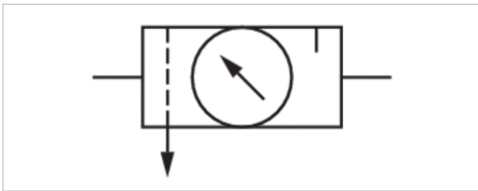


# Maintenance unit, 2-part, Series AS3-ACD

- G 3/8, G 1/2
- lockable
- for padlocks
- with pressure gauge
- suitable for ATEX



Version	2-in-1, Can be assembled into blocks
Parts	Filter pressure regulator, Lubricator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	3.56 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 116 psi
Pressure supply	single
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	2.71 fl.oz.
Type of filling	Semi-automatic oil filling during operation, Manual oil filling
Weight	See table below

## Technical data

Part No.	Port	Flow	Working pressure min./max.	Condensate drain
		Qn		
R412007298	G 3/8	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007299	G 3/8	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007300	G 3/8	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007304	G 3/8	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007305	G 3/8	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007306	G 3/8	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007307	G 1/2	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007308	G 1/2	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007309	G 1/2	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007313	G 1/2	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007314	G 1/2	3.56 Cv	24 ... 232 psi	fully automatic, open without pressure
R412007315	G 1/2	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Weight
R412007298	Polycarbonate	2.24 lbs

Part No.	Reservoir	Weight
R412007299	Polycarbonate	2.35 lbs
R412007300	Polycarbonate	2.35 lbs
R412007304	Die cast zinc	4.13 lbs
R412007305	Die cast zinc	4.23 lbs
R412007306	Die cast zinc	4.21 lbs
R412007307	Polycarbonate	2.24 lbs
R412007308	Polycarbonate	2.35 lbs
R412007309	Polycarbonate	2.35 lbs
R412007313	Die cast zinc	4.03 lbs
R412007314	Die cast zinc	4.13 lbs
R412007315	Die cast zinc	3.86 lbs

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 14.5$  psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

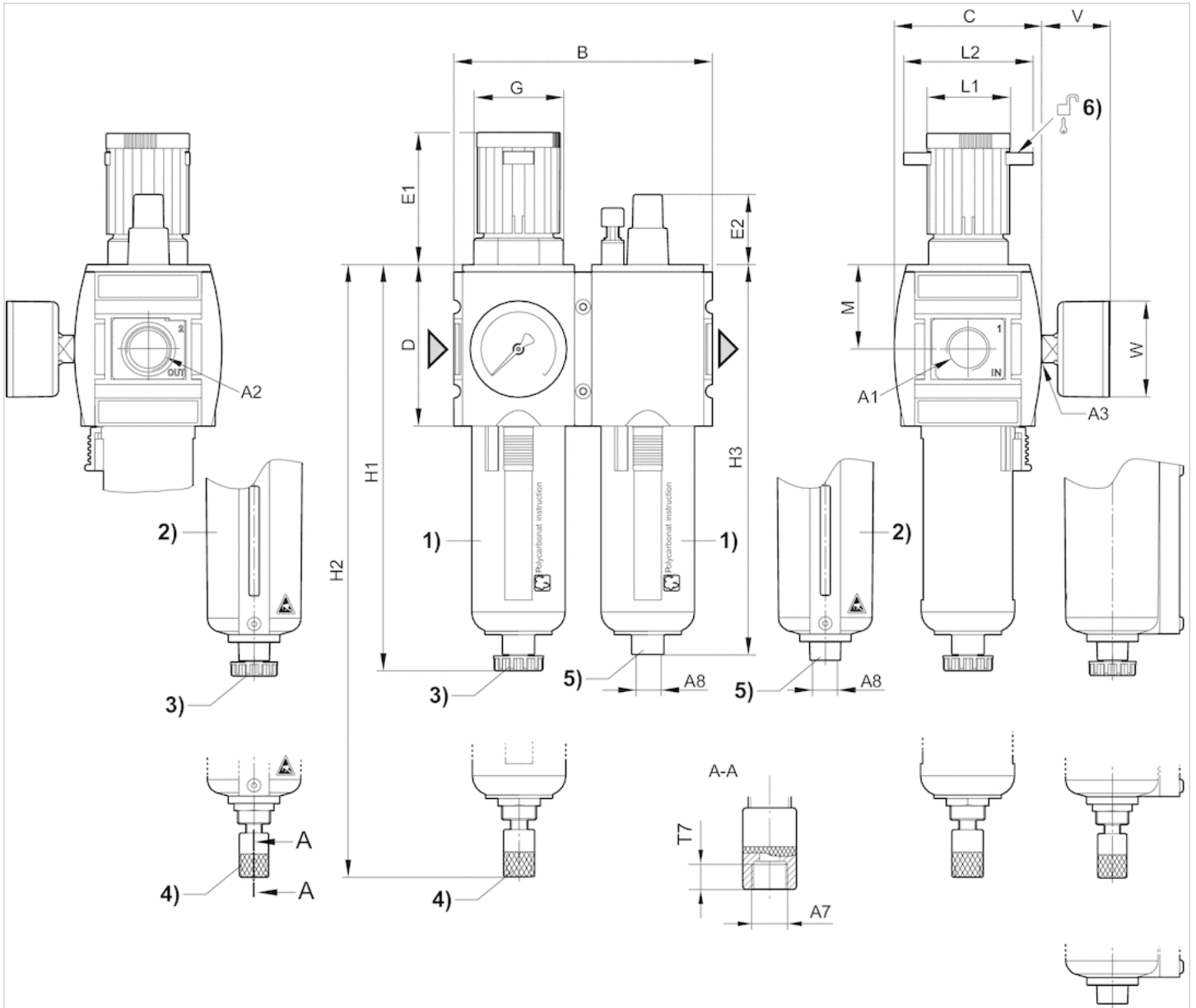
Compressed air class 6 : 7 : -

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Filter insert	Polyethylene

# Dimensions

## 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) Port for semi-automatic oil filling 6) Mounting option for padlocks, max. shackle Ø 8

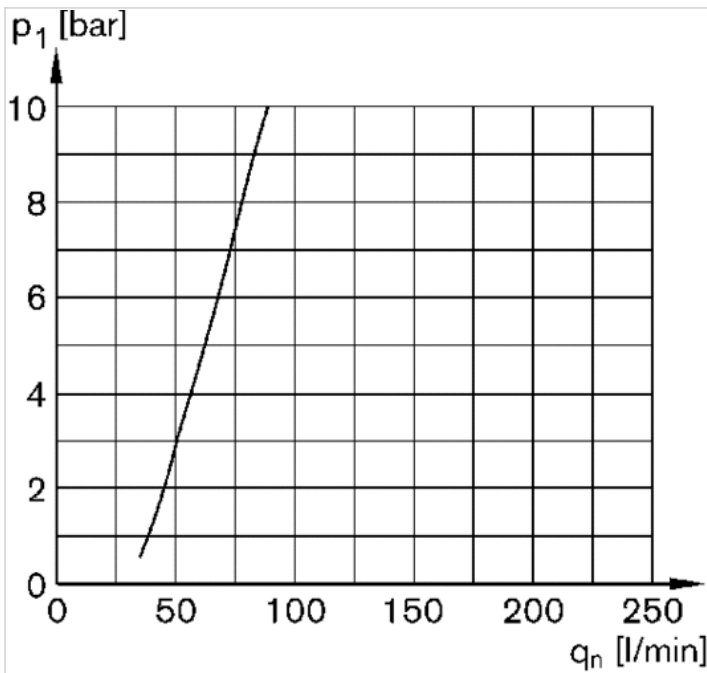
Dimensions in mm

A1	A2	A3	A7	A8	B	C	D	E1	E2	G	H1	H2	H3	M	L1	L2
G 3/8	G 3/8	G 1/4	G 1/8	G 1/8	126	74	80	63.5	27.5	M42x1,5	189.5	206	183	42.5	41	60
G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	G 1/8	126	74	80	63.5	27.5	M42x1,5	189.5	206	183	42.5	41
G 3/8	G 3/8	G 1/4	G 1/8	G 1/8	126	74	80	63.5	27.5	M42x1,5	189.5	206	183	42.5	41	60
G 1/2	G 1/2	G 1/4	G 1/8	G 1/8	126	74	80	63.5	27.5	M42x1,5	189.5	206	183	42.5	41	60

T7	V	W
8.5	33	50
60	8.5	33
8.5	33	50
8.5	33	50

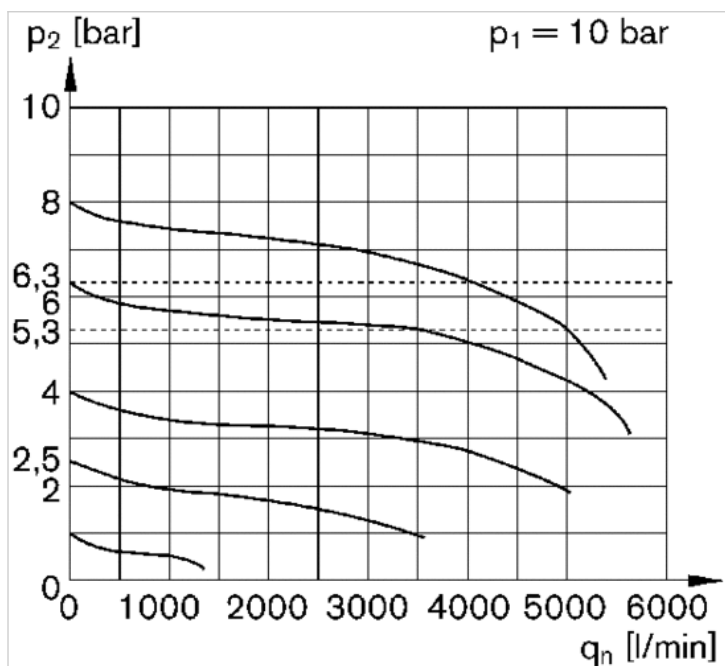
Diagrams

Lubricator activation margin



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

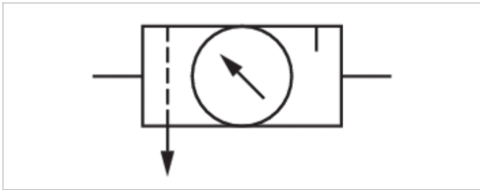
Flow rate characteristic (p2: 05 - 8 bar)



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

# Maintenance unit, 3-part, Series AS3- ACT

- G 3/8, G 1/2
- lockable
- for padlocks
- with pressure gauge
- suitable for ATEX



Version	3-part, Can be assembled into blocks
Parts	Pressure regulator, Filter, Lubricator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	3.56 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 116 psi
Pressure supply	single
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	2.71 fl.oz.
Type of filling	Semi-automatic oil filling during operation, Manual oil filling
Weight	See table below

## Technical data

Part No.	Port	Flow	Working pressure min./max.	Condensate drain
		Qn		
R412007318	G 3/8	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007319	G 3/8	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007320	G 3/8	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007324	G 3/8	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007325	G 3/8	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007326	G 3/8	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007327	G 1/2	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007328	G 1/2	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007329	G 1/2	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007333	G 1/2	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007334	G 1/2	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007335	G 1/2	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412007318	Polycarbonate	Polyamide	2.98 lbs

Part No.	Reservoir	Protective guard	Weight
R412007319	Polycarbonate	Polyamide	3.09 lbs
R412007320	Polycarbonate	Polyamide	3.09 lbs
R412007324	Die cast zinc	-	5.32 lbs
R412007325	Die cast zinc	-	5.36 lbs
R412007326	Die cast zinc	-	5.39 lbs
R412007327	Polycarbonate	Polyamide	2.98 lbs
R412007328	Polycarbonate	Polyamide	3.09 lbs
R412007329	Polycarbonate	Polyamide	3.09 lbs
R412007333	Die cast zinc	-	5.15 lbs
R412007334	Die cast zinc	-	5.22 lbs
R412007335	Die cast zinc	-	5.27 lbs

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 14.5$  psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

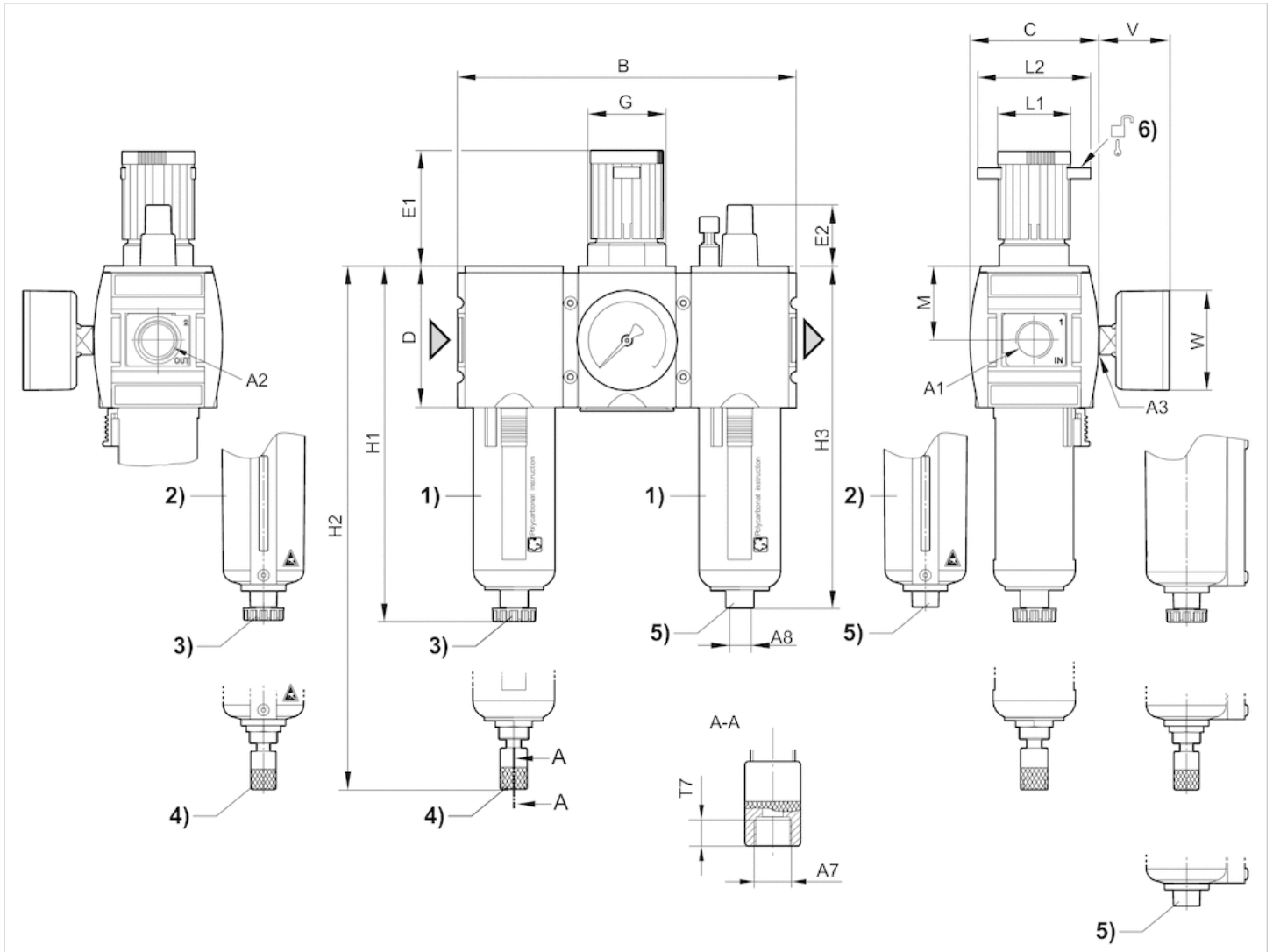
Compressed air class 6 : 7 : -

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Filter insert	Polyethylene

# Dimensions

## 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) Port for semi-automatic oil filling 6) Mounting option for padlocks, max. shackle Ø 8

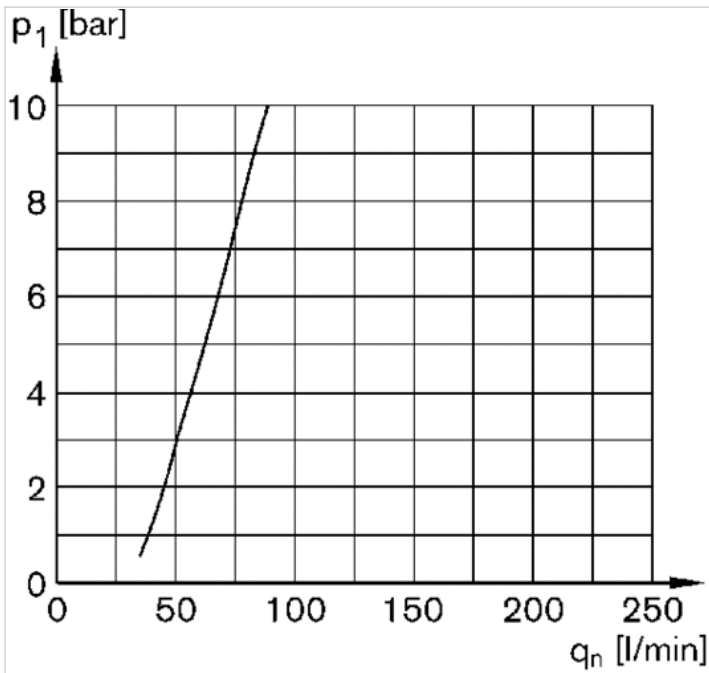
## Dimensions in mm

A1	A2	A3	A7	A8	B	C	D	E1	E2	G	H1	H2	H3	M	L1	L2	T7	V	W
G 3/8	G 3/8	G 1/4	G 1/8	G 1/8	189	74	80	63.5	27.5	M42x1,5	189.5	206	183	42.5	41	60	8.5	33	50
G 1/2	G 1/2	G 1/4	G 1/8	G 1/8	189	74	80	63.5	27.5	M42x1,5	189.5	206	183	42.5	41	60	8.5	33	50



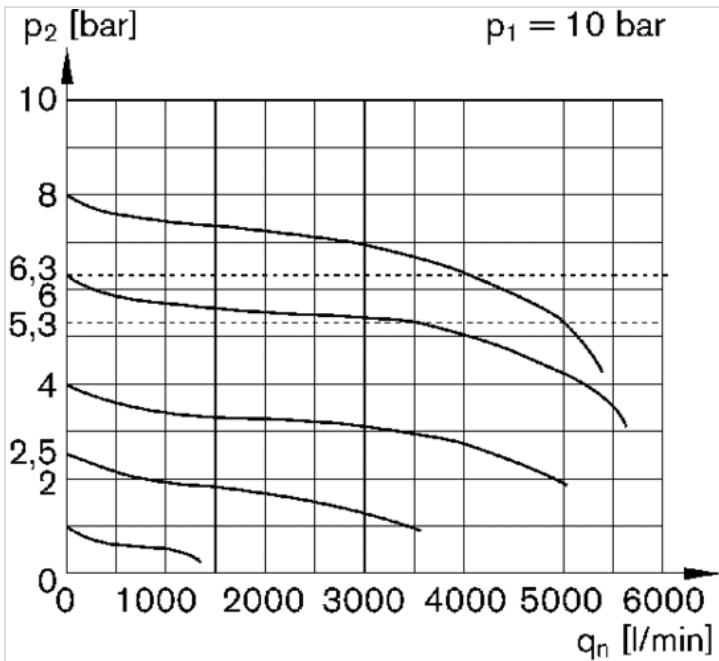
## Diagrams

### Lubricator activation margin



p1 = working pressure  
qn = nominal flow

### Flow rate characteristic (p2: 0.5 - 8 bar)



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

# Pressure regulator, Series AS3-RGS





- G 3/8, G 1/2
- Qn = 1.63-5.28 Cv
- Standard pressure regulator
- Activation Mechanical
- lockable
- for padlocks
- suitable for ATEX



Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Lock type	for padlocks
Pressure supply	single
Activation	Mechanical
Weight	See table below

## Technical data

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.
				Qn		
R412007101			G 3/8	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007103			G 3/8	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007105			G 3/8	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007107			G 3/8	4.37 Cv	8 ... 232 psi	8 ... 116 psi
R412007109			G 3/8	4.37 Cv	8 ... 232 psi	8 ... 145 psi
R412007111			G 3/8	3.56 Cv	8 ... 232 psi	8 ... 232 psi
R412007100		—	G 3/8	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007102		—	G 3/8	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007104		—	G 3/8	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007106		—	G 3/8	4.37 Cv	8 ... 232 psi	8 ... 116 psi
R412007108		—	G 3/8	4.37 Cv	8 ... 232 psi	8 ... 145 psi
R412007110		—	G 3/8	3.56 Cv	8 ... 232 psi	8 ... 232 psi
R412007113			G 1/2	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007115			G 1/2	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007117			G 1/2	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007119			G 1/2	5.28 Cv	8 ... 232 psi	8 ... 116 psi
R412007121			G 1/2	5.28 Cv	8 ... 232 psi	8 ... 145 psi
R412007123			G 1/2	4.07 Cv	8 ... 232 psi	8 ... 232 psi
R412007112		—	G 1/2	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007114		—	G 1/2	4.67 Cv	2 ... 232 psi	2 ... 29 psi

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.
				Qn		
R412007116		—	G 1/2	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007118		—	G 1/2	5.28 Cv	8 ... 232 psi	8 ... 116 psi
R412007120		—	G 1/2	5.28 Cv	8 ... 232 psi	8 ... 145 psi
R412007122		—	G 1/2	4.07 Cv	8 ... 232 psi	8 ... 232 psi

Part No.	Pressure gauge	Weight	
R412007101	with pressure gauge	1.32 lbs	1)
R412007103	with pressure gauge	1.32 lbs	1)
R412007105	with pressure gauge	1.32 lbs	1)
R412007107	with pressure gauge	1.32 lbs	1)
R412007109	with pressure gauge	1.32 lbs	1)
R412007111	with pressure gauge	1.32 lbs	1)
R412007100	-	1.16 lbs	2)
R412007102	-	1.16 lbs	2)
R412007104	-	1.16 lbs	2)
R412007106	-	1.16 lbs	2)
R412007108	-	1.16 lbs	2)
R412007110	-	1.16 lbs	2)
R412007113	with pressure gauge	1.32 lbs	1)
R412007115	with pressure gauge	1.32 lbs	1)
R412007117	with pressure gauge	1.32 lbs	1)
R412007119	with pressure gauge	1.32 lbs	1)
R412007121	with pressure gauge	1.32 lbs	1)
R412007123	with pressure gauge	1.32 lbs	1)
R412007112	-	1.16 lbs	2)
R412007114	-	1.16 lbs	2)
R412007116	-	1.16 lbs	2)
R412007118	-	1.16 lbs	2)
R412007120	-	1.16 lbs	2)
R412007122	-	1.16 lbs	2)

Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 14.5$  psi

- 1) Pressure gauge enclosed separately, Suitable for use in Ex zones 1, 2, 21, 22
- 2) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Relieving exhaust ( $\leq 4.35$  psi over set pressure)

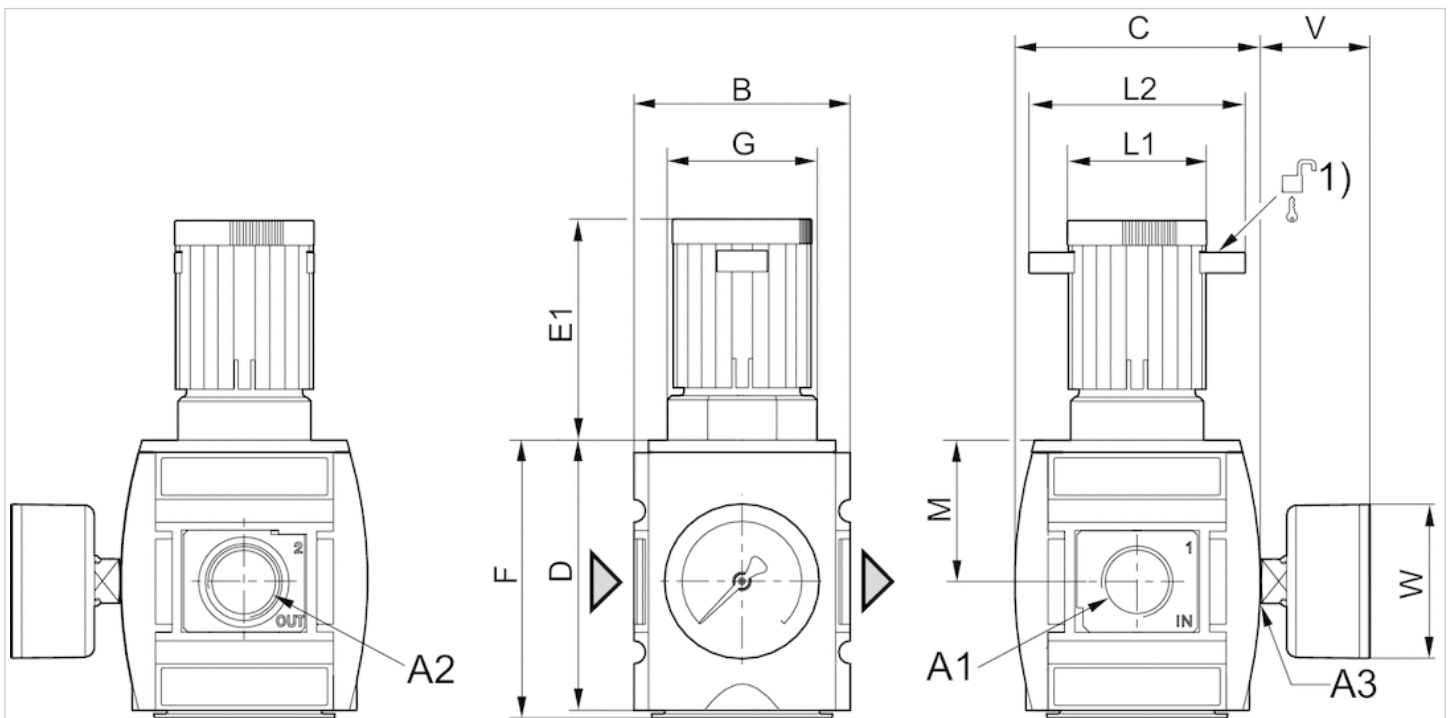
With rear exhaust ( $> 43.5$  psi )

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



A1 = input

A2 = output

A3 = pressure gauge connection

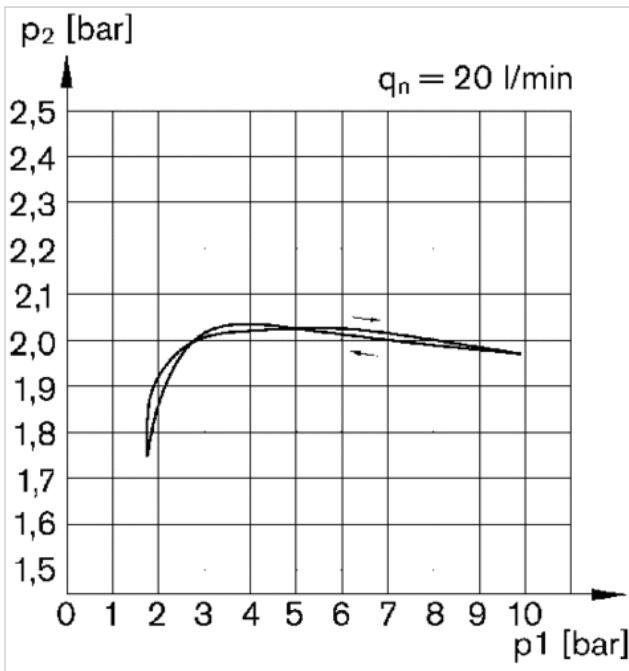
1) Mounting option for padlocks, max. shackle Ø 8

### Dimensions in mm

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

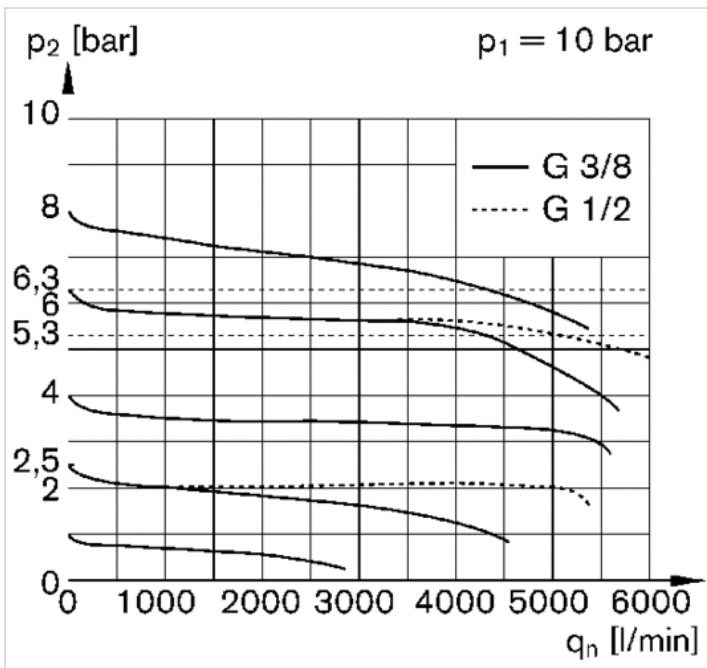
## Diagrams

### Pressure characteristics curve Standard version



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

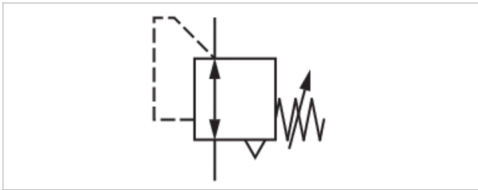
### Flow rate characteristic ( $p_2$ : 0.5 - 8 bar)



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

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

- G 1/2
- Qn = 5.28 Cv
- Standard pressure regulator
- Activation Mechanical
- lockable
- with E11 locking



Parts	Pressure regulator
Mounting orientation	Any
Working pressure min./max.	8 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks with relieving air exhaust
Regulator function	Diaphragm-type pressure regulator, Can be assembled into blocks with relieving air exhaust
Adjustment range min./max.	8 ... 145 psi
Lock type	with E11 locking
Pressure supply	single
Activation	Mechanical
Weight	1.16 lbs

## Technical data

Part No.	Port	Flow
		Qn
R412007099	G 1/2	5.28 Cv

Order pressure gauge separately, Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The E11 locking is delivered without a key (see accessories for keys).

