AS5

AVENTICS™

AVENTICS Series AS5 Air Preparation Units

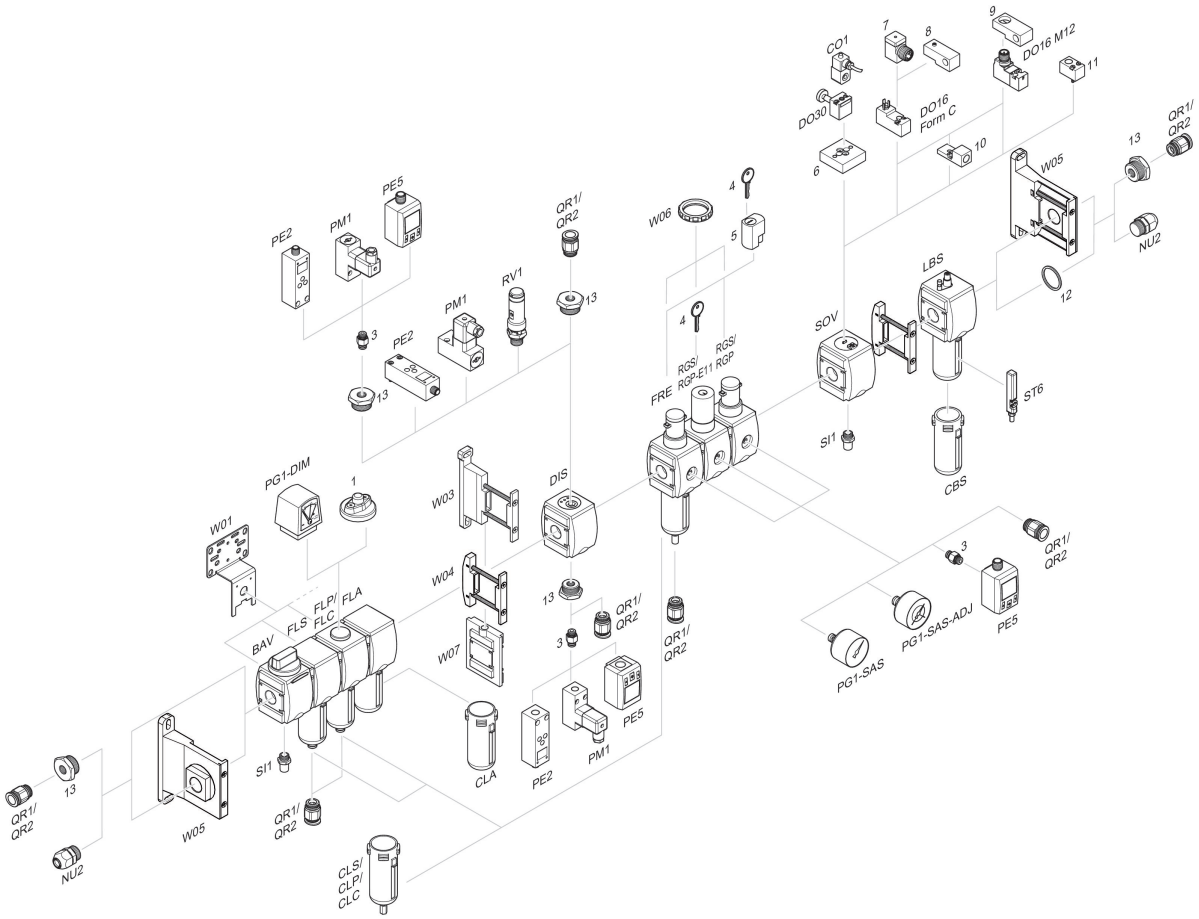
EMERSON™

Series AS5

The AVENTICS Series AS5 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.

- This modular versatile series allows to combine a huge range of different functions
- Low weight

Accessories overview



Product overview

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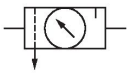
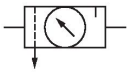
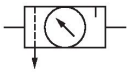
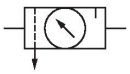
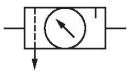
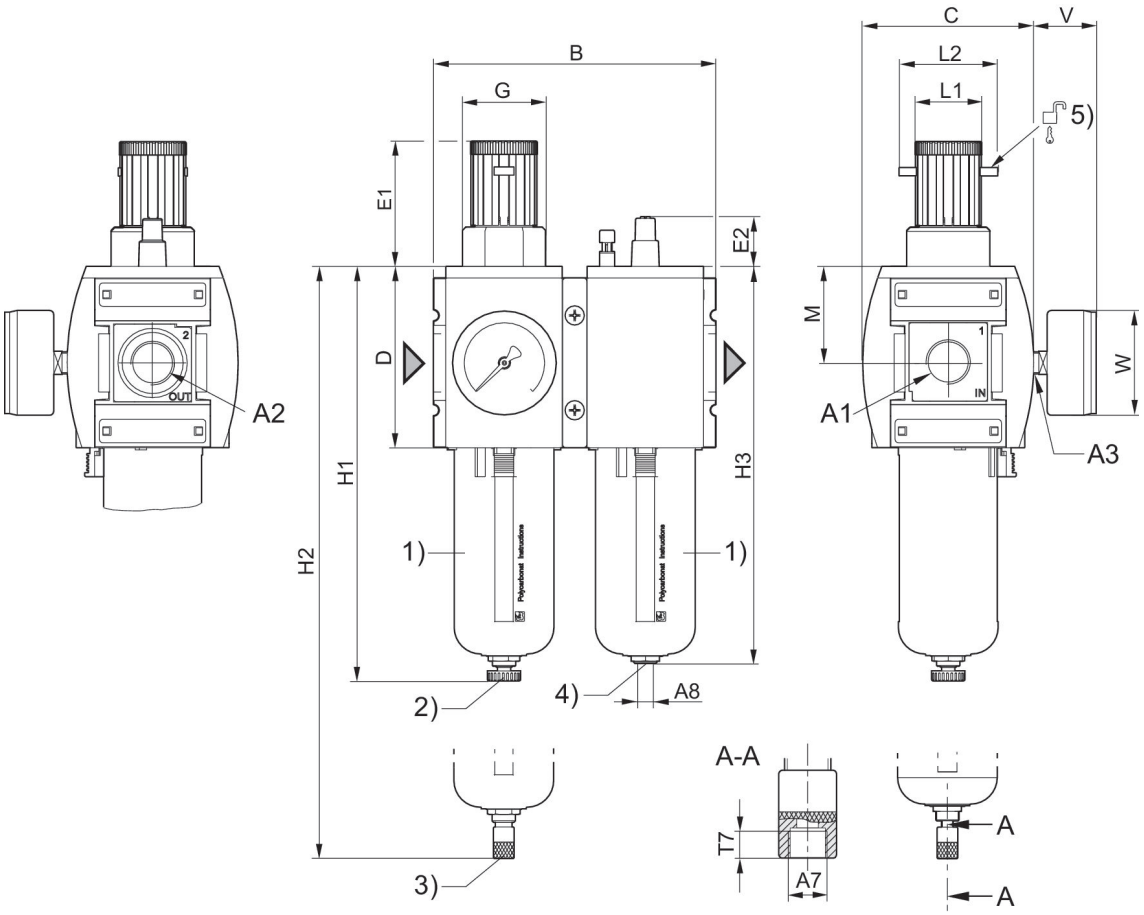
Air preparation unit, 2-part, Series AS5-ACD

Parts: Filter pressure regulator, Lubricator
Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
: lockable
: for padlocks
: with pressure gauge
Flow: 12300 l/min
Filter porosity: 5 µm
Filter reservoir volume: 87 cm³
Lubricator reservoir volume: 181 cm³
Type of filling: Manual oil filling, Semi-automatic oil filling during operation
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 1.5 bar ... 16 bar

	Port	Conden-sate drain	Reservoir	Min. regula-tion range [bar]	Max. regula-tion range [bar]	Protec-tive guard	Part No.
	G 3/4	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	0.5	8	Polyamide	R412009298
	G 3/4	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	0.5	8	Polyamide	R412009299
	G 1	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	0.5	8	Polyamide	R412009307
	G 1	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	0.5	8	Polyamide	R412009308
	G 1	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	0.5	8	Polyamide	R412009309

Dimensions



A1 = input A2 = output A3 = pressure gauge connection
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Semi-automatic condensate drain
3) Fully automatic condensate drain
4) Port for semi-automatic oil filling
5) Mounting option for padlocks, max. shackle Ø 8

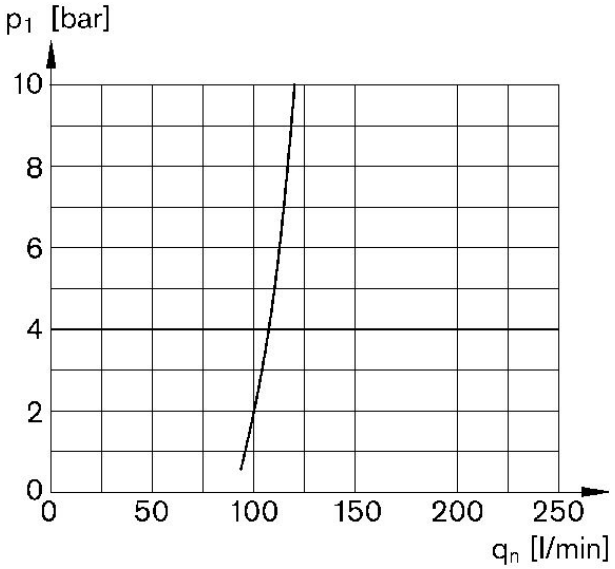
Dimensions in mm

Part No.	A1	A2	A3	A7	A8	B	C	D	E1
R412009298	G 3/4	G 3/4	G 1/4	G 1/8	G 1/8	170	103	109	75
R412009299	G 3/4	G 3/4	G 1/4	G 1/8	G 1/8	170	103	109	75
R412009307	G 1	G 1	G 1/4	G 1/8	G 1/8	170	103	109	75
R412009308	G 1	G 1	G 1/4	G 1/8	G 1/8	170	103	109	75
R412009309	G 1	G 1	G 1/4	G 1/8	G 1/8	170	103	109	75

Part No.	E2	G	H1	H2	H3	L1	L2	M	T7
R412009298	30.5	M50x1,5	250	266	239	41	60	58	8.5
R412009299	30.5	M50x1,5	250	266	239	41	60	58	8.5
R412009307	30.5	M50x1,5	250	266	239	41	60	58	8.5
R412009308	30.5	M50x1,5	250	266	239	41	60	58	8.5
R412009309	30.5	M50x1,5	250	266	239	41	60	58	8.5

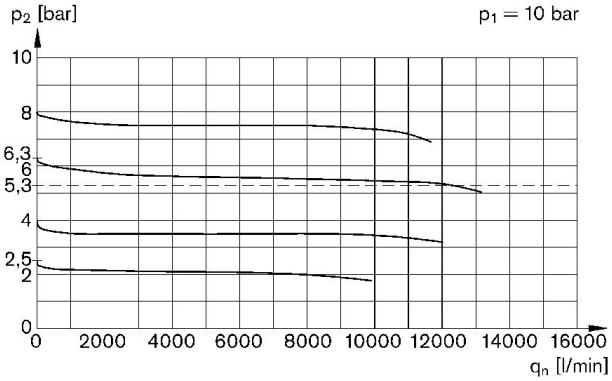
Part No.	V	W
R412009298	38	63
R412009299	38	63
R412009307	38	63
R412009308	38	63
R412009309	38	63

Lubricator activation margin



p1 = working pressure qn = nominal flow

Flow rate characteristic (setting range p2: 0.5 - 8 bar)



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

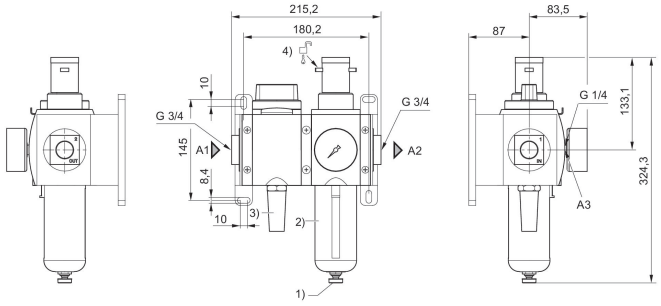
Air preparation unit, 2-part, Series AS5-ACC

Parts: Shut-off valve, Filter pressure regulator
Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
: lockable
: for padlocks
: with pressure gauge
Flow: 14000 l/min
Filter porosity: 5 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 1.5 bar ... 16 bar

Port	Condensate drain	Reservoir	Min. regulation range [bar]	Max. regulation range [bar]	Protective guard	Part No.
G 3/4	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412027675
G 1	fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412027677
G 1	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412027676

R412027675

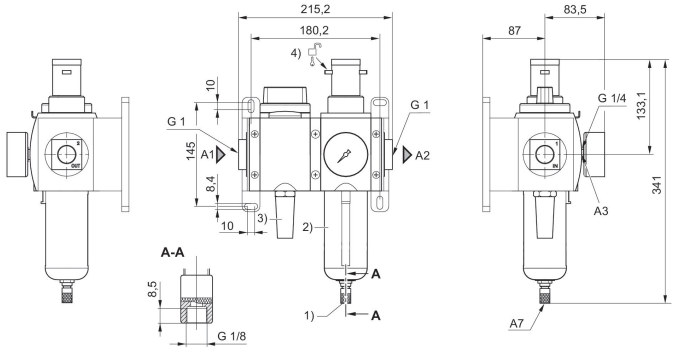
Dimensions in mm



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

R412027677

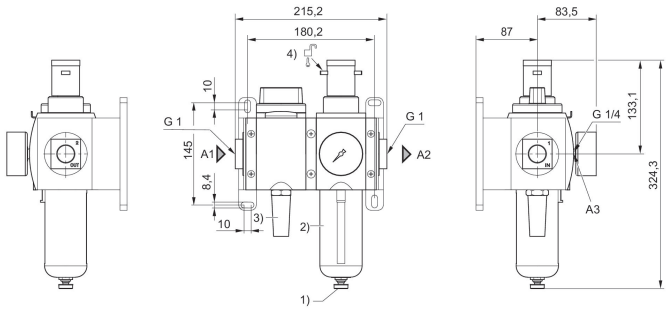
Dimensions in mm



A1 = input
A2 = output
A3 = output
A7 = condensate drain
1) Fully automatic condensate drain
2) Plastic reservoir and protective guard with window
3) Silencer
4) Mounting option for padlocks, max. shackle Ø 8

R412027676

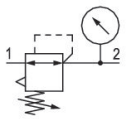
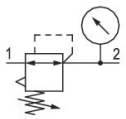
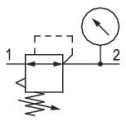
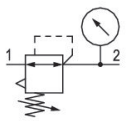
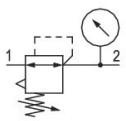
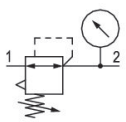
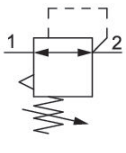
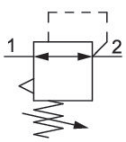
Dimensions in mm

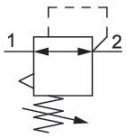
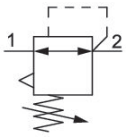
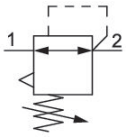
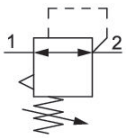
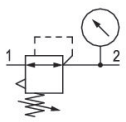
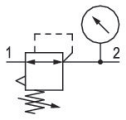
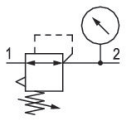
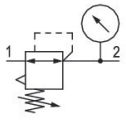
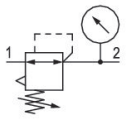
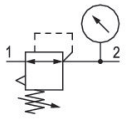
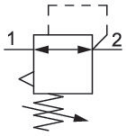


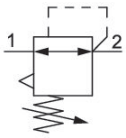
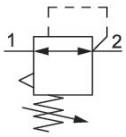
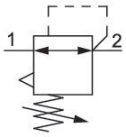
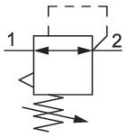
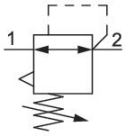
A1 = input
A2 = output
A3 = pressure gauge connection
1) Semi-automatic condensate drain
2) Plastic reservoir and protective guard with window
3) Silencer
4) Mounting option for padlocks, max. shackle Ø 8

Pressure regulator, Series AS5-RGS

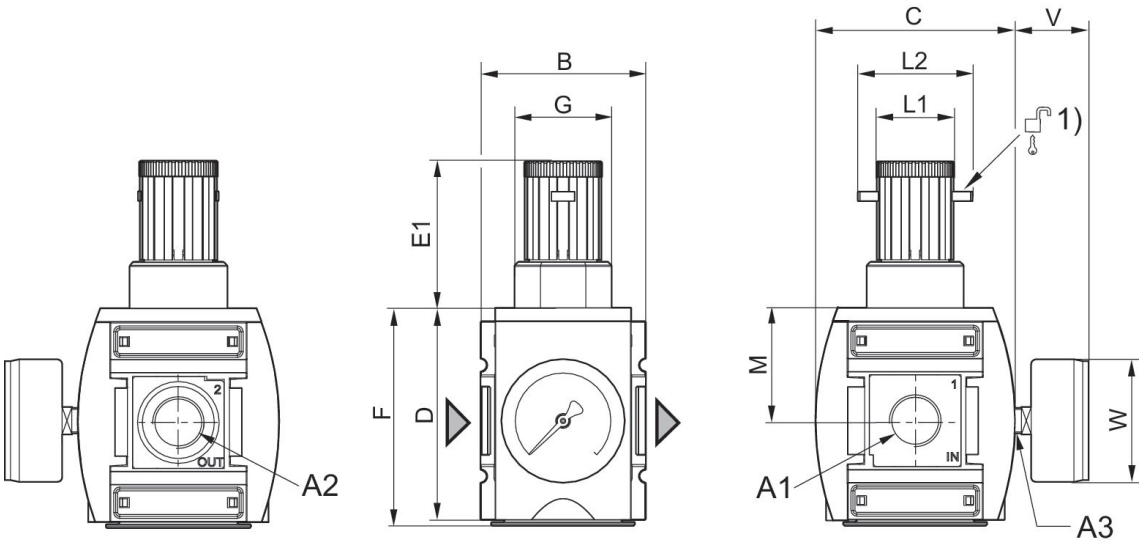
Activation: Mechanical
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
: lockable
: for padlocks
Flow: 14500 l/min
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation range [bar]	Max. regulation range [bar]	Part No.
	G 3/4	14500	0.1, 16	0.1	1	R412009101
	G 3/4	14500	0.1, 16	0.1	2	R412009103
	G 3/4	14500	0.2, 16	0.2	4	R412009105
	G 3/4	14500	0.5, 16	0.5	8	R412009107
	G 3/4	14500	0.5, 16	0.5	10	R412009109
	G 3/4	14500	0.5, 16	0.5	16	R412009111
	G 3/4	14500	0.1, 16	0.1	1	R412009100
	G 3/4	14500	0.1, 16	0.1	2	R412009102

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation range [bar]	Max. regulation range [bar]	Part No.
	G 3/4	14500	0.2, 16	0.2	4	R412009104
	G 3/4	14500	0.5, 16	0.5	8	R412009106
	G 3/4	14500	0.5, 16	0.5	10	R412009108
	G 3/4	14500	0.5, 16	0.5	16	R412009110
	G 1	14500	0.1, 16	0.1	1	R412009113
	G 1	14500	0.1, 16	0.1	2	R412009115
	G 1	14500	0.2, 16	0.2	4	R412009117
	G 1	14500	0.5, 16	0.5	8	R412009119
	G 1	14500	0.5, 16	0.5	10	R412009121
	G 1	14500	0.5, 16	0.5	16	R412009123
	G 1	14500	0.1, 16	0.1	1	R412009112

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation range [bar]	Max. regulation range [bar]	Part No.
	G 1	14500	0.1, 16	0.1	2	R412009114
	G 1	14500	0.2, 16	0.2	4	R412009116
	G 1	14500	0.5, 16	0.5	8	R412009118
	G 1	14500	0.5, 16	0.5	10	R412009120
	G 1	14500	0.5, 16	0.5	16	R412009122

Dimensions



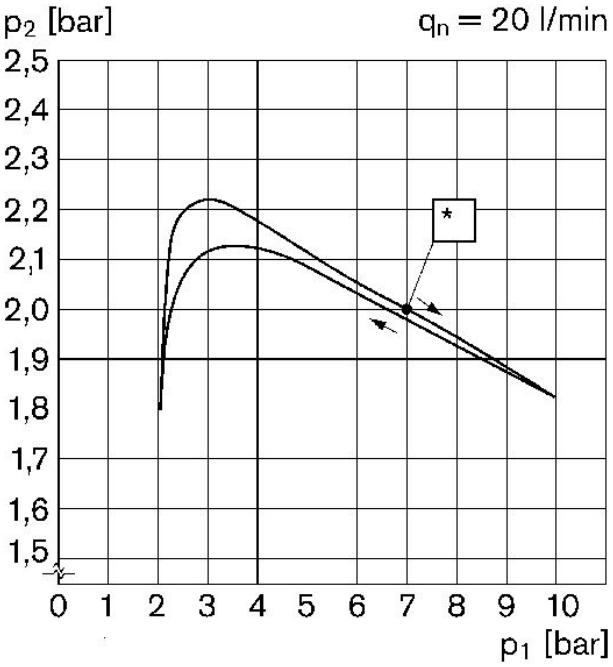
A1 = input A2 = output A3 = pressure gauge connection
1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

Part No.	A1	A2	A3	B	C	D	E1	F	G
R412009101	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009103	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009105	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009107	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009109	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009111	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009113	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009115	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009117	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009119	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009121	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009123	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009100	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009102	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009104	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009106	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009108	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009110	G 3/4	G 3/4	G 1/4	85	103	109	75	112	M50x1,5
R412009112	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009114	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009116	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009118	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009120	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5
R412009122	G 1	G 1	G 1/4	85	103	109	75	112	M50x1,5

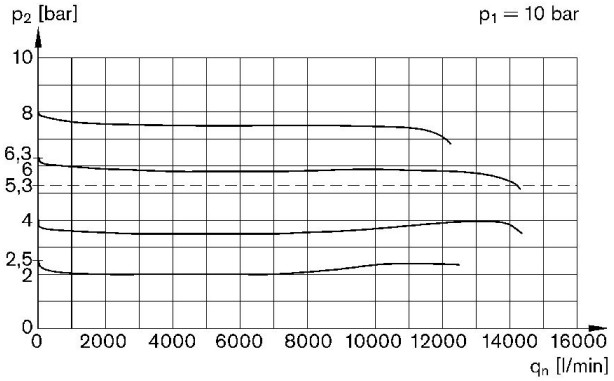
Part No.	L1	L2	M	V	W
R412009101	41	60	58	38	63
R412009103	41	60	58	38	63
R412009105	41	60	58	38	63
R412009107	41	60	58	38	63
R412009109	41	60	58	38	63
R412009111	41	60	58	38	63
R412009113	41	60	58	38	63
R412009115	41	60	58	38	63
R412009117	41	60	58	38	63
R412009119	41	60	58	38	63
R412009121	41	60	58	38	63
R412009123	41	60	58	38	63
R412009100	41	60	58	38	63
R412009102	41	60	58	38	63
R412009104	41	60	58	38	63
R412009106	41	60	58	38	63
R412009108	41	60	58	38	63
R412009110	41	60	58	38	63
R412009112	41	60	58	38	63
R412009114	41	60	58	38	63
R412009116	41	60	58	38	63
R412009118	41	60	58	38	63
R412009120	41	60	58	38	63
R412009122	41	60	58	38	63

Pressure characteristics curve



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow
* starting point

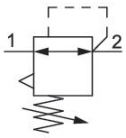
Flow rate characteristic (setting range p2: 0.5 - 8 bar)



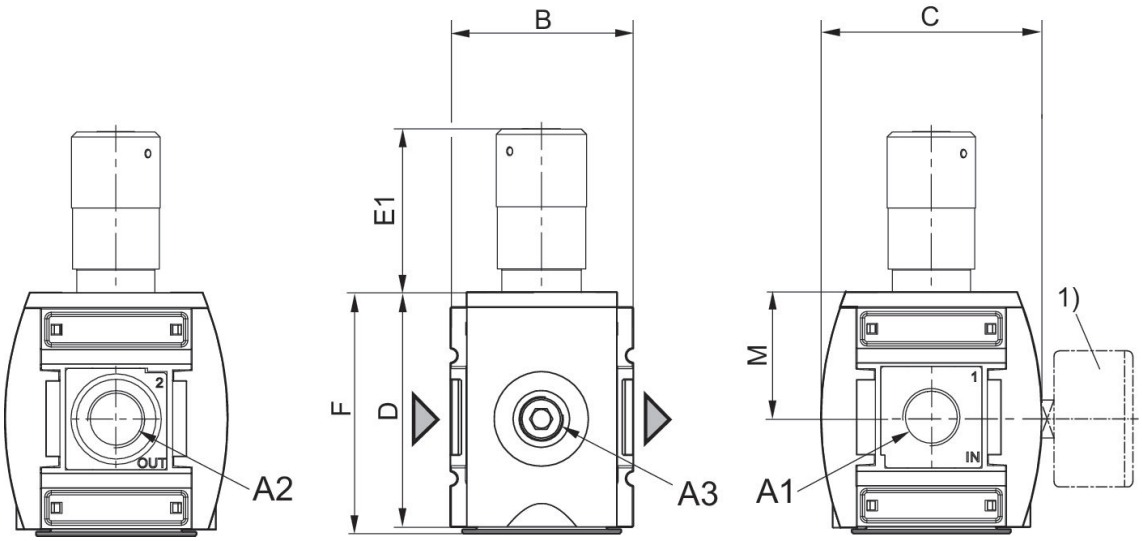
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series AS5-RGS-...-E11

Activation: Mechanical
Mounting orientation: Any
: Can be assembled into blocks
: lockable
: E11 locking, without key
Flow: 14500 l/min
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation range [bar]	Max. regulation range [bar]	Part No.
	G 1	14500	0.5, 16	0.5	10	R412009099

Dimensions

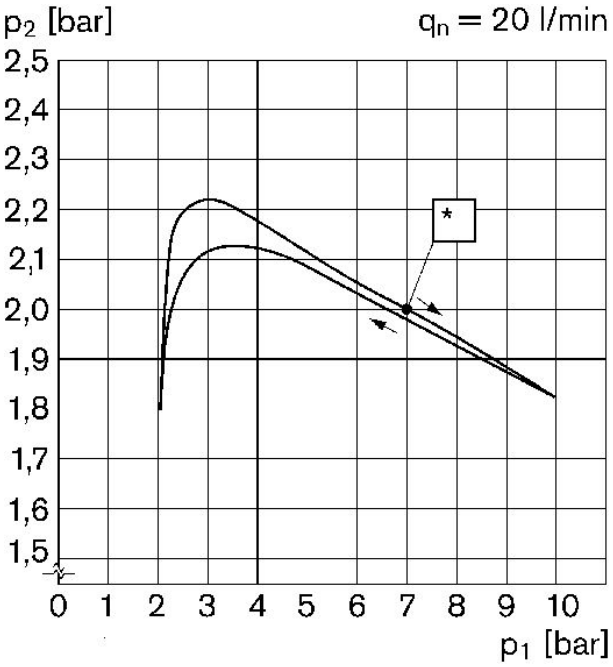


A1 = input A2 = output A3 = pressure gauge connection
1) Order pressure gauge separately

Dimensions in mm

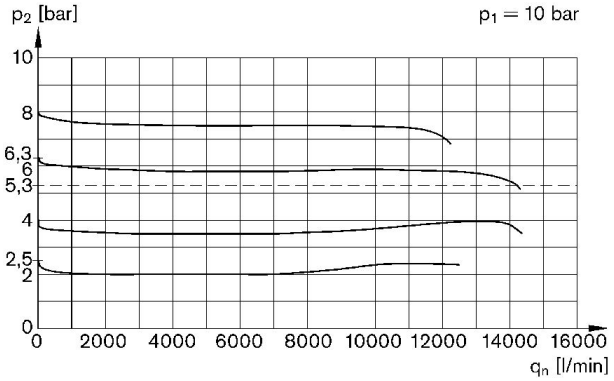
Part No.	A1	A2	A3	B	C	D	E1	F	M
R412009158	G 1	G 1	G 1/4	85	103	109	90	112	58
R412009099	G 1	G 1	G 1/4	85	103	109	90	112	58

Pressure characteristics curve



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow
* starting point

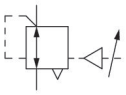
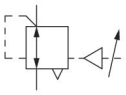
Flow rate characteristic (setting range p2: 0.5 - 8 bar)



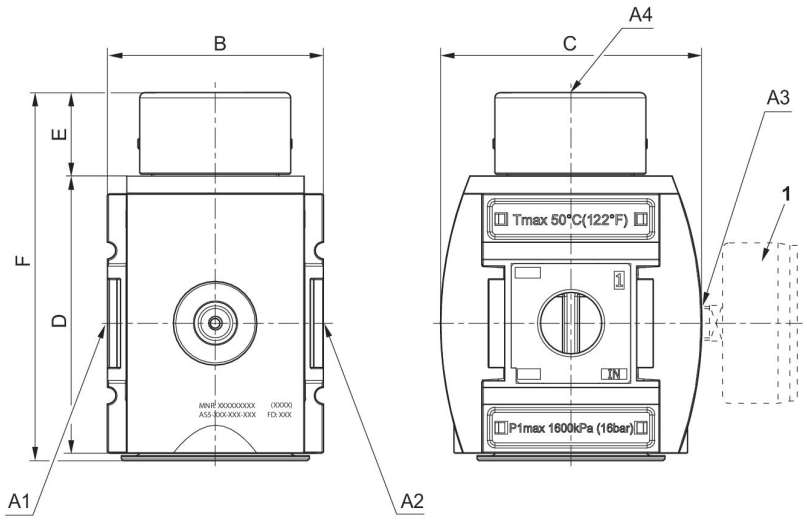
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series AS5-RGS

Activation: Pneumatically
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
Flow: 16500 l/min
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation range [bar]	Max. regulation range [bar]	Part No.
	G 3/4	16500	0.5, 16	0.5	16	R412009094
	G 1	16500	0.5, 16	0.5	16	R412009095

Dimensions

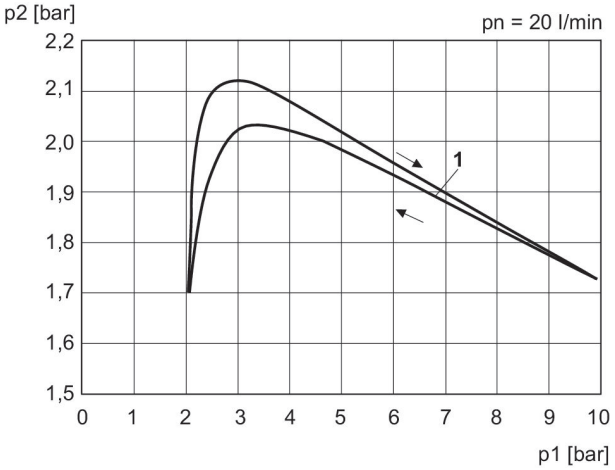


A1 = input A2 = output A3 = pressure gauge connection
A4 = control pressure connection
1) Order pressure gauge separately

Dimensions in mm

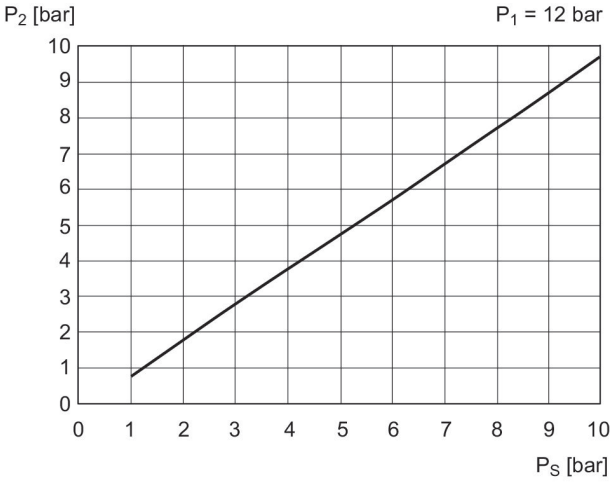
Part No.	A1	A2	A3	A4	B	C	D	E	F
R412009094	G 3/4	G 3/4	G 1/4	G 1/4	85	103	109	32.6	145
R412009095	G 1	G 1	G 1/4	G 1/4	85	103	109	32.6	145

Pressure characteristics curve



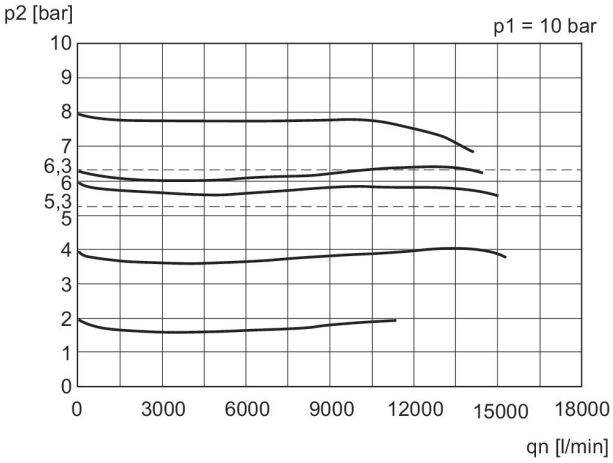
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow
1) = Starting point

control pressure characteristic



p1 = Working pressure
p2 = Secondary pressure
PS = control pressure

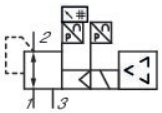
Flow rate characteristic (setting range p2: 0.5 - 8 bar)



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

E/P pressure regulator, Series EV18

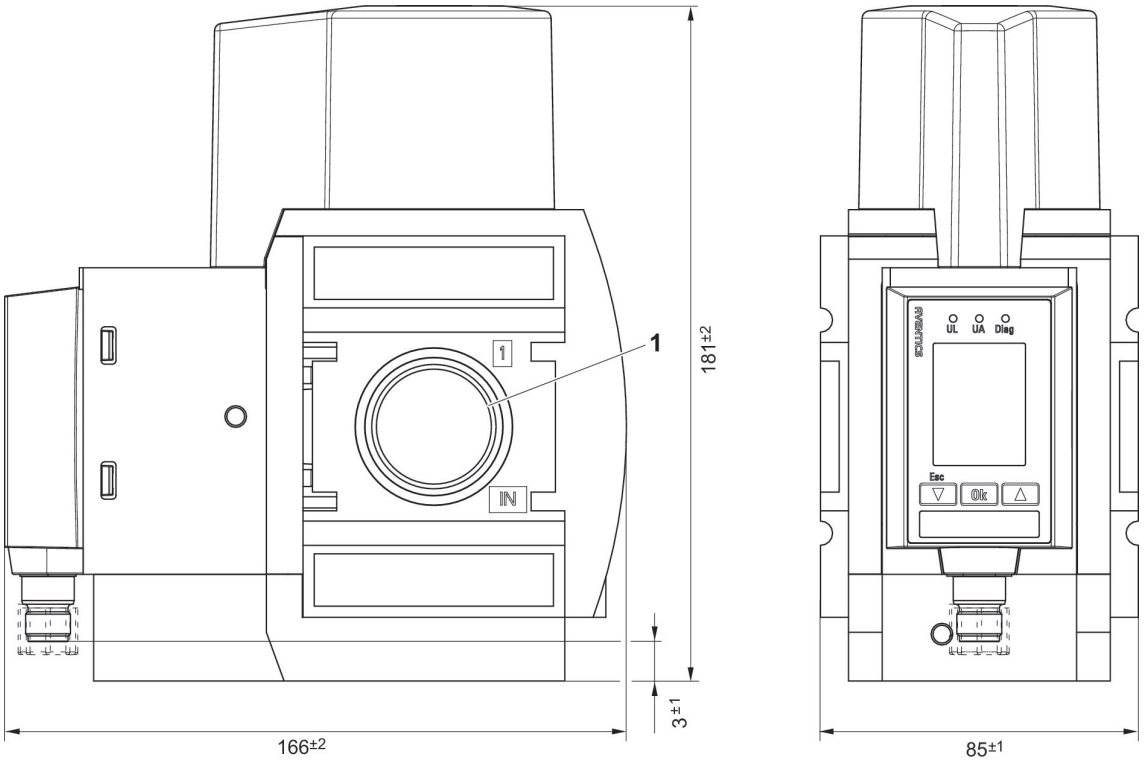
Flow: 16500 l/min
Electrical connection 2, thread size: M12
Frame size: AS5
Electrical connection 2, number of poles: 5-pin
Ambient temperature min./max.: 0 °C ... 50 °C
Medium temperature min./max.: 0 °C ... 50 °C
Working pressure min./max.: 0 bar ... 10 bar



Compressed air connection 1	Compressed air connection 2	Min. working pressure [bar]	Max. working pressure [bar]	Min. regulation range [bar]	Max. regulation range [bar]	Nominal input value	Actual output value	Part No.
G 1	G 1	0	10	0	10	4 ... 20 mA	4 ... 20 mA	R414011412
G 3/4	G 3/4	0	10	0	10	4 ... 20 mA	4 ... 20 mA	R414011418

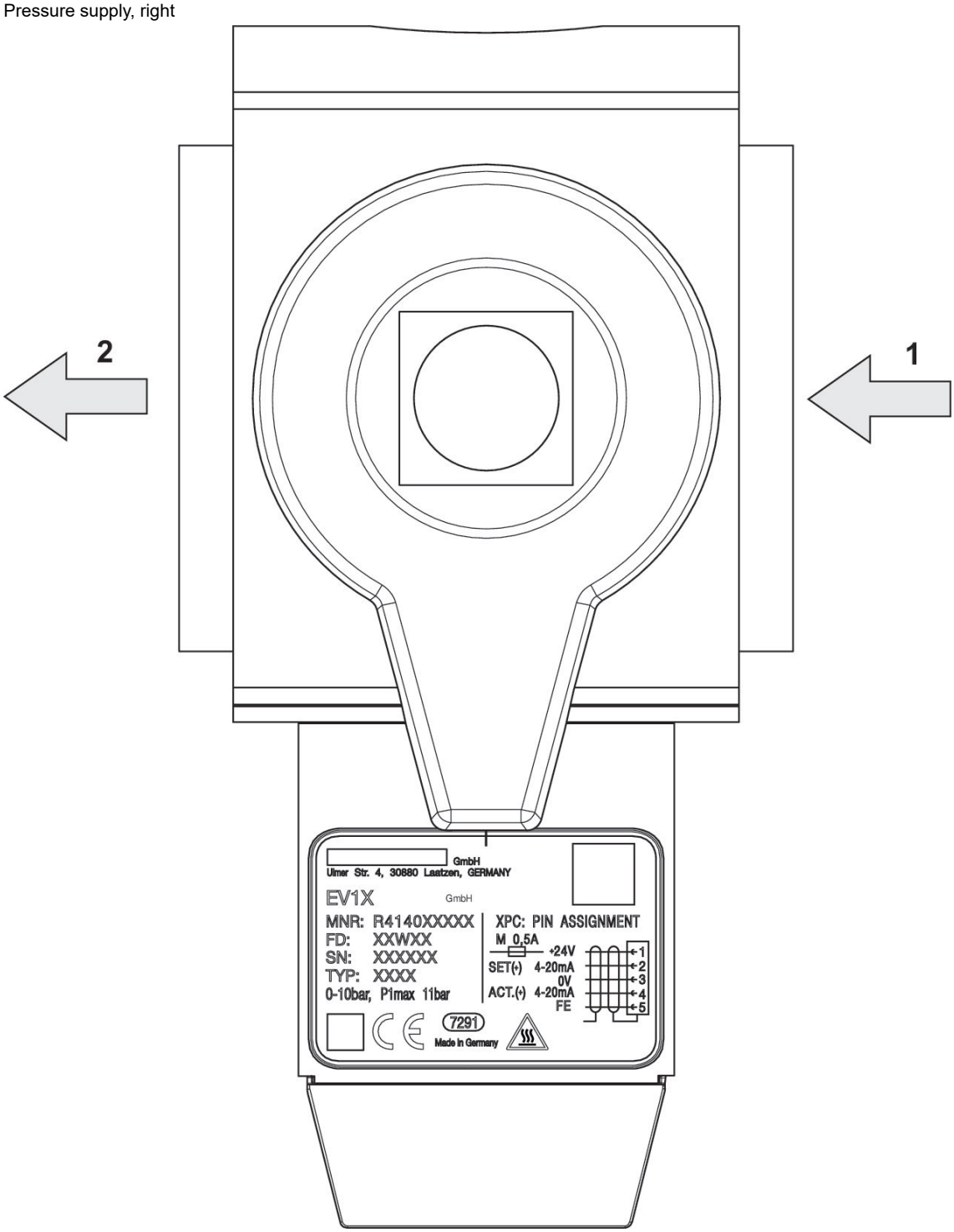
Max. current consumption [mA]	Hysteresis	Part No.
220	0,12 bar	R414011412
220	0,12 bar	R414011418

Dimensions
Pressure supply, right

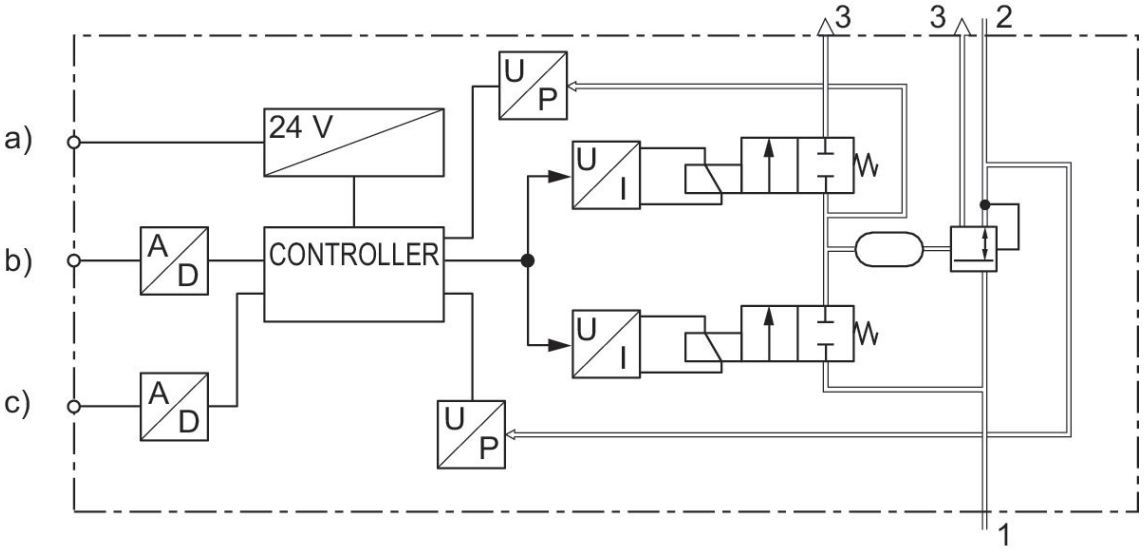


1) Connection thread

Pressure supply, right

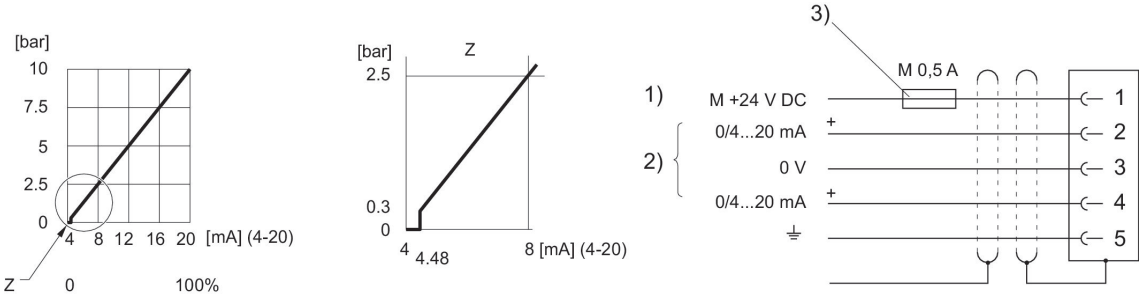


Functional diagram



a) Voltage supply b) Nominal value
c) Actual output value

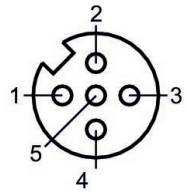
Characteristic and pin assignment for current control with actual output value



1) power supply
2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3). Nominal input value (ohmic load 100 Ω), actual output value: external ohmic load < 300 Ω. If the power supply is switched off, the nominal input value is high-ohmic.
3) The power supply must be protected by an external M 0.5 A fuse. Connect the plug via a shielded cable to ensure EMC.

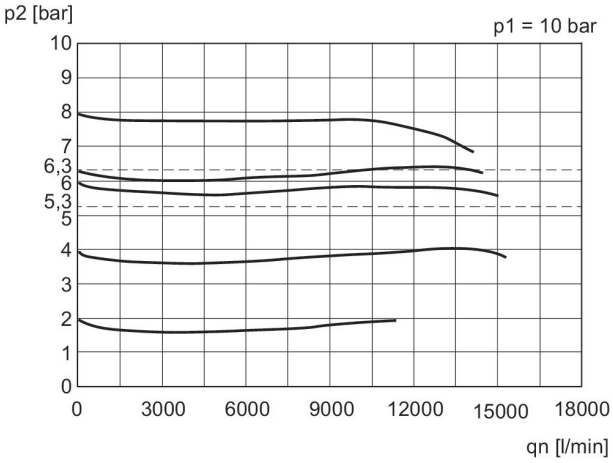
R414011412, R414011418

Plug assignment



1) 24 V DC
2) Nominal input value
3) GND
4) Actual output value
5) Ground

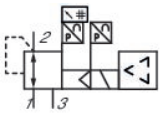
Flow characteristic curve



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

E/P pressure regulator, Series EV18

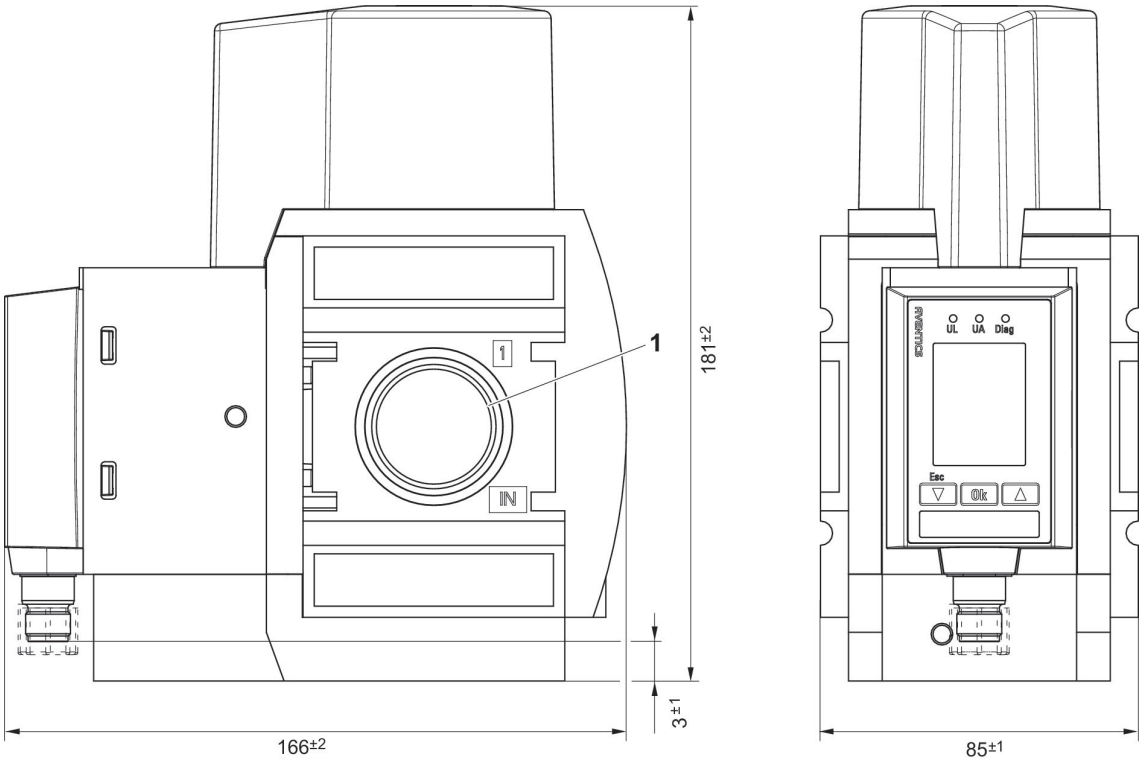
Flow: 16500 l/min
Electrical connection 2, thread size: M12
Frame size: AS5
Electrical connection 2, number of poles: 5-pin
Ambient temperature min./max.: 0 °C ... 50 °C
Medium temperature min./max.: 0 °C ... 50 °C
Working pressure min./max.: 0 bar ... 10 bar



Compressed air connection 1	Compressed air connection 2	Min. working pressure [bar]	Max. working pressure [bar]	Min. regulation range [bar]	Max. regulation range [bar]	Nominal input value	Actual output value	Part No.
G 1	G 1	0	10	0	10	0 ... 10 V	0 ... 10 V	R414011411
G 3/4	G 3/4	0	10	0	10	0 ... 10 V	0 ... 10 V	R414011417

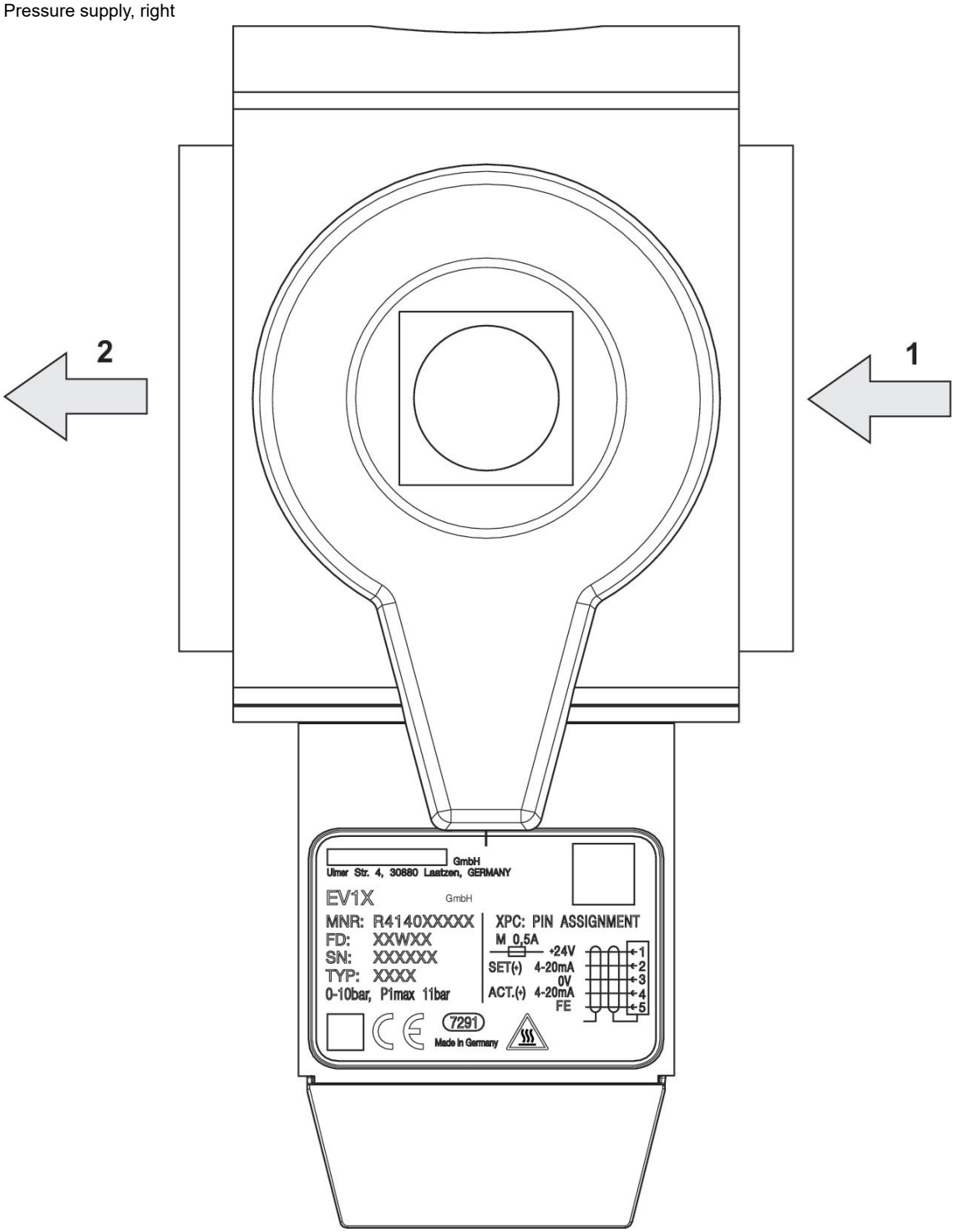
Max. current consumption [mA]	Hysteresis	Part No.
220	0,12 bar	R414011411
220	0,12 bar	R414011417

Dimensions
Pressure supply, right

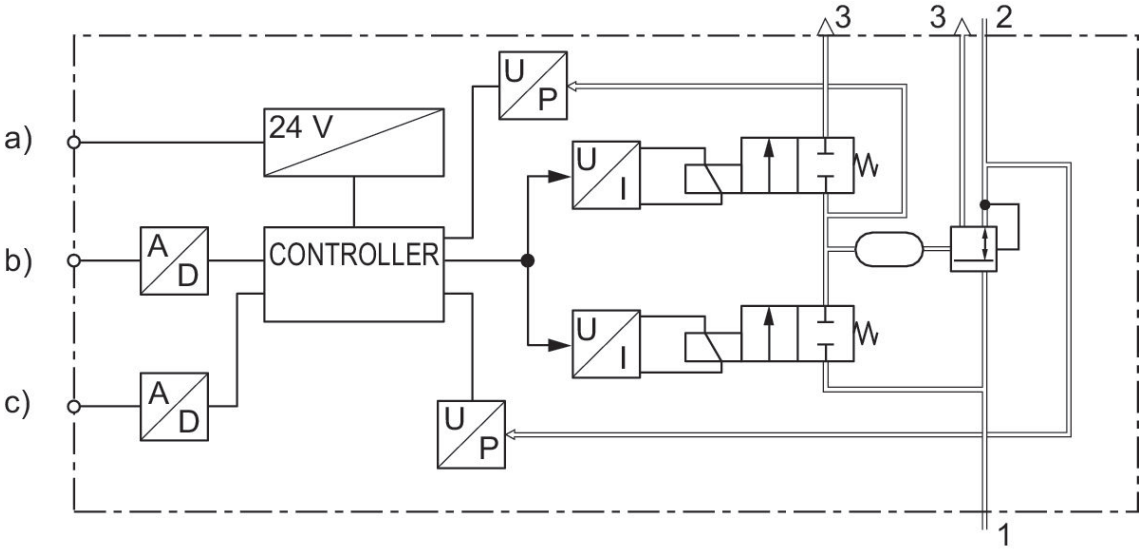


1) Connection thread

Pressure supply, right

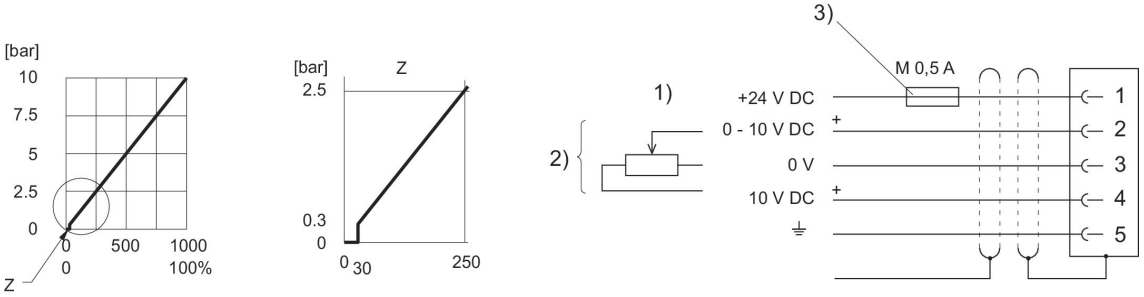


Functional diagram



a) Voltage supply b) Nominal value
c) Actual output value

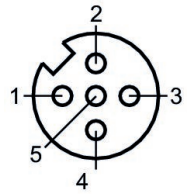
Characteristic and pin assignment for voltage control with actual output value



1) power supply
2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3). Nominal input value (R = 1 MΩ), actual output value: min. load resistance > 10 KΩ. If the power supply is switched off, the nominal input value is high-ohmic.
3) The power supply must be protected by an external M 0.5 A fuse. Connect the plug via a shielded cable to ensure EMC.

