version	Poppet valve, Can be assembled into blocks
Nominal flow	4500 l/min
Nominal flow, 1►2	4500 l/min
Nominal flow, 2►3	3200 l/min
Working pressure min./max.	2.5 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class, with Plug Mounted	IP65
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks

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

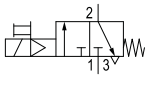
Operational voltage			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
			W	VA	VA	VA	VA
24 V	-	-	2	-	-	-	-
-	110 V	110 V	-	2.2	1.6	1.6	1.4
-	220 V	230 V	-	2.2	1.6	1.6	1.4

		Port	Exhaust	Operational voltage			Electr. connection	Weight	Fig.	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz					
								[kg]			
	-	G 3/8	G 1/2	-	-	-	-	0.459	Fig. 1	1); 4)	R412007264
		G 1/2							Fig. 1	1); 4)	**R412007268**
		G 3/8							Fig. 2	2); 4)	**R412007258**
		G 1/2							Fig. 2	2); 4)	**R412007259**

1) Basic valve without pilot valve
2) Basic valve without pilot valve, with CNOMO subbase
3) Basic valve with pilot valve
4) ATEX optional
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

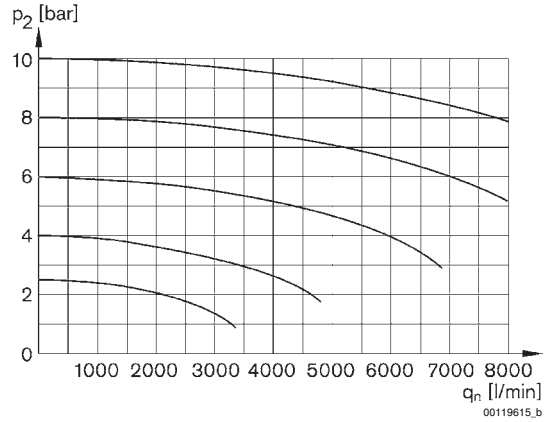
3/2-directional valve, electrically operated, Series AS3-SOV

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

		Port	Exhaust	Operational voltage			Electr. connection	Weight	Fig.	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz					
								[kg]			
		G 3/8	G 1/2	24 V	-	-	Plug, ISO 15217, form C	0.459	Fig. 3	3)	**R412007265**
		G 3/8		24 V	-	-	Plug, M12x1		Fig. 4		R412007397
		G 3/8		-	110 V	110 V	Plug, ISO 15217, form C		Fig. 3		R412007266
		G 3/8		-	220 V	230 V	Plug, ISO 15217, form C		Fig. 3		**R412007267**
		G 1/2		24 V	-	-	Plug, ISO 15217, form C		Fig. 3		**R412007269**
		G 1/2		-	110 V	110 V	Plug, ISO 15217, form C		Fig. 3		**R412007270**
		G 1/2		-	220 V	230 V	Plug, ISO 15217, form C		Fig. 3		**R412007271**
		G 1/2		24 V	-	-	Plug, M12x1		Fig. 4		**R412007391**

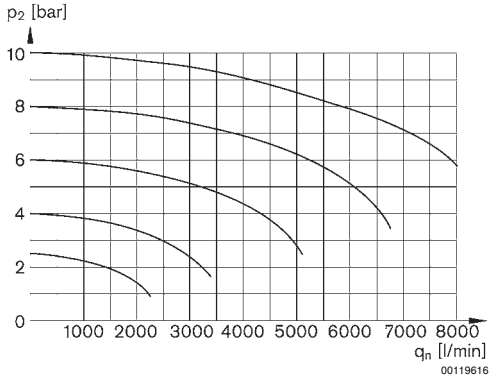
1) Basic valve without pilot valve
2) Basic valve without pilot valve, with CNOMO subbase
3) Basic valve with pilot valve
4) ATEX optional
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Rear exhaust

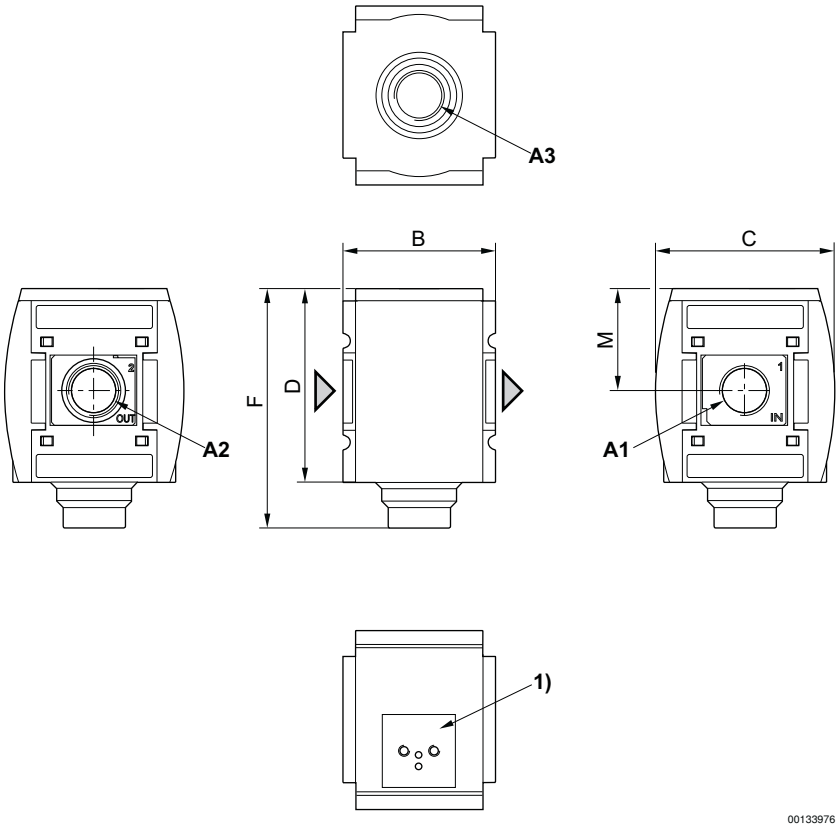


p2 = secondary pressure
qn = nominal flow

3/2-directional valve, electrically operated, Series AS3-SOV

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

Fig. 1: 3/2-directional valve without pilot valve with porting configuration for series DO16



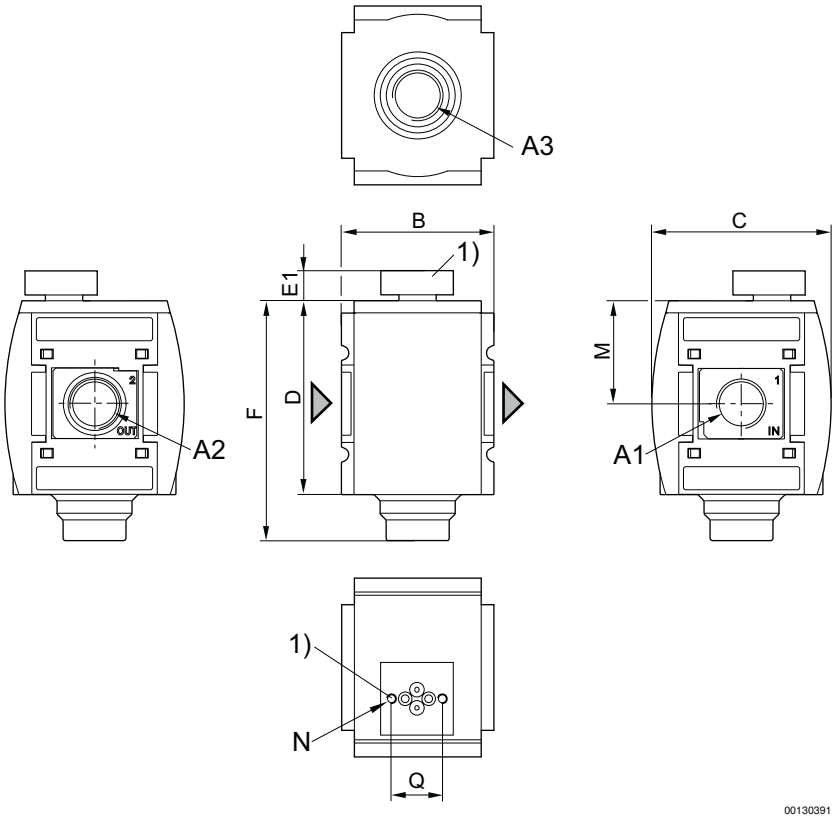
A1 = input
A2 = output
A3 = ventilation port
1) For pilot valve series DO16

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

3/2-directional valve, electrically operated, Series AS3-SOV

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

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



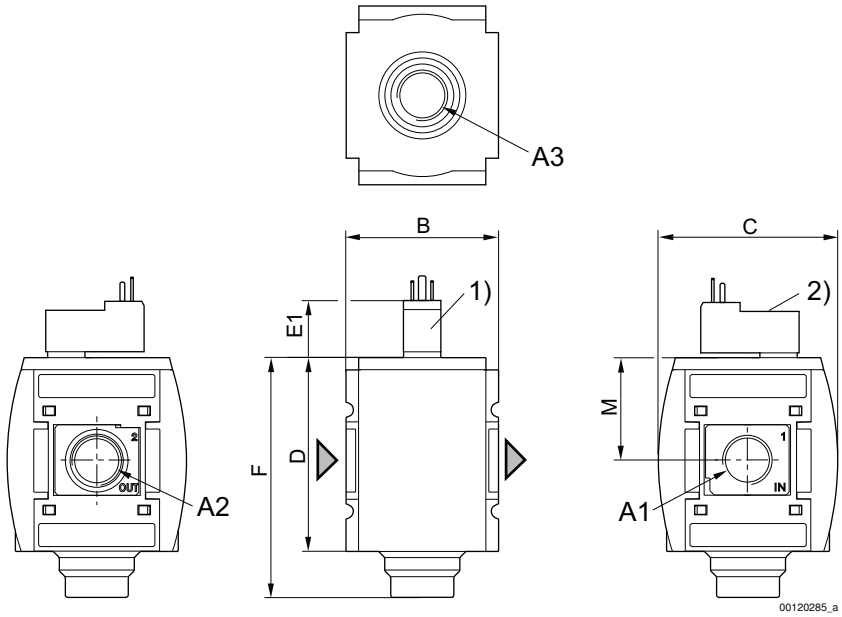
A1 = input
A2 = output
A3 = ventilation port
1) Transition plate with CNOMO porting configuration for pilot valve DO30

A1	A2	A3	B	C	D	E1	F	M	N	Q			
G 3/8	G 3/8	G 1/2	63	74	80	12.3	99	42.5	M4	21			
G 1/2	G 1/2	G 1/2	63	74	80	12.3	99	42.5	M4	21			