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Relieving exhaust (≤ 4.35 psi over set pressure)

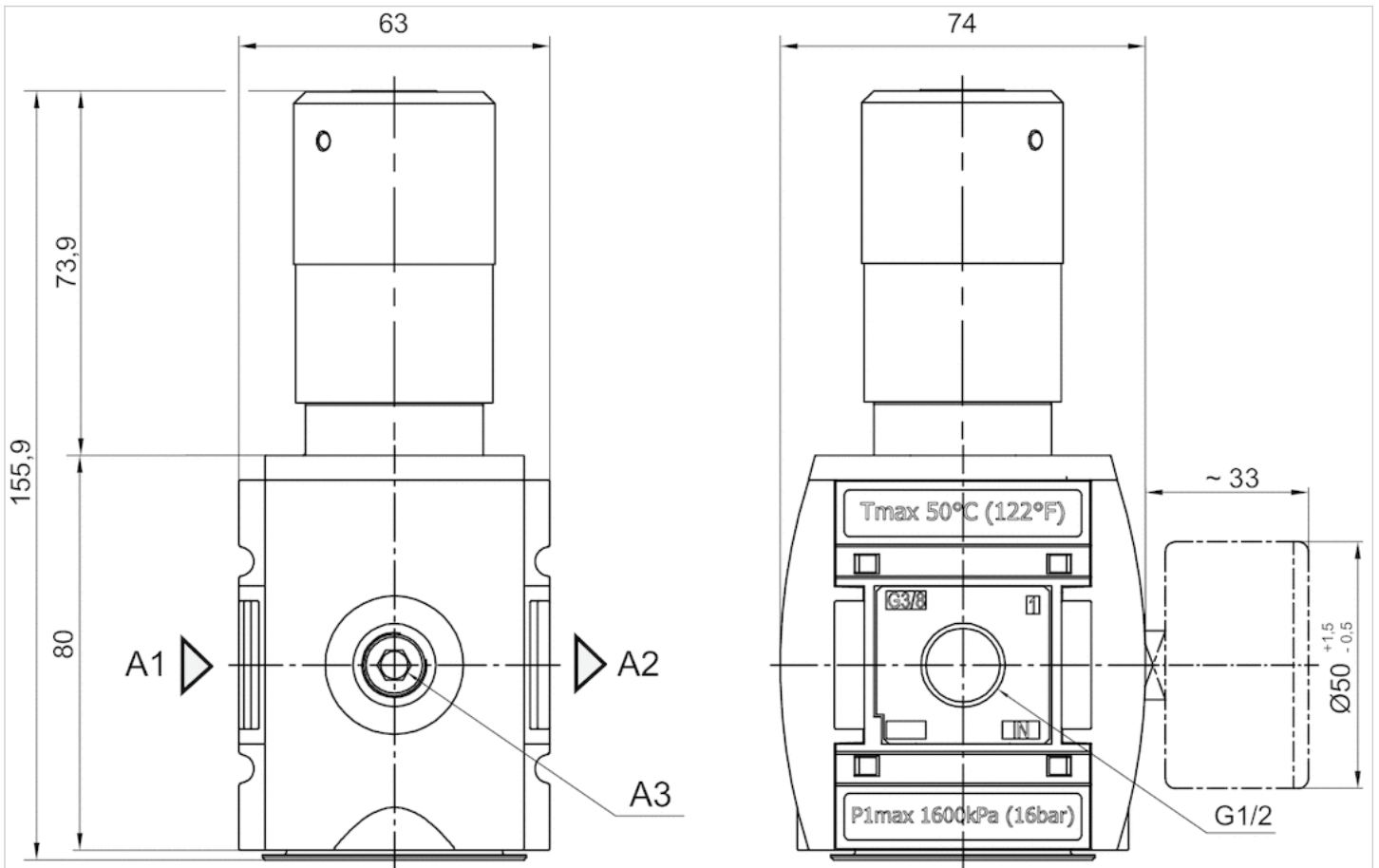
With rear exhaust (> 43.5 psi )

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

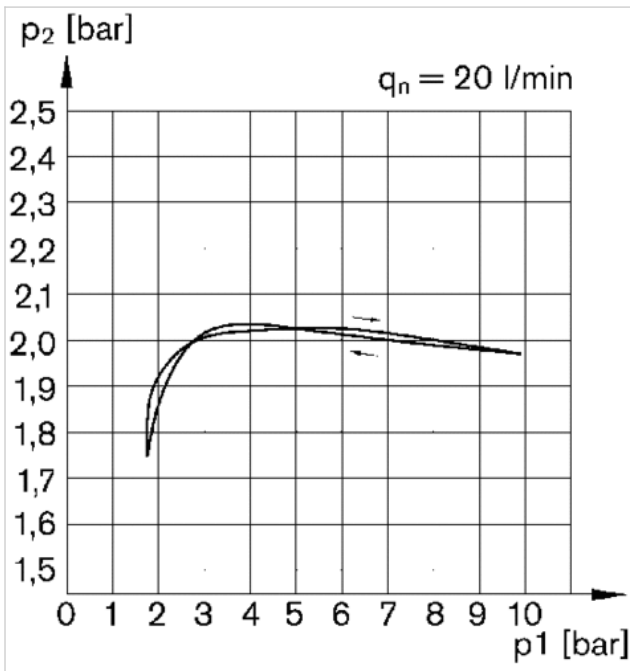
### Dimensions



- A1 = input
- A2 = output
- A3 = pressure gauge connection

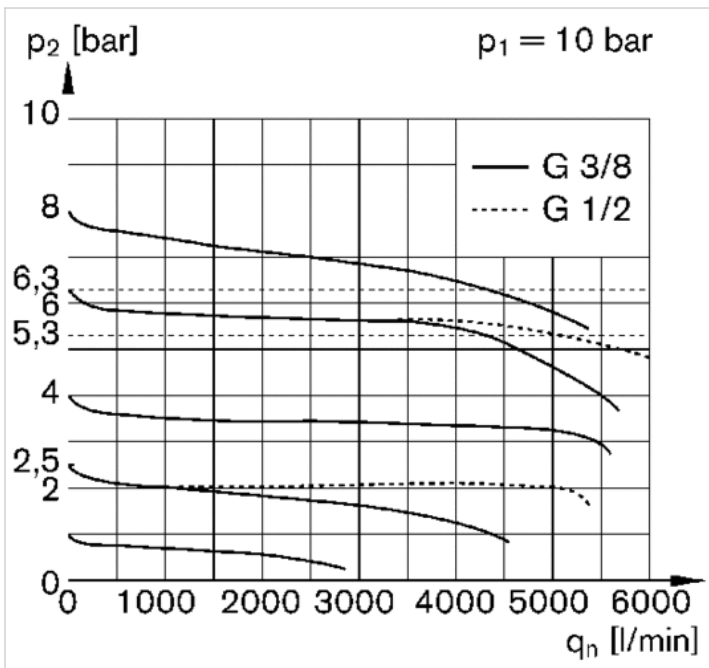
## Diagrams

### Pressure characteristics curve Standard version



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

### Flow rate characteristic ( $p_2$ : 0.5 - 8 bar)

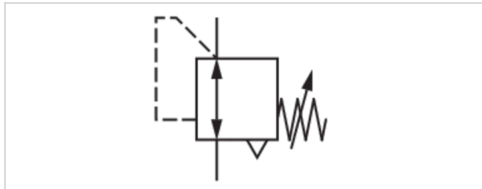


$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow



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

- G 3/8, G 1/2
- Qn = 1.63-5.28 Cv
- Standard pressure regulator
- Activation Mechanical
- with continuous pressure supply
- lockable
- for padlocks
- suitable for ATEX



Parts	Pressure regulator with continuous pressure supply
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks with relieving air exhaust
Regulator function	See table below
Adjustment range min./max.	See table below
Lock type	for padlocks
Pressure supply	double
Activation	Mechanical
Weight	1.16 lbs

## Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Qn		
R412007124	G 3/8	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007125	G 3/8	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007126	G 3/8	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007127	G 3/8	4.37 Cv	8 ... 232 psi	8 ... 116 psi
R412007128	G 3/8	4.37 Cv	8 ... 232 psi	8 ... 145 psi
R412007129	G 3/8	3.56 Cv	8 ... 232 psi	8 ... 232 psi
R412007130	G 1/2	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007131	G 1/2	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007132	G 1/2	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007133	G 1/2	5.28 Cv	8 ... 232 psi	8 ... 116 psi
R412007134	G 1/2	5.28 Cv	8 ... 232 psi	8 ... 145 psi
R412007135	G 1/2	4.07 Cv	8 ... 232 psi	8 ... 232 psi

Part No.	Max. pressure gauge Ø in blocked state
R412007124	50 mm

Part No.	Max. pressure gauge Ø in blocked state
R412007125	50 mm
R412007126	50 mm
R412007127	50 mm
R412007128	50 mm
R412007129	50 mm
R412007130	50 mm
R412007131	50 mm
R412007132	50 mm
R412007133	50 mm
R412007134	50 mm
R412007135	50 mm

Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 14.5$  psi

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

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

Relieving exhaust ( $\leq 4.35$  psi over set pressure)

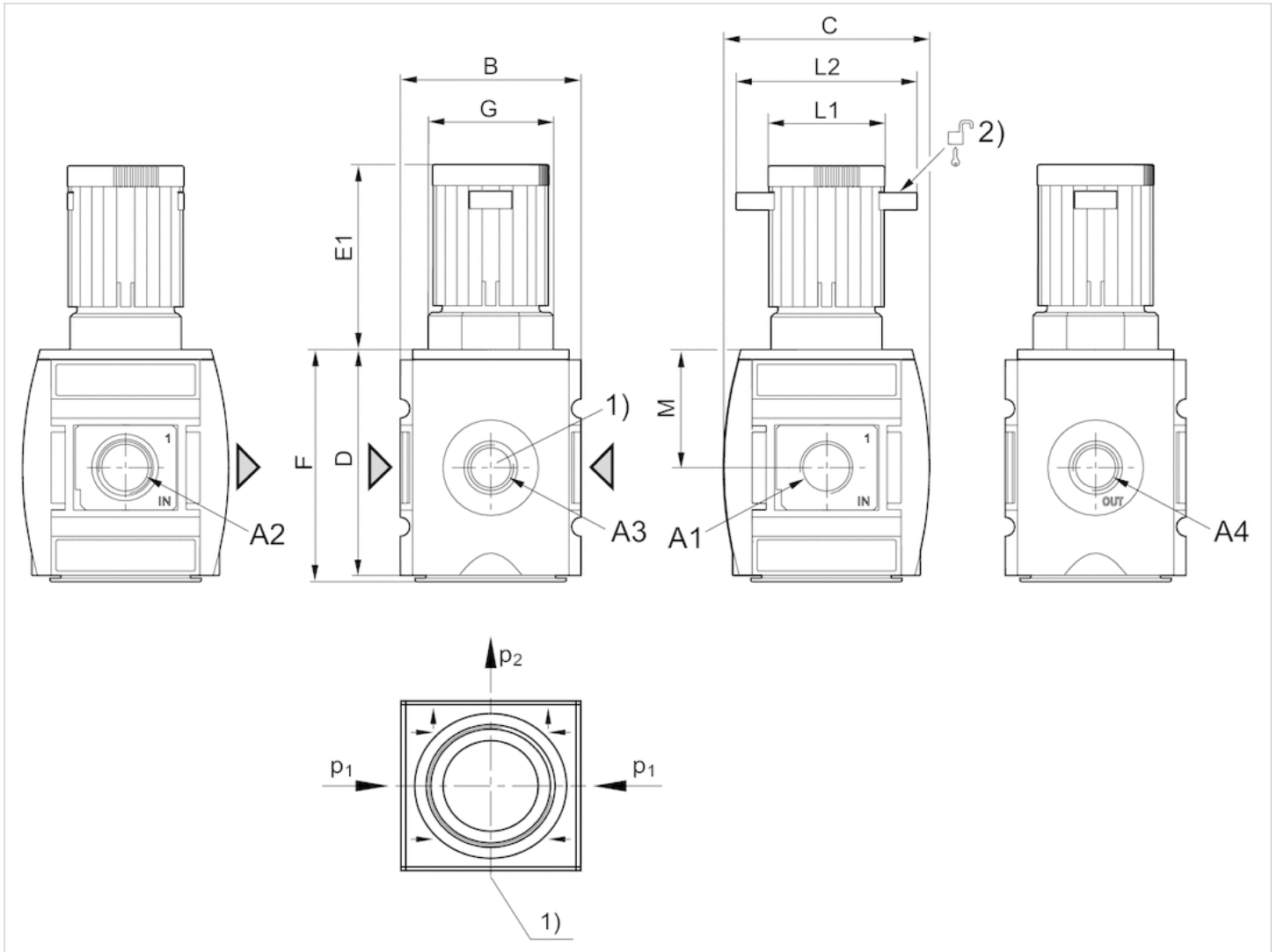
With rear exhaust ( $> 43.5$  psi )

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



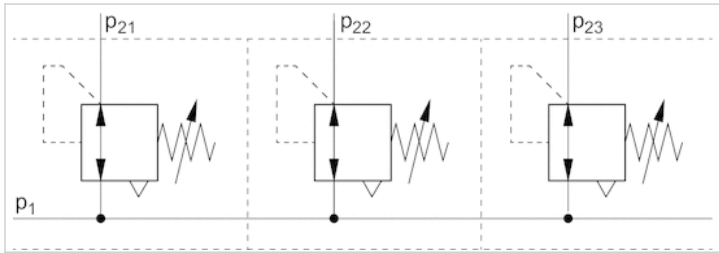
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = output
- 1) Pressure gauge connection
- 2) Mounting option for padlocks, max. shackle Ø 8

### Dimensions in mm

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

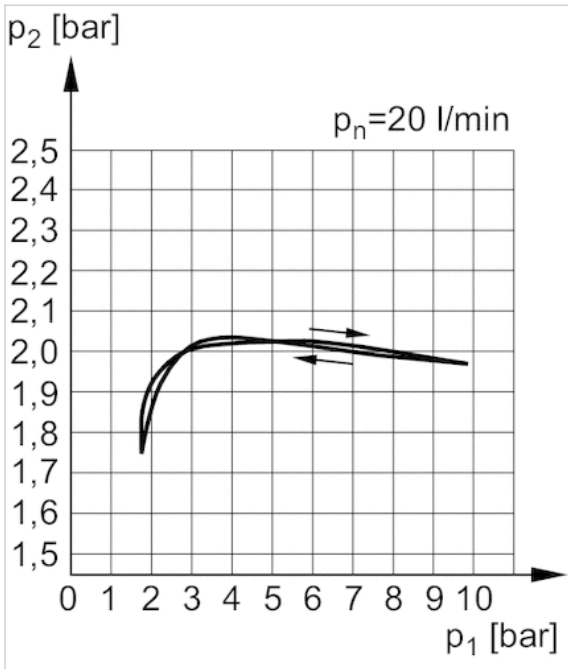
# Diagrams

## Application example



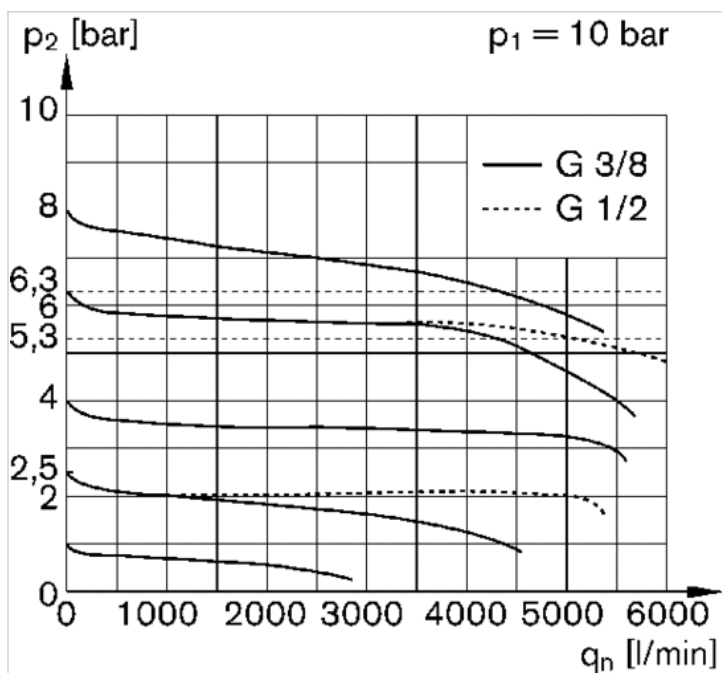
$p_1$  = working pressure

## Pressure characteristics curve



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

Flow rate characteristic (p2: 05 - 8 bar)



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




























# Precision pressure regulator, Series AS3-RGP




- G 3/8, G 1/2
- Qn = 1.63-5.28 Cv
- Precision pressure regulator
- Activation Mechanical
- lockable
- for padlocks
- suitable for ATEX



Parts	Precision pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Lock type	for padlocks
Pressure supply	single
Activation	Mechanical
Internal air consumption q,max.	0 Cv
Weight	See table below

## Technical data

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.
				Qn		
R412007136		—	G 3/8	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007137			G 3/8	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007138		—	G 3/8	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007139			G 3/8	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007140		—	G 3/8	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007141			G 3/8	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007142		—	G 3/8	4.37 Cv	8 ... 232 psi	8 ... 116 psi
R412007143			G 3/8	4.37 Cv	8 ... 232 psi	8 ... 116 psi
R412007144		—	G 3/8	4.37 Cv	8 ... 232 psi	8 ... 145 psi
R412007145			G 3/8	4.37 Cv	8 ... 232 psi	8 ... 145 psi
R412007148		—	G 1/2	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007149			G 1/2	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007150		—	G 1/2	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007151			G 1/2	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007152		—	G 1/2	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007153			G 1/2	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007154		—	G 1/2	5.28 Cv	8 ... 232 psi	8 ... 116 psi
R412007155			G 1/2	5.28 Cv	8 ... 232 psi	8 ... 116 psi

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.
				Qn		
R412007156		—	G 1/2	5.28 Cv	8 ... 232 psi	8 ... 145 psi
R412007157			G 1/2	5.28 Cv	8 ... 232 psi	8 ... 145 psi

Part No.	Pressure gauge	Weight	
R412007136	-	1.16 lbs	1)
R412007137	with pressure gauge	1.32 lbs	2)
R412007138	-	1.16 lbs	1)
R412007139	with pressure gauge	1.32 lbs	2)
R412007140	-	1.16 lbs	1)
R412007141	with pressure gauge	1.32 lbs	2)
R412007142	-	1.16 lbs	1)
R412007143	with pressure gauge	1.32 lbs	2)
R412007144	-	1.16 lbs	1)
R412007145	with pressure gauge	1.32 lbs	2)
R412007148	-	1.16 lbs	1)
R412007149	with pressure gauge	1.32 lbs	2)
R412007150	-	1.16 lbs	1)
R412007151	with pressure gauge	1.32 lbs	2)
R412007152	-	1.16 lbs	1)
R412007153	with pressure gauge	1.32 lbs	2)
R412007154	-	1.16 lbs	1)
R412007155	with pressure gauge	1.32 lbs	2)
R412007156	-	1.16 lbs	1)
R412007157	with pressure gauge	1.32 lbs	2)

Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 14.5$  psi

1) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

2) Pressure gauge enclosed separately, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Recommended pre-filter: 5  $\mu$ m

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

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

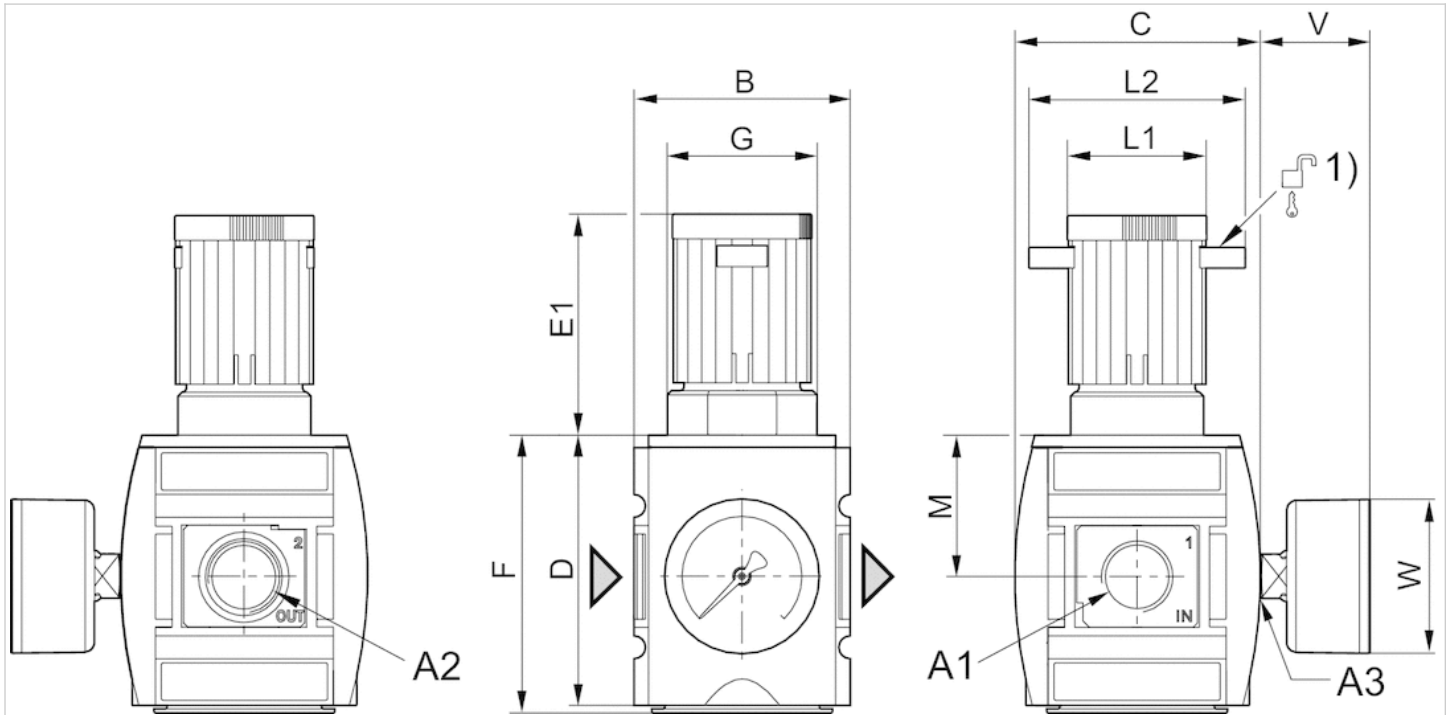
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



A1 = input

A2 = output

A3 = pressure gauge connection

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

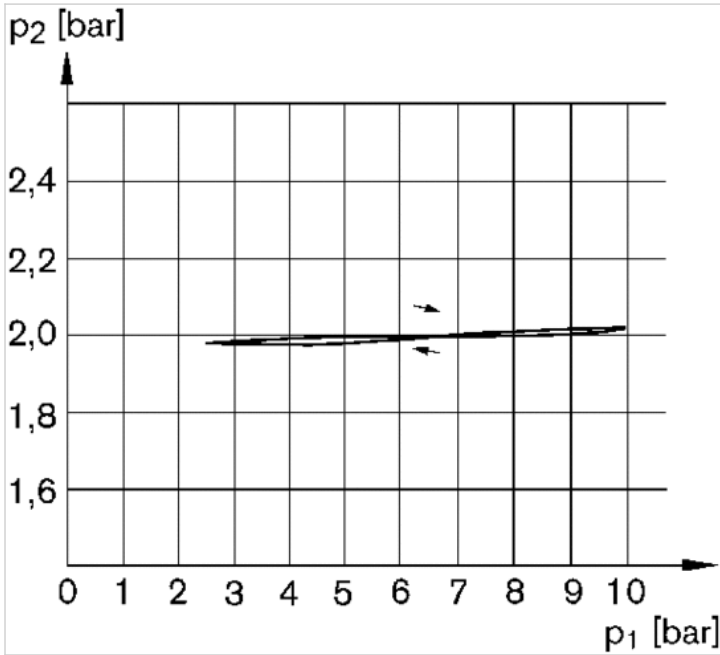
### Dimensions in mm

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



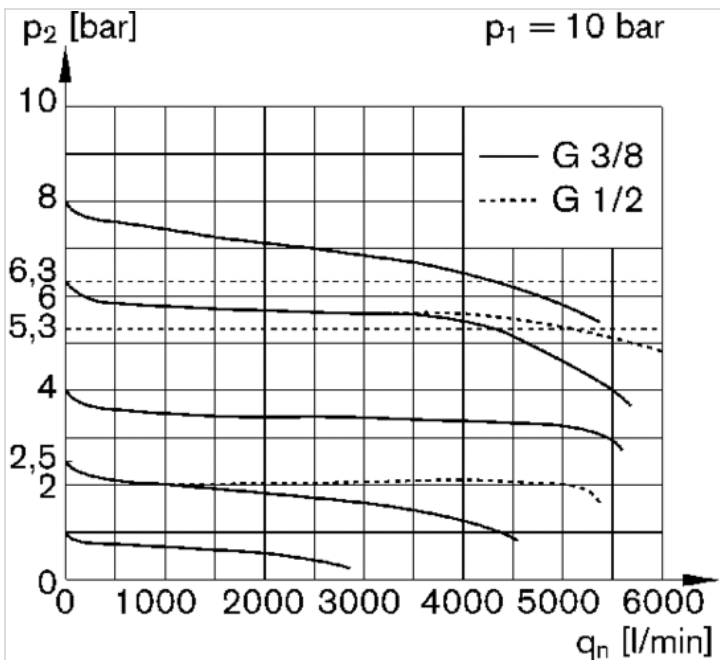
# Diagrams

## Pressure characteristics curve



p1 = working pressure  
 p2 = secondary pressure

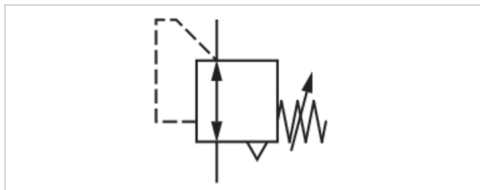
## Flow rate characteristic (p2: 0.5 - 8 bar)



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

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

- G 1/2
- Qn = 5.08 Cv
- Precision pressure regulator
- Activation Mechanical
- lockable
- with E11 locking



Parts	Precision pressure regulator
Mounting orientation	Any
Working pressure min./max.	3 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks with relieving air exhaust
Regulator function	Diaphragm-type pressure regulator, Can be assembled into blocks with relieving air exhaust
Adjustment range min./max.	3 ... 58 psi
Lock type	with E11 locking
Pressure supply	single
Activation	Mechanical
Internal air consumption q,max.	0 Cv
Weight	1.16 lbs

## Technical data

Part No.	Port	Flow
		Qn
R412007158	G 1/2	5.08 Cv

Order pressure gauge separately, Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Recommended pre-filter: 5 μm

The E11 locking is delivered without a key (see accessories for keys).

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

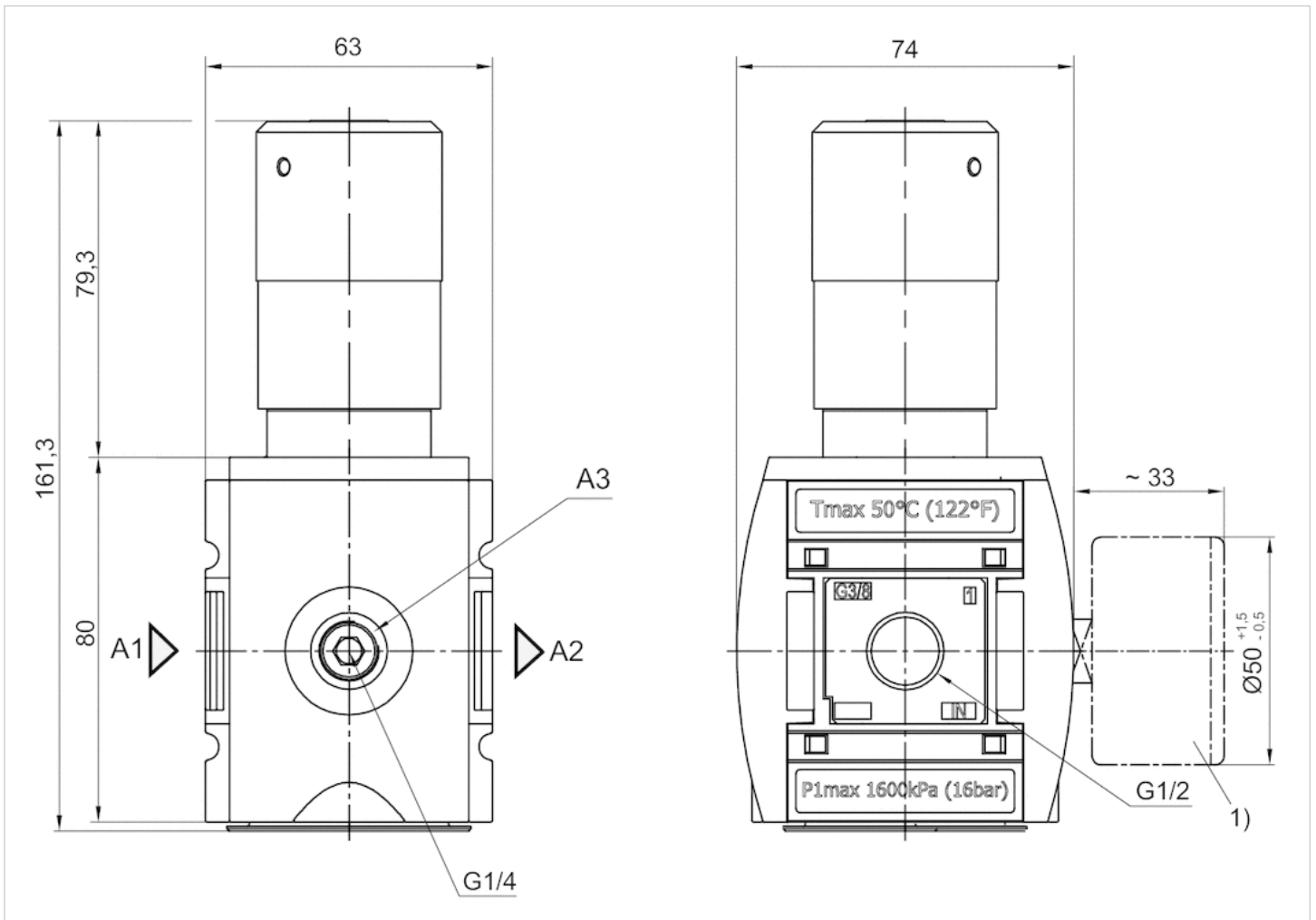
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

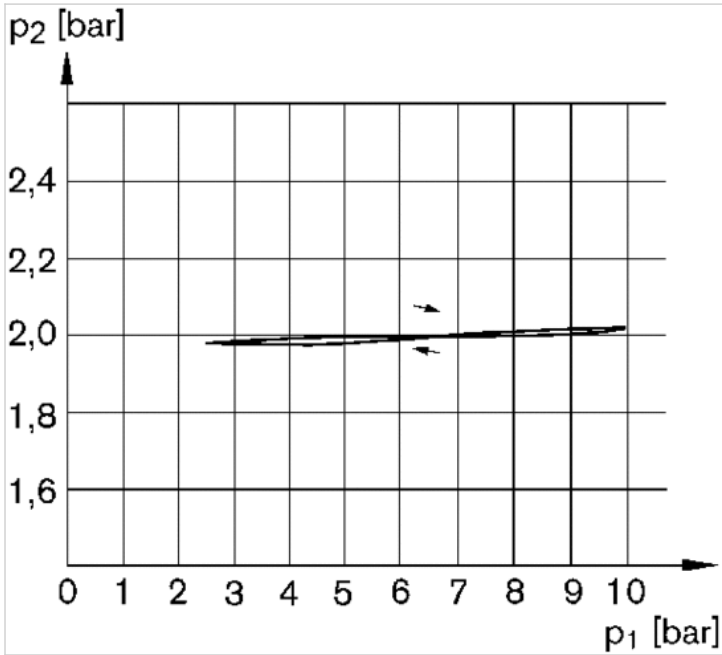
### Dimensions



1) Order pressure gauge separately

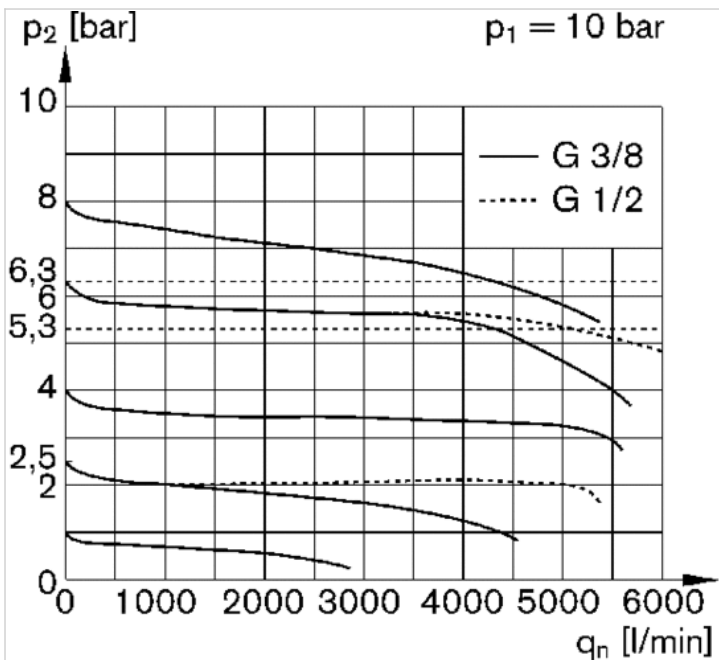
## Diagrams

### Pressure characteristics curve



p1 = working pressure  
p2 = secondary pressure

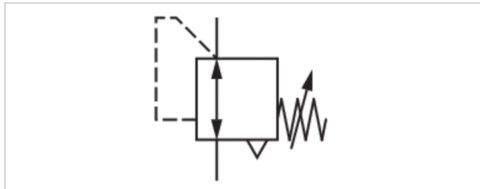
### Flow rate characteristic (p2: 0.5 - 8 bar)



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

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

- G 3/8, G 1/2
- Qn = 1.63-5.28 Cv
- Precision pressure regulator
- Activation Mechanical
- with continuous pressure supply
- lockable
- for padlocks
- suitable for ATEX



## Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Regulator type

Regulator function

Adjustment range min./max.