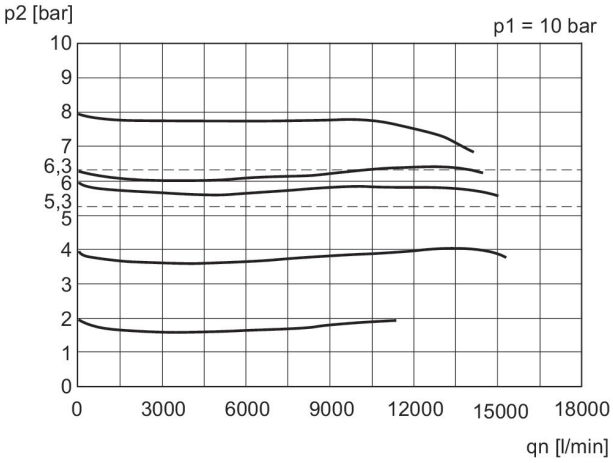
R414011411, R414011417

Plug assignment



1) 24 V DC
2) Nominal input value
3) GND
4) Actual output value
5) Ground

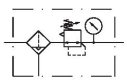
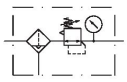
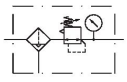
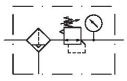
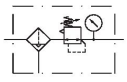
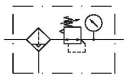
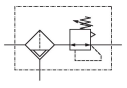
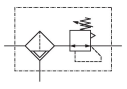
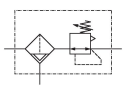
Flow characteristic curve

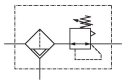
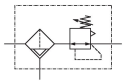
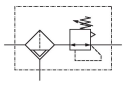
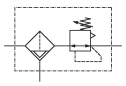
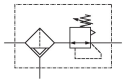
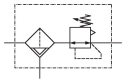
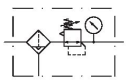
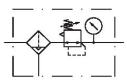
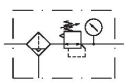
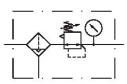
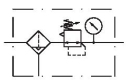
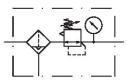
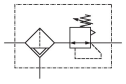


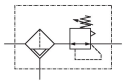
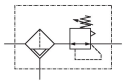
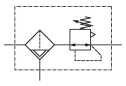
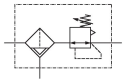
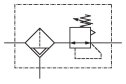
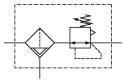
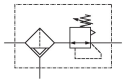
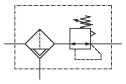
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Filter pressure regulator, Series AS5-FRE

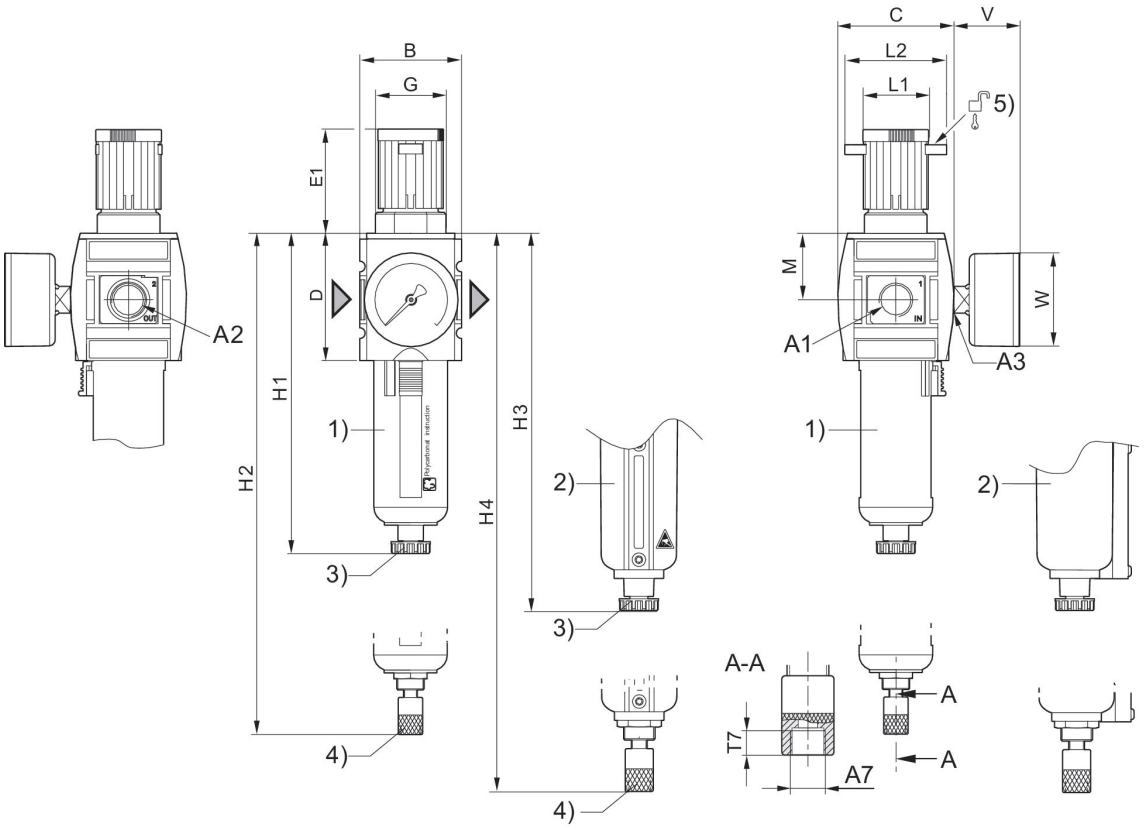
Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
: lockable
: for padlocks
Flow: 14000 l/min
Filter porosity: 5 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Condensate drain	Reservoir	Min. regulation range [bar]	Max. regulation range [bar]	Protective guard	Part No.
	G 3/4	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009200
	G 3/4	fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009201
	G 3/4	fully automatic, closed without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009202
	G 3/4	semi-automatic, open without pressure	reservoir, metal, with inspection glass	0.5	8		R412009206
	G 3/4	fully automatic, open without pressure	reservoir, metal, with inspection glass	0.5	8		R412009207
	G 3/4	fully automatic, closed without pressure	reservoir, metal, with inspection glass	0.5	8		R412009208
	G 3/4	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009175
	G 3/4	fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009176
	G 3/4	fully automatic, closed without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009177

	Port	Condensate drain	Reservoir	Min. regulation range [bar]	Max. regulation range [bar]	Protective guard	Part No.
	G 3/4	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009193
	G 3/4	fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009194
	G 3/4	fully automatic, closed without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009195
	G 3/4	semi-automatic, open without pressure	reservoir, metal, with inspection glass	0.5	8		R412009181
	G 3/4	fully automatic, open without pressure	reservoir, metal, with inspection glass	0.5	8		R412009182
	G 3/4	fully automatic, closed without pressure	reservoir, metal, with inspection glass	0.5	8		R412009183
	G 1	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009209
	G 1	fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009210
	G 1	fully automatic, closed without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009211
	G 1	semi-automatic, open without pressure	reservoir, metal, with inspection glass	0.5	8		R412009215
	G 1	fully automatic, open without pressure	reservoir, metal, with inspection glass	0.5	8		R412009216
	G 1	fully automatic, closed without pressure	reservoir, metal, with inspection glass	0.5	8		R412009217
	G 1	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009184

	Port	Condensate drain	Reservoir	Min. regulation range [bar]	Max. regulation range [bar]	Protective guard	Part No.
	G 1	fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009185
	G 1	fully automatic, closed without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009186
	G 1	semi-automatic, open without pressure	reservoir, metal, with inspection glass	0.5	8		R412009190
	G 1	fully automatic, open without pressure	reservoir, metal, with inspection glass	0.5	8		R412009191
	G 1	fully automatic, closed without pressure	reservoir, metal, with inspection glass	0.5	8		R412009192
	G 1	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009196
	G 1	fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009197
	G 1	fully automatic, closed without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009198

Dimensions



A1 = input A2 = output A3 = pressure gauge connection
A7 = condensate drain
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

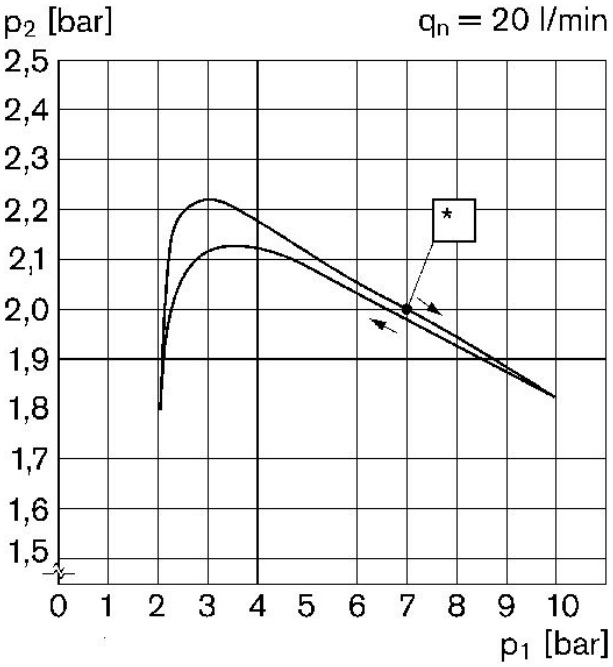
Dimensions in mm

Part No.	A1	A2	A3	A7	B	C	D	E1	G
R412009200	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009201	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009202	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009206	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009207	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009208	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009209	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009210	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009211	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009215	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009216	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009217	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009175	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009176	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009177	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009193	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009194	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009195	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009181	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009182	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009183	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009184	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009185	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009186	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009192	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009191	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009190	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009196	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009197	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009198	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5

Part No.	H1	H2	H3	H4	L1	L2	M	T7	V
R412009200	250	206	193.5	210.5	41	60	58	8.5	38
R412009201	250	206	193.5	210.5	41	60	58	8.5	38
R412009202	250	206	193.5	210.5	41	60	58	8.5	38
R412009206	250	206	193.5	210.5	41	60	58	8.5	38
R412009207	250	206	193.5	210.5	41	60	58	8.5	38
R412009208	250	206	193.5	210.5	41	60	58	8.5	38
R412009209	250	206	193.5	210.5	41	60	58	8.5	38
R412009210	250	206	193.5	210.5	41	60	58	8.5	38
R412009211	250	206	193.5	210.5	41	60	58	8.5	38
R412009215	250	206	193.5	210.5	41	60	58	8.5	38
R412009216	250	206	193.5	210.5	41	60	58	8.5	38
R412009217	250	206	193.5	210.5	41	60	58	8.5	38
R412009175	250	206	193.5	210.5	41	60	58	8.5	38
R412009176	250	206	193.5	210.5	41	60	58	8.5	38
R412009177	250	206	193.5	210.5	41	60	58	8.5	38
R412009193	250	206	193.5	210.5	41	60	58	8.5	38
R412009194	250	206	193.5	210.5	41	60	58	8.5	38
R412009195	250	206	193.5	210.5	41	60	58	8.5	38
R412009181	250	206	193.5	210.5	41	60	58	8.5	38
R412009182	250	206	193.5	210.5	41	60	58	8.5	38
R412009183	250	206	193.5	210.5	41	60	58	8.5	38
R412009184	250	206	193.5	210.5	41	60	58	8.5	38
R412009185	250	206	193.5	210.5	41	60	58	8.5	38
R412009186	250	206	193.5	210.5	41	60	58	8.5	38
R412009192	250	206	193.5	210.5	41	60	58	8.5	38
R412009191	250	206	193.5	210.5	41	60	58	8.5	38
R412009190	250	206	193.5	210.5	41	60	58	8.5	38
R412009196	250	206	193.5	210.5	41	60	58	8.5	38
R412009197	250	206	193.5	210.5	41	60	58	8.5	38
R412009198	250	206	193.5	210.5	41	60	58	8.5	38

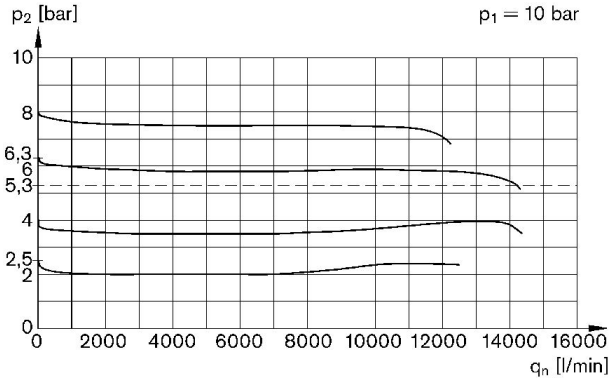
Part No.	W
R412009200	63
R412009201	63
R412009202	63
R412009206	63
R412009207	63
R412009208	63
R412009209	63
R412009210	63
R412009211	63
R412009215	63
R412009216	63
R412009217	63
R412009175	63
R412009176	63
R412009177	63
R412009193	63
R412009194	63
R412009195	63
R412009181	63
R412009182	63
R412009183	63
R412009184	63
R412009185	63
R412009186	63
R412009192	63
R412009191	63
R412009190	63
R412009196	63
R412009197	63
R412009198	63

Pressure characteristics curve



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow
* starting point

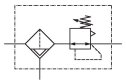
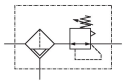
Flow rate characteristic (setting range p2: 0.5 - 8 bar)



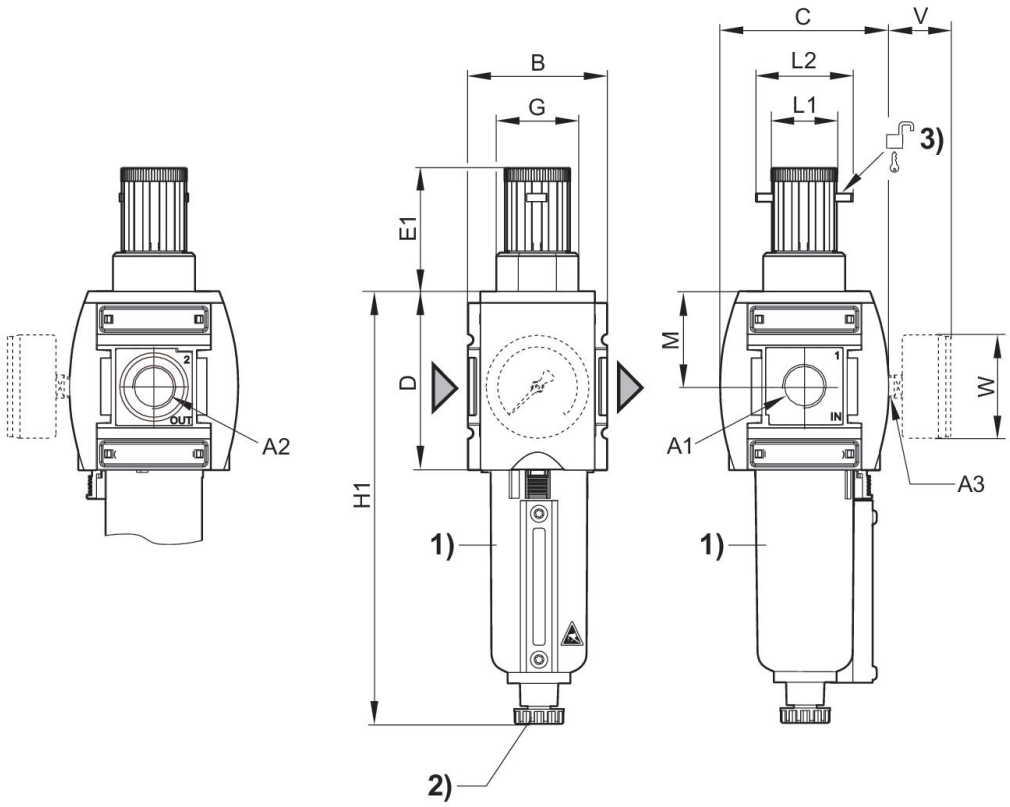
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Filter pressure regulator, Series AS5-FRE

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
: lockable
: for padlocks
Filter porosity: 25 µm
Filter reservoir volume: 87 cm³
Condensate drain: semi-automatic, open without pressure
Ambient temperature min./max.: -10 °C ... 50 °C

	Port	Condensate drain	Reservoir	Min. regulation range [bar]	Max. regulation range [bar]	Protective guard	Part No.
	G 3/4	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009188
	G 1	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	8	Polyamide	R412009189

Dimensions



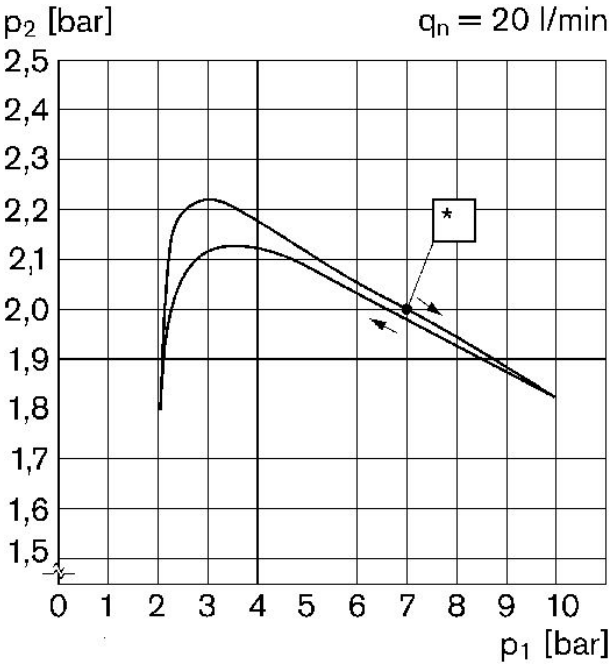
A1 = input A2 = output A3 = pressure gauge connection
1) Metal reservoir with level indicator
2) Semi-automatic condensate drain
3) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

Part No.	A1	A2	A3	B	C	D	E1	G	H1
R412009188	G 3/4	G 3/4	G 1/4	85	103	109	75	M50x1,5	250
R412009189	G 1	G 1	G 1/4	85	103	109	75	M50x1,5	250

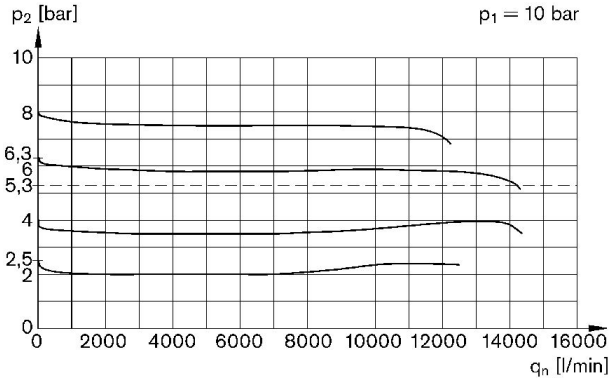
Part No.	L1	L2	M	V	W
R412009188	41	60	58	38	63
R412009189	41	60	58	38	63

Pressure characteristics curve



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow
* starting point

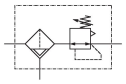
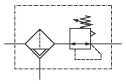
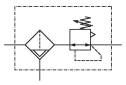
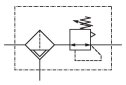
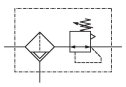
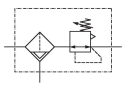
Flow rate characteristic (setting range p2: 0.5 - 8 bar)



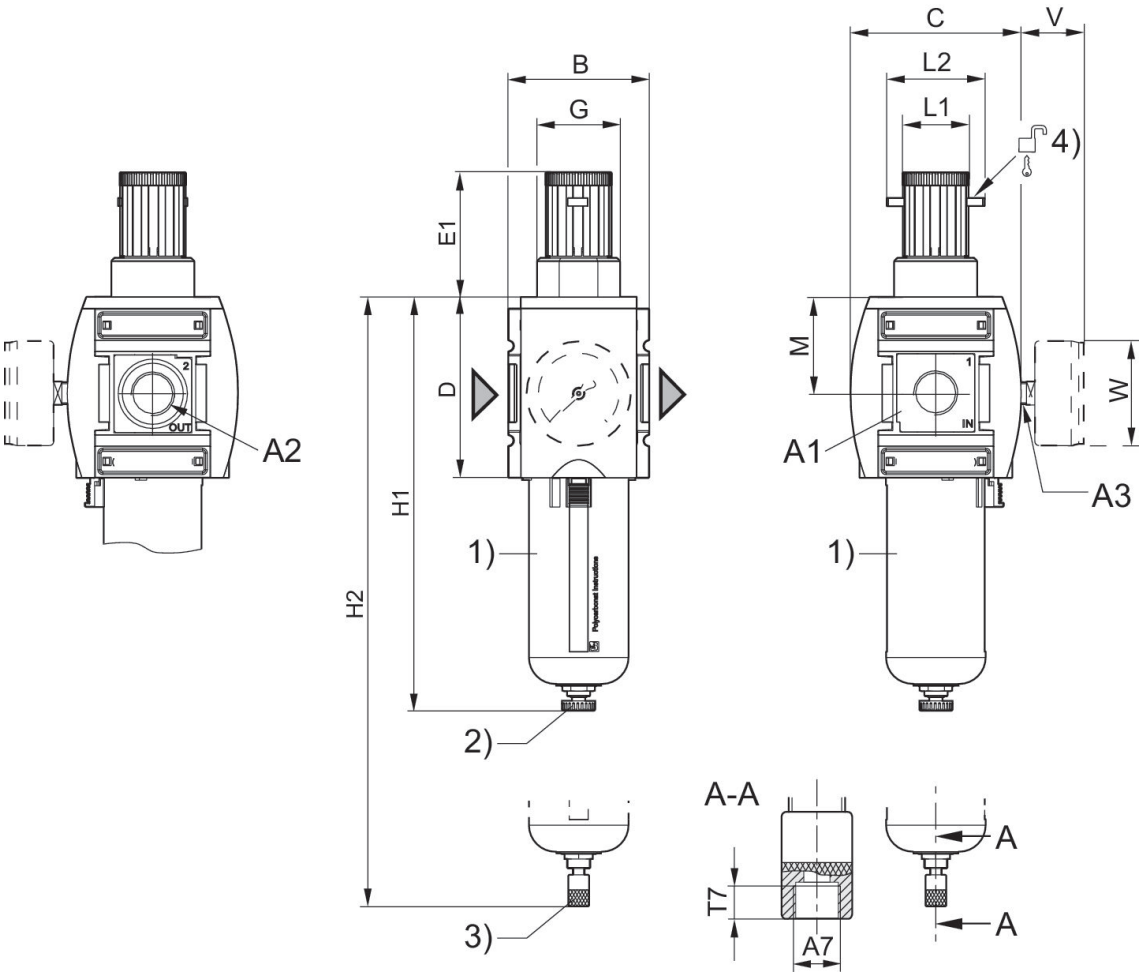
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Filter pressure regulator, Series AS5-FRE

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
: lockable
: for padlocks
Flow: 14000 l/min
Filter porosity: 40 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Condensate drain	Reservoir	Min. regulation range [bar]	Max. regulation range [bar]	Protective guard	Part No.
	G 3/4	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009218
	G 3/4	fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009219
	G 3/4	fully automatic, closed without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009220
	G 1	semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009221
	G 1	fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009222
	G 1	fully automatic, closed without pressure	reservoir, polycarbonate, with PA protective guard	0.5	10	Polyamide	R412009223

Dimensions



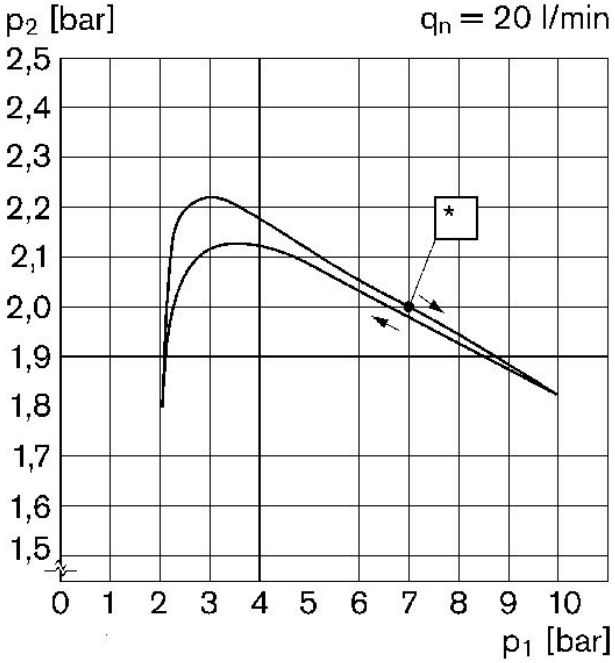
A1 = input A2 = output A3 = pressure gauge connection
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Semi-automatic condensate drain
3) Fully automatic condensate drain
4) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

Part No.	A1	A2	A3	A7	B	C	D	E1	G
R412009218	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009219	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009220	G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009221	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009222	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5
R412009223	G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5

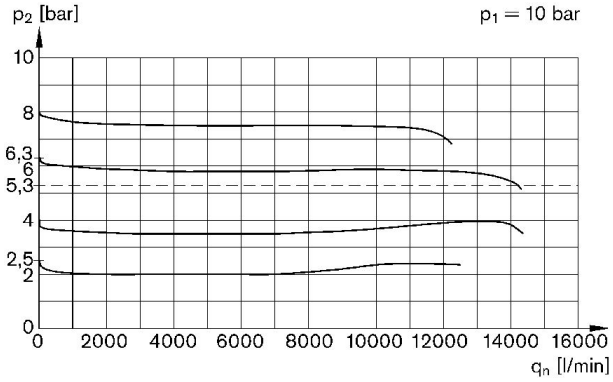
Part No.	H1	H2	L1	L2	M	T7	V	W
R412009218	250	266	41	60	58	8.5	38	63
R412009219	250	266	41	60	58	8.5	38	63
R412009220	250	266	41	60	58	8.5	38	63
R412009221	250	266	41	60	58	8.5	38	63
R412009222	250	266	41	60	58	8.5	38	63
R412009223	250	266	41	60	58	8.5	38	63

Pressure characteristics curve



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow
* starting point

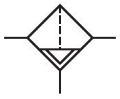
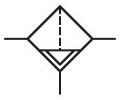
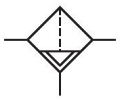
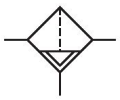
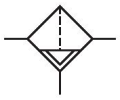
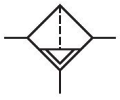
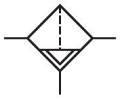
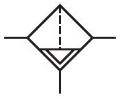
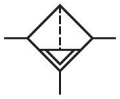
Flow rate characteristic (setting range p2: 0.5 - 8 bar)

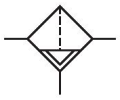
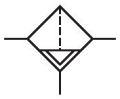
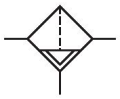


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

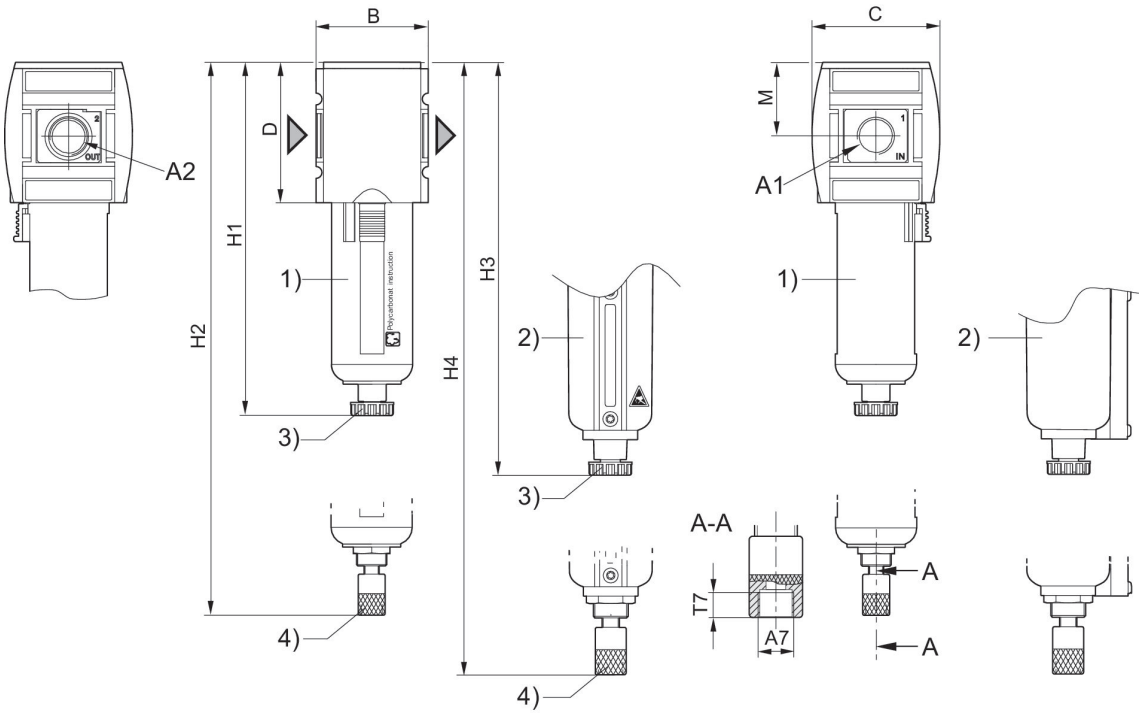
Filter, Series AS5-FLS

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 7800 l/min
Filter porosity: 5 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 3/4	7800	5	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Polyethylene	R412009000
	G 3/4	7800	5	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Polyethylene	R412009001
	G 3/4	7800	5	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Polyethylene	R412009002
	G 3/4	7800	5	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	Polyethylene	R412009006
	G 3/4	7800	5	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	Polyethylene	R412009007
	G 3/4	7800	5	fully auto-matic, closed without pres-sure	reservoir, metal, with inspection glass	Polyethylene	R412009008
	G 1	7800	5	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Polyethylene	R412009009
	G 1	7800	5	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Polyethylene	R412009010
	G 1	7800	5	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Polyethylene	R412009011

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 1	7800	5	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	Polyethylene	R412009015
	G 1	7800	5	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	Polyethylene	R412009016
	G 1	7800	5	fully auto-matic, closed without pres-sure	reservoir, metal, with inspection glass	Polyethylene	R412009017

Dimensions



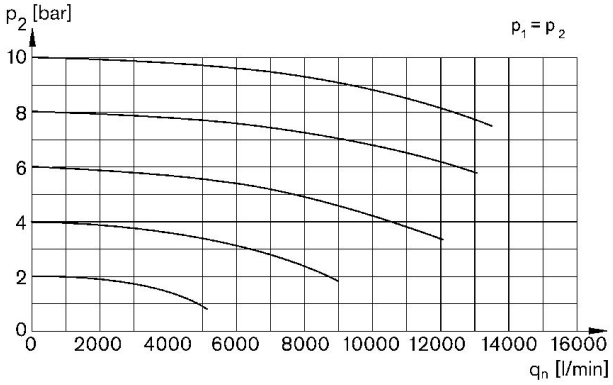
A1 = input A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

Dimensions in mm

Part No.	A1	A2	A7	B	C	D	H1	H2	H3
R412009000	G 3/4	G 3/4	G 1/8	85	103	109	250	266	254
R412009001	G 3/4	G 3/4	G 1/8	85	103	109	250	266	254
R412009002	G 3/4	G 3/4	G 1/8	85	103	109	250	266	254
R412009006	G 3/4	G 3/4	G 1/8	85	103	109	250	266	254
R412009007	G 3/4	G 3/4	G 1/8	85	103	109	250	266	254
R412009008	G 3/4	G 3/4	G 1/8	85	103	109	250	266	254
R412009009	G 1	G 1	G 1/8	85	103	109	250	266	254
R412009010	G 1	G 1	G 1/8	85	103	109	250	266	254
R412009011	G 1	G 1	G 1/8	85	103	109	250	266	254
R412009015	G 1	G 1	G 1/8	85	103	109	250	266	254
R412009016	G 1	G 1	G 1/8	85	103	109	250	266	254
R412009017	G 1	G 1	G 1/8	85	103	109	250	266	254

Part No.	H4	M	T7
R412009000	270.5	58	8.5
R412009001	270.5	58	8.5
R412009002	270.5	58	8.5
R412009006	270.5	58	8.5
R412009007	270.5	58	8.5
R412009008	270.5	58	8.5
R412009009	270.5	58	8.5
R412009010	270.5	58	8.5
R412009011	270.5	58	8.5
R412009015	270.5	58	8.5
R412009016	270.5	58	8.5
R412009017	270.5	58	8.5

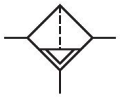
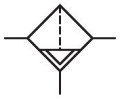
Flow rate characteristic, p2 = 0,05 - 7 bar



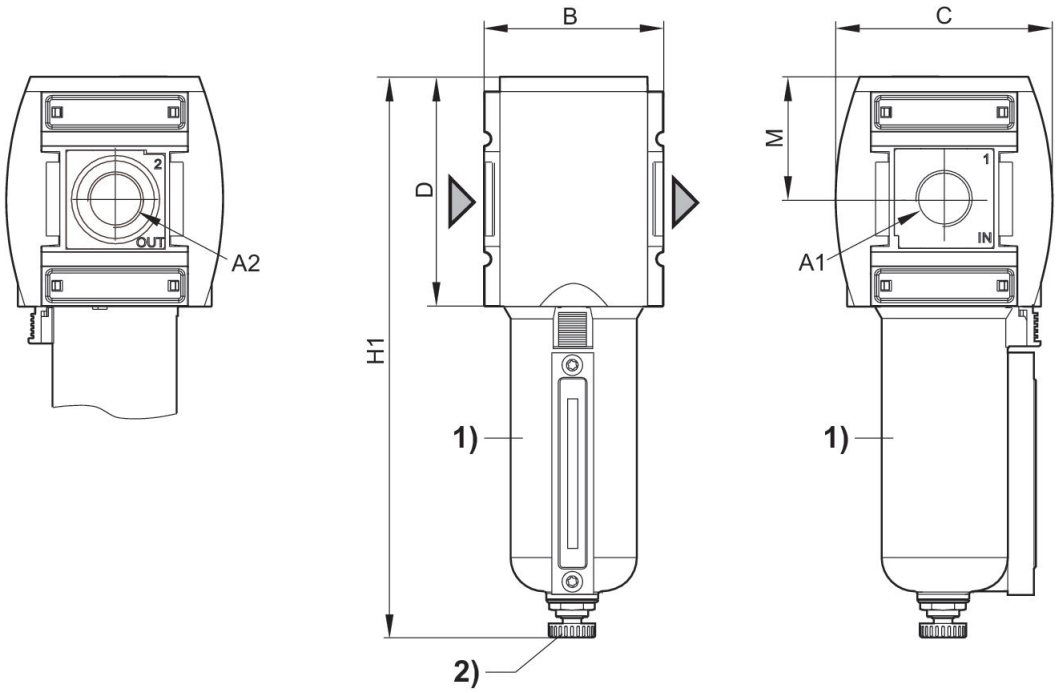
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Filter, Series AS5-FLS

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Filter porosity: 25 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 3/4	7800	25	semi-auto-matic, open without pres-sure	Metal reser-voir without window	Polyethylene	R412009089
	G 1	7800	25	semi-auto-matic, open without pres-sure	Metal reser-voir without window	Polyethylene	R412009090

Dimensions

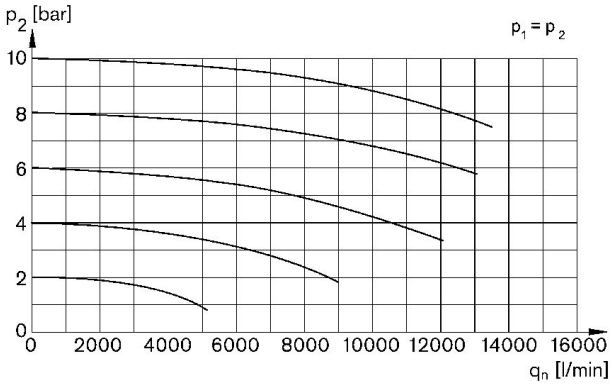


A1 = input A2 = output
1) Metal reservoir with level indicator
2) Semi-automatic condensate drain

Dimensions in mm

Part No.	A1	A2	B	C	D	H1	M
R412009089	G 3/4	G 3/4	85	103	109	250	58
R412009090	G 1	G 1	85	103	109	250	58

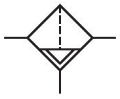
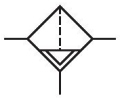
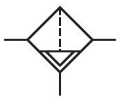
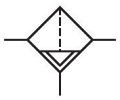
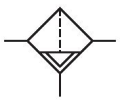
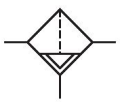
Flow rate characteristic, p2 = 0,05 - 7 bar



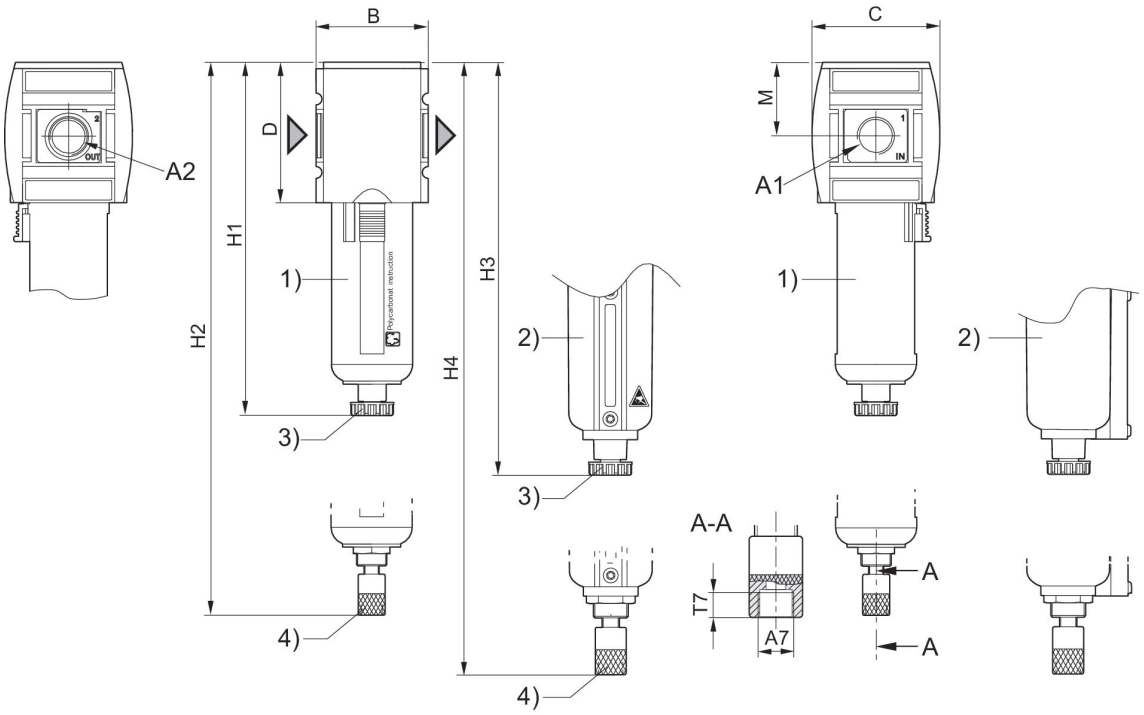
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Filter, Series AS5-FLS

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 7800 l/min
Filter porosity: 40 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 3/4	7800	40	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Sintered bronze	R412009003
	G 3/4	7800	40	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Sintered bronze	R412009004
	G 3/4	7800	40	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Sintered bronze	R412009005
	G 1	7800	40	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Sintered bronze	R412009012
	G 1	7800	40	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Sintered bronze	R412009013
	G 1	7800	40	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Sintered bronze	R412009014

Dimensions



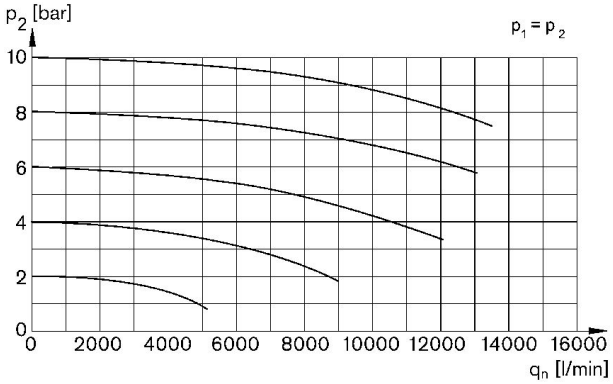
A1 = input A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

Dimensions in mm

Part No.	A1	A2	A7	B	C	D	H1	H2	H3
R412009003	G 3/4	G 3/4	G 1/8	85	103	109	250	266	254
R412009004	G 3/4	G 3/4	G 1/8	85	103	109	250	266	254
R412009005	G 3/4	G 3/4	G 1/8	85	103	109	250	266	254
R412009012	G 1	G 1	G 1/8	85	103	109	250	266	254
R412009013	G 1	G 1	G 1/8	85	103	109	250	266	254
R412009014	G 1	G 1	G 1/8	85	103	109	250	266	254

Part No.	H4	M	T7
R412009003	270.5	58	8.5
R412009004	270.5	58	8.5
R412009005	270.5	58	8.5
R412009012	270.5	58	8.5
R412009013	270.5	58	8.5
R412009014	270.5	58	8.5

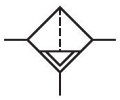
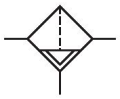
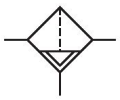
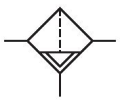
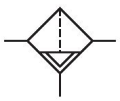
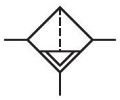
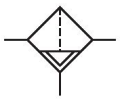
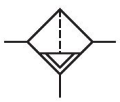
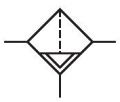
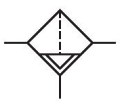
Flow rate characteristic, p2 = 0,05 - 7 bar

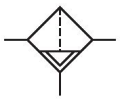
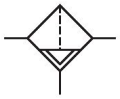


p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

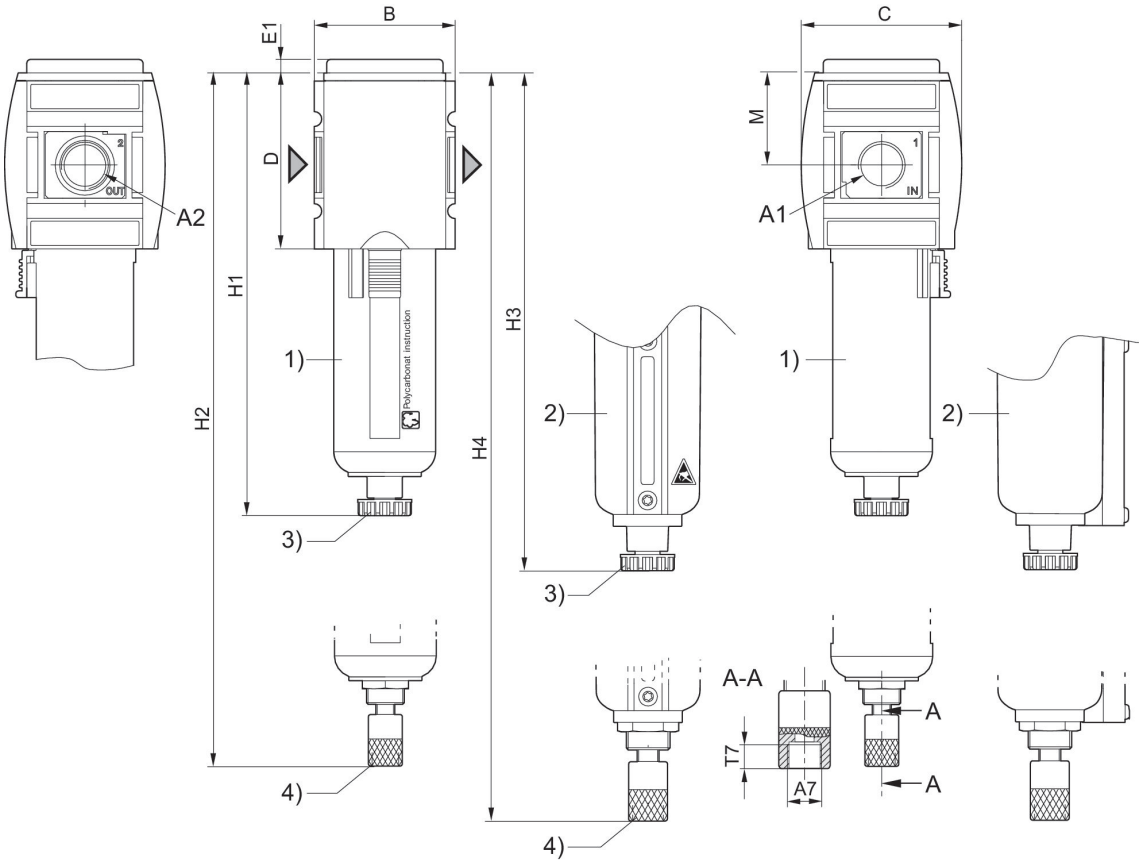
Pre-filter, Series AS5-FLP

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 2200 l/min
Filter porosity: 0.3 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 3/4	2200	0.3	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009018
	G 3/4	2200	0.3	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009019
	G 3/4	2200	0.3	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009020
	G 3/4	2200	0.3	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009024
	G 3/4	2200	0.3	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009025
	G 3/4	2200	0.3	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009026
	G 1	2200	0.3	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009027
	G 1	2200	0.3	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009028
	G 1	2200	0.3	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009029
	G 1	2200	0.3	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA	Impregnated paper	R412009033

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
					protective guard		
	G 1	2200	0.3	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009034
	G 1	2200	0.3	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009035

Dimensions



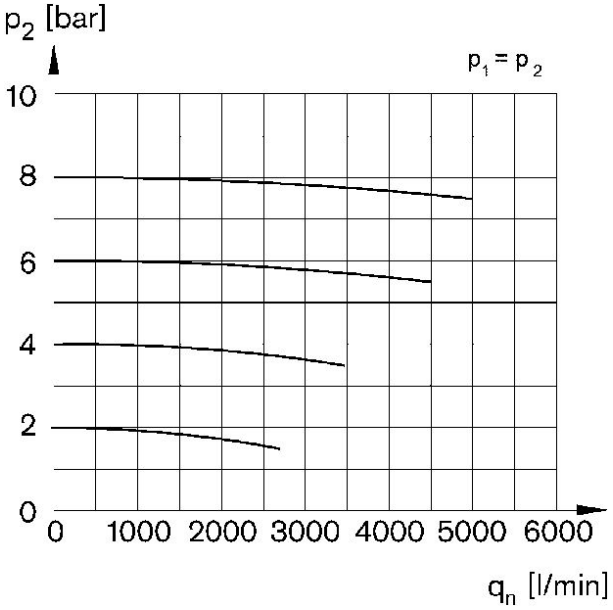
A1 = input A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

Dimensions in mm

Part No.	A1	A2	A7	B	C	D	E1	H1	H2
R412009018	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009019	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009020	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009024	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009025	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009026	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009027	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009028	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009029	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009033	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009034	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009035	G 1	G 1	G 1/8	85	103	109	5	250	266

Part No.	H3	H4	M	T7
R412009018	254	270.5	58	8.5
R412009019	254	270.5	58	8.5
R412009020	254	270.5	58	8.5
R412009024	254	270.5	58	8.5
R412009025	254	270.5	58	8.5
R412009026	254	270.5	58	8.5
R412009027	254	270.5	58	8.5
R412009028	254	270.5	58	8.5
R412009029	254	270.5	58	8.5
R412009033	254	270.5	58	8.5
R412009034	254	270.5	58	8.5
R412009035	254	270.5	58	8.5

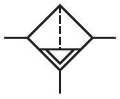
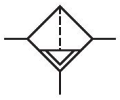
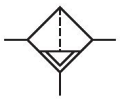
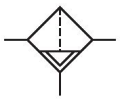
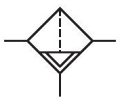
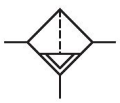
Flow rate characteristic, p2 = 0,05 - 7 bar



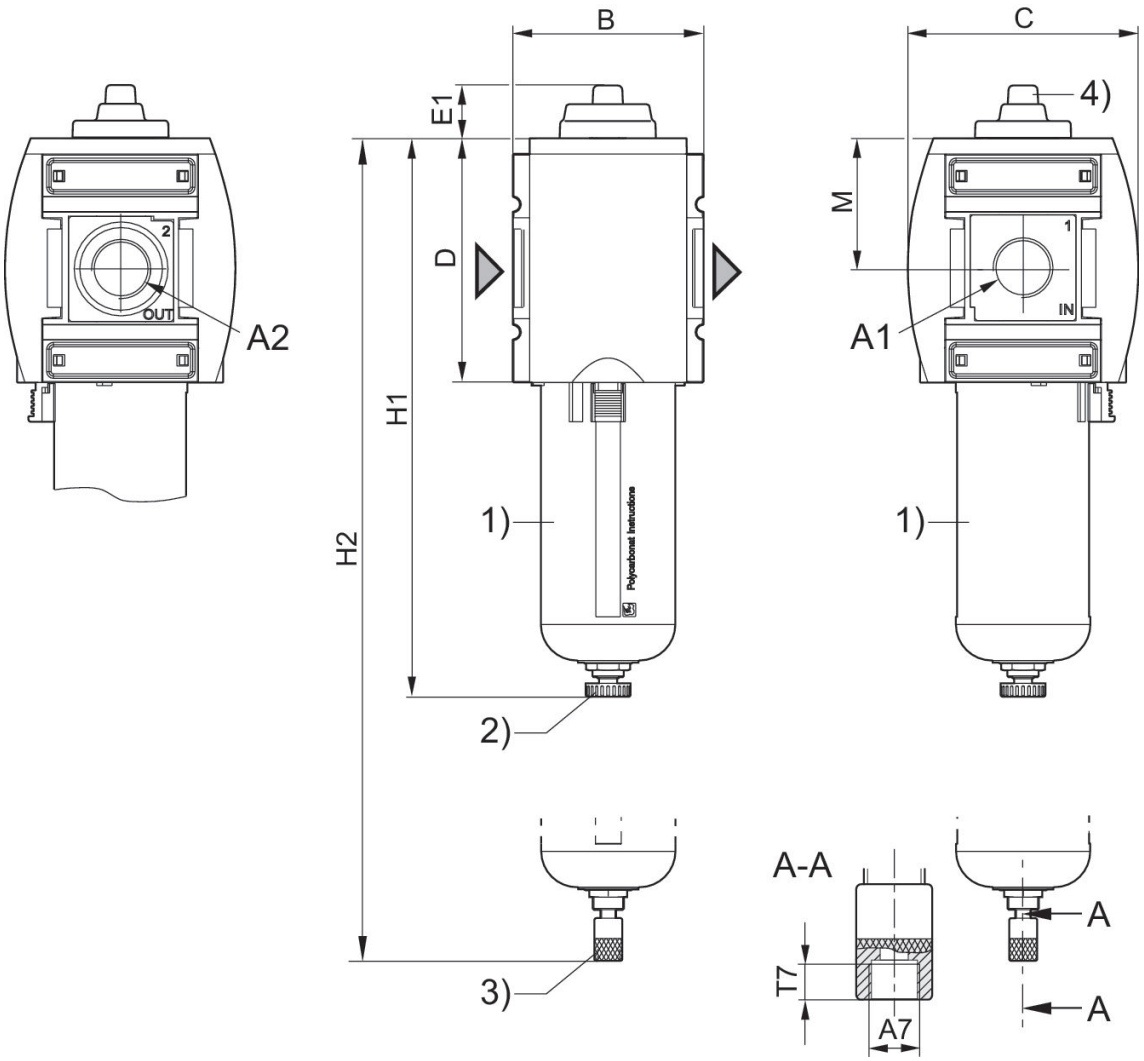
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Pre-filter, Series AS5-FLP

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 2200 l/min
Filter porosity: 0.3 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 3/4	2200	0.3	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009021
	G 3/4	2200	0.3	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009022
	G 3/4	2200	0.3	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009023
	G 1	2200	0.3	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009030
	G 1	2200	0.3	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009031
	G 1	2200	0.3	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Impregnated paper	R412009032

Dimensions



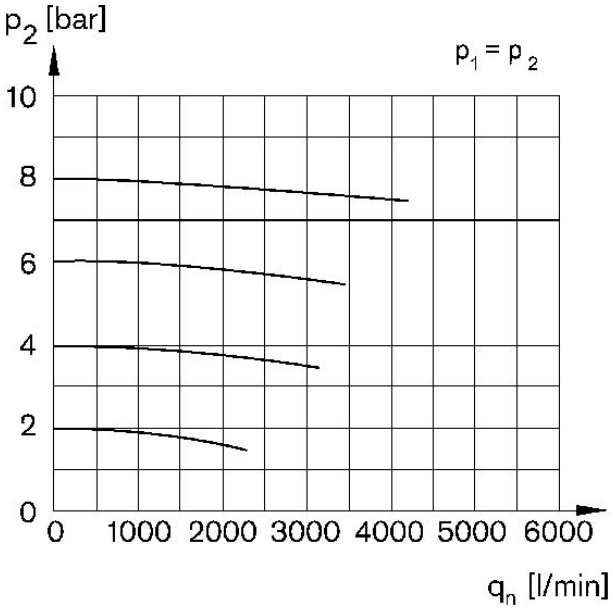
A1 = input A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Semi-automatic condensate drain
3) Fully automatic condensate drain
4) contamination display

Dimensions in mm

Part No.	A1	A2	A7	B	C	D	E1	H1	H2
R412009021	G 3/4	G 3/4	G 1/8	85	103	109	23.7	250	266
R412009022	G 3/4	G 3/4	G 1/8	85	103	109	23.7	250	266
R412009023	G 3/4	G 3/4	G 1/8	85	103	109	23.7	250	266
R412009030	G 1	G 1	G 1/8	85	103	109	23.7	250	266
R412009031	G 1	G 1	G 1/8	85	103	109	23.7	250	266
R412009032	G 1	G 1	G 1/8	85	103	109	23.7	250	266

Part No.	M	T7
R412009021	58	8.5
R412009022	58	8.5
R412009023	58	8.5
R412009030	58	8.5
R412009031	58	8.5
R412009032	58	8.5

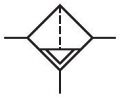
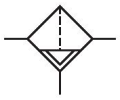
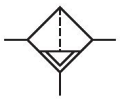
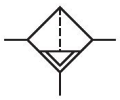
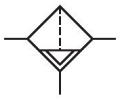
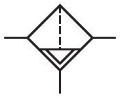
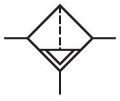
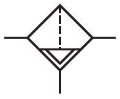
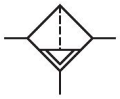
Flow rate characteristic, p2 = 0,05 - 7 bar

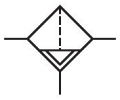
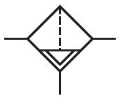
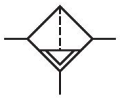


p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

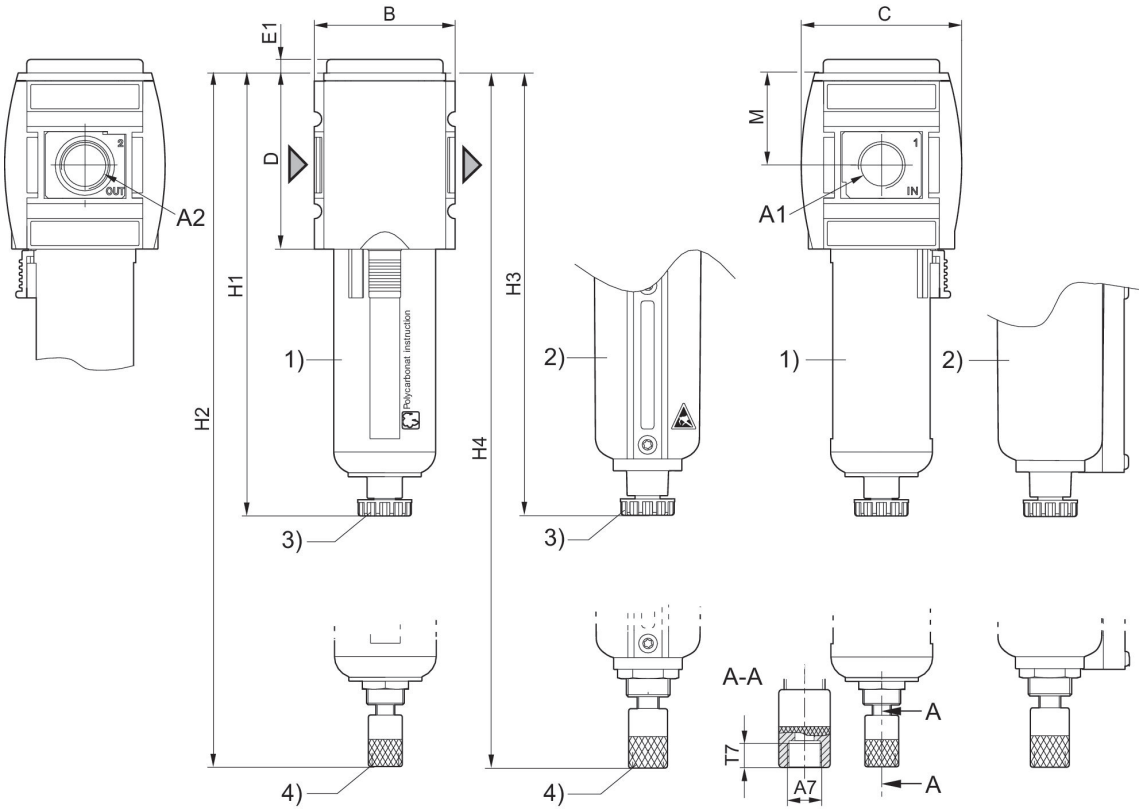
Microfilter, Series AS5-FLC

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 1600 l/min
Filter porosity: 0.01 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 3/4	1600	0.01	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009036
	G 3/4	1600	0.01	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009037
	G 3/4	1600	0.01	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009038
	G 3/4	1600	0.01	semi-auto-matic, open without pres-sure	Metal reser-voir without window	Borosilicate glass fiber	R412009042
	G 3/4	1600	0.01	fully automat-ic, open with-out pressure	Metal reser-voir without window	Borosilicate glass fiber	R412009043
	G 3/4	1600	0.01	fully auto-matic, closed without pres-sure	Metal reser-voir without window	Borosilicate glass fiber	R412009044
	G 1	1600	0.01	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009045
	G 1	1600	0.01	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009046
	G 1	1600	0.01	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009047

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 1	1600	0.01	semi-auto-matic, open without pres-sure	Metal reser-voir without window	Borosilicate glass fiber	R412009051
	G 1	1600	0.01	fully auto-matic, closed without pres-sure	Metal reser-voir without window	Borosilicate glass fiber	R412009052
	G 1	1600	0.01	fully auto-matic, closed without pres-sure	Metal reser-voir without window	Borosilicate glass fiber	R412009053

Dimensions



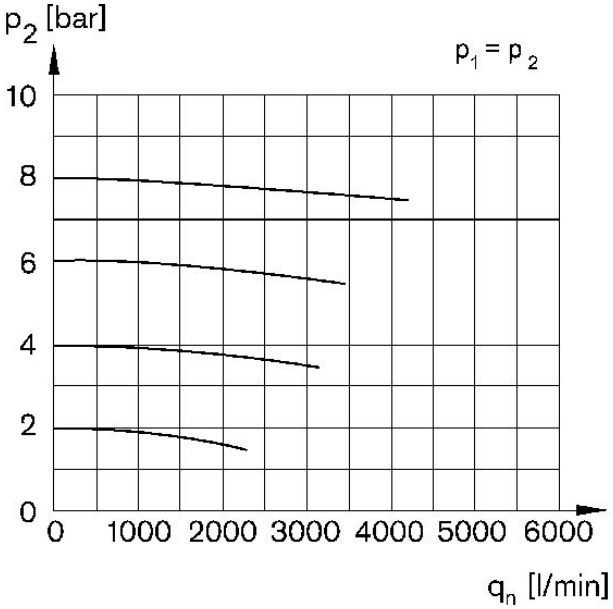
A1 = input A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

Dimensions in mm

Part No.	A1	A2	A7	B	C	D	E1	H1	H2
R412009036	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009037	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009038	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009042	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009043	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009044	G 3/4	G 3/4	G 1/8	85	103	109	5	250	266
R412009045	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009046	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009047	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009051	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009052	G 1	G 1	G 1/8	85	103	109	5	250	266
R412009053	G 1	G 1	G 1/8	85	103	109	5	250	266

Part No.	H3	H4	M	T7
R412009036	254	270	58	8.5
R412009037	254	270	58	8.5
R412009038	254	270	58	8.5
R412009042	254	270	58	8.5
R412009043	254	270	58	8.5
R412009044	254	270	58	8.5
R412009045	254	270	58	8.5
R412009046	254	270	58	8.5
R412009047	254	270	58	8.5
R412009051	254	270	58	8.5
R412009052	254	270	58	8.5
R412009053	254	270	58	8.5

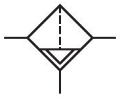
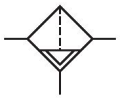
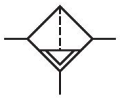
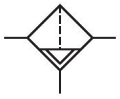
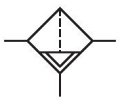
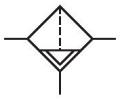
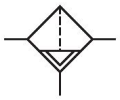
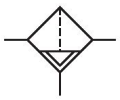
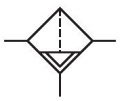
Flow rate characteristic, p2 = 0,05 - 7 bar

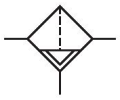
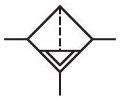
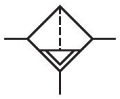


p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

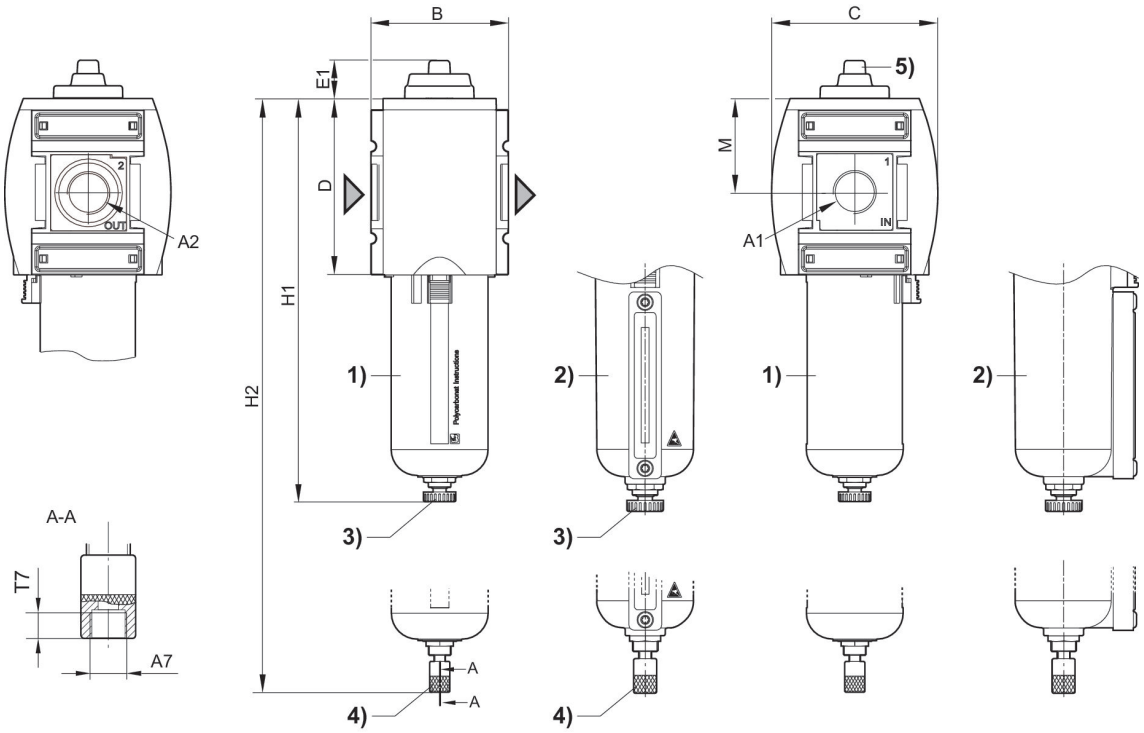
Microfilter, Series AS5-FLC

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 1600 l/min
Filter porosity: 0.01 µm
Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 3/4	1600	0.01	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009054
	G 3/4	1600	0.01	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	Borosilicate glass fiber	R412009060
	G 3/4	1600	0.01	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009055
	G 3/4	1600	0.01	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009056
	G 3/4	1600	0.01	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	Borosilicate glass fiber	R412009061
	G 3/4	1600	0.01	fully auto-matic, closed without pres-sure	reservoir, metal, with inspection glass	Borosilicate glass fiber	R412009062
	G 1	1600	0.01	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009063
	G 1	1600	0.01	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	Borosilicate glass fiber	R412009069
	G 1	1600	0.01	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009064

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 1	1600	0.01	fully auto-matic, closed without pres-sure	reservoir, polycarbon-ate, with PA protective guard	Borosilicate glass fiber	R412009065
	G 1	1600	0.01	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	Borosilicate glass fiber	R412009070
	G 1	1600	0.01	fully auto-matic, closed without pres-sure	reservoir, metal, with inspection glass	Borosilicate glass fiber	R412009071

Dimensions



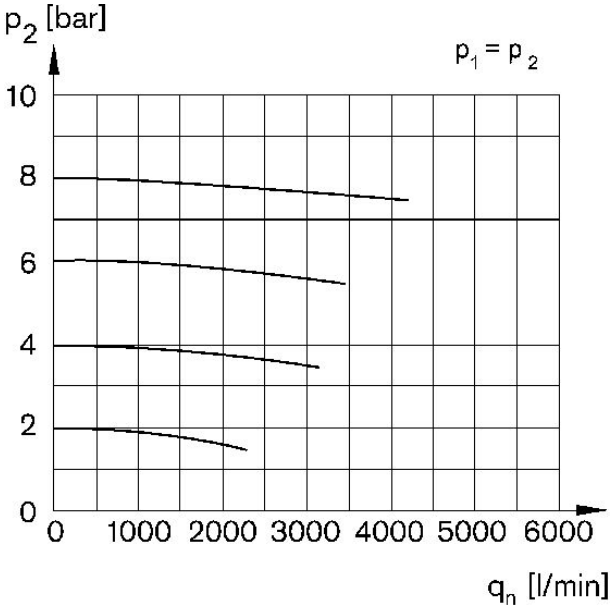
A1 = input A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain
5) contamination display

Dimensions in mm

Part No.	A1	A2	A7	B	C	D	E1	H1	H2
R412009054	G 3/4	G 3/4	G 1/8	85	103	109	23.7	250	--
R412009055	G 3/4	G 3/4	--	85	103	109	23.7	--	266
R412009056	G 3/4	G 3/4	--	85	103	109	23.7	--	266
R412009063	G 1	G 1	G 1/8	85	103	109	23.7	250	--
R412009064	G 1	G 1	--	85	103	109	23.7	--	266
R412009065	G 1	G 1	--	85	103	109	23.7	--	266
R412009060	G 3/4	G 3/4	G 1/8	85	103	109	23.7	250	--
R412009061	G 3/4	G 3/4	--	85	103	109	23.7	--	266
R412009062	G 3/4	G 3/4	--	85	103	109	23.7	--	266
R412009069	G 1	G 1	G 1/8	85	103	109	23.7	250	--
R412009070	G 1	G 1	--	85	103	109	23.7	--	266
R412009071	G 1	G 1	--	85	103	109	23.7	--	266

Part No.	M	T7
R412009054	58	8.5
R412009055	58	--
R412009056	58	--
R412009063	58	8.5
R412009064	58	--
R412009065	58	--
R412009060	58	8.5
R412009061	58	--
R412009062	58	--
R412009069	58	8.5
R412009070	58	--
R412009071	58	--

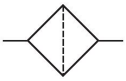
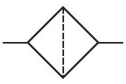
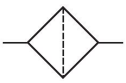
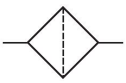
Flow rate characteristic, p2 = 0,05 - 7 bar



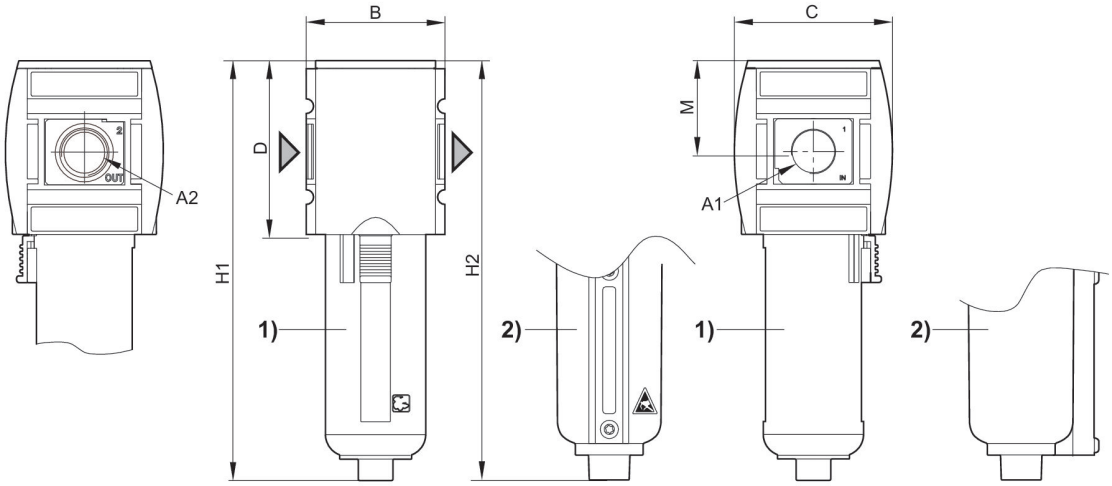
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Active carbon filter, Series AS5-FLA

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 1700 l/min
Filter reservoir volume: 87 cm³
Condensate drain: without
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 3/4	1700	without	reservoir, polycarbon-ate, with PA protective guard	Active carbon	R412009072
	G 3/4	1700	without	reservoir, metal, with inspection glass	Active carbon	R412009074
	G 1	1700	without	reservoir, polycarbon-ate, with PA protective guard	Active carbon	R412009075
	G 1	1700	without	reservoir, metal, with inspection glass	Active carbon	R412009077

Dimensions

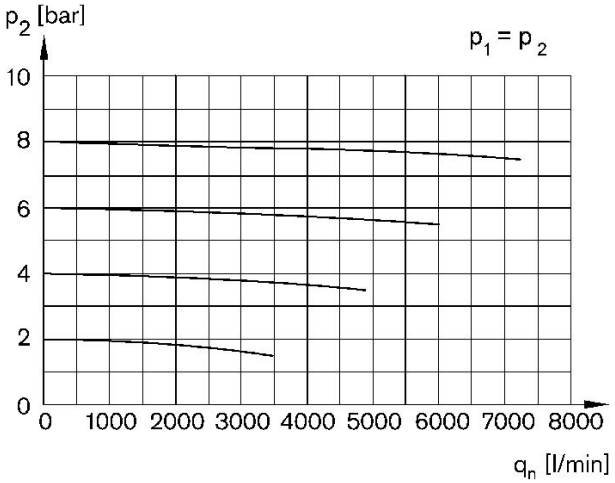


A1 = input A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass

Dimensions in mm

Part No.	A1	A2	B	C	D	H1	H2	M
R412009072	G 3/4	G 3/4	85	103	109	242	246	58
R412009074	G 3/4	G 3/4	85	103	109	242	246	58
R412009075	G 1	G 1	85	103	109	242	246	58
R412009077	G 1	G 1	85	103	109	242	246	58

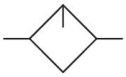
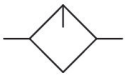
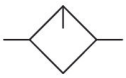
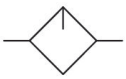
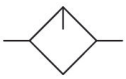
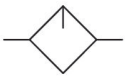
Flow rate characteristic, p2 = 0,05 - 7 bar



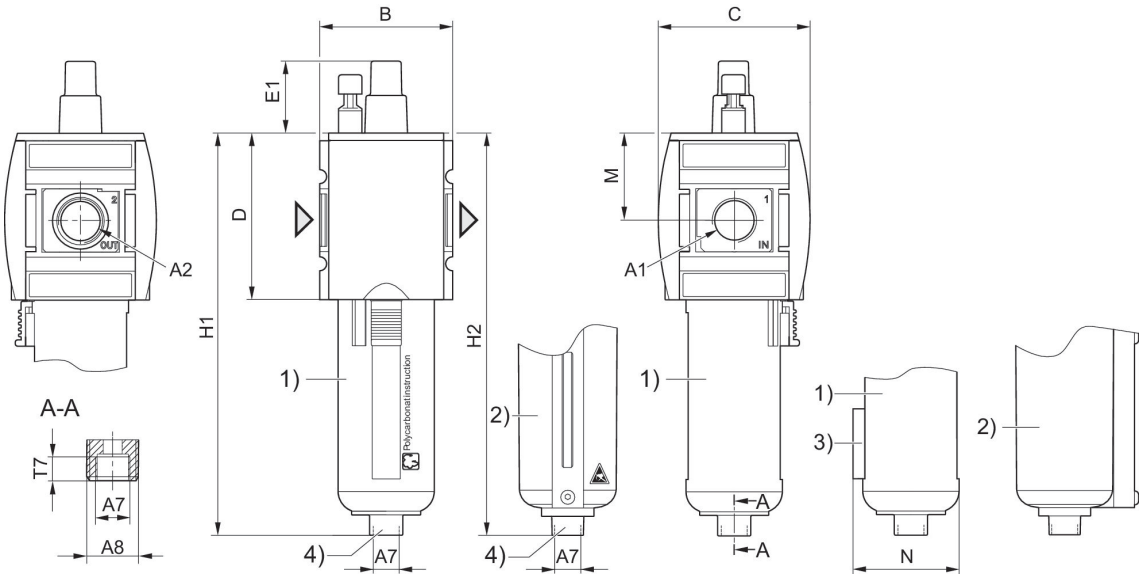
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Standard oil-mist lubricator, Series AS5-LBS

Mounting orientation: vertical
: Can be assembled into blocks
Flow: 15800 l/min
Lubricator reservoir volume: 181 cm³
Type of filling: Semi-automatic oil filling during operation, Manual oil filling
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Reservoir	Lubricator reservoir volume [cm³]	Part No.
	G 3/4	15800	reservoir, PA, with PA protective guard	181	R412009225
	G 3/4	15800	reservoir, metal, standard, with inspection glass	181	R412009229
	G 3/4	15800	reservoir, PA, with PA protective guard	181	R412009226
	G 1	15800	reservoir, PA, with PA protective guard	181	R412009231
	G 1	15800	reservoir, metal, standard, with inspection glass	181	R412009235
	G 1	15800	reservoir, PA, with PA protective guard	181	R412009232