3/2-directional valve, electrically operated, Series AS3-SOV

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

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



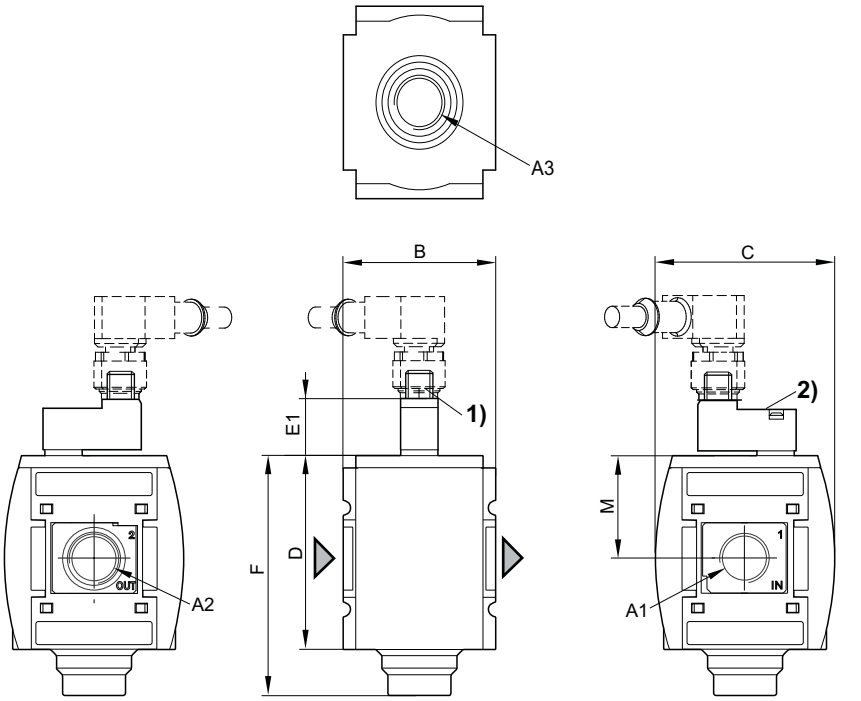
A1 = input
A2 = output
A3 = ventilation port
1) Port for electrical connector according to ISO 15217 (form C)
2) Manual override

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

3/2-directional valve, electrically operated, Series AS3-SOV

► ATEX optional ► G 3/8 - G 1/2 ► pipe connection

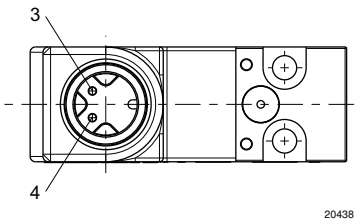
Fig. 4: 3/2-directional valve with pilot valve and electrical connector for plug



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

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

Pin assignment M12x1



3: +/-
4: +/-

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

► With integrated sensor ST6 ► G 3/8 - G 1/2 ► pipe connection

00133928_c

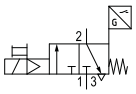
Version	Poppet valve, Can be assembled into blocks
Nominal flow	4500 l/min
Nominal flow, 1►2	4500 l/min
Nominal flow, 2►3	3200 l/min
Working pressure min./max.	2.5 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Sealing principle	Soft sealing
Max. particle size	25 µm
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
■ Can be used in circuits with increased efficiency.
■ An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).
■ The sensor signal is visible on the front of the cover

Operational voltage	Power consumption
DC	DC
	W
24 V	2

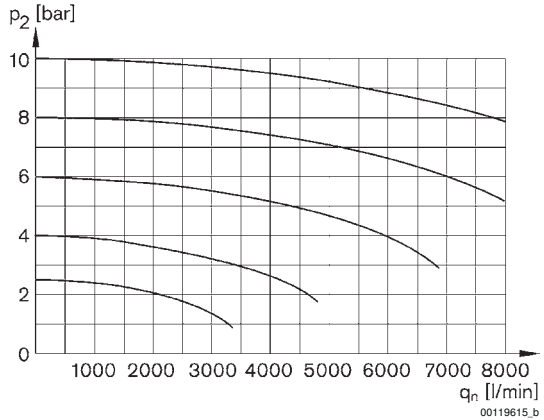
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

► With integrated sensor ST6 ► G 3/8 - G 1/2 ► pipe connection

		Port	Exhaust	Oper-	Electr. connection	Electr. connection Sensor	Weight	Fig.	Note	Part No.
				DC						
							[kg]			
	⊢	G 3/8	G 1/2	24 V	Plug, ISO 15217, form C	Plug, M8, 3-pin, with knurled screw	0.459	Fig. 2	1)	R412007359
		G 3/8			Plug, ISO 15217, form C	Plug, M12, 3-pin, with knurled screw		Fig. 2		R412007336
		G 3/8			Plug, ISO 15217, form C	without wire end ferrule, tin-plated		Fig. 2		R412007377
		G 3/8			Socket, M12x1	Plug, M8, 3-pin, with knurled screw		Fig. 3		R412007353
		G 3/8			Socket, M12x1	Plug, M12, 3-pin, with knurled screw		Fig. 3		R412007355
		G 3/8			Socket, M12x1	without wire end ferrule, tin-plated		Fig. 3		R412007396
		G 1/2			Plug, ISO 15217, form C	Plug, M8, 3-pin, with knurled screw		Fig. 2		**R412007360**
		G 1/2			Plug, ISO 15217, form C	Plug, M12, 3-pin, with knurled screw		Fig. 2		R412007337
		G 1/2			Plug, ISO 15217, form C	without wire end ferrule, tin-plated		Fig. 2		**R412007383**
		G 1/2			Socket, M12x1	Plug, M8, 3-pin, with knurled screw		Fig. 3		**R412007354**
		G 1/2			Socket, M12x1	Plug, M12, 3-pin, with knurled screw		Fig. 3		R412007356
		G 1/2			Socket, M12x1	without wire end ferrule, tin-plated		Fig. 3		**R412007398**
	-	G 3/8	G 1/2	-	-	without wire end ferrule, tin-plated	0.459	Fig. 1	2)	R412007381
		G 1/2								R412007387

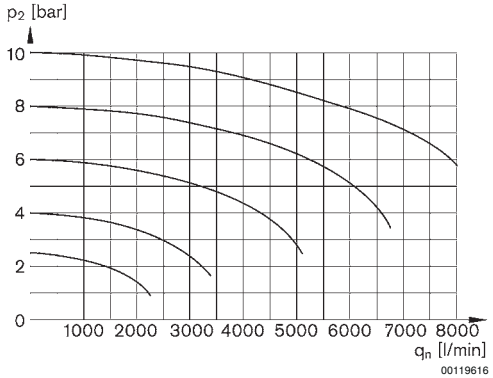
1) Basic valve with pilot valve
2) Basic valve without pilot valve
Electronic sensor included in scope of delivery (assembled).
For sensor connection, see the selection table.
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Rear exhaust

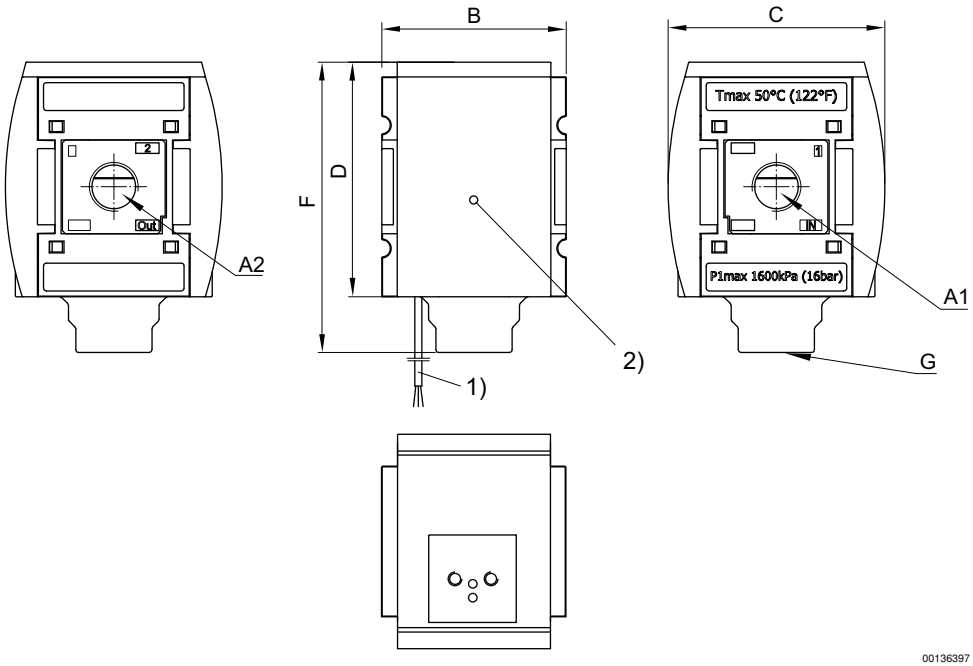


p2 = secondary pressure
qn = nominal flow

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

► With integrated sensor ST6 ► G 3/8 - G 1/2 ► pipe connection

Fig. 1: 3/2-directional valve without pilot valve with porting configuration for series DO16



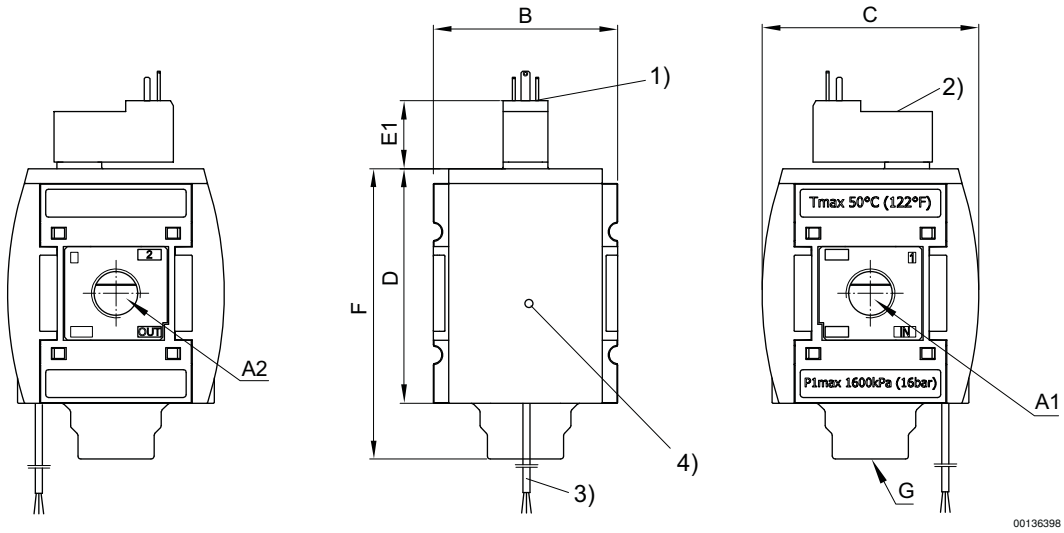
A1 = input
A2 = output
1) For version with sensor: cable length 3 m PUR.
2) Optical switch status indicator

A1	A2	B	C	D	F	G							
G 3/8	G3/8	63	74	80	99	G1/2							
G 1/2	G1/2	63	74	80	99	G1/2							

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

► With integrated sensor ST6 ► G 3/8 - G 1/2 ► pipe connection

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



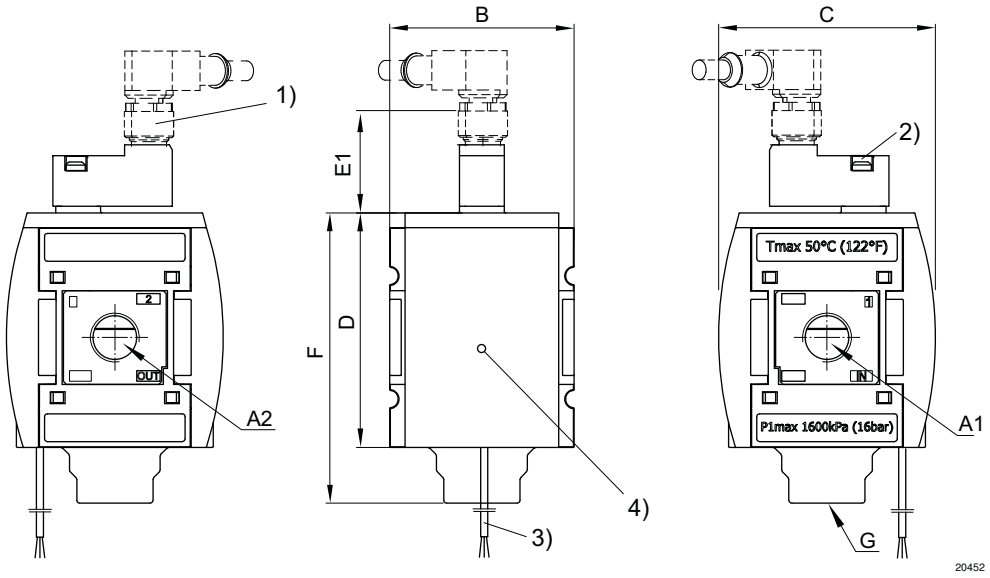
A1 = input
A2 = output
1) Electr. connection: electrical connector form C, ISO 15217
2) Manual override
3) For version with sensor: cable length 3 m PUR.
4) Optical switch status indicator