Lock type

Pressure supply

Activation

Internal air consumption q,max.

Weight

Precision pressure regulator with continuous pressure supply

Any

suitable for ATEX

See table below

14 ... 122 °F

14 ... 122 °F

Compressed air, Neutral gases

Diaphragm-type pressure regulator, Can be assembled into blocks

with relieving air exhaust

See table below

for padlocks

double

Mechanical

0 Cv

1.16 lbs

## Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Qn		
R412007160	G 3/8	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007161	G 3/8	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007162	G 3/8	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007163	G 3/8	4.37 Cv	8 ... 232 psi	8 ... 116 psi
R412007164	G 3/8	4.37 Cv	8 ... 232 psi	8 ... 145 psi
R412007166	G 1/2	1.63 Cv	2 ... 232 psi	2 ... 14 psi
R412007167	G 1/2	4.67 Cv	2 ... 232 psi	2 ... 29 psi
R412007168	G 1/2	5.08 Cv	3 ... 232 psi	3 ... 58 psi
R412007169	G 1/2	5.28 Cv	8 ... 232 psi	8 ... 116 psi
R412007170	G 1/2	5.28 Cv	8 ... 232 psi	8 ... 145 psi

Part No.	Max. pressure gauge Ø in blocked state
R412007160	50 mm
R412007161	50 mm
R412007162	50 mm

Part No.	Max. pressure gauge Ø in blocked state
R412007163	50 mm
R412007164	50 mm
R412007166	50 mm
R412007167	50 mm
R412007168	50 mm
R412007169	50 mm
R412007170	50 mm

Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 14.5$  psi

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Recommended pre-filter: 5 µm

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

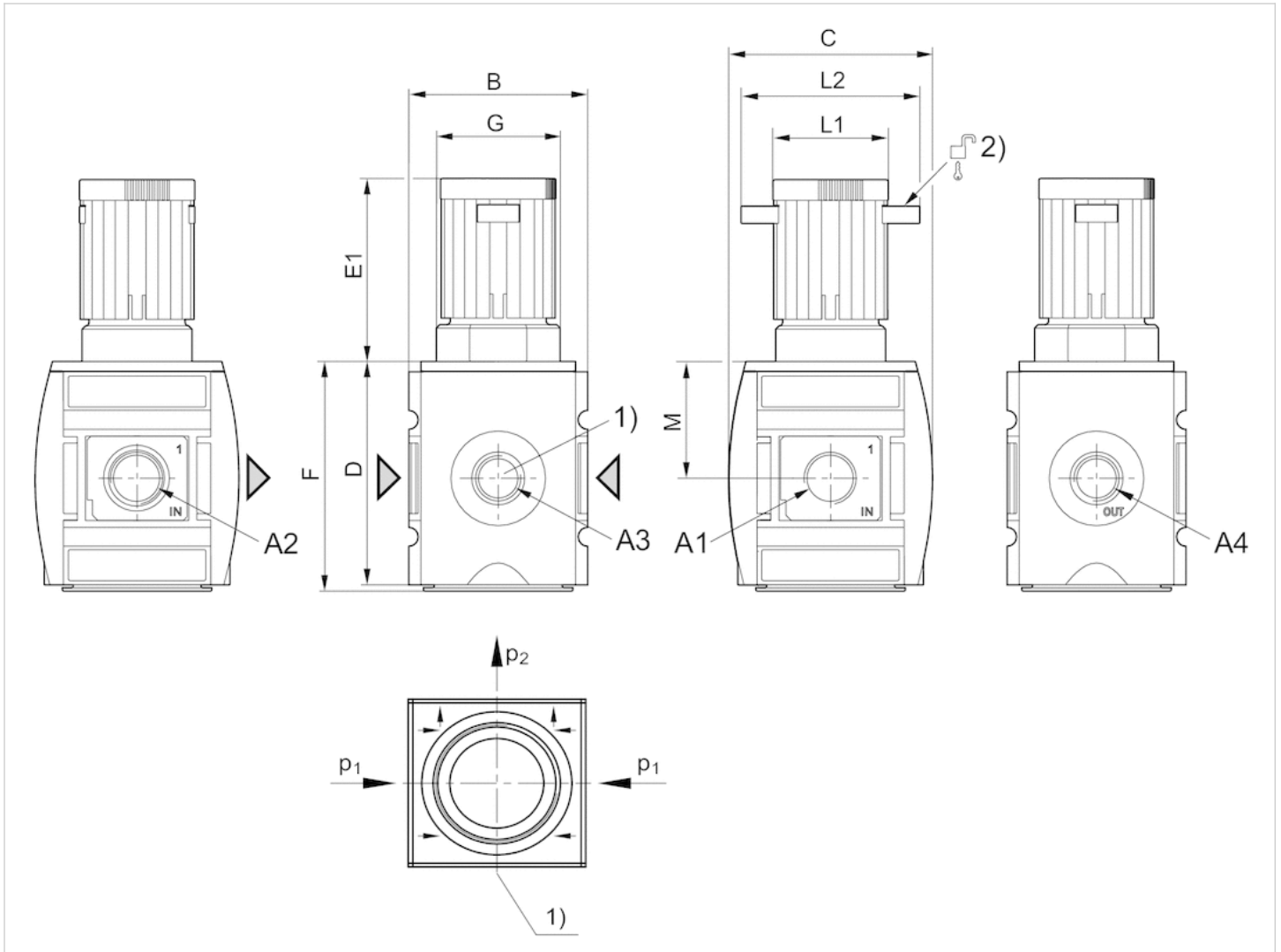
Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



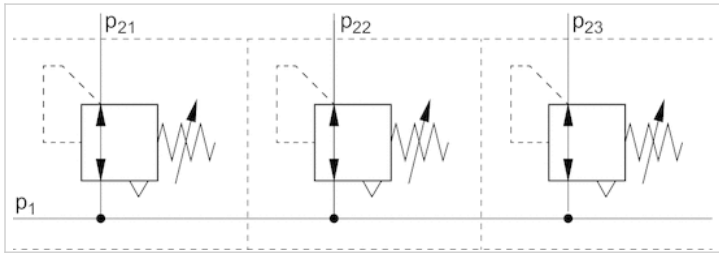
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = output
- 1) Pressure gauge connection
- 2) Mounting option for padlocks, max. shackle Ø 8

### Dimensions in mm

G 1/2	G 1/4	G 3/8	63	74	80	63.5	82	M42x1,5	41	60	42.5	R412007168
G 3/8	G 3/8	G 1/4	G 3/8	63	74	80	63.5	82	M42x1,5	41	60	42.5
G 1/2	G 1/2	G 1/4	G 3/8	63	74	80	63.5	82	M42x1,5	41	60	42.5

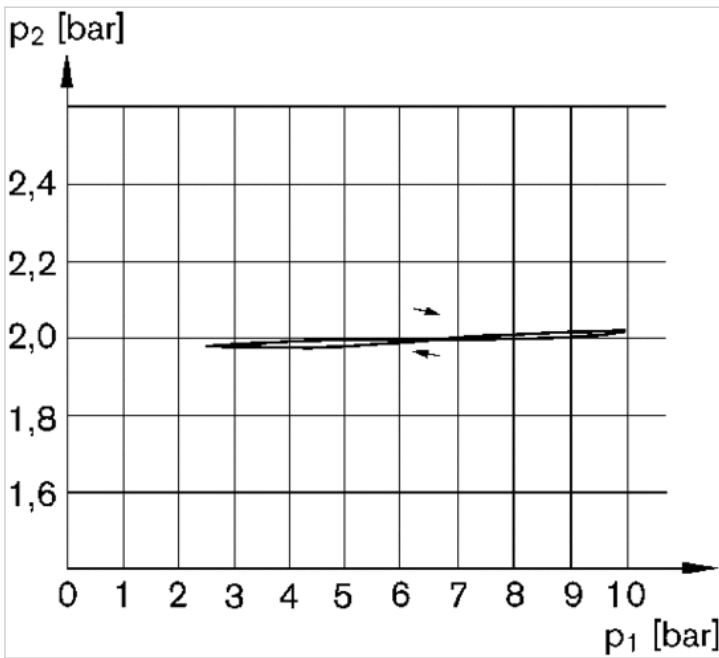
# Diagrams

## Application example



$p_1$  = working pressure

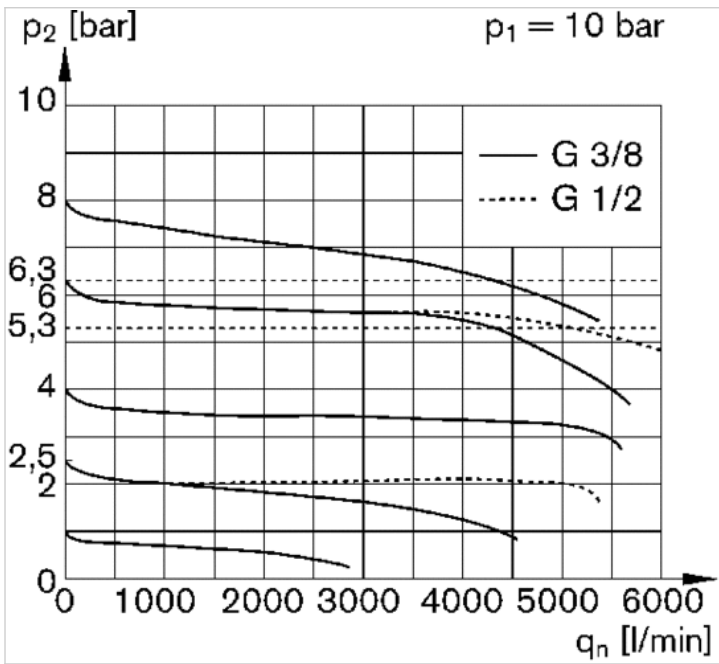
## Pressure characteristics curve



$p_1$  = working pressure  
 $p_2$  = secondary pressure



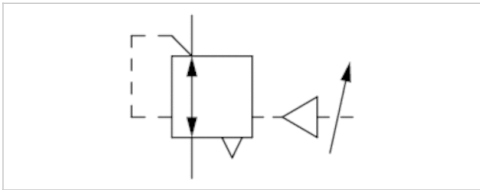
Flow rate characteristic (p2: 05 - 8 bar)



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

# Pressure regulator, Series AS3-RGS

- G 3/8, G 1/2
- $Q_n = 6.61 \text{ Cv}$
- Standard pressure regulator
- Activation Pneumatically



Parts	Pressure regulator
Mounting orientation	Any
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 232 psi
Pressure supply	single
Activation	Pneumatically
Weight	1.28 lbs

## Technical data

Part No.	Port	Flow
		$Q_n$
R412007094	G 3/8	6.61 Cv
R412007095	G 1/2	6.61 Cv

Control pressure: see diagram, Nominal flow  $Q_n$  with secondary pressure  $p_2 = 87 \text{ psi}$  at  $\Delta p = 14.5 \text{ psi}$

Order pressure gauge separately

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Relieving exhaust ( $\leq 4.35 \text{ psi}$  over set pressure)

With rear exhaust ( $> 43.5 \text{ psi}$  )

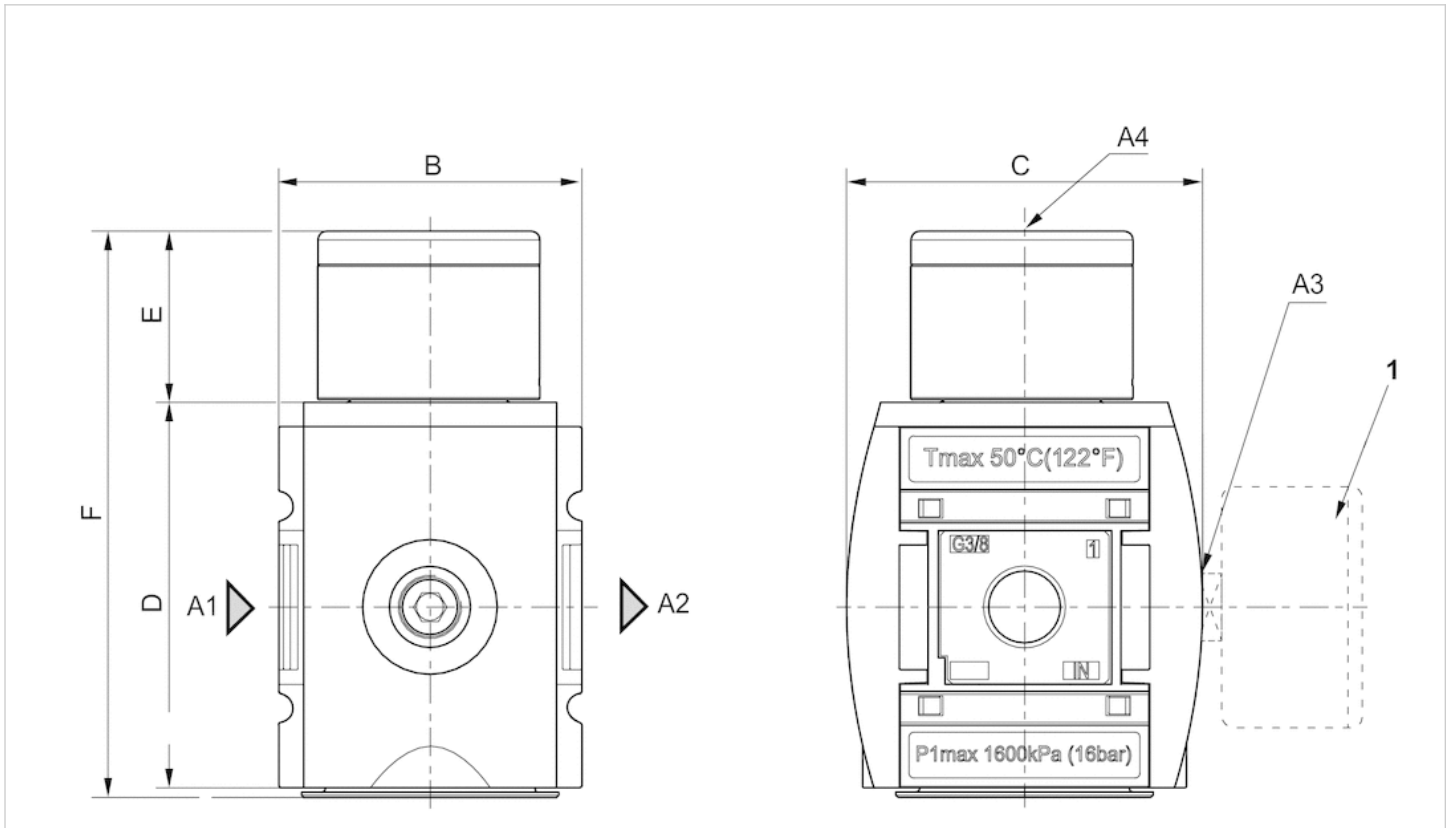
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene

Material	
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



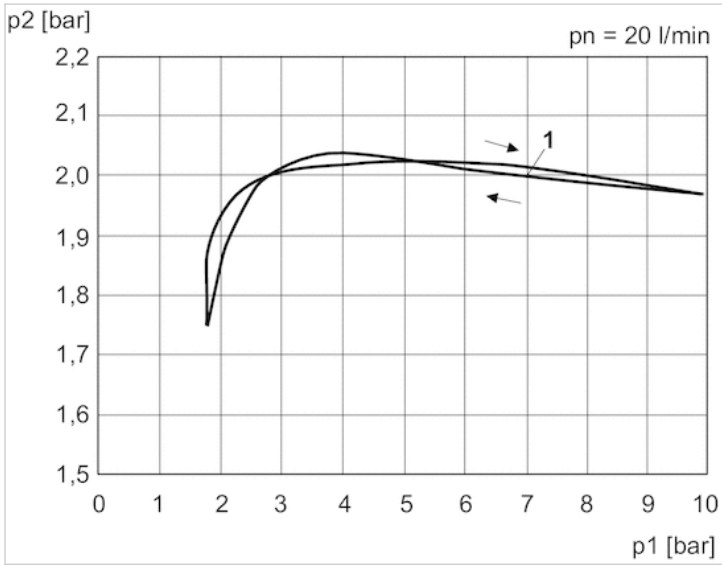
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = control pressure connection
- 1) Order pressure gauge separately

### Dimensions in mm

A1	A2	A3	A4	B	C	D	E	F
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	39.25	121
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	39.25	121

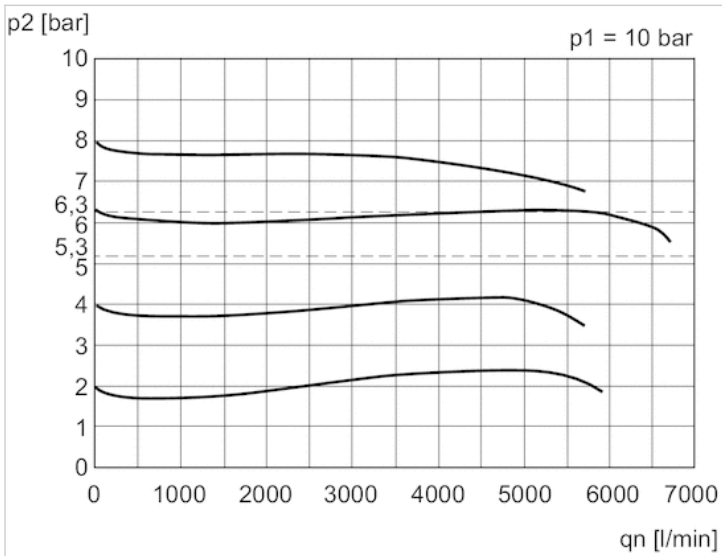
# Diagrams

## Pressure characteristics curve



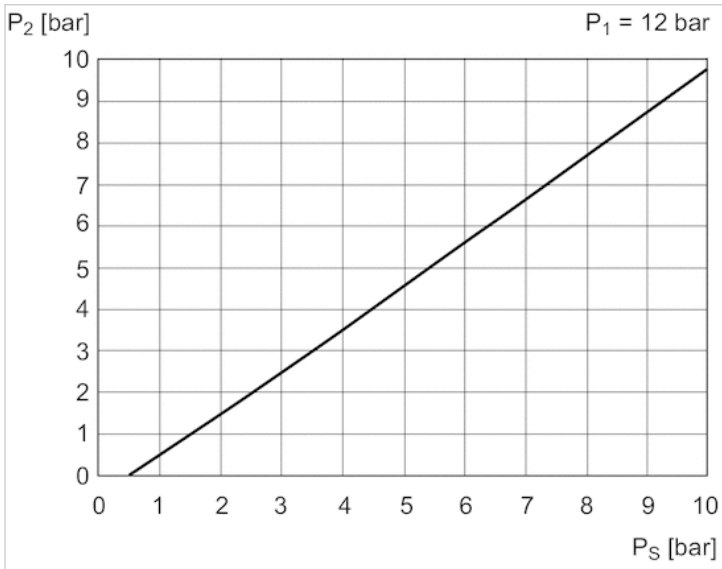
- p1 = Working pressure
- p2 = Secondary pressure
- qn = Nominal flow
- 1) = Starting point

## Flow rate characteristic (p2: 05 - 8 bar)



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

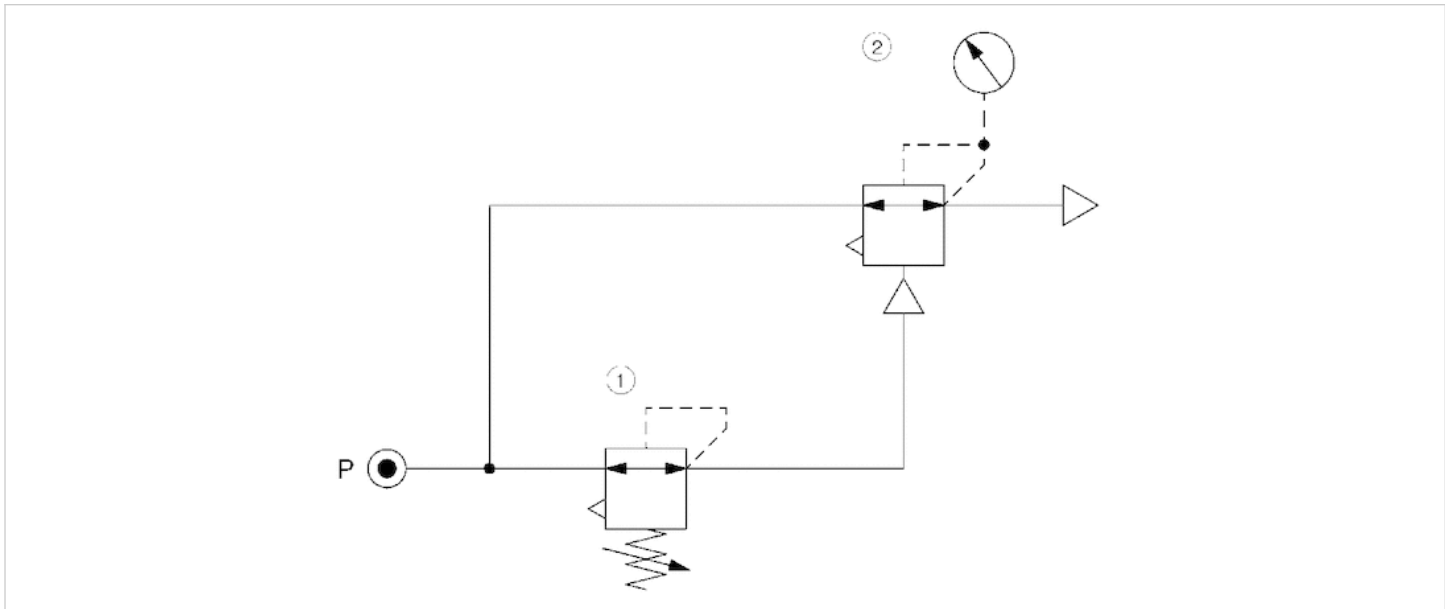
control pressure characteristic



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $PS$  = control pressure

Circuit diagram

Application example



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

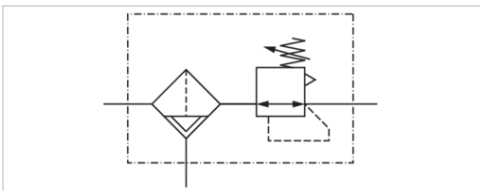
# Filter pressure regulator, Series AS3-FRE

- G 3/8, G 1/2

- lockable

- for padlocks

- suitable for ATEX



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	5.18 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

## Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Qn		
R412007175	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007193	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 145 psi
R412007176	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007177	G 3/8	5.18 Cv	0 ... 232 psi	8 ... 116 psi
R412007194	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 145 psi
R412007195	G 3/8	5.18 Cv	0 ... 232 psi	8 ... 145 psi
R412007181	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007182	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007183	G 3/8	5.18 Cv	0 ... 232 psi	8 ... 116 psi
R412007184	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007196	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 145 psi
R412007190	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007240	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 232 psi
R412007185	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007186	G 1/2	5.18 Cv	0 ... 232 psi	8 ... 116 psi
R412007197	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 145 psi
R412007198	G 1/2	5.18 Cv	0 ... 232 psi	8 ... 145 psi
R412007238	G 1/2	5.18 Cv	0 ... 232 psi	8 ... 232 psi
R412007192	G 1/2	5.18 Cv	0 ... 232 psi	8 ... 116 psi

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Qn		
R412007191	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007241	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 232 psi
R412007242	G 1/2	5.18 Cv	0 ... 232 psi	8 ... 232 psi

Part No.	Condensate drain	Reservoir	Protective guard	Weight
R412007175	semi-automatic, open without pressure	Polycarbonate	Polyamide	1.29 lbs
R412007193	semi-automatic, open without pressure	Polycarbonate	Polyamide	1.8 lbs
R412007176	fully automatic, open without pressure	Polycarbonate	Polyamide	1.4 lbs
R412007177	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.4 lbs
R412007194	fully automatic, open without pressure	Polycarbonate	Polyamide	1.92 lbs
R412007195	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.92 lbs
R412007181	fully automatic, closed without pressure	Die cast zinc	-	1.8 lbs
R412007182	fully automatic, open without pressure	Die cast zinc	-	1.92 lbs
R412007183	fully automatic, closed without pressure	Die cast zinc	-	1.92 lbs
R412007184	semi-automatic, open without pressure	Polycarbonate	Polyamide	1.29 lbs
R412007196	semi-automatic, open without pressure	Polycarbonate	Polyamide	1.29 lbs
R412007190	semi-automatic, open without pressure	Die cast zinc	-	1.76 lbs
R412007240	semi-automatic, open without pressure	Die cast zinc	-	1.76 lbs
R412007185	fully automatic, open without pressure	Polycarbonate	Polyamide	1.4 lbs
R412007186	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.4 lbs
R412007197	fully automatic, open without pressure	Polycarbonate	Polyamide	1.4 lbs
R412007198	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.4 lbs
R412007238	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.4 lbs
R412007192	fully automatic, closed without pressure	Die cast zinc	-	1.87 lbs
R412007191	fully automatic, open without pressure	Die cast zinc	-	1.87 lbs
R412007241	fully automatic, open without pressure	Die cast zinc	-	1.87 lbs
R412007242	fully automatic, closed without pressure	Die cast zinc	-	1.87 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 14.5$  psi

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

Compressed air class 6 : 7 : -

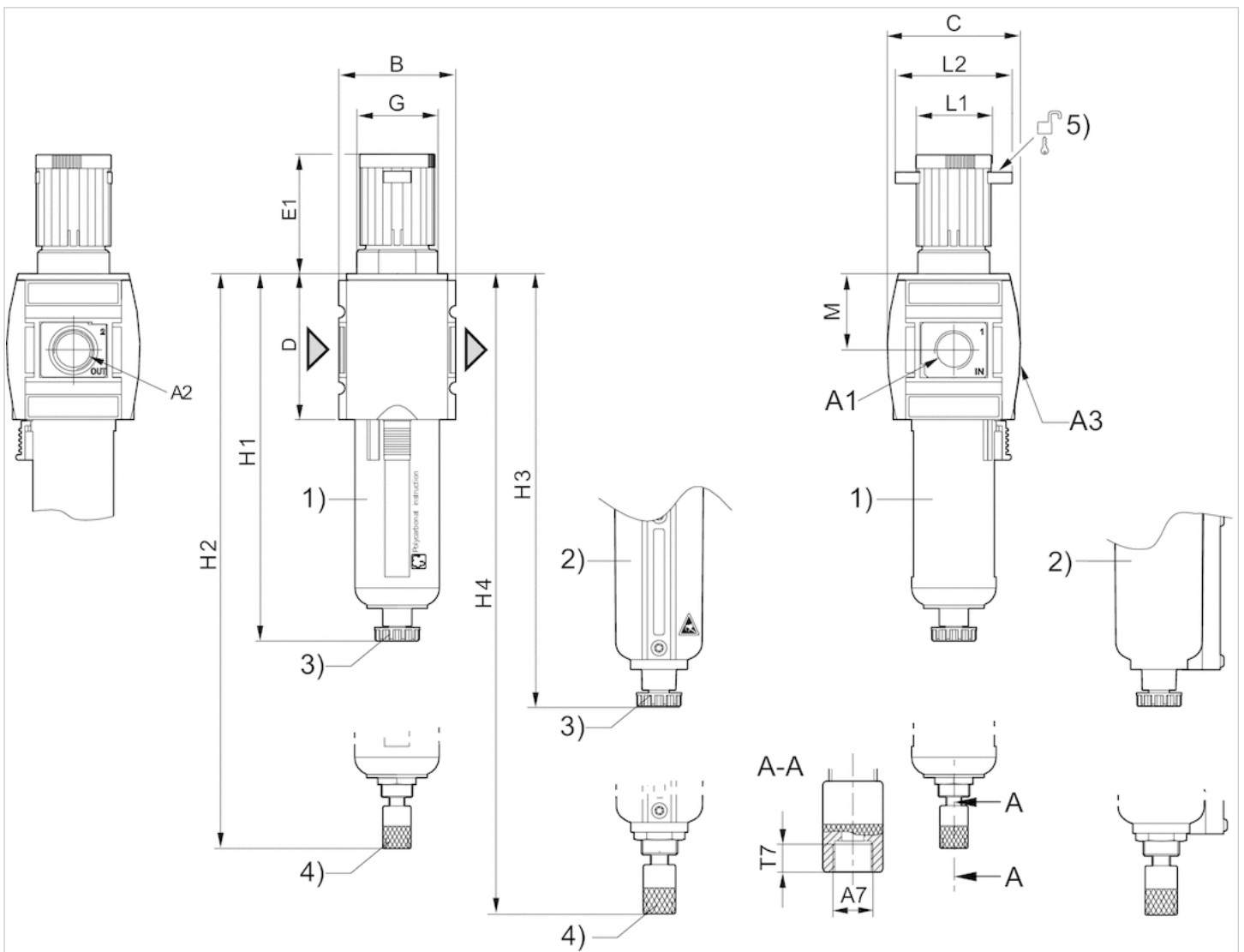
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Material	
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Filter insert	Polyethylene

## Dimensions

### 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

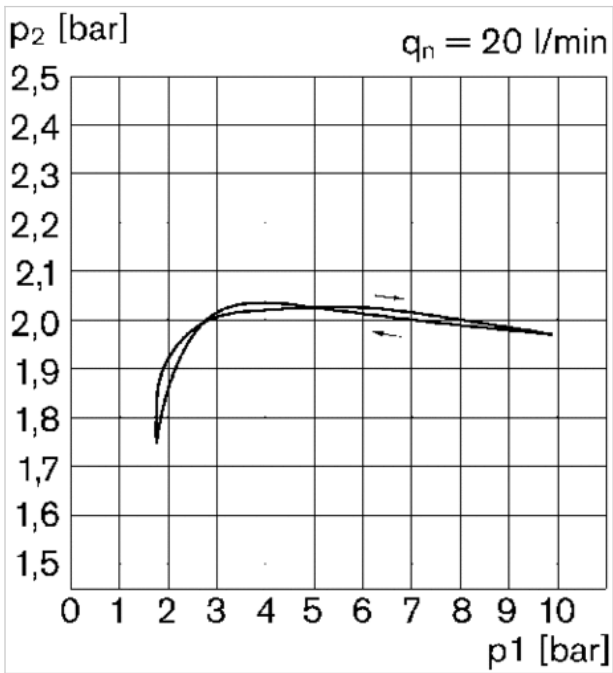


Dimensions in mm

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	H3	H4	L1	L2	M
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--	41	60	42.5
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--	41	60	42.5
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--	41	60	42.5
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5	41	60	42.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--	41	60	42.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--	41	60	42.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--	41	60	42.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5	41	60	42.5