Dimensions



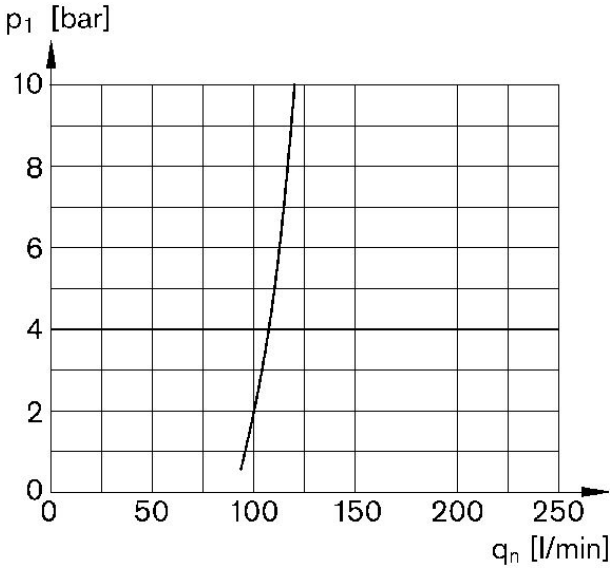
A1 = input A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Holder for sensor
4) Port for semi-automatic oil filling

Dimensions in mm

Part No. G 3/4	A1	A2	A7	A8	B	C	D	E1	H1
R412009225	G 3/4	G 3/4	G 1/8	G 1/4	85	103	109	30.5	239
R412009226	G 3/4	G 3/4	G 1/8	G 1/4	85	103	109	30.5	239
R412009229	G 3/4	G 3/4	G 1/8	G 1/4	85	103	109	30.5	239
R412009231	G 1	G 1	G 1/8	G 1/4	85	103	109	30.5	239
R412009232	G 1	G 1	G 1/8	G 1/4	85	103	109	30.5	239
R412009235	G 1	G 1	G 1/8	G 1/4	85	103	109	30.5	239

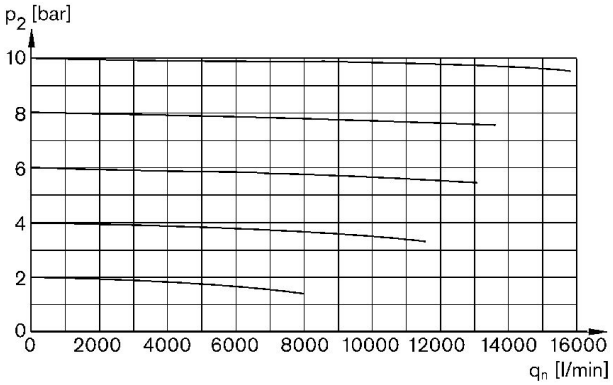
Part No. G 3/4	H2	M	T7
R412009225	243	58	8.5
R412009226	243	58	8.5
R412009229	243	58	8.5
R412009231	243	58	8.5
R412009232	243	58	8.5
R412009235	243	58	8.5

Lubricator activation margin



p1 = working pressure qn = nominal flow

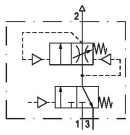
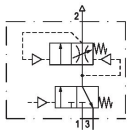
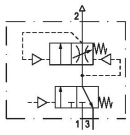
Flow rate characteristic, p2 = 0,05 - 7 bar



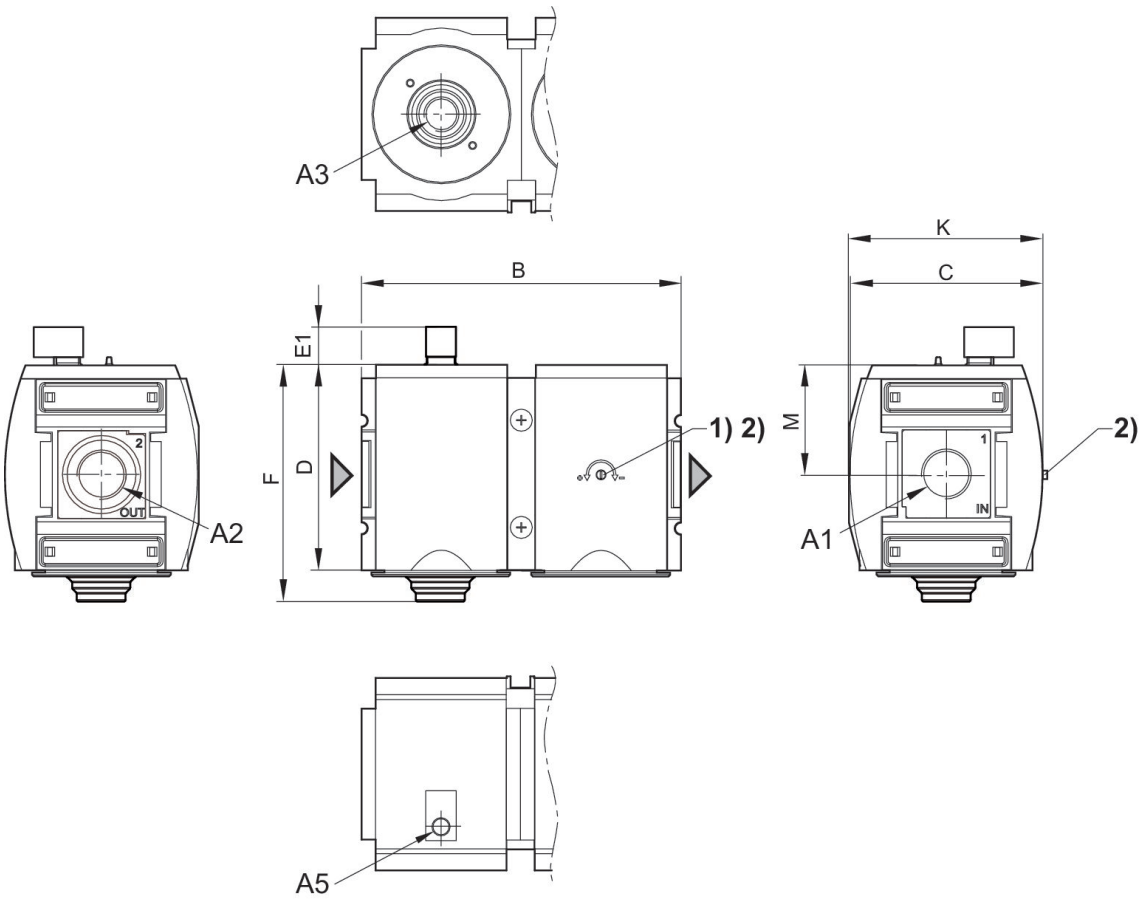
p2 = secondary pressure qn = nominal flow

Filling unit, pneumatically operated, Series AS5-SSU

: Can be assembled into blocks
Flow: 8750 l/min
Activation: Pneumatically
Qn 1 > 2: 8750 l/min
Compressed air connection type: Internal thread
Min. control pressure: 2.5 bar
Max. control pressure: 16 bar
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 3/4	8750	R412009276
	G 1	8750	R412009281
	G 1	8750	R412009289

Dimensions



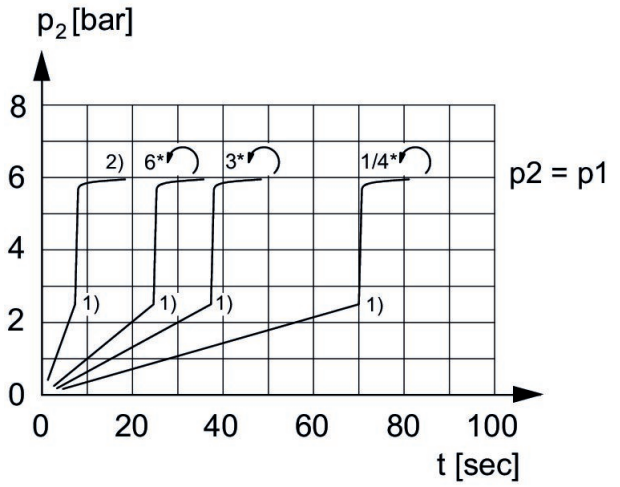
A1 = input A2 = output A3 = ventilation port A5 = control pressure connection
1) Adjustment screw for filling time
2) Adjustment screw lock

Dimensions in mm

Part No.	A1	A2	A3	A5	B	C	D	E1	F
R412009276	G 3/4	G 3/4	G 1/2	G 1/8	170	103	109	20.2	125
R412009281	G 1	G 1	G 1/2	G 1/8	170	103	109	20.2	125
R412009289	G 1	G 1	G 1/2	G 1/8	170	103	109	20.2	125

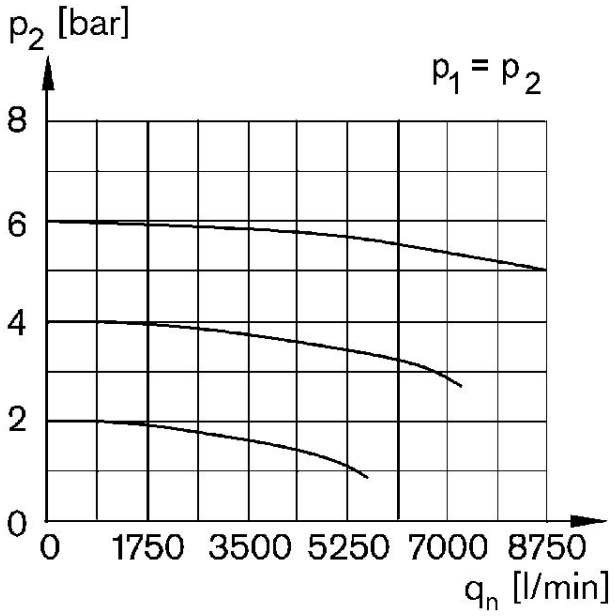
Part No.	K	M
R412009276	103.5	58
R412009281	103.5	58
R412009289	103.5	58

Secondary pressure while filling



p1 = Working pressure
p2 = Secondary pressure
t = filling time, adjustable via adjustment screw (throttle)
1) Switching point: adjustable filling time, fixed change-over pressure ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

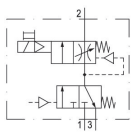
Flow rate characteristic, p2 = 0,05 - 7 bar



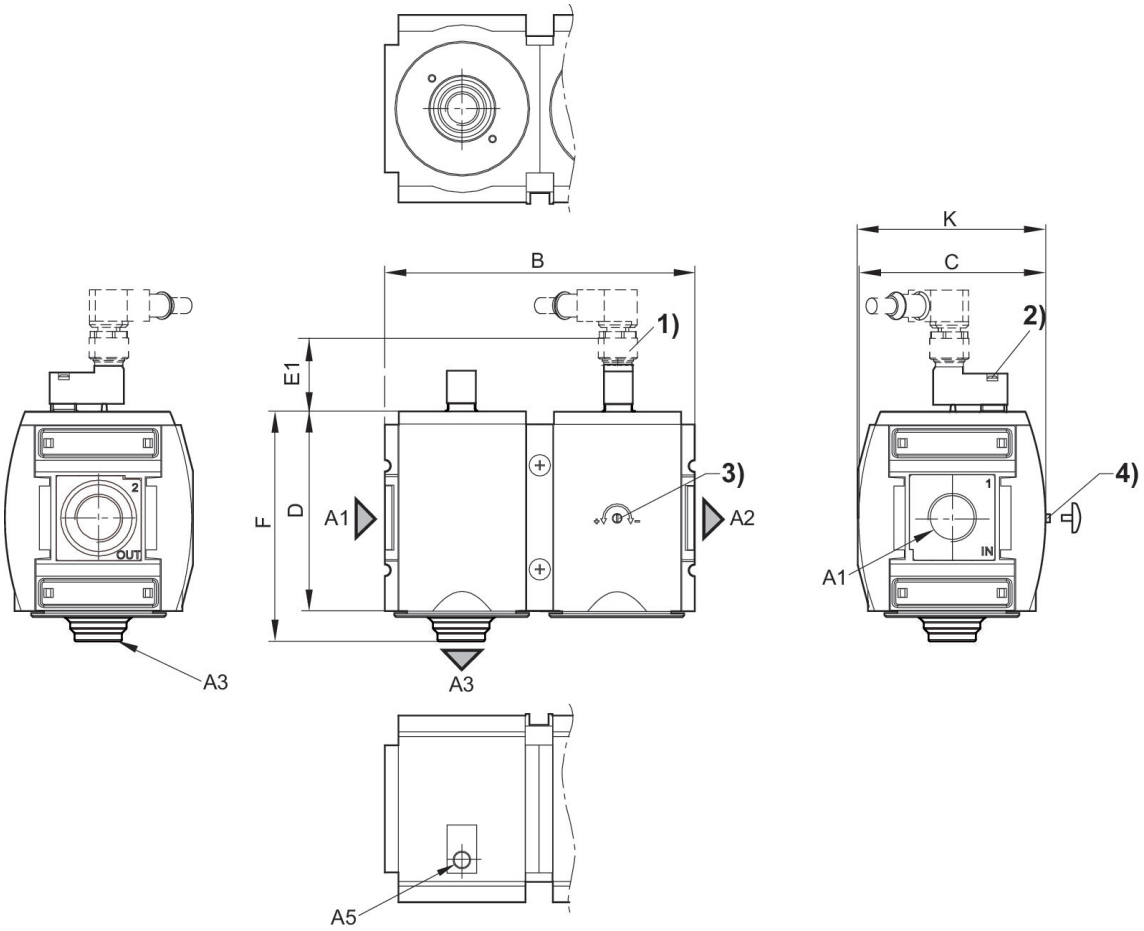
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Filling unit, pneumatically operated, Series AS5-SSU

: Can be assembled into blocks
Activation: Pneumatically
Compressed air connection input: G 1
Compressed air connection output: G 1
Compressed air connection, exhaust: G 1/2
Min. control pressure: 2.5 bar
Max. control pressure: 16 bar
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 1	8750	R412009379

Dimensions



A1 = input A2 = output A3 = ventilation port A5 = control pressure connection
1) plug M12
2) Manual override
3) Adjustment screw for filling time
4) Adjustment screw lock

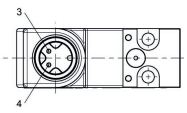
Dimensions in mm

Part No.	A1	A2	A3	A5	B	C	D	E1	F
R412009379	G 1	G 1	G 1/2	G 1/8	170	103	109	39	125

Part No.	K
R412009379	103.5

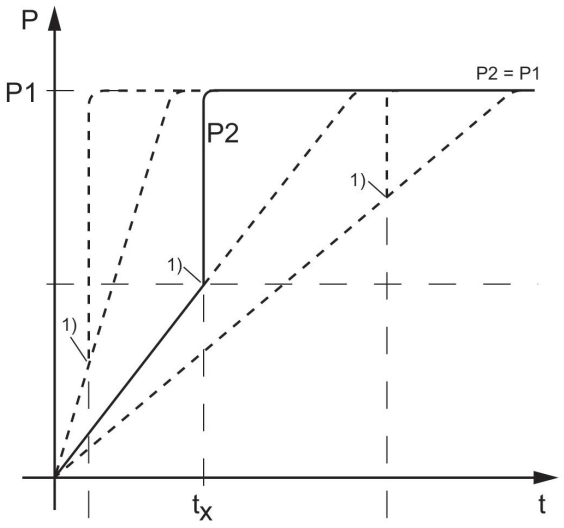
R412009379

Pin assignment M12x1



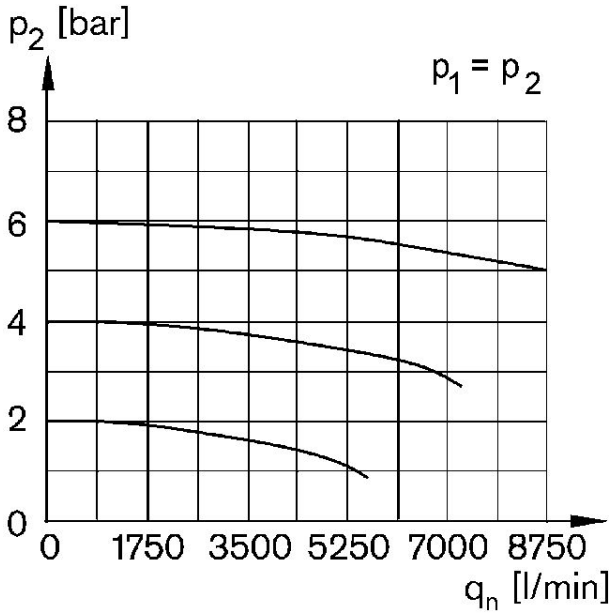
3: +/-
4: +/-

Secondary pressure while filling



p1 = Working pressure
p2 = Secondary pressure
t = filling time
tx = switchover time
1) Electrically triggered switching point
Filling time adjustable via adjustment screw (throttle)

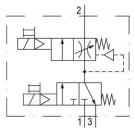
Flow rate characteristic, p2 = 0,05 - 7 bar



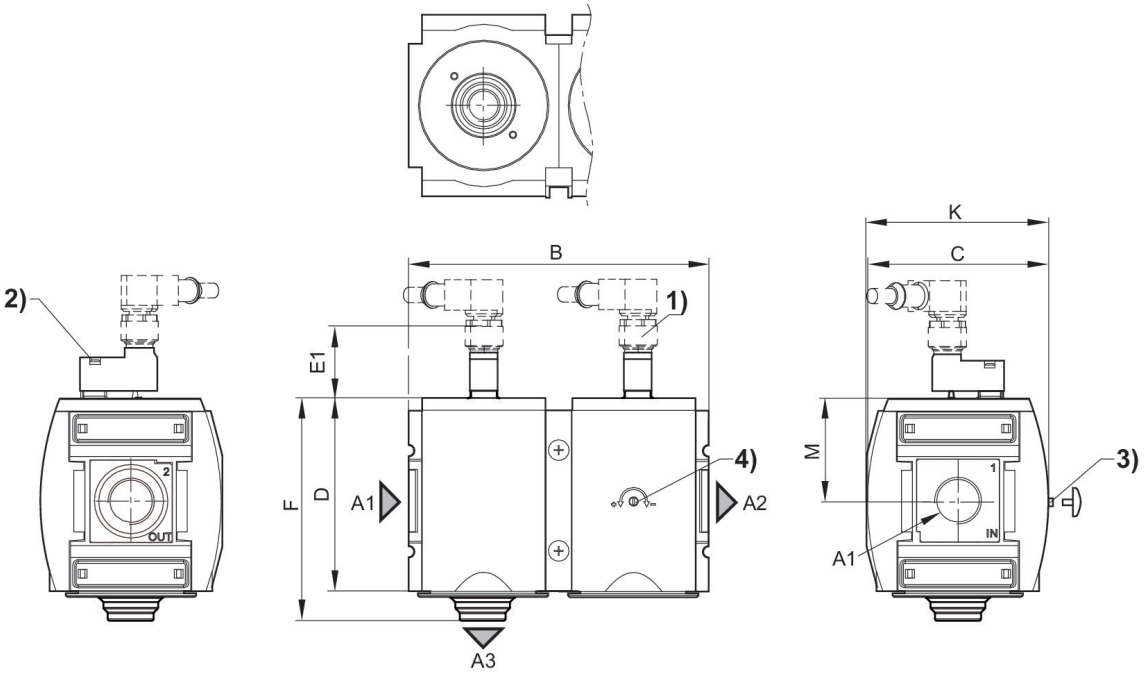
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Filling unit, electrically operated, Series AS5-SSU

: Can be assembled into blocks
Flow: 8750 l/min
Activation: Electrically
Electrical connection 2, thread size: M12x1
Qn 1 > 2: 8750 l/min
Compressed air connection input: G 1
Compressed air connection output: G 1
Compressed air connection, exhaust: G 1/2
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 9 bar

	Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
	G 1	8750	24 V DC	Basic valve with pilot valve	24 V	R412009381

Dimensions



A1 = input A2 = output A3 = ventilation port
1) plug M12
2) Manual override
3) Adjustment screw lock
4) Adjustment screw for filling time

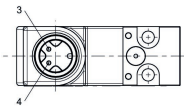
Dimensions in mm

Part No.	A1	A2	A3	B	C	D	E1	F	K
R412009381	G 1	G 1	G 1/2	170	103	109	39	125	103.5
tablefooter re-peatcolumn									

M
58

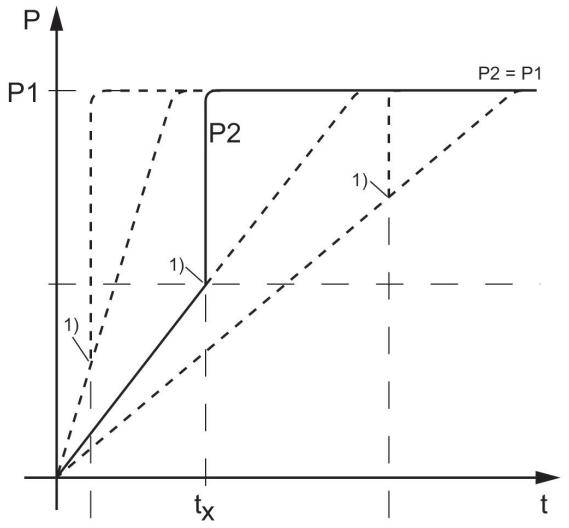
R412009381

Pin assignment M12x1



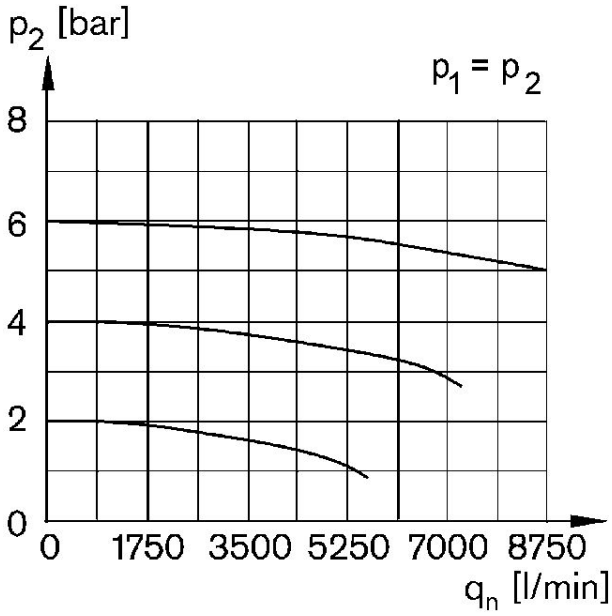
3: +/-
4: +/-

Secondary pressure while filling



p1 = Working pressure
p2 = Secondary pressure
t = filling time
tx = switchover time
1) Electrically triggered switching point
Filling time adjustable via adjustment screw (throttle)

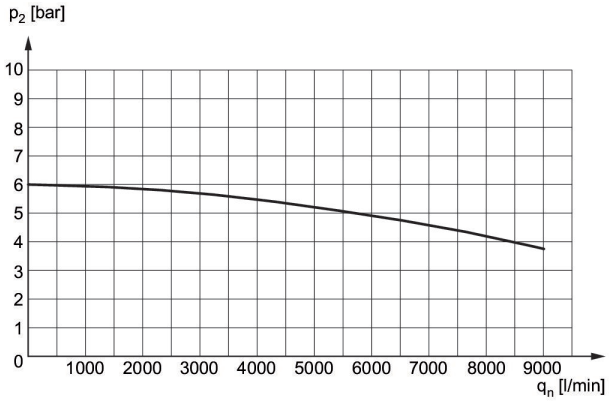
Flow rate characteristic, p2 = 0,05 - 7 bar



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

Rear exhaust

2 > 3



p2 = secondary pressure qn = nominal flow

Filling unit, electrically operated, Series AS5-SSU

: Can be assembled into blocks
Flow: 8750 l/min
Activation: Electrically
Qn 1 > 2: 8750 l/min
Compressed air connection type: Internal thread
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar

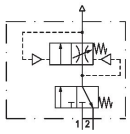
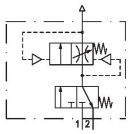
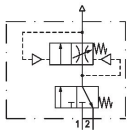
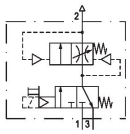
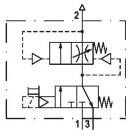
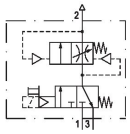
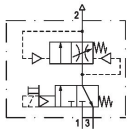
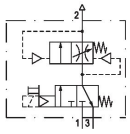
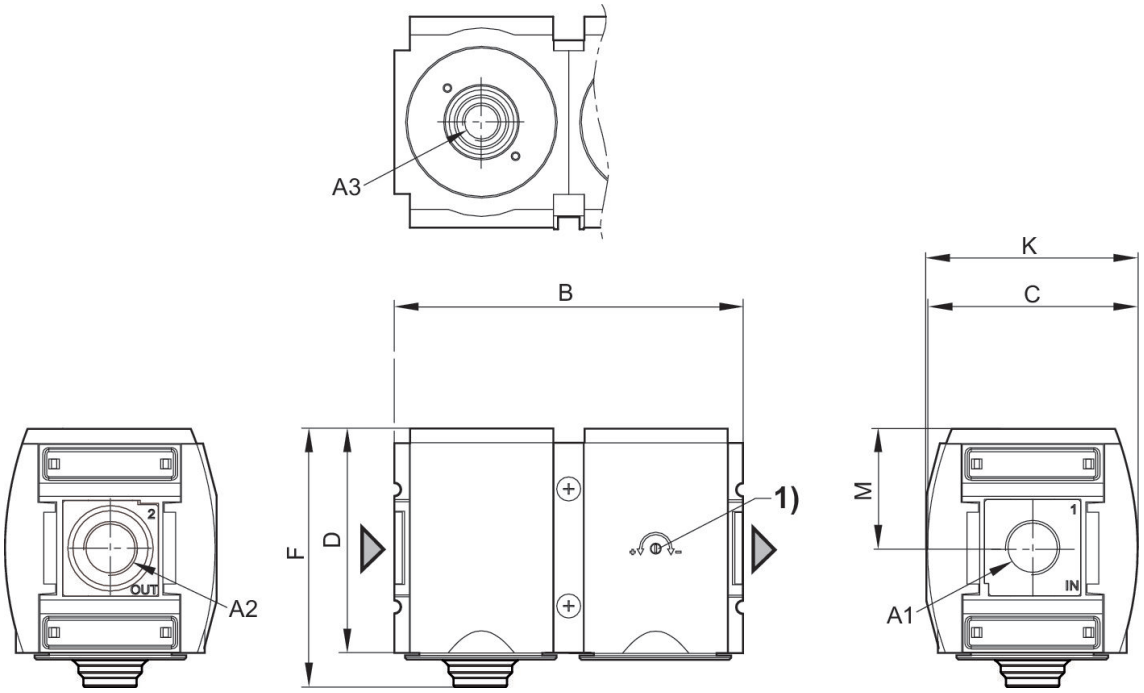
	Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
	G 3/4	8750		Basic valve without pilot valve		R412009277
	G 1	8750		Basic valve without pilot valve		R412009282
	G 1	8750		Basic valve without pilot valve, with CNOMO sub-base		R412009287
	G 3/4	8750	24 V DC	Basic valve with pilot valve	24 V	R412009278
	G 3/4	8750	220-230 V AC	Basic valve with pilot valve		R412009280
	G 1	8750	24 V DC	Basic valve with pilot valve	24 V	R412009378
	G 1	8750	24 V DC	Basic valve with pilot valve	24 V	R412009283
	G 1	8750	220-230 V AC	Basic valve with pilot valve		R412009285

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

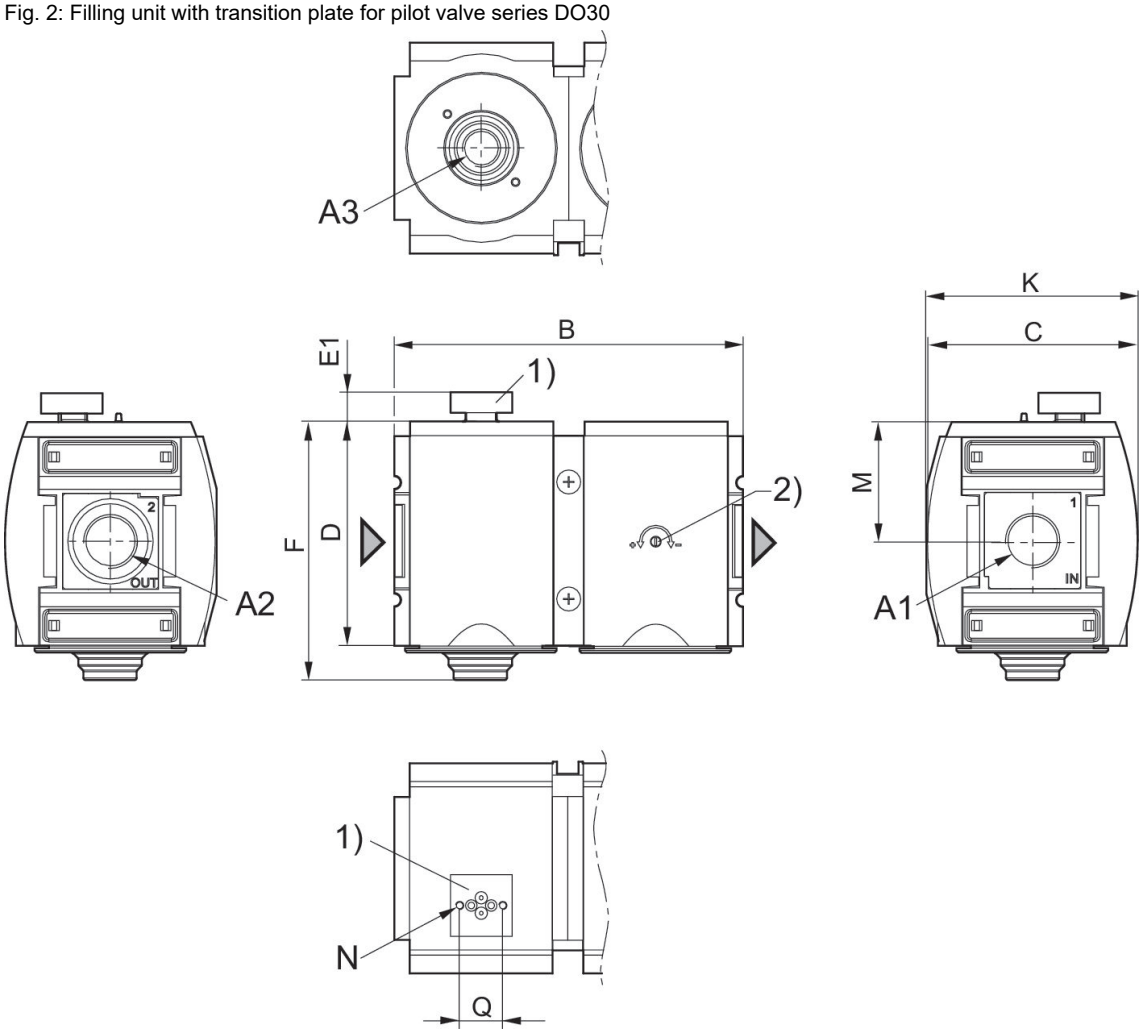


A1 = input A2 = output A3 = ventilation port
1) Adjustment screw for filling time

Dimensions in mm

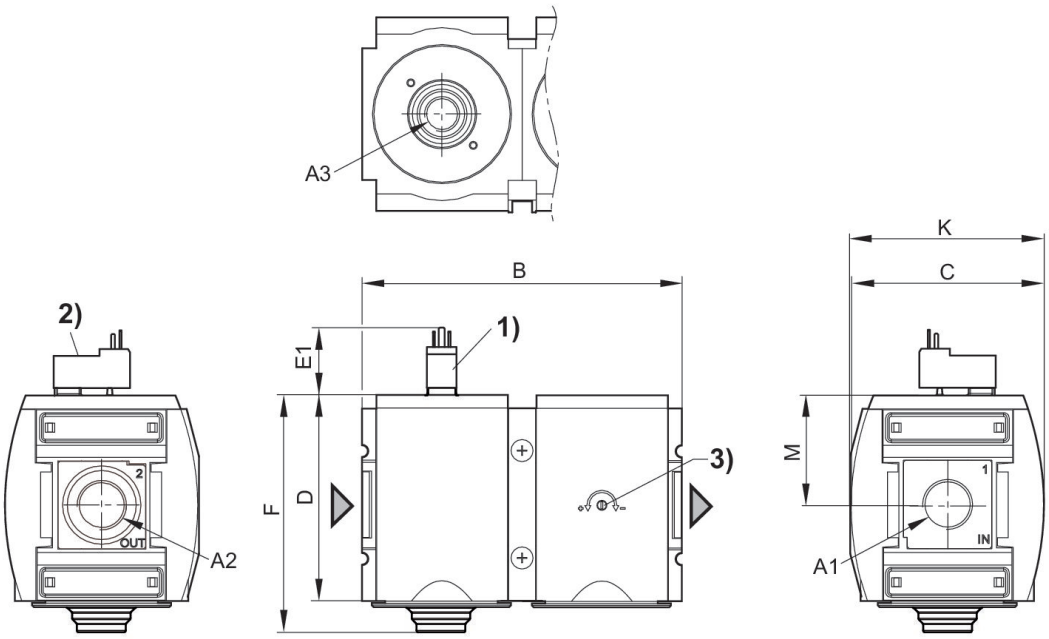
Part No.	A1	A2	A3	B	C	D	F	K	M
R412009277	G 3/4	G 3/4	G 1/2	170	103	109	125	103.5	58
R412009282	G 3/4	G 1	G 1/2	170	103	109	125	103.5	58

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

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



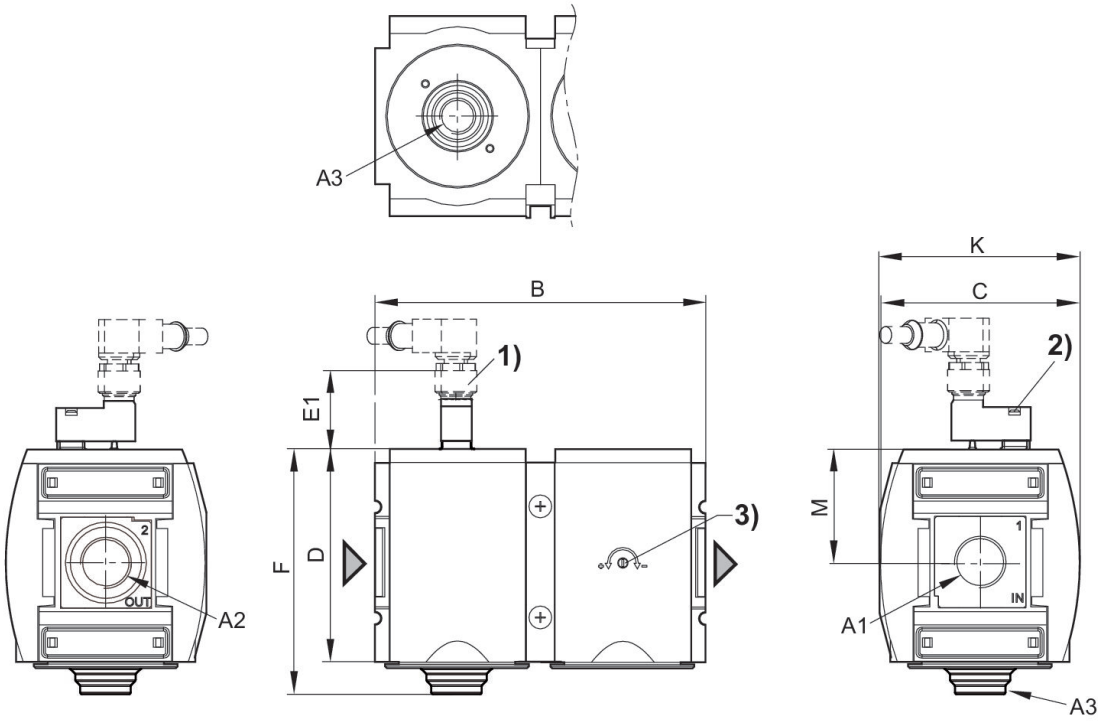
A1 = input A2 = output A3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override
3) Adjustment screw for filling time

Dimensions in mm

Part No.	A1	A2	A3	B	C	D	E1	F	K
R412009278	G 3/4	G 3/4	G 1/2	170	103	109	25.1	125	103.5
R412009279	G 3/4	G 3/4	G 1/2	170	103	109	25.1	125	103.5
R412009280	G 3/4	G 3/4	G 1/2	170	103	109	25.1	125	103.5
R412009283	G 1	G 1	G 1/2	170	103	109	25.1	125	103.5
R412009284	G 1	G 1	G 1/2	170	103	109	25.1	125	103.5
R412009285	G 1	G 1	G 1/2	170	103	109	25.1	125	103.5

Part No.	M
R412009278	58
R412009279	58
R412009280	58
R412009283	58
R412009284	58
R412009285	58

Fig. 4: Filling unit with pilot valve, push-in fitting M12x1



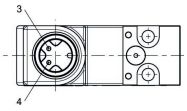
A1 = input A2 = output A3 = ventilation port
1) plug M12
2) Manual override
3) Adjustment screw for filling time

Dimensions in mm

Part No.	A1	A2	A3	B	C	D	E1	F	M
R412009378	G 1	G 1	G 1/2	170	103	109	39	125	58

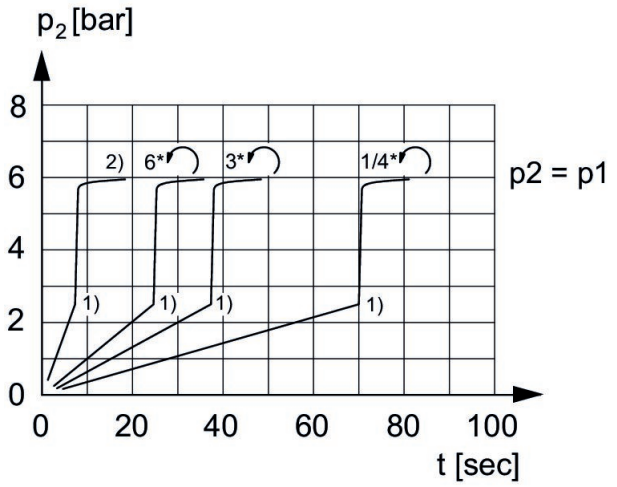
R412009277, R412009282, R412009287, R412009278, R412009280, R412009378, R412009283, R412009285

Pin assignment M12x1



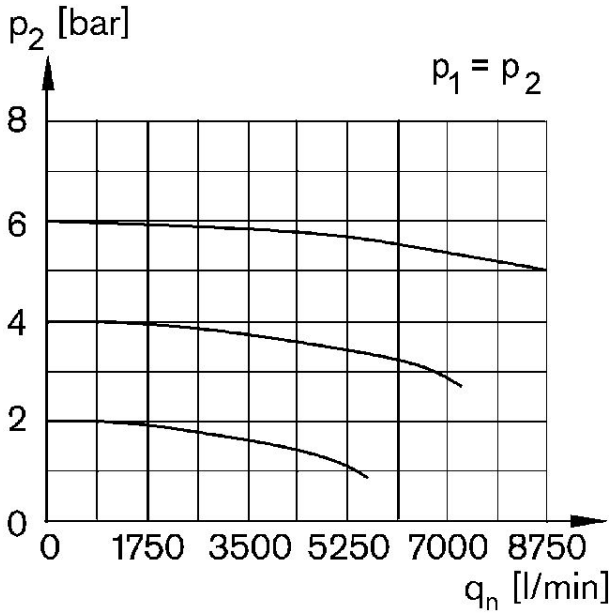
3: +/-
4: +/-

Secondary pressure while filling



p1 = Working pressure
p2 = Secondary pressure
t = filling time, adjustable via adjustment screw (throttle)
1) Switching point: adjustable filling time, fixed change-over pressure ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

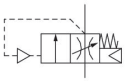
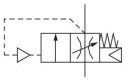
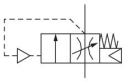
Flow rate characteristic, p2 = 0,05 - 7 bar



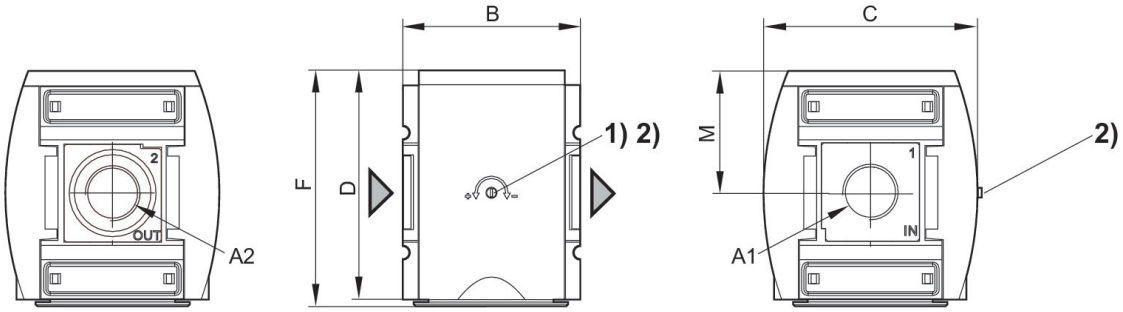
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Filling valve, pneumatically operated, Series AS5-SSV

: Can be assembled into blocks
Flow: 10000 l/min
Activation: Pneumatically
Compressed air connection type: Internal thread
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 3/4	10000	R412009272
	G 1	10000	R412009273
	G 1	10000	R412009275

Dimensions

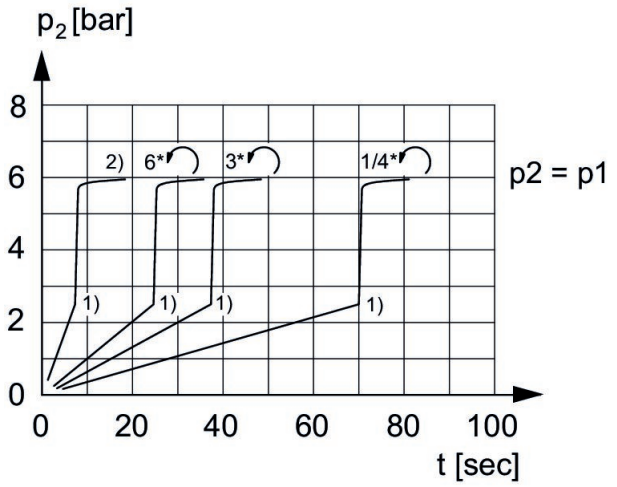


A1 = input A2 = output
1) Adjustment screw for filling time
2) Adjustment screw lock

Dimensions in mm

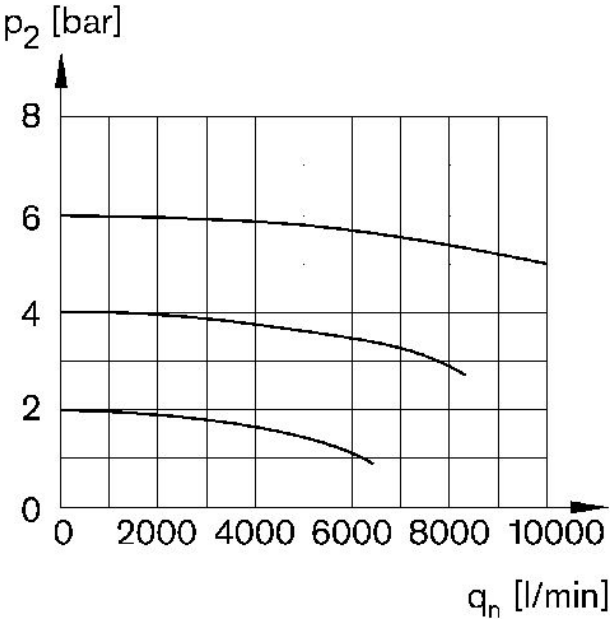
Part No. G 3/4	A1	A2	B	C	D	F	M
R412009272	G 3/4	G 3/4	85	103	109	112	58
R412009273	G 1	G 1	85	103	109	112	58
R412009275	G 1	G 1	85	103	109	112	58

Secondary pressure while filling



p1 = Working pressure
p2 = Secondary pressure
t = filling time, adjustable via adjustment screw (throttle)
1) Switching point: adjustable filling time, fixed change-over pressure ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

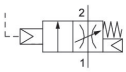
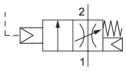
Flow rate characteristic, p2 = 0,05 - 7 bar



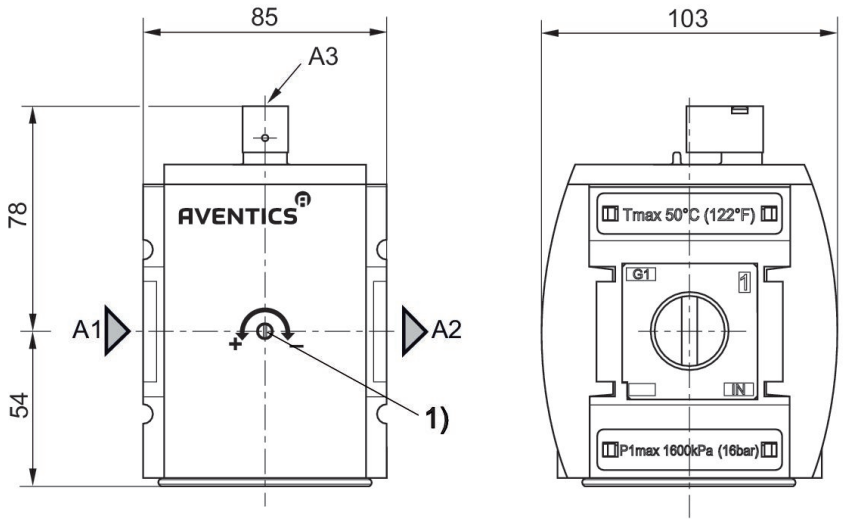
p2 = secondary pressure qn = nominal flow

Filling valve, pneumatically operated, Series AS5-SSV

: Can be assembled into blocks
Flow: 10000 l/min
Activation: Pneumatically
Qn 1 > 2: 10000 l/min
Compressed air connection type: Internal thread
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 16 bar

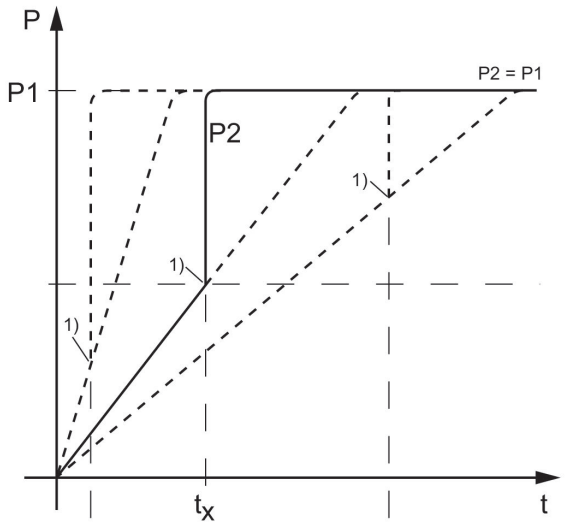
	Port	Nominal flow [l/min]	Part No.
	G 3/4	10000	R412009311
	G 1	10000	R412009312

Dimensions



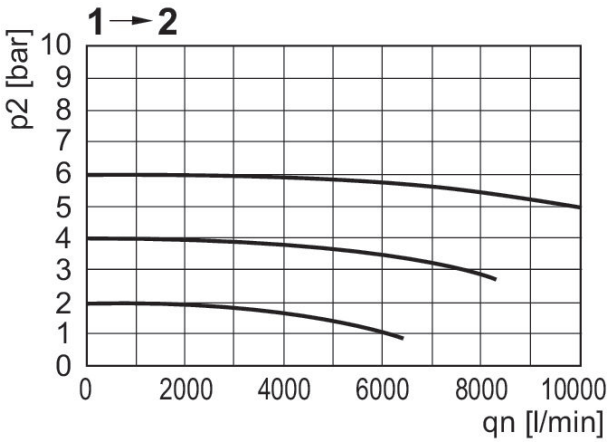
A1 = input A2 = output
A3 = control pressure connection
1) Adjustment screw for filling time

Secondary pressure while filling



p1 = Working pressure
p2 = output pressure
t = filling time
tx = switchover time
1) Pneumatically triggered switching point
Filling time adjustable via adjustment screw (throttle)

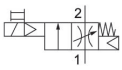
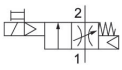
Flow rate characteristic, p2 = 0,05 - 7 bar



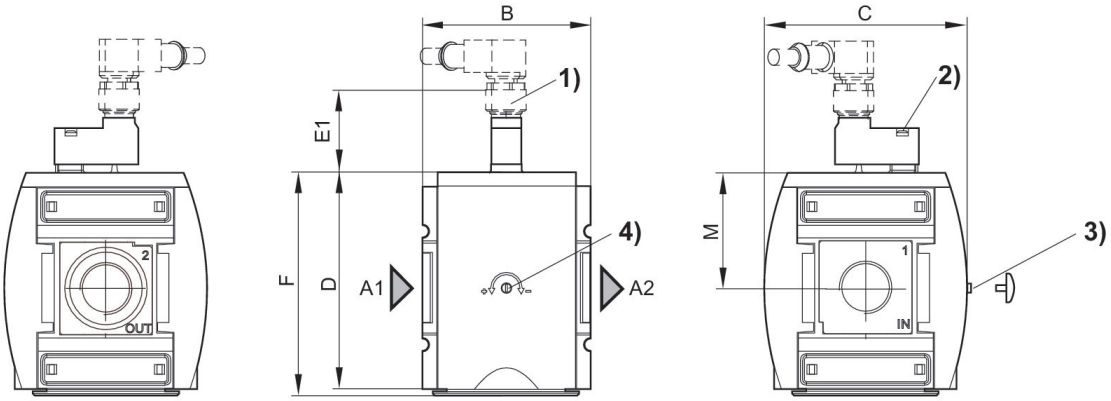
p2 = Secondary pressure
qn = Nominal flow

Filling valve, electrically operated, series AS5-SSV

: Can be assembled into blocks
Activation: Electrically
Electrical connection 2, thread size: M12x1
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar

	Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
	G 3/4	10000	24 V DC	Basic valve with pilot valve	24 V	R412009373
	G 1	10000	24 V DC	Basic valve with pilot valve	24 V	R412009374

Dimensions



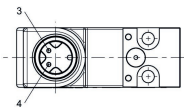
A1 = input A2 = output
1) plug M12
2) Manual override
3) Adjustment screw for filling time
4) Adjustment screw lock

Dimensions in mm

Part No.	A1	A2	B	C	D	E1	F	M
R412009373	G 3/4	G 3/4	85	103	109	39	112	58
R412009374	G 1	G 1	85	103	109	39	112	58
repeatColumn								
tablefooter								

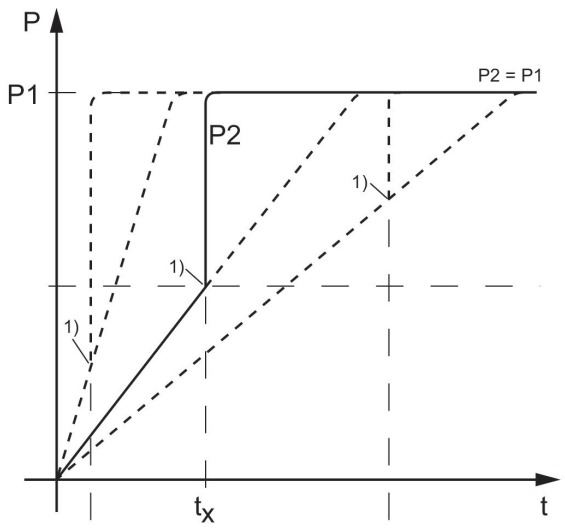
R412009373, R412009374

Pin assignment M12x1



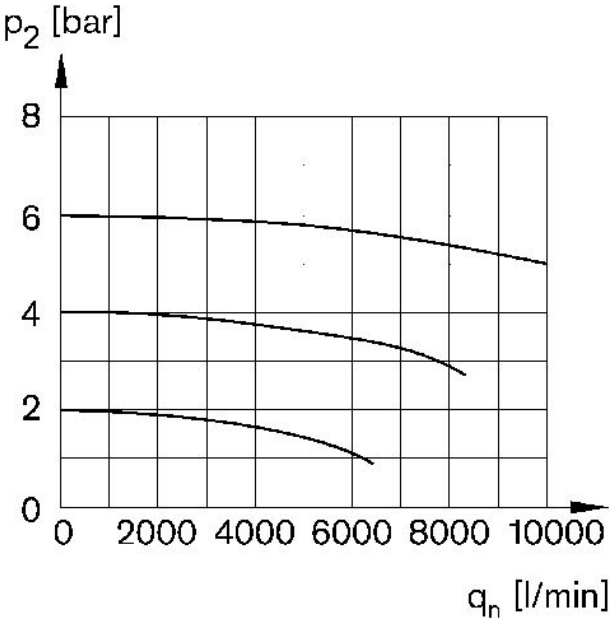
3: +/-
4: +/-

Secondary pressure while filling



p1 = Working pressure
p2 = Secondary pressure
t = filling time
tx = switchover time
1) Electrically triggered switching point
Filling time adjustable via adjustment screw (throttle)

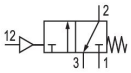
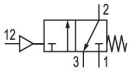
Flow rate characteristic, p2 = 0,05 - 7 bar



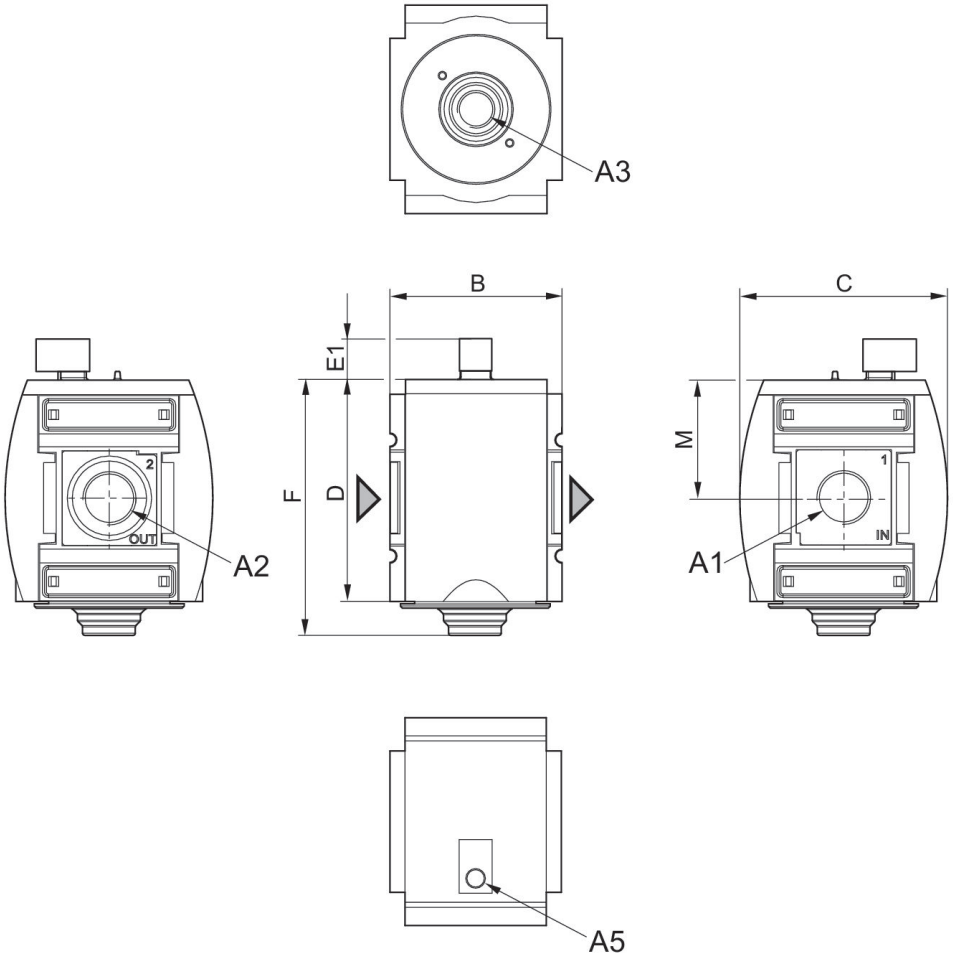
p2 = secondary pressure qn = nominal flow

3/2-directional valve, pneumatically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Pneumatically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Min. control pressure: 2.5 bar
Max. control pressure: 16 bar
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 3/4	12500	R412009262
	G 1	12500	R412009263

Dimensions



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

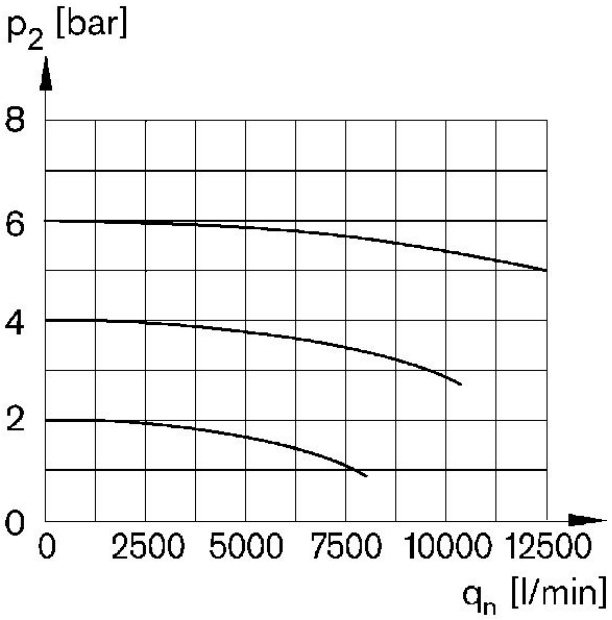
Dimensions in mm

Part No.	A1	A2	A3	A5	B	C	D	E1	F
R412009262	G 3/4	G 3/4	G 1/2	G 1/8	85	103	109	20.2	125
R412009263	G 1	G 1	G 1/2	G 1/8	85	103	109	20.2	125

Part No.	M					
R412009262	58					
R412009263	58					

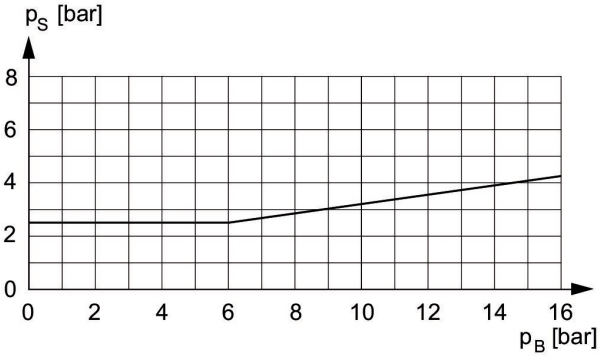
Flow rate characteristic

p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

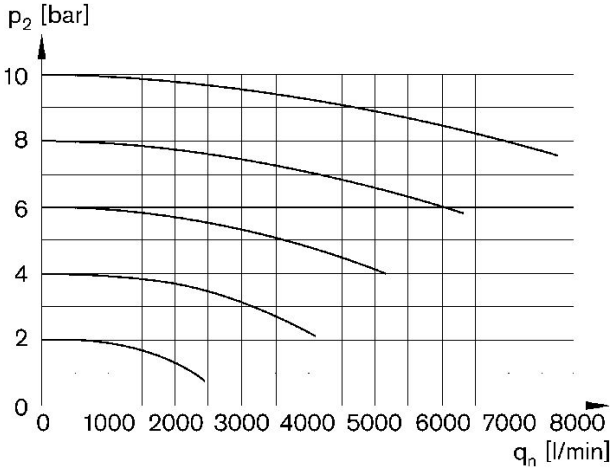
control pressure characteristic



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

Rear exhaust

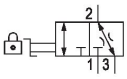
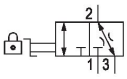
2 > 3



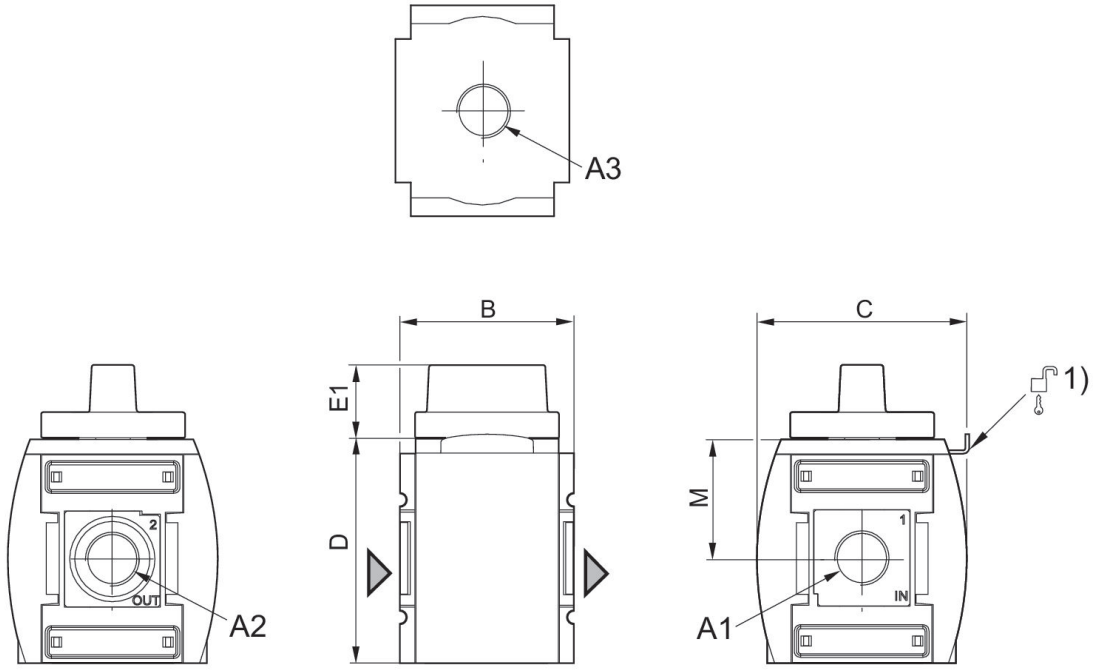
p2 = Secondary pressure
qn = Nominal flow

3/2-shut-off valve, mechanically operated, Series AS5-BAV

: Can be assembled into blocks
: lockable
: for padlocks
Activation: Mechanical
Qn 1 > 2: 30000 l/min
Compressed air connection type: Internal thread
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 3/4	30000	R412009260
	G 1	30000	R412009261

Dimensions

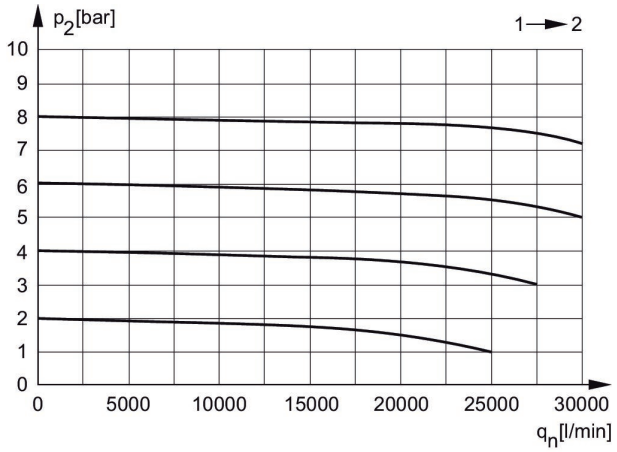


A1 = input
A2 = output
A3 = ventilation port
1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

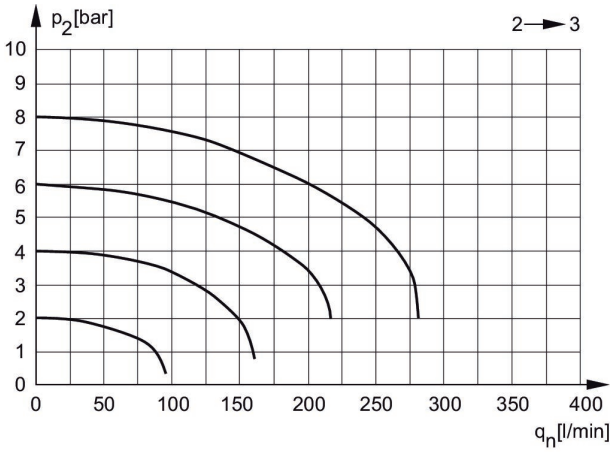
Part No.	A1	A2	A3	B	C	D	E1	M
R412009260	G 3/4	G 3/4	G 3/4	85	103	109	36	58
R412009261	G 1	G 1	G 3/4	85	103	109	36	58

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



p2 = Secondary pressure
qn = Nominal flow

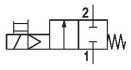
Rear exhaust



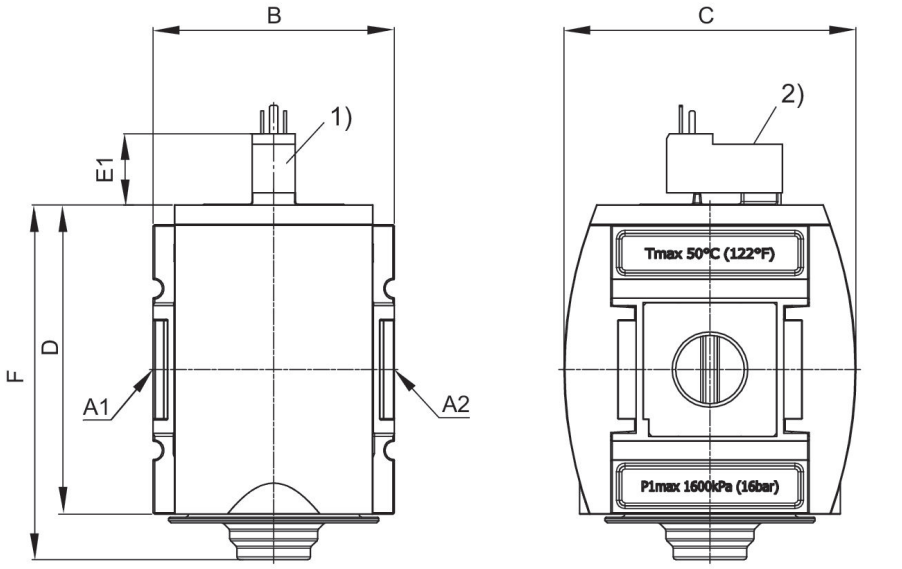
p2 = Secondary pressure
qn = Nominal flow