A1	A2	B	C	D	E1	F	G						
G 3/8	G3/8	63	74	80	23.2	99	G1/2						
G 1/2	G1/2	63	74	80	23.2	99	G1/2						

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

► With integrated sensor ST6 ► G 3/8 - G 1/2 ► pipe connection

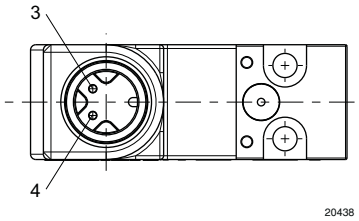
Fig. 3: 3/2-directional valve with pilot valve, push-in fitting M12x1



A1 = input
A2 = output
1) plug M12
2) Manual override
3) For version with sensor: cable length 3 m PUR.
4) Optical switch status indicator

A1	A2	B	C	D	E1	F	G						
G 3/8	G3/8	63	74	80	39	99	G1/2						
G 1/2	G1/2	63	74	80	39	99	G1/2						

Pin assignment M12x1



3: +/-
4: +/-

3/2-directional valve, pneumatically operated, Series AS3-SOV

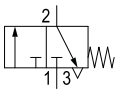
► G 3/8 - G 1/2 ► pipe connection ► suitable for ATEX

00119377

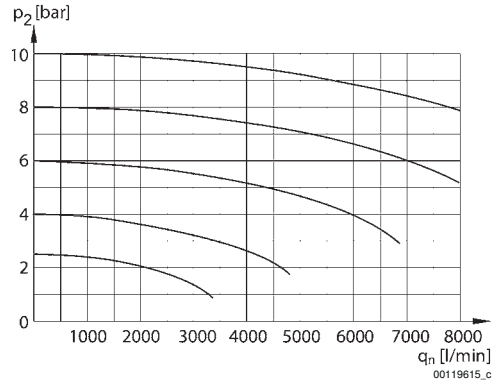
Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Sealing principle	Soft sealing
Control pressure min./max.	2.5 bar / 16 bar
Materials: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

Technical Remarks

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

	Port	Exhaust	Qn			Weight	Part No.
				1►2	2►3		
					[l/min]	[kg]	
	G 3/8	G 1/2	4500	4500	3200	0.459	**R412007262**
	G 1/2						**R412007263**
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar							

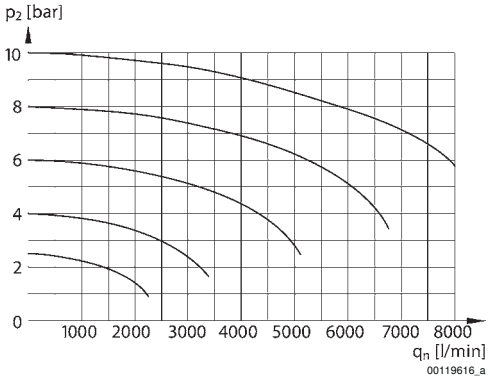
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

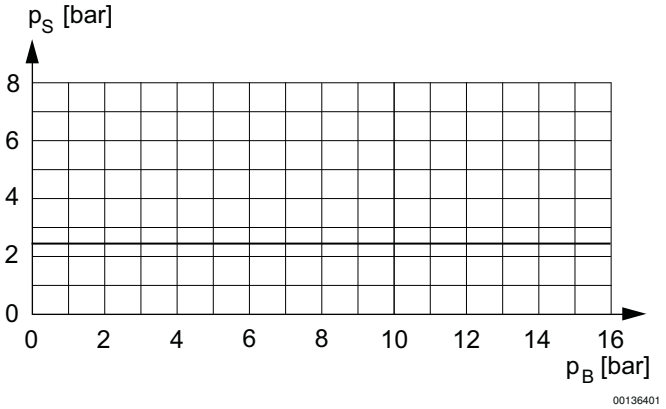
3/2-directional valve, pneumatically operated, Series AS3-SOV
► G 3/8 - G 1/2 ► pipe connection ► suitable for ATEX

Rear exhaust



p2 = secondary pressure
qn = nominal flow

control pressure characteristic

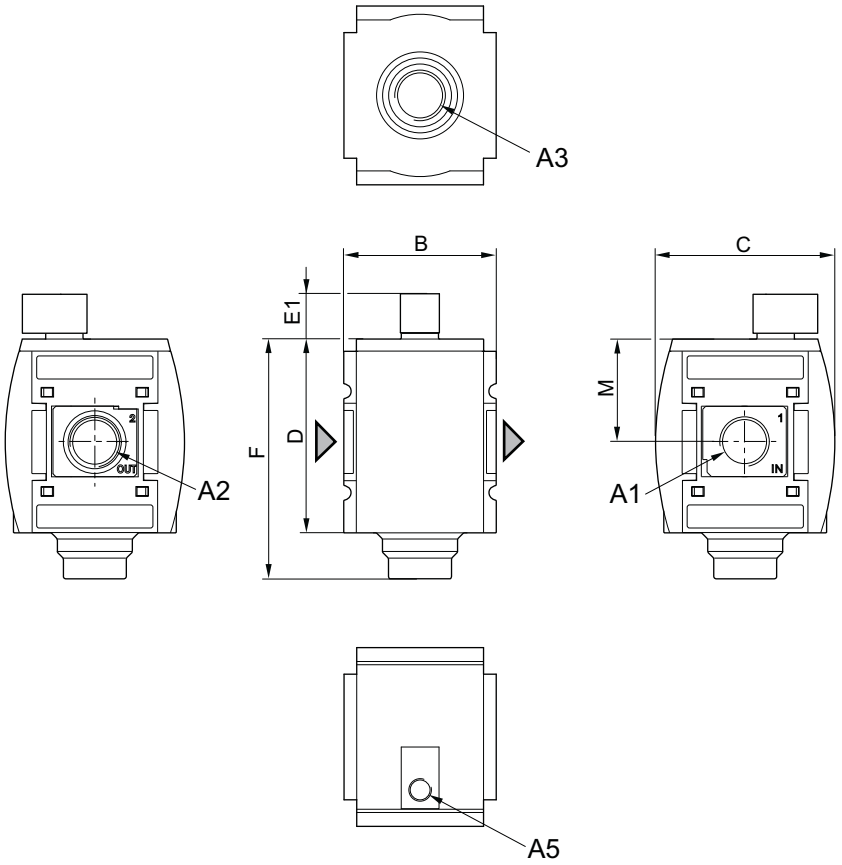


minimum pilot pressure depending on working pressure
PS = control pressure
P_B = Working pressure

3/2-directional valve, pneumatically operated, Series AS3-SOV

► G 3/8 - G 1/2 ► pipe connection ► suitable for ATEX

Dimensions



A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection

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		
R412007263	G 1/2	G 1/2	G 1/2	G 1/8	63	74	80	18.5	99	42.5		

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

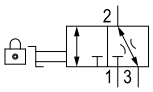
► G 3/8 - G 1/2

00127429

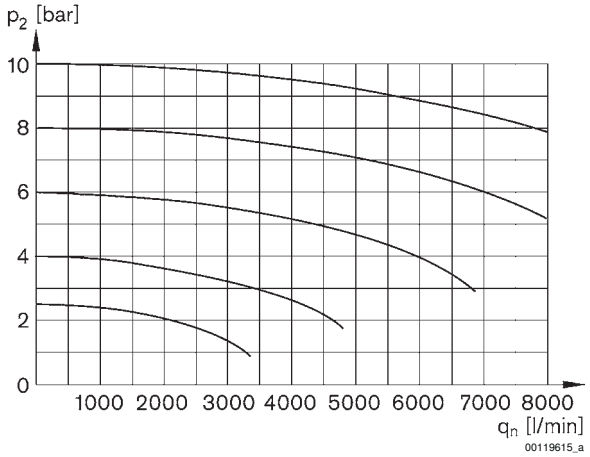
Version	Ball valve, Can be assembled into blocks for padlocks lockable
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +50 °C
Ambient temperature min./max.	-10 °C / +50 °C
Actuating element	rotary switch
Sealing principle	metal/metal sealing
Max. particle size	25 µm
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Polytetrafluorethylene
Threaded bushing	Die cast zinc
Actuating element	Polyoxymethylene
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	G 1/2	4500	3200	0.446	**R412007260**
	G 1/2					**R412007261**
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar						

Flow rate characteristic

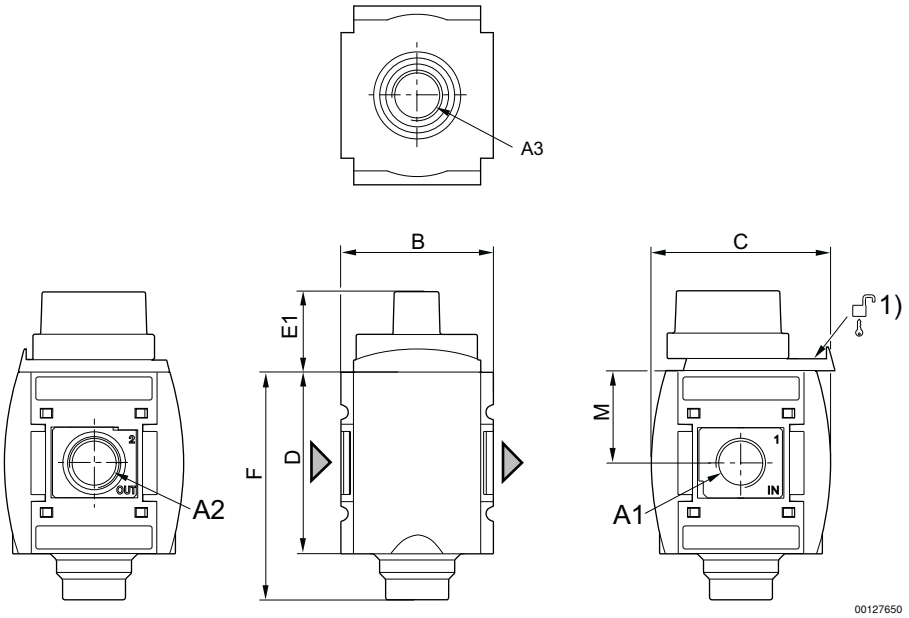


p2 = secondary pressure
qn = nominal flow

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

► G 3/8 - G 1/2

Dimensions



A1 = input
A2 = output
A3 = ventilation port
1) Mounting option for padlocks; max. shackle Ø 8