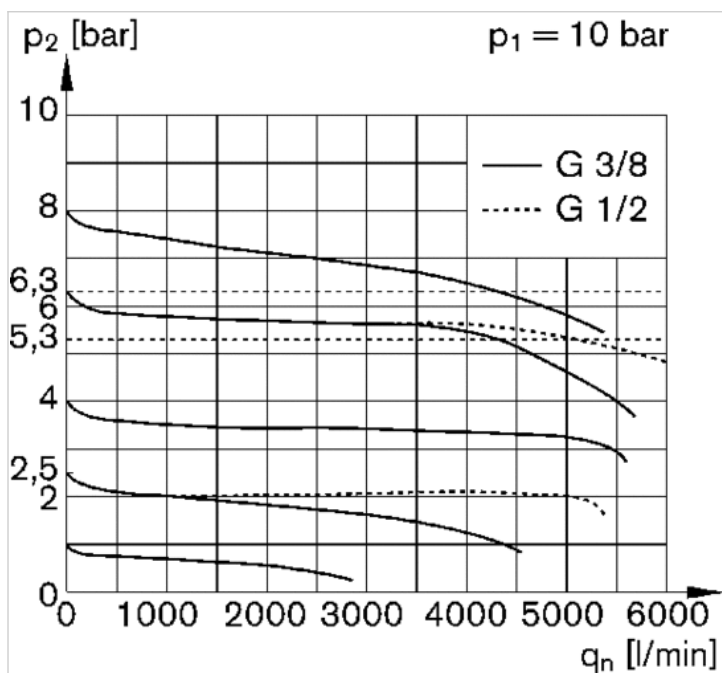
Diagrams

Pressure characteristics curve



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

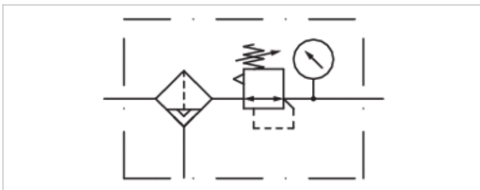
Flow rate characteristic (p2: 05 - 8 bar)



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

# Filter pressure regulator, Series AS3-FRE

- G 3/8, G 1/2
- lockable
- for padlocks
- with pressure gauge
- suitable for ATEX



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	5.18 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

## Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Qn		
R412007200	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007201	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007202	G 3/8	5.18 Cv	0 ... 232 psi	8 ... 116 psi
R412007206	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007207	G 3/8	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007208	G 3/8	5.18 Cv	0 ... 232 psi	8 ... 116 psi
R412007209	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007237	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 232 psi
R412007210	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007211	G 1/2	5.18 Cv	0 ... 232 psi	8 ... 116 psi
R412007215	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007216	G 1/2	5.18 Cv	22 ... 232 psi	8 ... 116 psi
R412007217	G 1/2	5.18 Cv	0 ... 232 psi	8 ... 116 psi

Part No.	Condensate drain	Reservoir	Protective guard	Weight
R412007200	semi-automatic, open without pressure	Polycarbonate	Polyamide	1.45 lbs
R412007201	fully automatic, open without pressure	Polycarbonate	Polyamide	1.56 lbs
R412007202	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.56 lbs

Part No.	Condensate drain	Reservoir	Protective guard	Weight
R412007206	semi-automatic, open without pressure	Die cast zinc	-	1.96 lbs
R412007207	fully automatic, open without pressure	Die cast zinc	-	2.08 lbs
R412007208	fully automatic, closed without pressure	Die cast zinc	-	2.08 lbs
R412007209	semi-automatic, open without pressure	Polycarbonate	Polyamide	1.45 lbs
R412007237	fully automatic, open without pressure	Polycarbonate	Polyamide	1.45 lbs
R412007210	fully automatic, open without pressure	Polycarbonate	Polyamide	1.56 lbs
R412007211	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.56 lbs
R412007215	semi-automatic, open without pressure	Die cast zinc	-	1.92 lbs
R412007216	fully automatic, open without pressure	Die cast zinc	-	2.03 lbs
R412007217	fully automatic, closed without pressure	Die cast zinc	-	2.03 lbs

Pressure gauge enclosed separately, Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 14.5$  psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

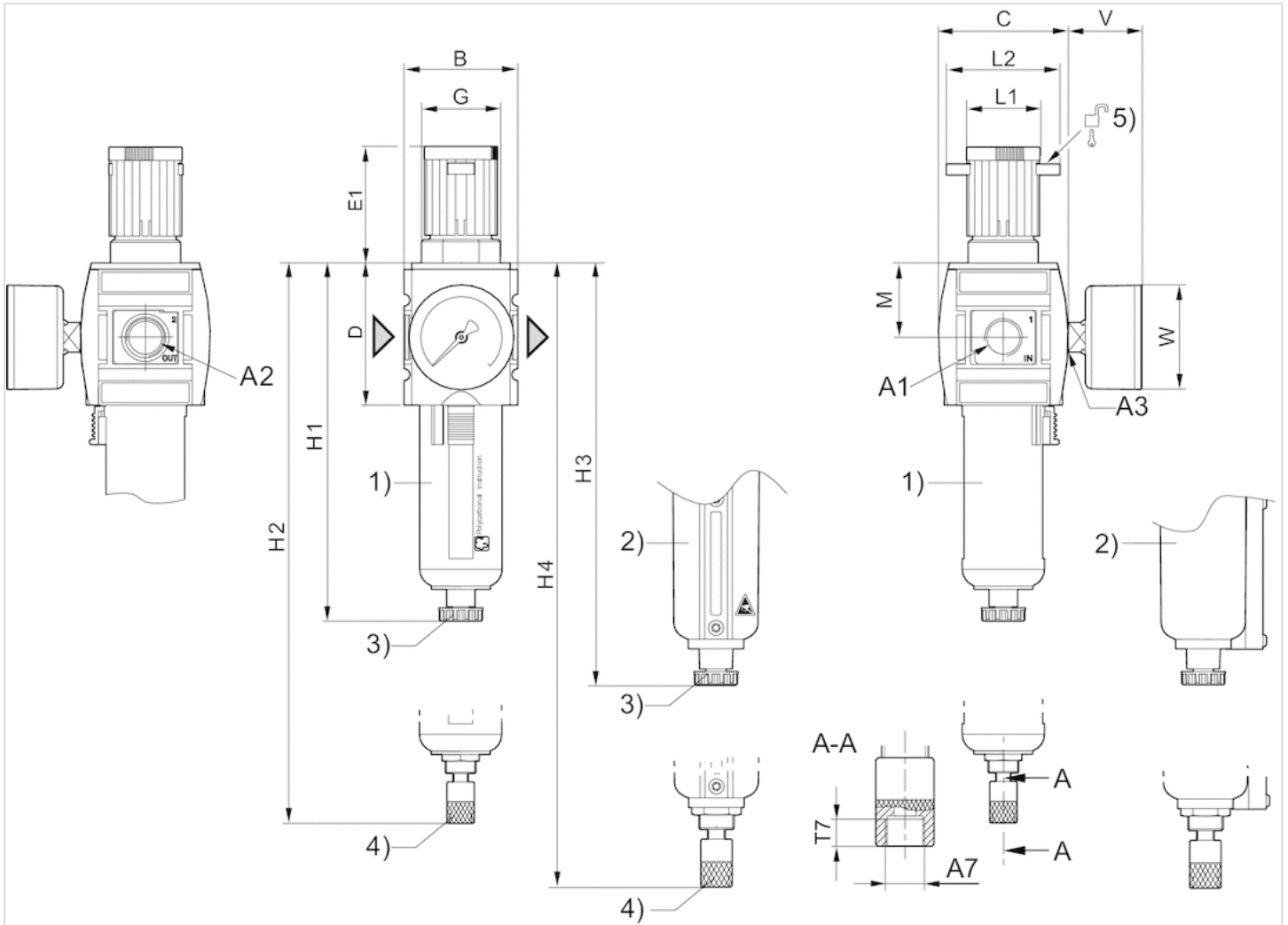
Compressed air class 6 : 7 : -

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Filter insert	Polyethylene

# Dimensions

## 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

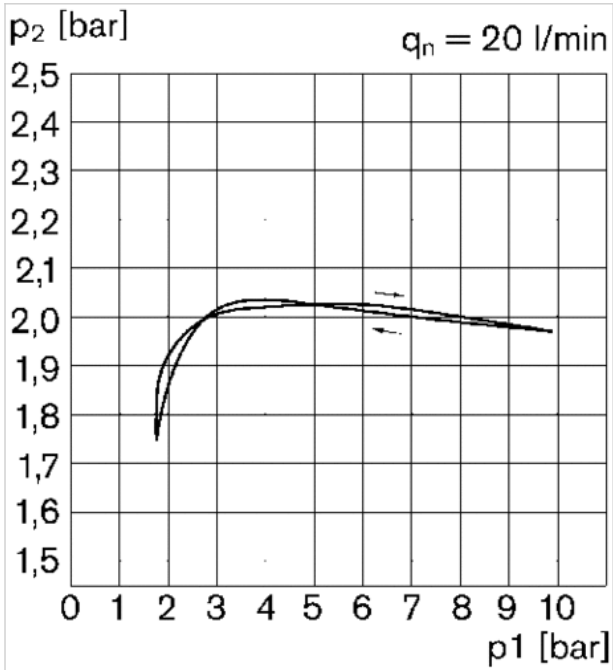
## Dimensions in mm

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	H3	H4	L1	L2	M	T7	V	W
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--	41	60	42.5	8.5	33	50
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--	41	60	42.5	8.5	33	50
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--	41	60	42.5	8.5	33	50
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5	41	60	42.5	8.5	33	50
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--	41	60	42.5	8.5	33	50
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--	41	60	42.5	8.5	33	50
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--	41	60	42.5	8.5	33	50

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	H3	H4	L1	L2	M	T7	V	W
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5	41	60	42.5	8.5	33	50

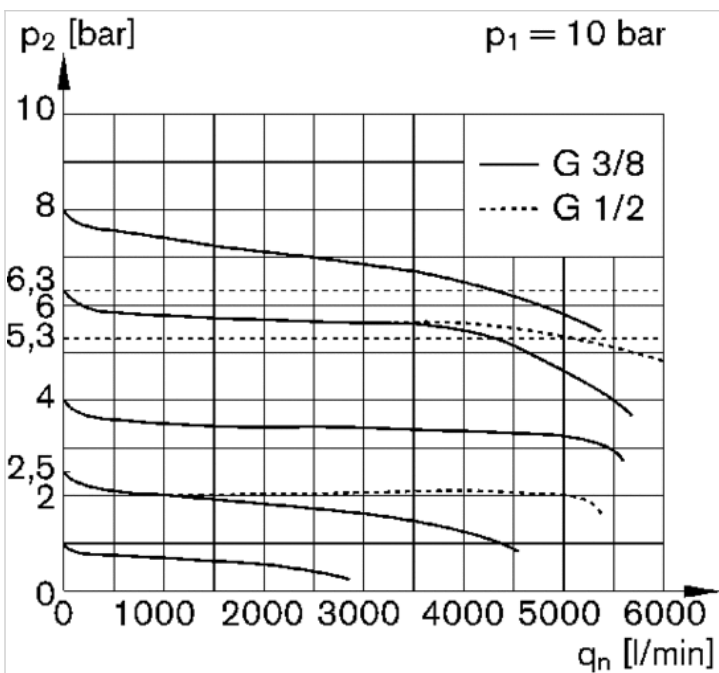
## Diagrams

### Pressure characteristics curve



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

### Flow rate characteristic (p2: 0.5 - 8 bar)

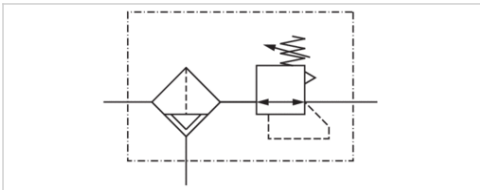


p1 = Working pressure  
 p2 = Secondary pressure  
 qn = Nominal flow



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

- G 1/2
- lockable
- with E11 locking



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	5.18 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 145 psi
Pressure supply	single
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	fully automatic, closed without pressure
Weight	1.4 lbs

## Technical data

Part No.	Port	Flow	Condensate drain
		Qn	
R412007203	G 1/2	5.18 Cv	fully automatic, closed without pressure

Order pressure gauge separately, Nominal flow Qn with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 14.5$  psi

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The E11 locking is delivered without a key (see accessories for keys).

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

Compressed air class 6 : 7 : -

## Technical information

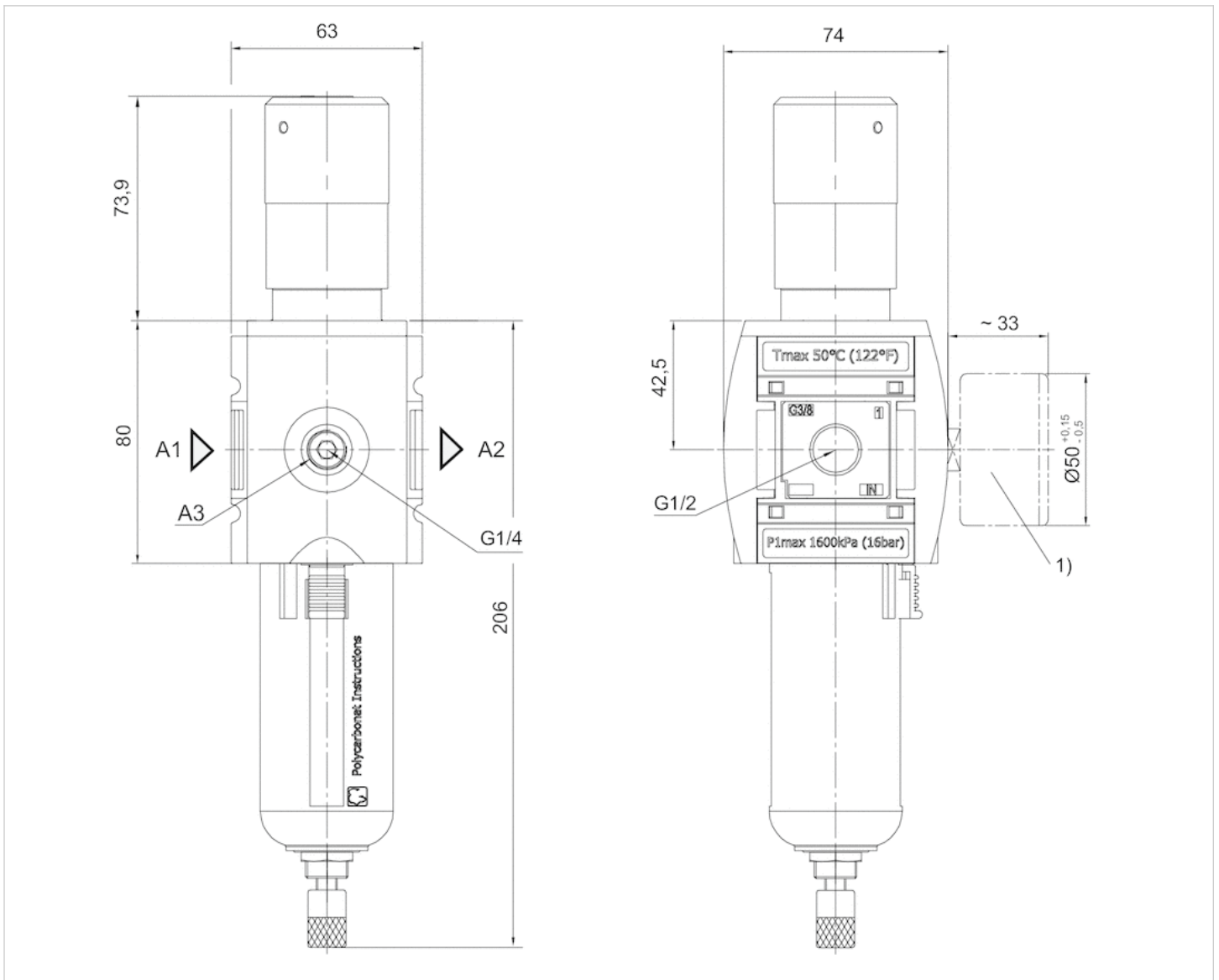
Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber



Material	
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Polyethylene

## Dimensions

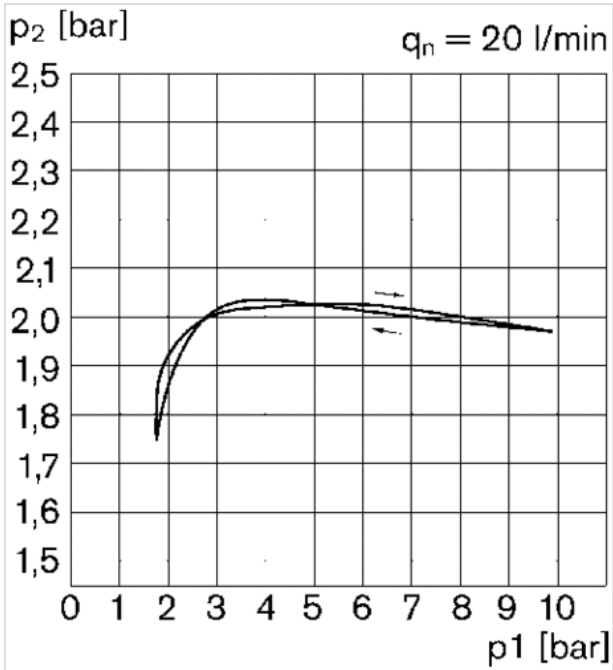
### Dimensions



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

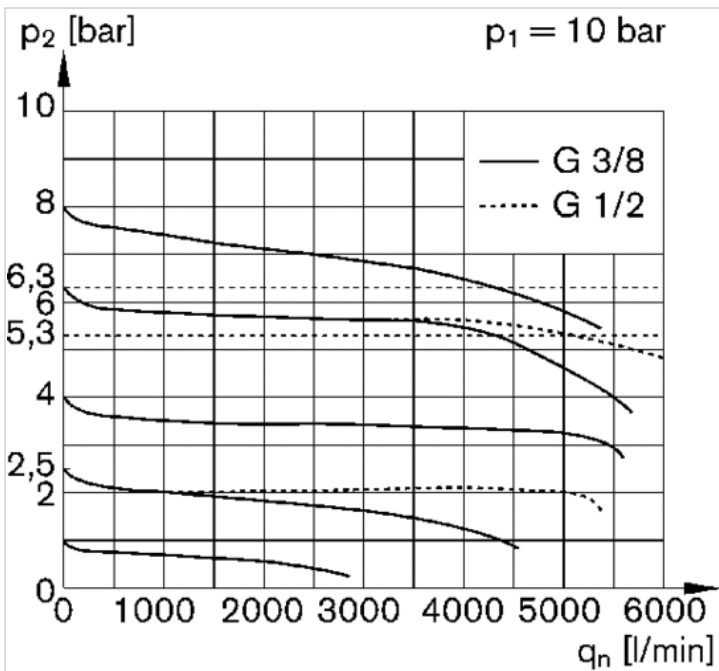
## Diagrams

### Pressure characteristics curve



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

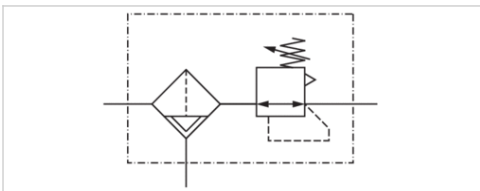
### Flow rate characteristic ( $p_2$ : 0.5 - 8 bar)



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

# Filter pressure regulator, Series AS3-FRE

- G 1/2
- lockable
- for padlocks
- suitable for ATEX



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	22 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	5.18 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 116 psi
Pressure supply	single
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	semi-automatic, open without pressure
Weight	1.76 lbs

## Technical data

Part No.	Port	Flow	Condensate drain
		Qn	
R412007189	G 1/2	5.18 Cv	semi-automatic, open without pressure

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

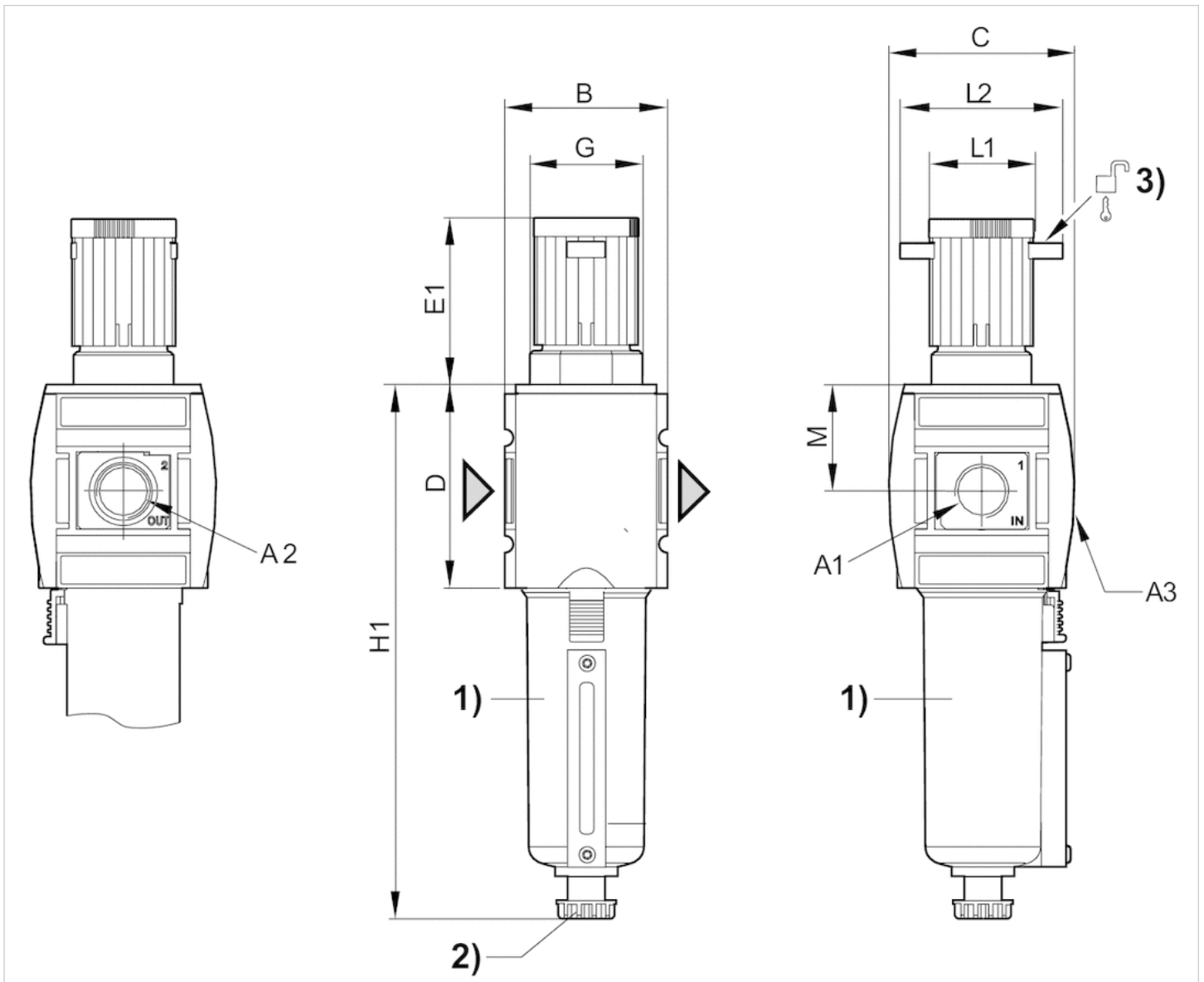
Compressed air class 7 : 7 : -

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Die cast zinc
Filter insert	Polyethylene

## Dimensions

### Dimensions



A1 = input  
 A2 = output  
 A3 = pressure gauge connection

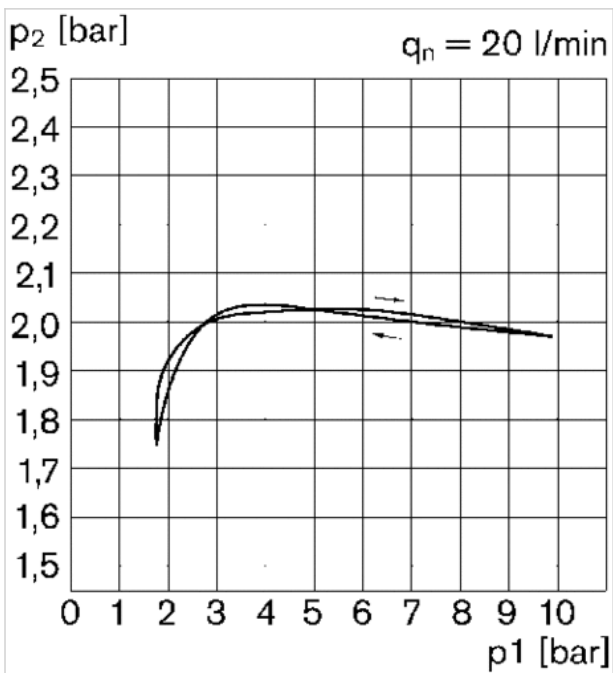
- 1) Metal reservoir with level indicator
- 2) Semi-automatic condensate drain
- 3) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

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

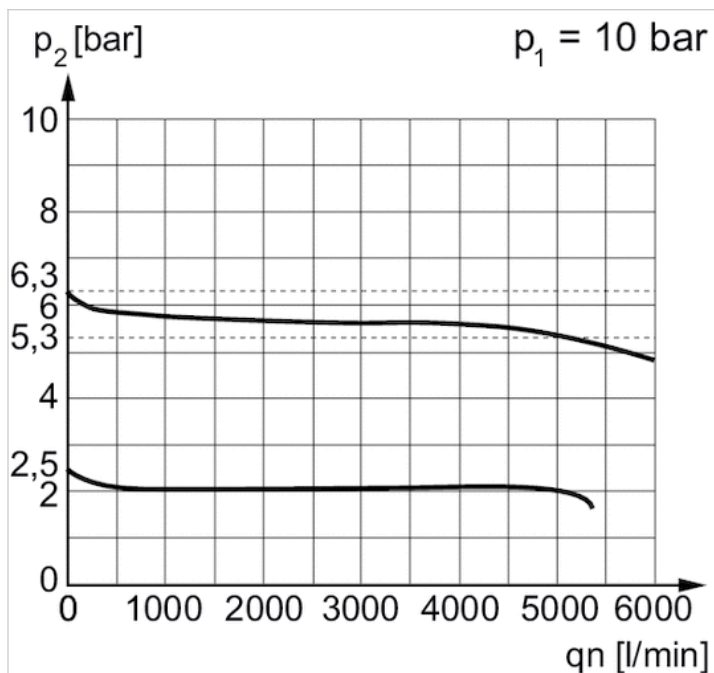
Diagrams

Pressure characteristics curve



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

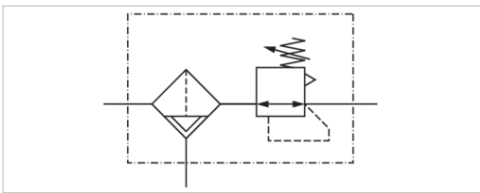
Flow rate characteristic (p2: 05 - 8 bar)



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

# Filter pressure regulator, Series AS3-FRE

- G 3/8, G 1/2
- lockable
- for padlocks
- suitable for ATEX



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	5.18 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 145 psi
Pressure supply	single
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

## Technical data

Part No.	Port	Flow	Working pressure min./max.	Condensate drain
		Qn		
R412007218	G 3/8	5.18 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007219	G 3/8	5.18 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007220	G 3/8	5.18 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007221	G 1/2	5.18 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007222	G 1/2	5.18 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007223	G 1/2	5.18 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Weight
R412007218	1.29 lbs
R412007219	1.4 lbs
R412007220	1.4 lbs
R412007221	1.29 lbs
R412007222	1.4 lbs
R412007223	1.4 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

Compressed air class 7 : 7 : -

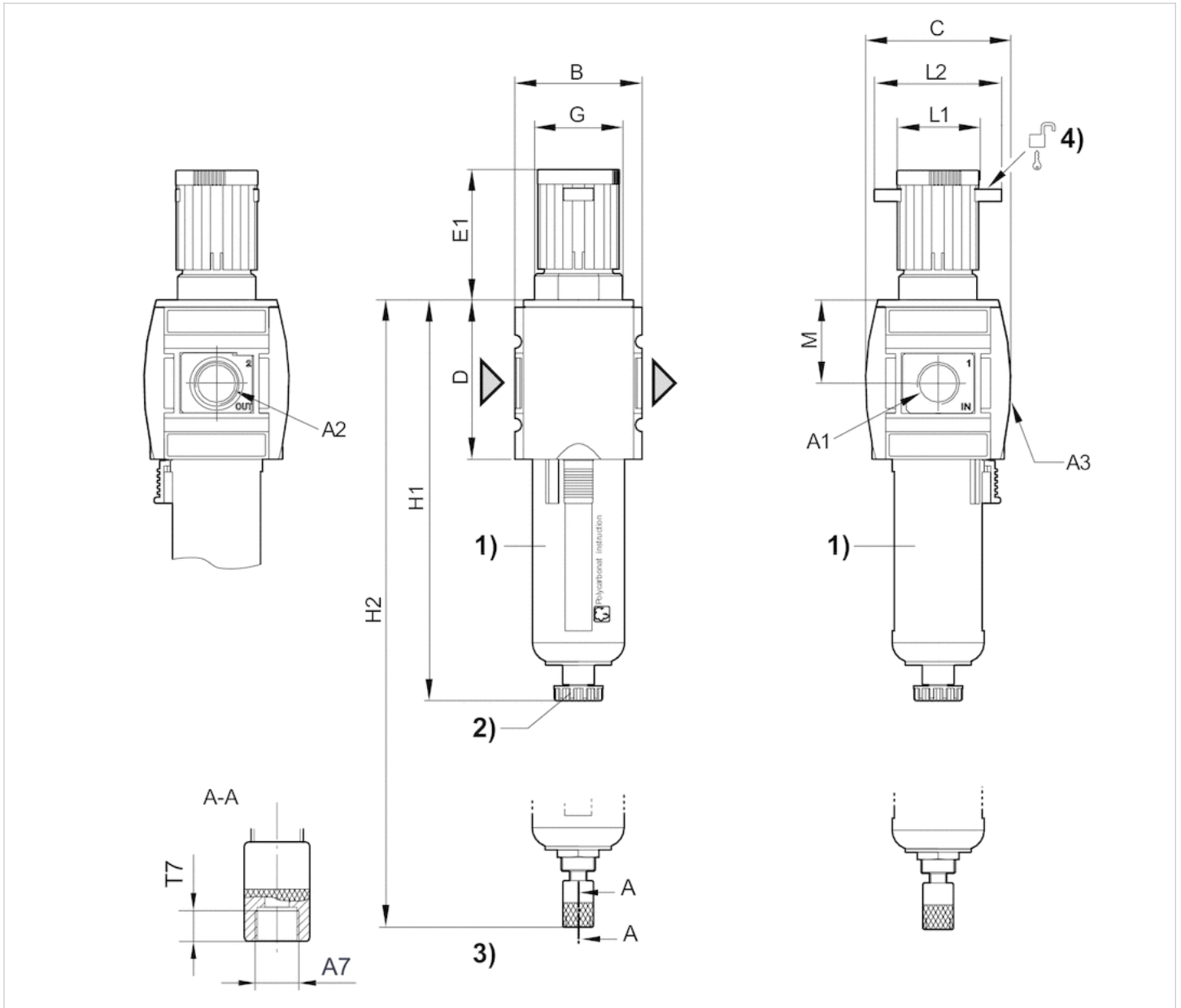
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Polyethylene



# Dimensions

## Dimensions



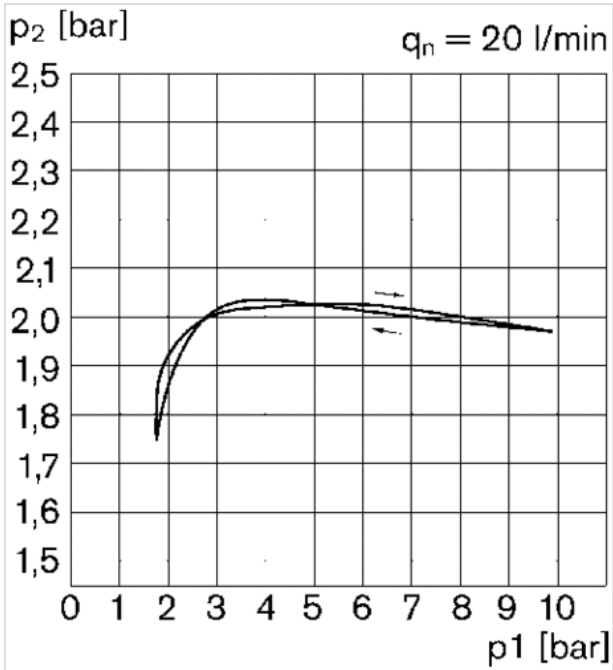
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Semi-automatic condensate drain
- 3) Fully automatic condensate drain
- 4) Mounting option for padlocks, max. shackle Ø 8

## Dimensions in mm

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	L1	L2	T7	M
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	206	41	60	8.5	42.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	206	41	60	8.5	42.5

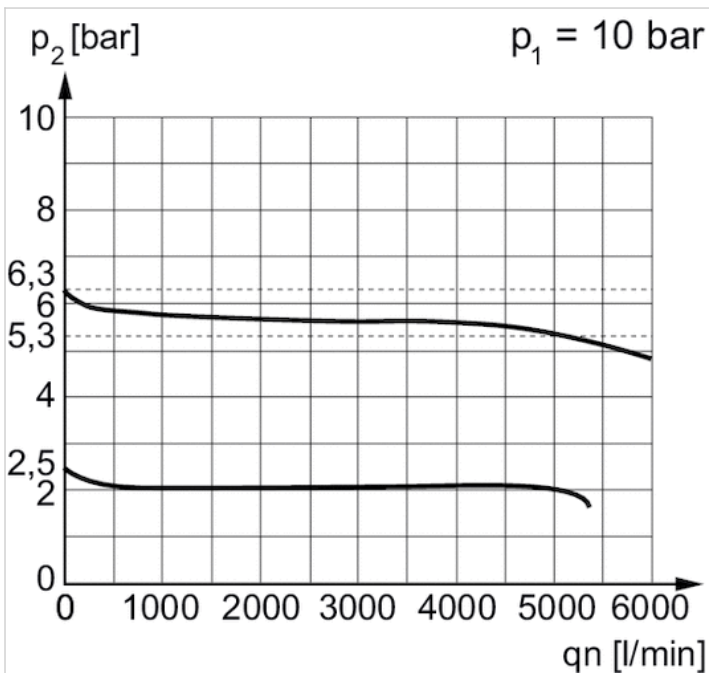
## Diagrams

### Pressure characteristics curve



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

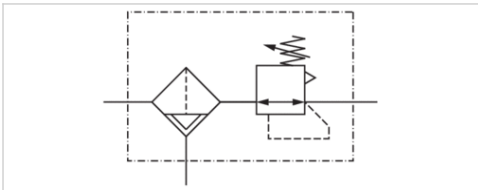
### Flow rate characteristic ( $p_2$ : 05 - 8 bar)



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

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

- G 1/2
- lockable
- with E11 locking



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	5.18 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 145 psi
Pressure supply	single
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	fully automatic, closed without pressure
Weight	1.4 lbs

## Technical data

Part No.	Port	Flow	Condensate drain
		Qn	
R412007204	G 1/2	5.18 Cv	fully automatic, closed without pressure

Order pressure gauge separately, Nominal flow Qn with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 14.5$  psi

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The E11 locking is delivered without a key (see accessories for keys).