2/2-directional valve, electrically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 3 bar ... 10 bar

	Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
	G 1	12500	24 V DC	Basic valve with pilot valve	24 V	R412009301

Dimensions



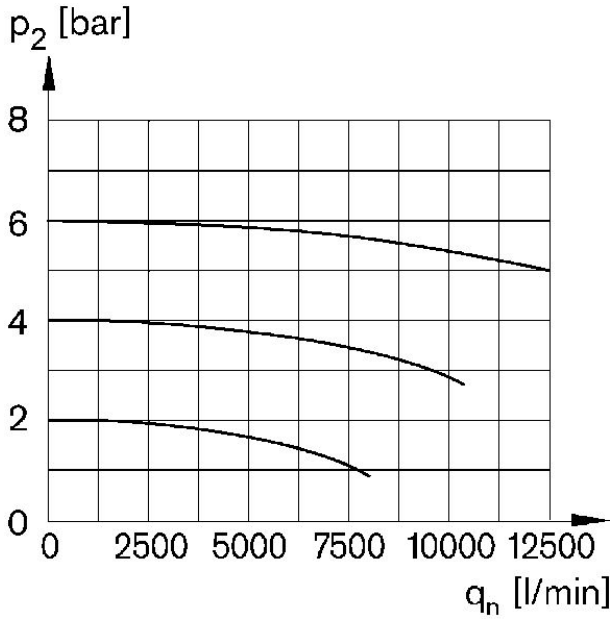
A1 = input A2 = output
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override

Dimensions in mm

Part No.	A1	A2	B	C	D	E1	F
R412009301	G 1	G 1	85	103	109	25.1	125

Flow rate characteristic

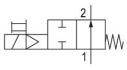
p2 = 0,05 - 7 bar, 1 > 2



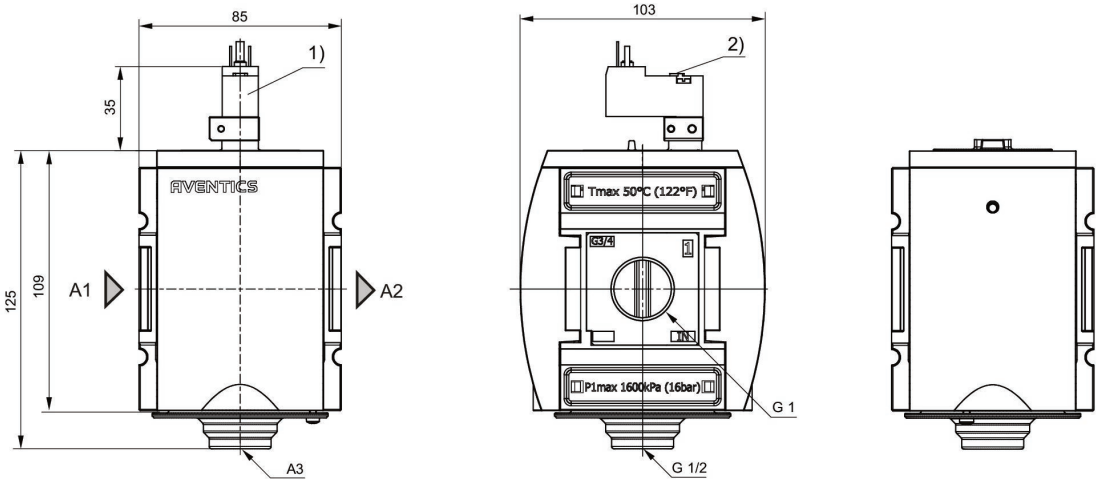
p2 = Secondary pressure
qn = Nominal flow

2/2-directional valve, electrically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve with pilot valve
Compressed air connection input: G 1
Compressed air connection output: G 1
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 8 bar

	Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
	G 1	12500	24 V DC	Basic valve with pilot valve	24 V	R414014102

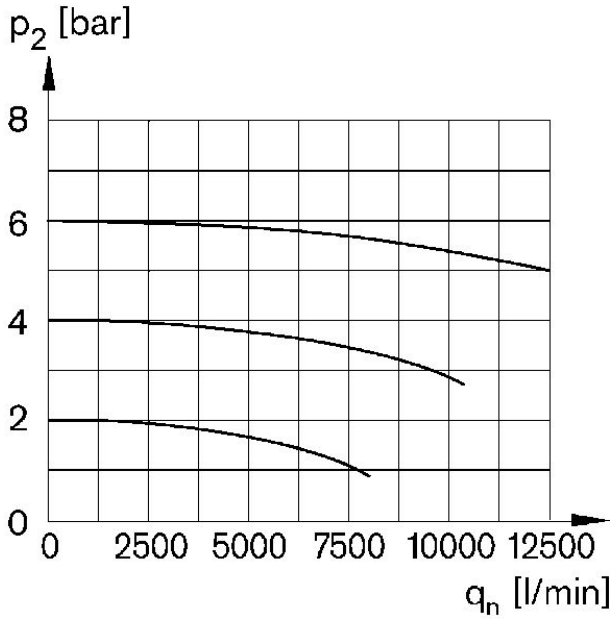
Dimensions in mm



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

Flow rate characteristic

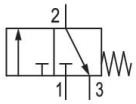
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

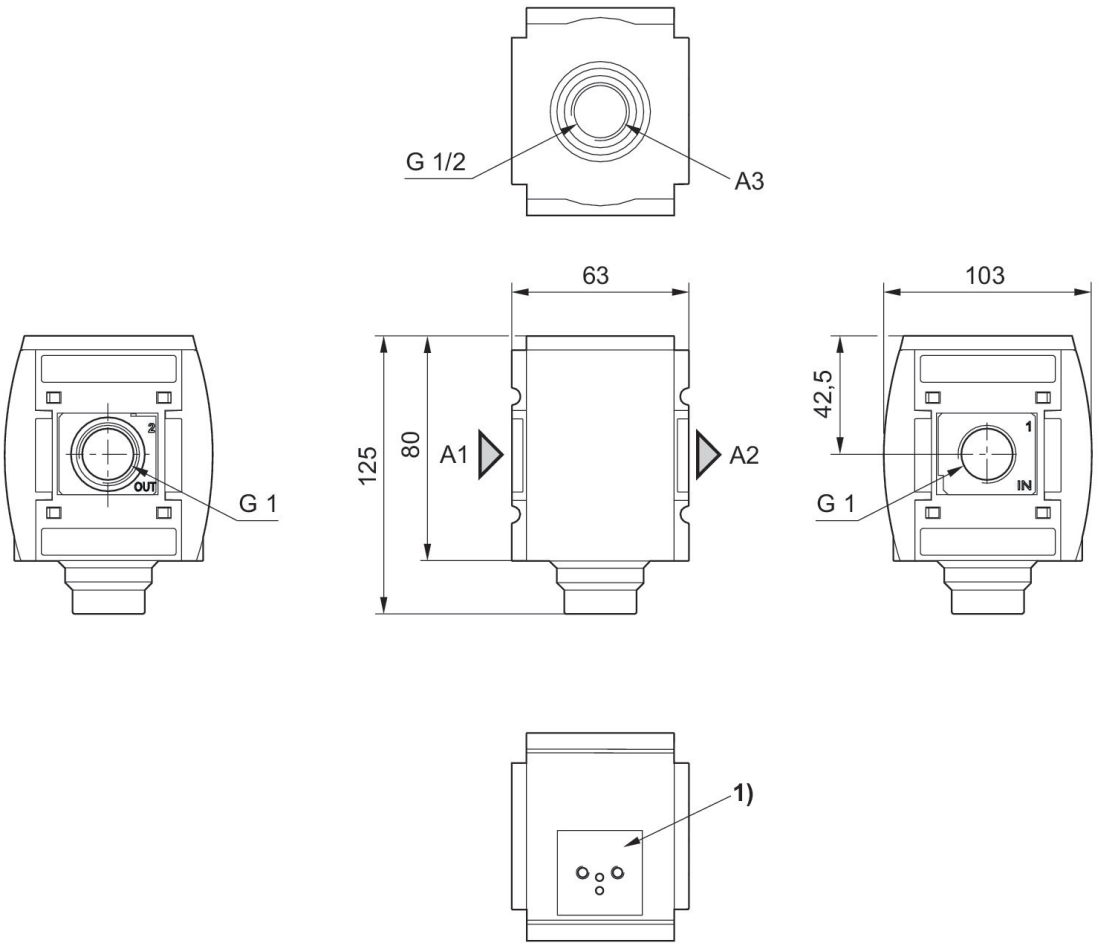
3/2-directional valve, electrically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Basic valve equipment	Part No.
G 1	12500	Basic valve without pilot valve	R412009268

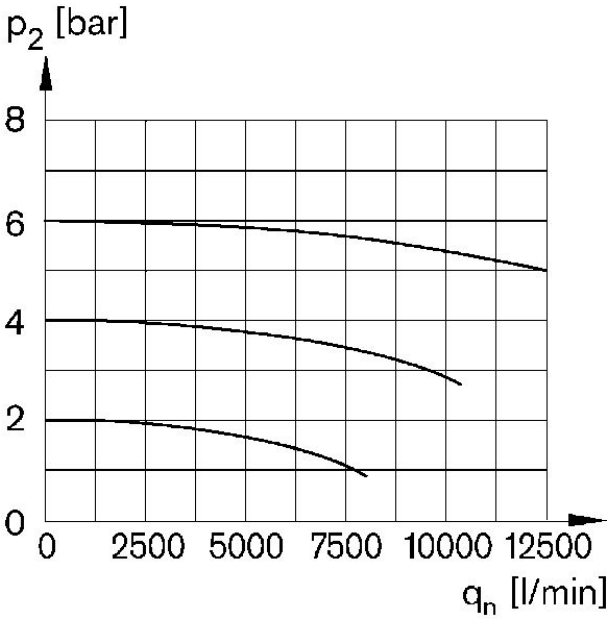
Dimensions in mm



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

Flow rate characteristic

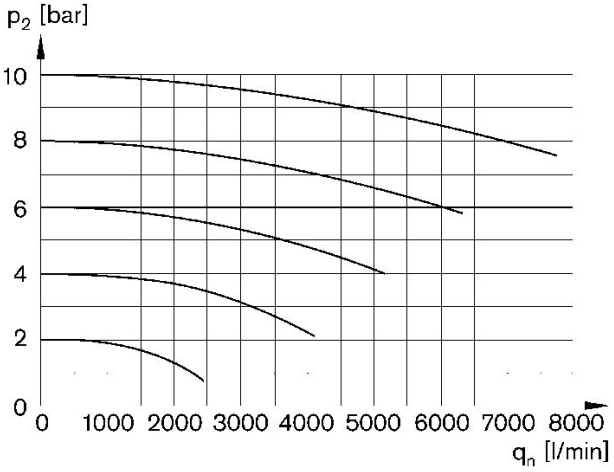
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

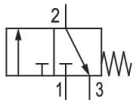
2 > 3



p2 = Secondary pressure
qn = Nominal flow

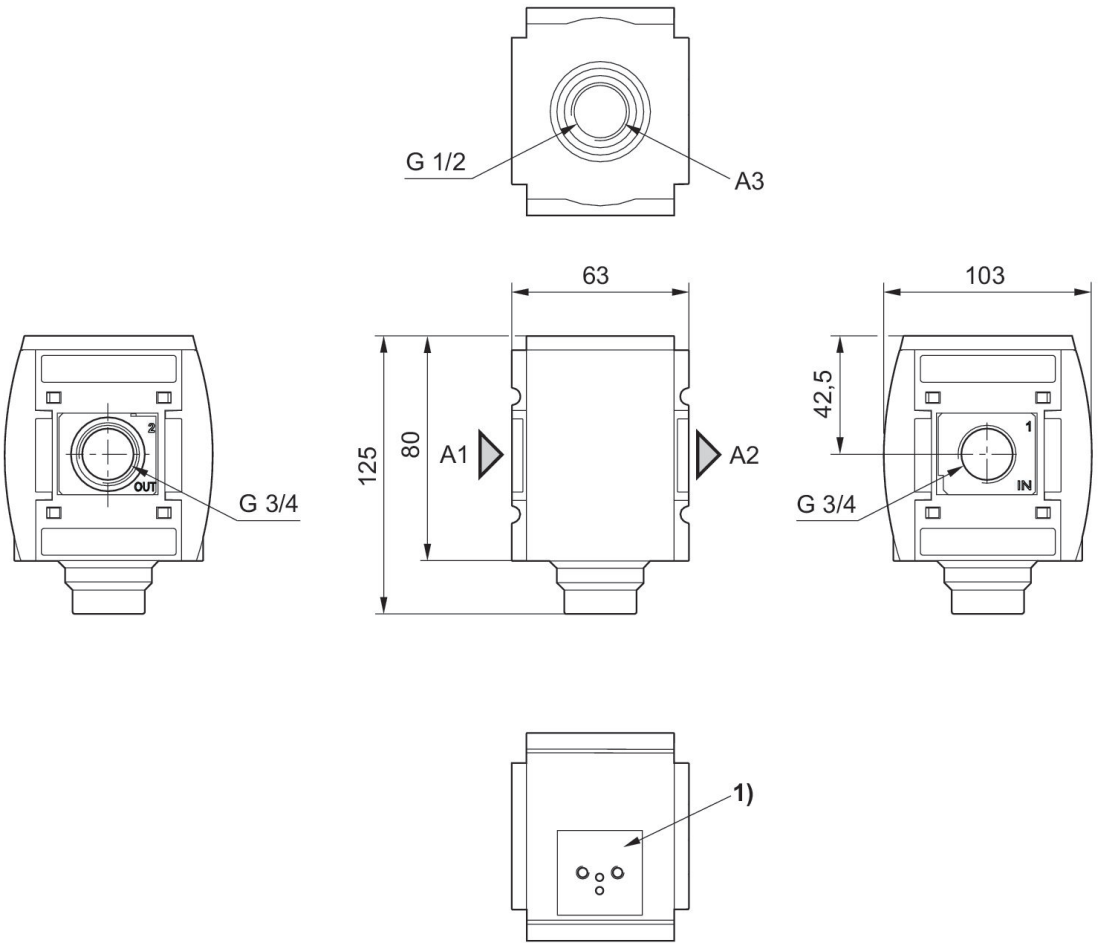
3/2-directional valve, electrically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Basic valve equipment	Part No.
G 3/4	12500	Basic valve without pilot valve	R412009264

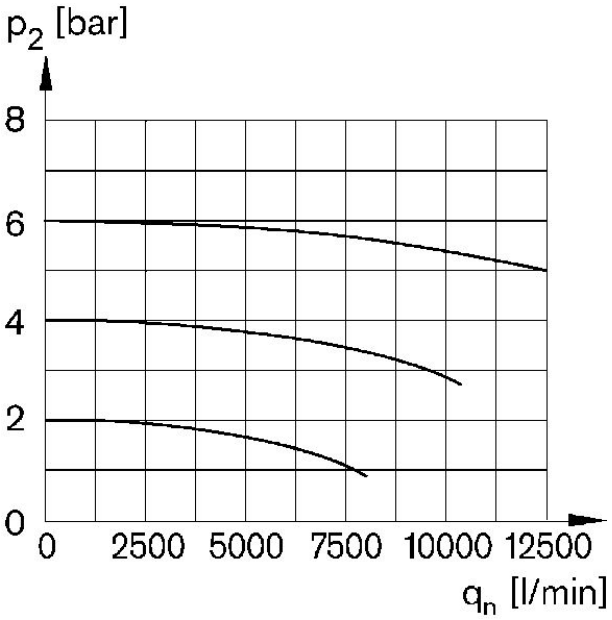
Dimensions in mm



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

Flow rate characteristic

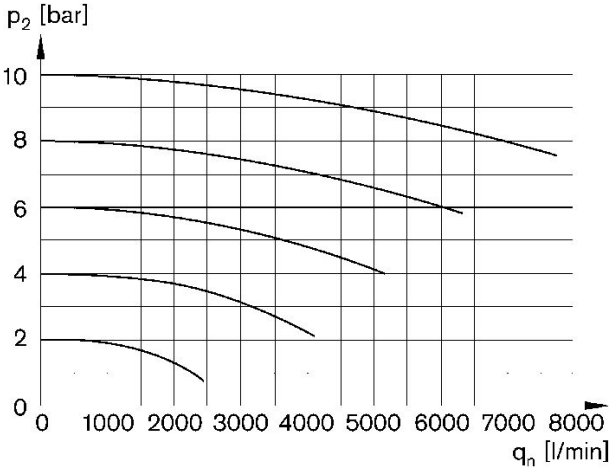
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

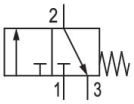
2 > 3



p2 = Secondary pressure
qn = Nominal flow

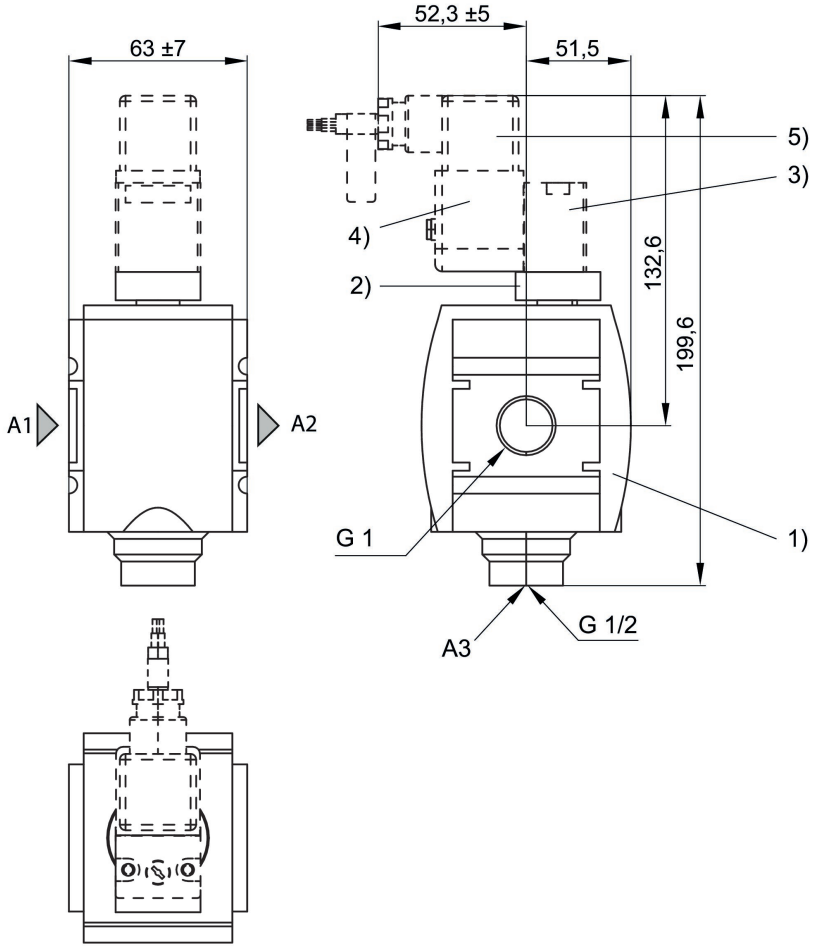
3/2-directional valve, electrically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Basic valve equipment	Part No.
G 1	12500	Basic valve without pilot valve, with CNOMO sub-base	R412009259

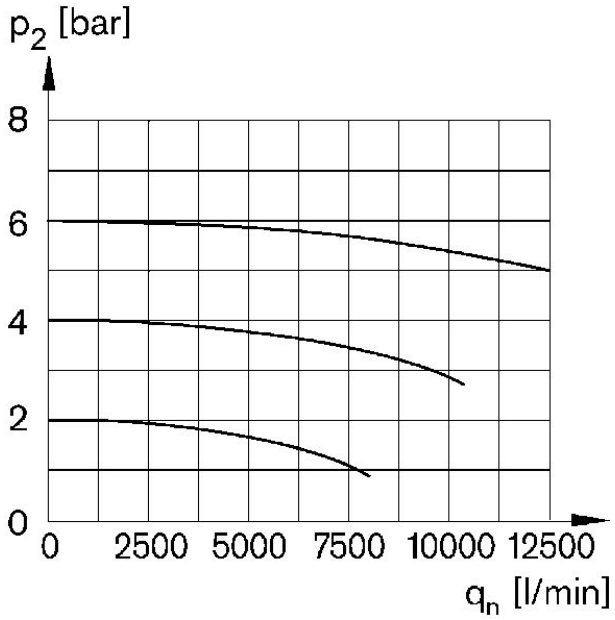
Dimensions in mm



A1 = input A2 = output
A3 = ventilation port
1) Shut-off valve
2) Transition plate
3) Pilot valve
4) Coil
5) Valve plug connector
See accessories for pilot valve and coil

Flow rate characteristic

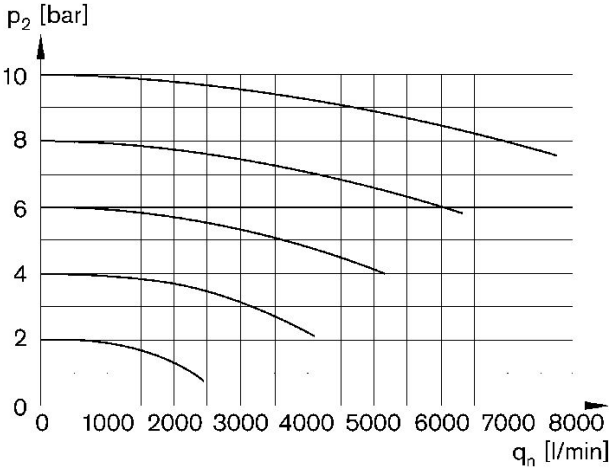
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

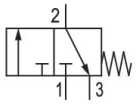
2 > 3



p2 = Secondary pressure
qn = Nominal flow

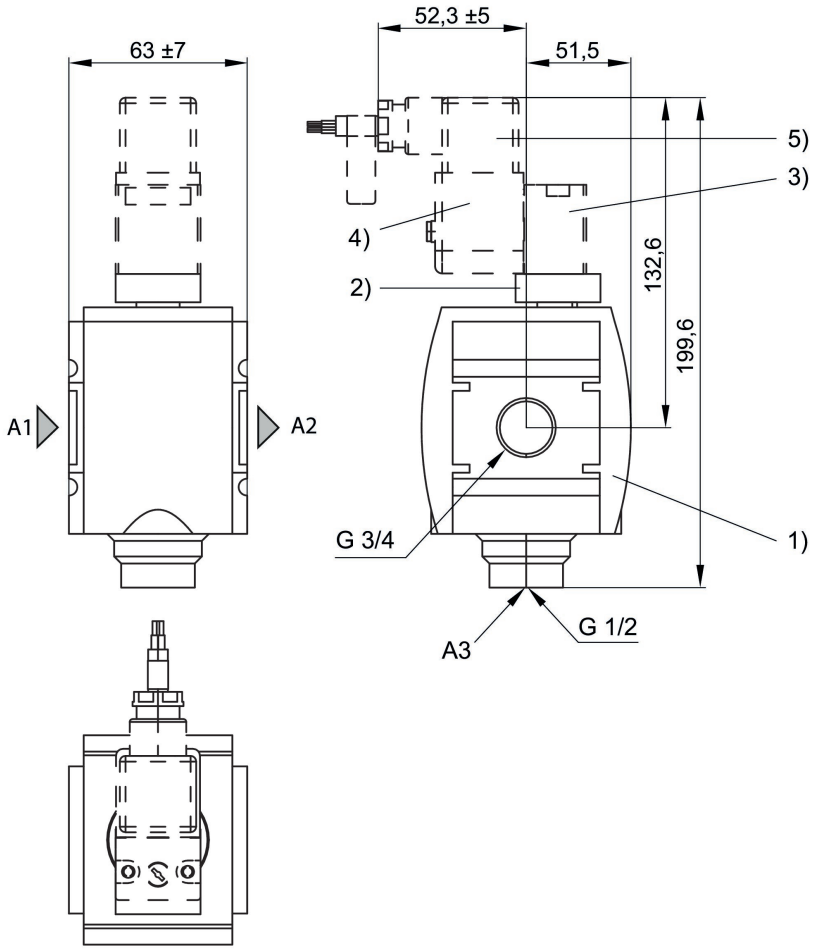
3/2-directional valve, electrically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Basic valve equipment	Part No.
G 3/4	12500	Basic valve without pilot valve, with CNOMO sub-base	R412009258

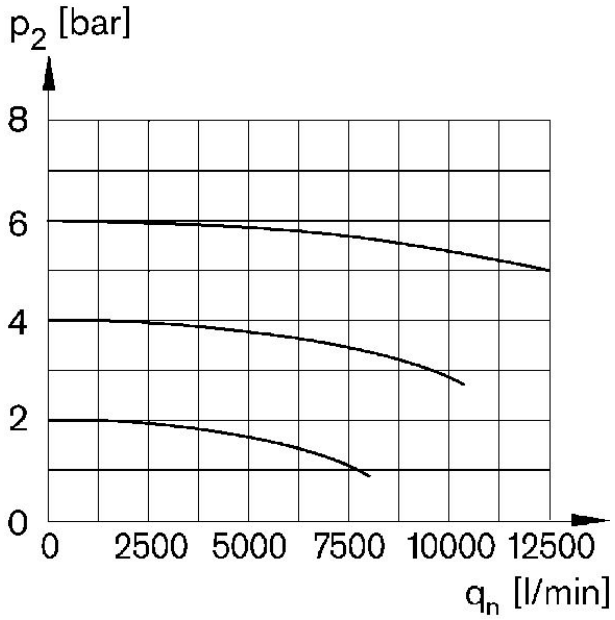
Dimensions in mm



A1 = input A2 = output
A3 = ventilation port
1) Shut-off valve
2) Transition plate
3) Pilot valve
4) Coil
5) Valve plug connector
See accessories for pilot valve and coil

Flow rate characteristic

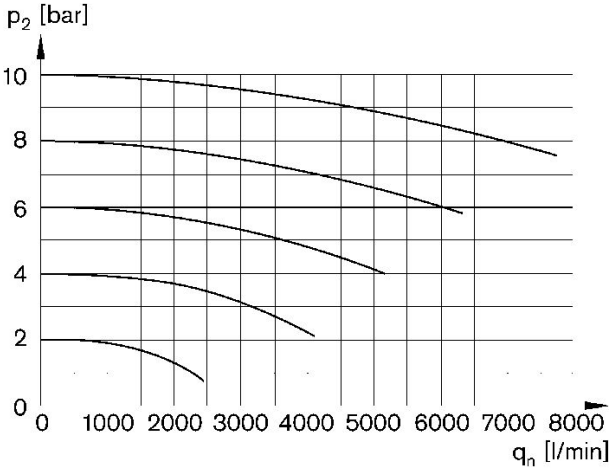
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

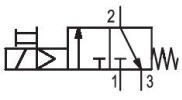
2 > 3



p2 = Secondary pressure
qn = Nominal flow

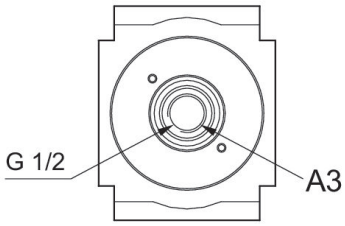
3/2-directional valve, electrically operated, Series AS5-SOV

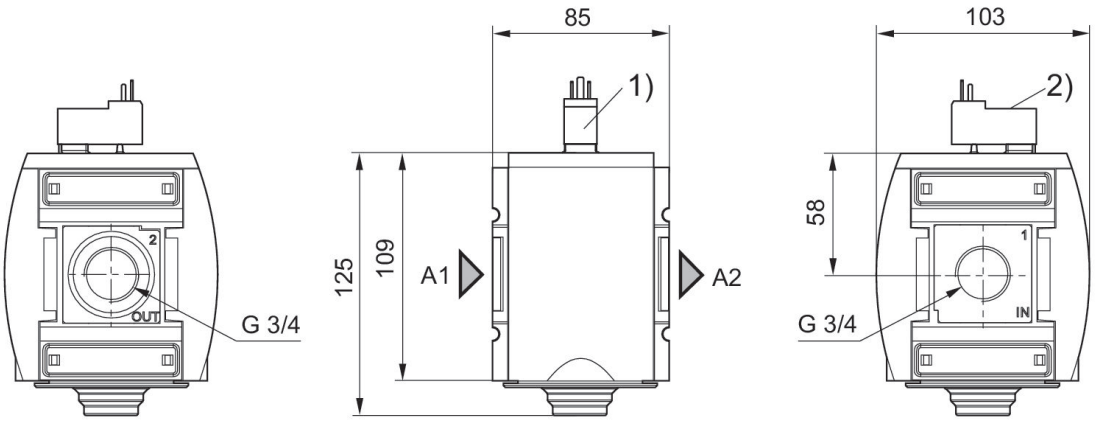
: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
G 3/4	12500	24 V DC	Basic valve with pilot valve	24 V	R412009265

Dimensions in mm

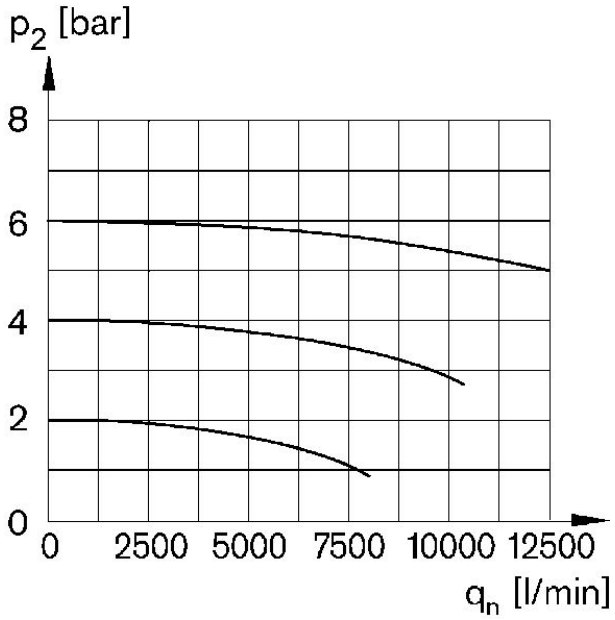




A1 = input
A2 = output
A3 = ventilation port
1) For valve plug connectors according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic

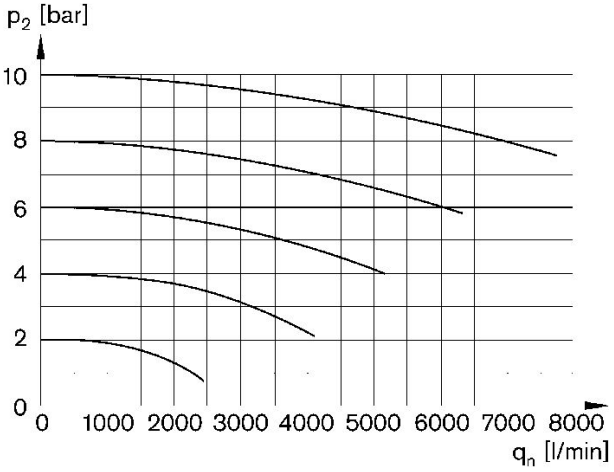
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

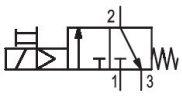
2 > 3



p2 = Secondary pressure
qn = Nominal flow

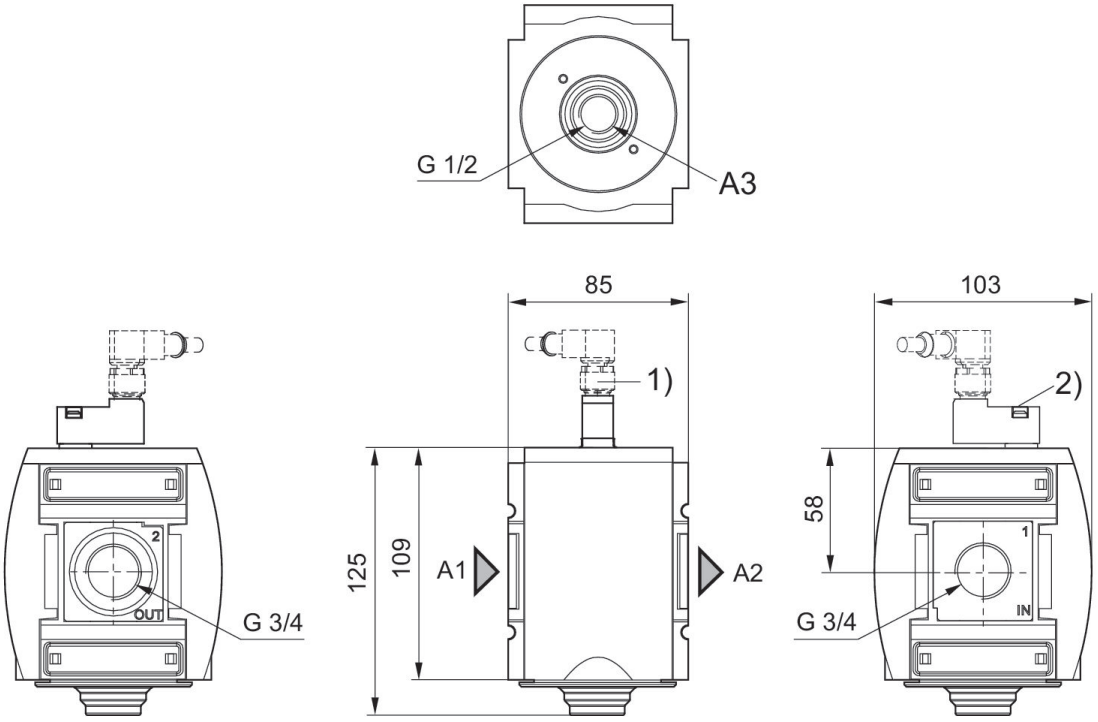
3/2-directional valve, electrically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve with pilot valve
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
G 3/4	12500	24 V DC	Basic valve with pilot valve	24 V	R412009375

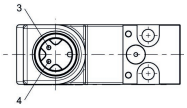
Dimensions in mm



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

R412009375

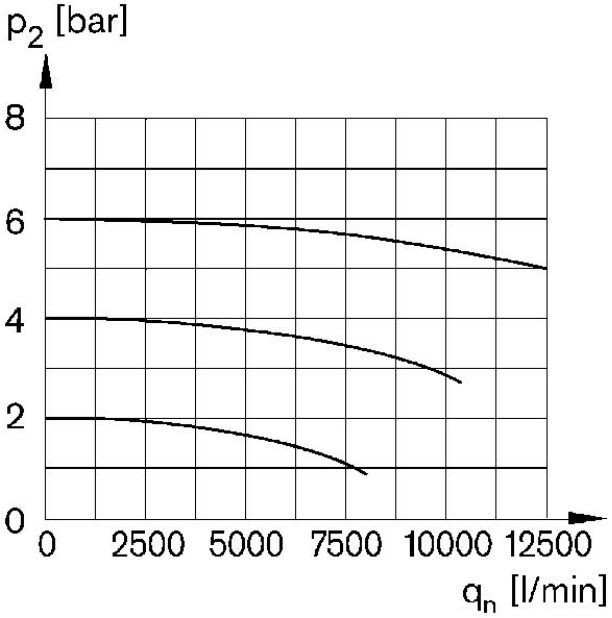
Pin assignment M12x1



3: +/-
4: +/-

Flow rate characteristic

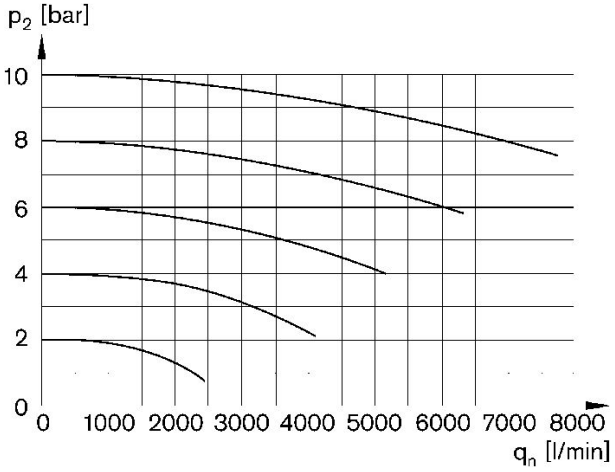
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

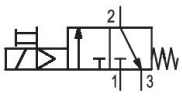
2 > 3



p2 = Secondary pressure
qn = Nominal flow

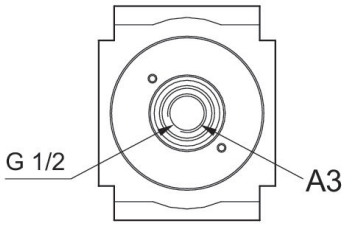
3/2-directional valve, electrically operated, Series AS5-SOV

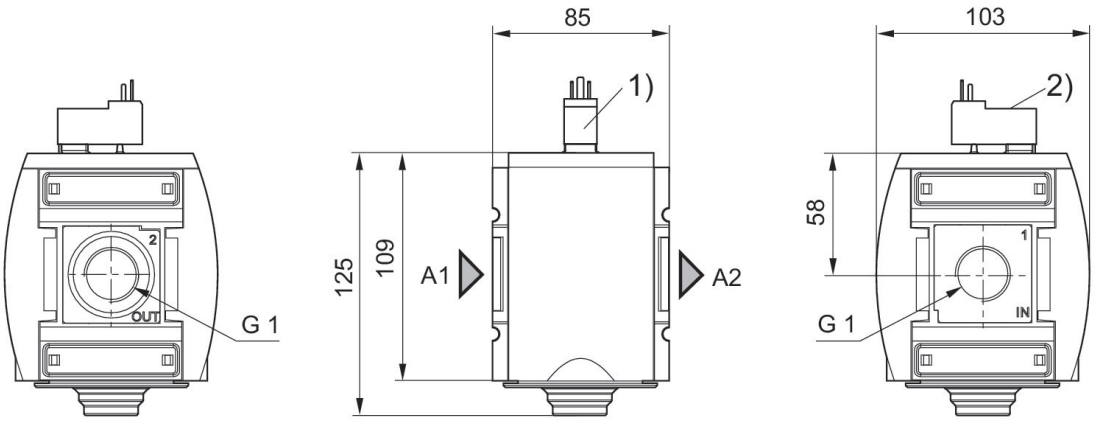
: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
G 1	12500	24 V DC	Basic valve with pilot valve	24 V	R412009269

Dimensions in mm

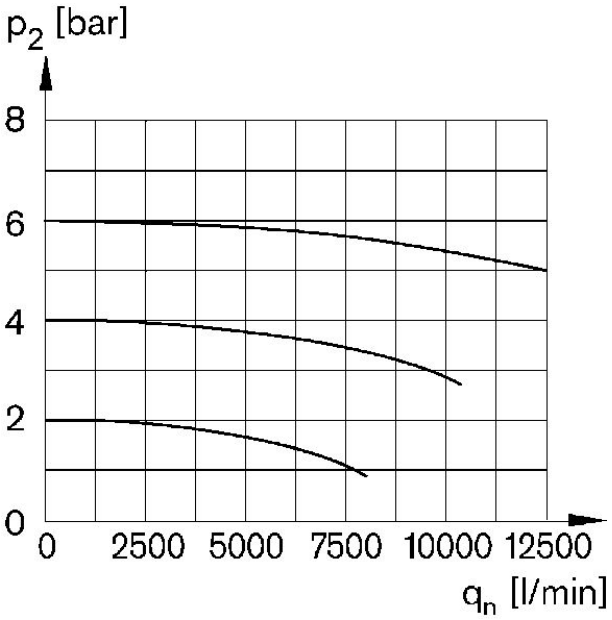




A1 = input
A2 = output
A3 = ventilation port
1) For valve plug connectors according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic

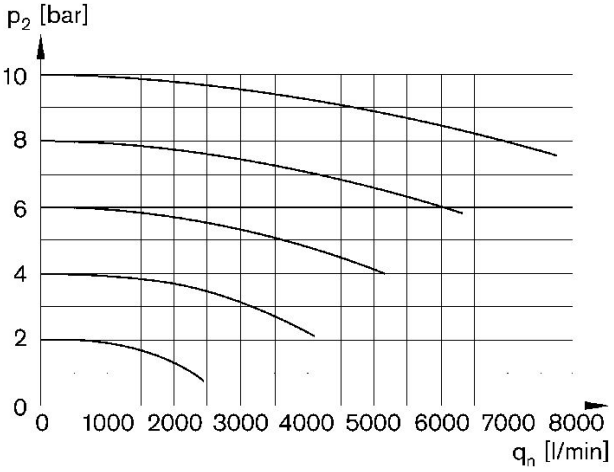
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

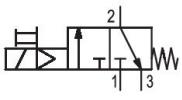
2 > 3



p2 = Secondary pressure
qn = Nominal flow

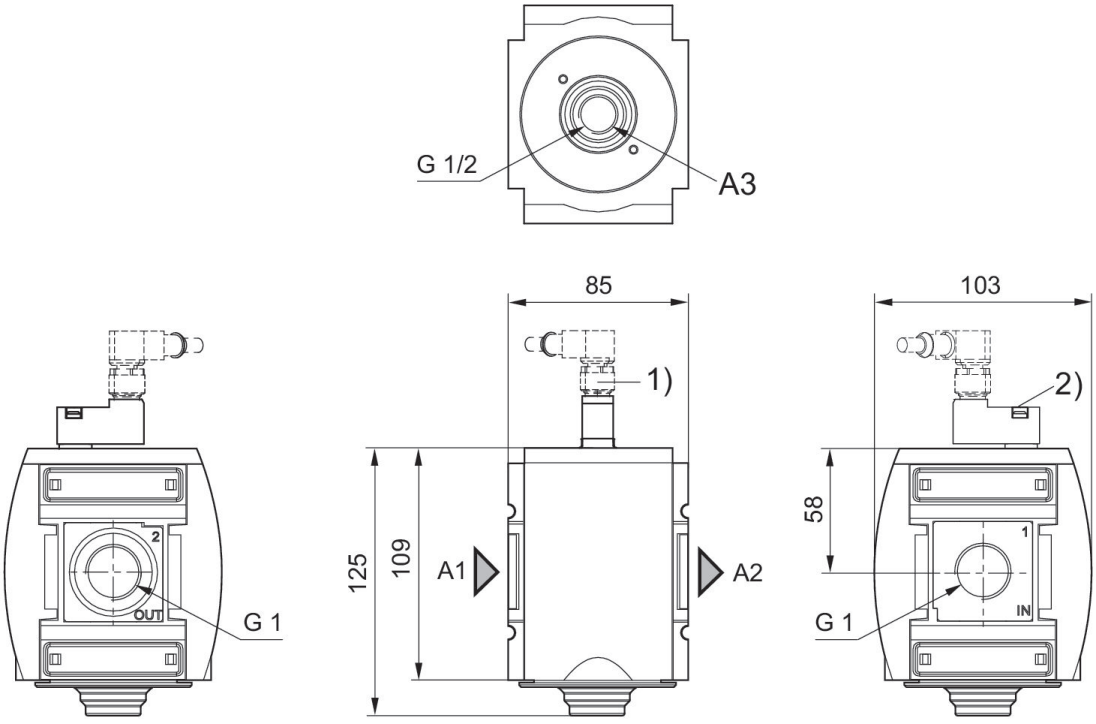
3/2-directional valve, electrically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
G 1	12500	24 V DC	Basic valve with pilot valve	24 V	R412009376

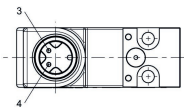
Dimensions in mm



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

R412009376

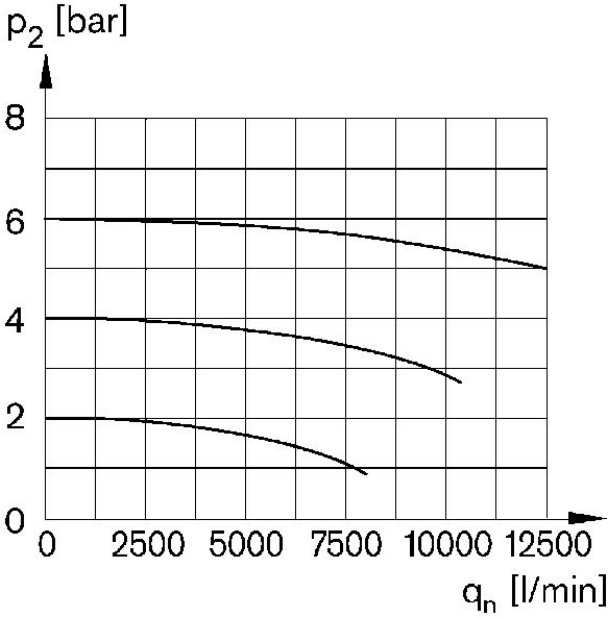
Pin assignment M12x1



3: +/-
4: +/-

Flow rate characteristic

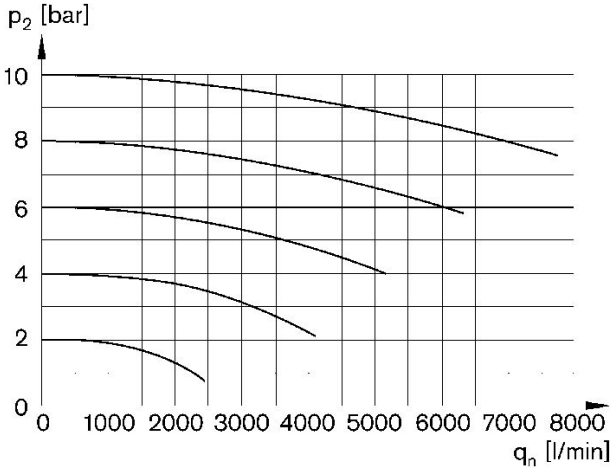
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

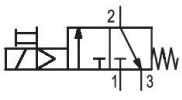
2 > 3



p2 = Secondary pressure
qn = Nominal flow

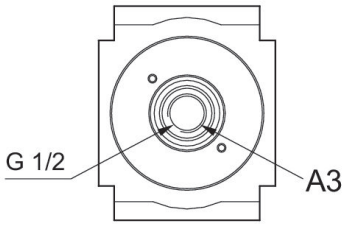
3/2-directional valve, electrically operated, Series AS5-SOV

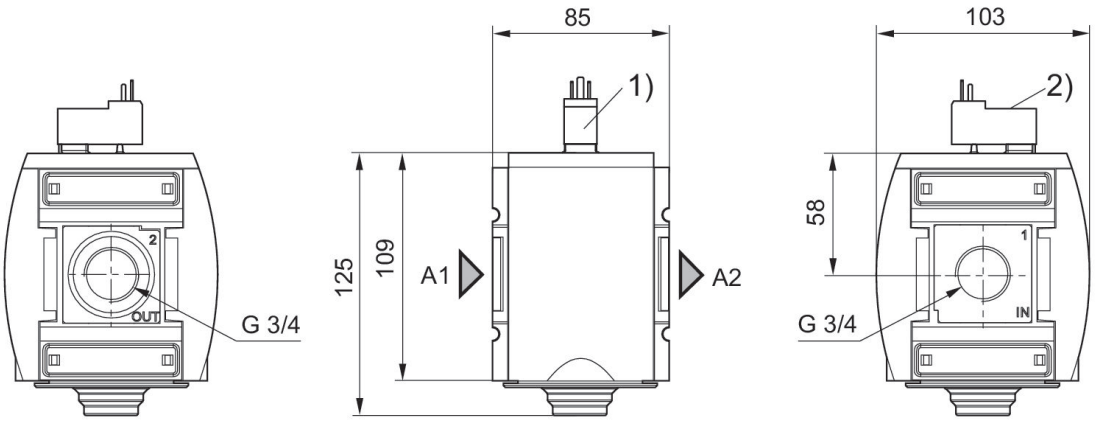
: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Part No.
G 3/4	12500	110 V AC	Basic valve with pilot valve	R412009266

Dimensions in mm

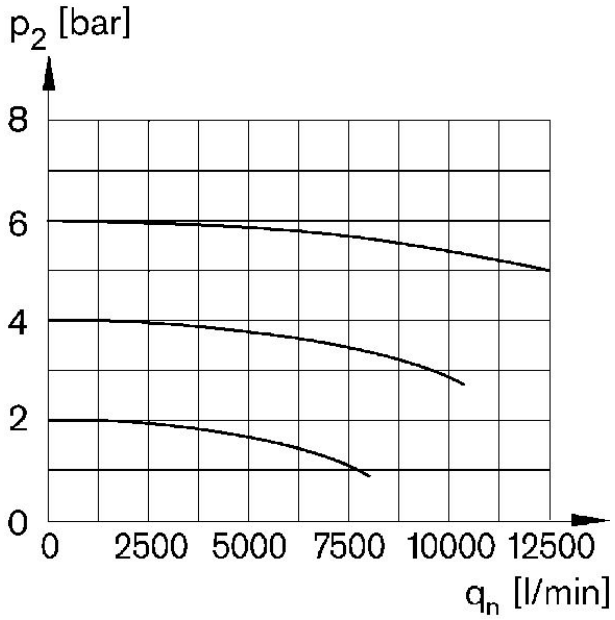




A1 = input
A2 = output
A3 = ventilation port
1) For valve plug connectors according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic

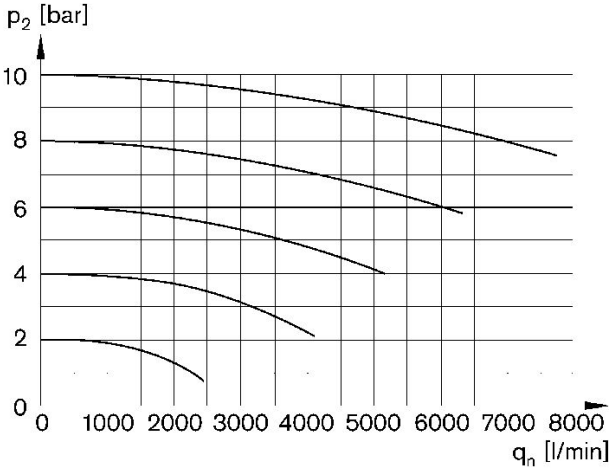
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

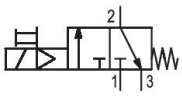
2 > 3



p2 = Secondary pressure
qn = Nominal flow

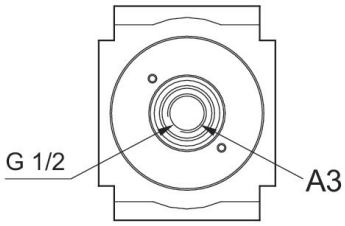
3/2-directional valve, electrically operated, Series AS5-SOV

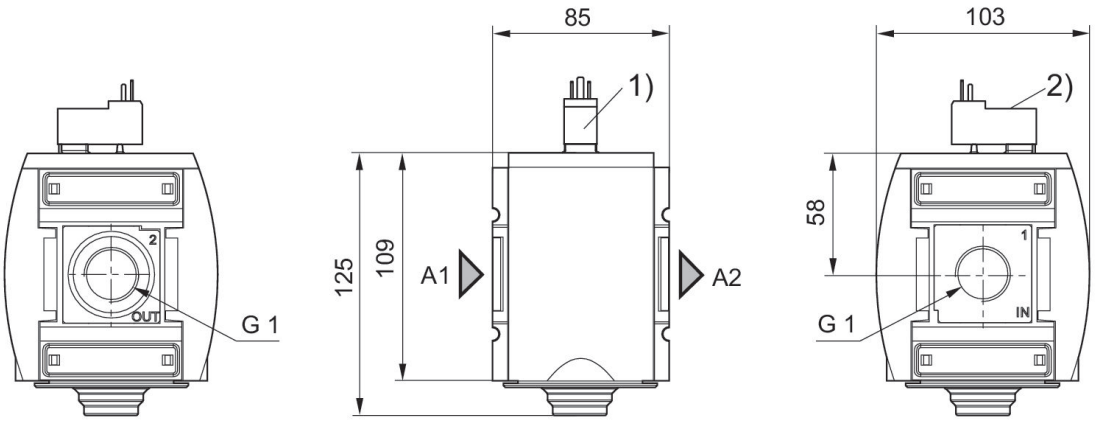
: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Part No.
G 1	12500	110 V AC	Basic valve with pilot valve	R412009270

Dimensions in mm

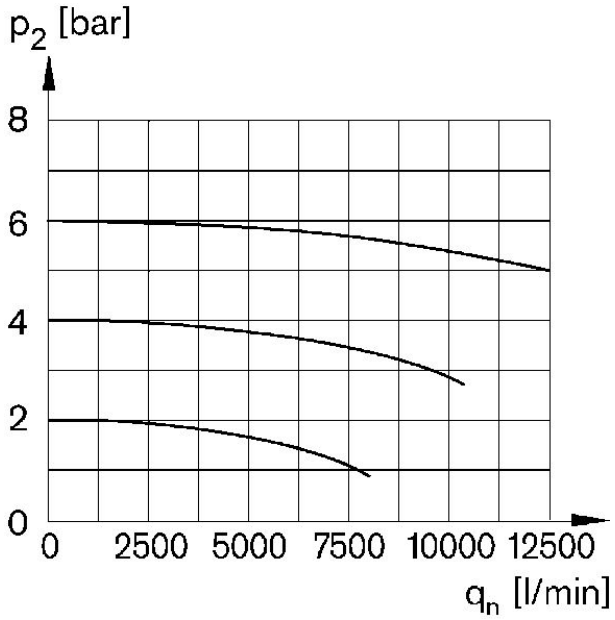




A1 = input
A2 = output
A3 = ventilation port
1) For valve plug connectors according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic

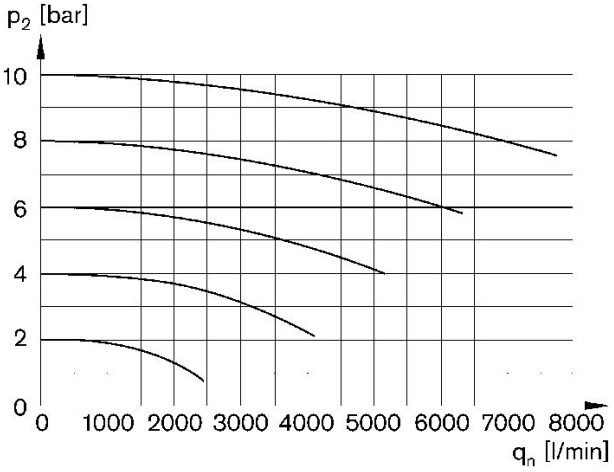
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

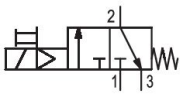
2 > 3



p2 = Secondary pressure
qn = Nominal flow

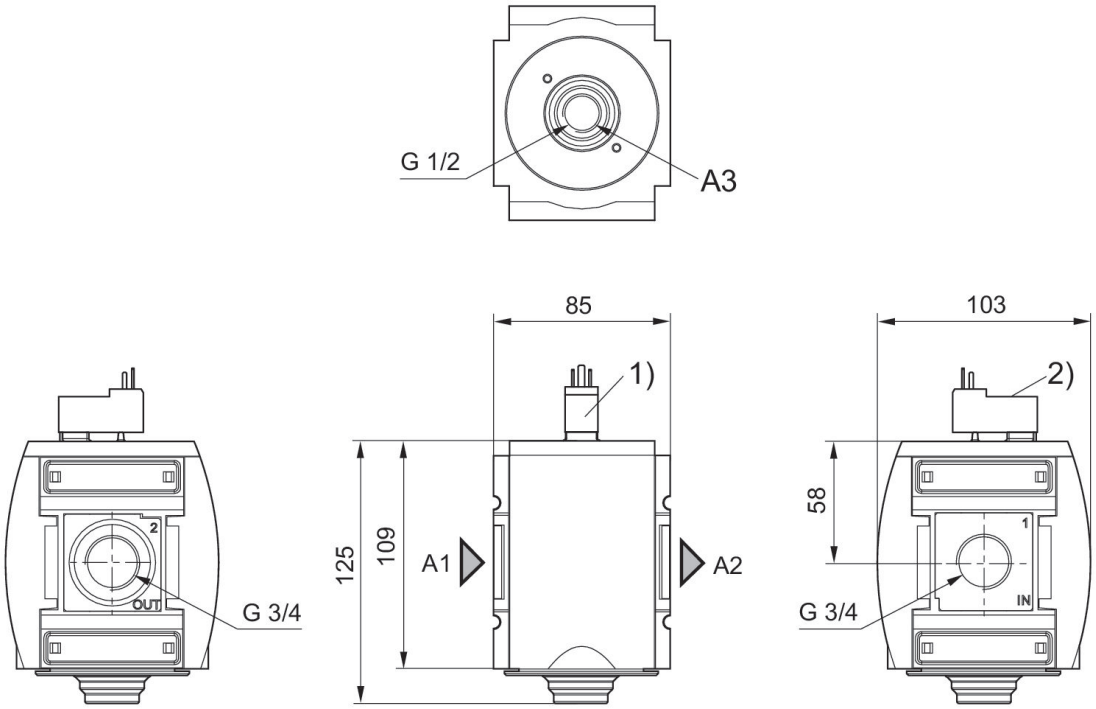
3/2-directional valve, electrically operated, Series AS5-SOV

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Part No.
G 3/4	12500	220-230 V AC	Basic valve with pilot valve	R412009267

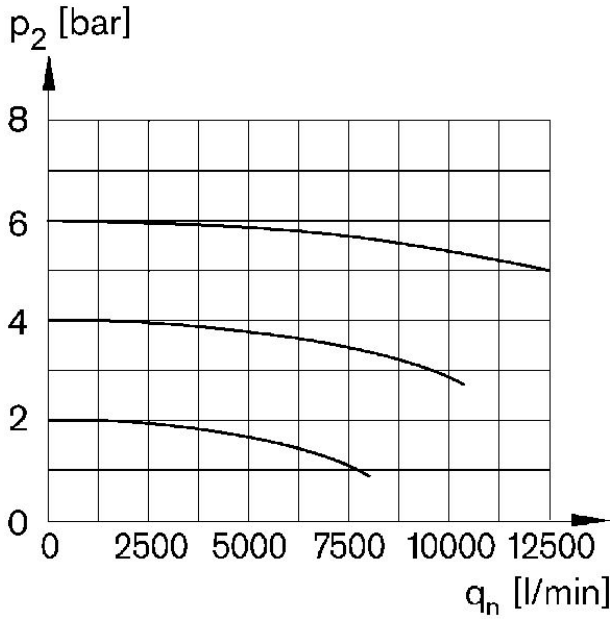
Dimensions in mm



A1 = input
A2 = output
A3 = ventilation port
1) For valve plug connectors according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic

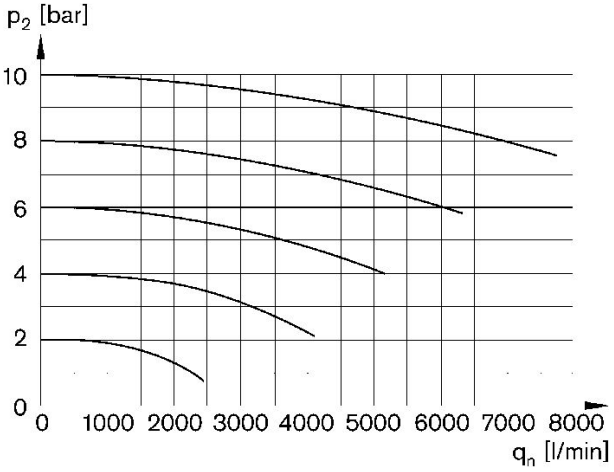
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

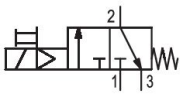
2 > 3



p2 = Secondary pressure
qn = Nominal flow

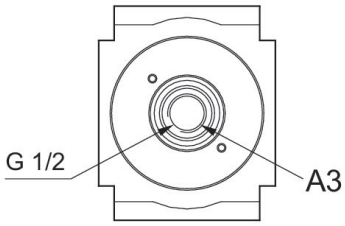
3/2-directional valve, electrically operated, Series AS5-SOV

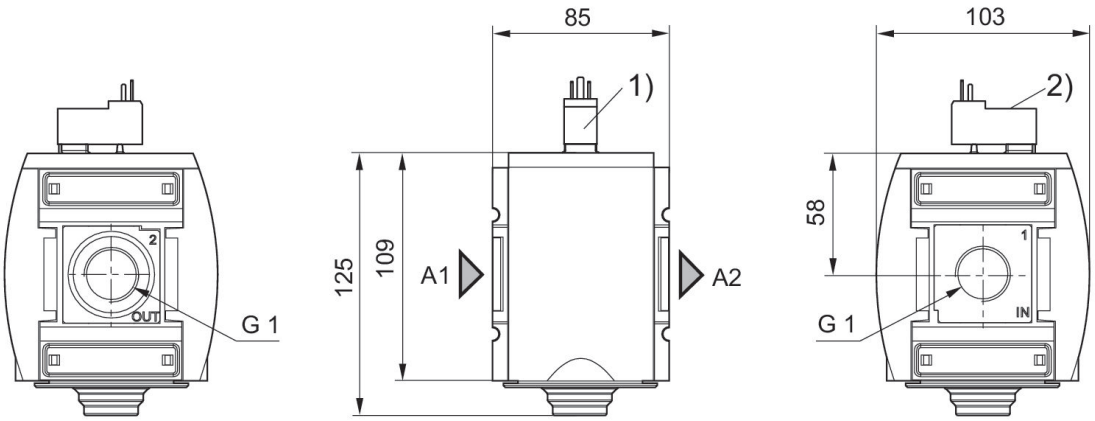
: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Basic valve equipment: Basic valve without pilot valve, with CNOMO subbase
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar



Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Part No.
G 1	12500	220-230 V AC	Basic valve with pilot valve	R412009271

Dimensions in mm

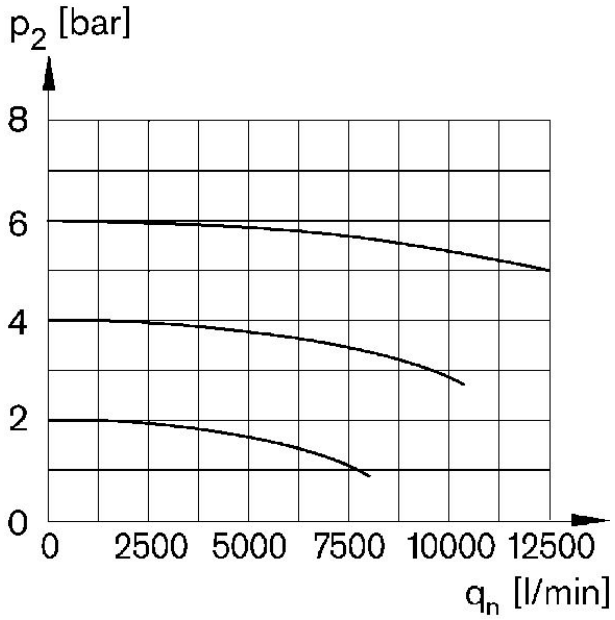




A1 = input
A2 = output
A3 = ventilation port
1) For valve plug connectors according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic

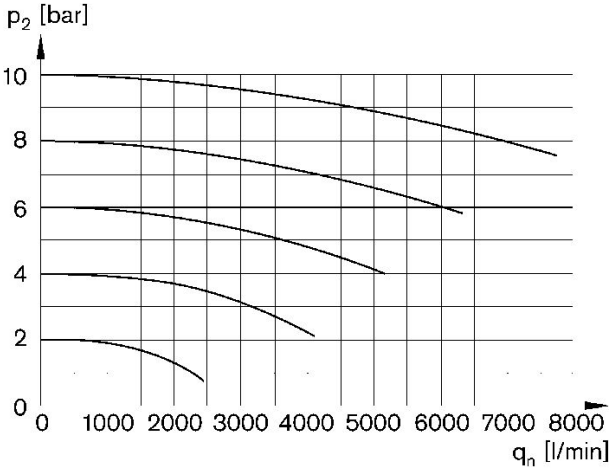
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

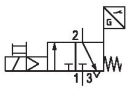
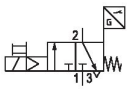
2 > 3