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

Distributor, Series AS3-DIS

► G 3/8 - G 1/2 ► Distributor 4x ► suitable for ATEX

00119389

Version	Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

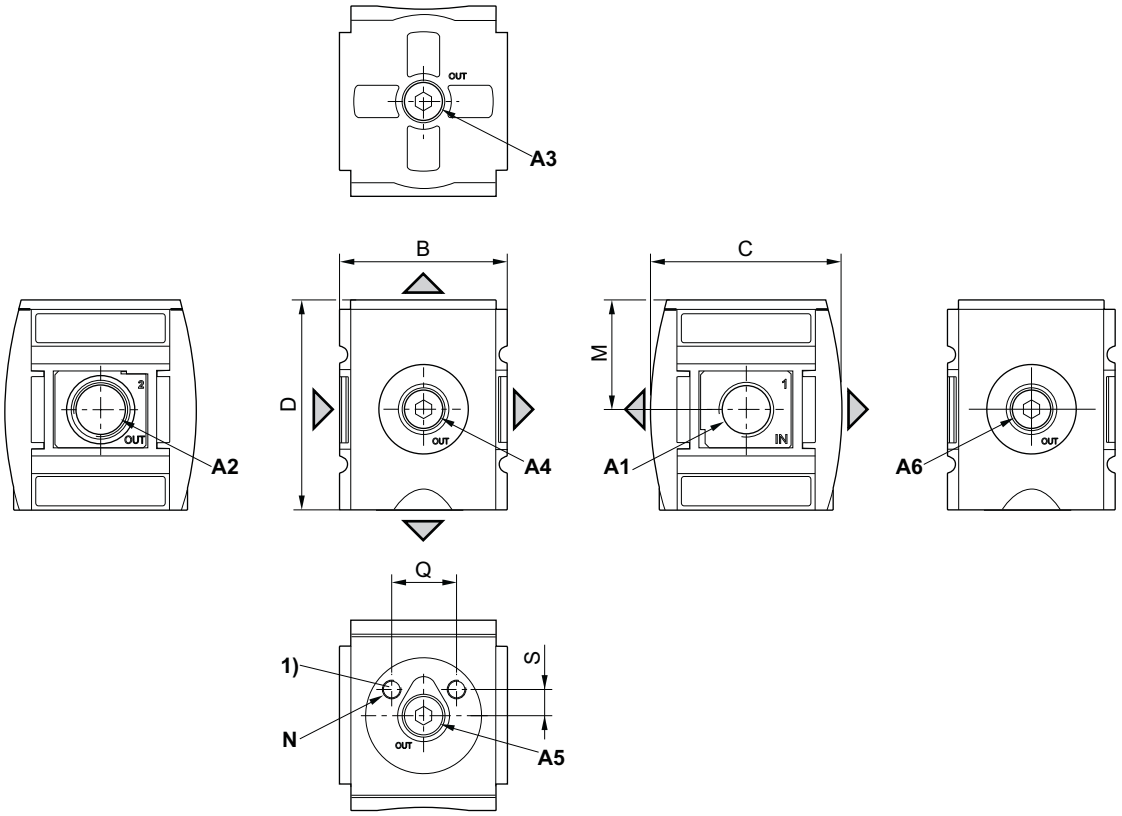
Technical Remarks
■ Suitable for direct mounting of a PE1 and PM1 series pressure sensor (flange version)

	Port	Qn					Weight	Part No.
		1►2	1►3	1►4	1►5	1►6		
		[l/min]					[kg]	
	G 3/8	7250	5500	2300	2250	2300	0.32	**R412007250**
	G 1/2							**R412007251**
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar								

Distributor, Series AS3-DIS

► G 3/8 - G 1/2 ► Distributor 4x ► suitable for ATEX

Dimensions



A1 = input
A2 = output
A3 = output
A4 = output
A5 = output
A6 = output
1) Mounting thread for pressure sensor

A1	A2	A3	A4	A5	A6	B	C	D	M	N	Q	S	
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	
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	

Distributor, Series AS3-DIN

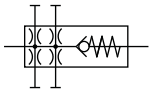
► G 3/8 - G 1/2 ► Distributor 4x ► Non-return valve ► suitable for ATEX

00119389

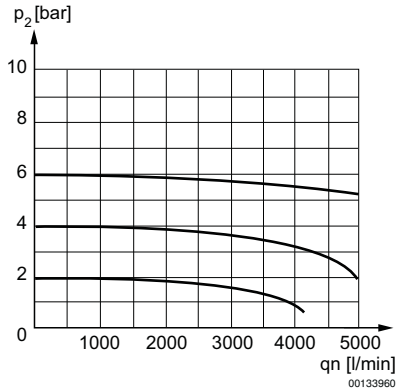
Version	Non-return valve, Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0.4 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks

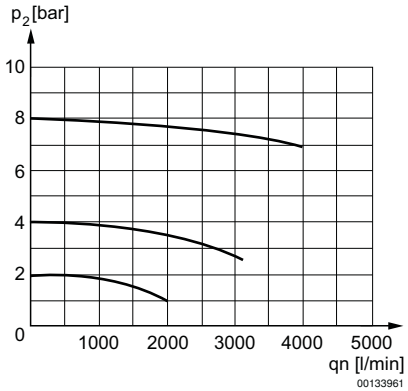
- 4 auxiliary air exits upstream of non-return valve.

	Port	Qn					Weight	Part No.
		1►2	1►3	1►4	1►5	1►6		
		[l/min]					[kg]	
	G 3/8	5100	3300	2250	2250	2250	0.32	R412007254
	G 1/2							**R412007255**
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar								

Flow rate characteristic



Nominal flow 1 ► 2
p2 = secondary pressure
qn = nominal flow

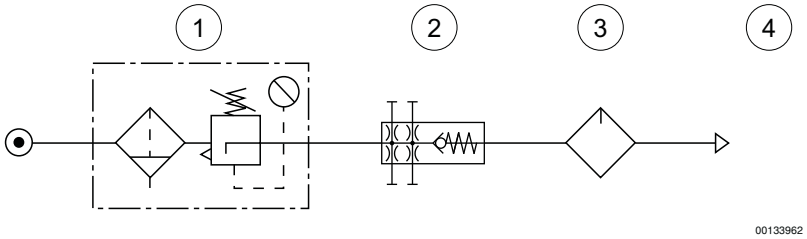


Nominal flow 1 -> 3
p2 = secondary pressure
qn = nominal flow

Distributor, Series AS3-DIN

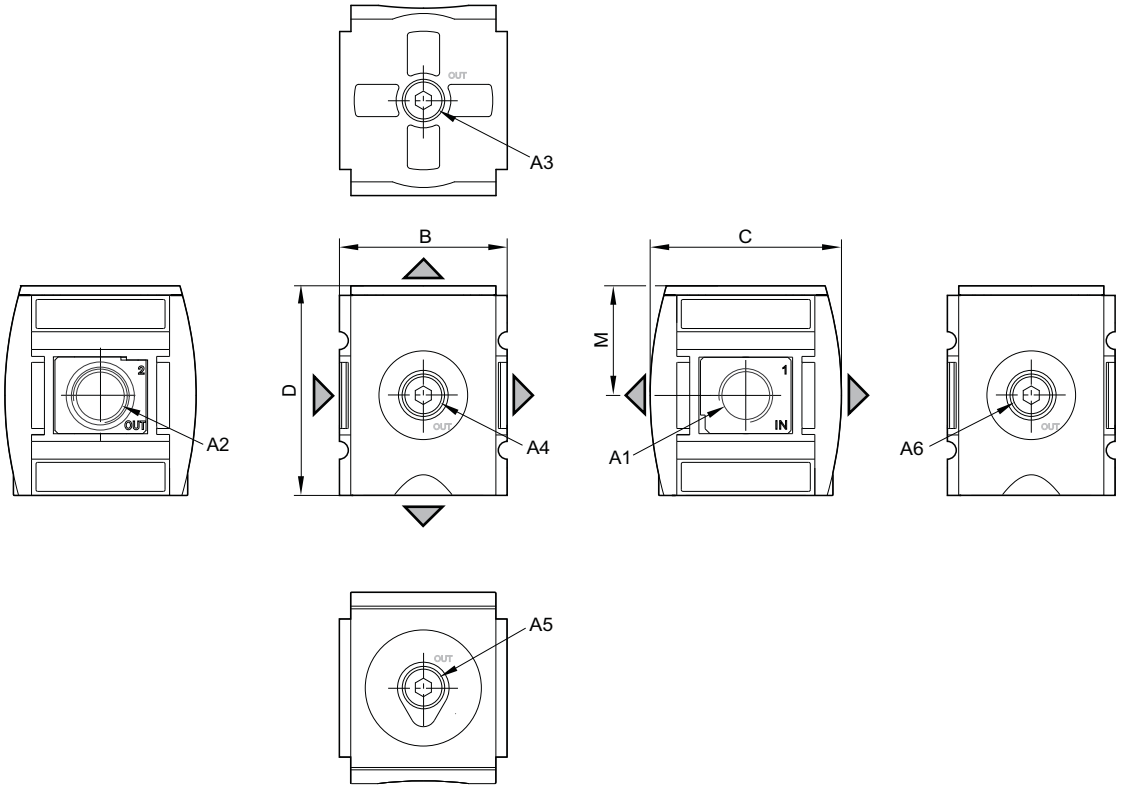
► G 3/8 - G 1/2 ► Distributor 4x ► Non-return valve ► suitable for ATEX

usage



1) Filter pressure regulator
2) Non-return valve
3) Lubricator
4) Compressed air

Dimensions



A1 = input
A2 = output
A3 = output
A4 = output
A5 = output
A6 = output

A1	A2	A3	A4	A5	A6	B	C	D	M				
G 3/8	G 3/8	G 1/2	G 3/8	G 1/4	G 3/8	63	74	80	42.5				
G 1/2	G 1/2	G 1/2	G 3/8	G 1/4	G 3/8	63	74	80	42.5				

Distributor, Series AS3-DIC

► G 1/2 ► Distributor 4x ► Center infeed ► suitable for ATEX

00119389

Version	Center infeed, Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

Technical Remarks

- Suitable for direct mounting of a PE1 and PM1 series pressure sensor (flange version)
- Additional air supply possible at connections A4 and A5.

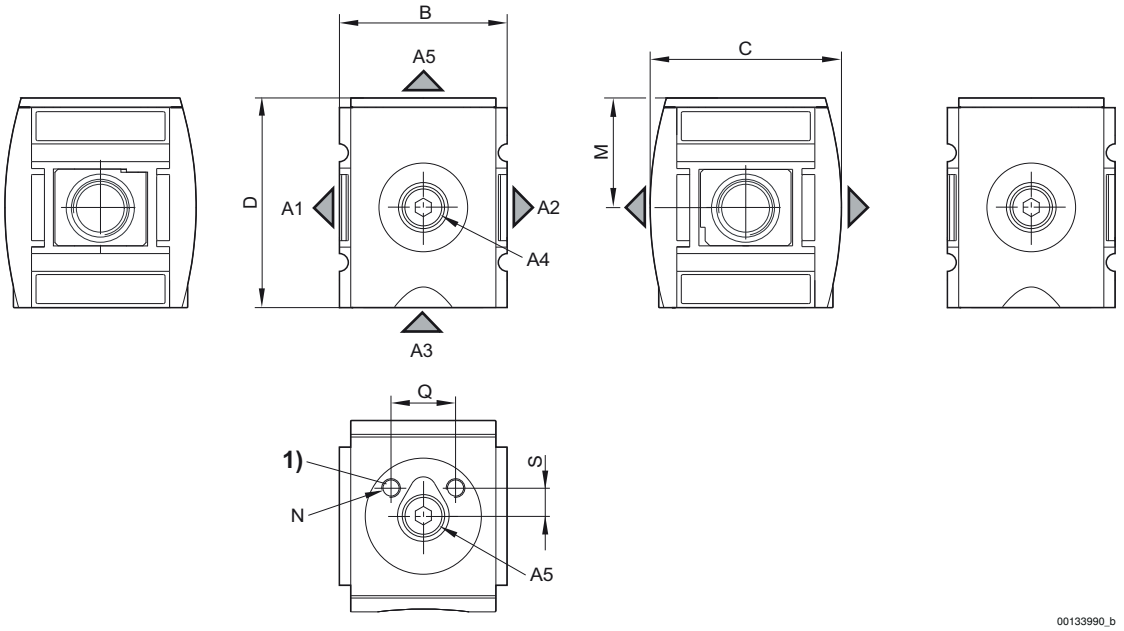
	Port	Qn		Weight	Part No.
		1►2	1►3		
		[l/min]		[kg]	
	G 1/2	10300	10300	0.32	**R412007249**