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

Compressed air class 7 : 7 : -

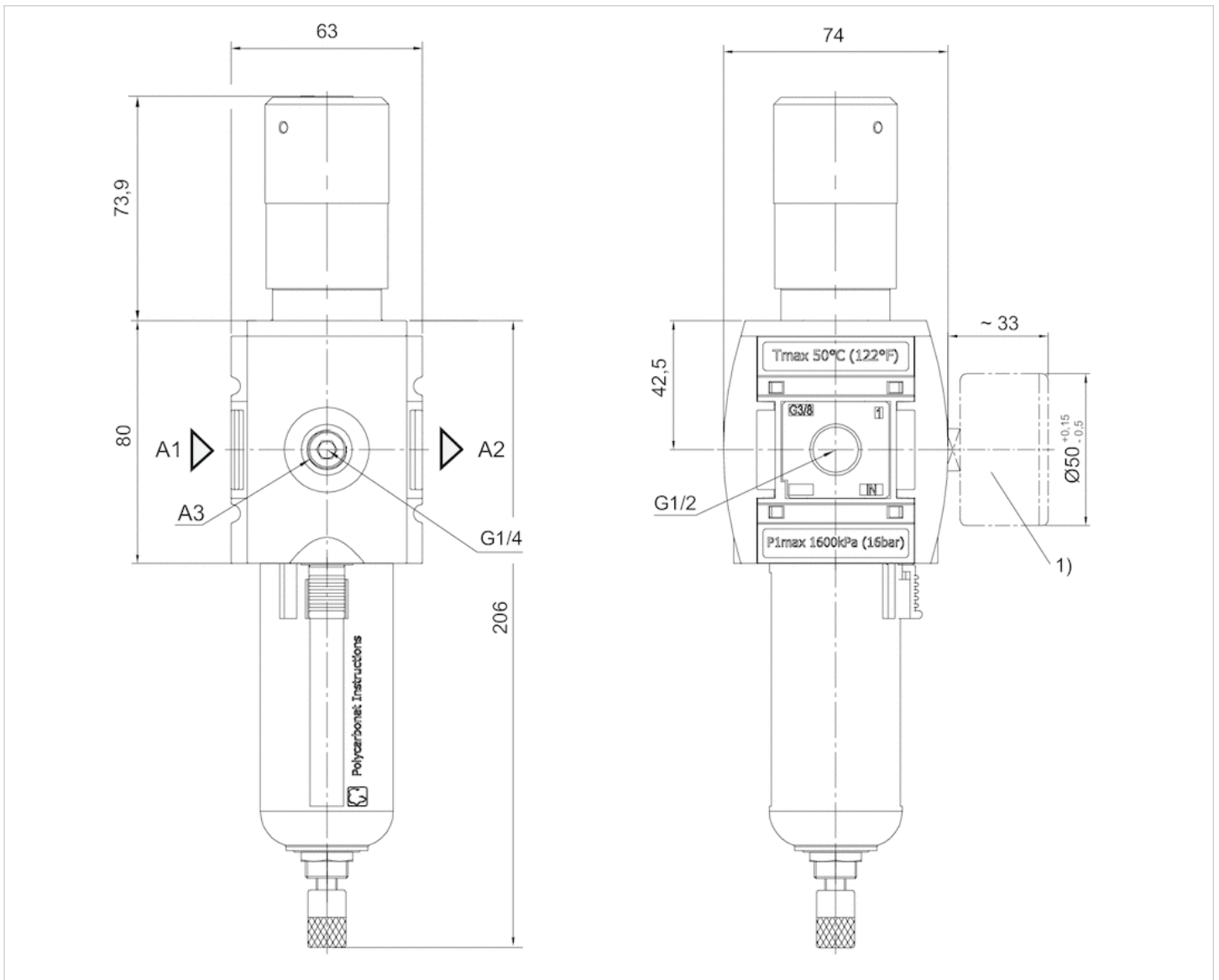
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Material	
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Polyethylene

## Dimensions

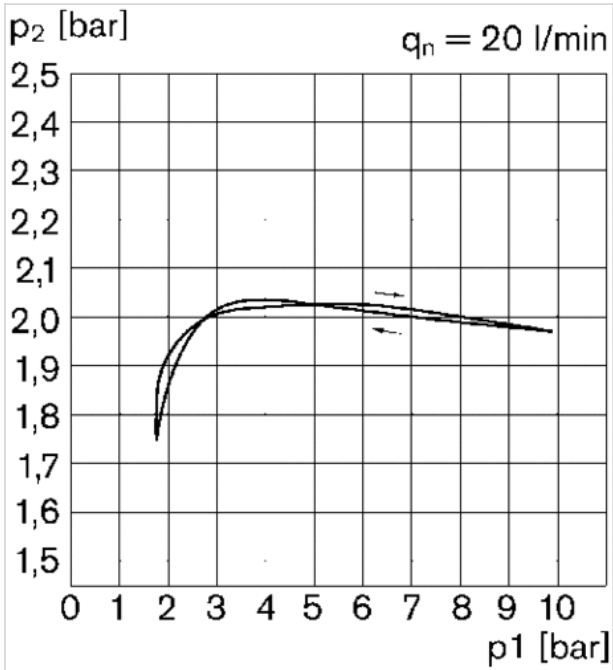
### Dimensions



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

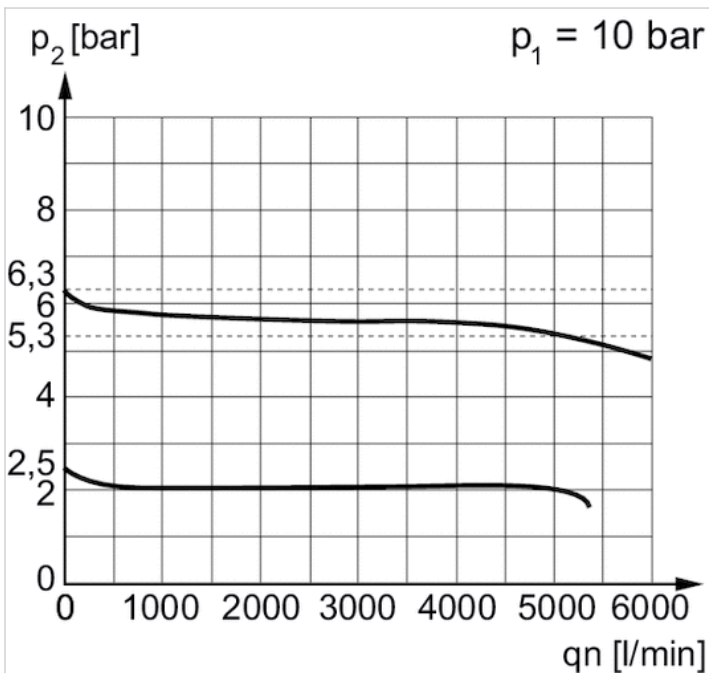
## Diagrams

### Pressure characteristics curve



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

### Flow rate characteristic ( $p_2$ : 05 - 8 bar)

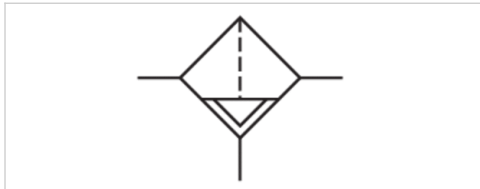


$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

# Filter, Series AS3-FLS

- G 3/8, G 1/2

- suitable for ATEX



Version	Standard filter, Can be assembled into blocks
Parts	Filter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

## Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412007000	G 3/8	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007001	G 3/8	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007002	G 3/8	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007006	G 3/8	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007007	G 3/8	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007008	G 3/8	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007009	G 1/2	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007010	G 1/2	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007011	G 1/2	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007015	G 1/2	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007016	G 1/2	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007017	G 1/2	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412007000	Polycarbonate	Polyamide	0.796 lbs
R412007001	Polycarbonate	Polyamide	0.904 lbs
R412007002	Polycarbonate	Polyamide	0.904 lbs
R412007006	Die cast zinc, with window	-	1.59 lbs
R412007007	Die cast zinc, with window	-	1.74 lbs
R412007008	Die cast zinc, with window	-	1.74 lbs
R412007009	Polycarbonate	Polyamide	0.796 lbs
R412007010	Polycarbonate	Polyamide	0.904 lbs

Part No.	Reservoir	Protective guard	Weight
R412007011	Polycarbonate	Polyamide	0.904 lbs
R412007015	Die cast zinc, with window	-	1.58 lbs
R412007016	Die cast zinc, with window	-	1.7 lbs
R412007017	Die cast zinc, with window	-	1.7 lbs

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 14.5$  psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

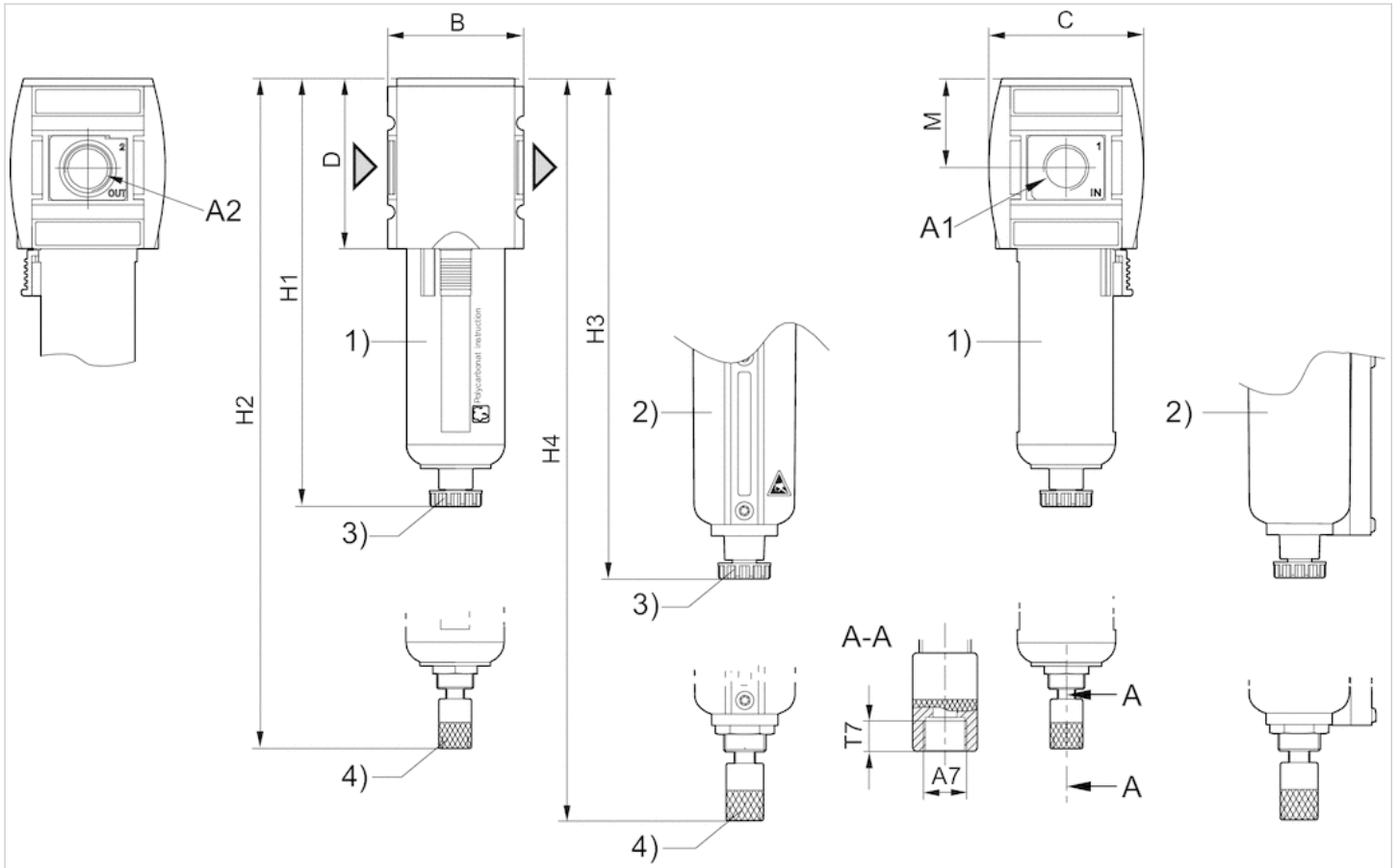
Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Filter insert	Polyethylene

## Dimensions

### 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

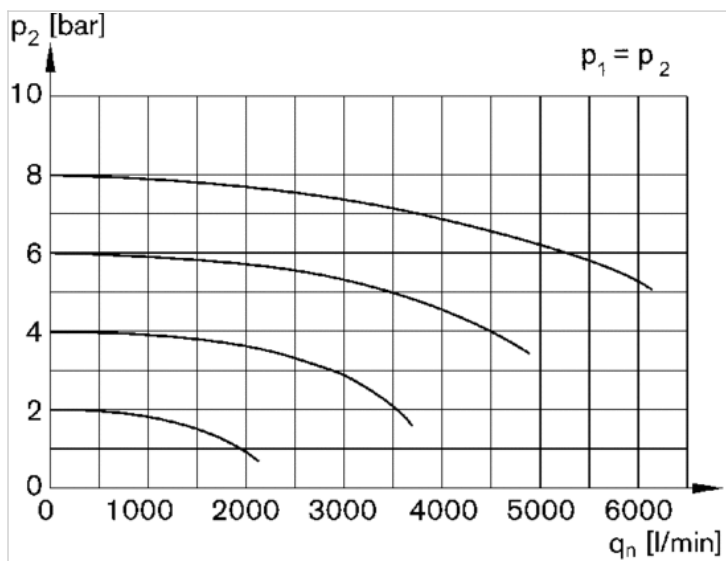
### Dimensions in mm

A1	A2	A7	B	C	D	H1	H2	H3	H4	M	T7
G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5
G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	193.5	210.5	42.5	8.5



## Diagrams

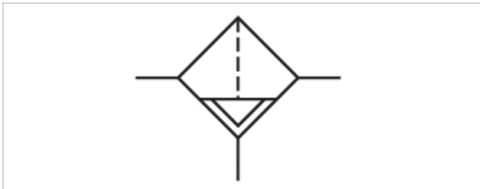
### Flow rate characteristic



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

# Filter, Series AS3-FLS

- G 1/2
- suitable for ATEX



Version	Standard filter, Can be assembled into blocks
Parts	Filter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	22 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	semi-automatic, open without pressure
Weight	0.796 lbs

## Technical data

Part No.	Port	Qn
R412007090	G 1/2	3.56 Cv

Nominal flow Qn with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 14.5$  psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

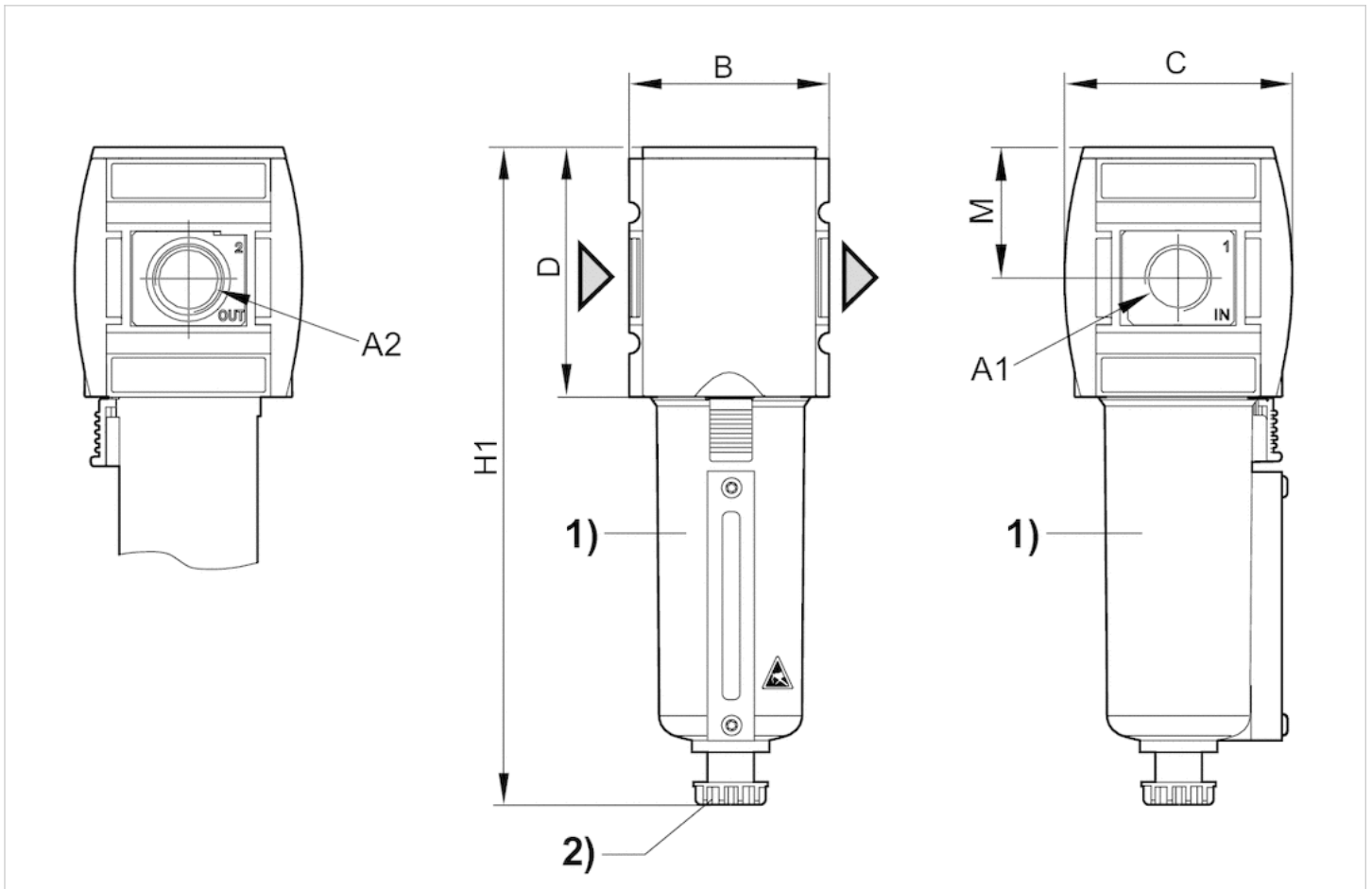
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

Material	
Reservoir	Die cast zinc
Protective guard	Polyamide
Filter insert	Polyethylene

## Dimensions

### Dimensions



A1 = input

A2 = output

1) Metal reservoir with level indicator

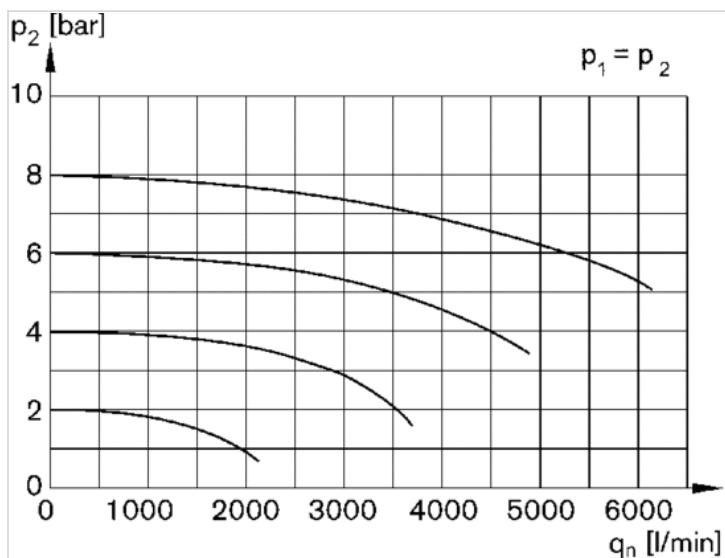
2) Semi-automatic condensate drain

### Dimensions in mm

A1	A2	B	C	D	H1	M
G 1/2	G 1/2	63	74	80	193.5	42.5

## Diagrams

### Flow rate characteristic

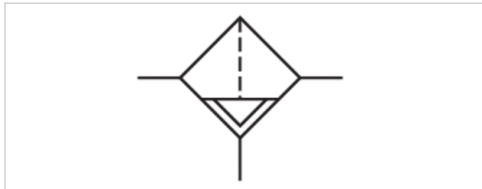


$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

# Filter, Series AS3-FLS

- G 3/8, G 1/2

- suitable for ATEX



Version	Standard filter, Can be assembled into blocks
Parts	Filter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

## Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412007003	G 3/8	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007004	G 3/8	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007005	G 3/8	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007012	G 1/2	3.56 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007013	G 1/2	3.56 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007014	G 1/2	3.56 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Weight
R412007003	Polycarbonate	0.796 lbs
R412007004	-	0.904 lbs
R412007005	-	0.904 lbs
R412007012	-	0.796 lbs
R412007013	-	0.904 lbs
R412007014	-	0.904 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

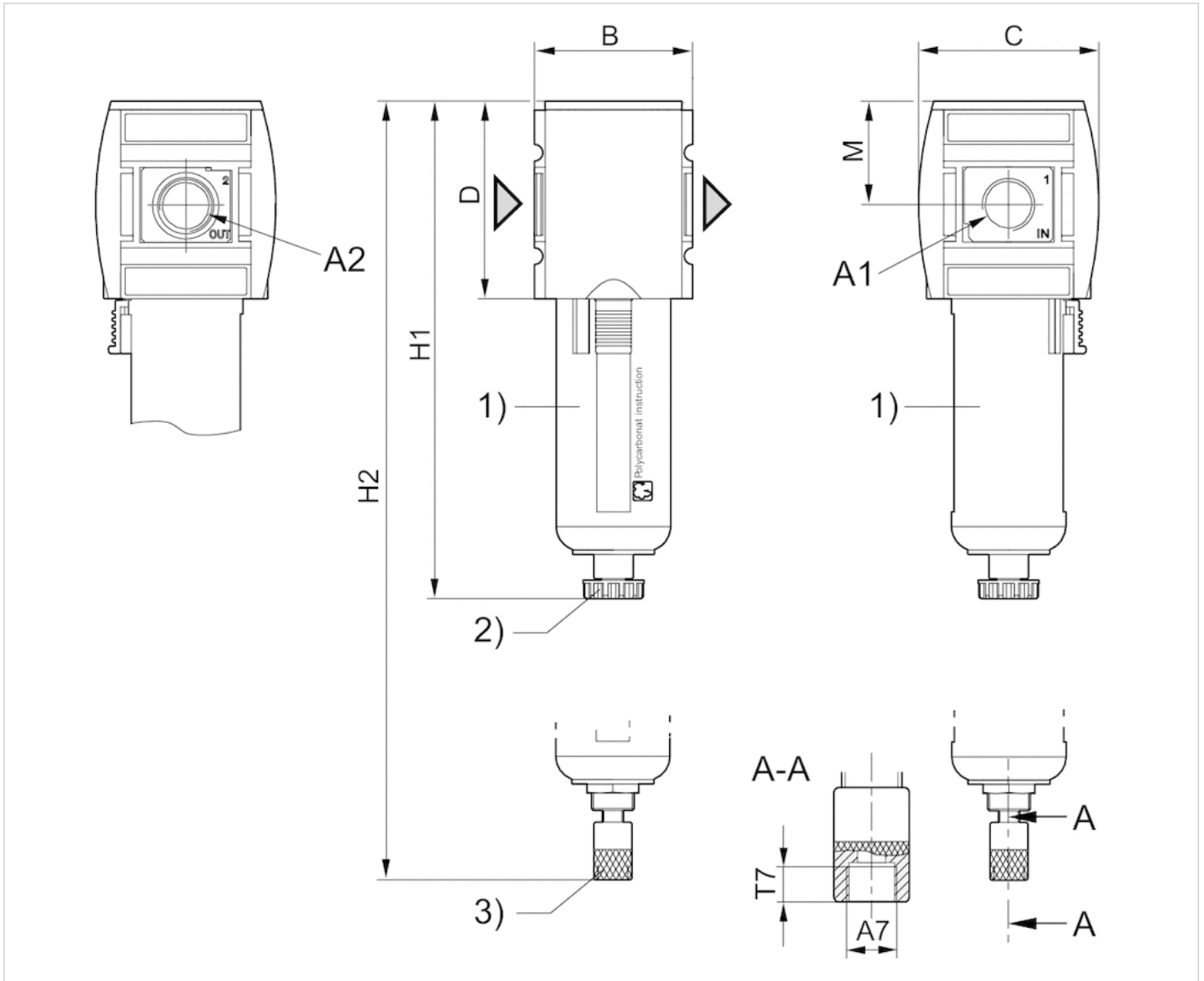
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Polyethylene

## Dimensions

### Dimensions



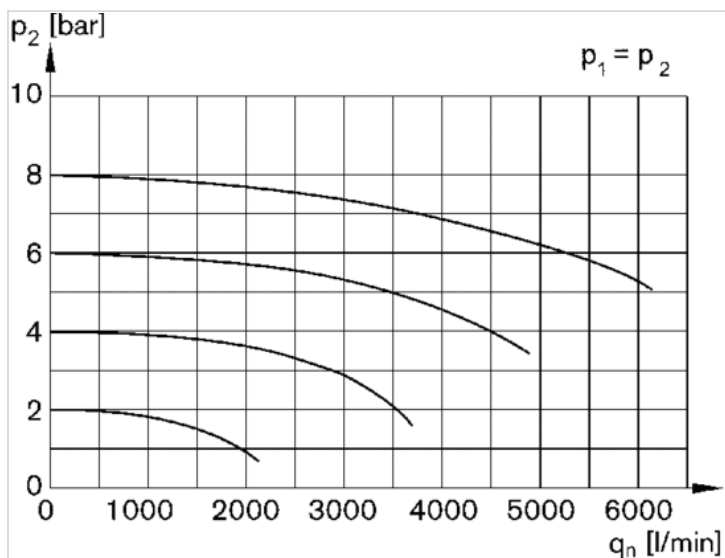
- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Semi-automatic condensate drain
- 3) Fully automatic condensate drain

### Dimensions in mm

A1	A2	A7	B	C	D	H1	H2	M	T7
G 3/8	G 3/8	G 1/8	63	74	80	189.5	206	42.5	8.5
G 1/2	G 1/2	G 1/8	63	74	80	189.5	206	42.5	8.5

## Diagrams

### Flow rate characteristic



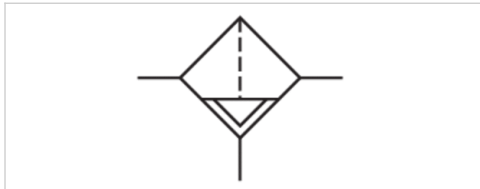
$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow



# Pre-filter, Series AS3-FLP

- G 3/8, G 1/2

- suitable for ATEX



Version	Pre-filter, Can be assembled into blocks
Parts	Pre-filter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

## Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412007018	G 3/8	0.915 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007019	G 3/8	0.915 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007020	G 3/8	0.915 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007024	G 3/8	0.915 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007025	G 3/8	0.915 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007026	G 3/8	0.915 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007027	G 1/2	0.915 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007028	G 1/2	0.915 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007029	G 1/2	0.915 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007033	G 1/2	0.915 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007034	G 1/2	0.915 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007035	G 1/2	0.915 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412007018	Polycarbonate	Polyamide	0.796 lbs
R412007019	Polycarbonate	Polyamide	0.904 lbs
R412007020	Polycarbonate	Polyamide	0.904 lbs
R412007024	Die cast zinc, with window	-	1.72 lbs
R412007025	Die cast zinc, with window	-	1.83 lbs
R412007026	Die cast zinc, with window	-	1.83 lbs
R412007027	Polycarbonate	Polyamide	0.796 lbs
R412007028	Polycarbonate	Polyamide	0.904 lbs

Part No.	Reservoir	Protective guard	Weight
R412007029	Polycarbonate	Polyamide	0.904 lbs
R412007033	Die cast zinc, with window	-	1.67 lbs
R412007034	Die cast zinc, with window	-	1.79 lbs
R412007035	Die cast zinc, with window	-	1.79 lbs

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 1.45$  psi, Dust separation = 99.99%