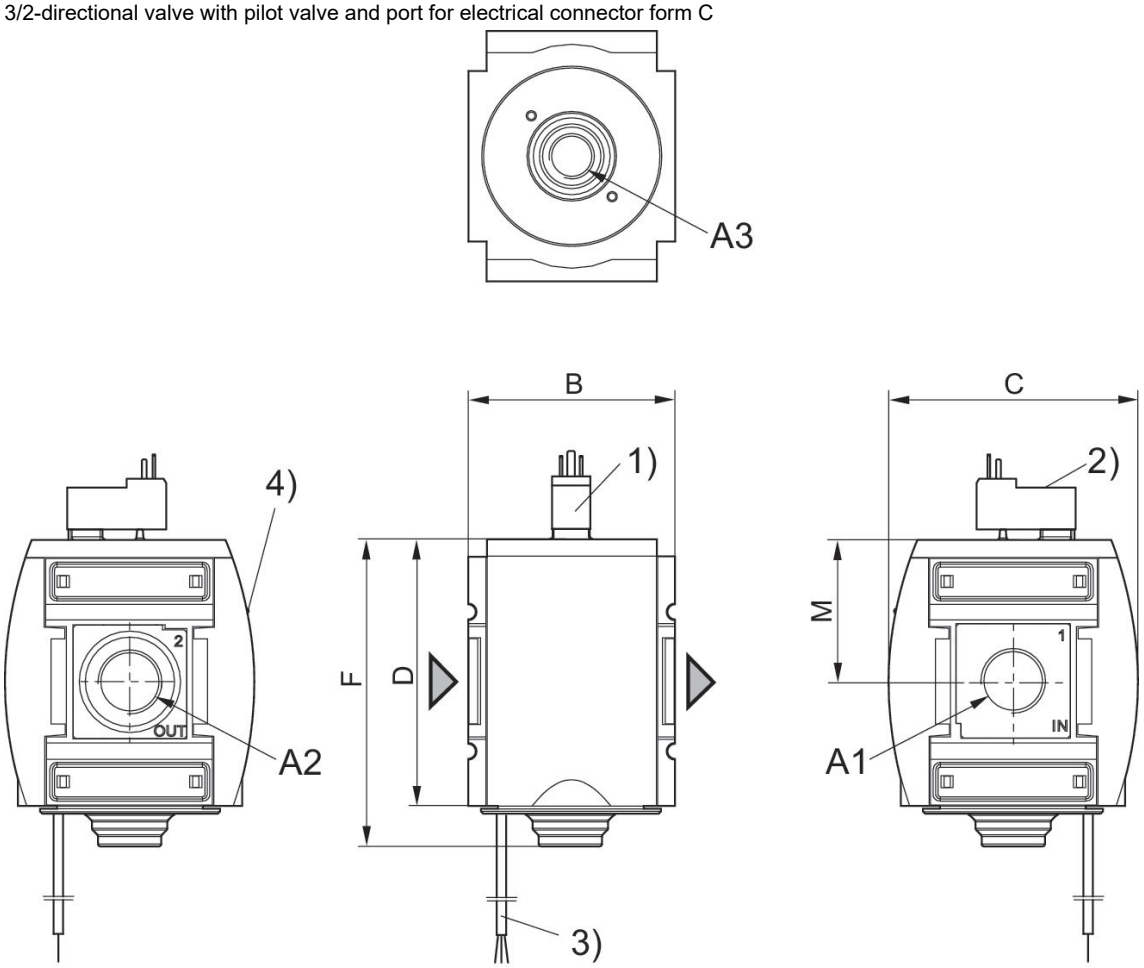
p2 = Secondary pressure
qn = Nominal flow

3/2-directional valve, electrically operated, Series AS5-SOV-...-POS

: Can be assembled into blocks
Flow: 12500 l/min
Activation: Electrically
Qn 1 > 2: 12500 l/min
Compressed air connection type: Internal thread
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2.5 bar ... 10 bar

	Port	Nominal flow [l/min]	Operational voltage	Basic valve equipment	Operational voltage DC	Part No.
	G 3/4	12500	24 V DC	Basic valve with pilot valve	24 V	R412009382
	G 1	12500	24 V DC	Basic valve with pilot valve	24 V	R412009388

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



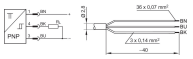
A1 = input A2 = output A3 = ventilation port
1) Electr. connection: valve plug connector form C, ISO 15217
2) Manual override
3) For version with sensor: cable length 3 m PUR.
4) Optical switch status indicator

Dimensions in mm

Part No.	A1	A2	A3	B	C	D	F	M
R412009382	G 3/4	G 3/4	G 1/2	85	103	109	125	58
R412009388	G 1	G 1	G 1/2	85	103	109	125	58

R412009382, R412009388

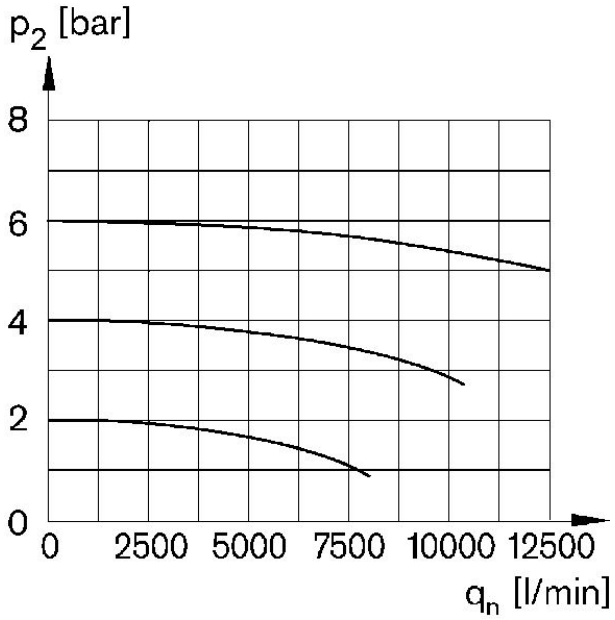
Sensor pin assignment, tin-plated wire ends



BN = brown
BK = black
BU = blue

Flow rate characteristic

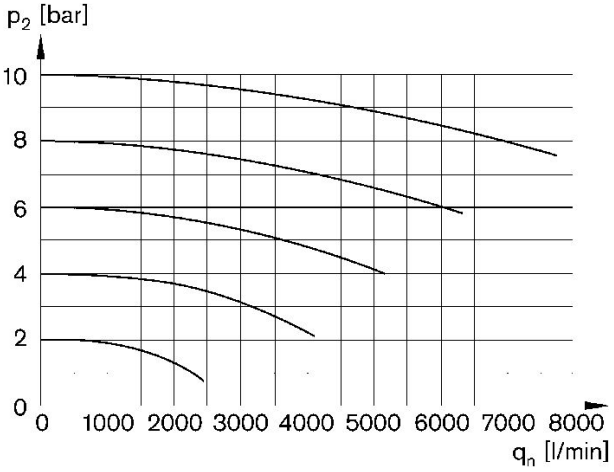
p2 = 0,05 - 7 bar, 1 > 2



p2 = Secondary pressure
qn = Nominal flow

Rear exhaust

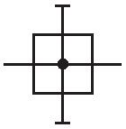
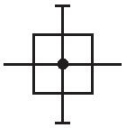
2 > 3



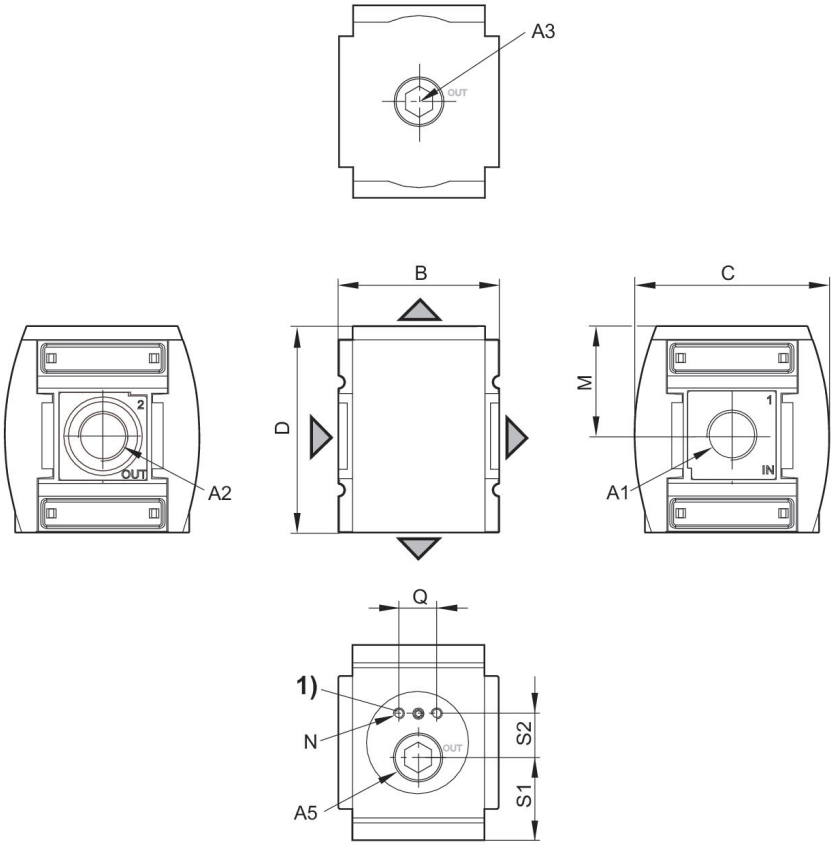
p2 = Secondary pressure
qn = Nominal flow

Distributor, Series AS5-DIS

Mounting orientation: Any
: Can be assembled into blocks
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 3/4	18000	R412009250
	G 1	18000	R412009251

Dimensions



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

Dimensions in mm

Part No.	A1	A2	A3	A5	B	C	D	M	N
R412009250	G 3/4	G 3/4	G 3/4	G 3/4	85	103	109	58	M5
R412009251	G 1	G 1	G 3/4	G 3/4	85	103	109	58	M5

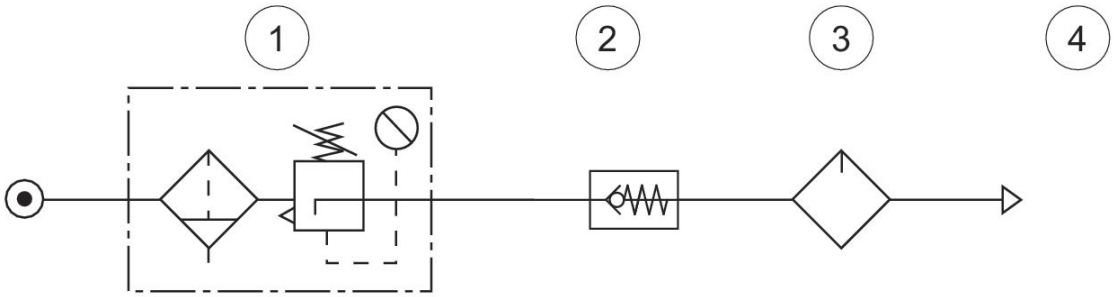
Part No.	Q	S1	S2
R412009250	20	44.5	22
R412009251	20	44.5	22

Distributor, Series AS5-DIN

Mounting orientation: Any
: Can be assembled into blocks
Qn 1 > 2: 16000 l/min
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0.4 bar ... 16 bar

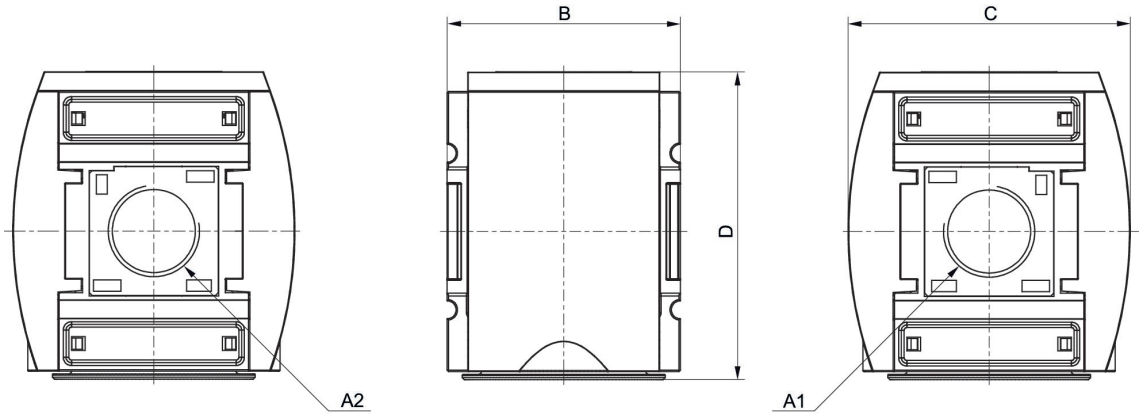
	Port	Nominal flow [l/min]	Part No.
	G 3/4	16000	R412009252
	G 1	16000	R412009253

usage



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

Dimensions

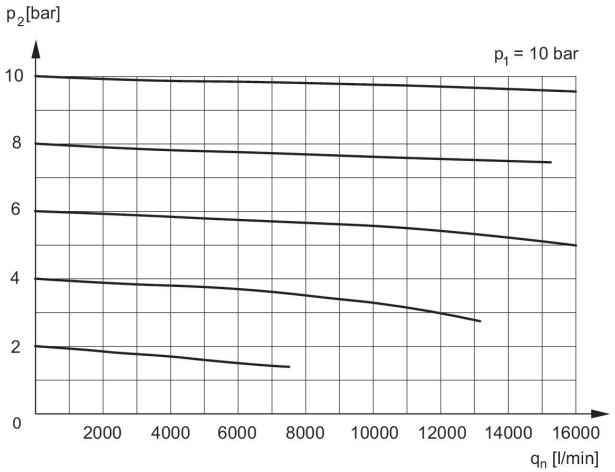


A1 = input A2 = output

Dimensions in mm

Part No.	A1	A2	B	C	D
R412009252	G 3/4	G 3/4	85	103	112
R412009253	G 1	G 1	85	103	112

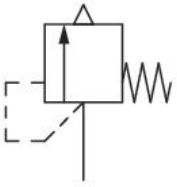
Flow rate characteristic, p2 = 0,05 - 7 bar



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

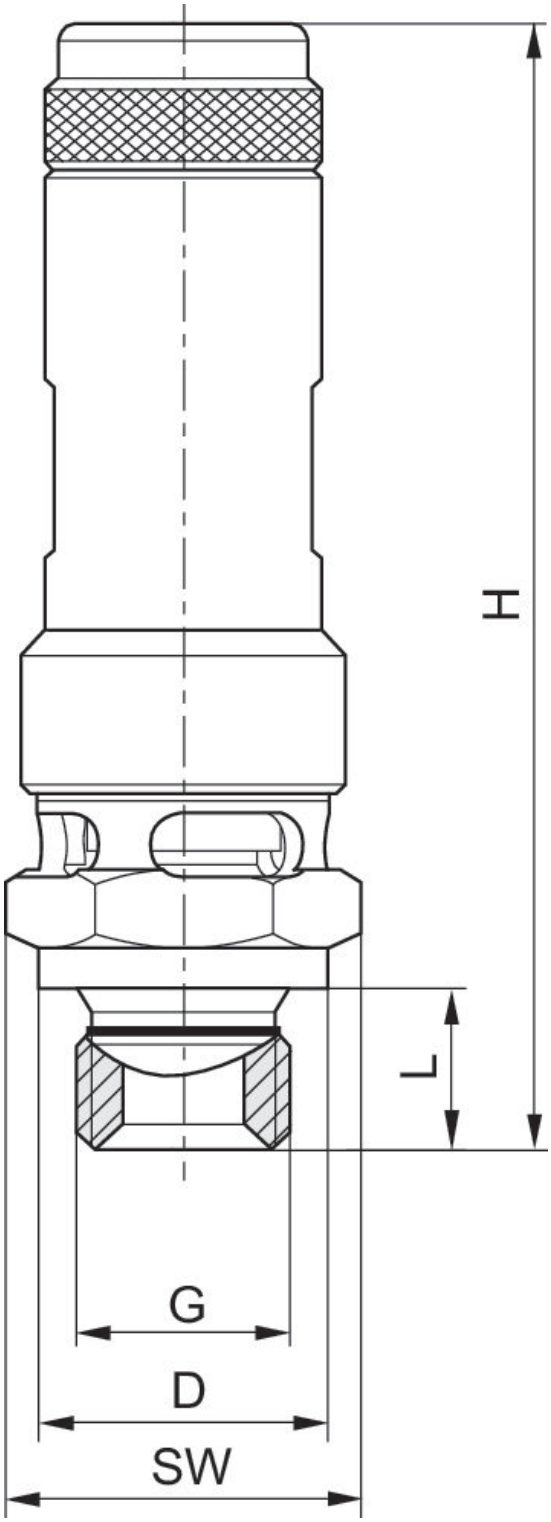
Series RV1

Compressed air connection type: External thread
Compressed air connection type 2: Uncollected
Temperature resistance: Heat resistant
Certificates: CE declaration of conformity
Ambient temperature min./max.: -20 °C ... 100 °C
Working pressure min./max.: 0 bar ... 20 bar



Compressed air connection 1	Nominal flow Qn 1 to 2 [l/min]	Opening pressure of valve [bar]	Housing material	Part No.
G 3/4	2627	0.5	Brass	R412007544
G 3/4	3783	1	Brass	R412007684
G 3/4	8737	3.5	Brass	R412007545
G 3/4	13690	6	Brass	R412007546
G 3/4	14754	6.5	Brass	R412007547
G 3/4	17653	8	Brass	R412007548
G 3/4	21616	10	Brass	R412007549
G 3/4	23598	11	Brass	R412007550
G 3/4	26570	12.5	Brass	R412007551
G 3/4	33505	16	Brass	R412007552

Dimensions



G = connection 1

Part No.	Port G	Ø D	H	L	SW	T [Nm]	NW
R412007521	G 1/4	18	69	10	19	30	8
R412007522	G 1/4	18	69	10	19	30	8
R412007523	G 1/4	18	69	10	19	30	8
R412007524	G 1/4	18	69	10	19	30	8
R412007525	G 1/4	18	69	10	19	30	8
R412007526	G 1/4	18	69	10	19	30	8
R412007527	G 1/4	18	69	10	19	30	8
R412007528	G 1/4	18	69	10	19	30	8
R412007529	G 1/4	18	69	10	19	30	8
R412007530	G 1/4	18	69	10	19	30	8
R412007531	G 1/4	18	69	10	19	30	8
R412007532	G 1/4	18	69	10	19	30	8
R412007533	G 3/8	22	75	10	24	40	10
R412007534	G 3/8	22	75	10	24	40	10
R412007535	G 3/8	22	75	10	24	40	10
R412007721	G 3/8	22	75	10	24	40	10
R412007536	G 3/8	22	75	10	24	40	10
R412007537	G 3/8	22	75	10	24	40	10
R412007538	G 3/8	22	75	10	24	40	10
R412007539	G 3/8	22	88	10	24	40	10
R412007540	G 3/8	22	88	10	24	40	10
R412007541	G 3/8	22	88	10	24	40	10
R412007542	G 1/2	26	78	12	27	50	15
R412007720	G 1/2	26	78	12	27	50	15
R412007690	G 1/2	26	78	12	27	50	15
R412007691	G 1/2	26	78	12	27	50	15
R412007692	G 1/2	26	78	12	27	50	15
R412007699	G 1/2	26	78	12	27	50	15
R412007696	G 1/2	26	78	12	27	50	15
R412007702	G 1/2	26	78	12	27	50	15
R412007698	G 1/2	26	78	12	27	50	15
R412007697	G 1/2	26	77.5	12	27	50	15
R412007693	G 1/2	26	91	12	27	50	15
R412007694	G 1/2	26	91	12	27	50	15
R412007700	G 1/2	26	91	12	27	50	15
R412007701	G 1/2	26	91	12	27	50	15
R412007695	G 1/2	26	91	12	27	50	15
R412007703	G 1/2	26	91	12	27	50	15
R412007543	G 1/2	26	91	12	27	50	15
R412007544	G 3/4	32	106	12	30	60	20
R412007684	G 3/4	32	106	12	30	60	20
R412007545	G 3/4	32	106	12	30	60	20
R412007546	G 3/4	32	106	12	30	60	20
R412007547	G 3/4	32	106	12	30	60	20
R412007548	G 3/4	32	106	12	30	60	20
R412007549	G 3/4	32	116	12	30	60	20
R412007550	G 3/4	32	116	12	30	60	20
R412007551	G 3/4	32	116	12	30	60	20
R412007552	G 3/4	32	116	12	30	60	20

NW = nominal width

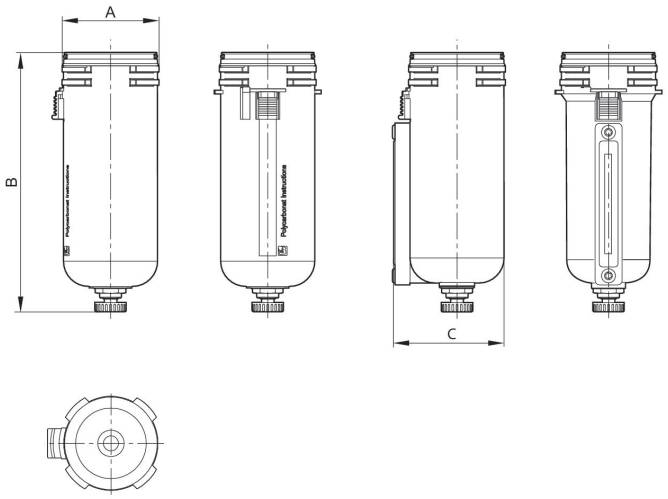
Reservoir, Series AS5-CLS/ -CLP/ -CLC

Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

Condensate drain	Reservoir	Filter reservoir volume [cm³]	Fig.	Version	Part No.
semi-automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	87	Fig. 1	reservoir, polycarbonate, with PA protective guard	R412009338
fully automatic, open without pressure	reservoir, polycarbonate, with PA protective guard	87	Fig. 2	reservoir, polycarbonate, with PA protective guard	R412009339
fully automatic, closed without pressure	reservoir, polycarbonate, with PA protective guard	87	Fig. 2	reservoir, polycarbonate, with PA protective guard	R412009340
semi-automatic, open without pressure	reservoir, metal, with inspection glass	87	Fig. 1	reservoir, metal, with inspection glass	R412009344
fully automatic, open without pressure	reservoir, metal, with inspection glass	87	Fig. 2	reservoir, metal, with inspection glass	R412009345
fully automatic, closed without pressure	reservoir, metal, with inspection glass	87	Fig. 2	reservoir, metal, with inspection glass	R412009346

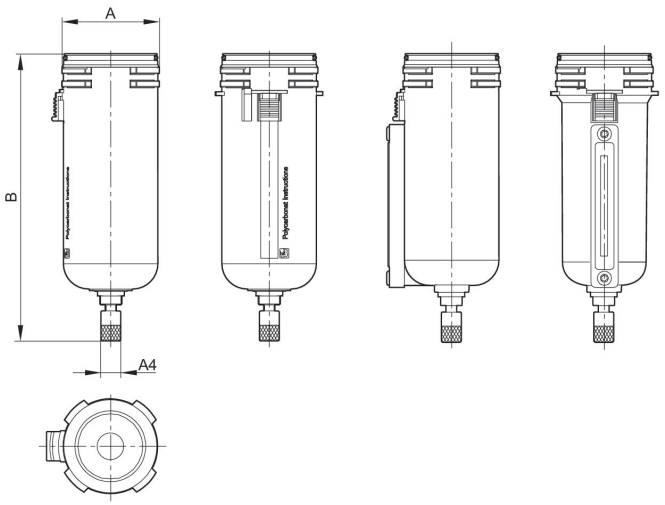
R412009338, R412009344

Dimensions



R412009339, R412009340, R412009345, R412009346

Dimensions

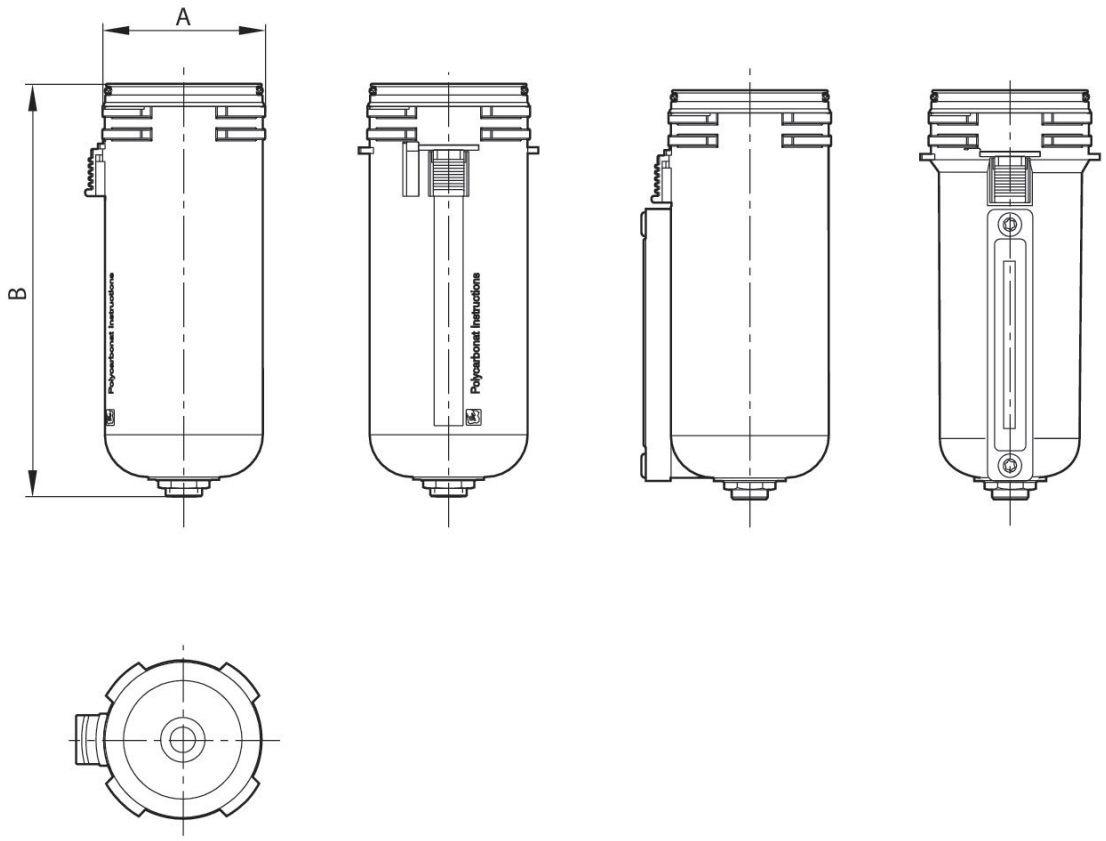


Reservoir, Series AS5-CLA

Filter reservoir volume: 87 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 16 bar

Reservoir	Filter reservoir volume [cm³]	Version	Part No.
reservoir, polycarbonate, with PA protective guard	87	reservoir, polycarbonate, with PA protective guard	R412009347
reservoir, metal, with inspection glass	87	reservoir, metal, with inspection glass	R412009349

Dimensions



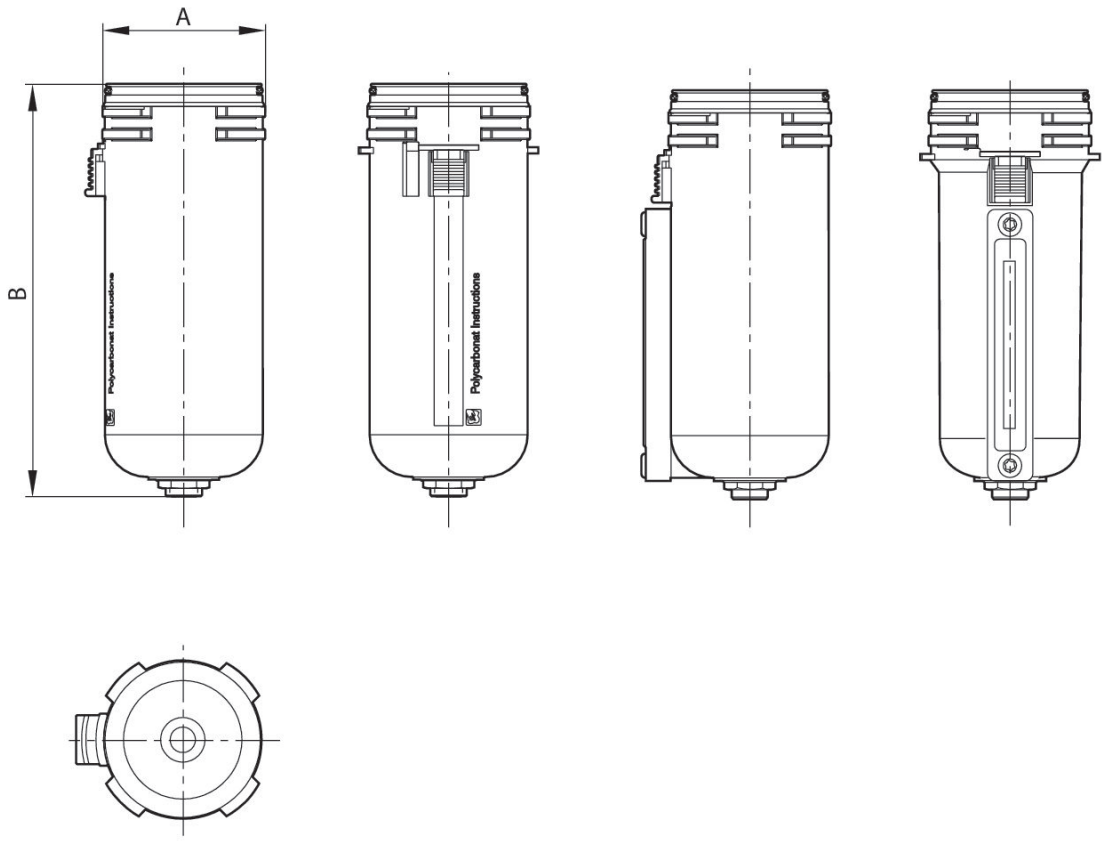
Part No.	A	B
R412009347	60	157.5
R412009349	60	157.5

Reservoir, Series AS5-CBS

Lubricator reservoir volume: 181 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 16 bar

Reservoir	Version	Part No.
reservoir, polycarbonate, with PA protective guard	reservoir, polycarbonate, with PA protective guard	R412009351
reservoir, polycarbonate, with PA protective guard	reservoir, polycarbonate, with PA protective guard	R412009352
reservoir, metal, with inspection glass	reservoir, metal, with inspection glass	R412009358

Dimensions



Part No.	A	B
R412009351	60	154.8
R412009352	60	154.8
R412009358	60	154.8

Pressure gauge, Series PG1-SAS

Ambient temperature min./max.: -40 °C ... 60 °C
Working pressure min./max.: 0 bar

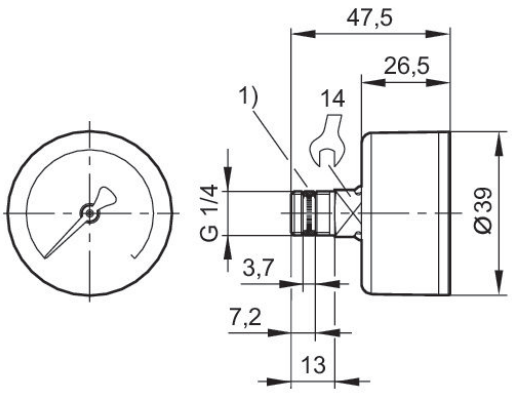
	Type	Nominal diameter [mm]	Port	Min. main scale range of application [bar]	Max. main scale range of application [bar]	Min. main scale display range [bar]	Max. main scale display range [bar]	Part No.
	Bourdon tube pressure gauge	40	G 1/4	0	1.2	0	1.6	R412004407
	Bourdon tube pressure gauge	40	G 1/4	0	2	0	2.5	R412004408
	Bourdon tube pressure gauge	40	G 1/4	0	3.2	0	4	R412004409
	Bourdon tube pressure gauge	40	G 1/4	0	4	0	6	R412004410
	Bourdon tube pressure gauge	40	G 1/4	0	8	0	10	R412004411
	Bourdon tube pressure gauge	40	G 1/4	0	12	0	16	R412004412

	Type	Nominal diameter [mm]	Port	Min. main scale range of application [bar]	Max. main scale range of application [bar]	Min. main scale display range [bar]	Max. main scale display range [bar]	Part No.
	Bourdon tube pressure gauge	50	G 1/4	0	1.2	0	1.6	R412004413
	Bourdon tube pressure gauge	50	G 1/4	0	2	0	2.5	R412004414
	Bourdon tube pressure gauge	50	G 1/4	0	3.2	0	4	R412004415
	Bourdon tube pressure gauge	50	G 1/4	0	4	0	6	R412004416
	Bourdon tube pressure gauge	50	G 1/4	0	8	0	10	R412004417
	Bourdon tube pressure gauge	50	G 1/4	0	12	0	16	R412004418
	Bourdon tube pressure gauge	50	G 1/4	0	20	0	25	R412007898
	Bourdon tube pressure gauge	63	G 1/4	0	1.2	0	1.6	R412004419
	Bourdon tube pressure gauge	63	G 1/4	0	2	0	2.5	R412004420

	Type	Nominal diameter [mm]	Port	Min. main scale range of application [bar]	Max. main scale range of application [bar]	Min. main scale display range [bar]	Max. main scale display range [bar]	Part No.
	Bourdon tube pressure gauge	63	G 1/4	0	3.2	0	4	R412004421
	Bourdon tube pressure gauge	63	G 1/4	0	4	0	6	R412004422
	Bourdon tube pressure gauge	63	G 1/4	0	8	0	10	R412004423
	Bourdon tube pressure gauge	63	G 1/4	0	12	0	16	R412004424

R412004407, R412004408, R412004409, R412004410, R412004411, R412004412

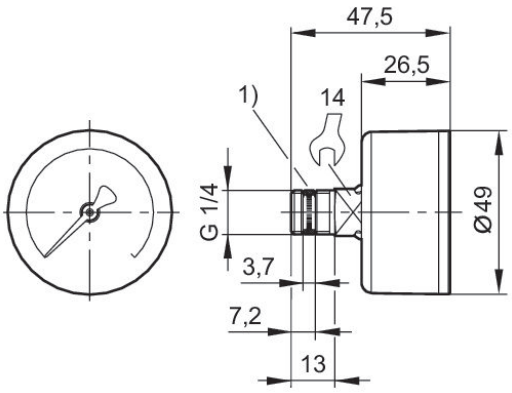
Dimensions in mm



1) Gasket thread

R412004413, R412004414, R412004415, R412004416, R412004417, R412004418, R412007898

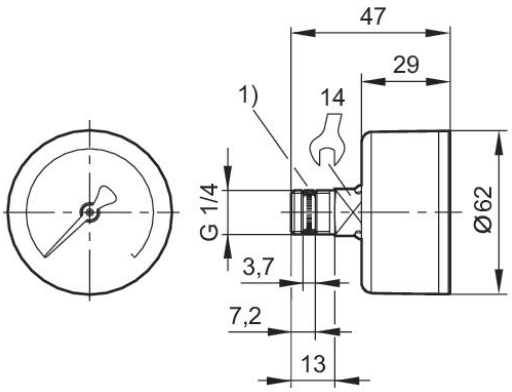
Dimensions in mm



1) Gasket thread

R412004419, R412004420, R412004421, R412004422, R412004423, R412004424

Dimensions in mm



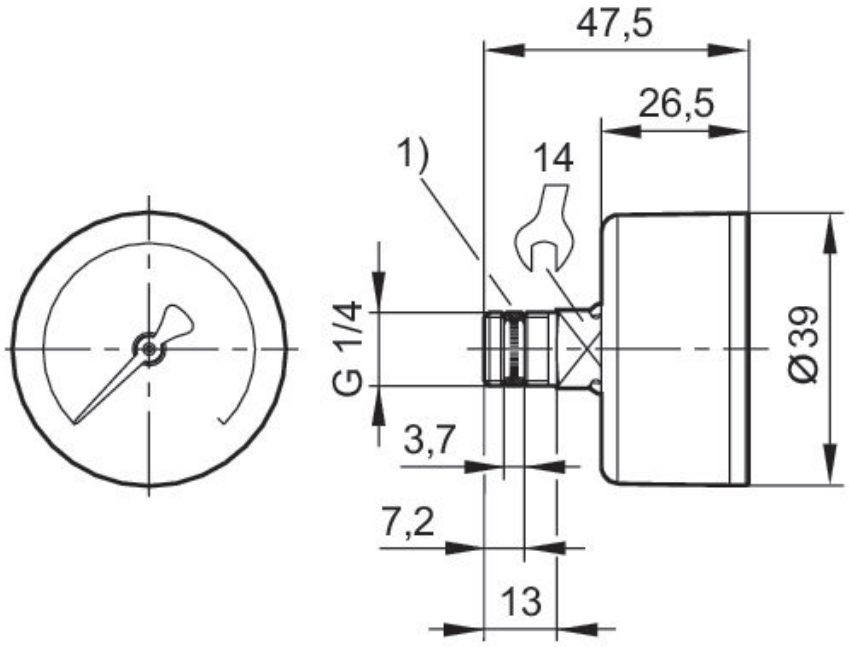
1) Gasket thread

Pressure gauge, Series PG1-SAS-ADJ

Ambient temperature min./max.: -40 °C ... 60 °C
Working pressure min./max.: 0 bar

	Type	Nominal diameter [mm]	Port	Min. main scale range of application [bar]	Max. main scale range of application [bar]	Min. main scale display range [bar]	Max. main scale display range [bar]	Part No.
	Bourdon tube pressure gauge	50	G 1/4	0	1.2	0	1.6	R412007867
	Bourdon tube pressure gauge	50	G 1/4	0	2	0	2.5	R412007868
	Bourdon tube pressure gauge	50	G 1/4	0	3.2	0	4	R412007869
	Bourdon tube pressure gauge	50	G 1/4	0	4	0	6	R412007870
	Bourdon tube pressure gauge	50	G 1/4	0	8	0	10	R412007871
	Bourdon tube pressure gauge	50	G 1/4	0	12	0	16	R412007872

Dimensions in mm



1) Gasket thread

Dimensions in mm

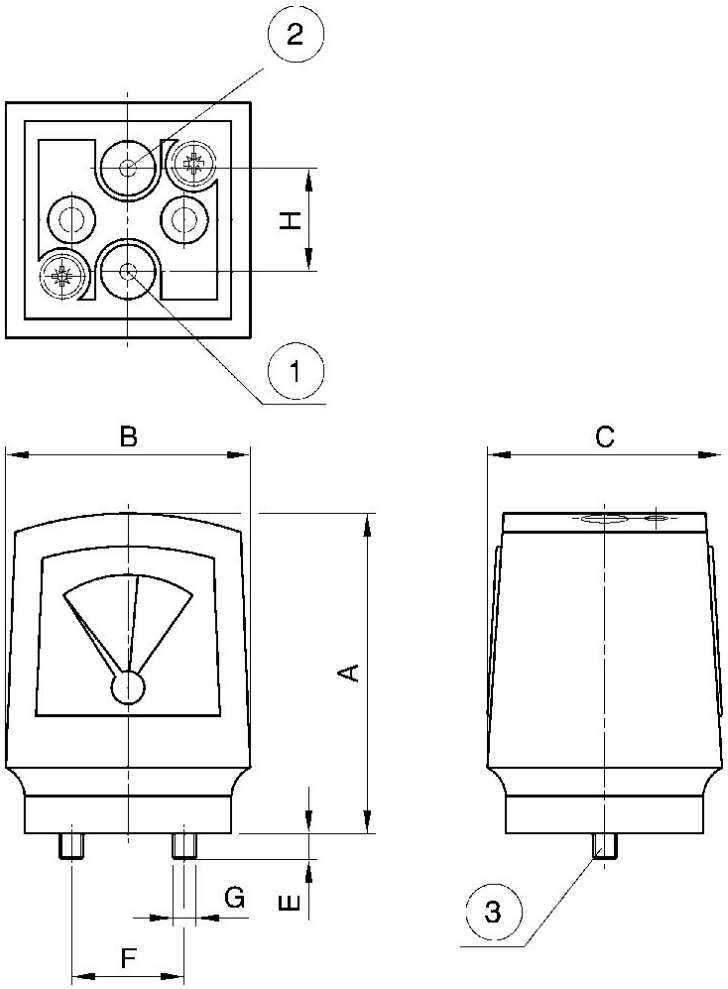
	Compressed air connection	Nominal diameter	Ø A	B	C	D	E	F	SW
R412007867	G 1/4	50	49	47.5	26.5	13	7.2	3.7	14
R412007868	G 1/4	50	49	47.5	26.5	13	7.2	3.7	14
R412007869	G 1/4	50	49	47.5	26.5	13	7.2	3.7	14
R412007870	G 1/4	50	49	47.5	26.5	13	7.2	3.7	14
R412007871	G 1/4	50	49	47.5	26.5	13	7.2	3.7	14
R412007872	G 1/4	50	49	47.5	26.5	13	7.2	3.7	14

Pressure gauge, Series PG1-DIM

Mounting orientation: vertical
Ambient temperature min./max.: 0 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar

	Type	Min. main scale range of application [bar]	Max. main scale range of application [bar]	Min. main scale display range [bar]	Max. main scale display range [bar]	Part No.
	Diaphragm pressure gauge	0	0.5	0	0.5	1827231072

Dimensions



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

Dimensions in mm

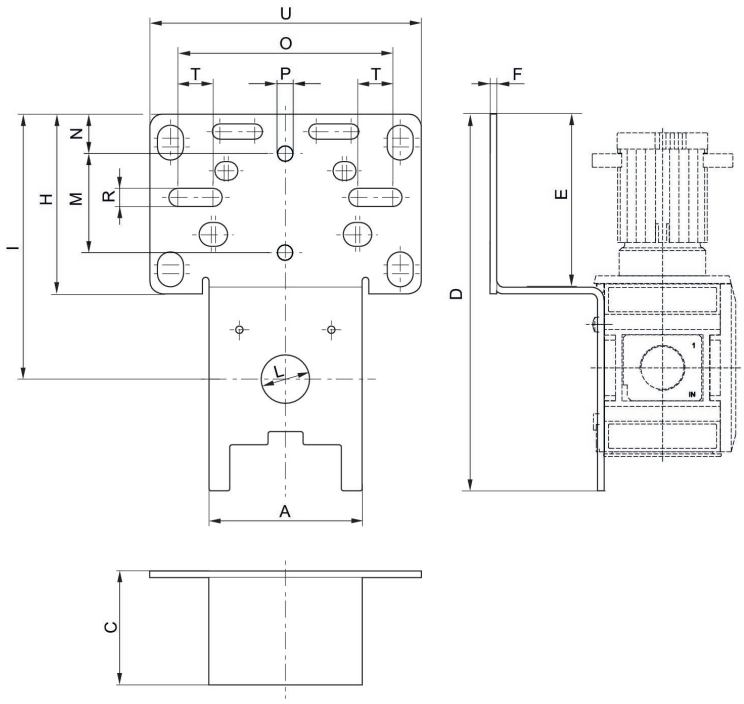
Part No.	A	B	C	E	F	G	H
1827231072	68	52	50	6	24	M5	22

Mounting plate, Series AS5-MBR-...-W01

Ambient temperature min./max.: -10 °C ... 50 °C

Material	Part No.
Steel, chrome-plated	R412009368

Dimensions



Dimensions in mm

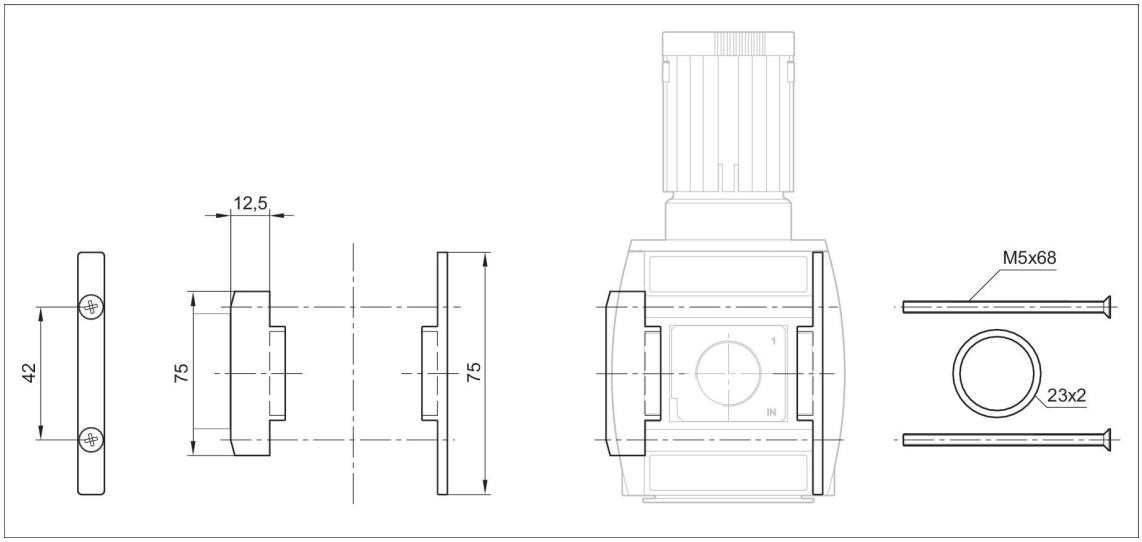
Part No.	A	C	D	E	F	H	I	L	M
R412009368	70	52	172	79	3	82	121	22	45

Part No.	N	O	P	R	T	U
R412009368	18.5	98	6.5	7	16	124

Mounting clip, Series AS5-MBR-...-W03

Ambient temperature min./max.: -10 °C ... 50 °C

Material	Part No.
Polyamide	R412009370

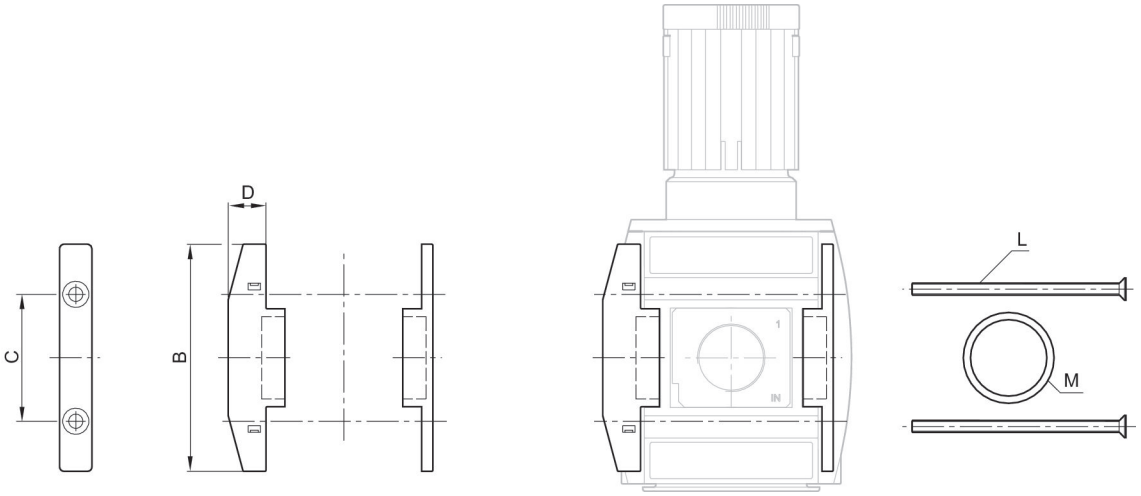


Block assembly kit, Series AS5-MBR-...-W04

Ambient temperature min./max.: -10 °C ... 50 °C

Material	Part No.
Polyamide	R412009371

Dimensions



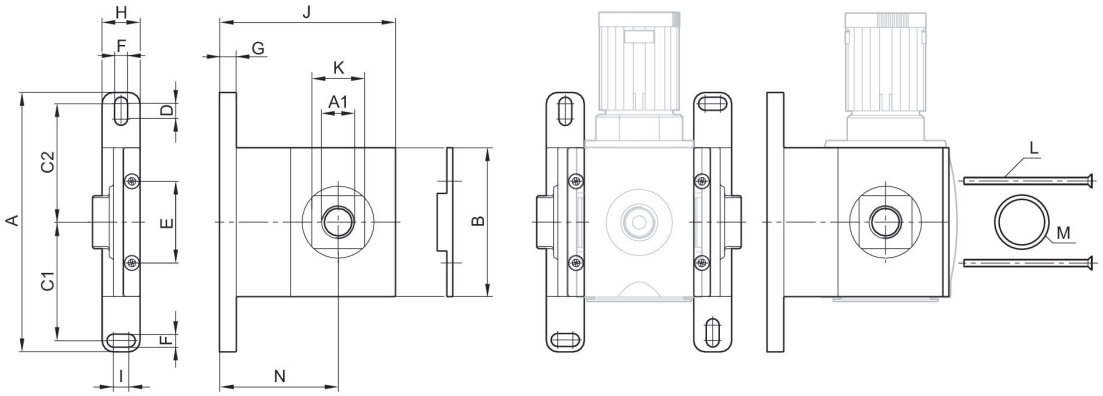
Part No.	B	C	D	L	M
R412009371	102	57	17	M6x90	37x2,3

Block assembly kit, Series AS5-MBR-...-W05

Ambient temperature min./max.: -10 °C ... 50 °C

Port	Material	Part No.
G 3/4	Die cast zinc	R412009366
G 1	Die cast zinc	R412009367

Dimensions



Part No.	A1	A	B	C1	C2	D	E	F	G
R412009366	G 3/4	160	102	72.5	72.5	10	57	8.4	10
R412009367	G 1	160	102	72.5	72.5	10	57	8.4	10

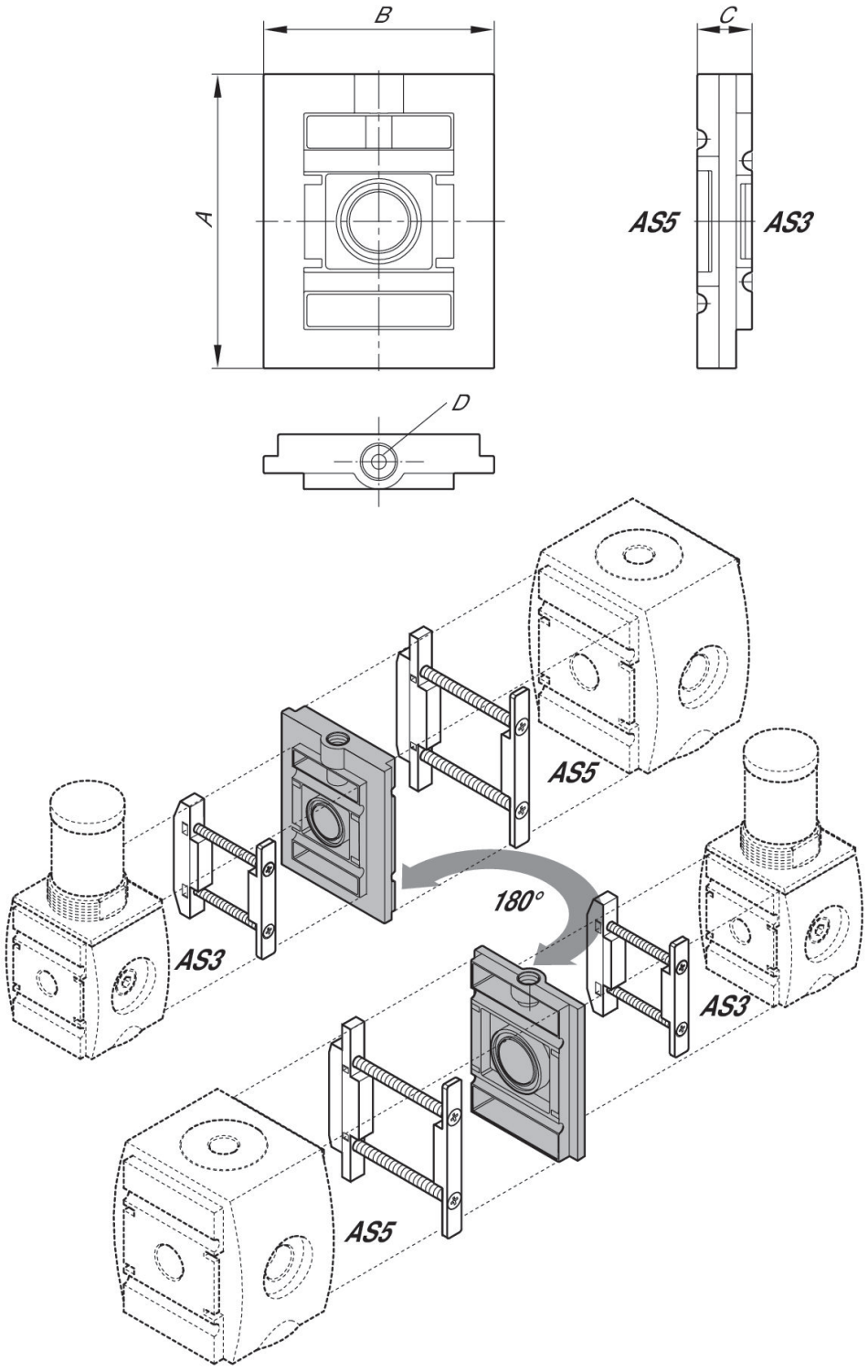
Part No.	H	I	J	K	L	M	N
R412009366	30	10	127	41	M6x90	37x2,3	87
R412009367	30	10	127	41	M6x90	37x2,3	87

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

Ambient temperature min./max.: -10 °C ... 50 °C

Port	Material	Part No.
G 1/4	Polyamide	R412010122

Dimensions



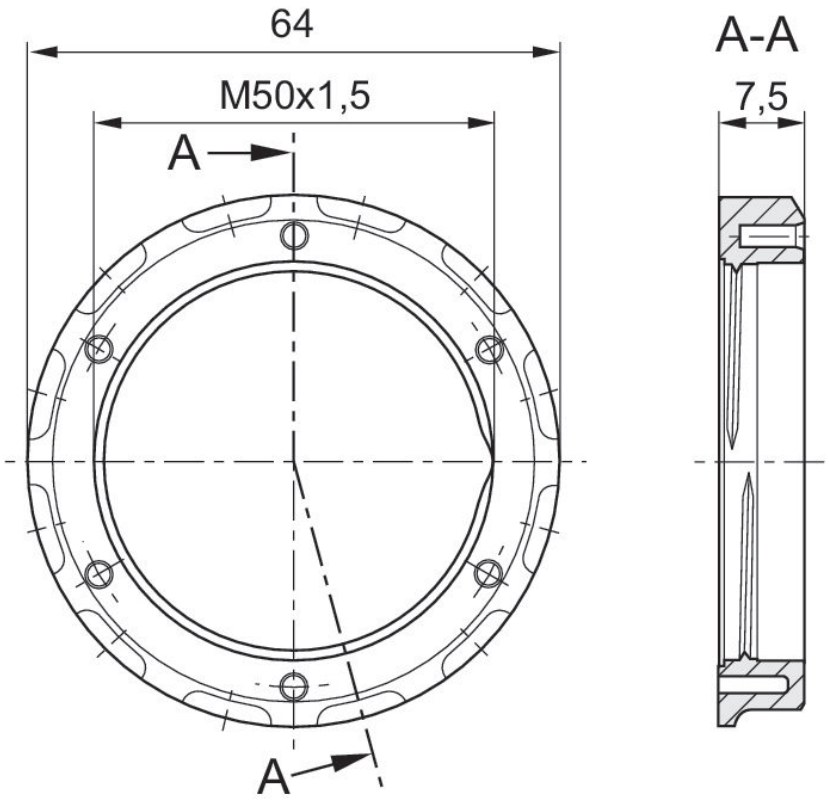
Dimensions in mm

Part No.	A	B	C	D
R412010122	102	80	18	G 1/4

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

Port	Material	Scope of delivery [piece]	Part No.
M50x1.5	Plastic	2	1829234071

Dimensions in mm



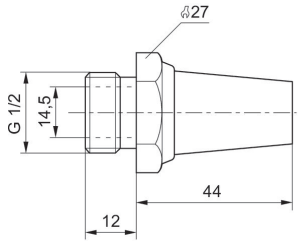
Silencers, series SI1, Sintered bronze

Compressed air connection type: External thread
Silencer material: Sintered bronze
Ambient temperature min./max.: -25 °C ... 80 °C
Working pressure min./max.: 0 bar ... 10 bar

G	Sound pressure level [dB]	Nominal flow [l/min]	Delivery unit [piece]	Weight [kg]	Part No.
G 1/2	90	7223	2	0.08	1827000003
G 3/4	92	8394	1	0.13	1827000004

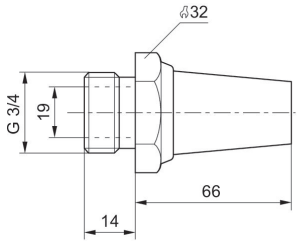
1827000003

Dimensions in mm



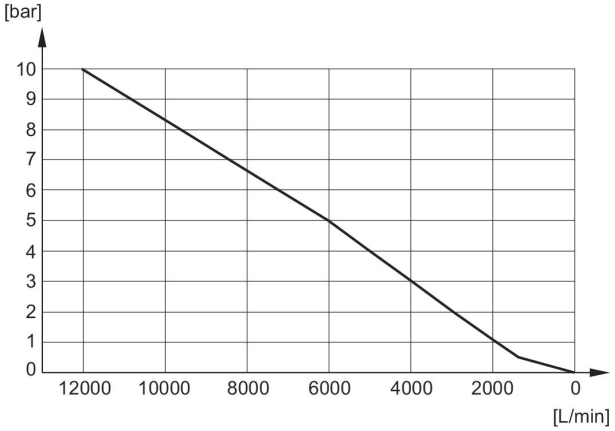
1827000004

Dimensions in mm



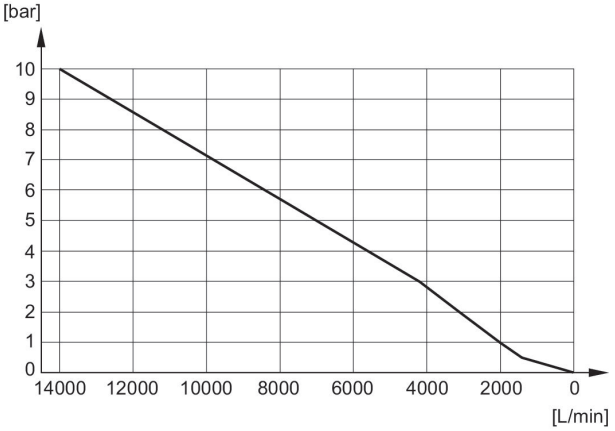
Flow diagram

1827000003



Flow diagram

1827000004

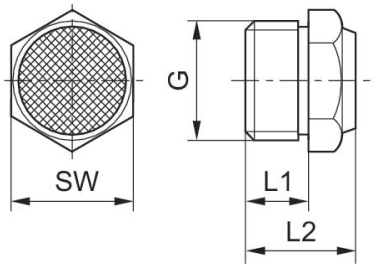


Silencers, series SI1, Sintered bronze

Compressed air connection type: External thread
Silencer material: Sintered bronze
Ambient temperature min./max.: -25 °C ... 80 °C
Working pressure min./max.: 0 bar ... 10 bar

G	Sound pressure level [dB]	Nominal flow [l/min]	Delivery unit [piece]	Weight [kg]	Part No.
G 1/2	85	2568	2	0.035	1827000035

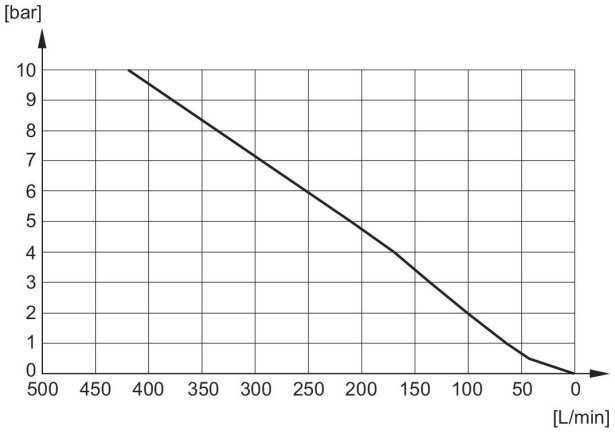
Dimensions



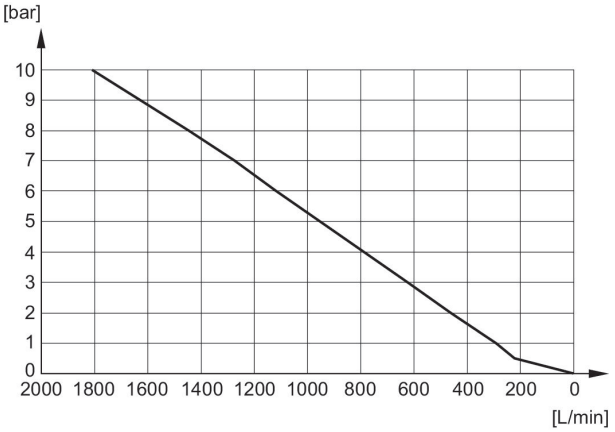
Part No.	Port G	L1	L2	SW
1827000032	M5	5	10.3	7
1827000031	G 1/8	6	11.5	13
1827000033	G 1/4	8	13.5	17
1827000034	G 3/8	10	17.5	22
1827000035	G 1/2	12	19.5	27
8145003400	G 3/4	14	22.5	32
8145001000	G 1	16	22.5	41

Sound pressure level measured at 6 bar at 1 m distance

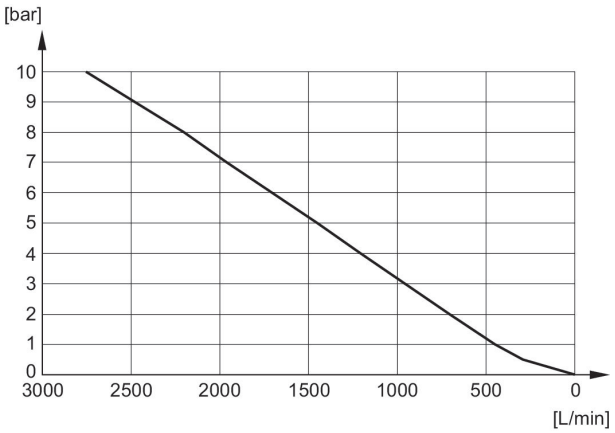
Flow diagram1827000032



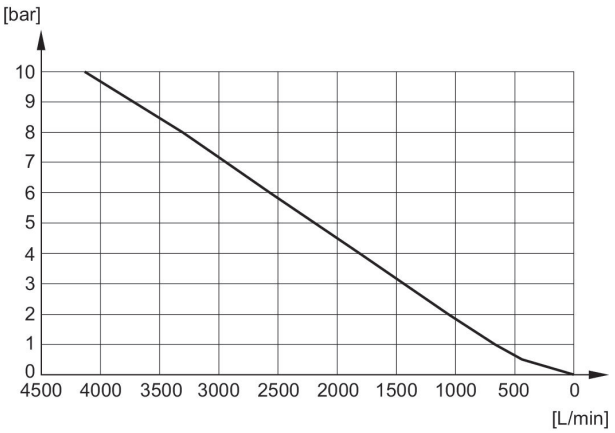
Flow diagram 1827000033



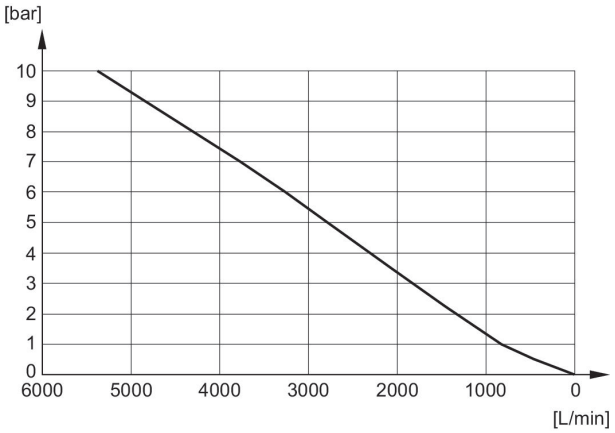
Flow diagram 1827000034



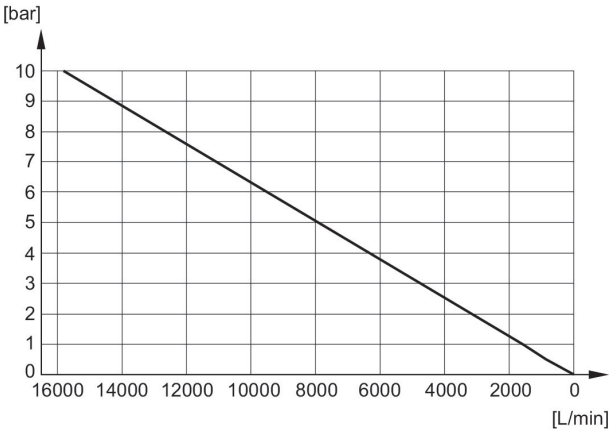
Flow diagram 1827000035



Flow diagram 8145003400



Flow diagram 8145001000

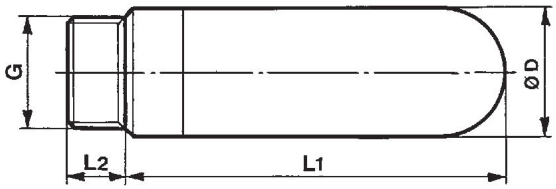


Silencers, series SI1, Polyethylene

Compressed air connection type: External thread
Silencer material: Polyethylene
Ambient temperature min./max.: -25 °C ... 80 °C
Working pressure min./max.: 0 bar ... 10 bar

G	Sound pressure level [dB]	Nominal flow [l/min]	Delivery unit [piece]	Weight [kg]	Part No.
G 1/2	88	7142	1	0.013	1827000022

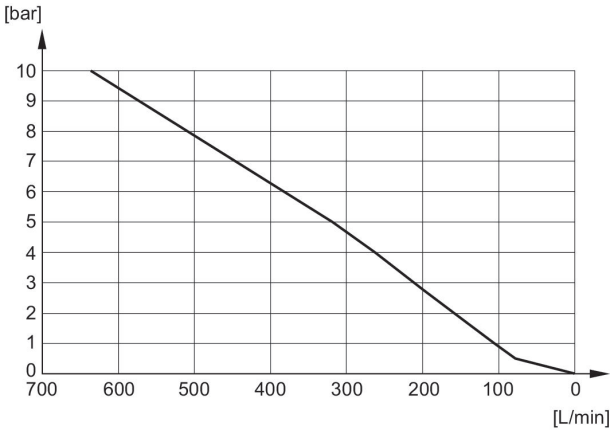
Dimensions



Part No.	Port G	Ø D	L1	L2
1827000018	M5	6.5	17.5	4
1827000019	G 1/8	12.5	28.5	5.5
1827000020	G 1/4	15.5	34.5	8
1827000021	G 3/8	18.5	56	11.5
1827000022	G 1/2	23.3	66.5	11
1827000023	G 3/4	38.5	115.5	16
1827000024	G 1	49	140	21