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

Distributor, Series AS3-DIC

► G 1/2 ► Distributor 4x ► Center infeed ► suitable for ATEX

Dimensions



A1 = output
A2 = output
A3 = input/output
A4 = output
A5 = input/output
1) Mounting thread for pressure sensor

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

Series AS3
Accessories

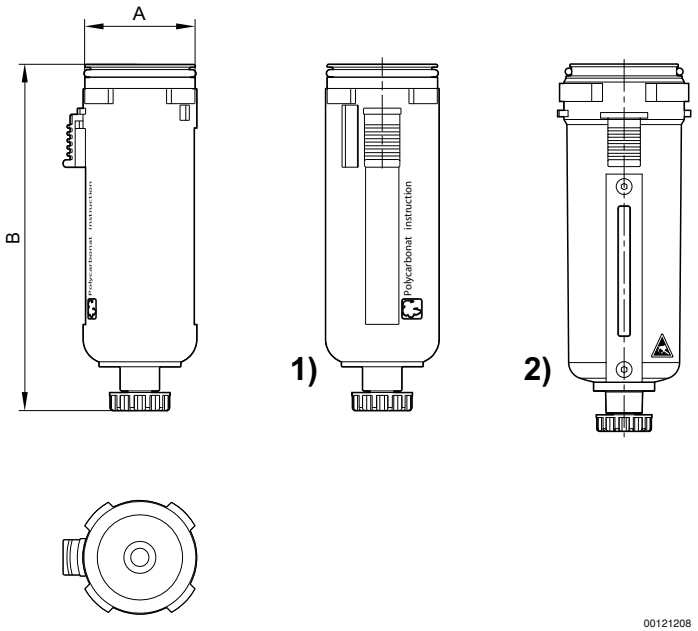
Reservoir, Series AS3-CLS/ -CLP/ -CLC
► for filters, pre-filters and microfilters ► Material: Polycarbonate, Die cast zinc ► with window

00119625

Version	Reservoir
Ambient temperature min./max.	-10°C / +50°C
Medium temperature min./max.	-10°C / +50°C
Working pressure min./max.	16 bar
Medium	Compressed air
Filter reservoir volume	49 cm³
Materials:	
Seal	Acrylonitrile Butadiene Rubber

Condensate drain	Reservoir	Protective guard	Weight	Fig.	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, with window	-	0.338	Fig. 1	**R412007344**
fully automatic, open without pressure	Die cast zinc, with window	-	0.39	Fig. 2	**R412007345**
fully automatic, closed without pressure	Die cast zinc, with window	-	0.39	Fig. 2	**R412007346**

Fig. 1



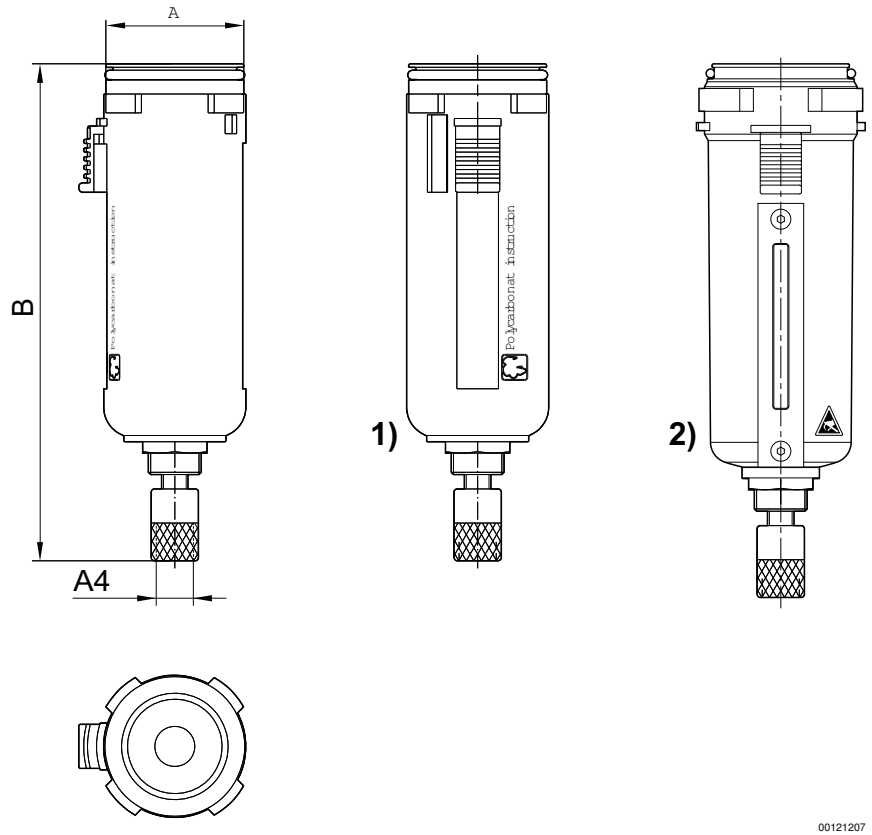
00121208

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

Series AS3
Accessories

Part No.		A	B								
R412007338	G3/8 – G1/2	43.8	128.5								
R412007344	G3/8 – G1/2	43.8	132.5								

Fig. 2



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								

Series AS3
Accessories

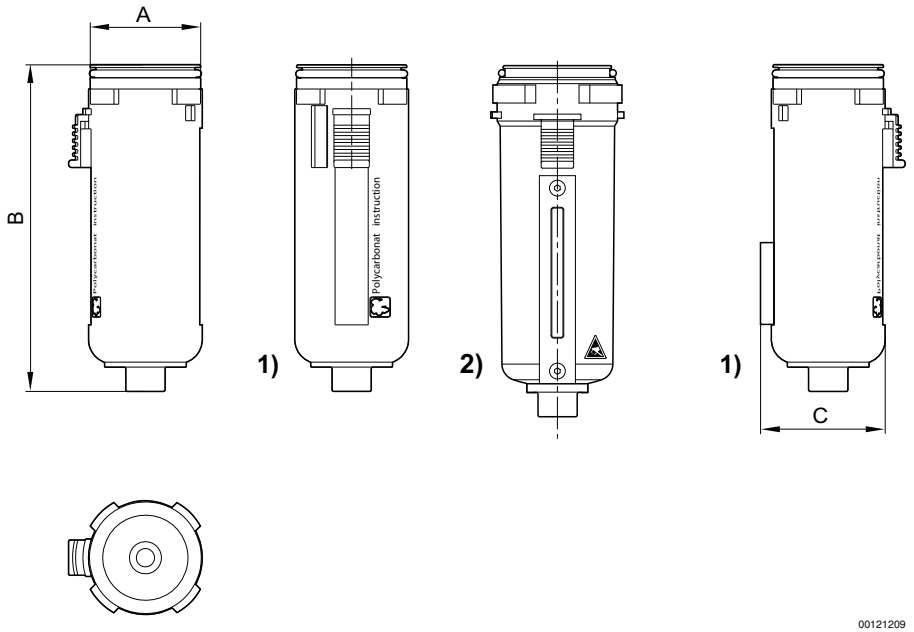
Reservoir, Series AS3-CLA
► for active carbon filter ► Material: Polycarbonate, Die cast zinc ► with window

00127790

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
Filter reservoir volume	49 cm³
Materials:	
Seal	Acrylonitrile Butadiene Rubber

Reservoir	Protective guard	Weight	Part No.
		[kg]	
Polycarbonate	Polyamide	0.086	R412007347
Die cast zinc, with window	-	0.338	R412007349

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										

Series AS3
Accessories

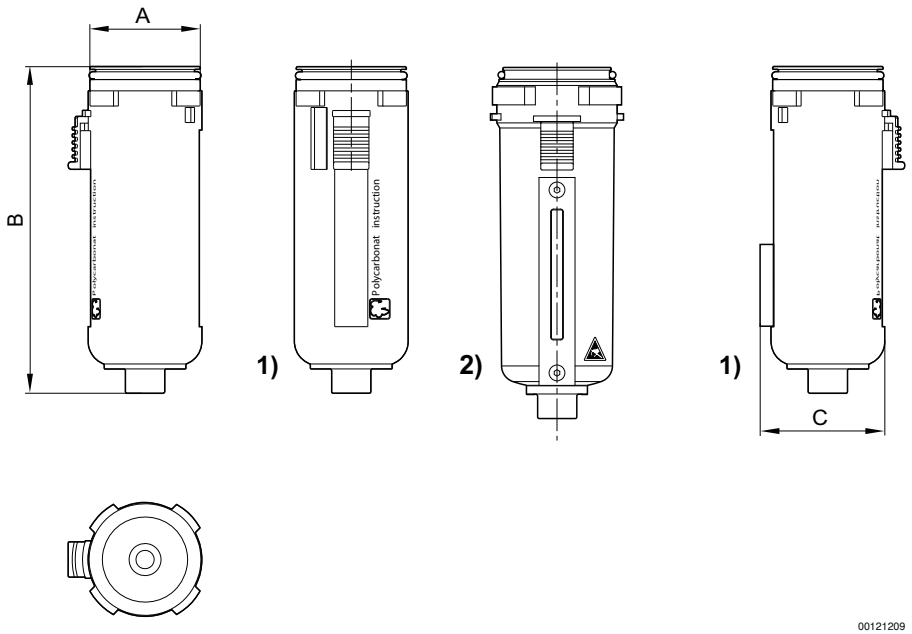
Reservoir, Series AS3-CBS
► for lubricator ► Material: Polycarbonate, Die cast zinc ► with window

00127790

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

Electrical level detection	Reservoir	Protective guard	Weight	Part No.
			[kg]	
-	Polycarbonate	Polyamide	0.086	**R412007352**
-	Die cast zinc, with window	-	0.335	R412007358
with external query	Polycarbonate	Polyamide	0.086	R412007351

Dimensions



00121209

1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) with sensor mounting and floater with magnet for level detection

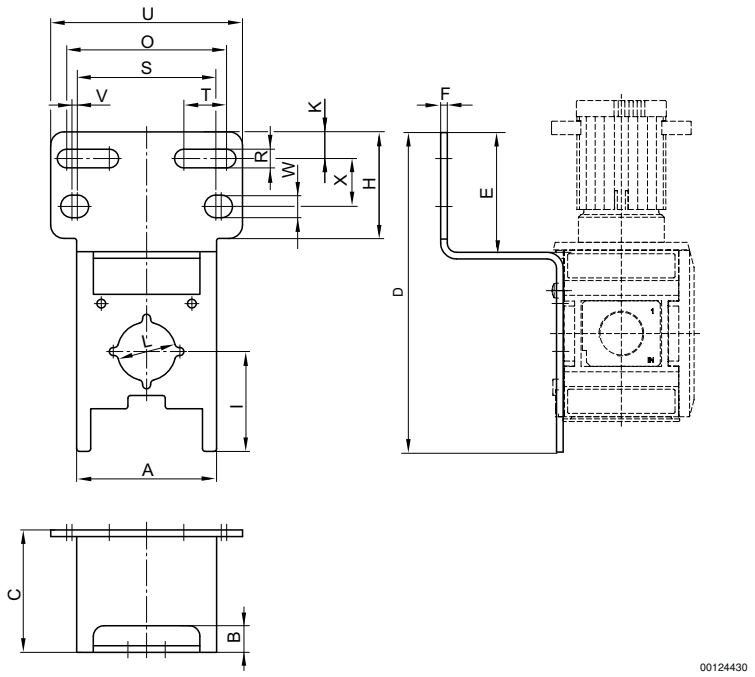
Part No.	A	B	C									
R412007352	43.8	122	—									
R412007358	43.8	126	—									

Series AS3
Accessories

Part No.	A	B	C									
R412007351	43.8	122	48									

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

00124431



00124430

Part No.	A	B	C	D	E	F	H	I	K	O	R	S
R412007368	52.5	10	46	120	45	2.5	40	37.5	10	60	7	52