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

Recommended pre-filtering 5 µm

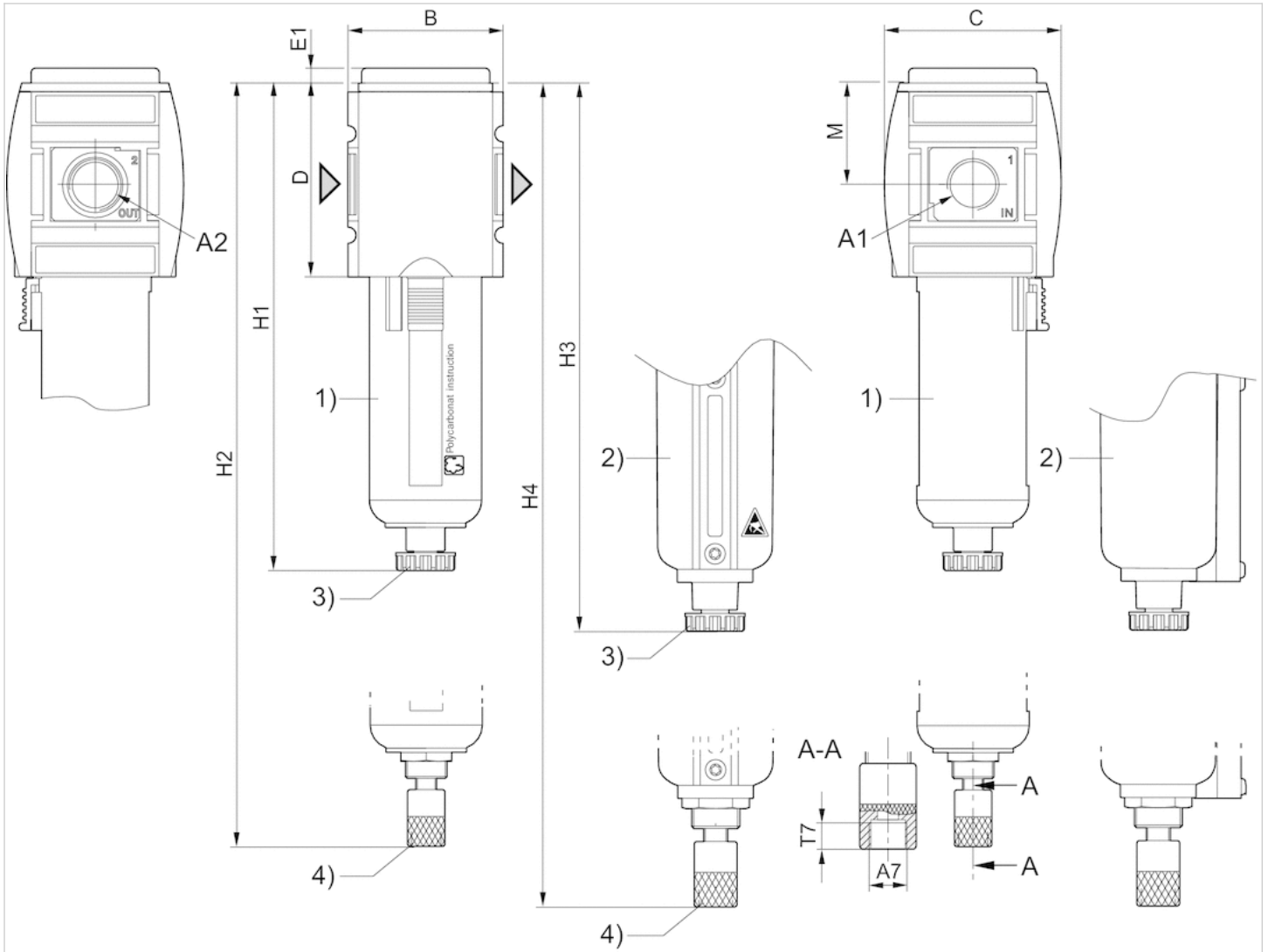
Max. achievable compressed air class acc. to ISO 8573-1:2010 2 : - : 3

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Filter insert	Impregnated paper

# Dimensions

## Dimensions



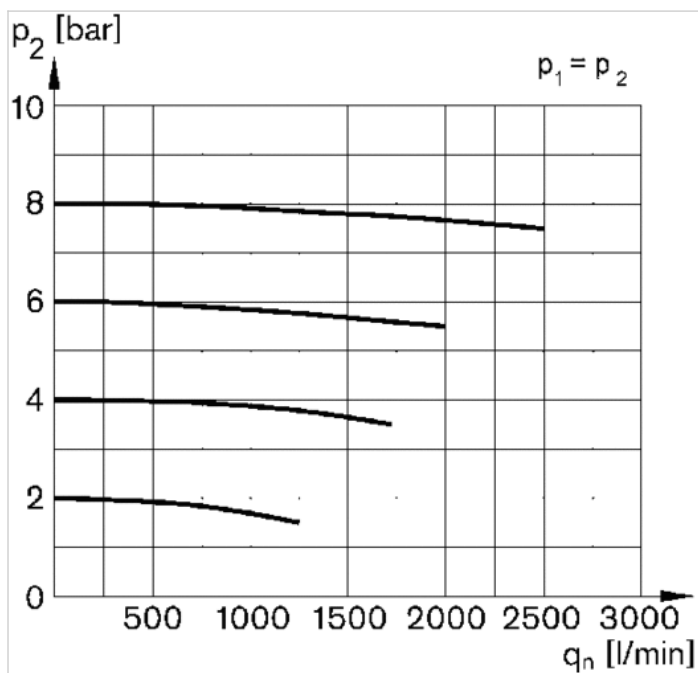
- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain

## Dimensions in mm

A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M
G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5
G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5

# Diagrams

## Flow rate characteristic

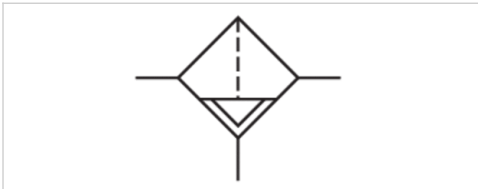


$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

# Microfilter, Series AS3-FLC

- G 3/8, G 1/2

- suitable for ATEX



Version	Microfilter, Can be assembled into blocks
Parts	Microfilter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

## Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412007036	G 3/8	0.711 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007037	G 3/8	0.711 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007038	G 3/8	0.711 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007042	G 3/8	0.711 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007043	G 3/8	0.711 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007044	G 3/8	0.711 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007045	G 1/2	0.711 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007046	G 1/2	0.711 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007047	G 1/2	0.711 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007051	G 1/2	0.711 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007052	G 1/2	0.711 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007053	G 1/2	0.711 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412007036	Polycarbonate	Polyamide	0.796 lbs
R412007037	Polycarbonate	Polyamide	0.904 lbs
R412007038	Polycarbonate	Polyamide	0.904 lbs
R412007042	Die cast zinc, with window	-	1.72 lbs
R412007043	Die cast zinc, with window	-	1.84 lbs
R412007044	Die cast zinc, with window	-	1.84 lbs
R412007045	Polycarbonate	Polyamide	0.796 lbs
R412007046	Polycarbonate	Polyamide	0.904 lbs

Part No.	Reservoir	Protective guard	Weight
R412007047	Polycarbonate	Polyamide	0.904 lbs
R412007051	Die cast zinc, with window	-	1.67 lbs
R412007052	Die cast zinc, with window	-	1.79 lbs
R412007053	Die cast zinc, with window	-	1.62 lbs

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 1.45$  psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

Recommended pre-filtering 0.3 µm

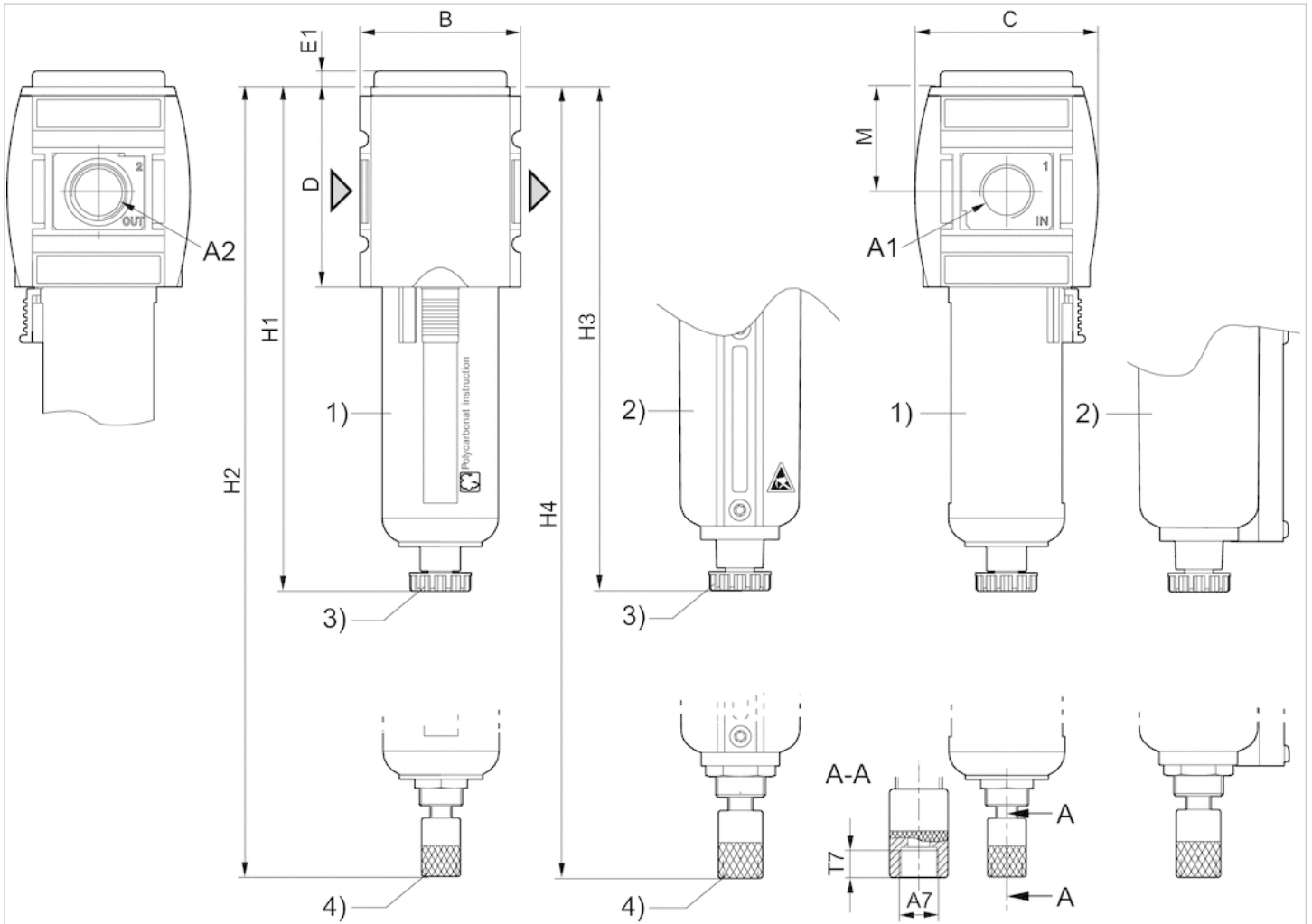
Max. achievable compressed air class acc. to ISO 8573-1:2010 1 : - : 2

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Filter insert	Borosilicate glass fiber

## Dimensions

### Dimensions



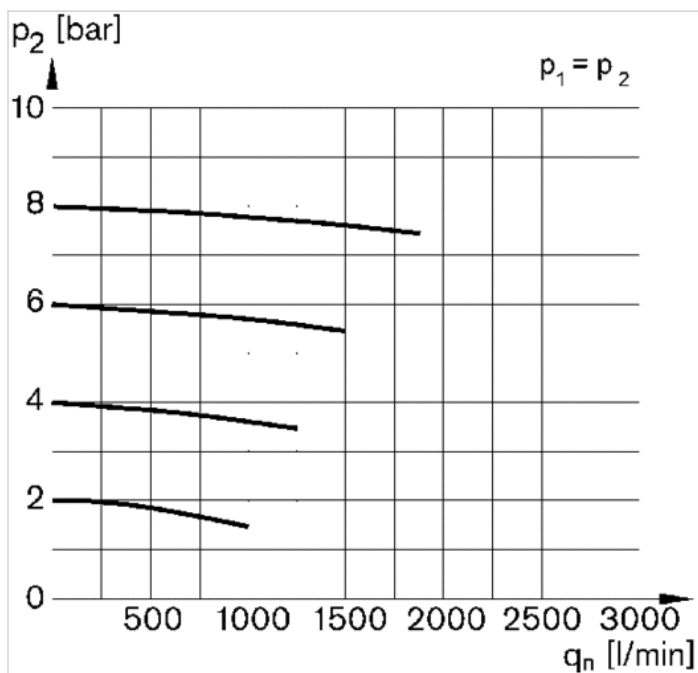
- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain

### Dimensions in mm

A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M	T7
G 3/8	G 3/8	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5
G 1/2	G 1/2	G 1/8	63	74	80	5	189.5	206	193.5	210.5	42.5	8.5

## Diagrams

### Flow rate characteristic

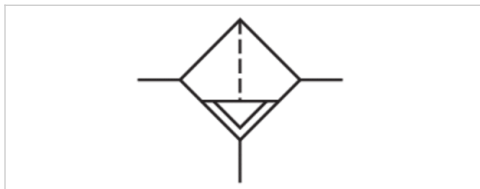


$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow



# Microfilter, Series AS3-FLC

- G 3/8, G 1/2
- contamination display integrated
- suitable for ATEX



Version	Microfilter, Can be assembled into blocks
Parts	Microfilter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	1.66 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
contamination display	integrated
Weight	See table below

## Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412007054	G 3/8	0.711 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007055	G 3/8	0.711 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007056	G 3/8	0.711 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007060	G 3/8	0.711 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007061	G 3/8	0.711 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007062	G 3/8	0.711 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007063	G 1/2	0.711 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007064	G 1/2	0.711 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007065	G 1/2	0.711 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412007069	G 1/2	0.711 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412007070	G 1/2	0.711 Cv	22 ... 232 psi	fully automatic, open without pressure
R412007071	G 1/2	0.711 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412007054	Polycarbonate	Polyamide	0.796 lbs
R412007055	Polycarbonate	Polyamide	0.904 lbs
R412007056	Polycarbonate	Polyamide	0.904 lbs
R412007060	Die cast zinc, with window	-	1.73 lbs
R412007061	Die cast zinc, with window	-	1.67 lbs
R412007062	Die cast zinc, with window	-	1.67 lbs
R412007063	Polycarbonate	Polyamide	0.796 lbs

Part No.	Reservoir	Protective guard	Weight
R412007064	Polycarbonate	Polyamide	0.904 lbs
R412007065	Polycarbonate	Polyamide	1.68 lbs
R412007069	Die cast zinc, with window	-	1.68 lbs
R412007070	Die cast zinc, with window	-	1.62 lbs
R412007071	Die cast zinc, with window	-	1.62 lbs

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 1.45$  psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

Recommended pre-filtering 0.3 µm

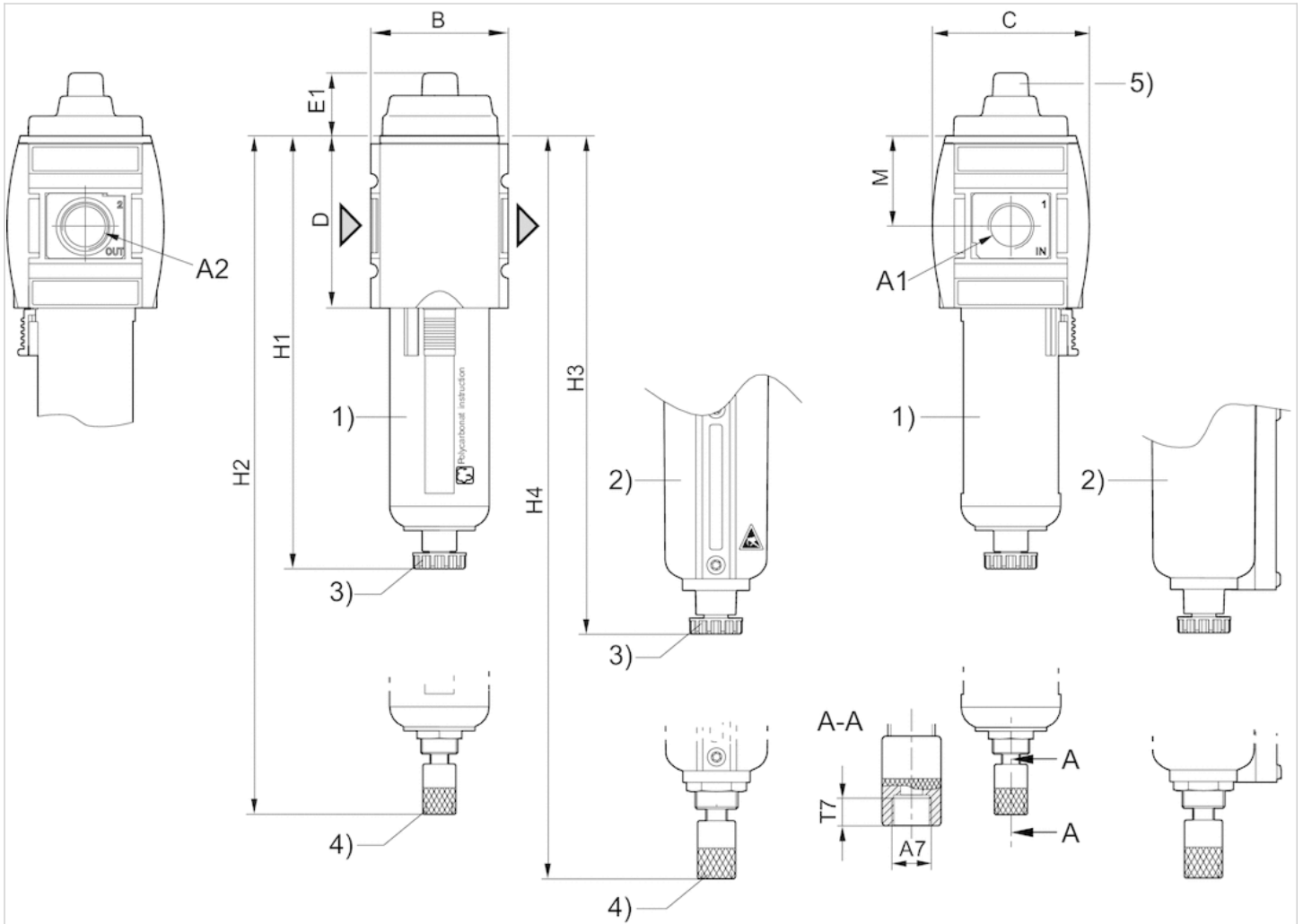
Max. achievable compressed air class acc. to ISO 8573-1:2010 1 : - : 2

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Filter insert	Borosilicate glass fiber

# Dimensions

## 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

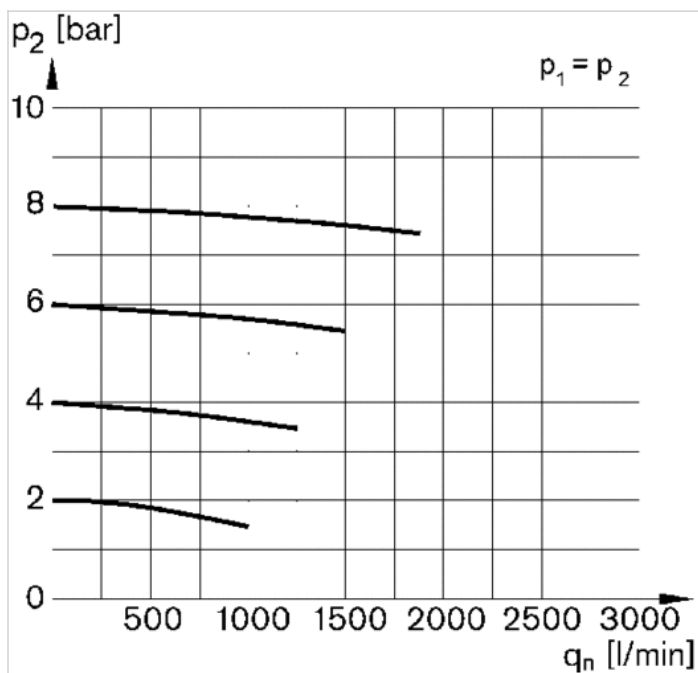
5) contamination display

## Dimensions in mm

A1	A2	A7	B	C	D	E1	H1	H2	H3	H4	M	T7
G 3/8	G 3/8	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5	8.5
G 1/2	G 1/2	G 1/8	63	74	80	23.7	189.5	206	193.5	210.5	42.5	8.5

## Diagrams

### Flow rate characteristic

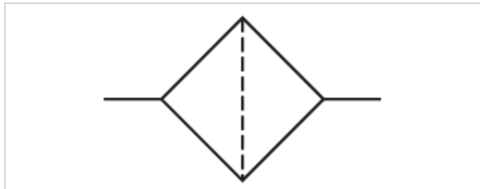


$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

# Active carbon filter, Series AS3-FLA

- G 3/8, G 1/2

- suitable for ATEX



Version

Active carbon filter, Can be assembled into blocks

Parts

Active carbon filter

Mounting orientation

vertical

Certificates

suitable for ATEX

Working pressure min./max.

0 ... 232 psi

Ambient temperature min./max.

14 ... 122 °F

Medium temperature min./max.

14 ... 122 °F

Medium

Compressed air, Neutral gases

Filter reservoir volume

1.66 fl.oz.

Filter element

exchangeable

Condensate drain

without

Weight

See table below

## Technical data

Part No.	Port	Qn	Reservoir	Protective guard	Weight
R412007072	G 3/8	1.02 Cv	Polycarbonate	Polyamide	0.827 lbs
R412007074	G 3/8	1.02 Cv	Die cast zinc, with window	-	1.66 lbs
R412007075	G 1/2	1.02 Cv	Polycarbonate	Polyamide	0.827 lbs
R412007077	G 1/2	1.02 Cv	Die cast zinc, with window	-	1.61 lbs

Nominal flow Qn with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 1.45$  psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Recommended pre-filtering 0.01  $\mu$ m

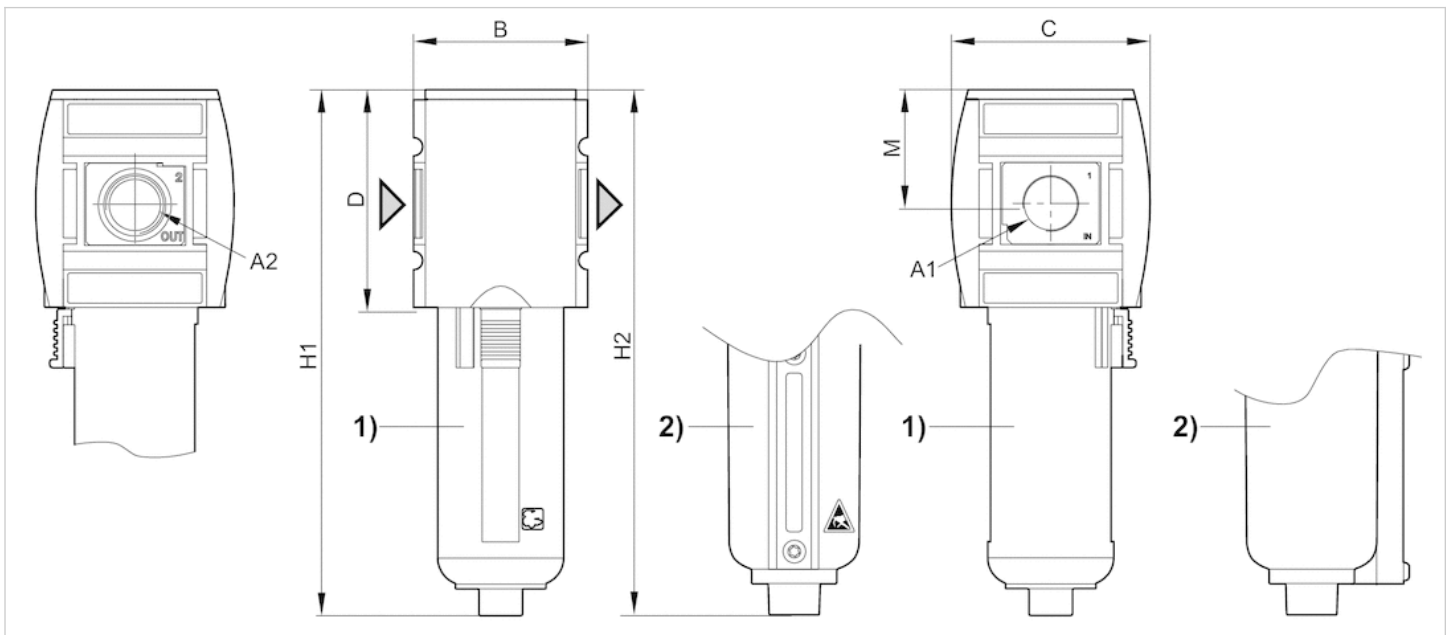
Max. achievable compressed air class acc. to ISO 8573-1:2010 - : - : 1

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Filter insert	Active carbon

## Dimensions

### Dimensions



A1 = input

A2 = output

1) Plastic reservoir and protective guard with window

2) Metal reservoir with inspection glass

### Dimensions in mm

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

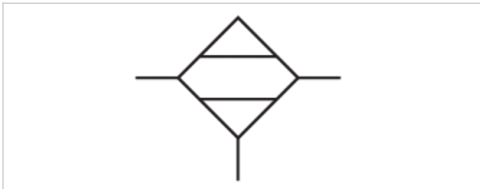
# Diaphragm-type dryer, Series AS3-ADD

- G 1/2

- suitable for ATEX



Version	Diaphragm-type dryer
Parts	Diaphragm-type dryer
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	58 ... 181 psi
Ambient temperature min./max.	36 ... 122 °F
Medium temperature min./max.	36 ... 122 °F
Medium	Compressed air, Neutral gases
Filter element	not exchangeable
Lowering pressure dew point	68 °F
Weight	See table below



## Technical data

Part No.	Port	Flow	Reservoir	Weight	Fig.	
		Qn				
R412007078	G 1/2	0.406 Cv	Aluminum	4.48 lbs	Fig. 1	1)
R412007079	G 1/2	0.508 Cv	Aluminum	7.19 lbs	Fig. 2	2)
R412007080	G 1/2	0.671 Cv	Aluminum	7.85 lbs	Fig. 2	2)
R412007081	G 1/2	0.965 Cv	Aluminum	8.6 lbs	Fig. 2	2)

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

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Notice: air may not contain condensate  
purge air approx. 12% of nominal flow Qn

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Recommended pre-filtering,  $\mu\text{m}$  5

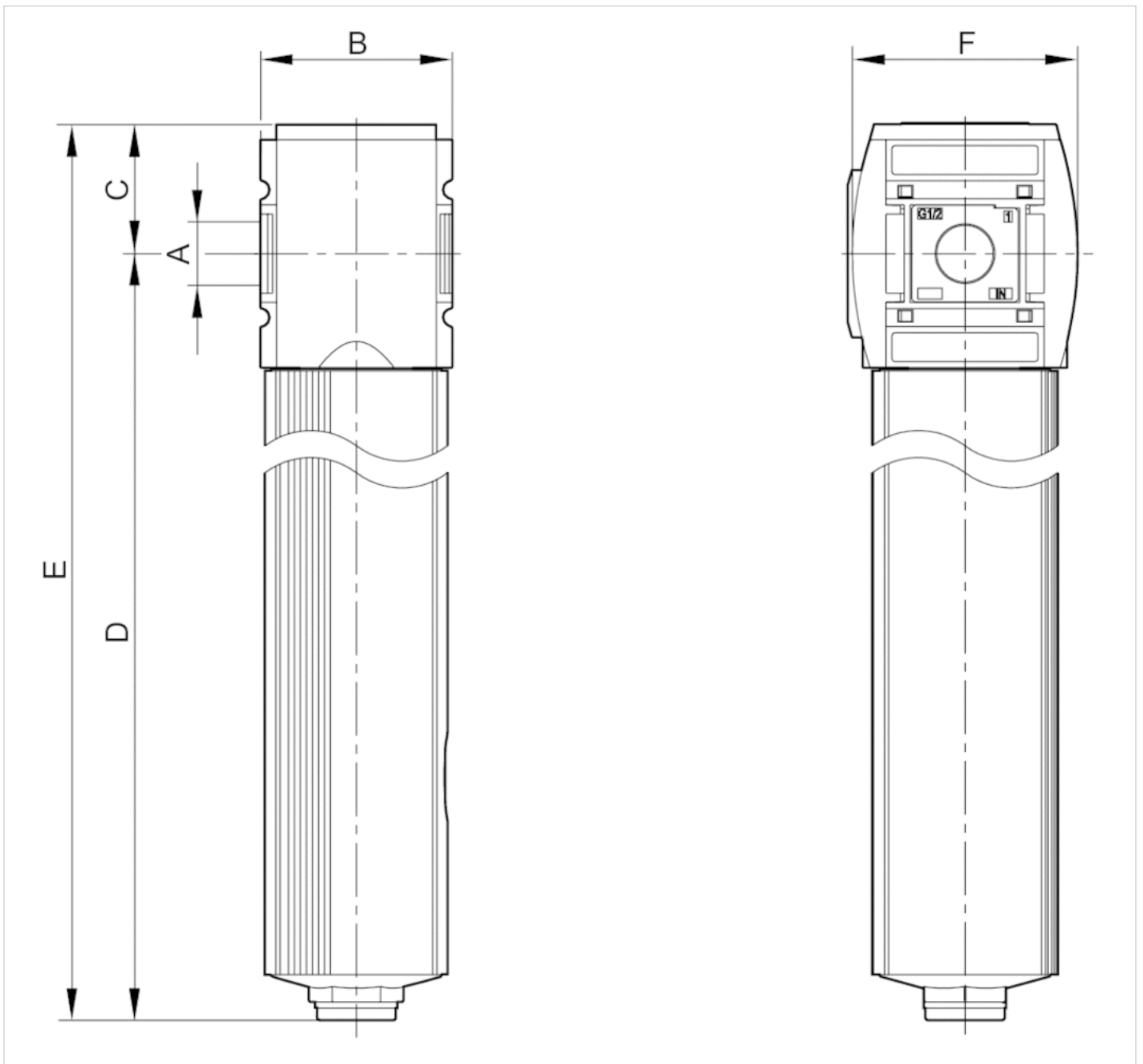
0.01  $\mu\text{m}$

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seal	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Aluminum