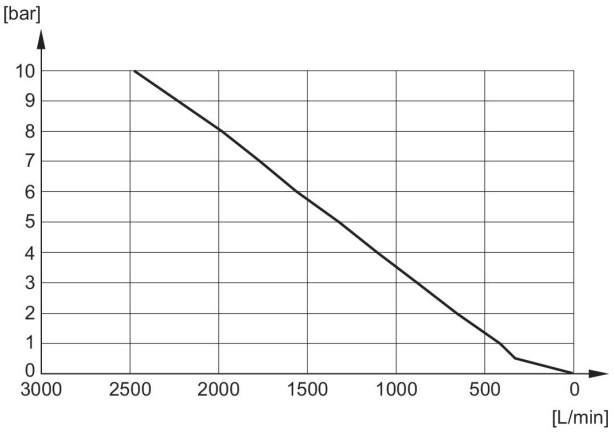
Flow diagram

1827000018



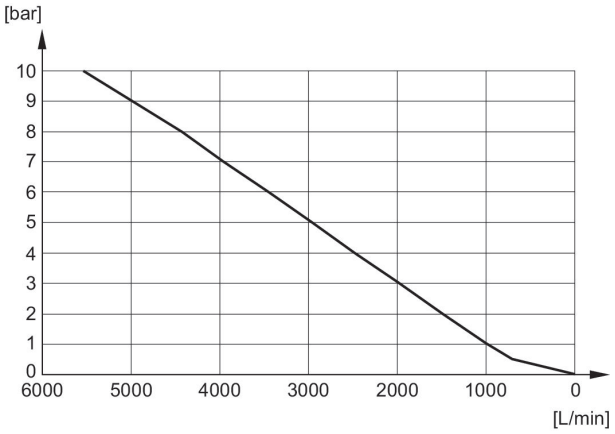
Flow diagram

1827000019



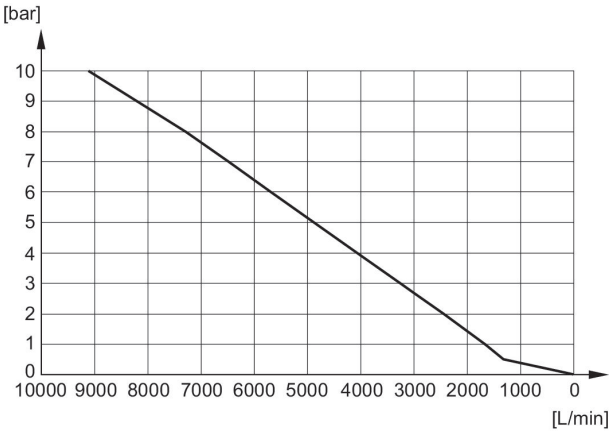
Flow diagram

1827000020



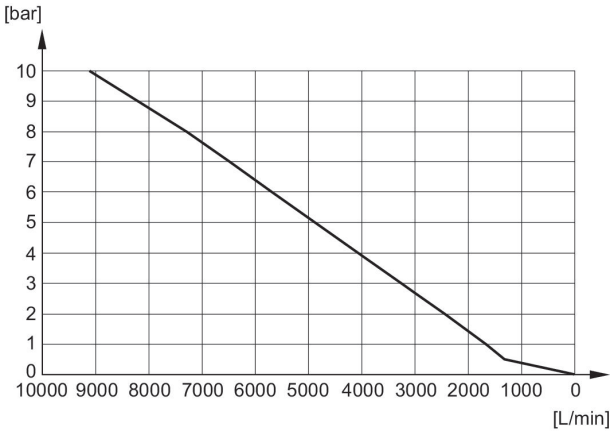
Flow diagram

1827000021



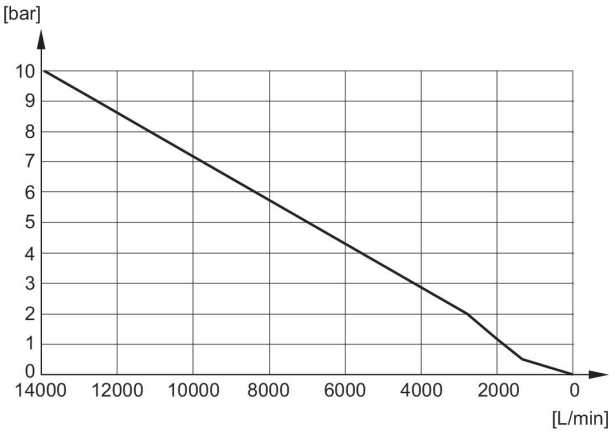
Flow diagram

1827000022



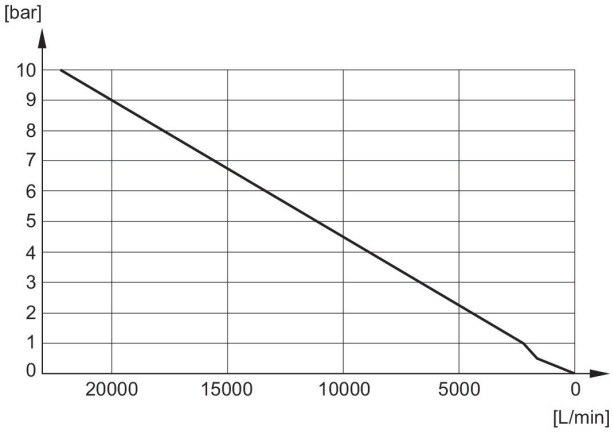
Flow diagram

1827000023



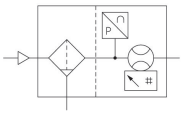
Flow diagram

1827000024



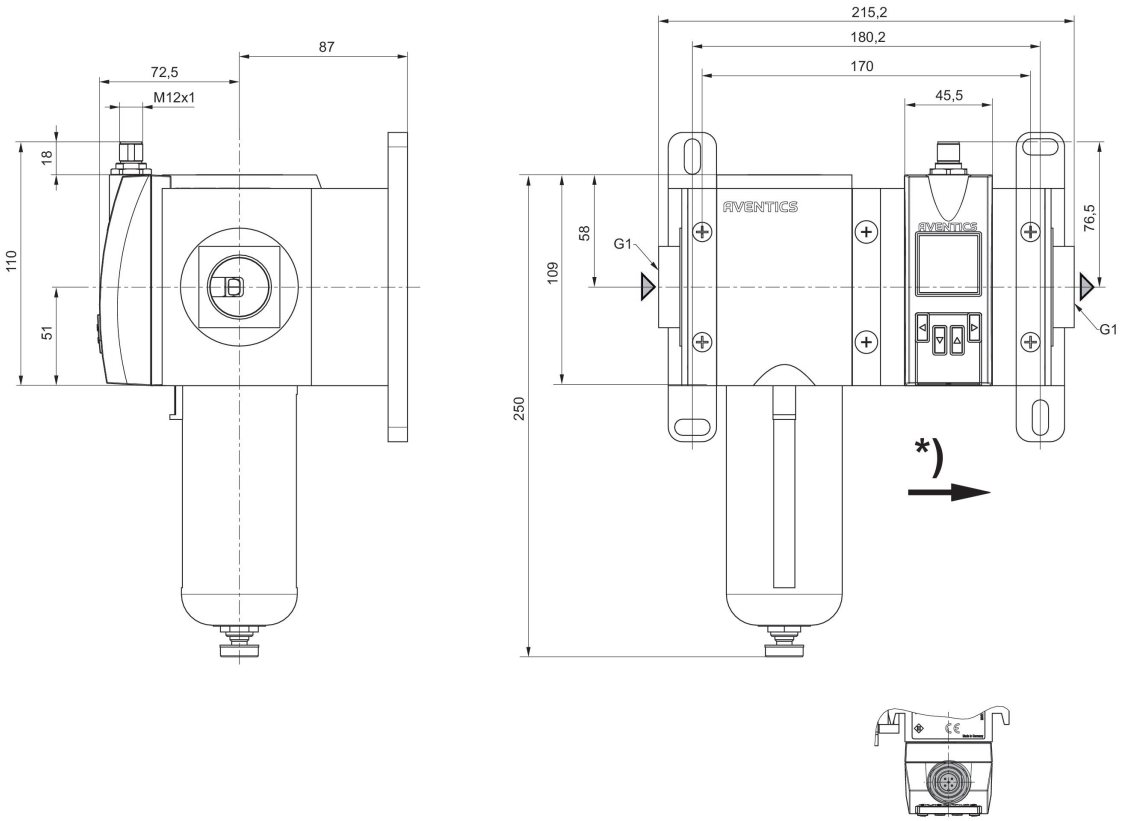
Series AF2 flow rate sensor, IO-Link, with mounting

Electrical connection 2, thread size: M12x1
Frame size: AS5
Certificates: CE declaration of conformity, RoHS, UL (Underwriters Laboratories)
Electrical connection 2, number of poles: 5-pin
Ambient temperature min./max.: -20 °C ... 60 °C
Medium temperature min./max.: -20 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar



Frame size	Protocol	Output signal	Operational voltage	Port	Flow [l/min]	Part No.
AS5	IO-Link, Ana-log	PNP, NPN, push-pull, 1x IO-Link	17-30 V DC	G 1	4326	R412026836

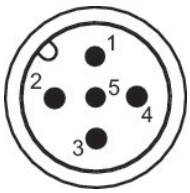
Dimensions in mm



* Flow direction

R412026836

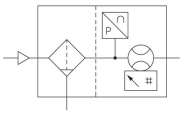
Pin assignments



Pin	Allocation	Wire color
1	L+ Supply Voltage	brown
2	QA (output 4 ... 20 mA)	white
3	m = mass	blue
4	C/Q1 (IO-Link/switch output)	black
5	Analog output 4 ... 20 mA	yellow

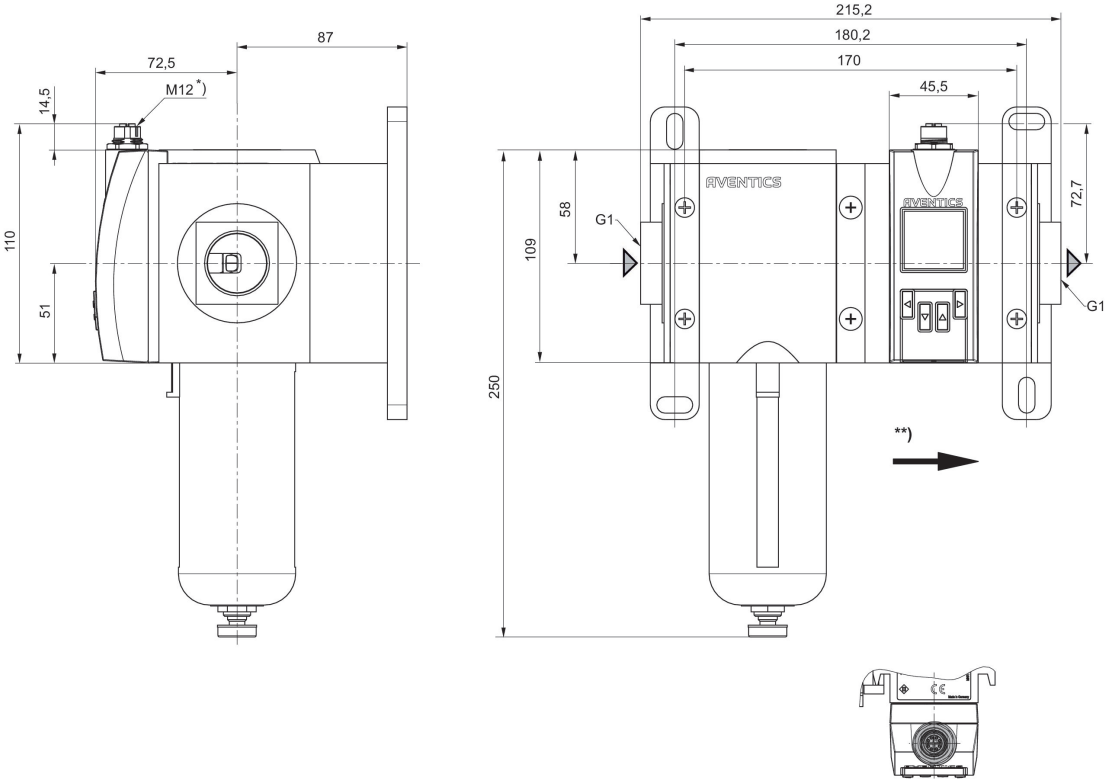
AF2 series flow rate sensor, Ethernet, with mounting

Electrical connection 2, thread size: M12x1
Frame size: AS5
Certificates: CE declaration of conformity, RoHS, UL (Underwriters Laboratories)
Electrical connection 2, number of poles: 8-pin
Ambient temperature min./max.: -20 °C ... 60 °C
Medium temperature min./max.: -20 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar



Frame size	Protocol	Output signal	Operational voltage	Port	Flow [l/min]	Part No.
AS5	Ethernet, TCP/IP, OPC UA, MQTT	OPC UA, MQTT, Integrated web server	24 V DC	G 1	4326	R412026839

Dimensions in mm

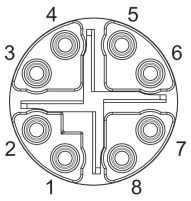


* Internal thread
** Flow direction

R412026839

Pin assignments

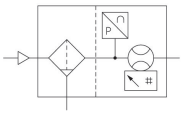
M12



Pin	RJ45	Wire color	Identification	10/100 Mbit
1	1	WH / OG	TX(+) + POE	TxData+
2	2	OG	TX(-) + POE	TxData+
3	3	WH / GN	RX(+) - POE	TxData-
4	6	GN	RX(-) - POE	TxData-
7	5	WH / BU	POE+	
8	4	BU	POE+	
5	7	WH / BN	POE-	
6	8	BN	POE-	

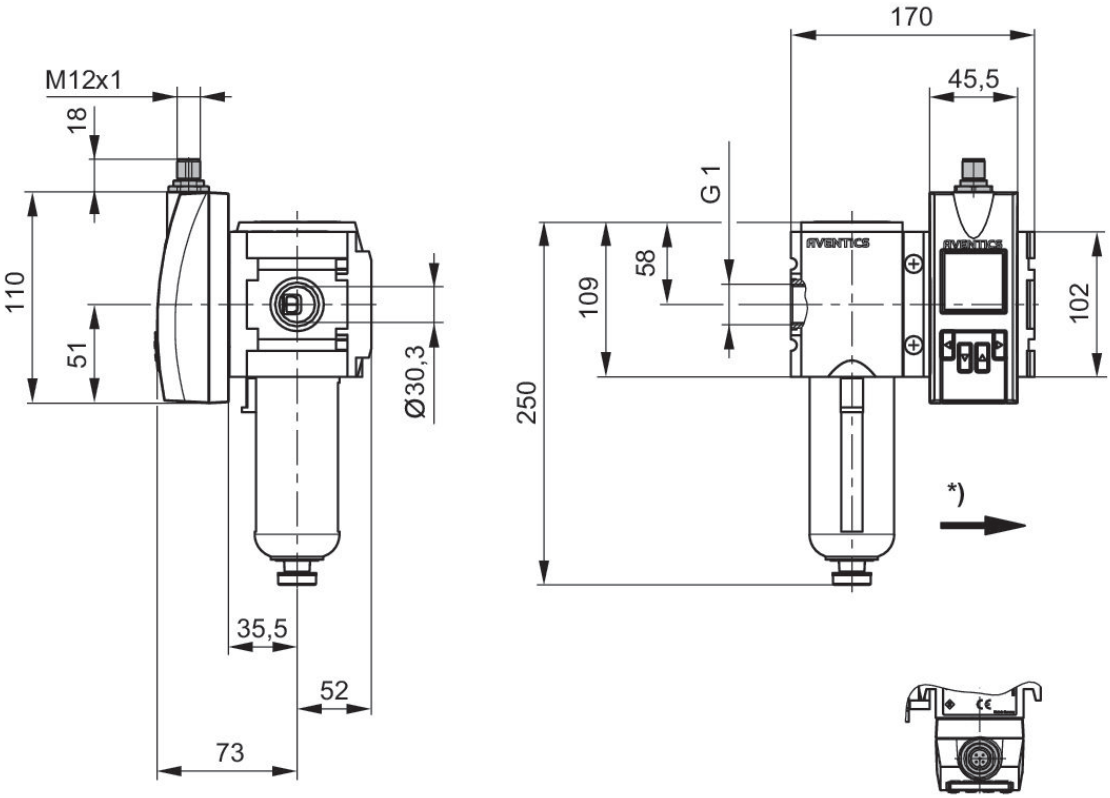
Series AF2 flow rate sensor, IO-Link, without mounting

Electrical connection 2, thread size: M12x1
Frame size: AS5
Certificates: CE declaration of conformity, RoHS, UL (Underwriters Laboratories)
Electrical connection 2, number of poles: 5-pin
Ambient temperature min./max.: -20 °C ... 60 °C
Medium temperature min./max.: -20 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar



Frame size	Protocol	Output signal	Operational voltage	Port	Flow [l/min]	Part No.
AS5	IO-Link, Ana-log	PNP, NPN, push-pull, 1x IO-Link	17-30 V DC	G 1	4326	R412027178

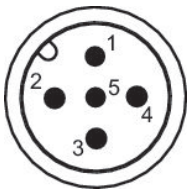
Dimensions in mm



* Flow direction

R412027178

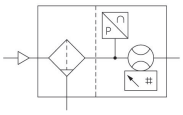
Pin assignments



Pin	Allocation	Wire color
1	L+ Supply Voltage	brown
2	QA (output 4 ... 20 mA)	white
3	m = mass	blue
4	C/Q1 (IO-Link/switch output)	black
5	Analog output 4 ... 20 mA	yellow

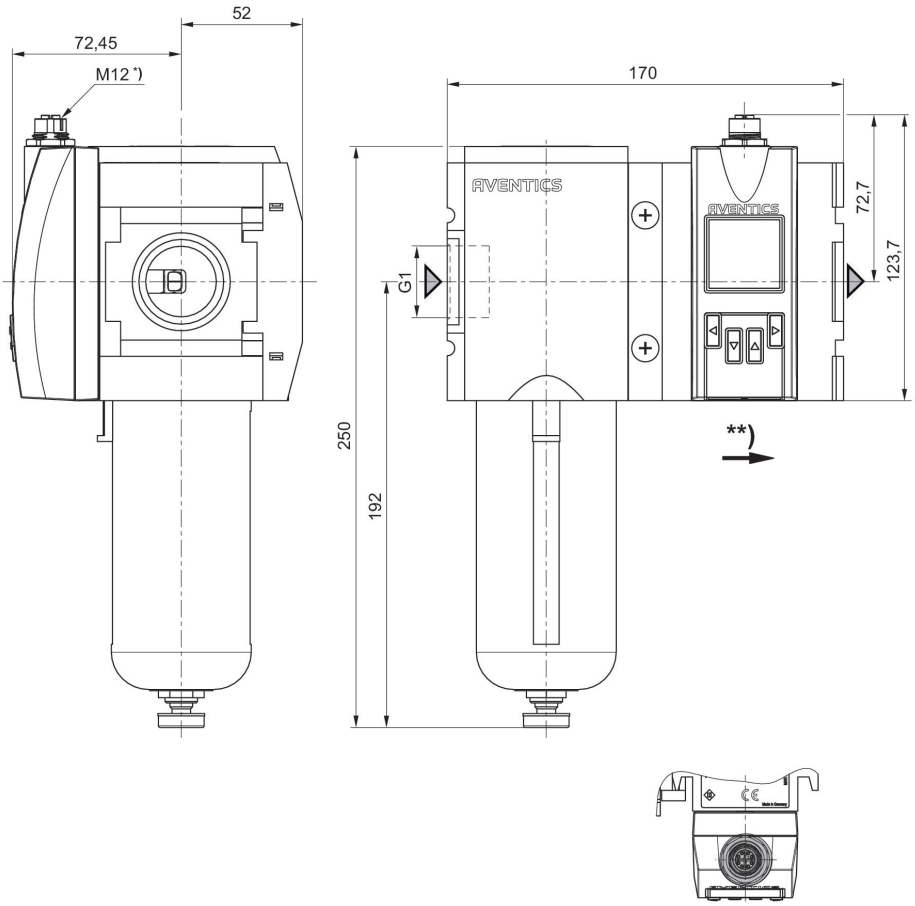
AF2 series flow rate sensor, Ethernet, without mounting

Electrical connection 2, thread size: M12x1
Frame size: AS5
Certificates: CE declaration of conformity, RoHS, UL (Underwriters Laboratories)
Electrical connection 2, number of poles: 8-pin
Ambient temperature min./max.: -20 °C ... 60 °C
Medium temperature min./max.: -20 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar



Frame size	Protocol	Output signal	Operational voltage	Port	Flow [l/min]	Part No.
AS5	Ethernet, TCP/IP, OPC UA, MQTT	OPC UA, MQTT, Integrated web server	24 V DC	G 1	4326	R412027181

Dimensions in mm

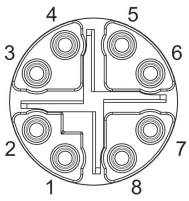


* Internal thread
** Flow direction

R412027181

Pin assignments

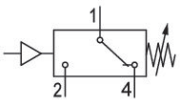
M12



Pin	RJ45	Wire color	Identification	10/100 Mbit
1	1	WH / OG	TX(+) + POE	TxData+
2	2	OG	TX(-) + POE	TxData+
3	3	WH / GN	RX(+) - POE	TxData-
4	6	GN	RX(-) - POE	TxData-
7	5	WH / BU	POE+	
8	4	BU	POE+	
5	7	WH / BN	POE-	
6	8	BN	POE-	

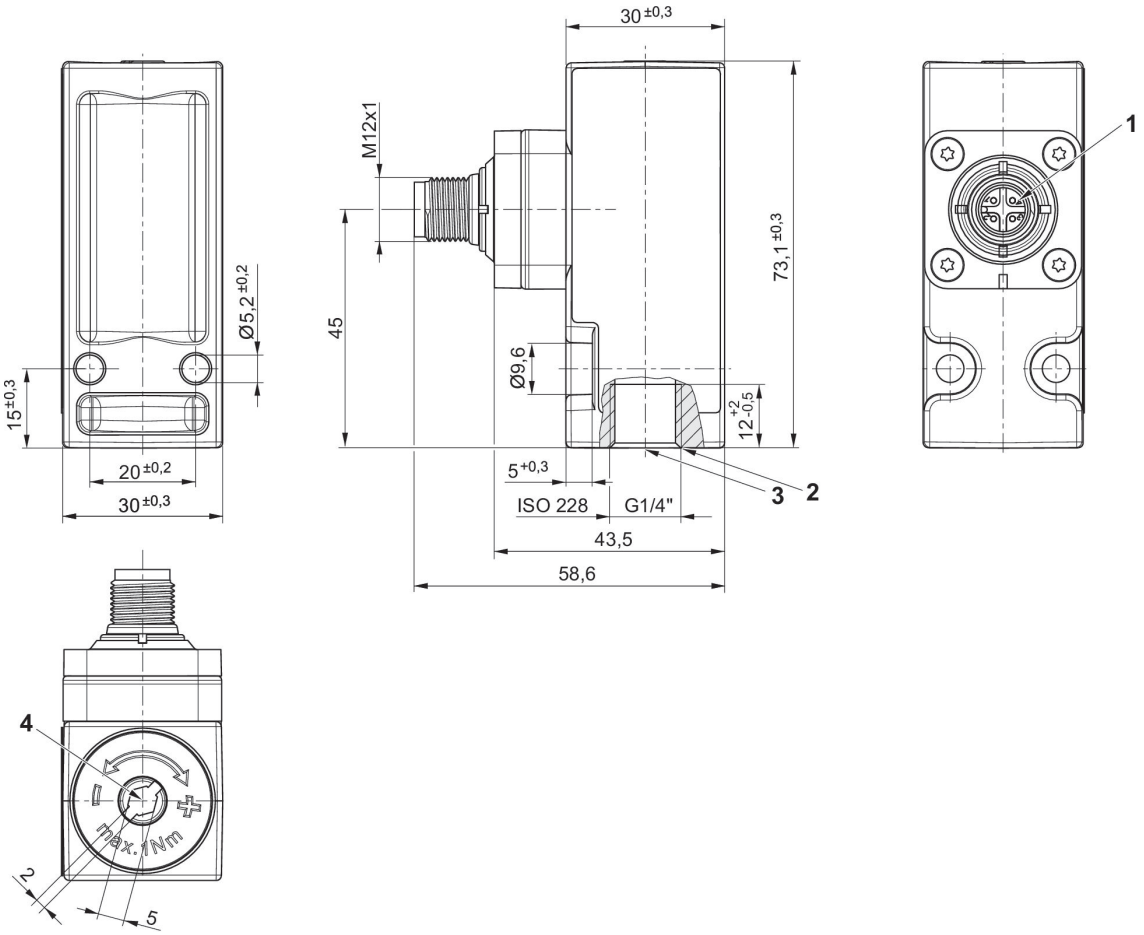
Pressure Switches, Series PM1, M12, -0,9 - 0 bar

Mounting orientation: Any
Electrical connection 2, thread size: M12x1
Compressed air connection type: Internal thread
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
G 1/4	-0.9	0	80 bar	max. switching pressure difference	Any	R412010716

Dimensions in mm



1) M12 connection rotatable by 90° and 30° with detent
2) sealing surface
3) Mounting screw
4) Adjustment screw, self-holding

Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

Max. permissible continuous current I max. [A] with ohmic load

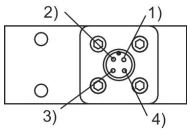
U [V]	I [A] 1)	I [A] 2)
30	4	3

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

R412010716

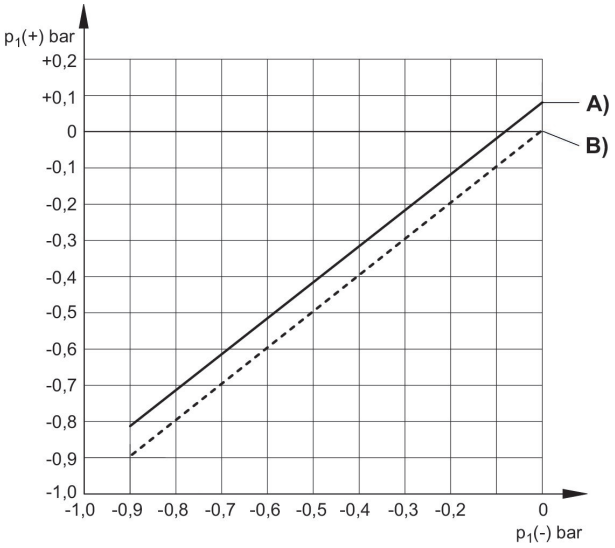
Pin assignments

M12x1



Pin	Allocation
1	+UB
2	break contact
3	No function
4	NO (make contact)

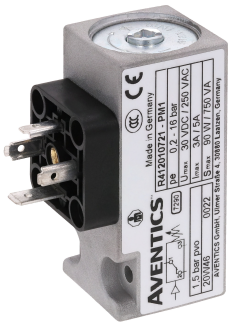
Differential switching pressure characteristic curve (-0,9 – 0 bar)

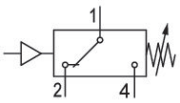


A) p1 (-), min.
B) p1 (-), max.
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure

Pressure Switches, Series PM1, M12, 0,2 - 16 bar

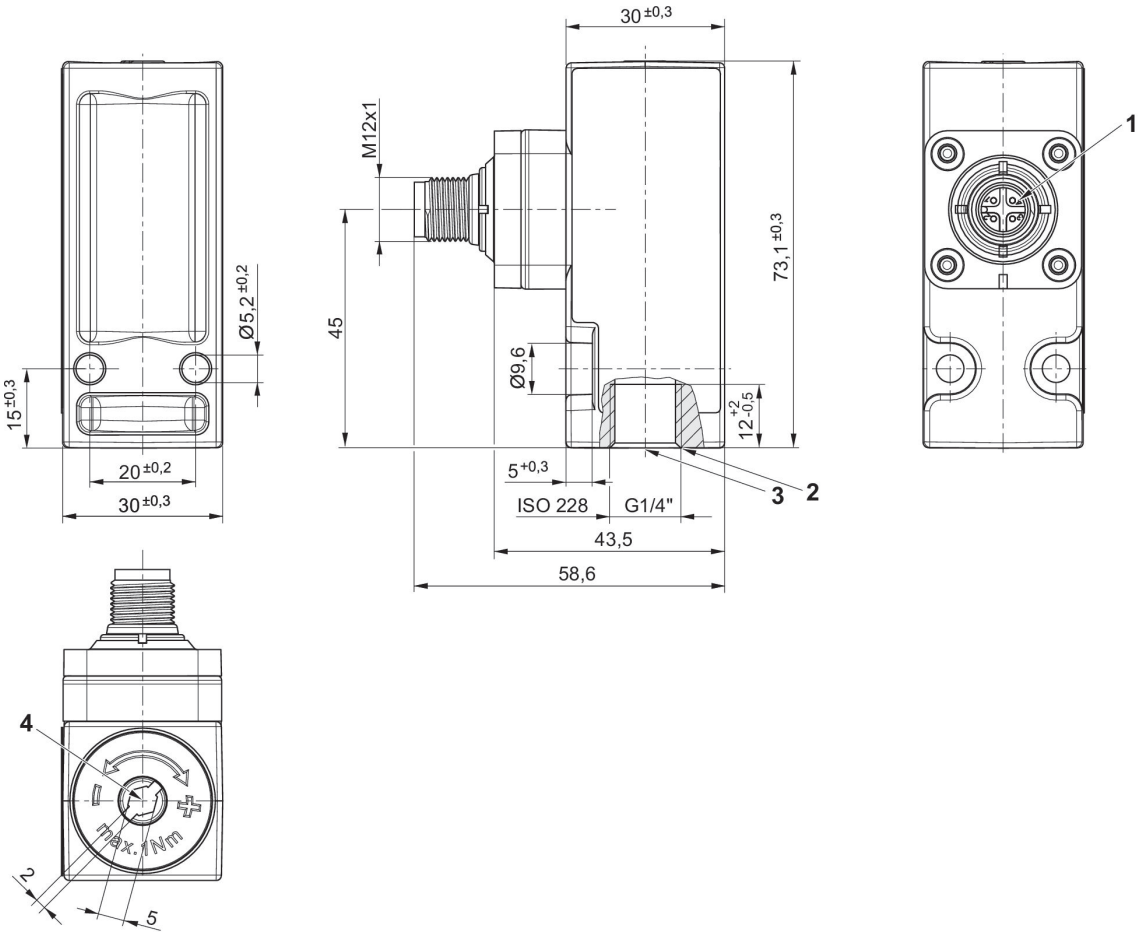
Mounting orientation: Any
Electrical connection 2, thread size: M12x1
Compressed air connection type: Internal thread
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C





Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
G 1/4	0.2	16	80 bar	max. switching pressure difference	Any	R412010717

Dimensions in mm



1) M12 connection rotatable by 90° and 30° with detent
2) sealing surface
3) Tightening torque MA = 12 + 1 Nm
4) adjustment screw

Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

Max. permissible continuous current I max. [A] with ohmic load

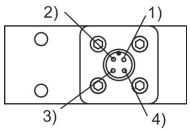
U [V]	I [A] 1)	I [A] 2)
30	4	3

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

R412010717

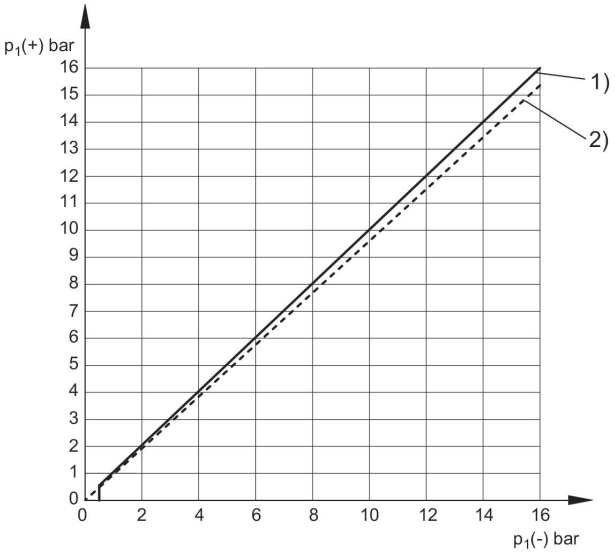
Pin assignments

M12x1



Pin	Allocation
1	+UB
2	break contact
3	No function
4	NO (make contact)

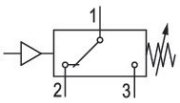
Differential switching pressure characteristic curve (0,2 - 16 bar)



p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

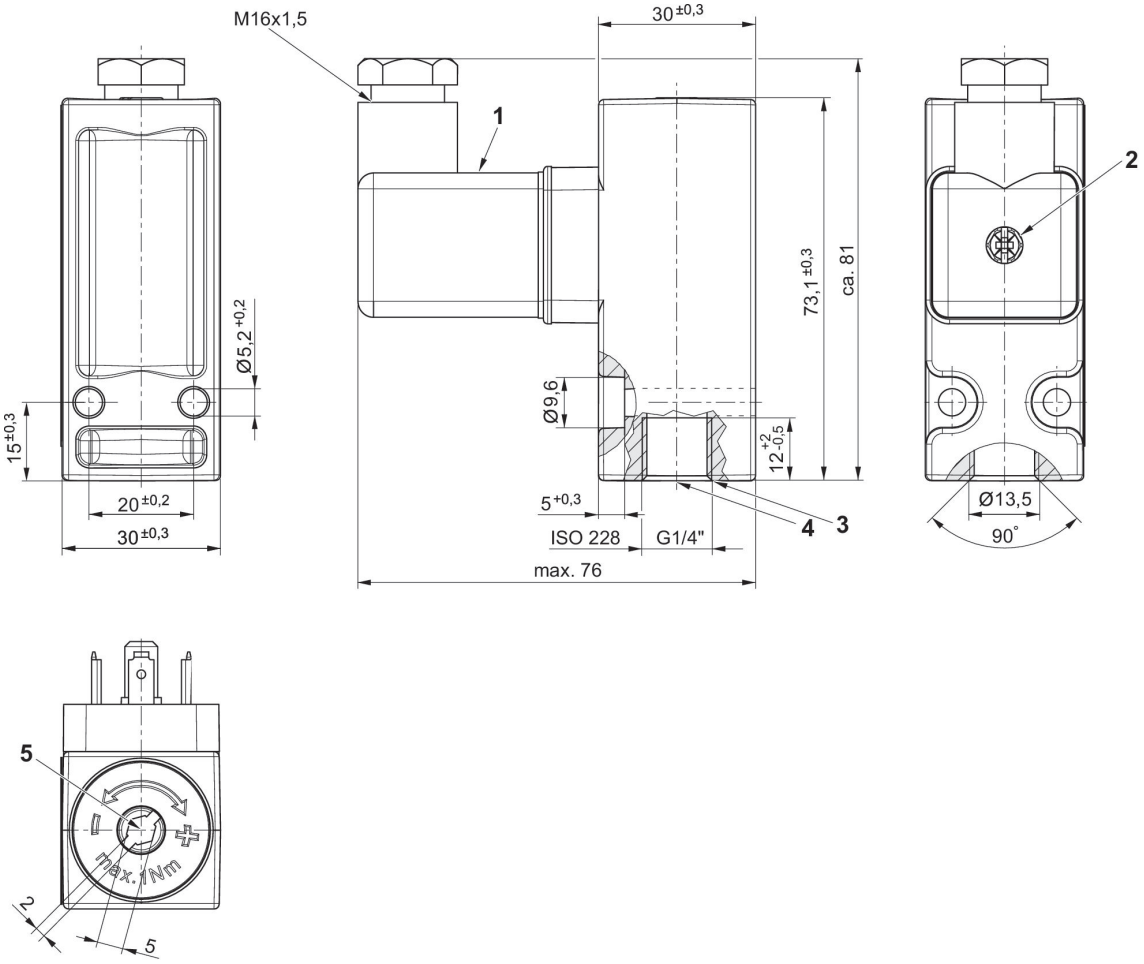
Pressure Switches, Series PM1, G1/4, form A, With valve plug connector

Mounting orientation: Any
Electrical connection 2, thread size: EN 175301-803, form A
Compressed air connection type: Internal thread
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
G 1/4	0.2	16	80 bar	max. switching pressure difference	Any	R412010713

Dimensions in mm



1) Valve plug connector
2) Mounting screw
3) sealing surface
4) Tightening torque MA = 12 + 1 Nm
5) Adjustment screw, self-holding

Max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30-250	5	-
30 / 48 / 60 / 125	-	3 / 1,2 / 0,8 / 0,4

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

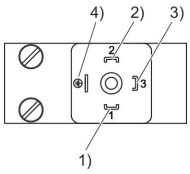
Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	3	-
30 / 48 / 60 / 125	-	2 / 0,55 / 0,4 / 0,05

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

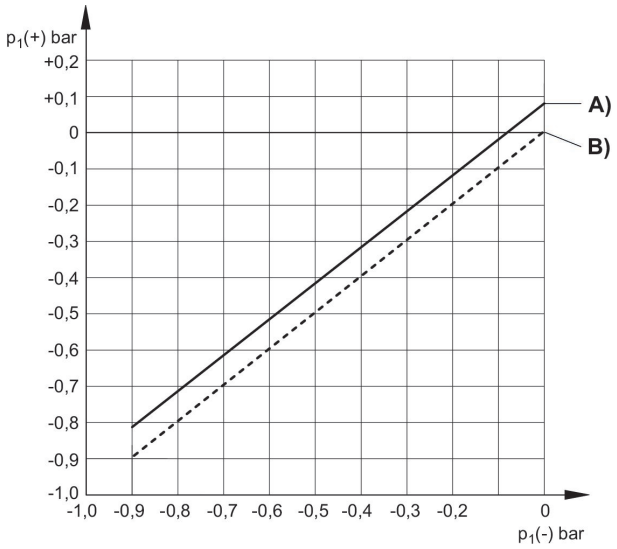
R412010713

PIN assignment for valve plug connectors



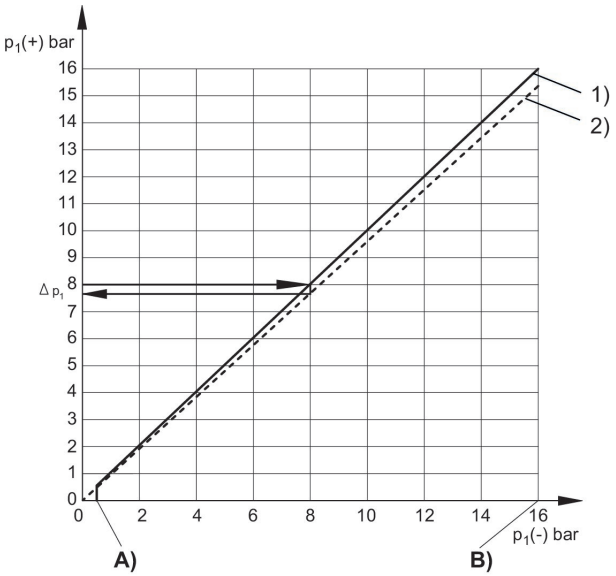
Pin	Allocation
1	+UB
2	break contact
3	NO (make contact)
4	GND

Differential switching pressure characteristic curve (-0,9 – 0 bar)



A) p1 (-), min.
B) p1 (-), max.
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure

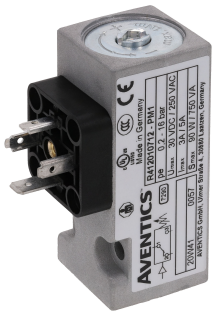
Differential switching pressure characteristic curve (0,2 - 16 bar)

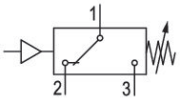


A) p1 (-), min.
B) p1 (-), max.
1) Rising
2) Falling
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
Δ p1 = max. operating pressure difference or hysteresis Example: p1 (+) = 8 bar > p1(-) = 7.6 bar Δ p1 = 0.4 bar

Pressure Switches, Series PM1, G1/4, form A, without valve plug connector

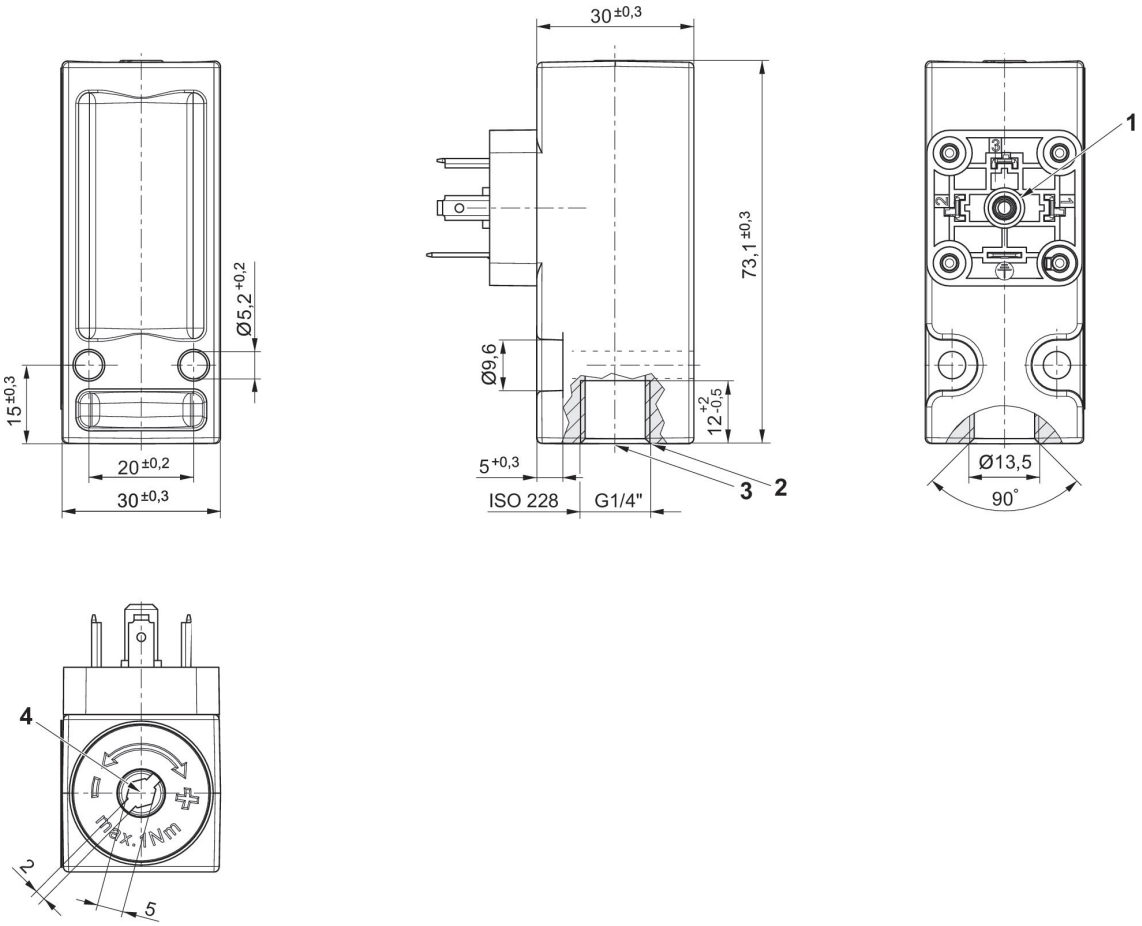
Mounting orientation: Any
Electrical connection 2, thread size: EN 175301-803, form A
Compressed air connection type: Internal thread
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C





Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
G 1/4	0.2	16	80 bar	max. switching pressure difference	Any	R412010712

Dimensions in mm



1) Mounting screw
2) sealing surface
3) Tightening torque MA = 12 + 1 Nm
4) adjustment screw

Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	3	-
30 / 48 / 60 / 125	-	2 / 0,55 / 0,4 / 0,05

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

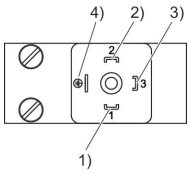
Max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30-250	5	-
30 / 48 / 60 / 125	-	3 / 1,2 / 0,8 / 0,4

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

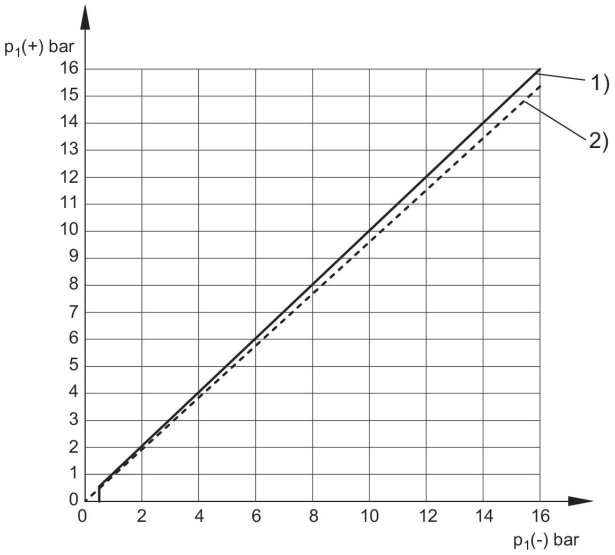
R412010712

PIN assignment for valve plug connectors



Pin	Allocation
1	+UB
2	break contact
3	NO (make contact)
4	GND

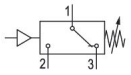
Differential switching pressure characteristic curve (0,2 - 16 bar)



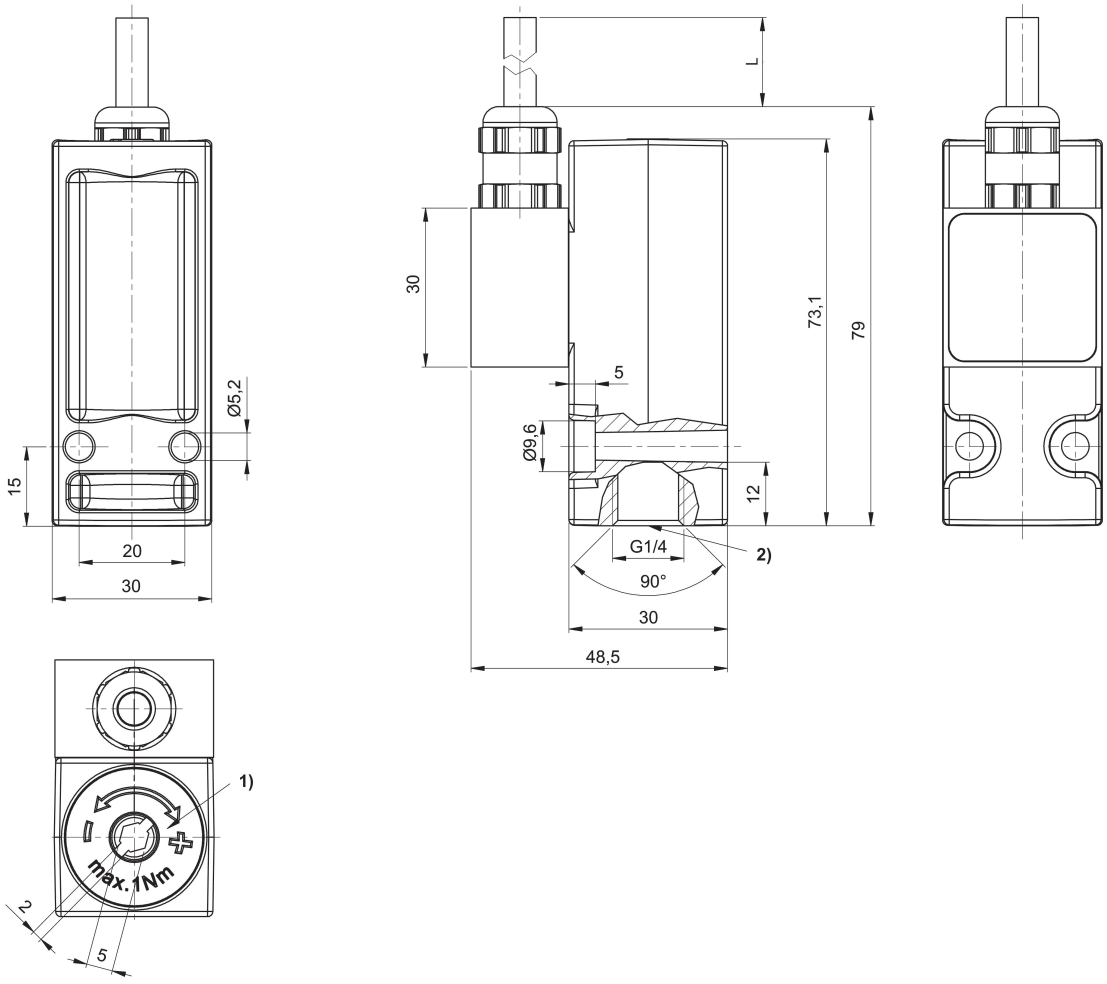
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

Pressure Switches, Series PM1, M12, ATEX

Mounting orientation: Any
Compressed air connection type: Internal thread
Certificates: ATEX
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C

	Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Mounting orientation	Cable length L [m]	Part No.
	G 1/4	-0.9	1	60 bar	Any	3	R412010730

Dimensions in mm



1) Adjustment screw, self-holding
2) Tightening torque MA = 12 + 1 Nm

Max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30-250	3	-
30 / 48 / 60 / 125	-	3 / 1,2 / 0,8 / 0,4

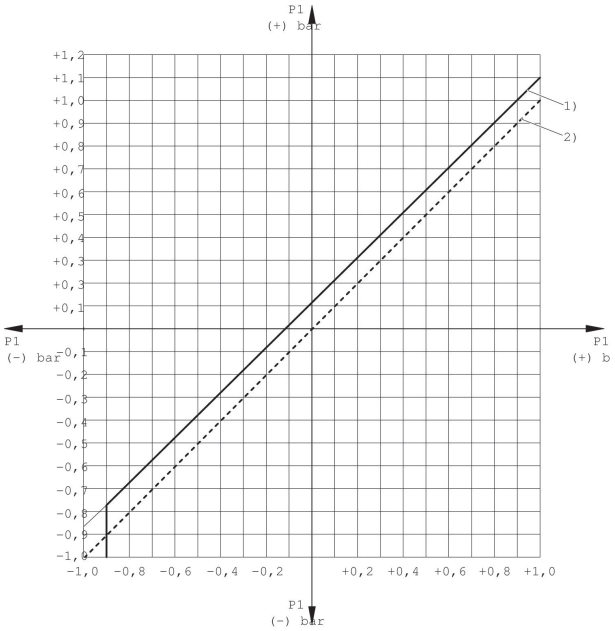
reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	3	-
30 / 48 / 60 / 125	-	2 / 0,55 / 0,4 / 0,05

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

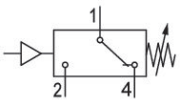
Differential switching pressure characteristic curve (-0,9 – 1 bar)



1) Rising
2) Falling
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure

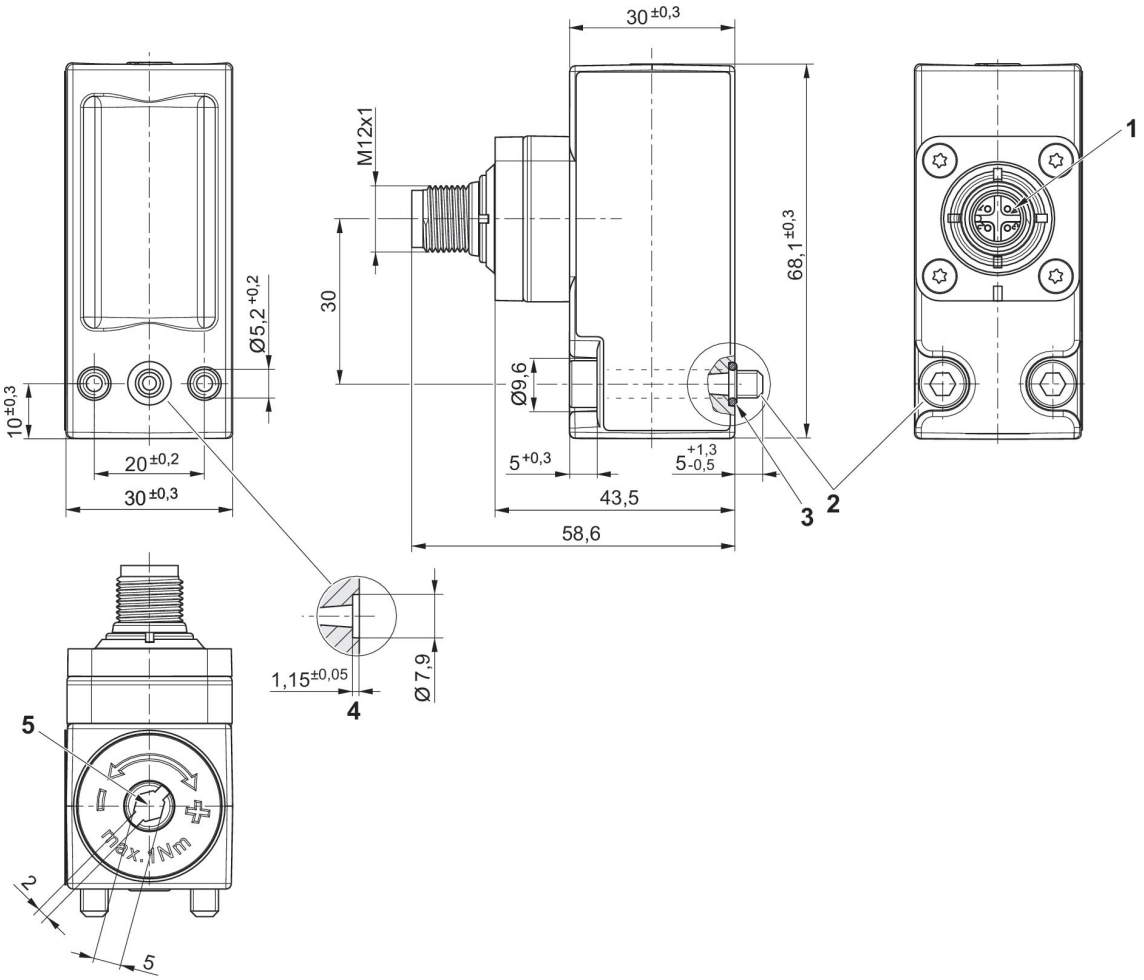
Pressure Switches, Series PM1, flange, M12, -0,9 - 0 bar

Mounting orientation: Any
Electrical connection 2, thread size: M12x1
Compressed air connection type: Flange with O-ring
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
Ø 5x1,5	-0.9	0	80 bar	max. switching pressure difference	Any	R412010719

Dimensions in mm



1) M12 connection rotatable by 90° and 30° with detent
2) cylinder screw M5x30 (included in scope of delivery)
3) O-ring Ø5x1,5 (included)
4) O-ring countersink
5) Adjustment screw, self-holding

Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

Max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30	4	3

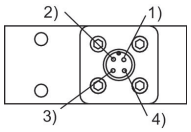
reference cycle: 30/min., reference temperature: +30 °C
1) AC

2) DC

R412010719

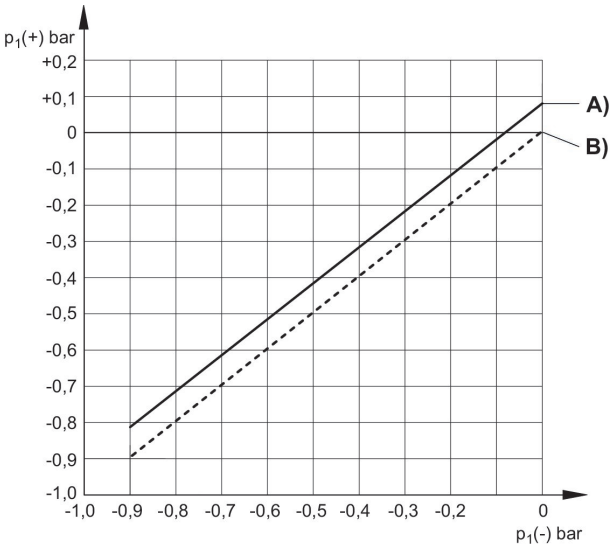
Pin assignments

M12x1



Pin	Allocation
1	+UB
2	break contact
3	No function
4	NO (make contact)

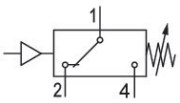
Differential switching pressure characteristic curve (-0,9 – 0 bar)



A) p1 (-), min.
B) p1 (-), max.
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure

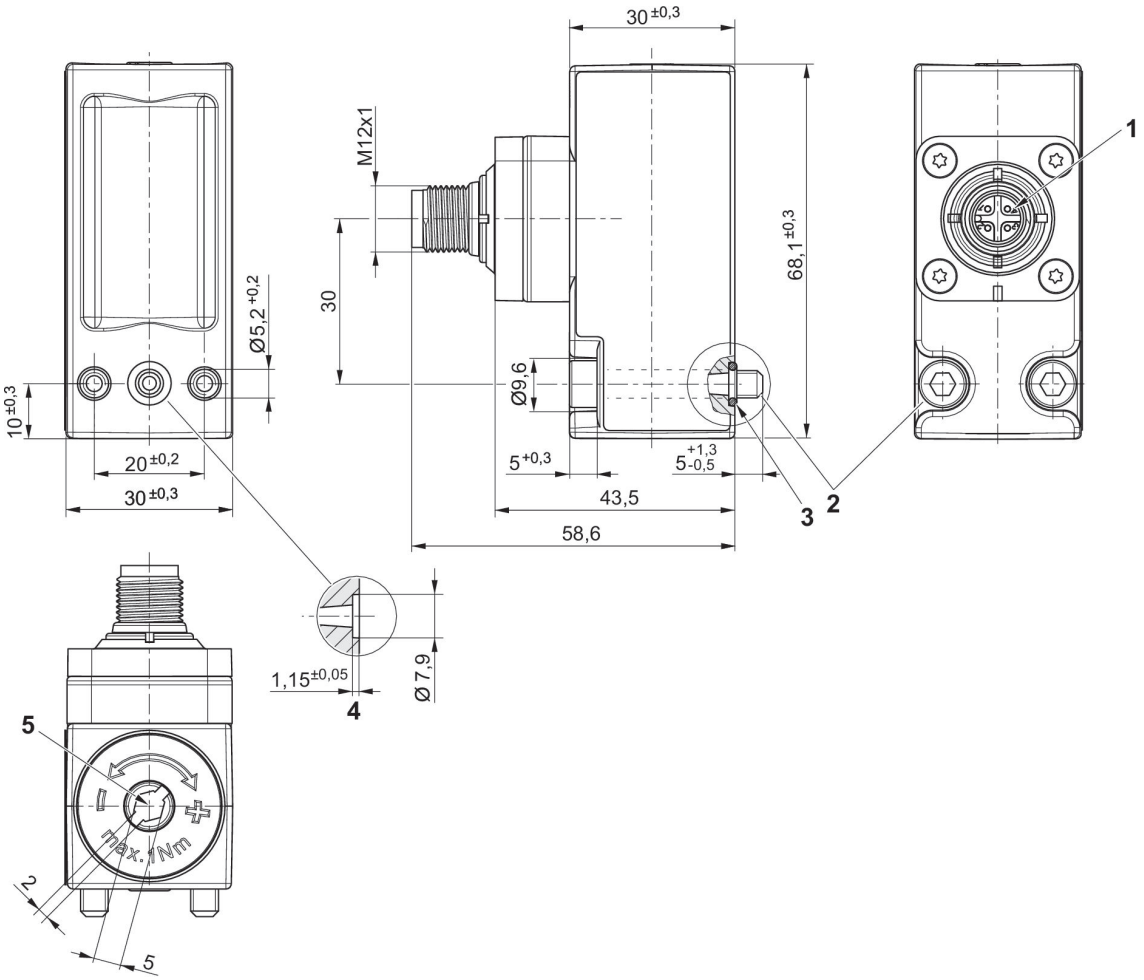
Pressure Switches, Series PM1, flange, M12, 0,2 - 16 bar

Mounting orientation: Any
Electrical connection 2, thread size: M12x1
Compressed air connection type: Flange with O-ring
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
Ø 5x1,5	0.2	16	80 bar	max. switching pressure difference	Any	R412010720

Dimensions in mm



1) M12 connection rotatable by 90° and 30° with detent
2) cylinder screw M5x30 (included in scope of delivery)
3) O-ring Ø5x1,5 (included)
4) O-ring countersink
5) adjustment screw

Max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30-250	5	-
30 / 48 / 60 / 125	-	3 / 1,2 / 0,8 / 0,4

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2

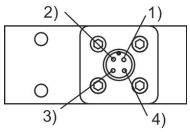
reference cycle: 30/min., reference temperature: +30 °C

1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

R412010720

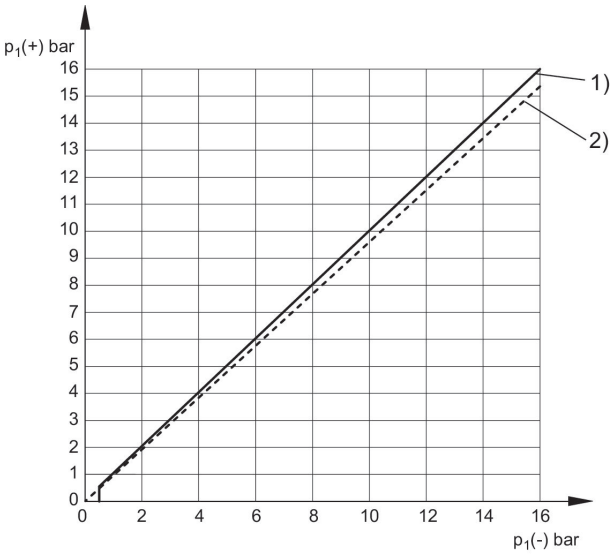
Pin assignments

M12x1



Pin	Allocation
1	+UB
2	break contact
3	No function
4	NO (make contact)

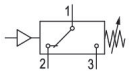
Differential switching pressure characteristic curve (0,2 - 16 bar)



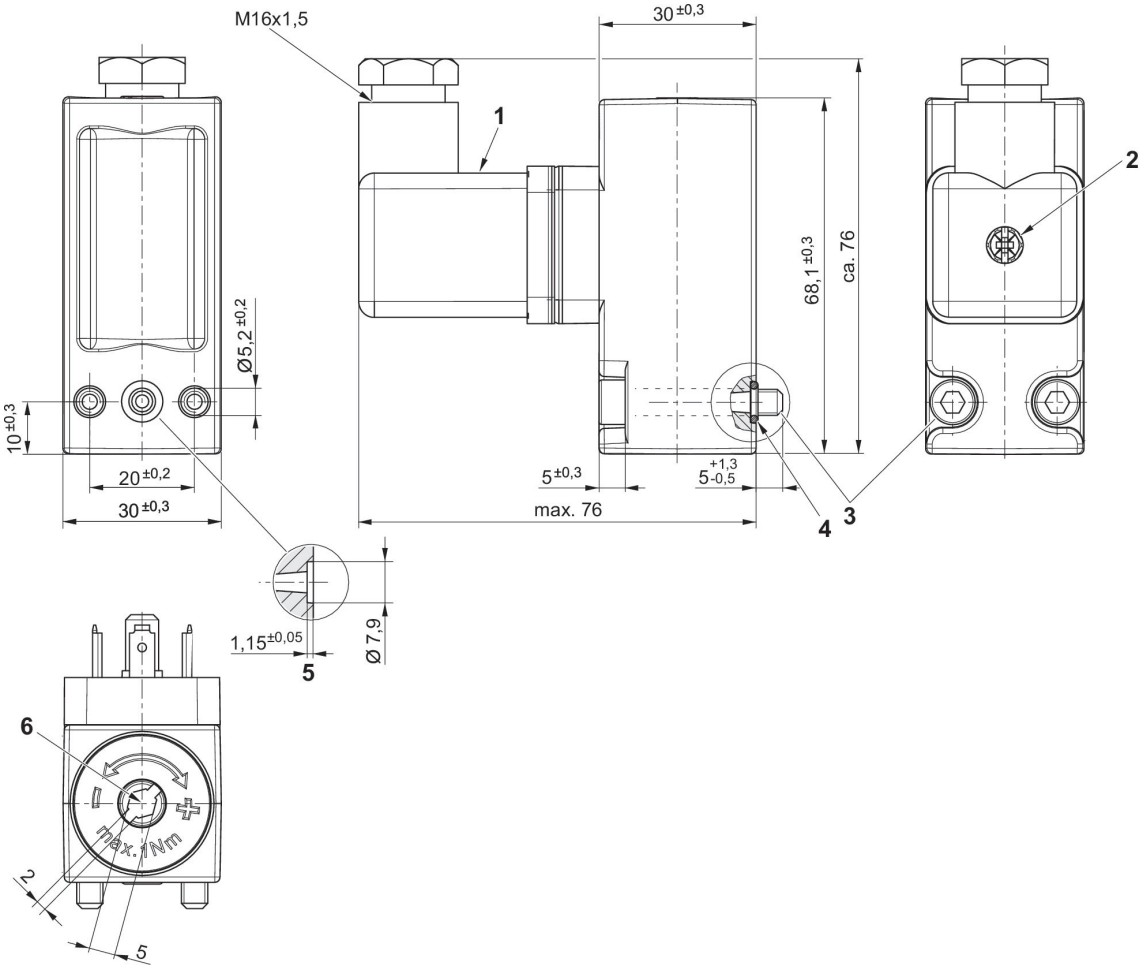
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

Pressure Switches, Series PM1, flange, form A, With valve plug connector

Mounting orientation: Any
Electrical connection 2, thread size: EN 175301-803, form A
Compressed air connection type: Flange with O-ring
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C

	Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
	Ø 5x1,5	0.2	16	80 bar	max. switching pressure difference	Any	R412010718

Dimensions in mm



1) Valve plug connector
2) Mounting screw
3) cylinder screw M5x30 (included in scope of delivery)
4) O-ring Ø5x1,5 (included)
5) O-ring countersink
6) Adjustment screw, self-holding

Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	3	-
30 / 48 / 60 / 125	-	2 / 0,55 / 0,4 / 0,05

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

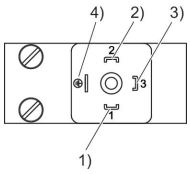
Max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30-250	5	-
30 / 48 / 60 / 125	-	3 / 1,2 / 0,8 / 0,4

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

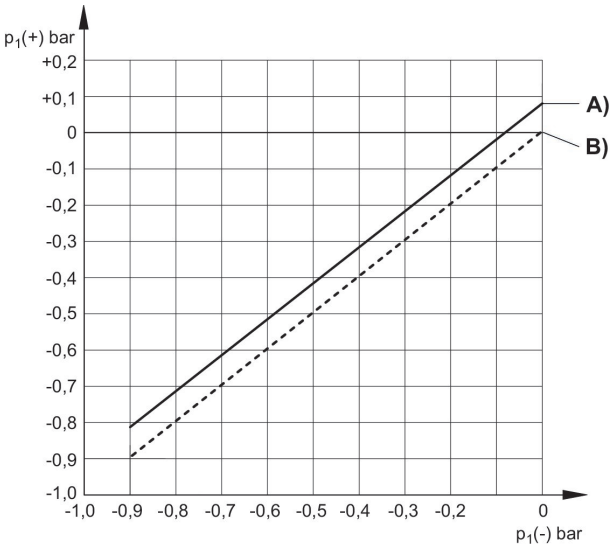
R412010718

PIN assignment for valve plug connectors



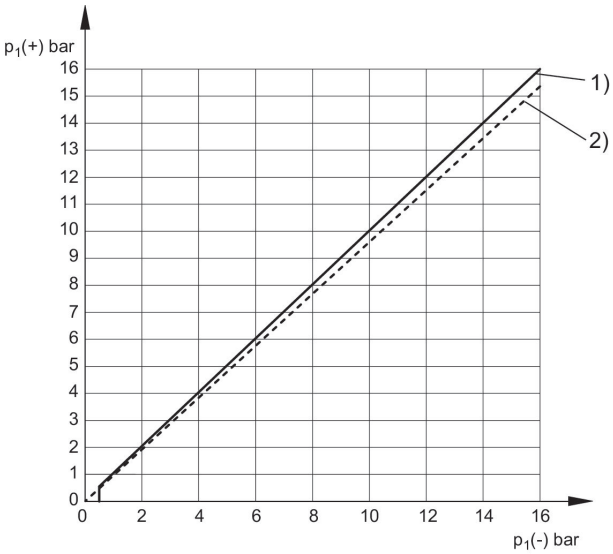
Pin	Allocation
1	+UB
2	break contact
3	NO (make contact)
4	GND

Differential switching pressure characteristic curve (-0,9 – 0 bar)



A) p1 (-), min.
B) p1 (-), max.
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure

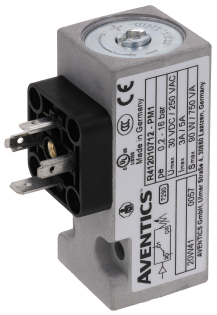
Differential switching pressure characteristic curve (0,2 - 16 bar)

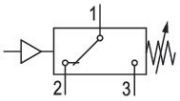


p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

Pressure Switches, Series PM1, flange, form A, without valve plug connector

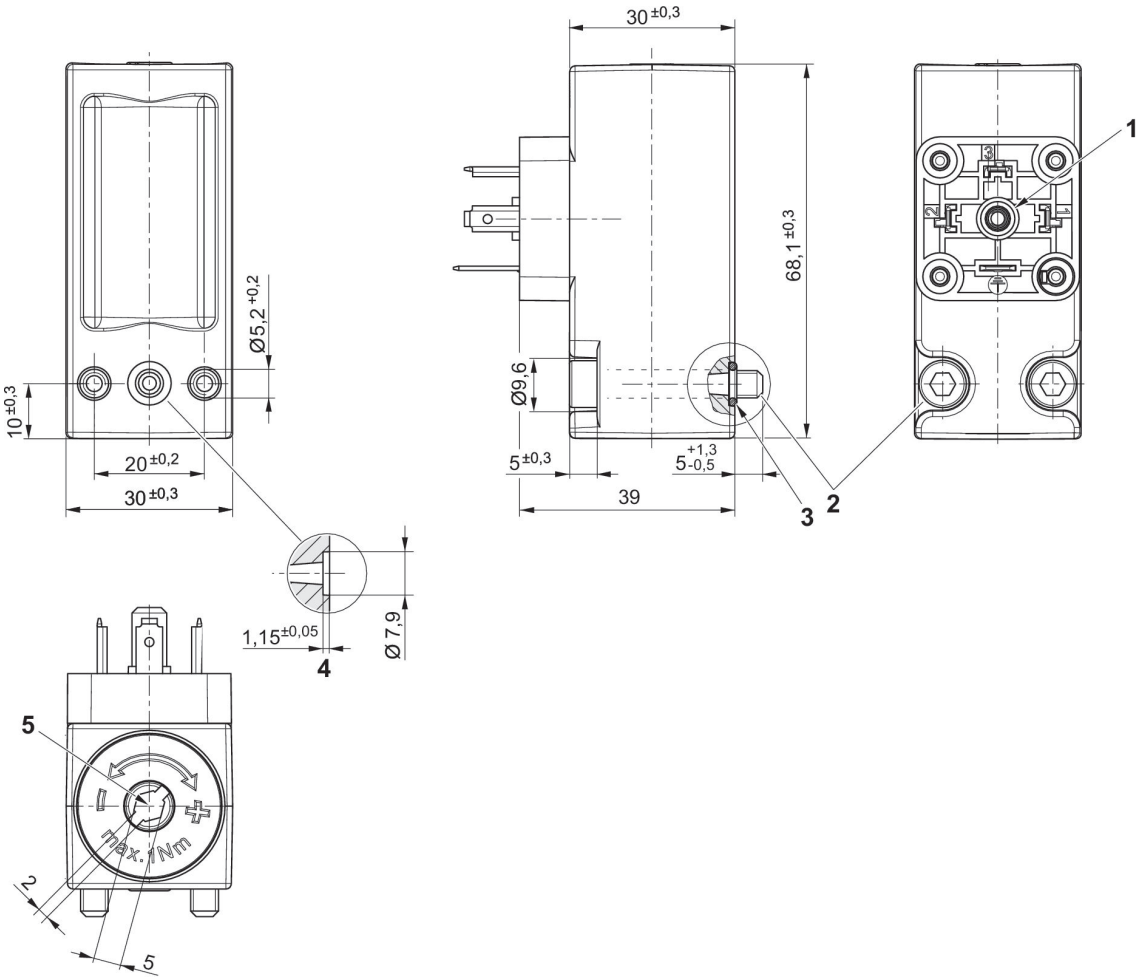
Mounting orientation: Any
Electrical connection 2, thread size: EN 175301-803, form A
Compressed air connection type: Flange with O-ring
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C





Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
Ø 5x1,5	0.2	16	80 bar	max. switching pressure difference	Any	R412010715

Dimensions in mm



1) Mounting screw
2) cylinder screw M5x30 (included in scope of delivery)
3) O-ring Ø5x1,5 (included)
4) O-ring countersink
5) Adjustment screw, self-holding

Max. permissible continuous current I max. [A] with ohmic load

U [V]	30-250	30 / 48 / 60 / 125
I [A] 1)	5	-
I [A] 2)	-	3 / 1,2 / 0,8 / 0,4

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

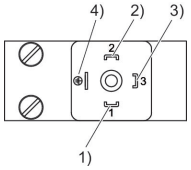
Max. permissible continuous current I max. [A] with inductive load

U [V]	30-250	30 / 48 / 60 / 125
I [A] 1) 3)	3	-
I [A] 2) 4)	-	2 / 0,55 / 0,4 / 0,15

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

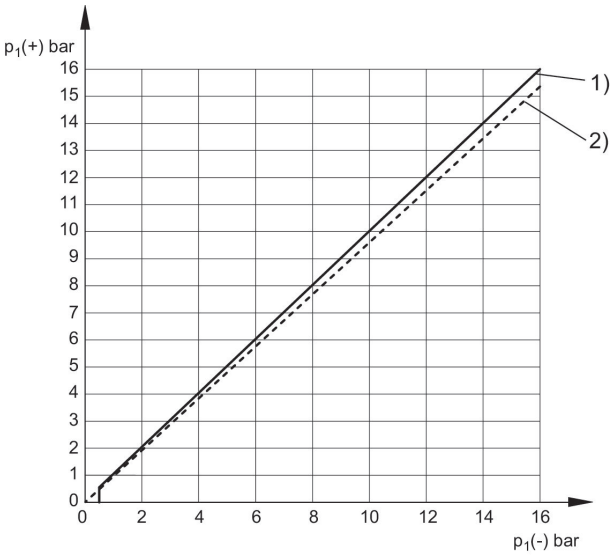
R412010715

PIN assignment for valve plug connectors



Pin	Allocation
1	+UB
2	break contact
3	NO (make contact)
4	GND

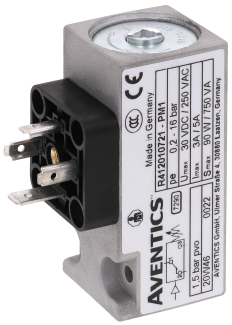
Differential switching pressure characteristic curve (0,2 - 16 bar)

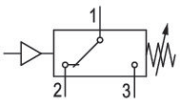


p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

Pressure Switches, Series PM1, CNOMO, form A, without valve plug connector

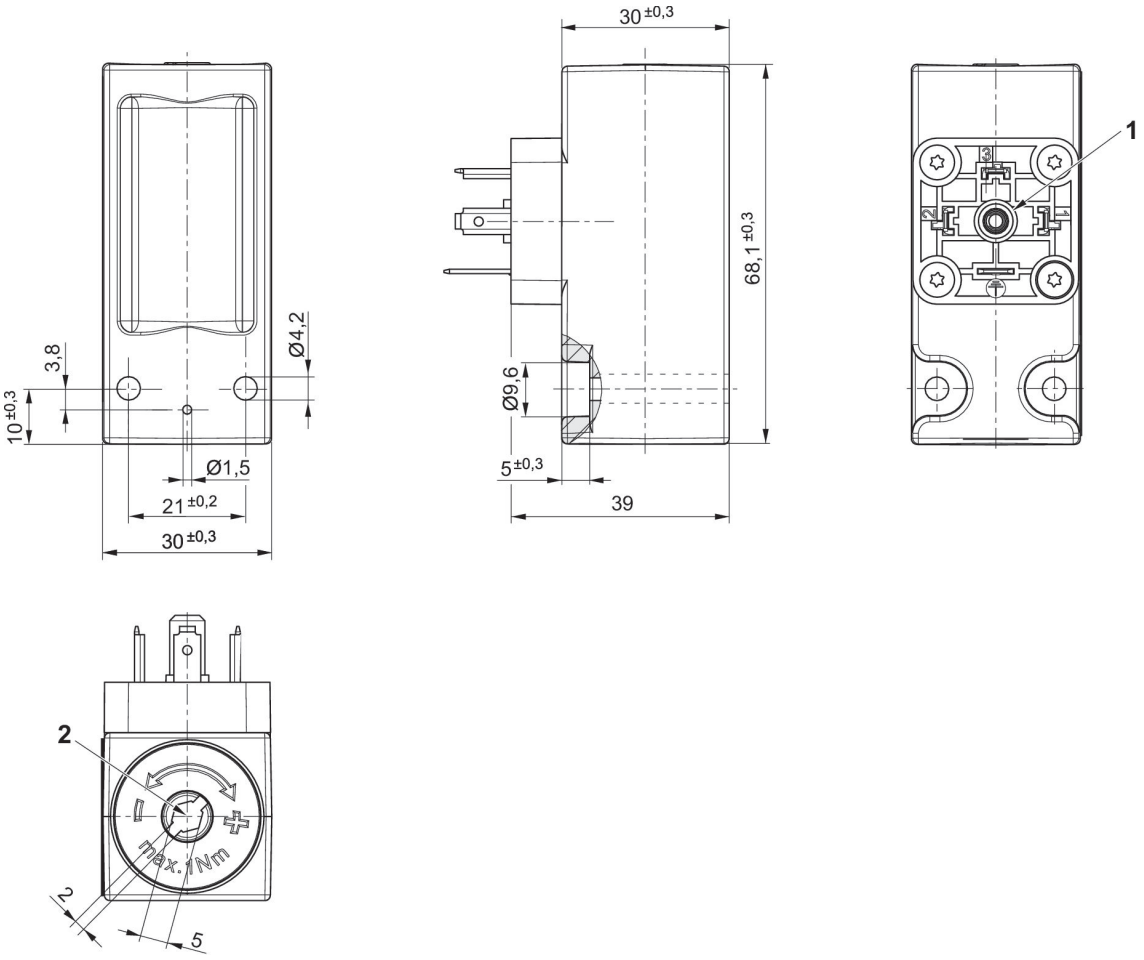
Mounting orientation: Any
Electrical connection 2, thread size: EN 175301-803, form A
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C





Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
CNOMO	0.2	16	80 bar	max. switching pressure difference	Any	R412010721

Dimensions in mm



1) Mounting screw
2) Adjustment screw, self-holding

Max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30-250	5	-
30 / 48 / 60 / 125	-	3 / 1,2 / 0,8 / 0,4

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

Max. permissible continuous current I max. [A] with inductive load

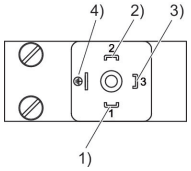
U [V]	30-250	30 / 48 / 60 / 125
I [A] 1) 3)	3	-
I [A] 2) 4)	-	2 / 0,55 / 0,4 / 0,15

reference cycle: 30/min., reference temperature: +30 °C
1) AC

2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

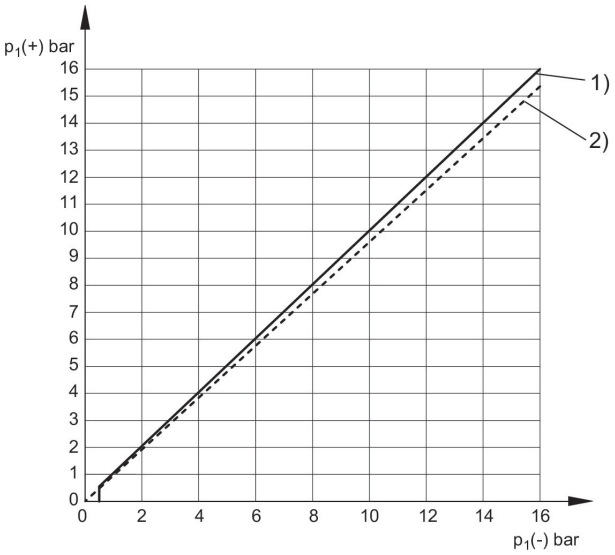
R412010721

PIN assignment for valve plug connectors



Pin	Allocation
1	+UB
2	break contact
3	NO (make contact)
4	GND

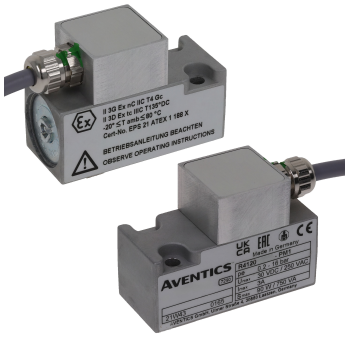
Differential switching pressure characteristic curve (0,2 - 16 bar)

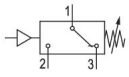


p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

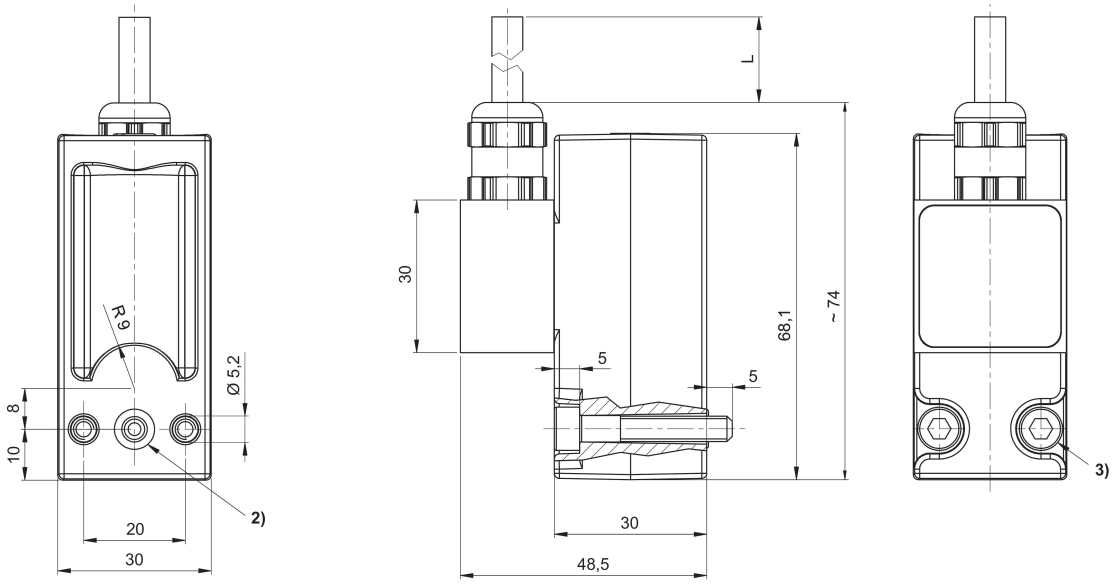
Pressure Switches, Series PM1, flange, M12, ATEX

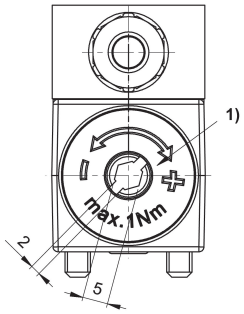
Mounting orientation: Any
Compressed air connection type: Flange with O-ring
Certificates: ATEX
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



	Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Mounting orientation	Cable length L [m]	Part No.
	Ø 5x1,5	-0.9	1	60 bar	Any	3	R412024760

Dimensions in mm





1) Adjustment screw, self-holding
2) O-ring Ø5x1,5 (included)
3) cylinder screw M5x30 (included in scope of delivery)

Max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30-250	3	-
30 / 48 / 60 / 125	-	3 / 1,2 / 0,8 / 0,4

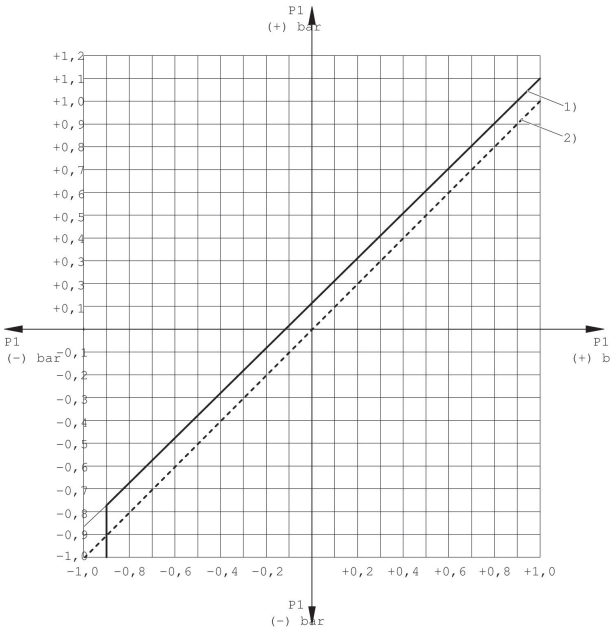
reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	3	-
30 / 48 / 60 / 125	-	2 / 0,55 / 0,4 / 0,05

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

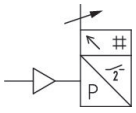
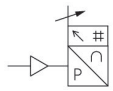
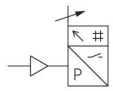
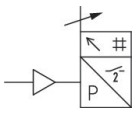
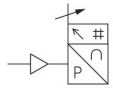
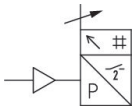
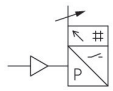
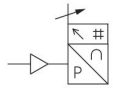
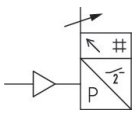
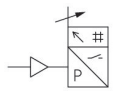
Differential switching pressure characteristic curve (-0,9 – 1 bar)

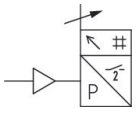
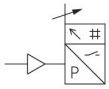


1) Rising
2) Falling
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure

Pressure sensor, Series PE5, push-in fitting

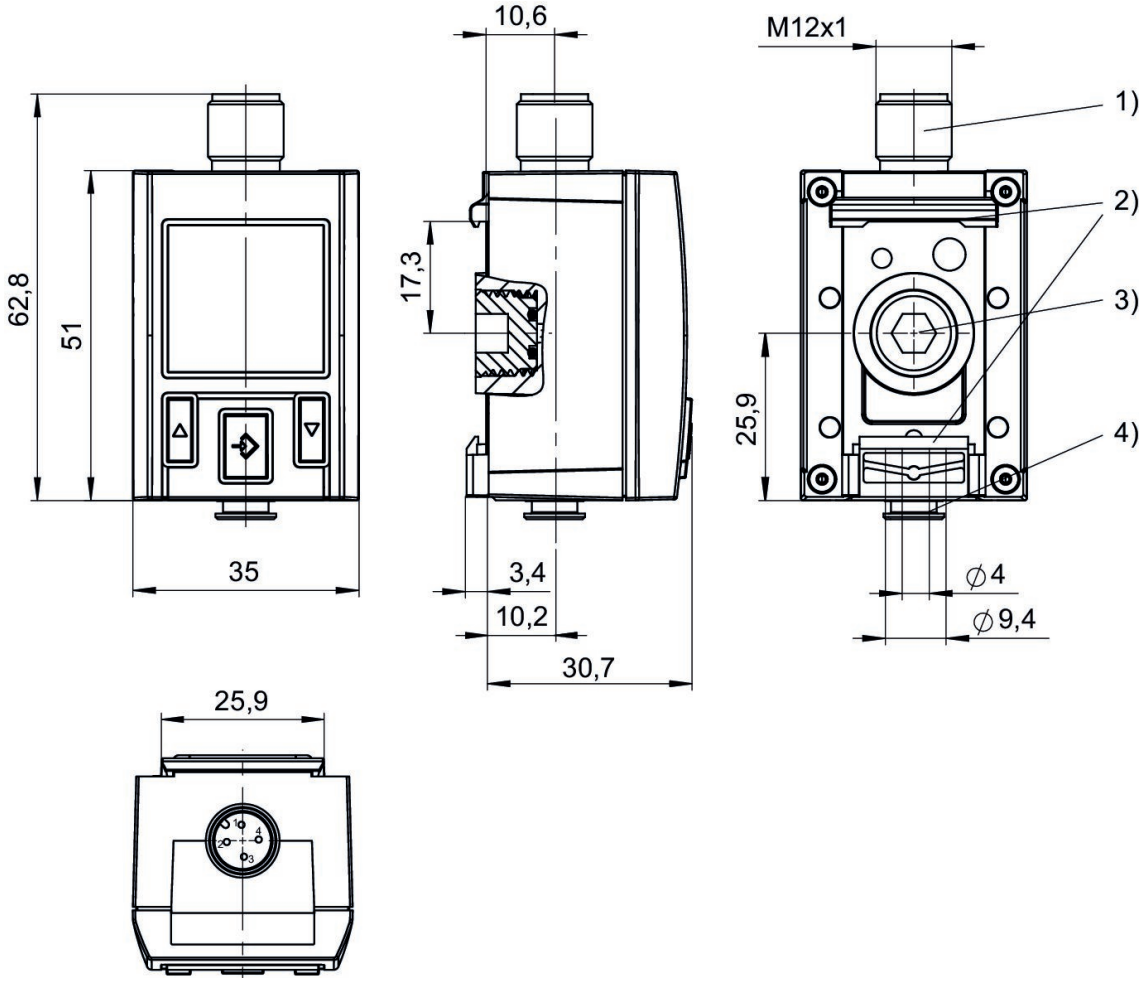
Electrical connection 2, thread size: M12x1
Certificates: CE declaration of conformity, cULus, RoHS, Conforms with REACH, Free of substances that impair surface wetting in the coating process
Electrical connection 2, number of poles: 4-pin
Ambient temperature min./max.: 0 °C ... 60 °C
Medium temperature min./max.: 0 °C ... 60 °C

	Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Min. operating voltage DC [V DC]	Max. operating voltage DC [V DC]	Protection against overpressure	Output signal digital	Part No.
	G 1/4	-1	0	17	30	5 bar	2 x PNP, NPN, Push-pull	R412010761
	G 1/4	-1	0	17	30	5 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 ... 20 mA	R412010769
	G 1/4	-1	0	17	30	5 bar	PNP, NPN, push-pull, 1x IO-Link	R412010775
	G 1/4	-1	1	17	30	5 bar	2 x PNP, NPN, Push-pull	R412010763
	G 1/4	0	6	17	30	15 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 ... 20 mA	R412010771
	G 1/4	0	6	17	30	15 bar	2 x PNP, NPN, Push-pull	R412010765
	G 1/4	0	6	17	30	15 bar	PNP, NPN, push-pull, 1x IO-Link	R412010777
	G 1/4	0	10	17	30	15 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 ... 20 mA	R412010773
	G 1/4	0	10	17	30	15 bar	2 x PNP, NPN, Push-pull	R412010767
	G 1/4	0	10	17	30	15 bar	PNP, NPN, push-pull, 1x IO-Link	R412010779

	Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Min. operating voltage DC [V DC]	Max. operating voltage DC [V DC]	Protection against overpressure	Output signal digital	Part No.
	G 1/4	0	12	17	30	16 bar	2 x PNP, NPN, Push-pull	R412010782
	G 1/4	0	12	17	30	16 bar	PNP, NPN, push-pull, 1x IO-Link	R412010806

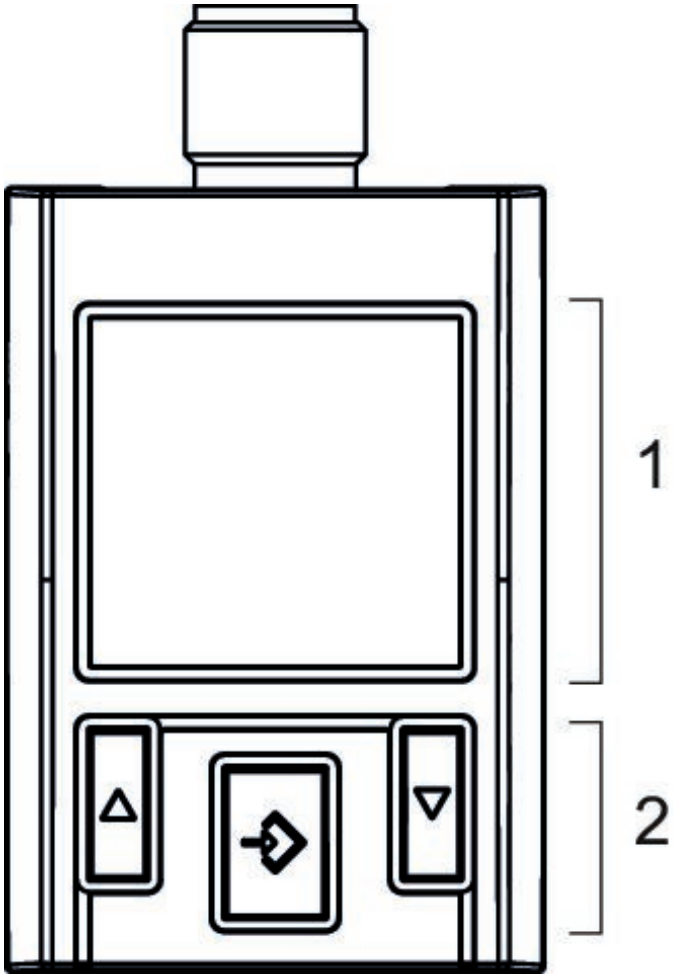
Hysteresis	Part No.
adjustable	R412010761
adjustable	R412010769
adjustable	R412010775
adjustable	R412010763
adjustable	R412010771
adjustable	R412010765
adjustable	R412010777
adjustable	R412010773
adjustable	R412010767
adjustable	R412010779
adjustable	R412010782
adjustable	R412010806

Dimensions



1) M12x1 electrical connection
2) Mounting for hat rail and wall mounting
3) Alternative pressure connection (G1/4) closed with plug
4) Pressure connection, tubing Ø 4 mm

Display and operation area

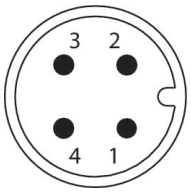


1) LCD display
2) Control panel with 3 buttons

R412010761, R412010769, R412010775, R412010763, R412010771, R412010765, R412010777, R412010773, R412010767, R412010779, R412010782, R412010806

Pin assignments

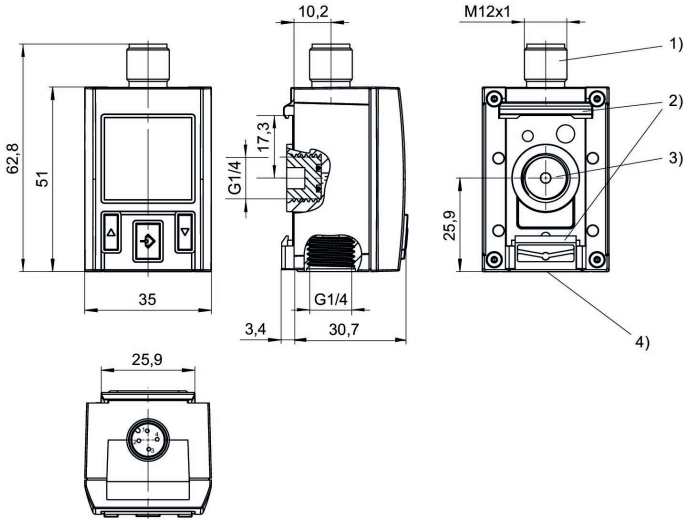
M12x1



Pin	Allocation
1	operational voltage + UB
2	switch output Out2, analog: A or V, digital: PNP, NPN, push-pull
3	0 V
4	switch output Out1, digital: PNP, NPN, push-pull

R412010761, R412010769, R412010775, R412010763, R412010771, R412010765, R412010777, R412010773, R412010767, R412010779, R412010782, R412010806

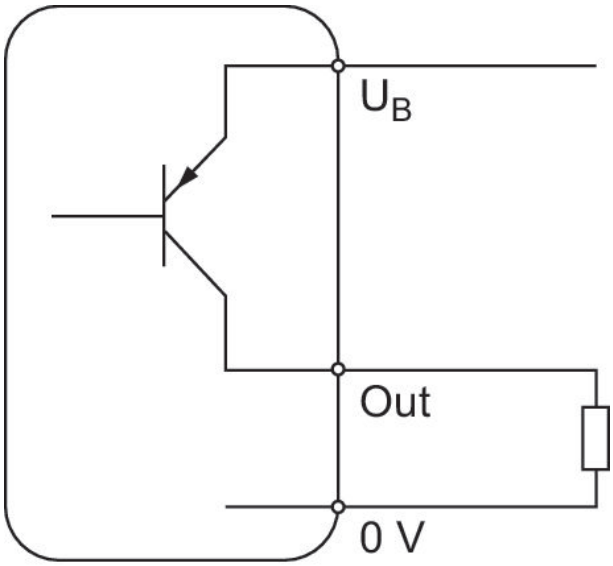
Dimensions



1) M12x1 electrical connection
2) Mounting for hat rail and wall mounting
3) Alternative pressure connection (G1/4) closed with plug
4) Pressure connection G1/4

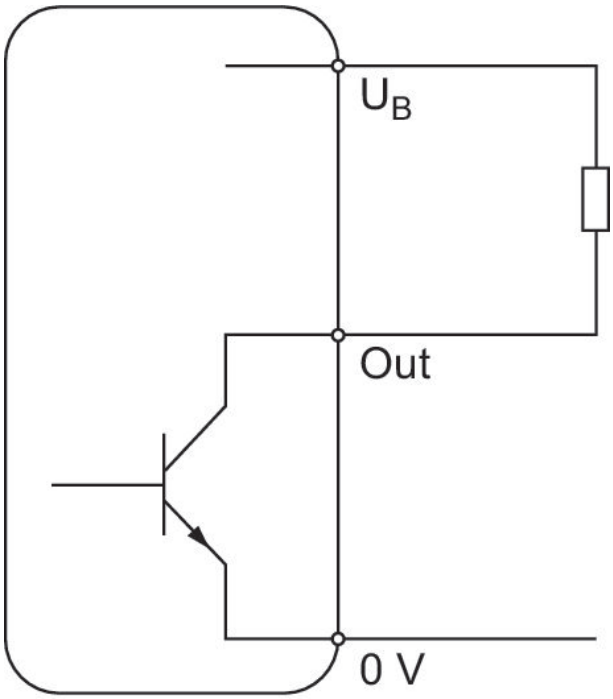
Operating mode

PNP



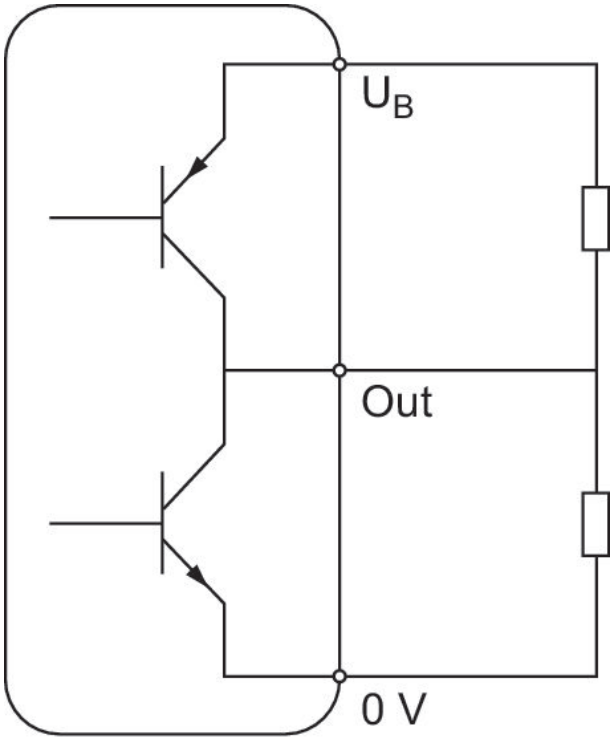
Operating mode

NPN



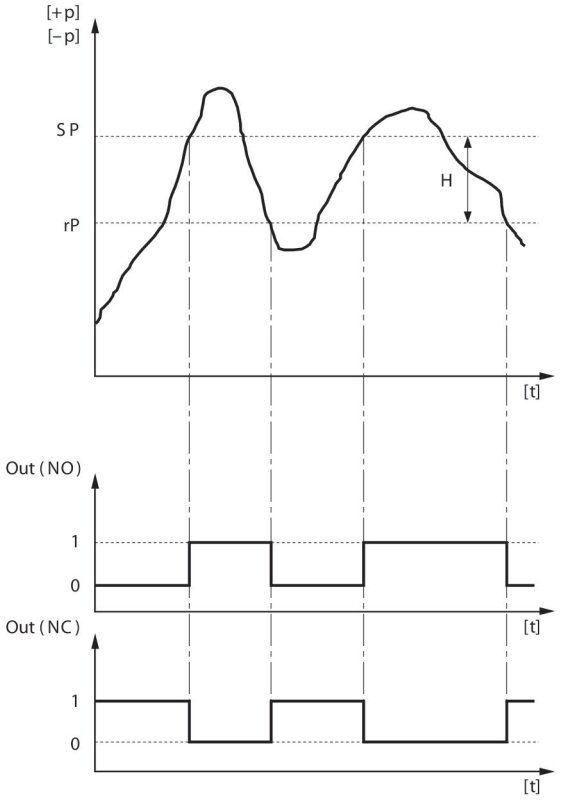
Operating mode

Push-pull



Hysteresis function: switching and resetting behavior dependent on pressure p and time t

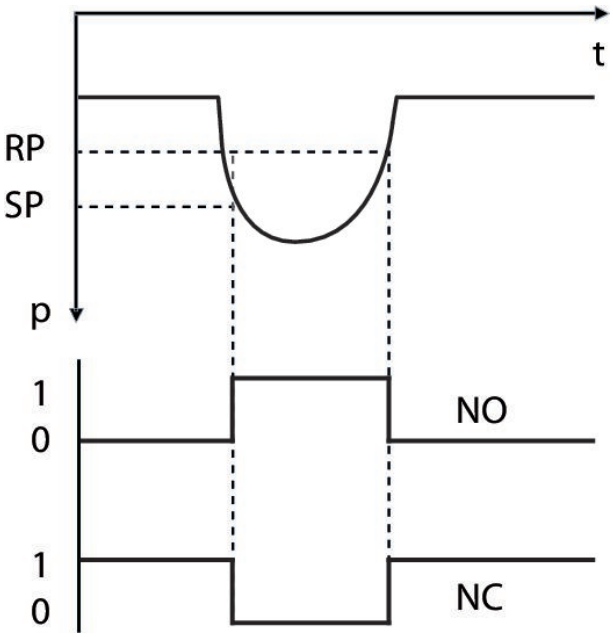
In case of overpressure



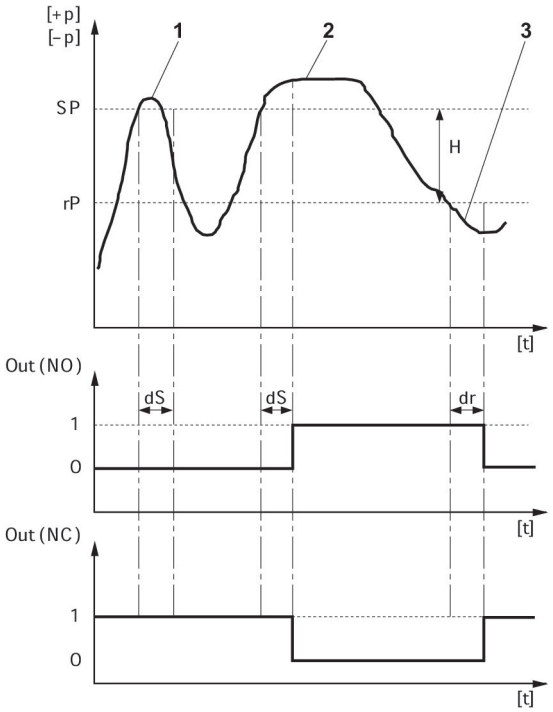
H: Hysteresis
SP = switching point RP = resetting point
Out (NC): switch output, break contact Out (NO): switch output, make contact

Hysteresis function: switching and resetting behavior dependent on pressure p and time t

In case of underpressure

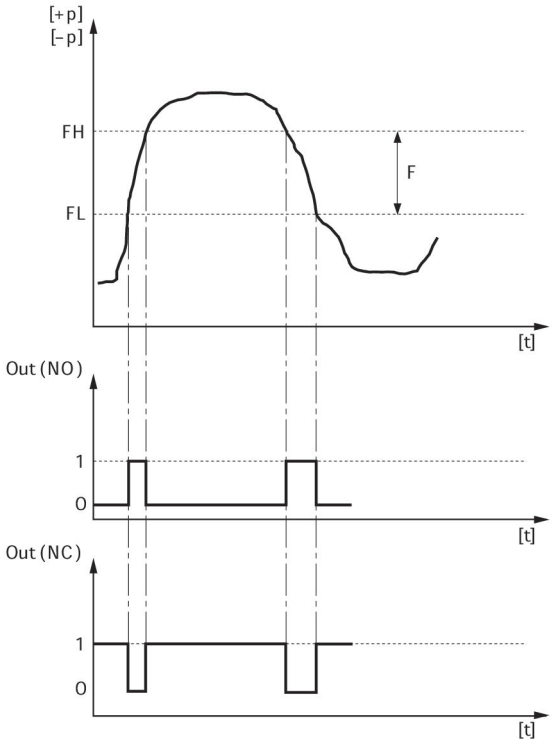


Delayed hysteresis function: switching and resetting behavior depending on pressure p and time t



H: Hysteresis
SP = switching point RP = resetting point
Out (NC): switch output, break contact Out (NO): switch output, make contact
dS: switching delay dR = reset delay
1) period of pressure over the switching point < dS: pressure sensor does not switch 2) Period of pressure over the switching point > dS: pressure sensor switches 3) Period of pressure under the resetting point > dR: pressure sensor switches

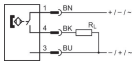
Window function: switching and resetting behavior depending on pressure p and time t



FH: pressure band, upper value
FL: pressure band, lower value
Out (NC): switch output, break contact Out (NO): switch output, make contact

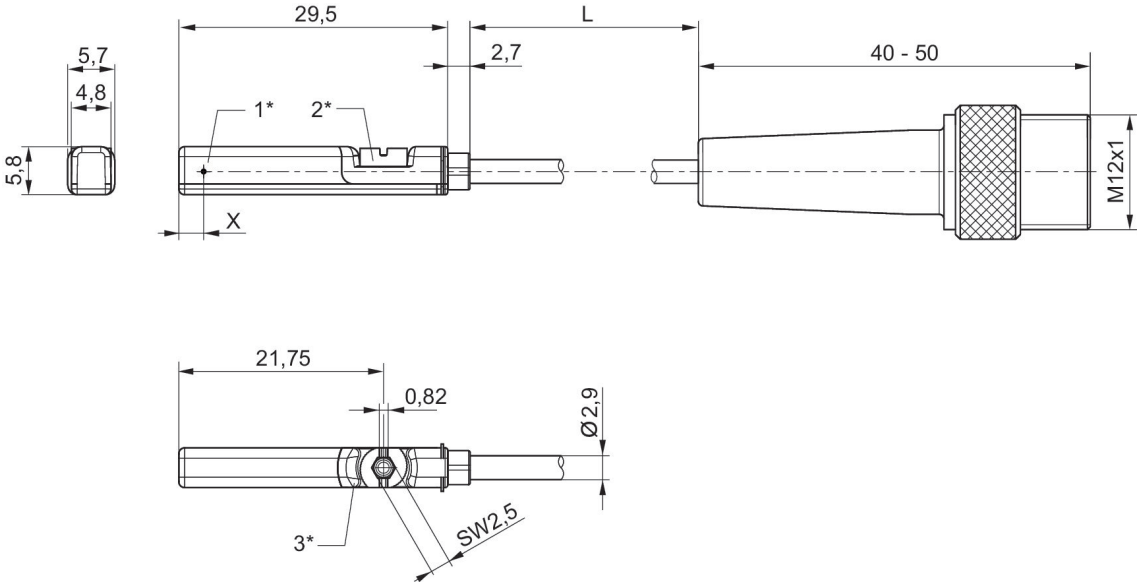
Sensors, Series ST6, plug M12x1

Electrical connection 2, thread size: M12
Certificates: CE declaration of conformity, cULus, RoHS, UL (Underwriters Laboratories)
Electrical connection 2, number of poles: 3-pin
Ambient temperature min./max.: -30 °C ... 80 °C

	Switch descr.	Cable sheath	Electrical interface 2	Number of poles	Max. DC switching current [A]	Max. AC switching current [A]	Min. operating voltage DC [V DC]	Part No.
	Reed	Polyurethane	M12x1	3-pin	0.3	0.5	10	R412022876

Max. operating voltage DC [V DC]	Min. operating voltage AC [V AC]	Max. operational voltage AC [V AC]	Version	Cable length L [m]	Part No.
30	10	30	Protected against polarity reversal	0.3	R412022876

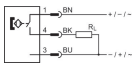
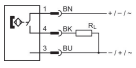
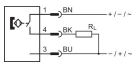
Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
X = PNP: 11,6 mm, reed: 8,3 mm

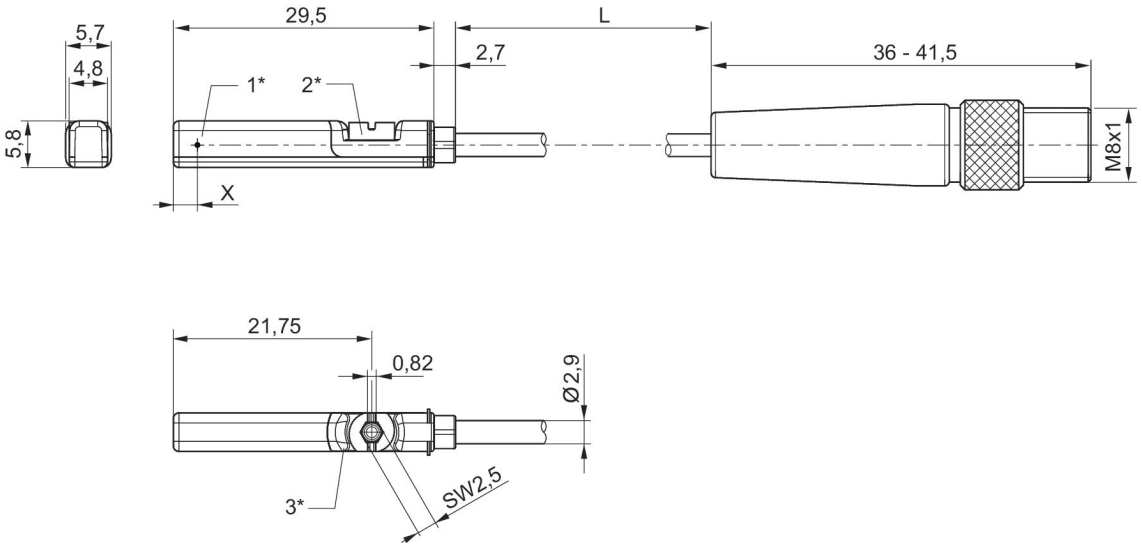
Sensors, Series ST6, plug M8x1, with knurled screw

Certificates: CE declaration of conformity, cULus, RoHS, UL (Underwriters Laboratories)
Electrical connection 2, number of poles: 3-pin
Ambient temperature min./max.: -30 °C ... 80 °C

	Switch descr.	Cable sheath	Electrical interface 2	Number of poles	Max. DC switching current [A]	Max. AC switching current [A]	Min. operating voltage DC [V DC]	Part No.
	Reed	Polyurethane	M8x1	3-pin	0.3	0.5	10	R412022873
	Reed	Polyvinyl chloride	M8x1	3-pin	0.3	0.5	10	R412022875
	Reed	Polyurethane	M8x1	3-pin	0.3	0.5	10	R412022874

Max. operating voltage DC [V DC]	Min. operating voltage AC [V AC]	Max. operational voltage AC [V AC]	Version	Cable length L [m]	Part No.
30	10	30	Protected against polarity reversal	0.3	R412022873
30	10	30	Protected against polarity reversal	0.3	R412022875
30	10	30	Protected against polarity reversal	0.5	R412022874

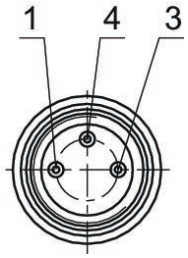
Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
X = electronic: 11,6 mm, Reed: 8,3 mm

R412022873, R412022875, R412022874

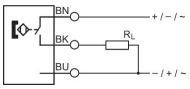
Pin assignment M8x1 (3-pin)



Pin	Allocation
1	(+)
3	(-)
4	(OUT)

Sensors, Series ST6, open cable ends, 3-pin, Reed

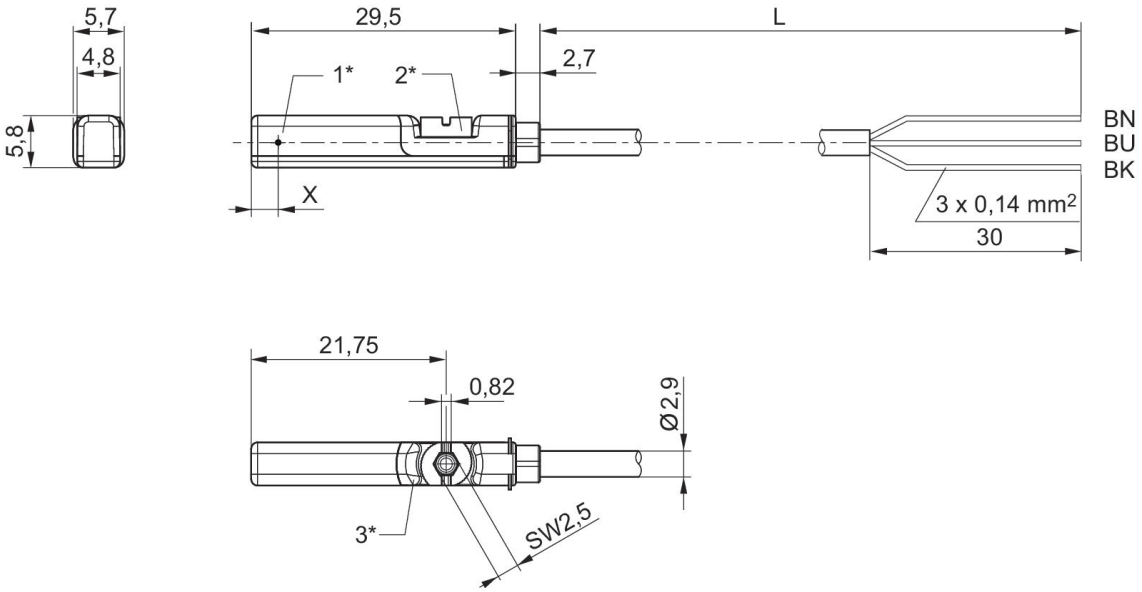
Certificates: CE declaration of conformity, cULus, RoHS, UL (Underwriters Laboratories)
Ambient temperature min./max.: -30 °C ... 80 °C



Switch descr.	Cable sheath	Number of poles	Max. DC switching current [A]	Max. AC switching current [A]	Min. operating voltage DC [V DC]	Max. operating voltage DC [V DC]	Min. operating voltage AC [V AC]	Part No.
Reed	Polyurethane	3-pin	0.3	0.5	10	30	10	R412022869
Reed	Polyurethane	3-pin	0.3	0.5	10	30	10	R412022870
Reed	Polyurethane	3-pin	0.3	0.5	10	30	10	R412022871

Max. operational voltage AC [V AC]	Version	Cable length L [m]	Part No.
30	Protected against polarity reversal	3	R412022869
30	Protected against polarity reversal	5	R412022870
30	Protected against polarity reversal	10	R412022871

Dimensions

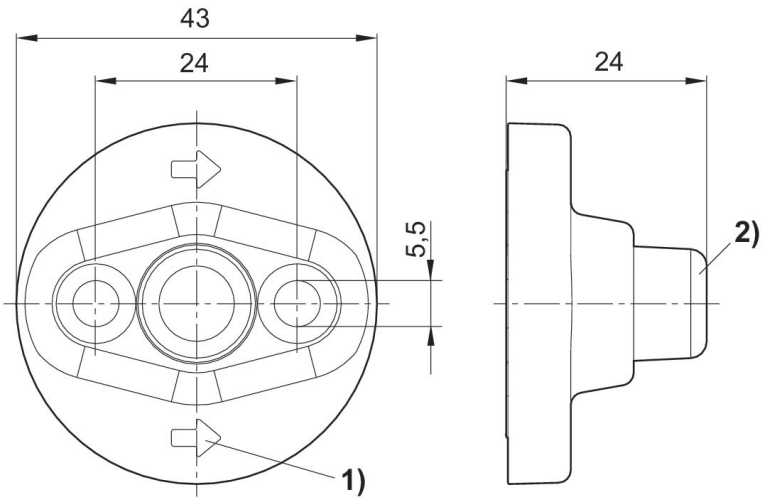


1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length BN = brown, BK = black, BU = blue
X = electronic: 11.6 mm

contamination display

Material	Weight [kg]	Part No.
Polyamide	0.025	R412006363

Dimensions in mm



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]).

Series QR2-S-RPN standard

Compressed air connection type: External thread
Compressed air connection type 2: Push-in fitting
Ambient temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: -0.95 bar ... 16 bar

G	Ø D	Delivery unit [piece]	Material	Fig.	Part No.
G 1/2	Ø 12	5	Brass	Fig. 1	1823373054
G 1/2	Ø 14	5	Brass	Fig. 1	1823373055
G 1/2	Ø16	1	Brass	Fig. 1	R412007955

Fig. 1

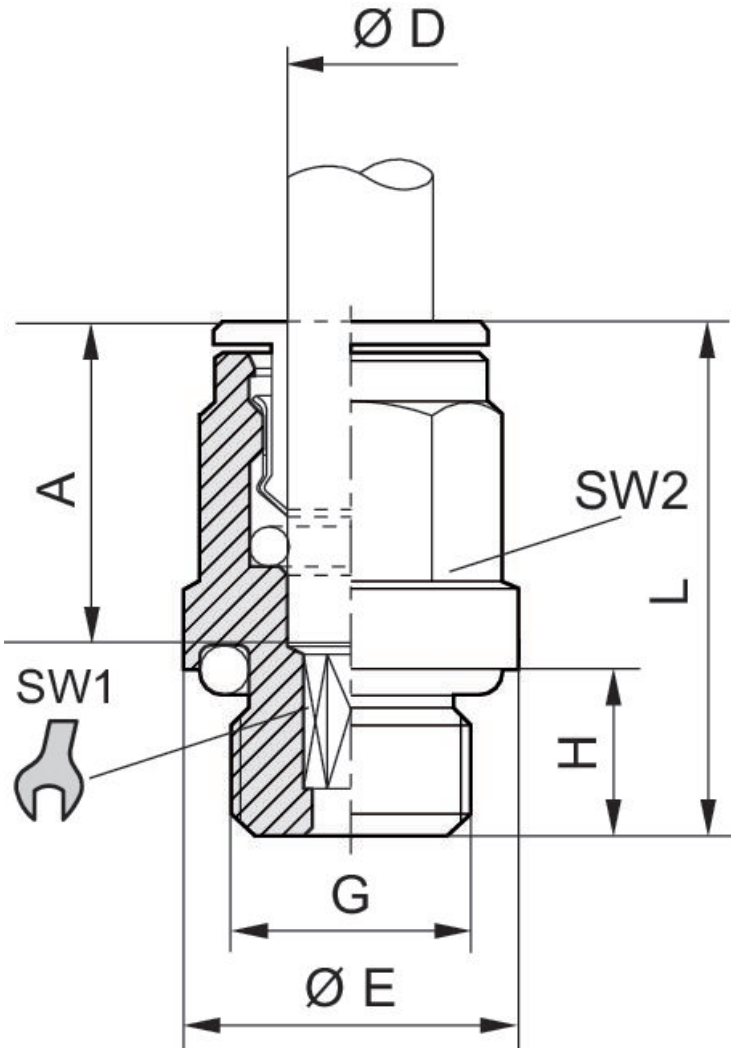
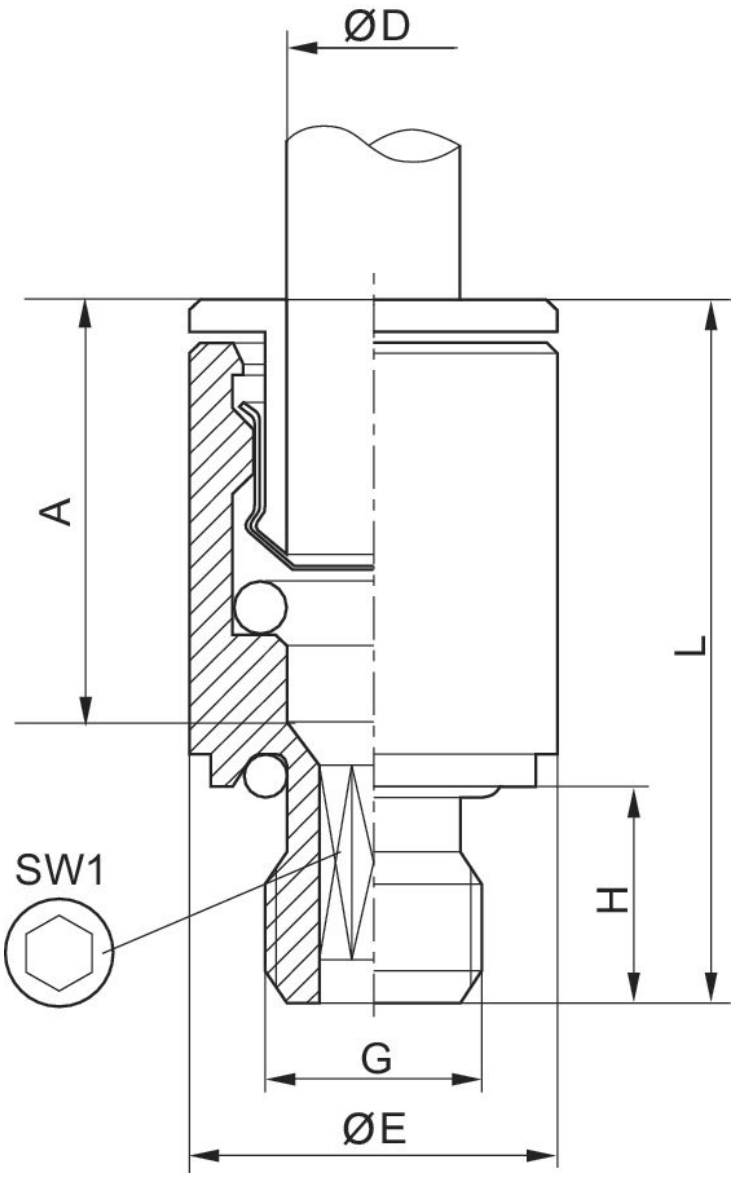


Fig. 2



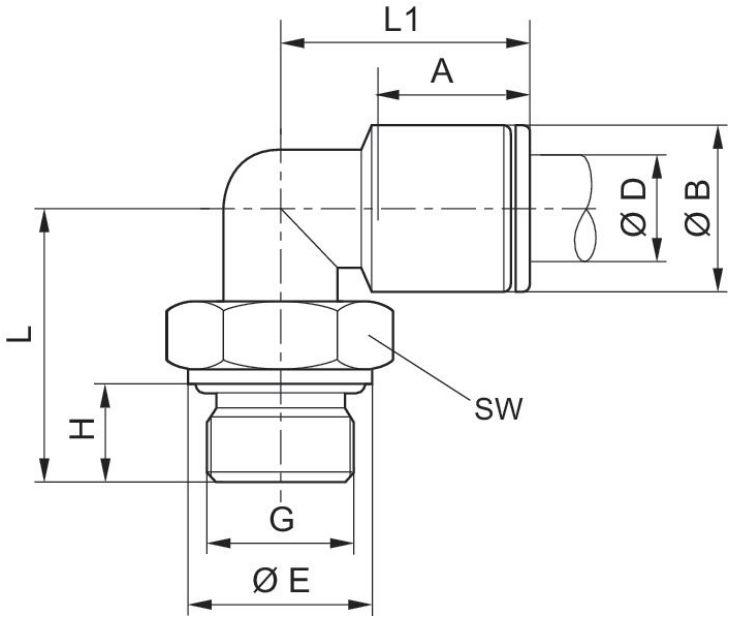
Part No.	Port D	Port G	Ø E	H	L	A Insertion depth	SW 1	SW 2	Fig.
1823373038	Ø 4	M5	9	4	20.5	15	2.5	–	
1823373039	Ø 5	M5	9.5	4	22	16	2.5	–	
1823373040	Ø 6	M5	10.5	4	22	16	2.5	–	
1823373100	Ø 4	M7	10.8	6	22	15	2.5	9	
1823373088	Ø 6	M7	10.5	6	24	16	3.5	–	
1823373041	Ø 4	G 1/8	13.5	6	20	15	2.5	9	
1823373042	Ø 5	G 1/8	13.5	6	22	16	4	10	
1823373043	Ø 6	G 1/8	13.5	6	24	16	4	11	
1823373044	Ø 8	G 1/8	13	6	26.5	18	5	13	
1823373045	Ø 4	G 1/4	17	8	21	15	2.5	9	
1823373046	Ø 5	G 1/4	17	8	22	16	4	10	
1823373047	Ø 6	G 1/4	17	6.5	22.5	16	4	11	
1823373048	Ø 8	G 1/4	17	8	25	18	6	13	
1823373049	Ø 10	G 1/4	16	8	29.5	19	7	16	
1823391809	Ø 12	G 1/4	16	6.5	30	20	7	18	
R412004708	Ø 12	G 1/4	17	8.3	31		7	–	
1823373050	Ø 8	G 3/8	20	9	25	18	6	13	
1823373051	Ø 10	G 3/8	21	9	29.5	19	8	16	
1823373052	Ø 12	G 3/8	21	9	31	20	10	18	
1823373053	Ø 14	G 3/8	21	9	34	22	10	21	
1823373054	Ø 12	G 1/2	24	11	31	20	10	18	
1823373055	Ø 14	G 1/2	24	11	34	22	12	21	
R412007955	Ø16	G 1/2	24	11	37		12	24	

Series QR2-S-RVT standard

Compressed air connection type: External thread
Compressed air connection type 2: Push-in fitting
Ambient temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: -0.95 bar ... 16 bar

G	Ø D	Delivery unit [piece]	Material	Part No.
G 1/2	Ø 10	5	Brass	R412007589
G 1/2	Ø 12	5	Brass	1823391840
G 1/2	Ø 14	5	Brass	1823391841
G 1/2	Ø16	1	Brass	R412007956

Dimensions



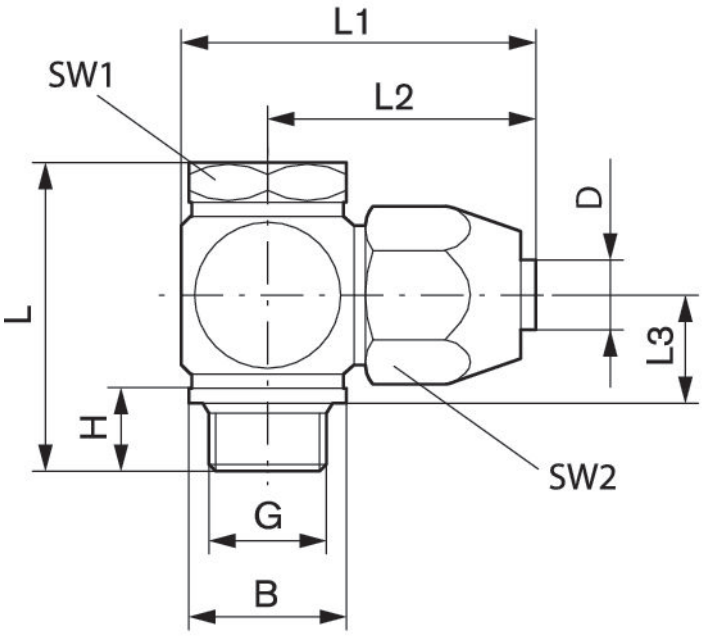
Part No.	Port D	Port G	ØB	ØE	H	L	L1	A Insertion depth	SW
1823391709	Ø 4	M5	9	8	4	14.5	19	14	9
1823391889	Ø 6	M5	11	8	4	14.5	21	16	9
1823391885	Ø 4	M7	9	10	6	16.5	18	14	9
1823391886	Ø 6	M7	11	10	6	16.5	19.5	16	9
1823391710	Ø 4	G 1/8	9	13	6	20	19	15	13
1823391711	Ø 6	G 1/8	11	13	6	20	21	16	13
1823391712	Ø 8	G 1/8	13	13	6	20	24	18	13
R412007687	Ø 10	G 1/8	15	13	6	24	27	19	13
1823391713	Ø 4	G 1/4	9	16	8	24	19	15	13
1823391714	Ø 6	G 1/4	11	16	8	24	21	16	13
1823391715	Ø 8	G 1/4	13	16	8	24	24	18	13
1823391718	Ø 10	G 1/4	15	16	8	24	27	19	16
1823391843	Ø 12	G 1/4	17	16	8	30.5	29	20	16
1823391716	Ø 8	G 3/8	13	20	9	25.5	24	18	13
1823391717	Ø 10	G 3/8	15	20	9	28	27	19	16
1823391838	Ø 12	G 3/8	17	20	9	28.5	28	20	20
1823391839	Ø 14	G 3/8	20	20	9	28.5	31	22	20
R412010182	Ø16	G 3/8	23	20	9	33.5	33	23.5	20
R412007589	Ø 10	G 1/2	15	25	11	30	27	19	16
1823391840	Ø 12	G 1/2	17	25	11	33.5	28	20	20
1823391841	Ø 14	G 1/2	20	25	11	33.5	31	22	20
R412007956	Ø16	G 1/2	23	25	11	38	33	23.5	20

Series NU2

Compressed air connection type: External thread
Compressed air connection type 2: plug-in with tube nut
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: -0.95 bar ... 10 bar

G	Ø D	Delivery unit [piece]	Material	Part No.
G 3/4	Ø 18	10	Aluminum	1823391807
G 1	Ø 18	10	Aluminum	1823391808

Dimensions



for fabric-reinforced plastic tubing

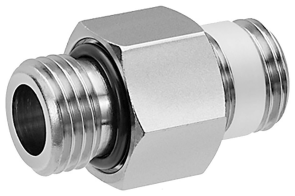
Part No.	Port D	Port G	B	H	L	L1	L2	L3	SW1
1823391293	Ø 4	G 1/8	14	10	32.5	34	26.5	13.7	14
1823391294	Ø 6	G 1/4	18	12.5	39	39.5	30	14.5	17
1823391295	Ø 8	G 1/4	18	12.5	42	42	32.5	16	17
1823391296	Ø 8	G 3/8	21	12.5	43	47	35	15.5	22
R412010658	Ø 9	G 1/4	18.9	7.9	40	42	32.5	15.6	17
R412007838	Ø 13	G 1/2	22.9	14	49.5	55	40	18.5	27
R412007839	Ø 13	G 3/8	22.9	12.5	47	49	37	18.5	22
1823391807	Ø 18	G 3/4	33	18.5	66	69	51	25	32
1823391808	Ø 18	G 1	40	20.5	70	77	55	25	41