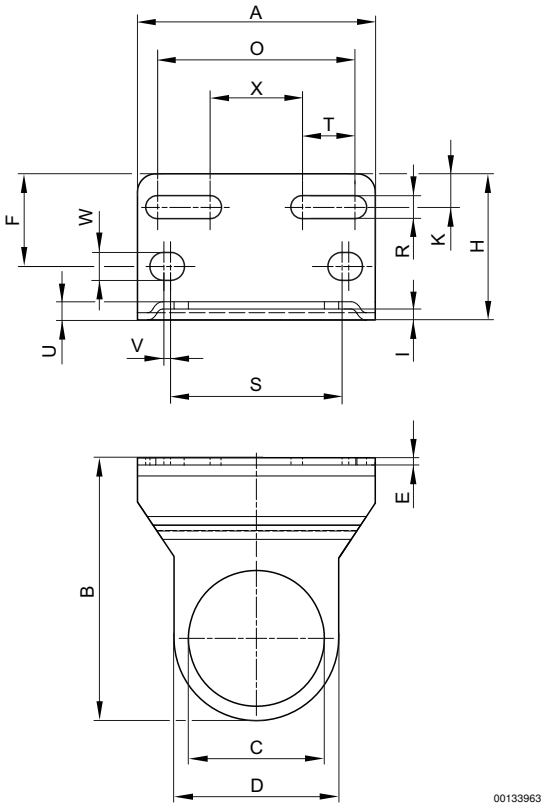
Part No.	T	U	V	W	X	Material	Surface	Material Seal
R412007368	16	72	2	8.5	18	Steel	galvanized	Acrylonitrile Butadiene Rubber

Part No.	Weight [kg]	Ambient temperature min./ max. [C °]									
R412007368	0.13	-10 / +50									
Scope of delivery incl. 2 mounting screws 3x10 (Torx 10 IP) DIN EN ISO 10664											

Series AS3
Accessories

Mounting bracket, Series AS3-MBR-...-W02

00133793



00133963

Part No.	A	B	C	D	E	F	H	I	K	O	R	S
R412007964	72	98	43.2	52	2.5	28	44	4	10	60	7	52

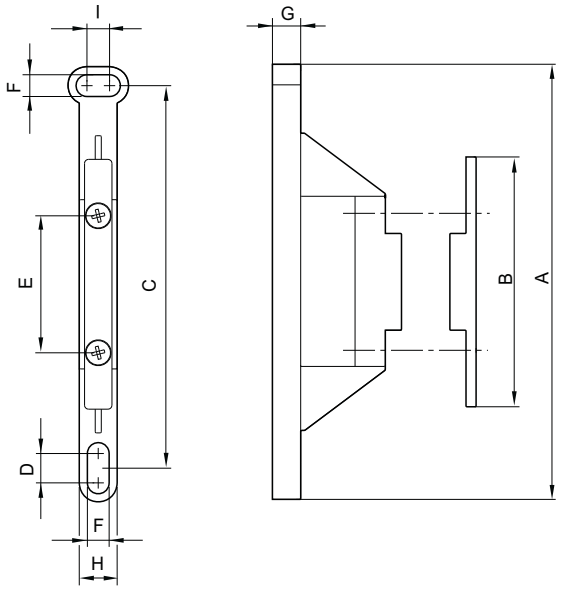
Part No.	T	U	V	W	X	Material	Surface	Weight [kg]
R412007964	16	6.5	2	8.5	28	Steel	galvanized	0.13

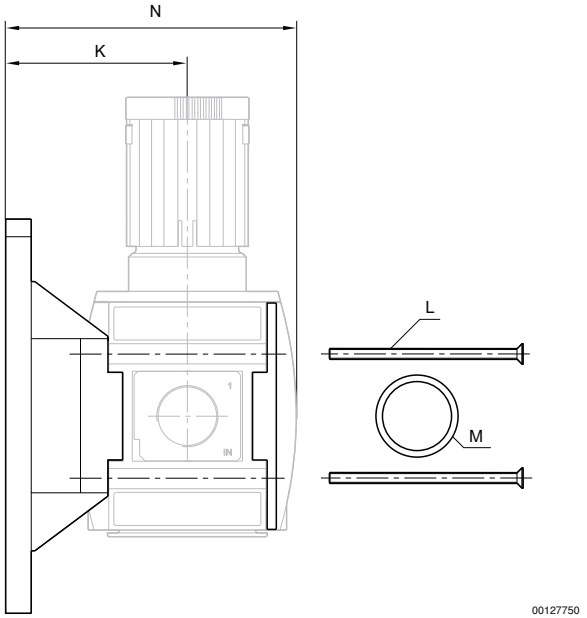
Part No.	Ambient temperature min./ max. [C°]										
R412007964	-10 / +50										
Scope of delivery incl. 2 mounting screws 3x10 (Torx 10 IP) DIN EN ISO 10664											

Series AS3
Accessories

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

00119388





00127750

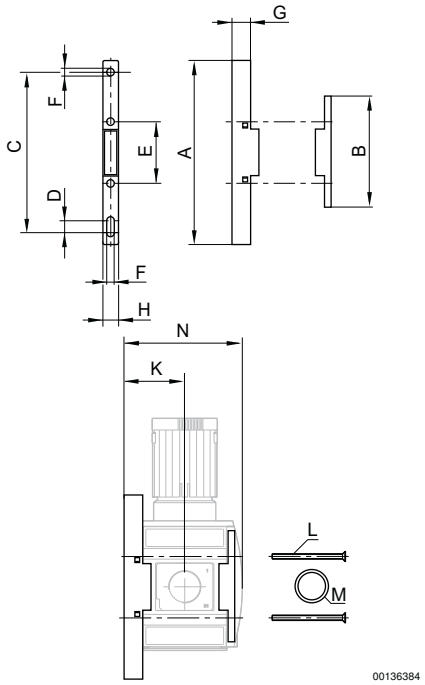
Part No.	A	B	C	D	E	F	G	H	I	K	L
R412007370	120	75	104	8	42	6.4	12	12	8	72	M5x68

Part No.	M	N	Material	Material Seal	Weight [kg]	Ambient temperature min./ max. [C°]	
R412007370	23,1x1,78	109	Polyamide	Acrylonitrile Butadiene Rubber	0.055	-10 / +50	
Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring							

Series AS3
Accessories

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

00136385



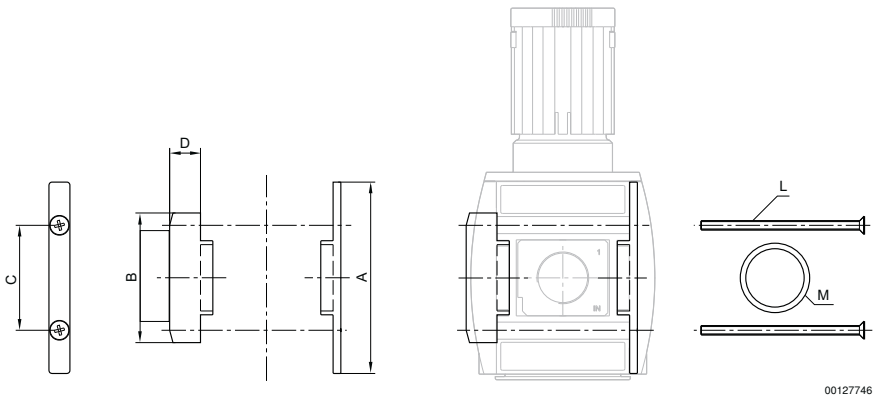
00136384

Part No.	A	B	C	D	E	F	G	H	K	L	M
R412007373	124	75	108	8	42	5.5	12.5	10	38.5	M5x68	23,1x1,78

Part No.	N	Material	Material Seal	Weight [kg]	Ambient temperature min./ max. [C°]			
R412007373	75.5	Polyamide	Acrylonitrile Butadiene Rubber	0.055	-10 / +50			
Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring								

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

00119405



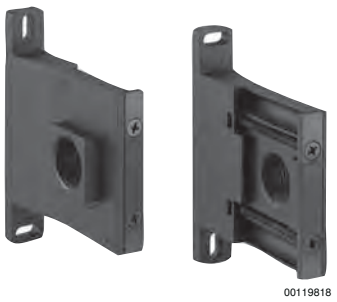
00127746

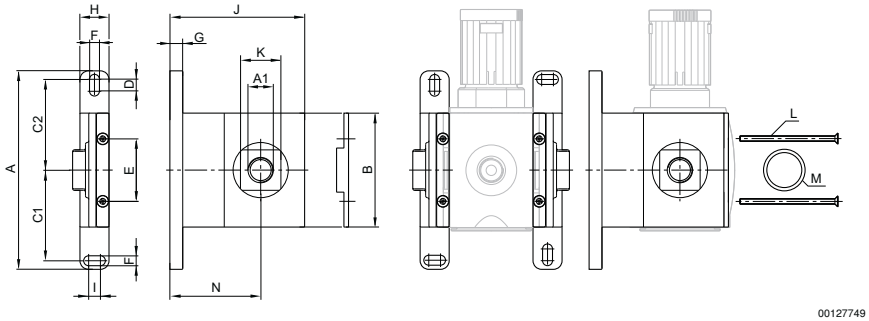
Series AS3
Accessories

Part No.	A	B	C	D	L	M	Material	Material Seal
R412007371	75	75	42	12.5	M5x68	23,1x1,78	Polyamide	Acrylonitrile Butadiene Rubber

Part No.	Weight [kg]	Ambient temperature min./ max. [C°]									
R412007371	0.032	-10 / +50									
Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring											

Block assembly kit, Series AS3-MBR-...-W05
► G 3/8 - G 1/2





Part No.	A1	A	B	C1	C2	D	E	F	G	H	I	J	K	L
R412007366	G 3/8	120	75	54	54	8	42	6.4	7	20	8	102.5	30	M5x68
R412007367	G 1/2	120	75	54	54	8	42	6.4	7	20	8	102.5	30	M5x68

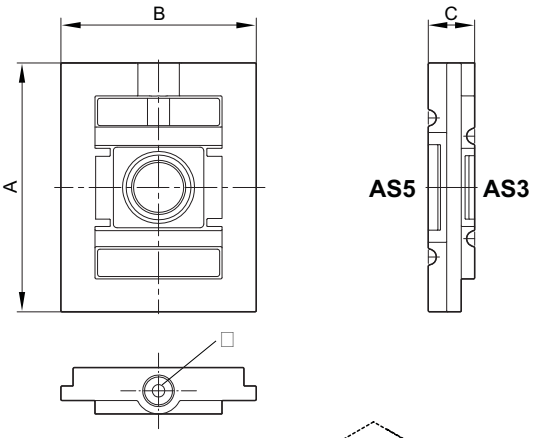
Part No.	M	N	Material	Surface	Material Seal	Weight [kg]
R412007366	23,1x1,78	72	Die cast zinc	painted	Acrylonitrile Butadiene Rubber	0.825
R412007367	23,1x1,78	72	Die cast zinc	painted	Acrylonitrile Butadiene Rubber	0.825