## Dimensions

Dimensions Fig. 1



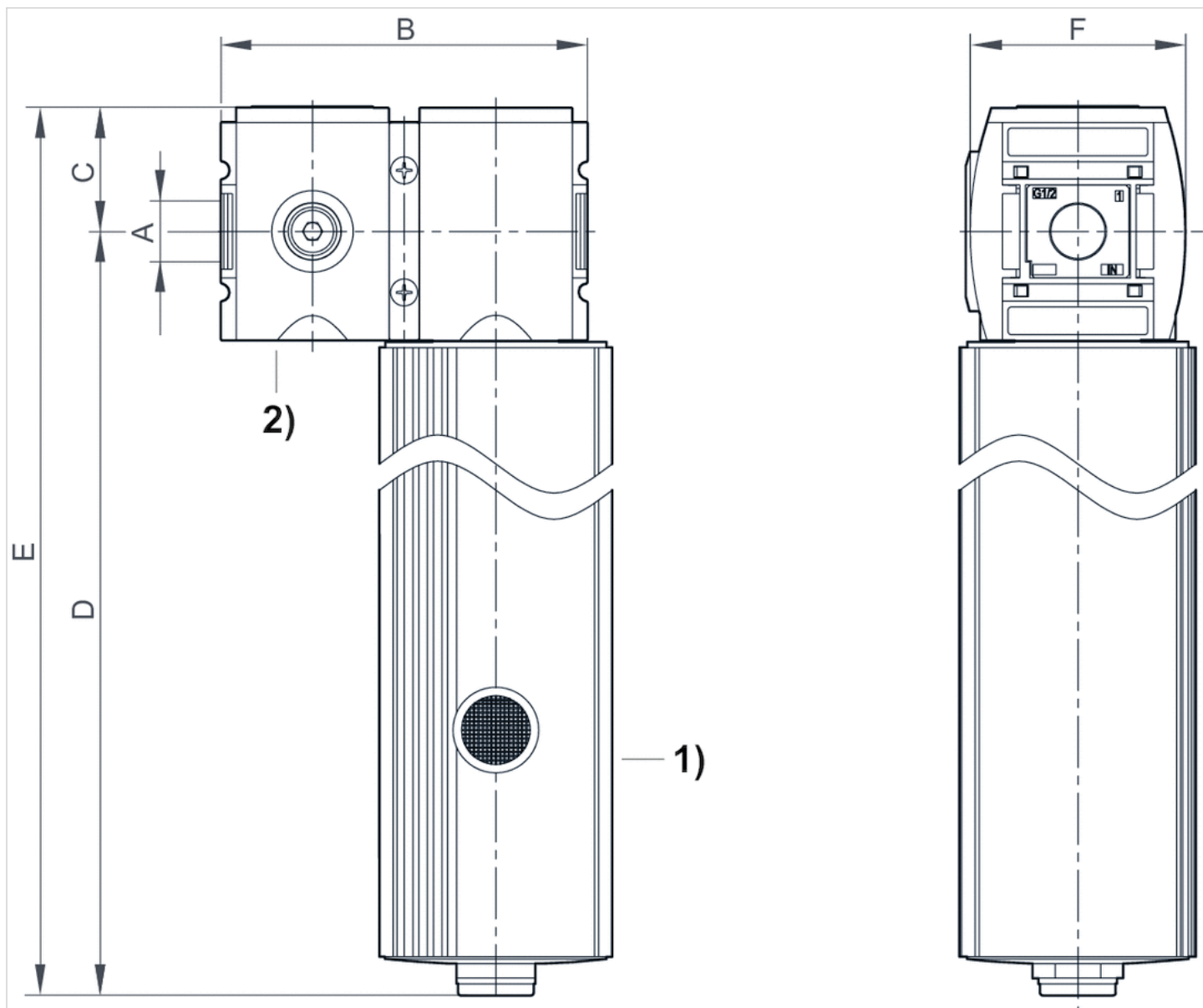


Dimensions in mm

A	B	C	D	E	F
G 1/2	63	43	478	521	74

Dimensions

Dimensions Fig. 2



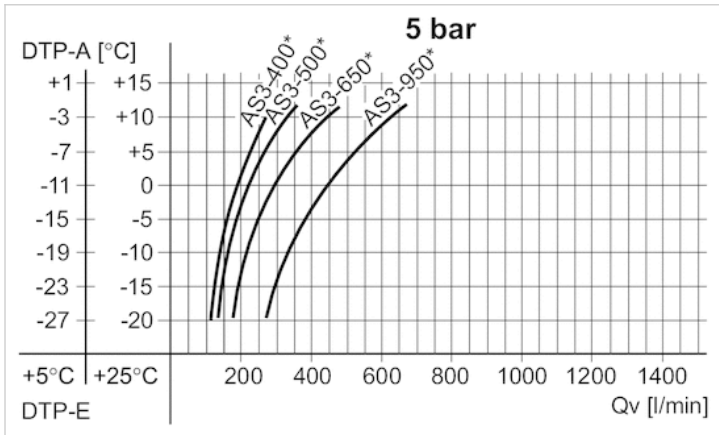
- 1) Diaphragm-type dryer
- 2) Incl. second distributor

Dimensions in mm

A	B	C	D	E	F
G 1/2	126	43	464	507	74
G 1/2	126	43	515	558	74
G 1/2	126	43	584	627	74

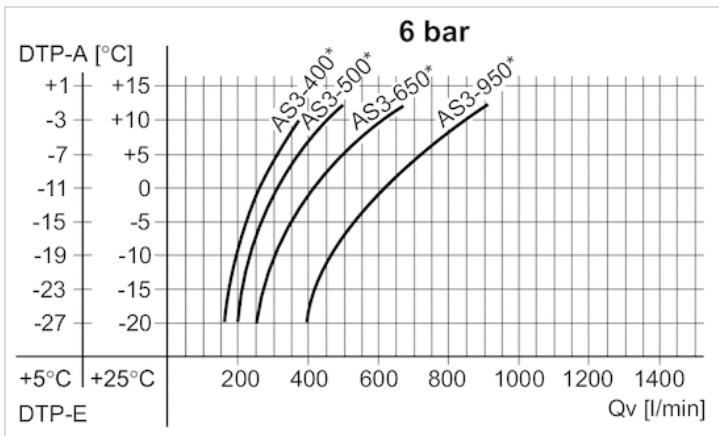
# Diagrams

## performance charts



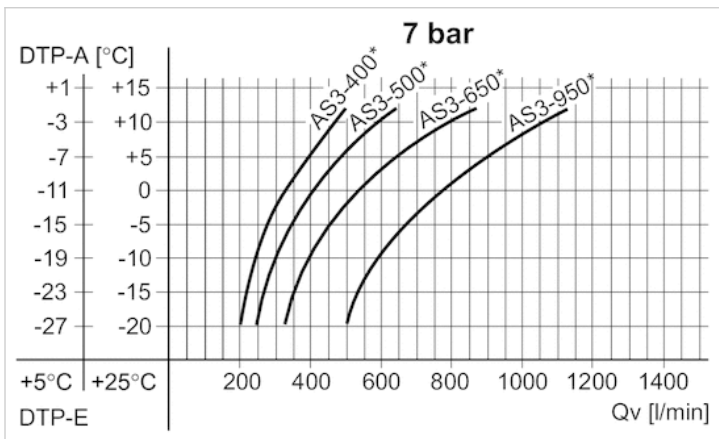
DTP-E: pressure dew point input  
 DTP-A: pressure dew point output  
 Qv: input flow rate (nominal flow rate Qn + purge air)  
 For different conditions, please contact the nearest AVENTICS sales office.  
 \* Nominal flow Qn

## performance charts



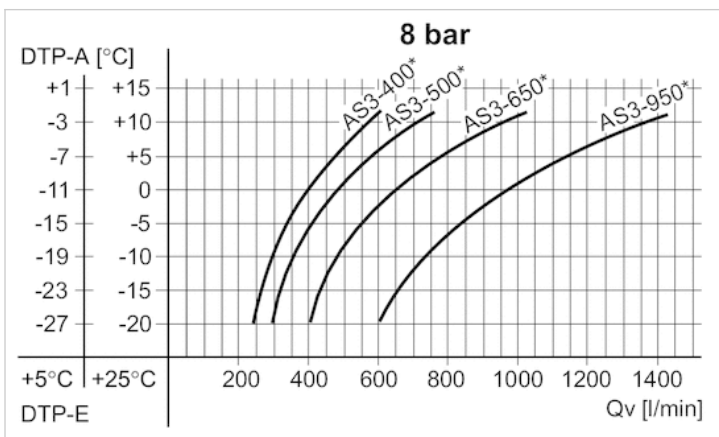
DTP-E: pressure dew point input  
 DTP-A: pressure dew point output  
 Qv: input flow rate (nominal flow rate Qn + purge air)  
 For different conditions, please contact the nearest AVENTICS sales office.  
 \* Nominal flow Qn

performance charts



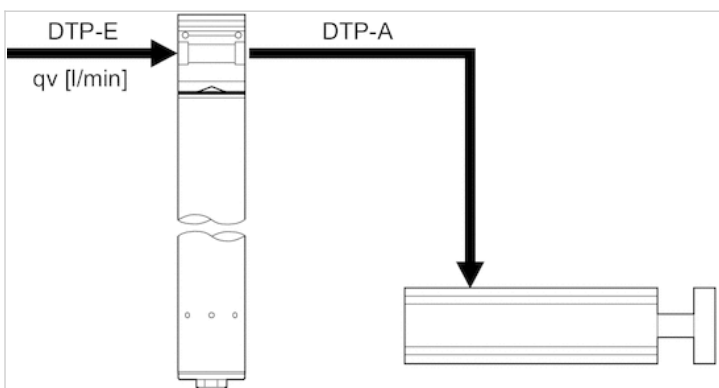
DTP-E: pressure dew point input  
 DTP-A: pressure dew point output  
 Qv: input flow rate (nominal flow rate Qn + purge air)  
 For different conditions, please contact the nearest AVENTICS sales office.  
 \* Nominal flow Qn

performance charts

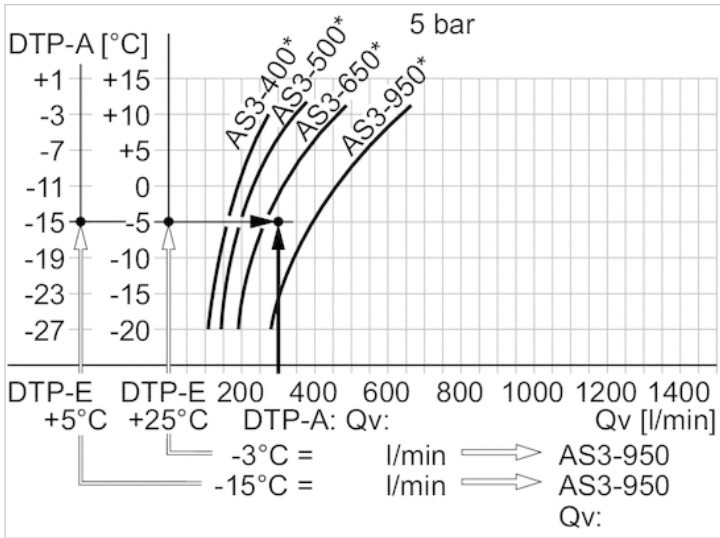


DTP-E: pressure dew point input  
 DTP-A: pressure dew point output  
 Qv: input flow rate (nominal flow rate Qn + purge air)  
 For different conditions, please contact the nearest AVENTICS sales office.  
 \* Nominal flow Qn

Example



Example



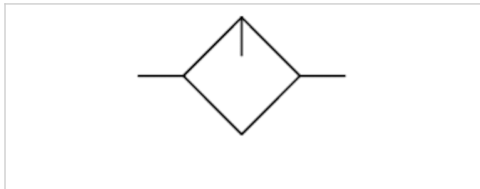
Result: membrane dryer series AS3-950  
(with a Qn of 950 l/min), part no. R412007081

\* Nominal flow Qn

# Standard oil-mist lubricator, Series AS3-LBS

- G 3/8, G 1/2

- suitable for ATEX



Version	Oil-mist lubricator, Can be assembled into blocks
Parts	Standard oil-mist lubricator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	8 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Lubricator reservoir volume	2.71 fl.oz.
Type of filling	Semi-automatic oil filling during operation, Manual oil filling
Weight	See table below

## Technical data

Part No.	Port	Nominal flow Qn	Reservoir	Protective guard	Weight	
R412007225	G 3/8	8.13 Cv	Polycarbonate	Polyamide	0.756 lbs	1)
R412007226	G 3/8	8.13 Cv	Polycarbonate	Polyamide	0.756 lbs	2)
R412007229	G 3/8	8.13 Cv	Die cast zinc, with window	-	1.65 lbs	1)
R412007231	G 1/2	8.13 Cv	Polycarbonate	Polyamide	0.756 lbs	1)
R412007232	G 1/2	8.13 Cv	Polycarbonate	Polyamide	0.756 lbs	2)
R412007235	G 1/2	8.13 Cv	Die cast zinc, with window	-	1.6 lbs	1)

Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 14.5$  psi

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

2) Electrical level detection, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Electrical level detection only with ST6 sensor with reed contact, sensor holder included in the scope of the delivery.

Sensor not included in scope of delivery, sensor installation prepared.

The entire preset drip quantity enters the pressure system

Manual oil filling possible during operation at a maximum operating pressure of 10 bar.

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

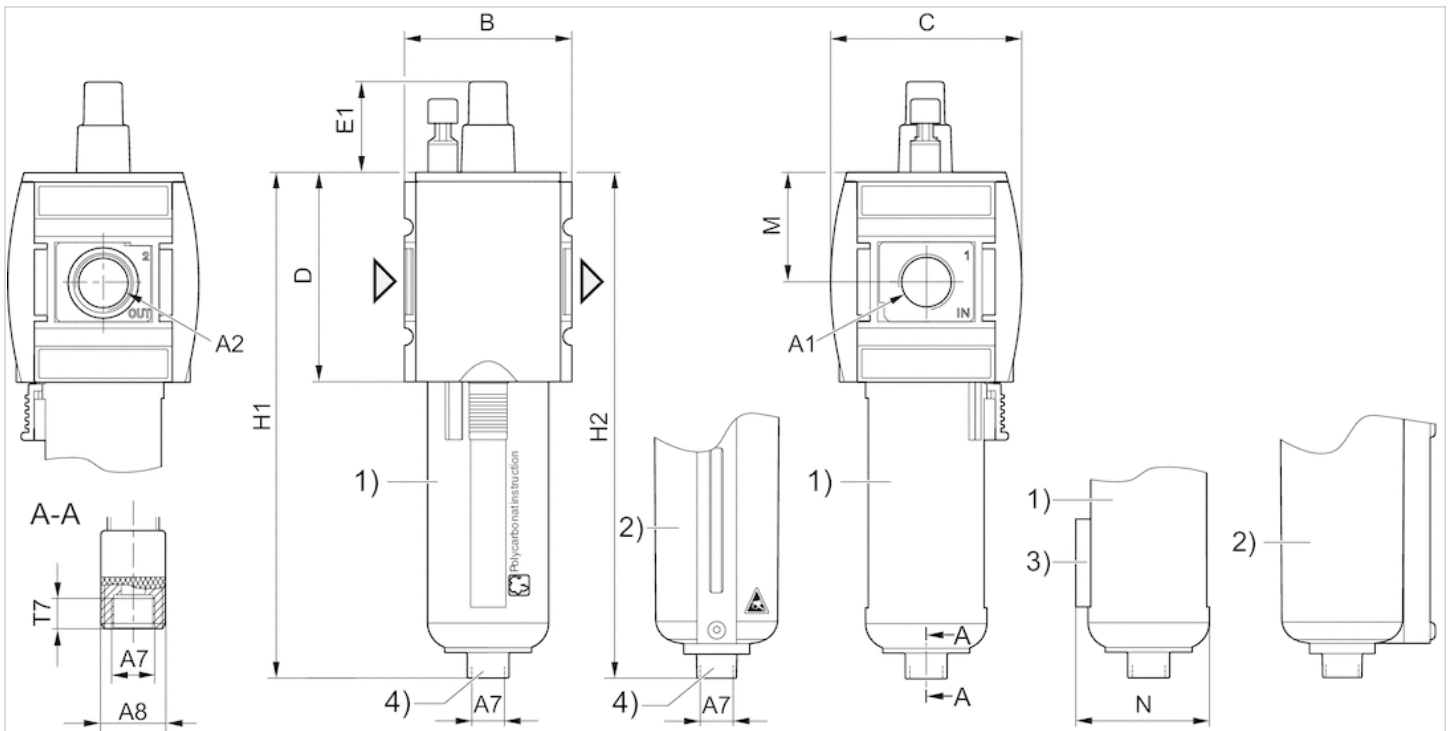
Oil dosing at 1 Cv 1-2 drops

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide

## Dimensions

### Dimensions



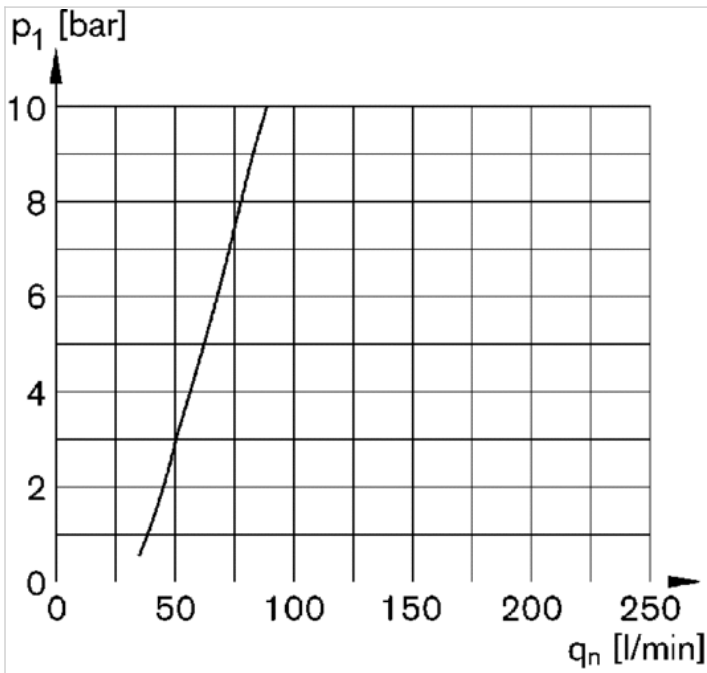
- A1 = input
- A2 = output
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Holder for sensor
- 4) Port for semi-automatic oil filling

### Dimensions in mm

A1	A2	A7	A8	B	C	D	E1	H1	H2	M	N	T7
G 3/8	G 3/8	G 1/8	G 1/4	63	74	80	27.5	183	187	42.5	48	7
G 1/2	G 1/2	G 1/8	G 1/4	63	74	80	27.5	183	187	42.5	48	7

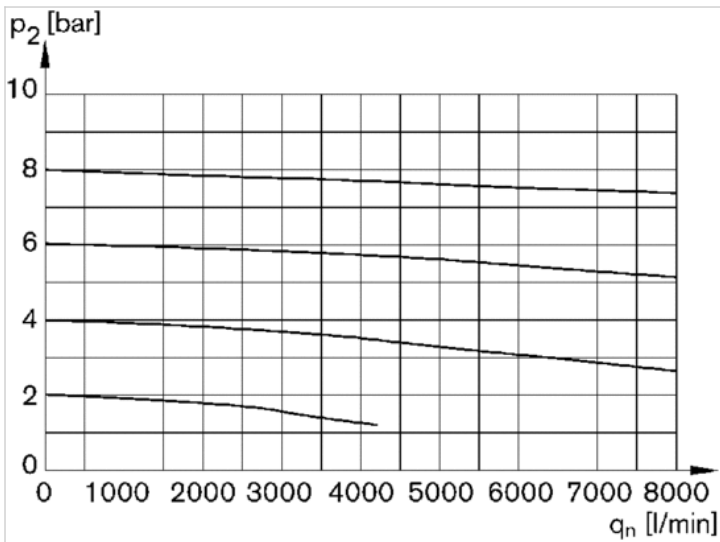
## Diagrams

### Lubricator activation margin



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

### Flow rate characteristic



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



















# Filling unit, electrically operated, Series AS3-SSU

- Compressed air connection G 3/8, G 1/2
- Pipe connection
- ATEX optional



Version	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow	3.56 Cv
Nominal flow 1 ▶ 2	3.56 Cv
Nominal flow 2 ▶ 3	3.25 Cv
Working pressure min./max.	37 ... 145 psi
Medium	Compressed air, Neutral gases
Medium temperature min./max.	14 ... 122 °F
Ambient temperature min./max.	14 ... 122 °F
Pilot	Internal
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class acc. to DIN EN 61140, with plug	IP65
Duty cycle	100 %
Weight	See table below

## Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412007277		—	G 3/8	G 3/8	G 1/2
R412007286		—	G 3/8	G 1/2	G 1/2
R412007282		—	G 1/2	G 1/2	G 1/2
R412007287		—	G 1/2	G 1/2	G 1/2
R412007278			G 3/8	G 3/8	G 1/2
R412007279			G 3/8	G 3/8	G 1/2
R412007280			G 3/8	G 3/8	G 1/2
R412007394			G 1/2	-	G 1/2
R412007283			G 1/2	G 1/2	G 1/2
R412007284			G 1/2	G 1/2	G 1/2
R412007285			G 1/2	G 1/2	G 1/2

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412007277	-	-	-
R412007286	-	-	-
R412007282	-	-	-
R412007287	-	-	-
R412007278	24 V	-	-
R412007279	-	110 V	110 V



Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412007280	-	220 V	230 V
R412007394	24 V	-	-
R412007283	24 V	-	-
R412007284	-	110 V	110 V
R412007285	-	220 V	230 V

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R412007277	-	-	-	-
R412007286	-	-	-	-
R412007282	-	-	-	-
R412007287	-	-	-	-
R412007278	2 W	-	-	-
R412007279	-	1.6 VA	1.4 VA	2.2 VA
R412007280	-	1.6 VA	1.4 VA	2.2 VA
R412007394	2 W	-	-	-
R412007283	2 W	-	-	-
R412007284	-	1.6 VA	1.4 VA	2.2 VA
R412007285	-	1.6 VA	1.4 VA	2.2 VA

Part No.	Switch-on power	Electrical connection	Connector standard
	AC 60 Hz	Pilot valve	
R412007277	-	-	-
R412007286	-	-	-
R412007282	-	-	-
R412007287	-	-	-
R412007278	-	Plug, ISO 15217, form C	ISO 15217
R412007279	1.6 VA	Plug, M12x1	-
R412007280	1.6 VA	Plug, ISO 15217, form C	ISO 15217
R412007394	-	Plug, M12x1	-
R412007283	-	Plug, ISO 15217, form C	ISO 15217
R412007284	1.6 VA	Plug, ISO 15217, form C	ISO 15217
R412007285	1.6 VA	Plug, ISO 15217, form C	ISO 15217

Part No.	basic valve with electrical connector
R412007277	Basic valve without pilot valve
R412007286	Basic valve without pilot valve, with CNOMO subbase
R412007282	Basic valve without pilot valve
R412007287	Basic valve without pilot valve, with CNOMO subbase
R412007278	Basic valve with pilot valve
R412007279	Basic valve with pilot valve
R412007280	Basic valve with pilot valve
R412007394	Basic valve with pilot valve
R412007283	Basic valve with pilot valve
R412007284	Basic valve with pilot valve
R412007285	Basic valve with pilot valve

Part No.	Reverse polarity protection	Weight	Fig.	
R412007277	-	1.96 lbs	Fig. 1	1)
R412007286	-	1.97 lbs	Fig. 2	1)
R412007282	-	1.96 lbs	Fig. 1	1)
R412007287	-	1.97 lbs	Fig. 2	1)
R412007278	Protected against polarity reversal	2.04 lbs	Fig. 3	-
R412007279	Protected against polarity reversal	2.04 lbs	Fig. 3	-
R412007280	Protected against polarity reversal	2.04 lbs	Fig. 3	-
R412007394	Protected against polarity reversal	1.98 lbs	Fig. 4	2)
R412007283	Protected against polarity reversal	2.04 lbs	Fig. 3	-
R412007284	Protected against polarity reversal	2.04 lbs	Fig. 3	-
R412007285	Protected against polarity reversal	2.04 lbs	Fig. 3	-

Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 1.45$  psi

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

2) With adjustment screw lock

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

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

Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

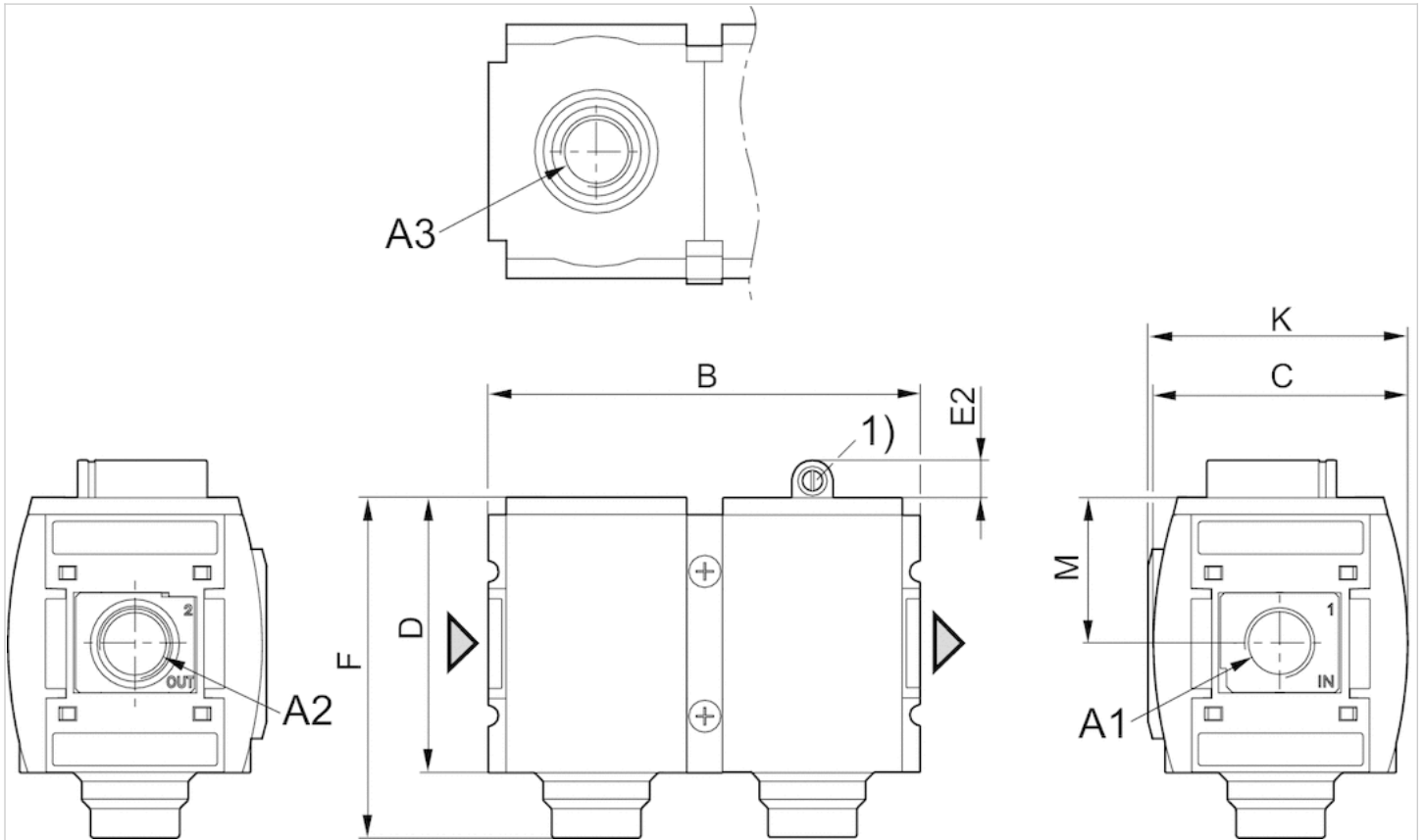
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

Fig. 1: Filling unit without pilot valve with porting configuration for series D016



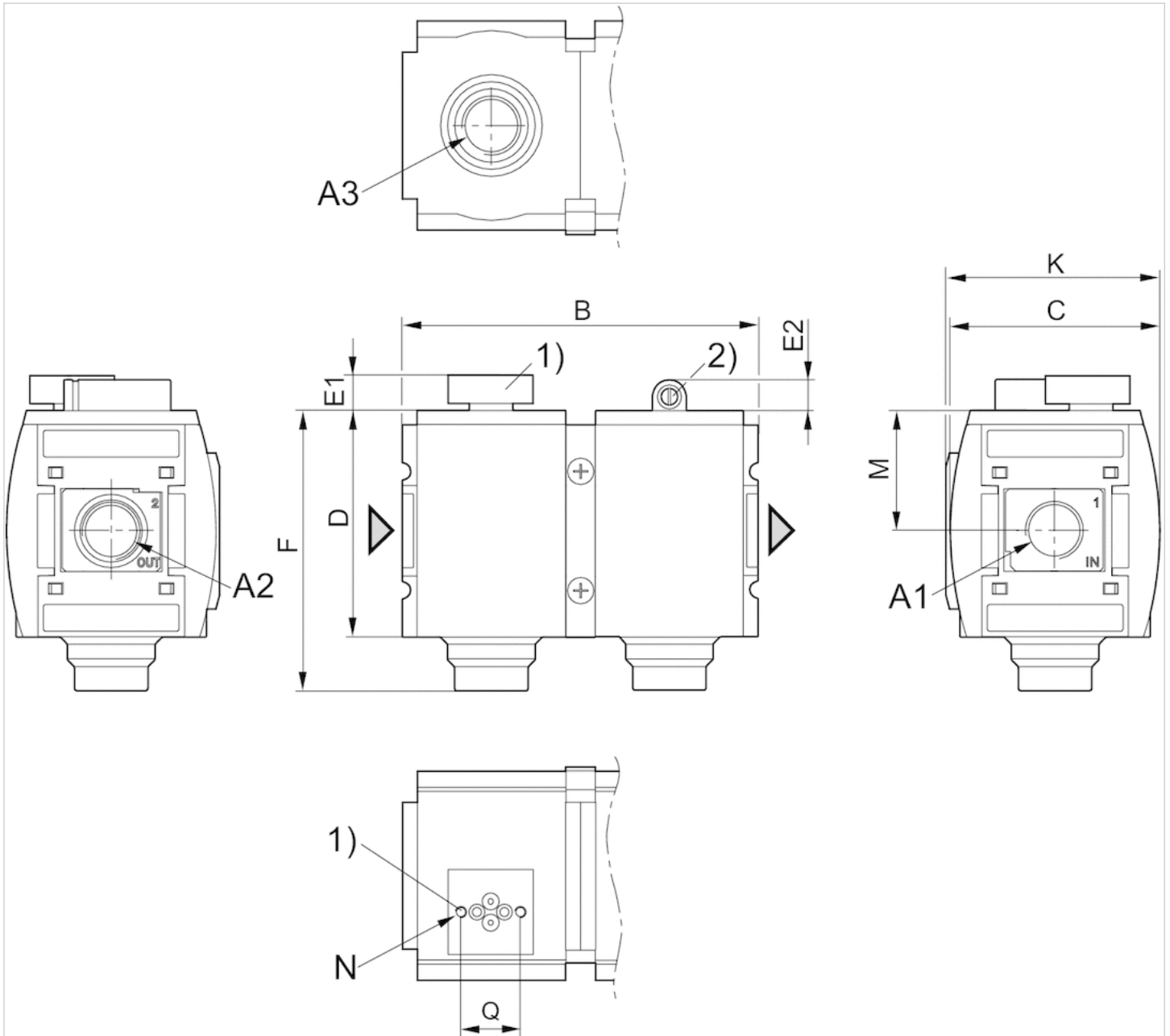
A1 = input  
 A2 = output  
 1) Adjustment screw for filling time