Part No.	SW2
1823391293	17
1823391294	19
1823391295	22
1823391296	22
R412010658	24
R412007838	30
R412007839	30
1823391807	41
1823391808	41

Connection D = inside diameter of the tubing to be used

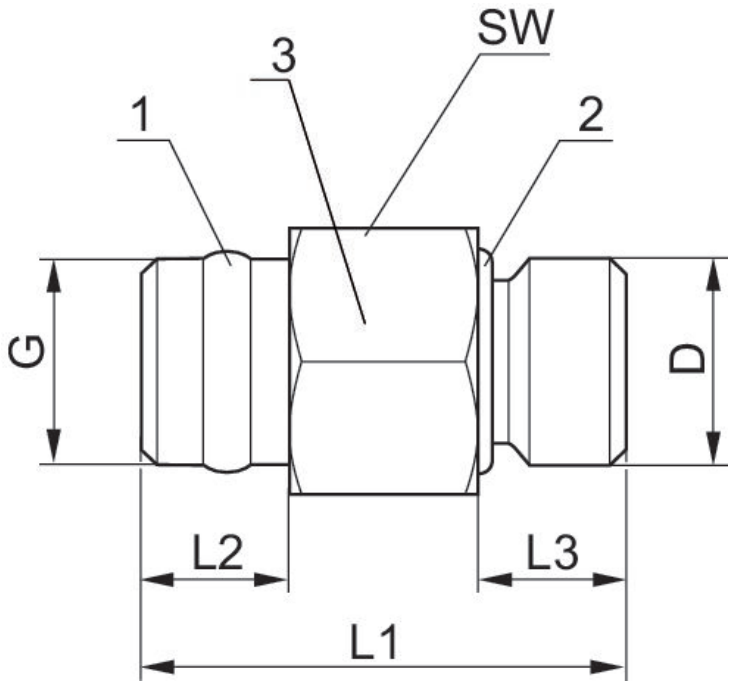
Double nipple, Series PE5

Compressed air connection type: External thread
Compressed air connection type 2: External thread



G	Ø D	Delivery unit [piece]	Weight [kg]	Part No.
G 1/4	G 1/8	2	0.04	R412010015
G 1/4	G 1/4	2	0.04	R412010016

Dimensions



1) sealing ring Polytetrafluorethylen
2) O-ring - acrylonitrile butadiene rubber
3) Housing - brass, nickel-plated

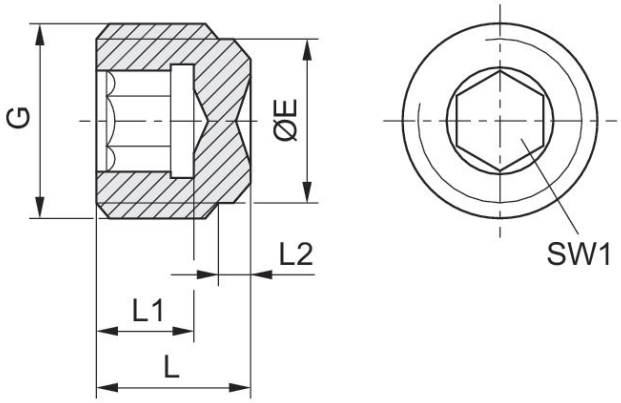
Part No.	Port G	Port D	L1	L2	L3	SW
R412010015	G 1/4	G 1/8	30	10	8.5	17
R412010016	G 1/4	G 1/4	30	10	8.5	17

Blanking screw, Brass

Compressed air connection type: External thread
Ambient temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: 0 bar ... 16 bar

G	Delivery unit [piece]	Part No.
G 1/8	10	1823462004
G 1/4	10	1823462003

Dimensions



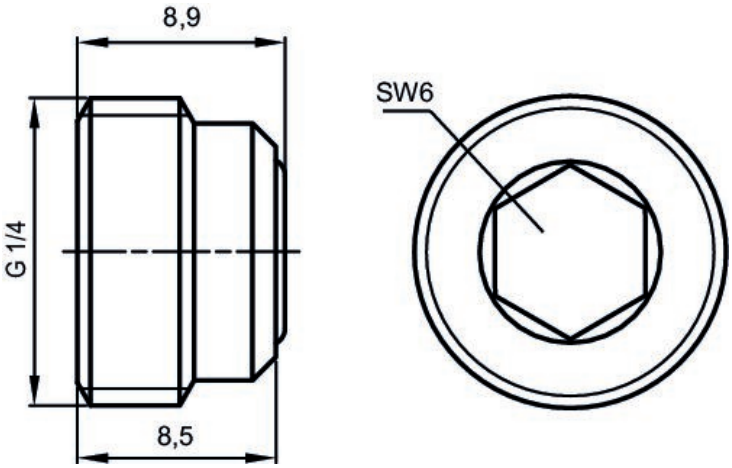
Dimensions in mm

Part No.	Port G	ØE	L	L1	L2	SW1
1823462004	G 1/8	8	8	5	2	5
1823462003	G 1/4	11	11	7	3.5	6

Orifice plugs

Type	Delivery unit [piece]	Material	Part No.
Orifice plugs	10	Polyamide	R412010124

Dimensions

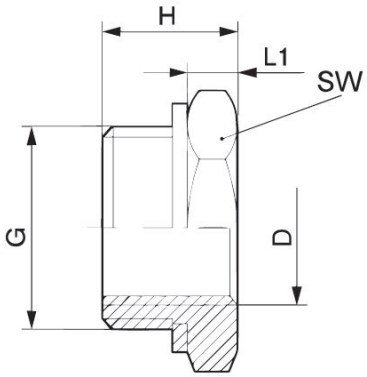


Reducing nipple

Compressed air connection type: External thread
Compressed air connection type 2: Internal thread
Ambient temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: 0 bar ... 16 bar

G	Ø D	Delivery unit [piece]	Part No.
G 3/4	G 1/4	5	1823391301

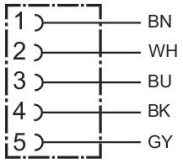
Dimensions



Part No.	Port D	Port G	H	L1	SW
1823391080	M5	G 1/8	10.5	4.5	14
1823391012	G 1/8	G 1/4	13	4	17
1823391298	G 1/8	G 3/8	14	5	19
1823391013	G 1/4	G 3/8	15	5	19
1823391299	G 1/8	G 1/2	15.5	5.5	24
1823391300	G 1/4	G 1/2	15.5	5.5	24
1823391014	G 3/8	G 1/2	15.5	5.5	24
1823391301	G 1/4	G 3/4	19	7	32
1823391302	G 3/8	G 3/4	19	7	32
1823391028	G 1/2	G 3/4	19	7	32
1823391303	G 3/8	G 1	23	8	41
1823391304	G 1/2	G 1	23	8	41
1823391285	G 3/4	G 1	23	8	41

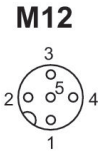
Round plug connector, Series CON-RD, 5-pin, angled, shielded

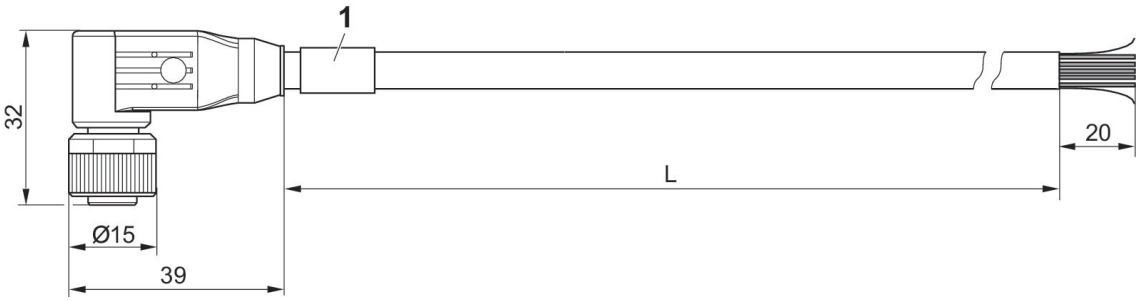
Electrical connection 1: Socket ... M12x1 ... 5-pin ... angled
Electrical connection 2: without wire end ferrule, tin-plated ... 5-pin
Certification: CE declaration of conformity, UL (Underwriters Laboratories)
Ambient temperature min./max.: -25 °C ... 85 °C



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 1, number of poles	Electrical connection 1, coding	Electrical connection 2, type	Electrical connection 2, number of poles	Cable length [m]	Part No.
60 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	5-pin	2.5	R419800109
60 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	5-pin	5	R419800110
60 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	5-pin	10	R419800546

Dimensions

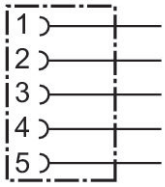




1) Cable sleeve

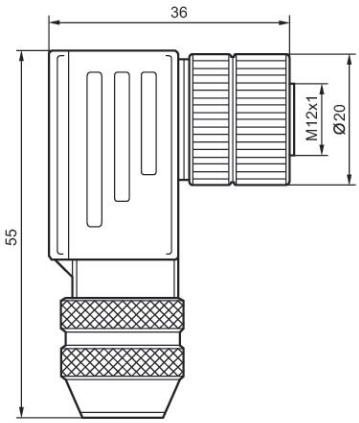
Round plug connector, Series CON-RD

Electrical connection 1: Socket ... M12x1 ... 5-pin ... angled
Protocol: CANopen
Connection type: Screws
Shielding: shielded
Ambient temperature min./max.: -40 °C ... 85 °C



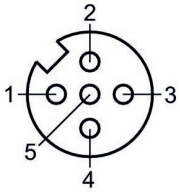
Operational voltage	Coding	Shielding	Protocol	Connection type	Max. current [A]	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	A-coded	shielded	CANopen	Screws	4	6	8	1824484029

Dimensions



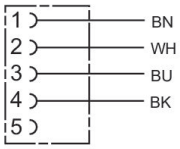
1824484029

Pin assignment, socket



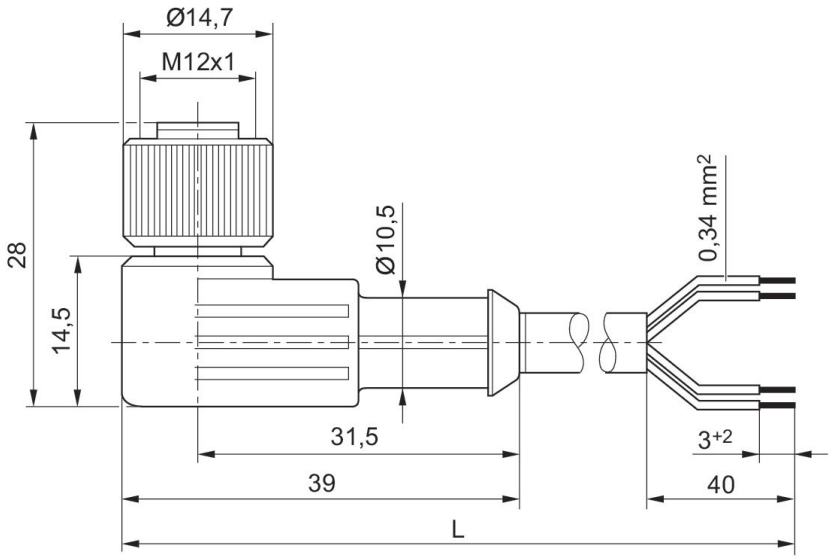
Round plug connector, Series CON-RD, 5-pin, angled, unshielded

Electrical connection 1: Socket ... M12x1 ... 5-pin ... angled
Electrical connection 2: without wire end ferrule, tin-plated ... 4-pin
Ambient temperature min./max.: -40 °C ... 85 °C



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 1, number of poles	Electrical connection 1, coding	Electrical connection 2, type	Electrical connection 2, number of poles	Cable length [m]	Part No.
48 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	4-pin	3	1834484259
48 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	4-pin	5	1834484260
48 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	4-pin	10	1834484261

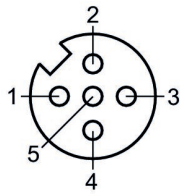
Dimensions



L = length

1834484259, 1834484260, 1834484261

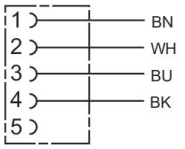
Pin assignment, socket



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

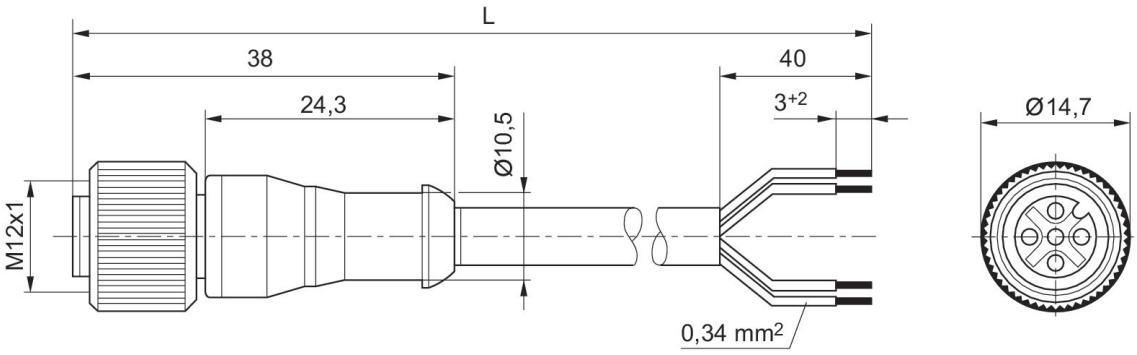
Round plug connector, Series CON-RD, open cable ends, straight

Electrical connection 1: Socket ... M12x1 ... 5-pin ... straight
Electrical connection 2: without wire end ferrule, tin-plated ... 4-pin
Ambient temperature min./max.: -25 °C ... 70 °C



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 1, number of poles	Electrical connection 1, coding	Electrical connection 2, type	Electrical connection 2, number of poles	Cable length [m]	Part No.
48 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	4-pin	3	1834484256
48 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	4-pin	5	1834484257
48 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	4-pin	10	1834484258

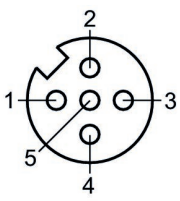
Dimensions



L = length

1834484256, 1834484257, 1834484258

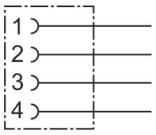
Pin assignment, socket



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

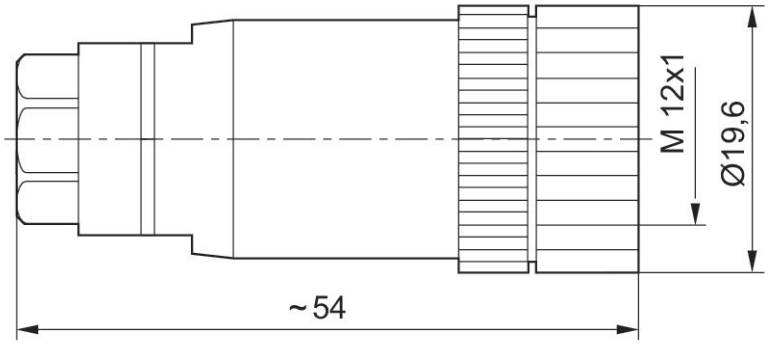
Round plug connector, Series CON-RD

Electrical connection 1: Socket ... M12x1 ... 4-pin ... A-coded ... straight
Connection type: Screws
Ambient temperature min./max.: -40 °C ... 85 °C



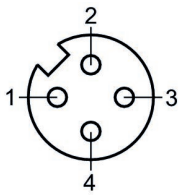
Operational voltage	Coding	Shielding	Connection type	Max. current [A]	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	A-coded	unshielded	Screws	4	4	6	1834484177

Dimensions



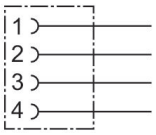
1834484177

Pin assignment, socket



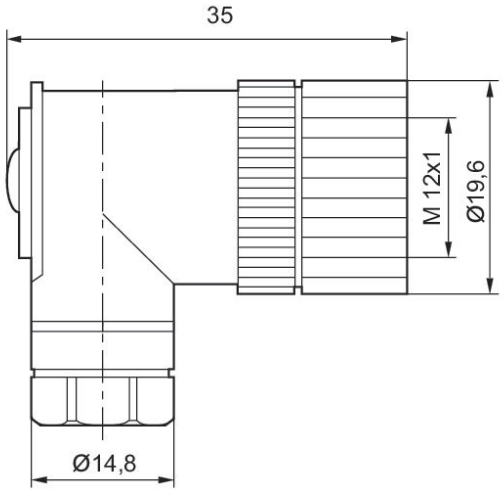
Round plug connector, Series CON-RD

Electrical connection 1: Socket ... M12x1 ... 4-pin ... A-coded ... angled
Connection type: Screws
Ambient temperature min./max.: -40 °C ... 85 °C



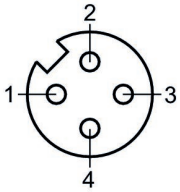
Operational voltage	Coding	Shielding	Connection type	Max. current [A]	min. suitable cable Ø [mm]	Part No.
48 V AC/DC	A-coded	unshielded	Screws	4	4	1834484178

Dimensions



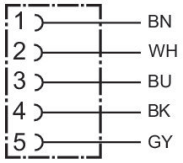
1834484178

Pin assignment, socket



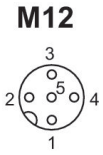
Round plug connector, Series CON-RD, 5-pin, angled, shielded

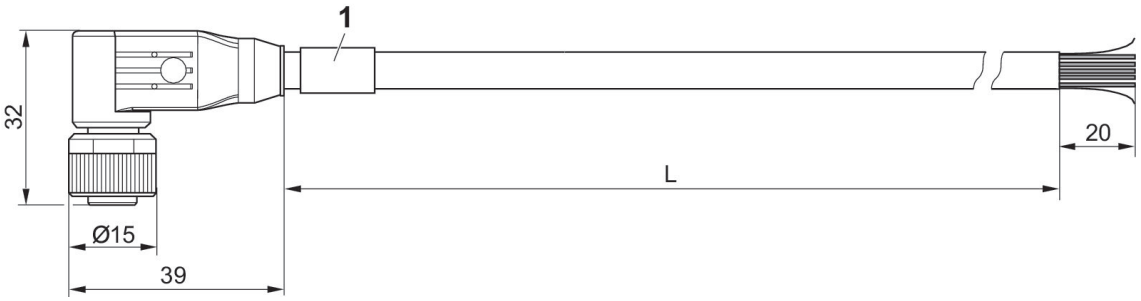
Electrical connection 1: Socket ... M12x1 ... 5-pin ... angled
Electrical connection 2: without wire end ferrule, tin-plated ... 5-pin
Certification: CE declaration of conformity, UL (Underwriters Laboratories)
Ambient temperature min./max.: -25 °C ... 85 °C



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 1, number of poles	Electrical connection 1, coding	Electrical connection 2, type	Electrical connection 2, number of poles	Cable length [m]	Part No.
60 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	5-pin	2.5	R419800109
60 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	5-pin	5	R419800110
60 V AC/DC	Socket	M12x1	5-pin	A-coded	open cable ends	5-pin	10	R419800546

Dimensions

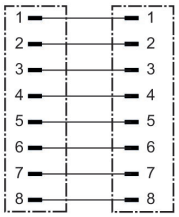




1) Cable sleeve

Round plug connectors with cable, Series CON-RD

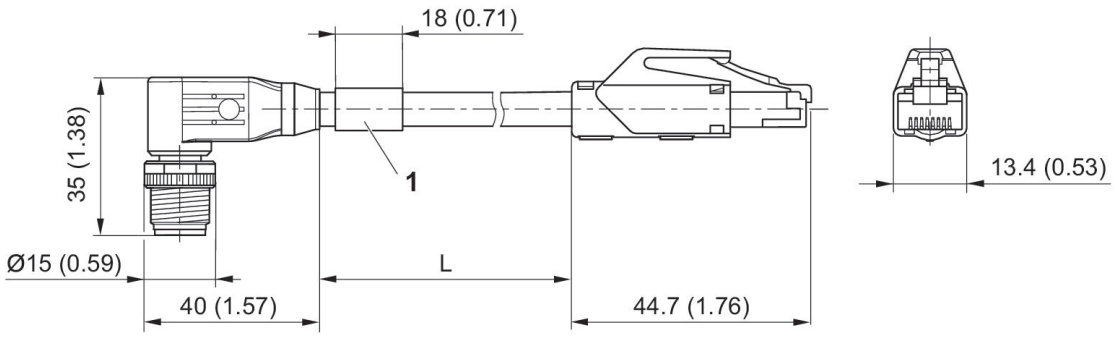
Electrical connection 1: Plug ... M12x1 ... 8-pin ... X-coded ... angled ... 90°
Electrical connection 2: Plug ... RJ45 ... 8-pin ... X-coded ... straight
Shielding: shielded
Ambient temperature min./max.: -25 °C ... 85 °C



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 1, number of poles	Electrical connection 1, coding	Electrical connection 2, type	Electrical connection 2, thread size	Electrical connection 2, number of poles	Part No.
60 V AC/DC	Plug	M12x1	8-pin	X-coded	Plug	RJ45	8-pin	R412027647

Electrical connection 2, coding	Cable length [m]	Part No.
X-coded	5	R412027647

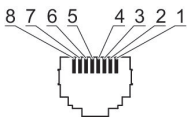
Dimensions



1) Name plate

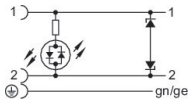
R412027647

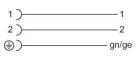
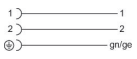
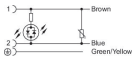
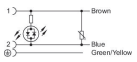
Plug pin assignment



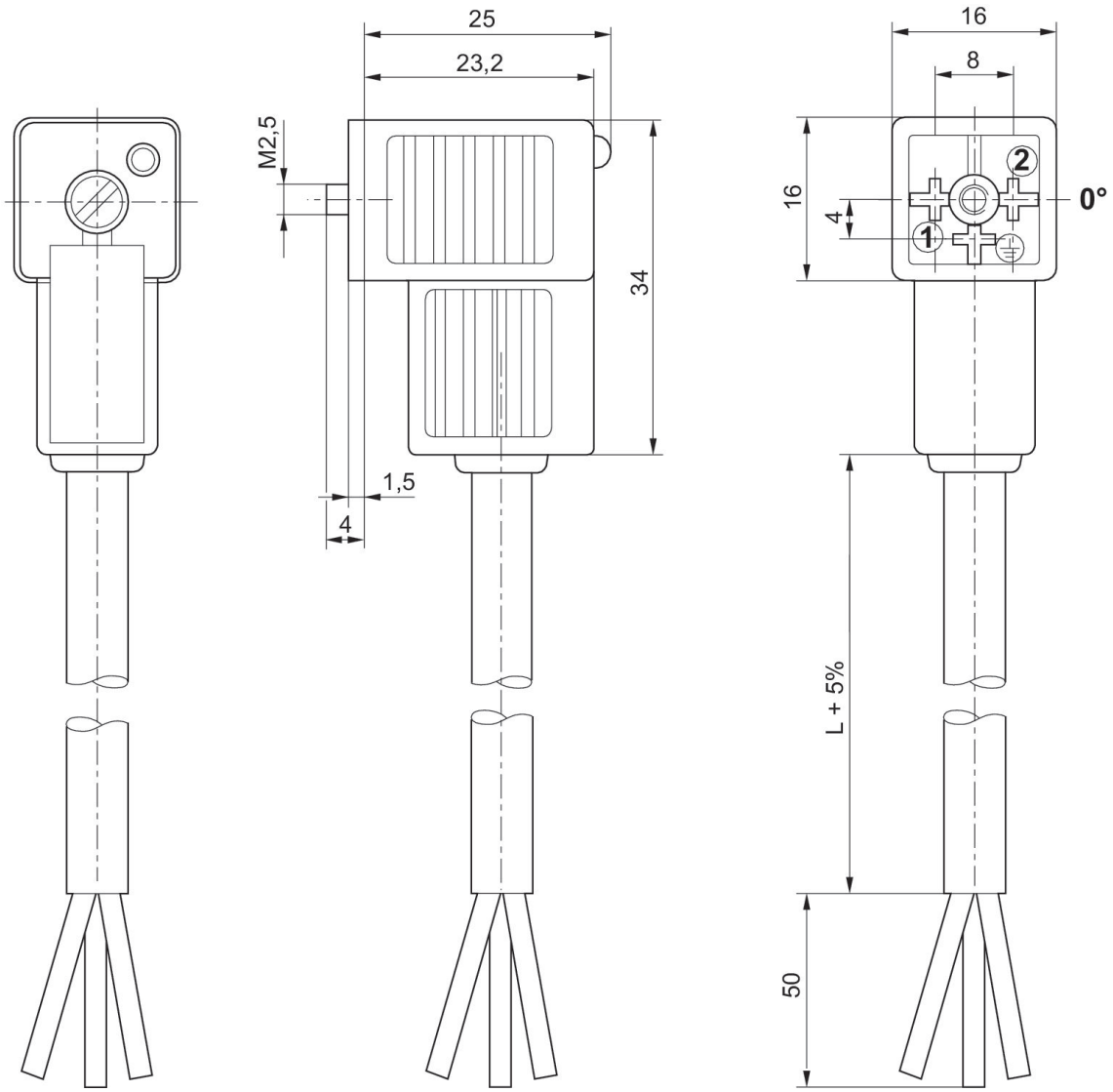
Valve plug connector, series CON-VP, 0° female insert

Electrical connection 1: Socket ... form C ... 2+E
Electrical connection 2: open cable ends ... 3-pin
Protective circuit: Z-diode
Ambient temperature min./max.: -20 °C ... 80 °C



	Operational voltage	Protective circuit	Max. current [A]	Contact assignment	LED status display	Cable-Ø [mm]	Cable length [m]	Part No.
	230 V AC/DC		6	2+E		5.9	3	1834484213
	230 V AC/DC		6	2+E		5.9	5	1834484215
	24 V AC/DC	Z-diode	6	2+E	Yellow	5.9	3	1834484205
	24 V AC/DC	Z-diode	6	2+E	Yellow	5.9	5	1834484207
	230 V AC/DC	Varistor	6	2+E	Yellow	5.9	3	1834484209
	230 V AC/DC	Varistor	6	2+E	Yellow	5.9	5	1834484211
	24 V AC/DC	Z-diode	6	2+E	Yellow	5.9	10	1834484236

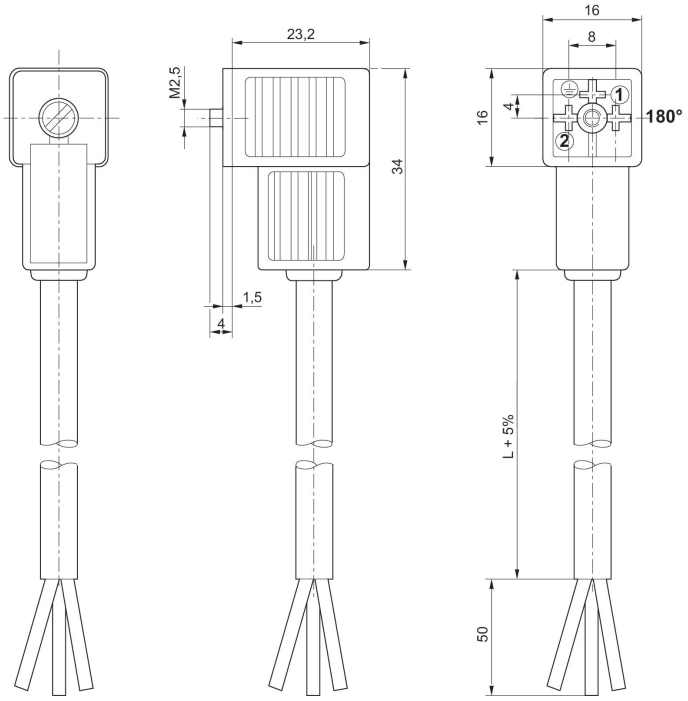
Dimensions



0° female insert

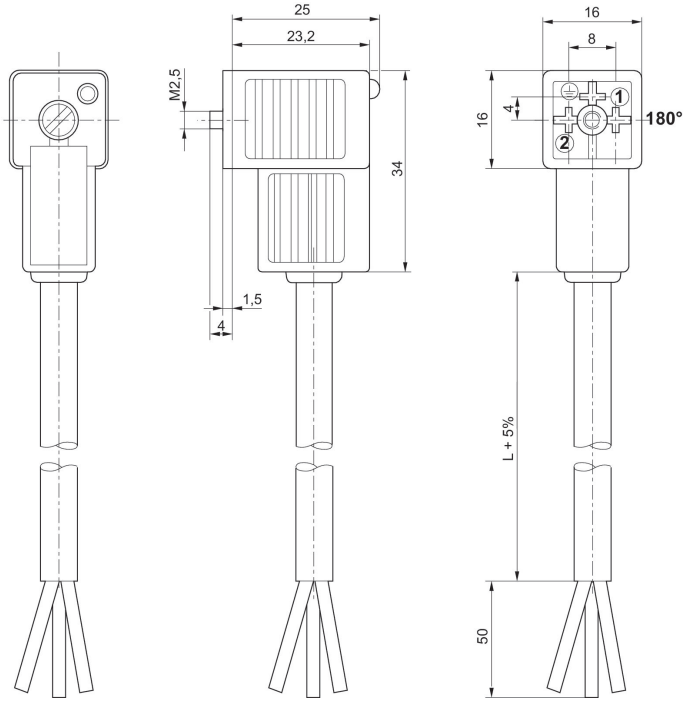
1834484213, 1834484215

Dimensions



1834484205, 1834484207, 1834484209, 1834484211, 1834484236

Dimensions



180° female insert

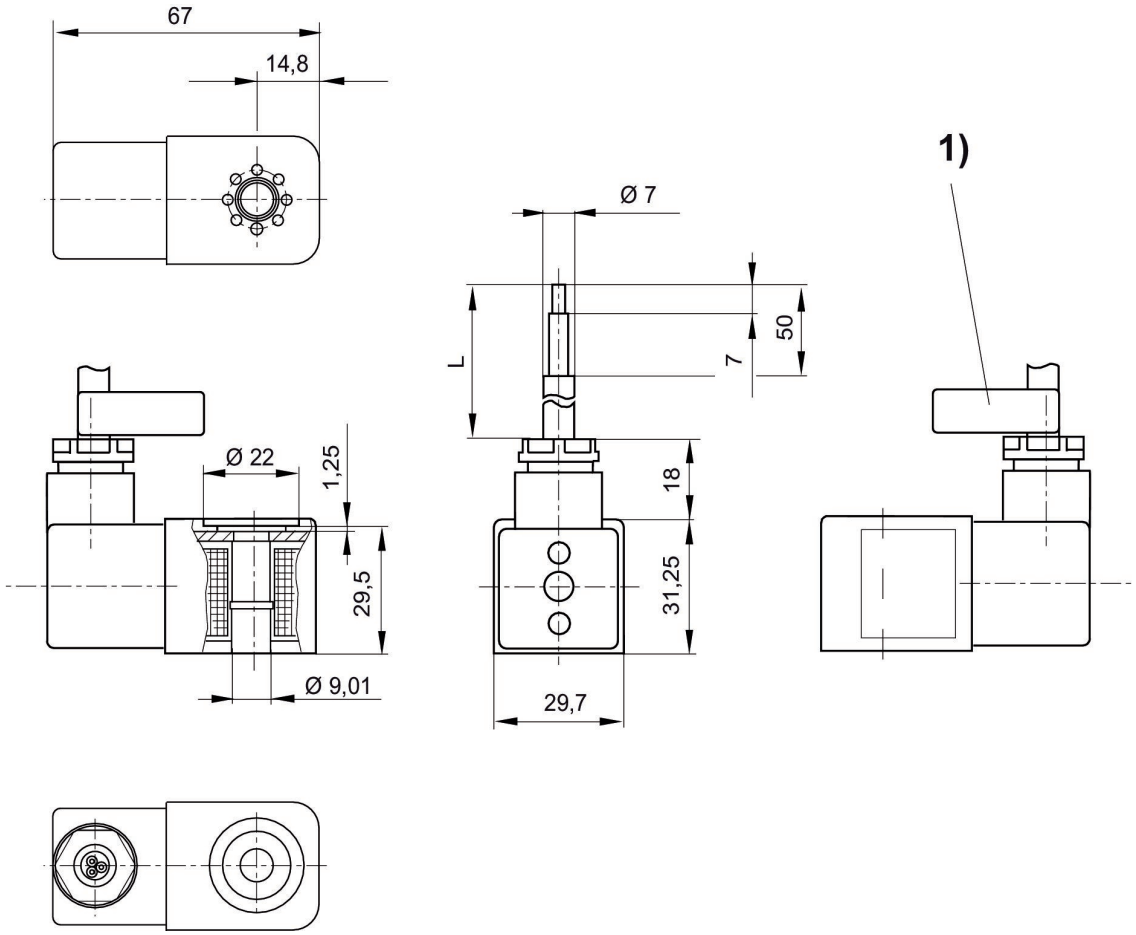
Coil, Series CO1, with cable, ATEX

Coil width: 30 mm
Ambient temperature min./max.: -20 °C ... 50 °C

Operational voltage DC	Operational voltage AC at 50 Hz	Operational voltage AC at 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC [W]	Holding power AC 50 Hz [VA]	Switch-on power AC 50 Hz [VA]	Part No.
	230 V	230 V		-10 % / +10 %		3	3.1	1827414297
	230 V	230 V		-10 % / +10 %		3	3.1	1827414298
	110 V	110 V		-10 % / +10 %		2.9	3	1827414299
24 V			-10 % / +10 %		3.25			1827414303
24 V			-10 % / +10 %		3.25			1827414304

Cable length [m]	Compatibility index	Part No.
3	14	1827414297
10	14	1827414298
3	14	1827414299
3	14	1827414303
10	14	1827414304

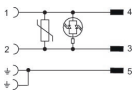
Dimensions



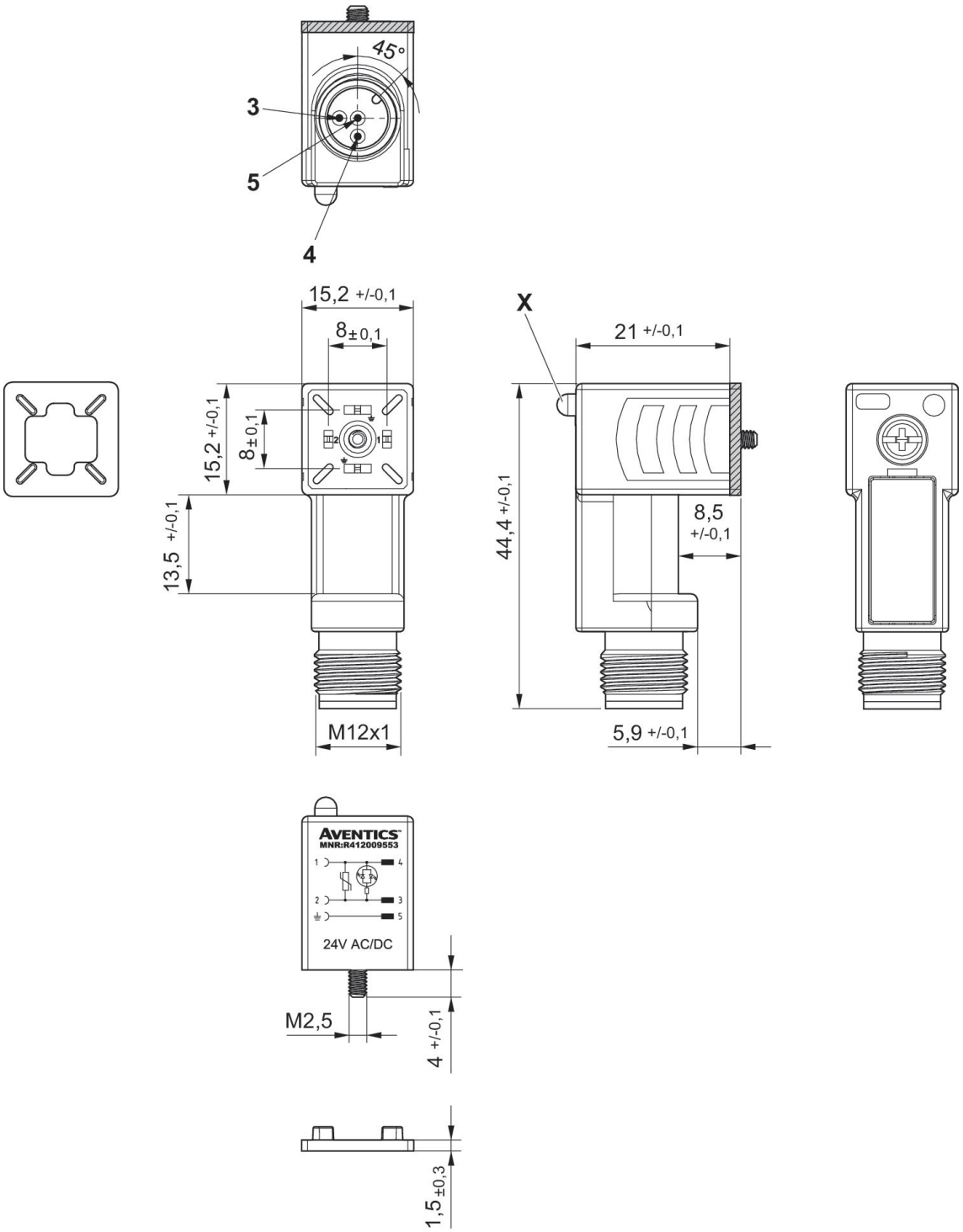
L = cable length
1) Cable ID band with serial number

Adapter, Series CON-VP

Electrical connection 1: EN 175301-803, form C
Ambient temperature min./max.: -10 °C ... 100 °C

	Max. current [A]	Part No.
	1.5	R412009553

Dimensions

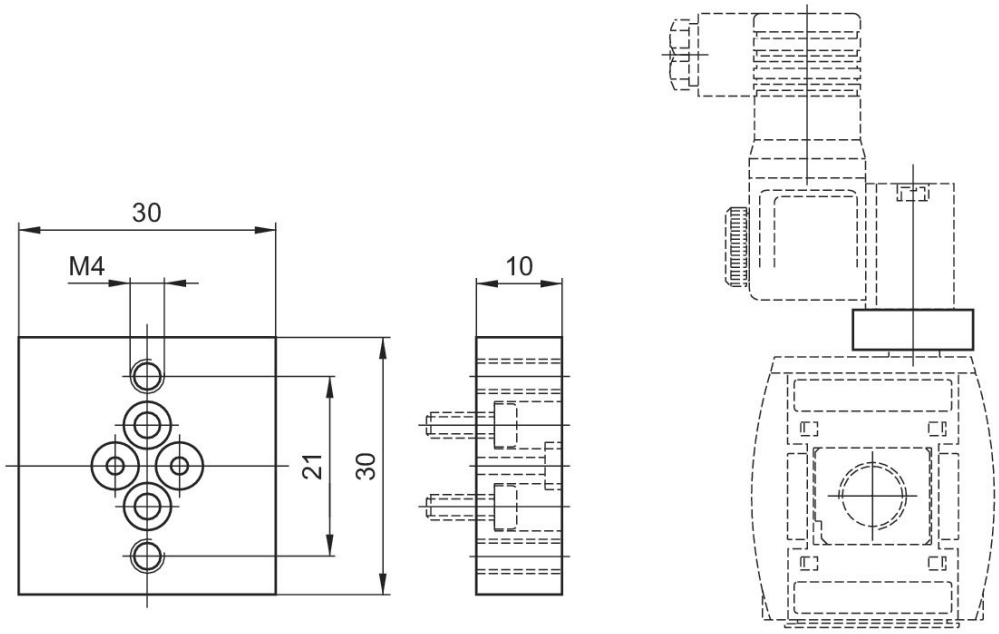


X LED
Profile seal

Transition plate, Series AS1, AS2, AS3, AS5

Material	Weight [kg]	Part No.
Aluminum	0.025	R412006360

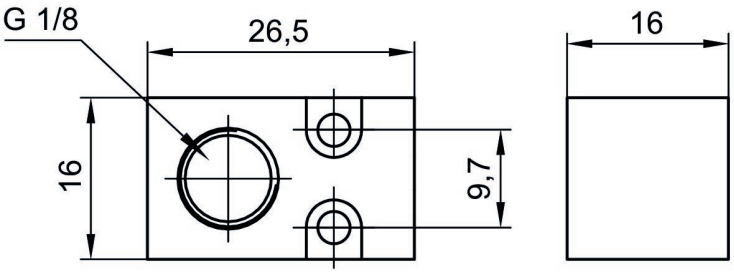
Dimensions in mm



Adapter

Compressed air connection	Material	Weight [kg]	Part No.
G 1/8	Aluminum	0.019	R412006359

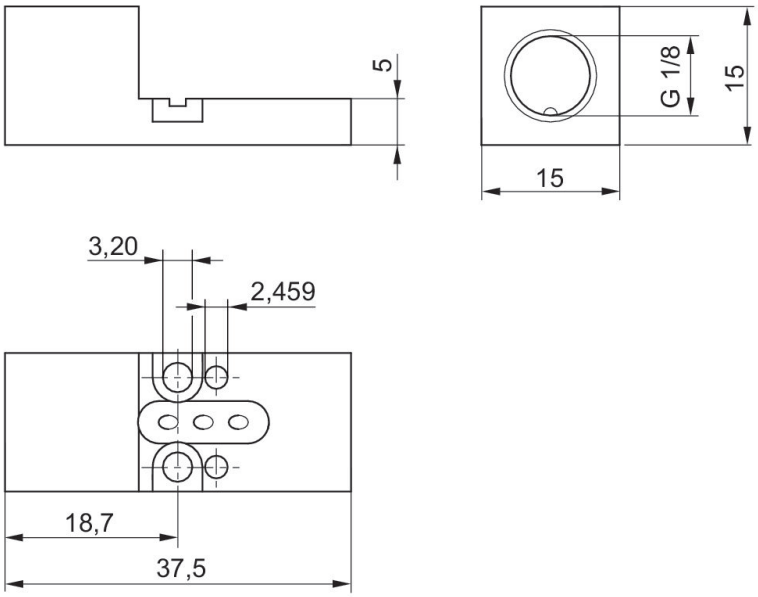
Dimensions in mm



Adapter for external pilot air

Ambient temperature min./max.: 50 °C

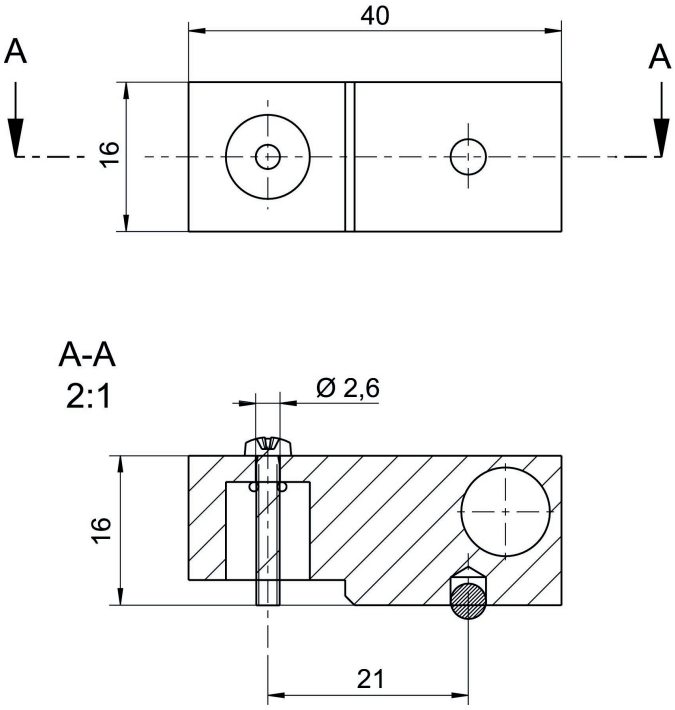
Dimensions in mm

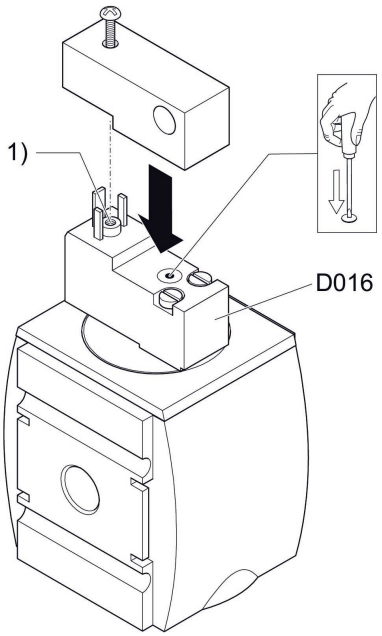


Mounting aid

Material	Part No.
Aluminum	R412019278

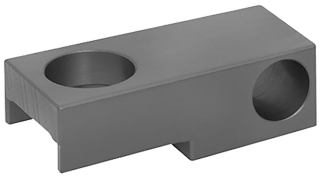
Dimensions in mm





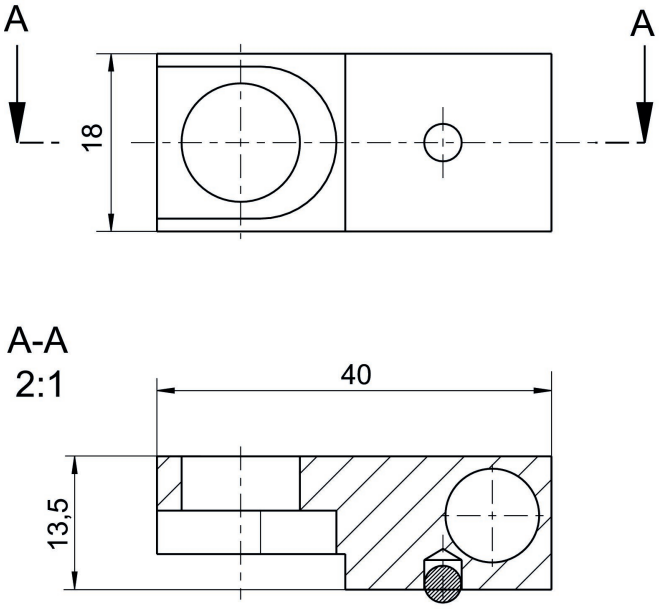
1) ISO 15217, form C

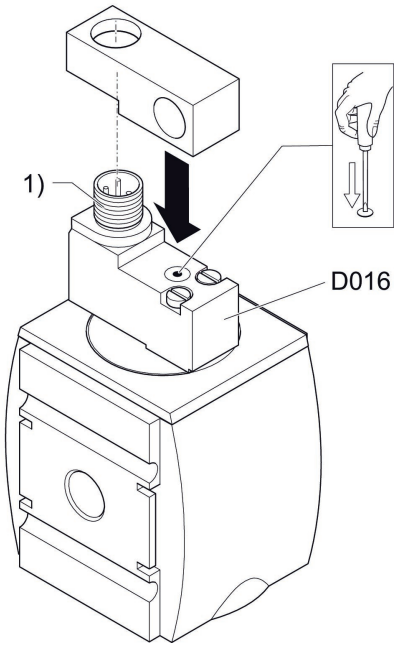
Mounting aid



Material	Part No.
Aluminum	R412015193

Dimensions in mm



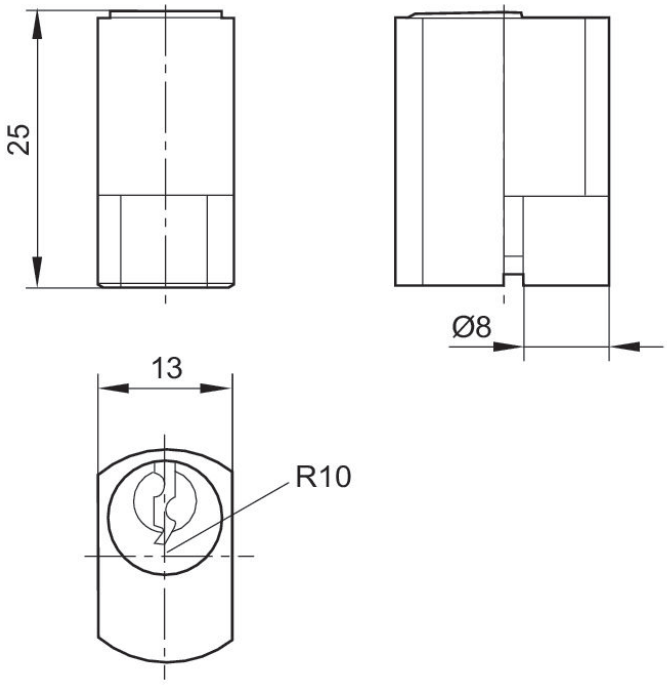


1) M12x1

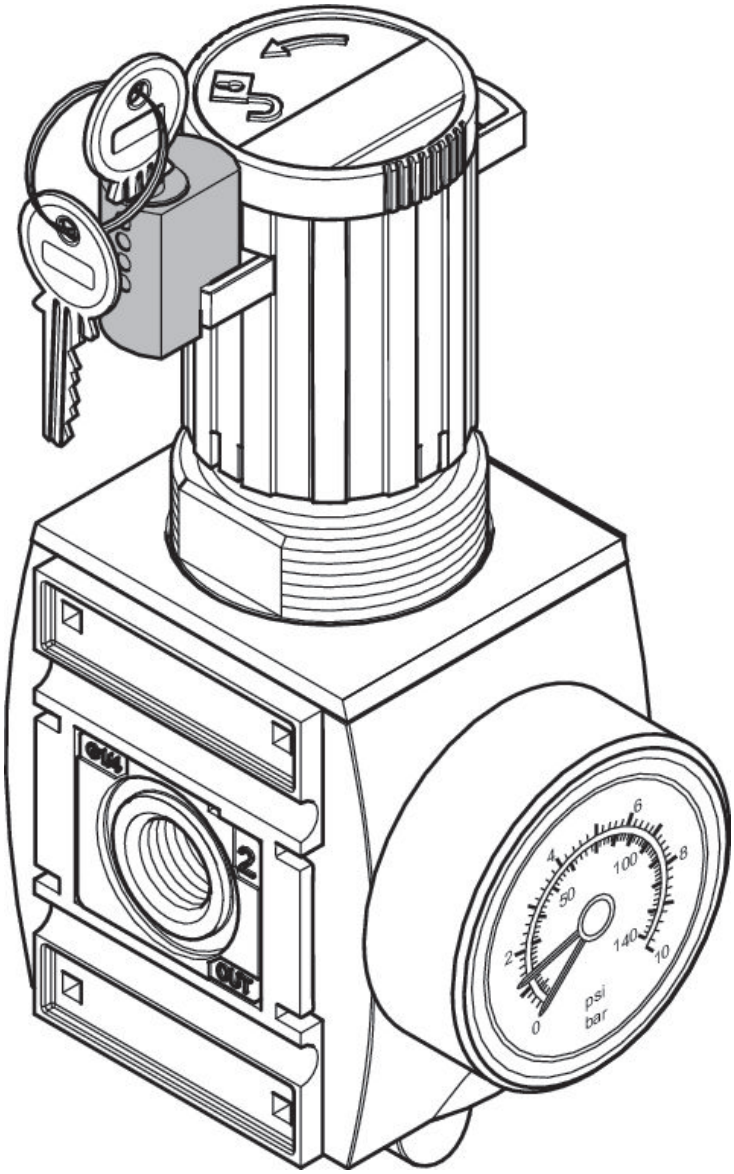
mortise lock

Type	Material	Part No.
Standard locking, with key	Steel, chrome-plated	R412007959
E11 locking, without key	Steel, chrome-plated	R412006374

Dimensions in mm



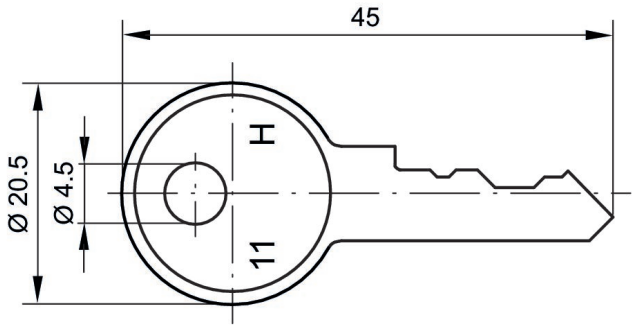
Application example



Key for E11 locking

Delivery unit [piece]	Part No.
1	R961403407

Dimensions in mm

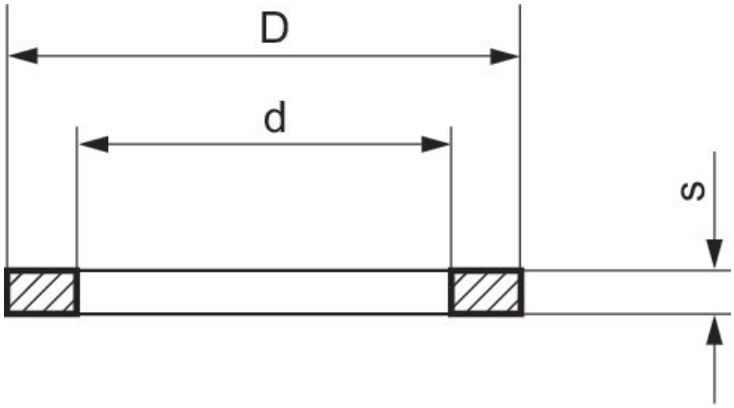


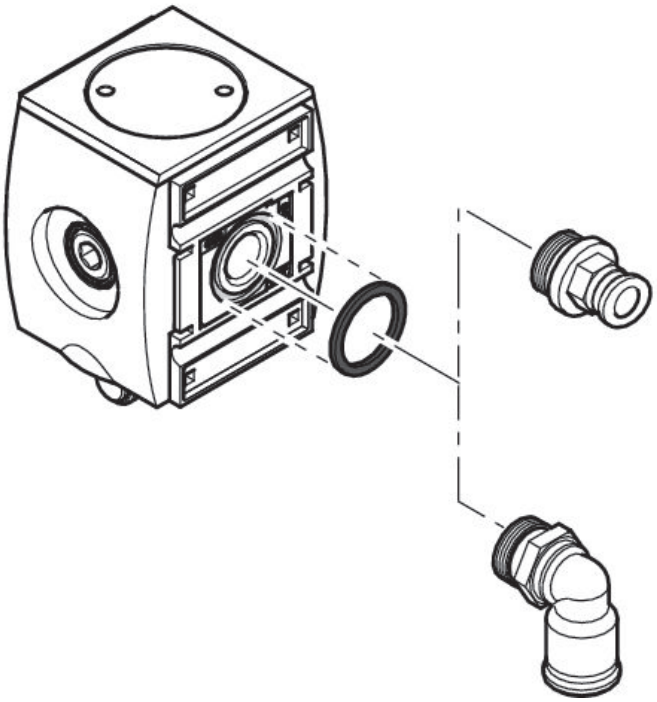
Sealing ring

Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: -0.95 bar ... 16 bar

Compressed air connection	Delivery unit [piece]	Part No.
G 3/8	10	R412010148
G 1/2	10	R412010149
G 1	10	R412010150

Dimensions

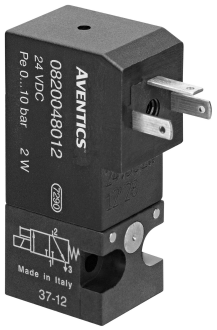


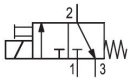
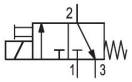
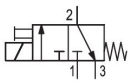
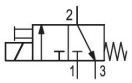
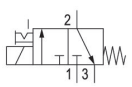
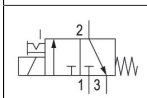
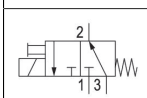
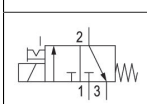
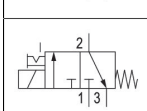
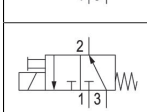
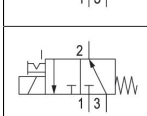


Part No.	usage	Type	d	D	s
R412010148	AS2	For compressed air connection G 3/8	18.5	22.8	2.0
R412010149	AS3	For compressed air connection G 1/2	22.4	26.4	2.0
R412010150	AS5	For compressed air connection G 1	36.9	41.9	2.0

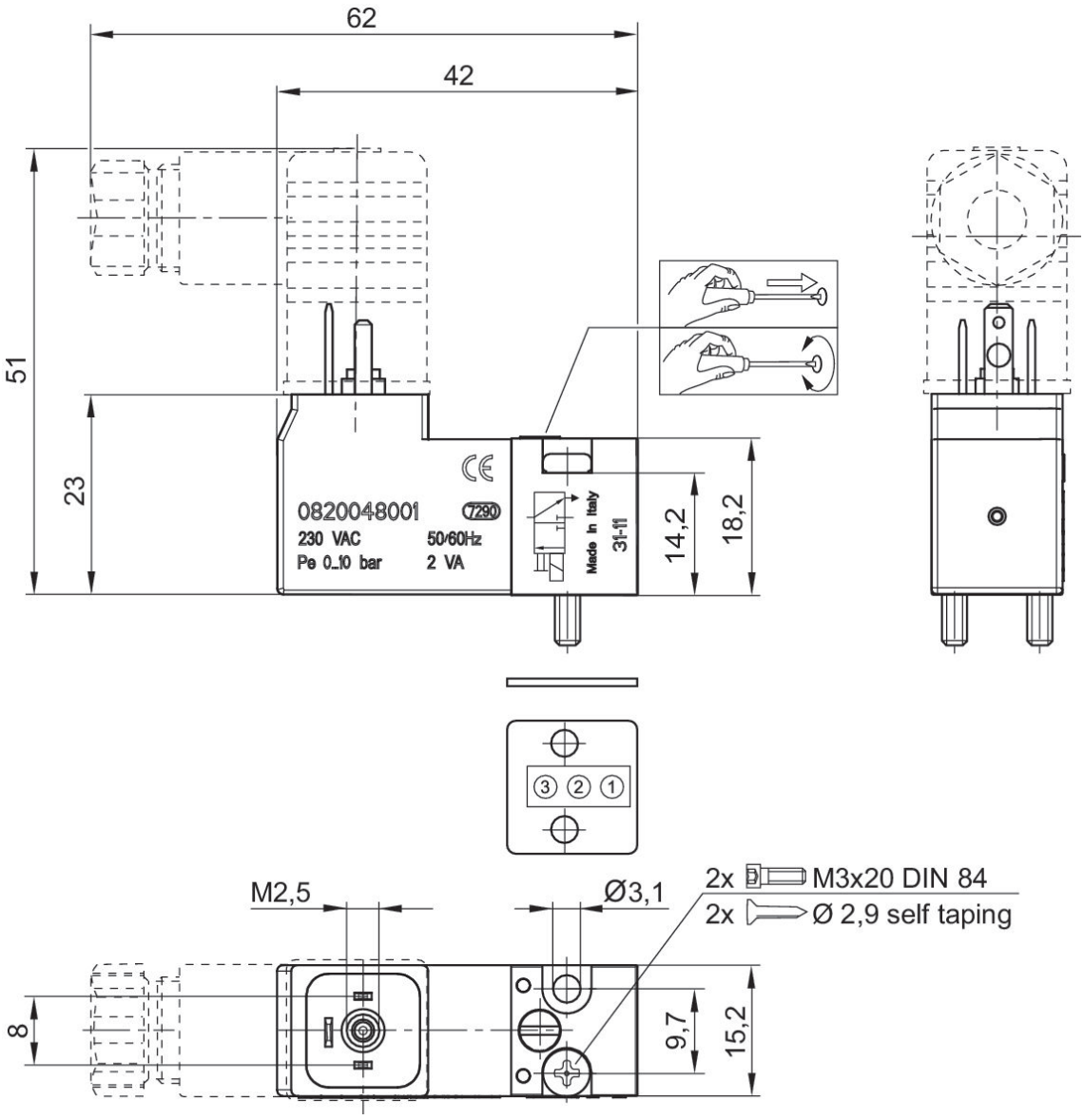
3/2-directional valve, Series DO16, 8 mm

Activation: Electrically
Duty cycle: 100 %
Type: Poppet valve
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar



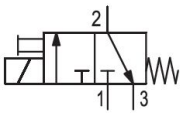
	Valve function	Switching principle	Operational voltage	Power consumption DC [W]	Voltage tolerance DC	Manual override	Nominal flow Qn 1 to 2 [l/min]	Part No.
	NC	3/2, with spring return	24 V DC	2	-10 % / +15 %	without detent	25	0820048002
	NC	3/2, with spring return	24 V AC			without detent	25	0820048004
	NC	3/2, with spring return	110 V AC			without detent	25	0820048005
	NC	3/2, with spring return	230 V AC			without detent	25	0820048001
	NC	3/2, with spring return	24 V DC	2	-10 % / +15 %	with detent	25	0820048026
	NC	3/2, with spring return	24 V AC			with detent	25	0820048028
	NO	3/2, with spring return	230 V AC			without detent	16	0820048101
	NC	3/2, with spring return	110 V AC			with detent	25	0820048029
	NC	3/2, with spring return	230 V AC			with detent	25	0820048025
	NO	3/2, with spring return	24 V DC	2	-10 % / +15 %	without detent	20	0820048102
	NO	3/2, with spring return	24 V DC	2	-10 % / +15 %	with detent	20	0820048126

Dimensions


62
42
51
23
0820048001
7290
230 VAC
50/60Hz
Pe 0..10 bar
2 VA
Made in Italy
31-11
14,2
18,2
3 2 1
M2,5
Ø3,1
2x M3x20 DIN 84
2x Ø 2,9 self taping
8
9,7
15,2

3/2-directional valve, Series DO16, Pilot valve only

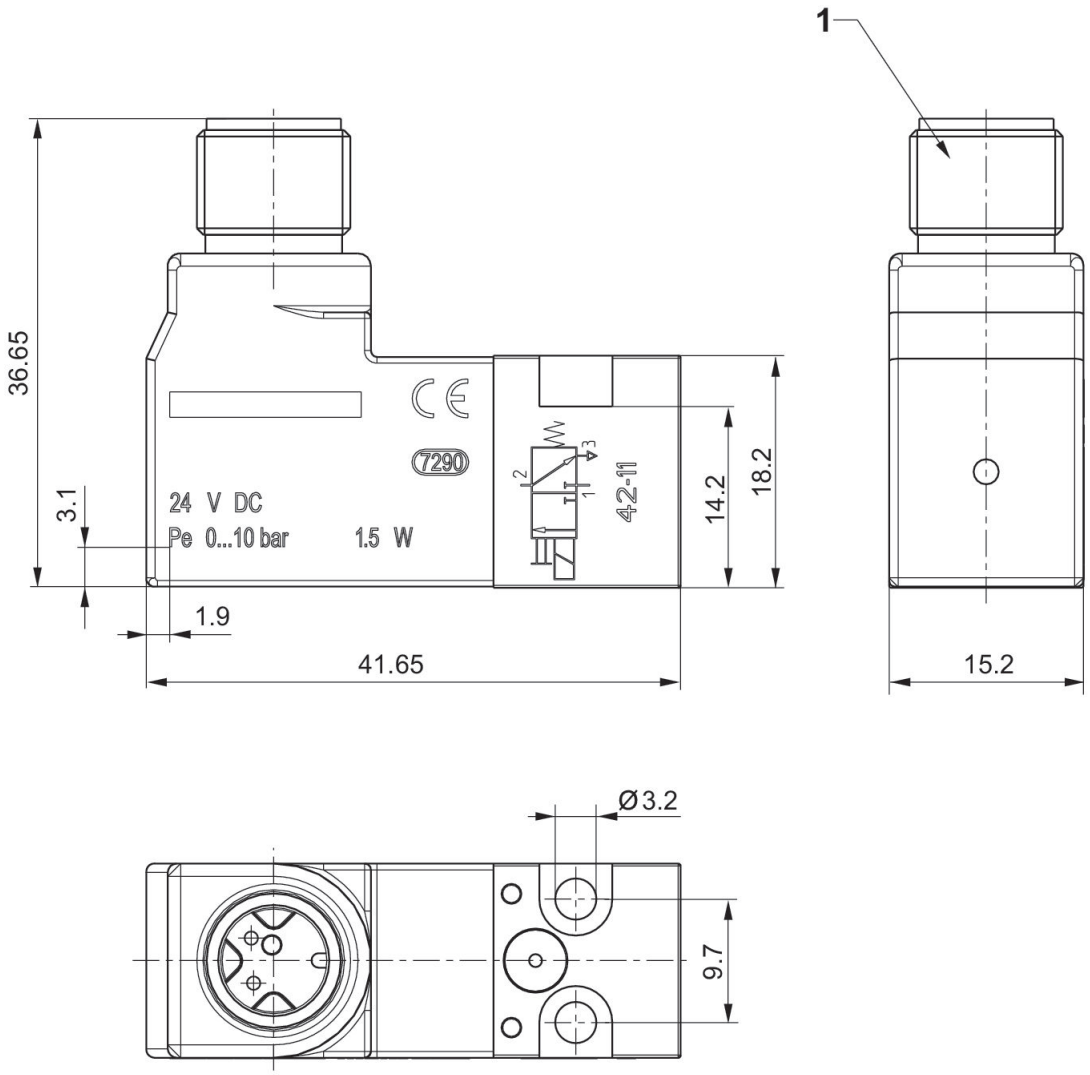
Activation: Electrically
Duty cycle: 100 %
Type: Poppet valve
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0 bar ... 10 bar



Valve function	Switching principle	port pneumatic input 1	Compressed air connection output	Compressed air connection	Operational voltage	Power consumption DC [W]	Voltage tolerance DC	Part No.
NC	3/2, with spring return	Base plate	Base plate	Base plate	24 V DC	1.5	-10 % / +15 %	R412013391
NC	3/2, with spring return	Base plate	Base plate	Base plate	24 V DC	1.5	-10 % / +10 %	R412019226

Manual override	Nominal flow Qn 1 to 2 [l/min]	Part No.
without detent	18	R412013391
without detent	18	R412019226

Dimensions in mm



1) Port for plug M12x1

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