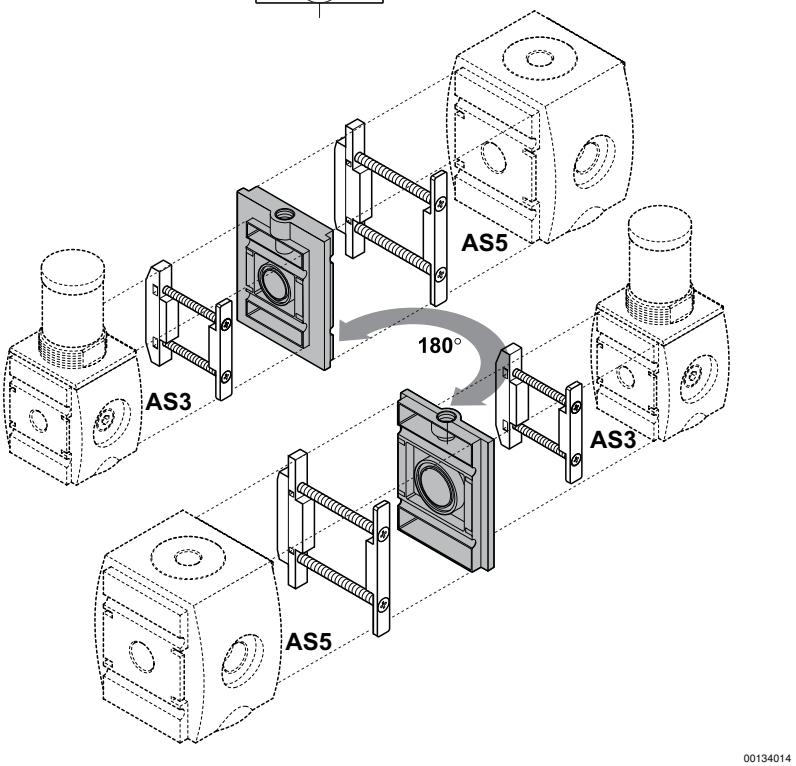
Part No.	Ambient temperature min./ max. [C°]										
R412007366	-10 / +50										
R412007367	-10 / +50										
Scope of delivery incl. 4 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 2x O-ring											

Series AS3
Accessories

Block assembly kit, Series AS3/AS5-MBR-...-W07

00135568





00134014

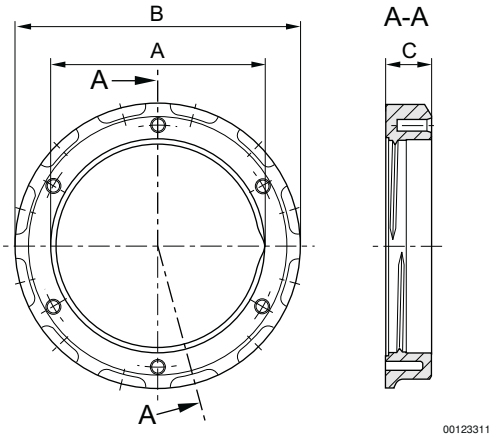
scope of delivery incl. seal

Part No.	A	B	C	D	Material Seal	Ambient temperature min./ max. [C°]				
R412010122	102	80	18	G 1/4	Acrylonitrile Butadiene Rubber	-10 / +50				

Series AS3
Accessories

Panel nut, Series AS3-MBR-...-W06

00124065



00123311

Part No.	A	B	C	Material	Ambient temperature min./max. [C°]					
R412007372	M42x1,5	55.5	8	Polyamide	-10 / +50					
R412007363	M42x1,5	50	7.8	Brass	-10 / +50					

Pressure gauge, Series PG1-SAS
► Front port ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi ► suitable for ATEX

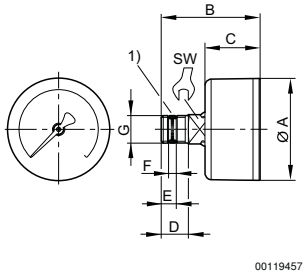
00123444

Version	Bourdon tube pressure gauge
Standardization	EN 837-1
Main scale unit (outside)	bar
Secondary scale unit (inside)	psi
Ambient temperature min./max.	-40°C / +60°C
Medium	Compressed air
Pointer color	White
Main scale color (outside)	White
Secondary scale color (inside)	Grey
Class	2,5
Materials:	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

Series AS3
Accessories

	Compressed air connection	Nominal diameter	Range of 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	0.09	**R412004413**
			0 - 2	0 - 2.5	0 / 2.5	0.1		**R412004414**
			0 - 3.2	0 - 4	0 / 4	0.1		**R412004415**
			0 - 4	0 - 6	0 / 6	0.2		**R412004416**
			0 - 8	0 - 10	0 / 10	0.2		**R412004417**
			0 - 12	0 - 16	0 / 16	0.5		**R412004418**

Dimensions



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												

Series AS3
Accessories

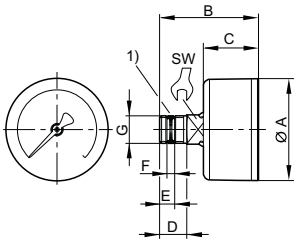
Pressure gauge, Series PG1-SAS-ADJ
► Front port ► with adjustable work area display ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi ► suitable for ATEX

00131412

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
Work area	adjustable work area display
Pointer color	White
Main scale color (outside)	White
Secondary scale color (inside)	Grey
Work Area Display, Color	Red / Green
Class	2,5
Materials:	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value	Weight	Part No.
		[mm]	[bar]	[bar]	[bar]		[kg]	
	G 1/4	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

1) Gasket thread

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

Series AS3
Accessories

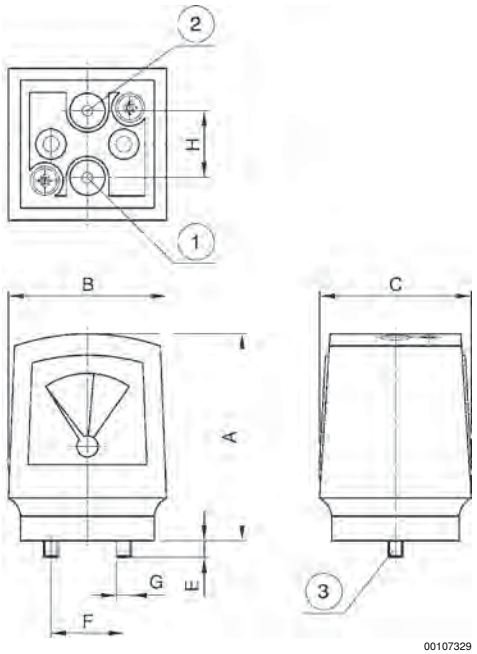
Pressure gauge, Series PG1-DIM
► for differential pressure measurement for prefilters and microfilters ► flange version ► Background color: White ► Scale color: Black ► Viewing window: Polystyrene ► Units: bar


00106963

Version	Diaphragm pressure gauge
Main scale unit (outside)	bar
Ambient temperature min./max.	+0 °C / +60 °C
Medium	Compressed air
Pointer color	Black
Main scale color (outside)	Black
Color for differential pressure range	Green / Red
Mounting orientation	vertical
Materials:	
Housing	Polyamide, fiber-glass reinforced
Viewing window	Polystyrene
Seal	Acrylonitrile butadiene styrene

	Range of application	Display range	Operating pressure	Scale value	Weight	Part No.
	[bar]	[bar]	[bar]		[kg]	
	0 - 0.5	0 - 0.5	0 / 16	0.1	0.127	**1827231072**

Dimensions



00107329

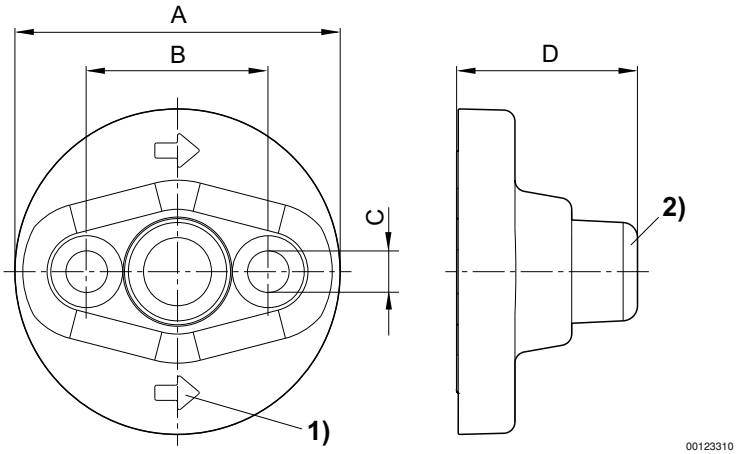
1) Input pressure p1
2) Output pressure p2
3) Mounting screw and 2 O-rings included in scope of delivery

Series AS3
Accessories

A	B	C	E	F	G	H								
68	52	50	6	24	M5	22								

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

00124003



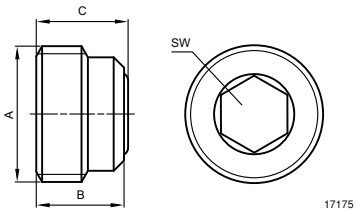
00123310

1) Flow direction
2) Display in initial state: green (= Δp < 0.35 bar)
Display turns red on contamination of the filter element (= Δp ≥ 0.35 bar).

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											

plugs

18417



17175

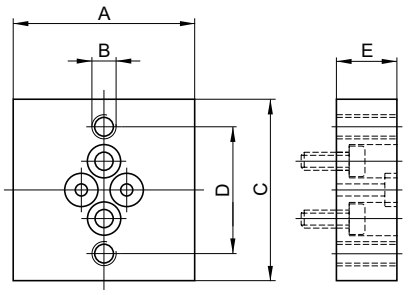
Part No.	Type	A	B	C	SW	Material
R412010124	plugs	G 1/4	8.9	8.5	6	Polyamide

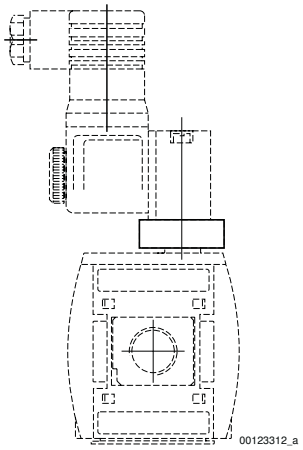
Series AS3
Accessories

Part No.	Material Seal	Delivery quantity [Piece]									
R412010124	Acrylonitrile Butadiene Rubber	10									

Transition plate, Series AS1, AS2, AS3, AS5
► with CNOMO porting configuration

00124240





00123312_a

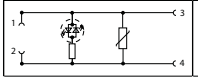
Part No.	A	B	C	D	E	Material	Weight [kg]				
R412006360	30	M4	30	21	10	Aluminum	0.025				
Scope of delivery incl. 4 mounting screws, 2 O-rings Adapter plate for assembling a series DO30 pilot valve with CNOMO porting configuration on a 3/2-way shut-off valve without pilot											

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

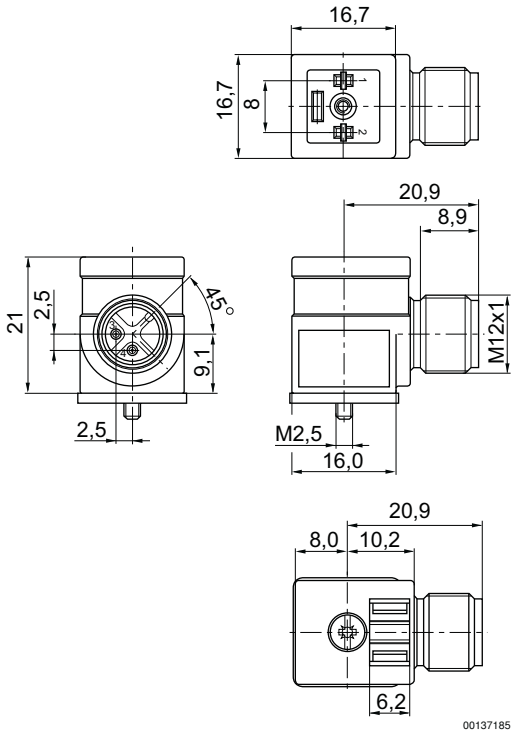
00137187

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

Series AS3
Accessories

	Max. current	Contact assignment	Protective circuit	LED status display	Housing color	Part No.
	[A]					
	1	2+E	Varistor	Yellow	Transparent	**R412009553**

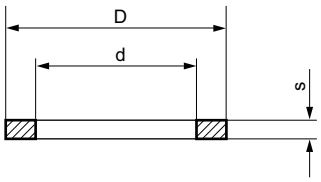
Dimensions

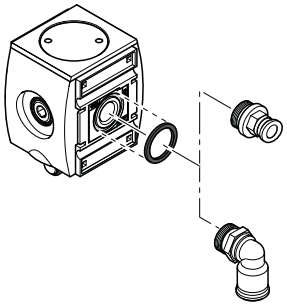


Series AS3
Accessories

Sealing ring
► Acrylonitrile butadiene styrene

00127841





00135377

Part No.	usage Series	Type	d	D	s	Delivery quantity [Piece]	Working pressure min./max. [bar]
R412010148	AS2	For compressed air connection G 3/8	17.9	22.5	1.5	10	-0.95 / 16
R412010149	AS3	For compressed air connection G 1/2	22.4	26.4	1.5	10	-0.95 / 16
R412010150	AS5	For compressed air connection G 1	36.9	41.9	1.8	10	-0.95 / 16

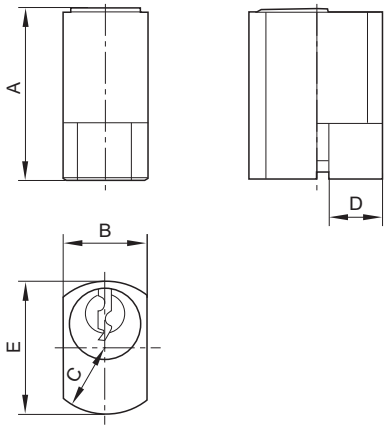
Part No.	Ambient temperature min./max. [C °]										
R412010148	-10 / +60										
R412010149	-10 / +60										
R412010150	-10 / +60										

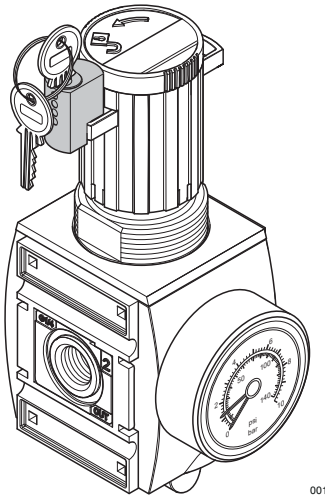
For inserting into the O-ring groove when using series QR1 and QR2 fittings.

Series AS3
Accessories

mortise lock
► for Series AS2, AS3, AS5

00135465





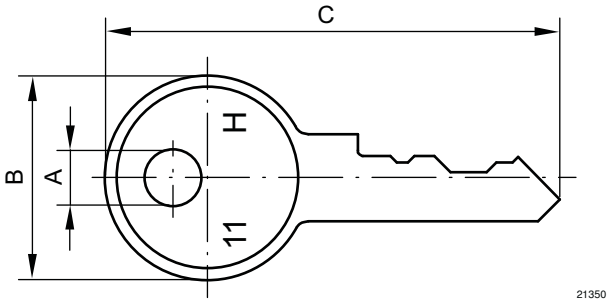
00134002

Part No.	Type	A	B	C	D	E	Material	
R412007959	Standard locking, with key	25	13	R10	Ø8	20	Steel	
R412006374	E11 locking, without key	25	13	R10	Ø8	20	Steel	

Series AS3
Accessories

Key for E11 locking

22691

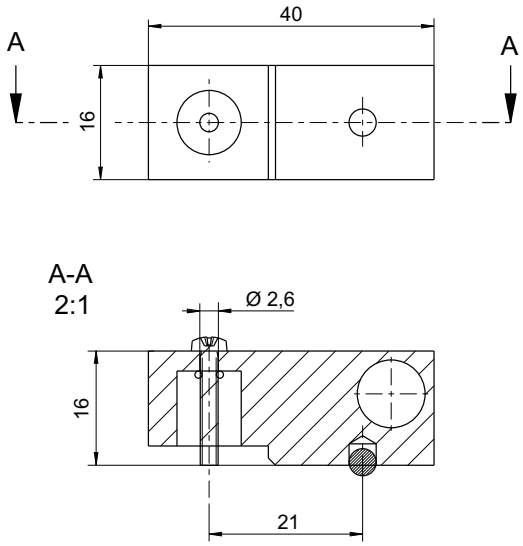


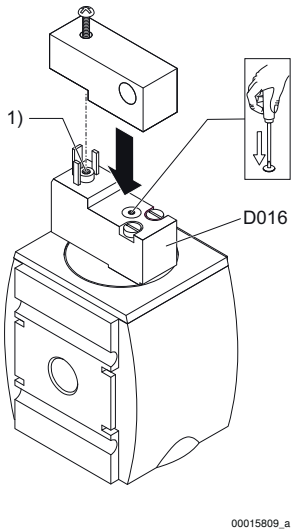
21350

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

Mounting aid
► Assembly aid for permanent actuation of manual override (“press”) on pilot valve DO16 with electrical push-in fitting, form C.

00015811





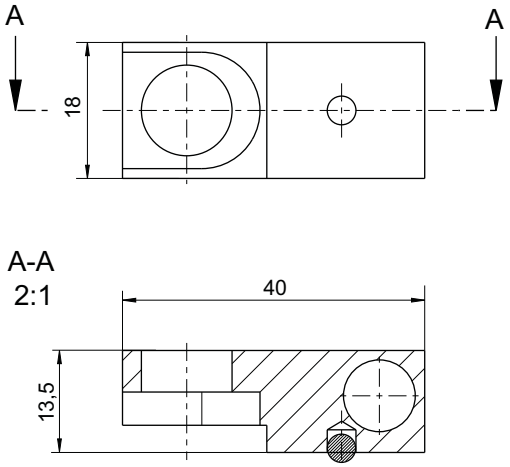
00015809_a

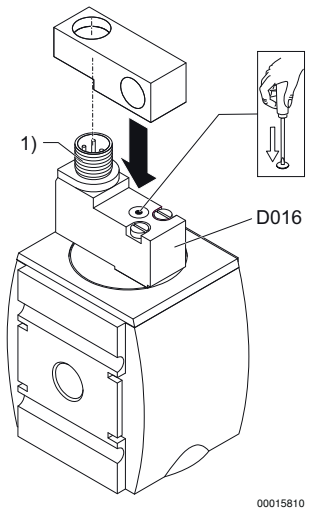
1) ISO 15217, form C

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

Series AS3
Accessories

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





1) M12x1

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

Series AS3
Accessories

Flow sensor, air supply on the left, Series AF1
► Qn = 150 - 5000 l/min ► diaphragm principle ► Electrical connection: Plug, M12x1, 5-pin

00138948_a

Frame size	AS3
Mounting orientation	Any
Certificates	CE declaration of conformity, with reference to EMC directive
Output signal	2 x PNP / NPN and 1 x analog voltage 2 x PNP / NPN and 1 x analog current
Display	LED
Flow display unit	l/h, l/sec, m³/h, gal/h
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
Max. particle size	5 µm
DC operating voltage Min.	15 V DC
DC operating voltage Max.	30 V DC
Max. power consumption	300 mA
Output signal digital max.	100 mA
Response time	< 15 ms
Precision (% of full scale value)	± 3 %
Protection class	IP65
Materials:	
Housing	Aluminum; Polyamide
Front plate	Acrylonitrile butadiene styrene

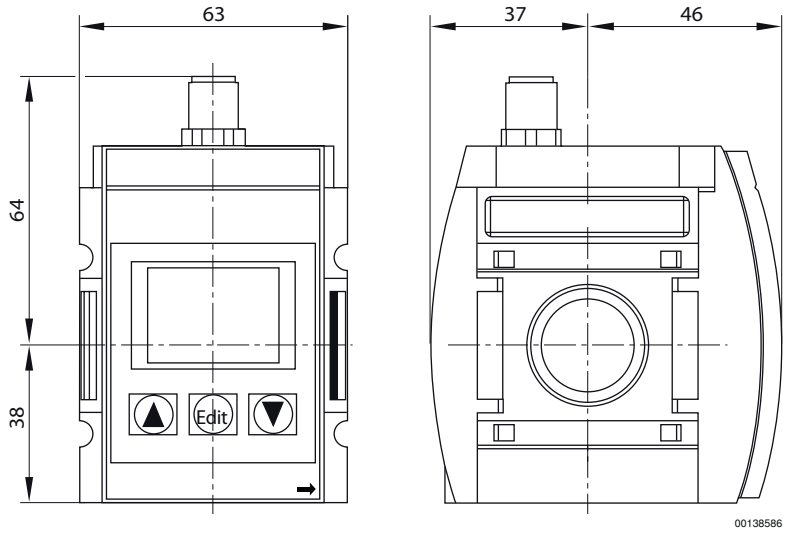
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.
- The device is designed to be installed in AS series maintenance units or to be fitted as a stand-alone device using a W05 block assembly kit.
- The device may not be installed behind a regulator or filter regulator.
- Liquid oil or water must be separated via prefiltering. If it is not separated sufficiently, drifting may result.

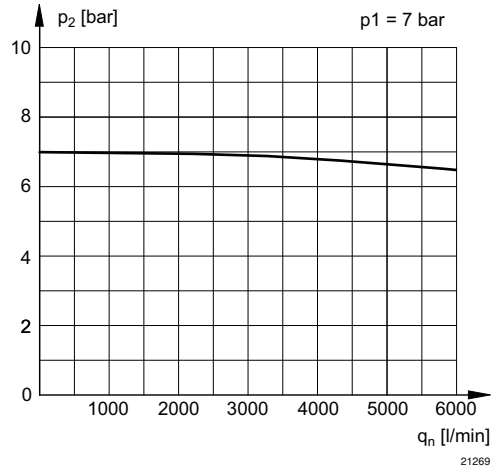
Qn Min.	Qn Max.	Analog output current	Analog output voltage	Weight	Part No.
[l/min]	[l/min]			[kg]	
250	5000	-	0 - 10 V DC	0.395	**R412010637**
150	2000	- 4 - 20 mA	0 - 10 V DC -	0.395	**R412010638** **R412010673**
250	5000	4 - 20 mA	-	0.395	**R412010674**

Series AS3
Accessories

Dimensions



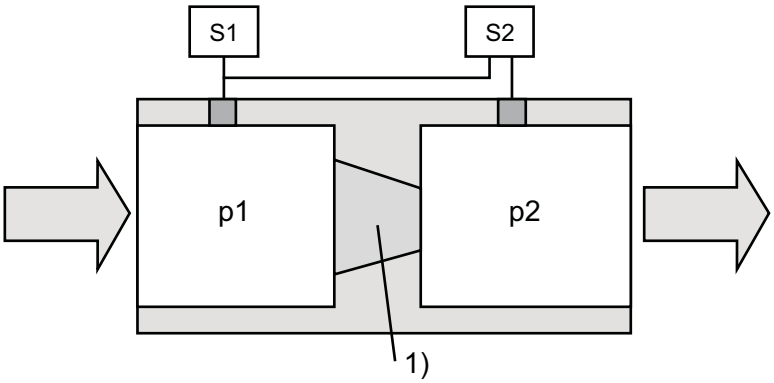
Flow diagram



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

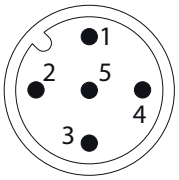
Series AS3
Accessories

Functional diagram



S1, S2 = Sensor
p1 = working pressure
p2 = secondary pressure
1) Shield

Pin assignments



(1) 24 V DC
(2) OUT 1
(3) 0 V
(4) OUT 2
(5) Analog OUT

AVENTICS GmbH
Ulmer Straße 4
30880 Laatzen, GERMANY
Phone +49 511 2136-0
Fax +49 511 2136-269
www.aventics.com
info@aventics.com

Find more contact information at
www.aventics.com/contact

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

02-05-2016