## Dimensions in mm

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

## Dimensions

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



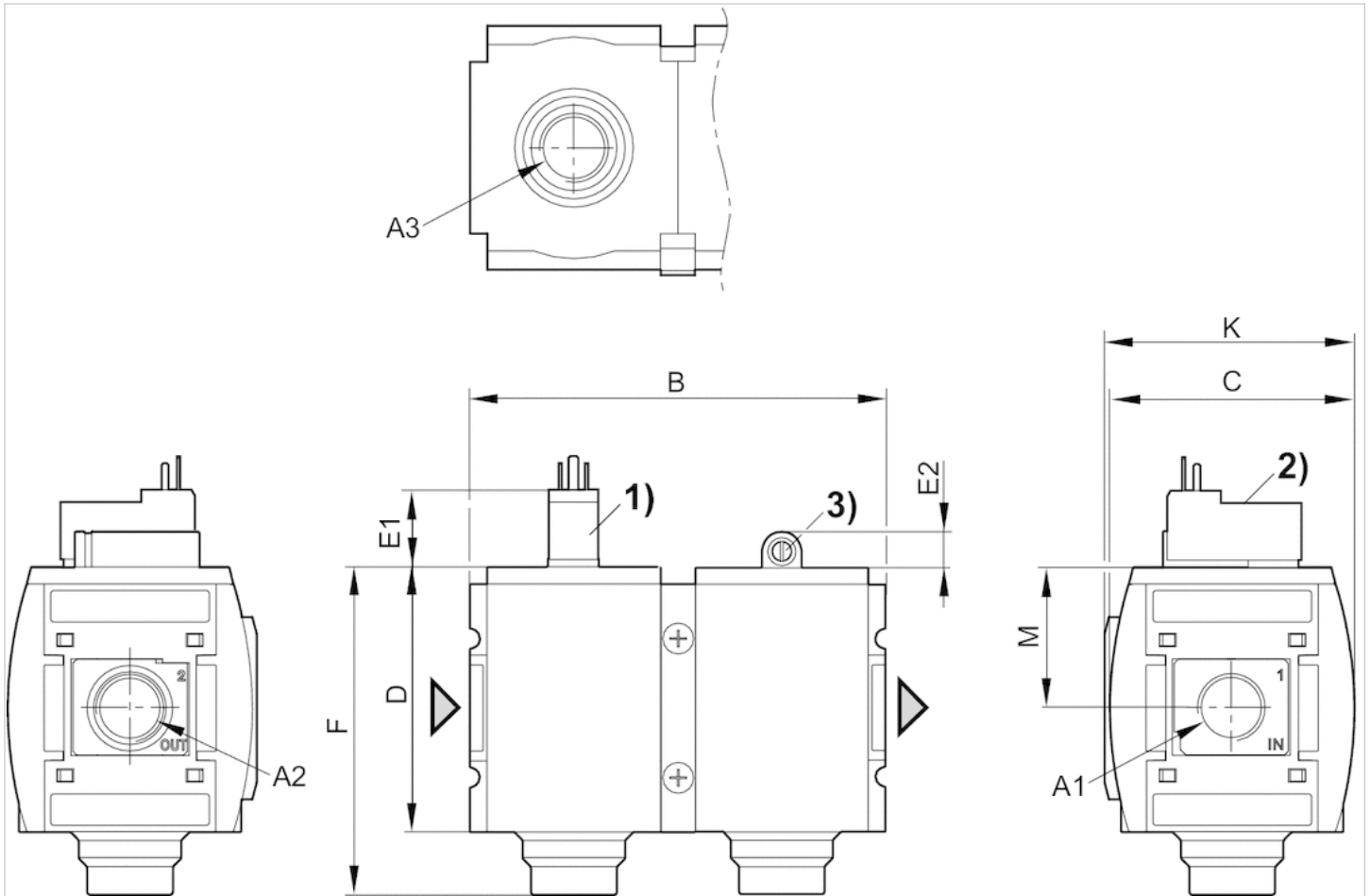
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Transition plate with CNOMO porting configuration for pilot valve DO30
- 2) Adjustment screw for filling time

## Dimensions in mm

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

## Dimensions

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



A1 = input

A2 = output

A3 = ventilation port

1) Connection for valve plug connector according to ISO 15217 (form C)

2) Manual override

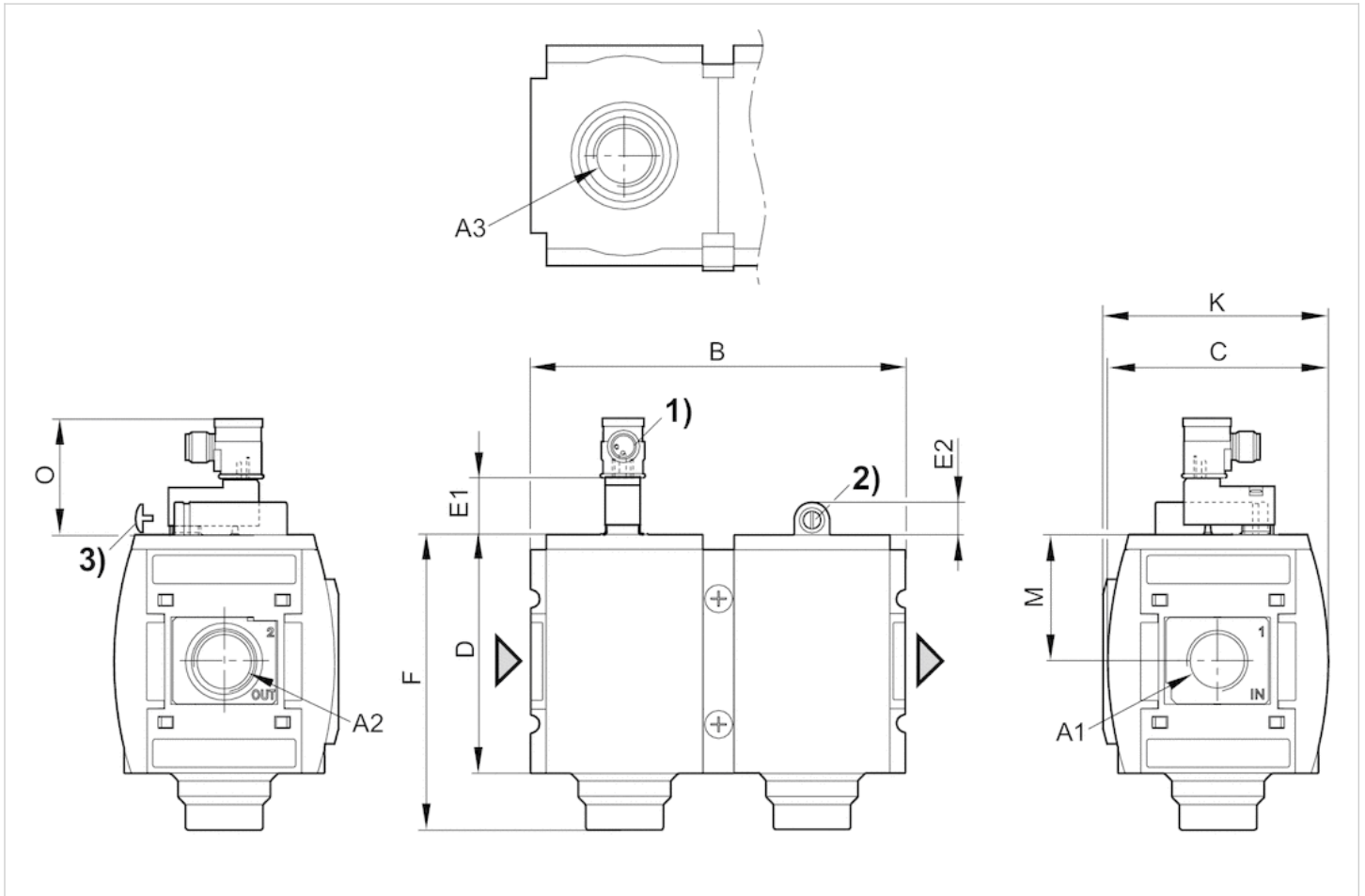
3) Adjustment screw for filling time

## Dimensions in mm

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

## Dimensions

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



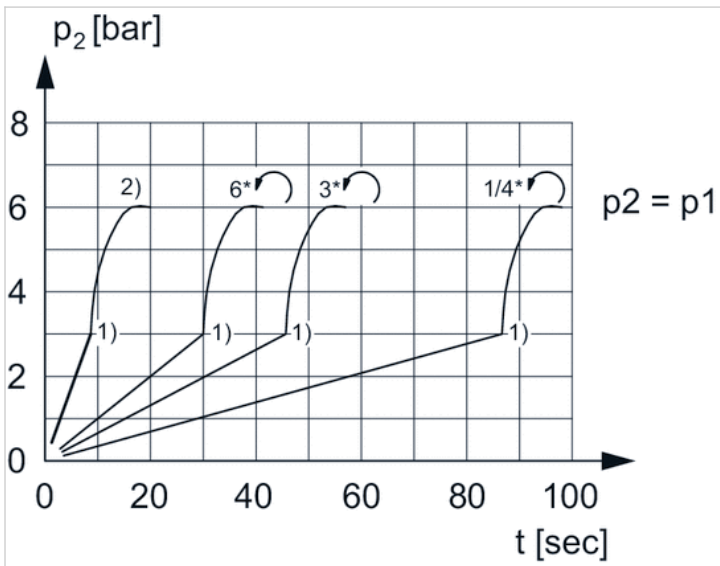
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Port for plug M12x1
- 2) Adjustment screw for filling time
- 3) Adjustment screw lock

## Dimensions in mm

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

## Diagrams

### secondary pressure while filling



p1 = working pressure

p2 = secondary pressure

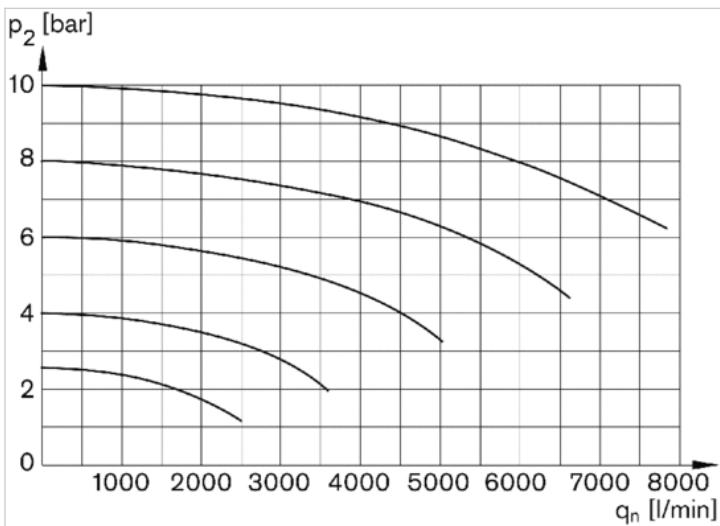
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure  $\approx 0.5 \times p1$  (50%)

2) Throttle fully opened

\* Adjustment screw rotations

### Flow rate characteristic

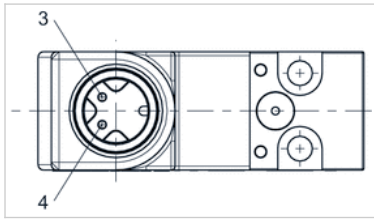


p2 = secondary pressure

qn = nominal flow

## Pin assignments

### Pin assignment M12x1



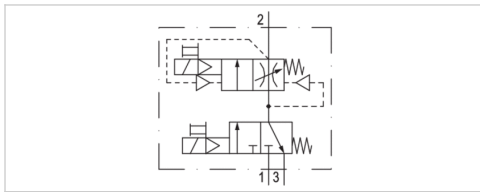
3: +/-

4: +/-





# Filling unit, electrically operated, Series AS3-SSU

- adjustable filling time and change-over pressure
- Compressed air connection G 1/2
- Pipe connection
- Electrical connection: Plug, M12x1
- ATEX optional



Version	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow	3.56 Cv
Nominal flow 1 ▶ 2	3.56 Cv
Nominal flow 2 ▶ 3	3.25 Cv
Working pressure min./max.	37 ... 145 psi
Medium	Compressed air, Neutral gases
Medium temperature min./max.	14 ... 122 °F
Ambient temperature min./max.	14 ... 122 °F
Pilot	Internal
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class acc. to DIN EN 61140, with plug	IP65
Duty cycle	100 %
Weight	2.04 lbs

## Technical data

Part No.		Compressed air connection input	Compressed air connection output	Operational voltage
				DC
R412007395		G 1/2	G 1/2	24 V

Part No.	Power consumption	Electrical connection	basic valve with electrical connector
	DC	Pilot valve	
R412007395	2 W	Plug, M12x1	Basic valve with pilot valve

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.

Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

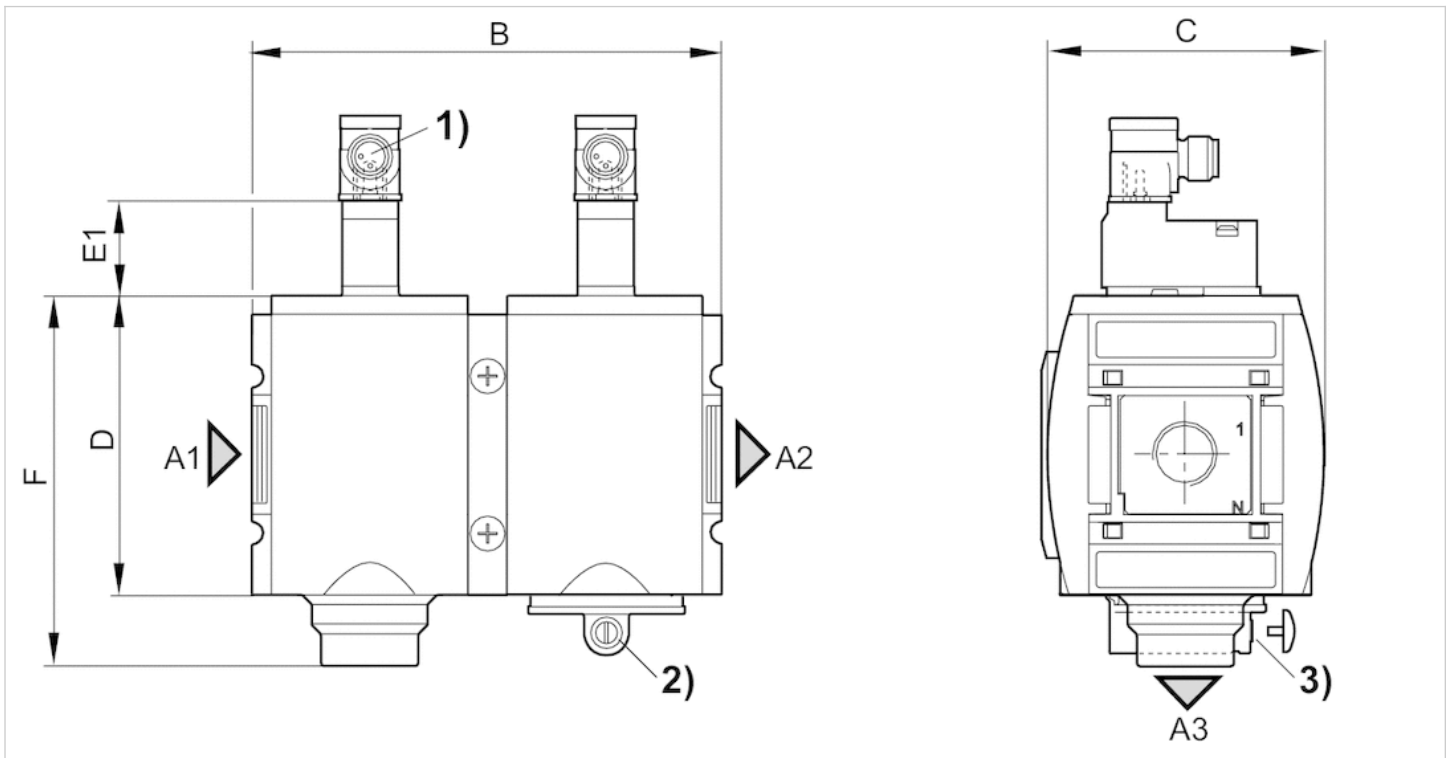
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions with pilot valve series D016



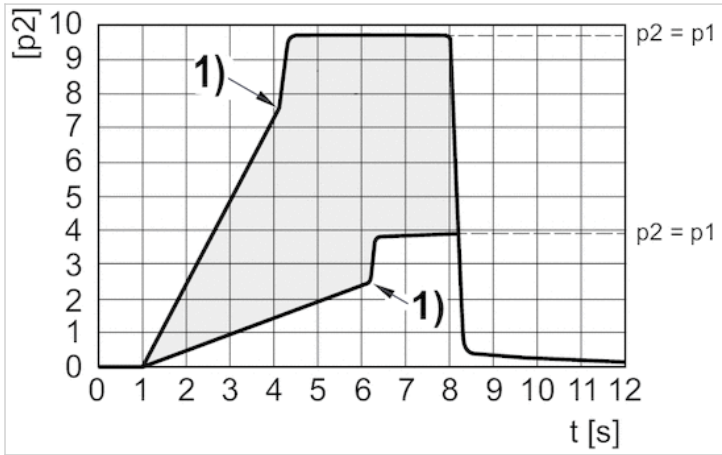
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Electr. connection: valve plug connector M12x1
- 2) Adjustment screw for filling time
- 3) Adjustment screw lock

### Dimensions in mm

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

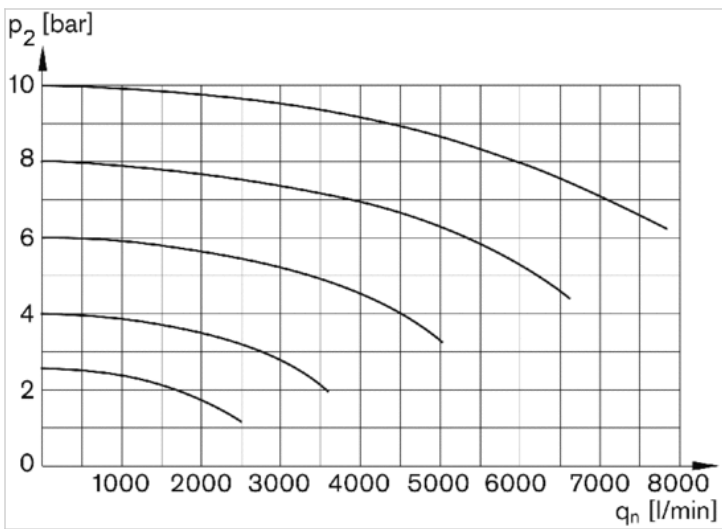
## Diagrams

### secondary pressure while filling



- p1 = working pressure
- p2 = secondary pressure
- t = filling time, adjustable via adjustment screw (throttle)
- Change-over pressure individually adjustable via electrical signal
- 1) Switching point: adjustable filling time and change-over pressure

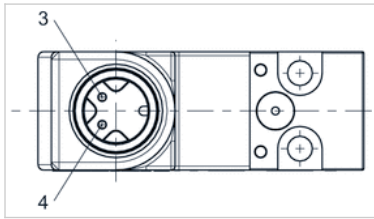
### Flow rate characteristic



- p2 = secondary pressure
- qn = nominal flow

## Pin assignments

### Pin assignment M12x1

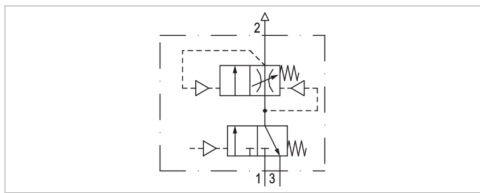


3: +/-

4: +/-

# Filling unit, pneumatically operated, Series AS3-SSU

- adjustable filling time
- Compressed air connection G 3/8, G 1/2
- Pipe connection
- ATEX optional



Version

Pilot

Sealing principle

Working pressure min./max.

Control pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Max. particle size

Weight

Poppet valve, Can be assembled into blocks

Internal

Soft sealing

0 ... 232 psi

37 ... 232 psi

14 ... 122 °F

14 ... 122 °F

Compressed air, Neutral gases

40 µm

2.04 lbs

The delivered product varies from that in the illustration. See the drawing for an exact description.

## Technical data

Part No.	Port	Pilot connection	Exhaust	Flow	Flow	Flow	
				Qn	Qn 1→2	Qn 2→3	
R412007276	G 3/8	G 1/8	G 1/2	3.56 Cv	3.56 Cv	3.25 Cv	1)
R412007281	G 1/2	G 1/8	G 1/2	3.56 Cv	3.56 Cv	3.25 Cv	1)
R412007289	G 1/2	G 1/8	G 1/2	3.56 Cv	3.56 Cv	3.25 Cv	2)

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

1)

2) With adjustment screw lock

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

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

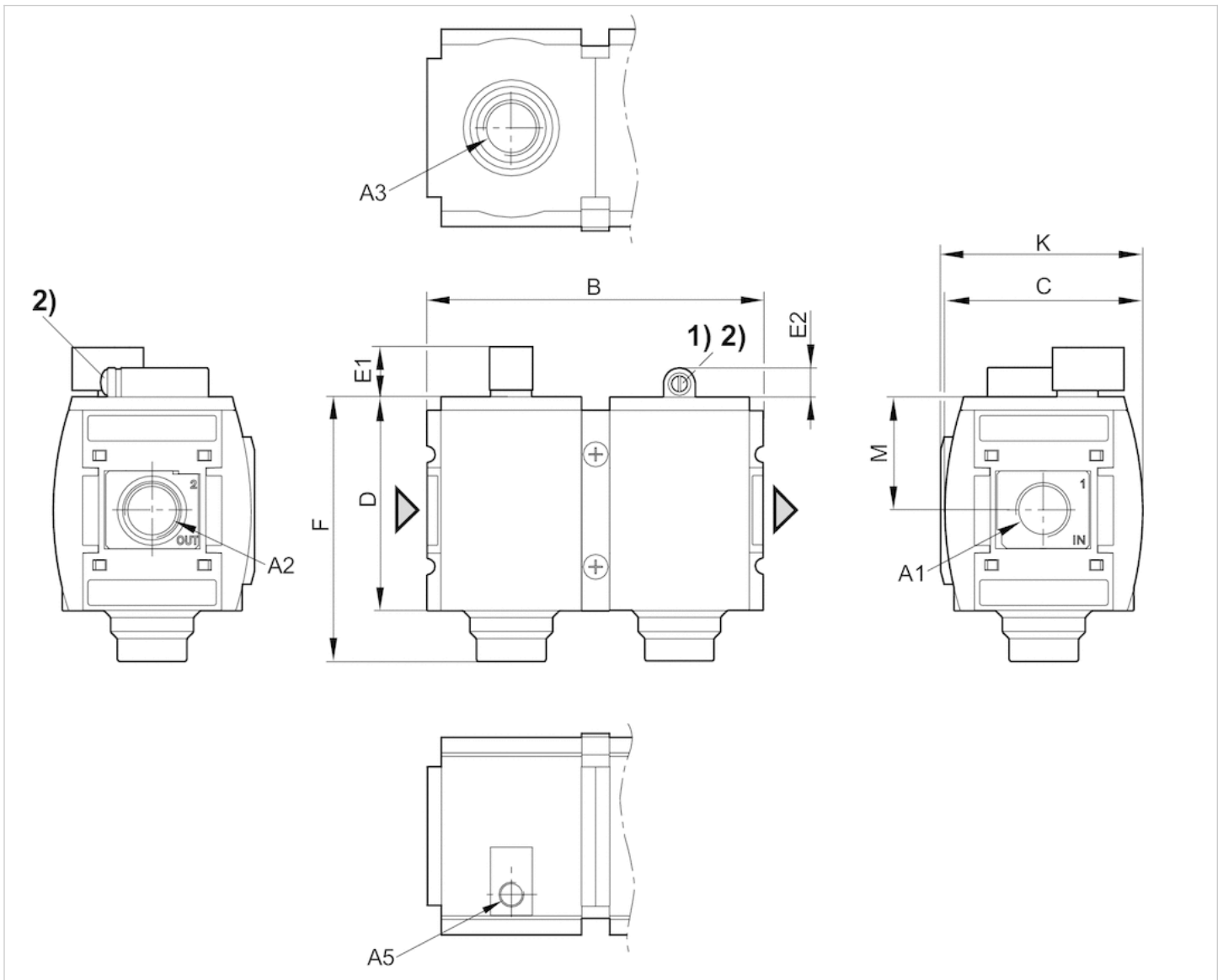
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



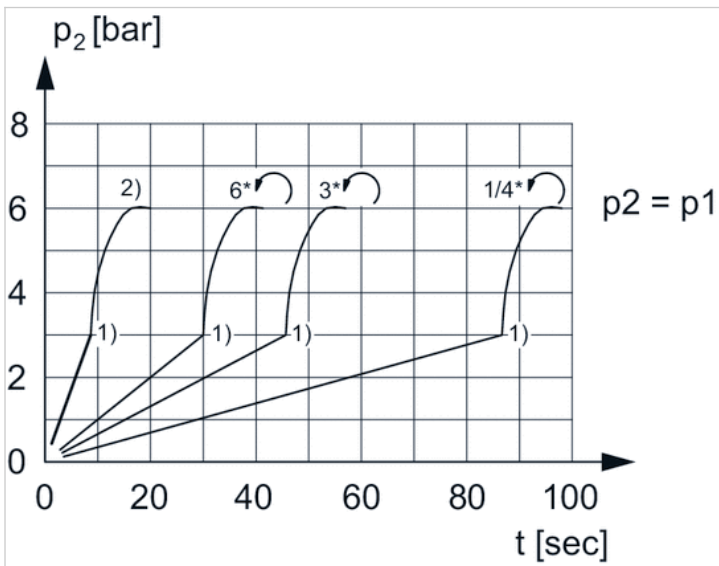
- A1 = input
- A2 = output
- A3 = ventilation port
- A5 = control pressure connection
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock

Dimensions in mm

A1	A2	A3	A5	B	C	D	E1	E2	F	K	M
G 3/8	G 3/8	G 1/2	G 1/8	125.75	74	80	18.5	11	99	75.5	42.5
G 1/2	G 1/2	G 1/2	G 1/8	125.75	74	80	18.5	11	99	75.5	42.5

Diagrams

Secondary pressure while filling



p1 = working pressure

p2 = secondary pressure

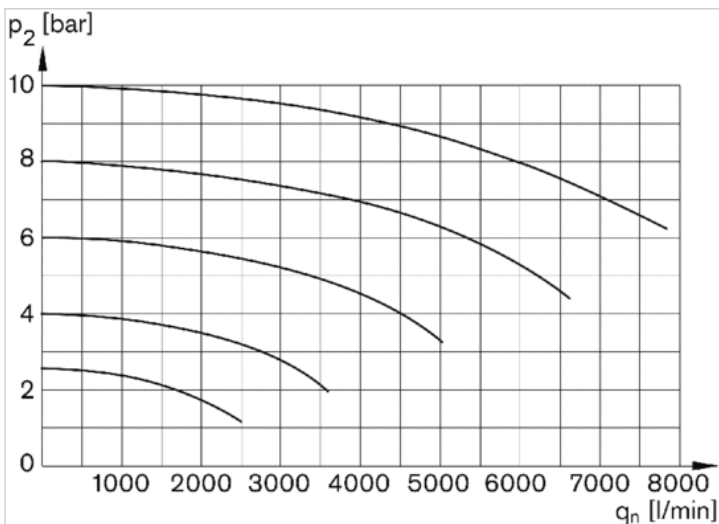
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure  $\approx 0.5 \times p1$  (50%)

2) Throttle fully opened

\* Adjustment screw rotations

Flow rate characteristic

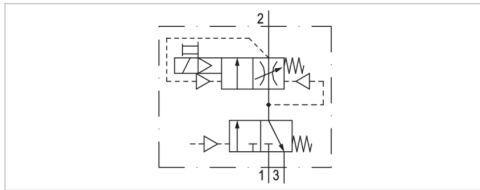


p2 = secondary pressure

qn = nominal flow

# Filling unit, pneumatically operated, Series AS3-SSU

- adjustable filling time and change-over pressure
- Compressed air connection G 1/2
- Pipe connection



Version	Poppet valve, Can be assembled into blocks
Pilot	Internal
Sealing principle	Soft sealing
Working pressure min./max.	0 ... 232 psi
Control pressure min./max.	37 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	25 µm
Duty cycle	100 %
Protection class according to EN 60529:2000, without electrical connector	IP65
Weight	2.04 lbs

The delivered product varies from that in the illustration. See the drawing for an exact description.

## Technical data

Part No.	Port	Exhaust	Flow	Flow	Flow
			Qn	Qn 1→2	Qn 2→3
R412007393	G 1/2	G 1/2	3.56 Cv	3.56 Cv	3.25 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.

Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

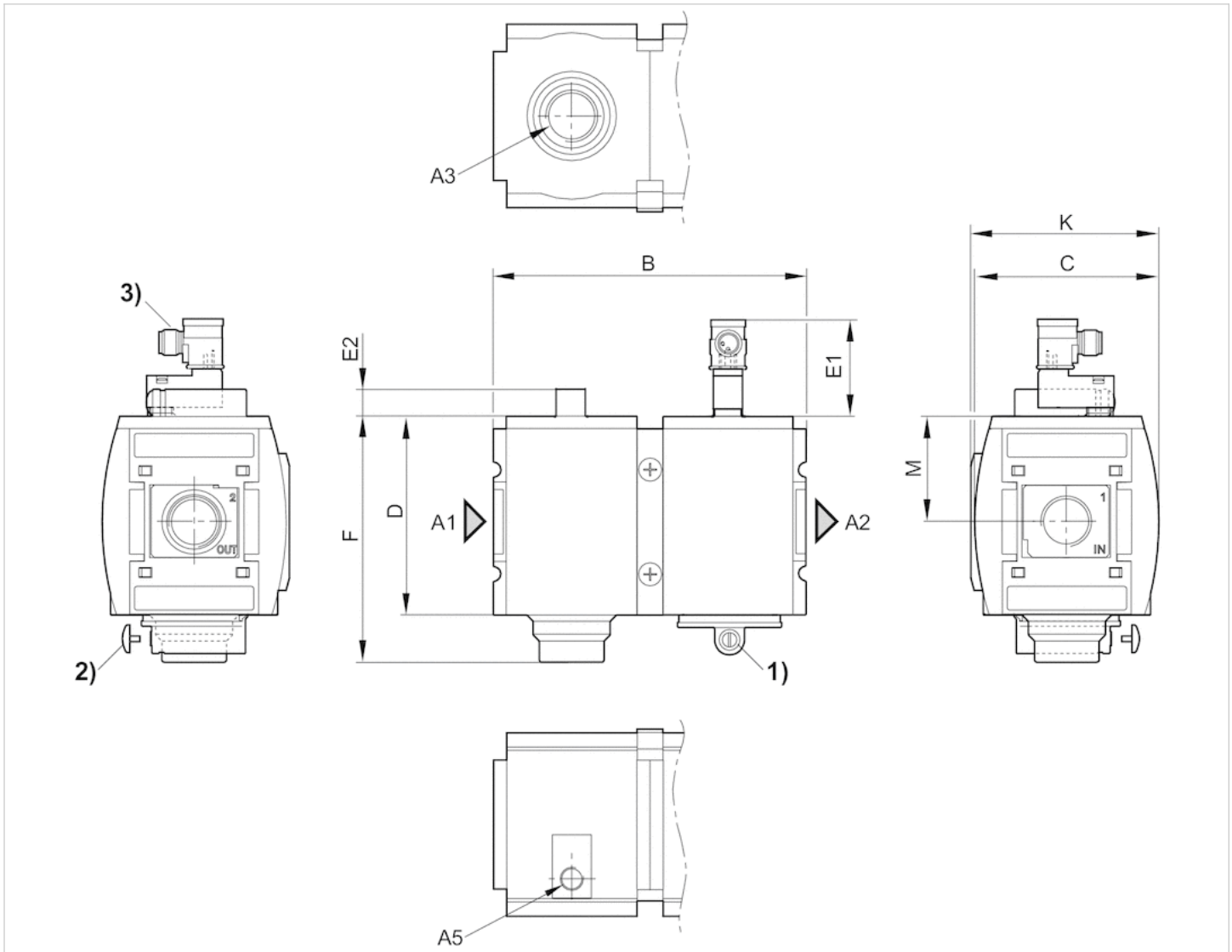
Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene



Material	
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



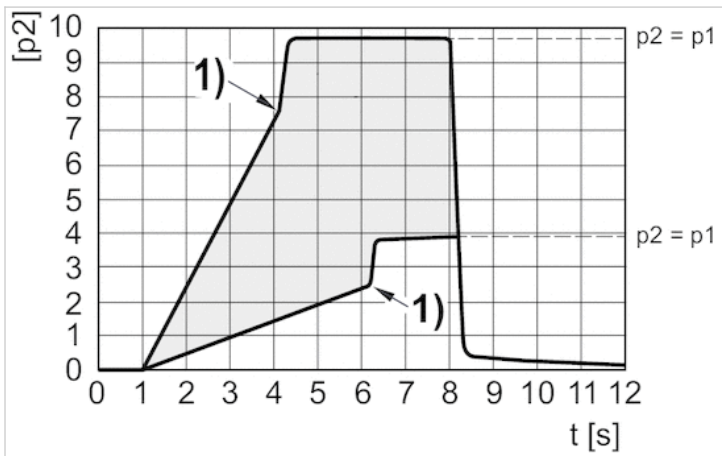
- A1 = input
- A2 = output
- A3 = ventilation port
- A5 = control pressure connection
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock
- 3) For valve plug connectors M12x1

### Dimensions in mm

A1	A2	A3	A5	B	C	D	E1	F	K	M
G 1/2	G 1/2	G 1/2	G 1/8	126	74	80	39	99	75.5	42.5

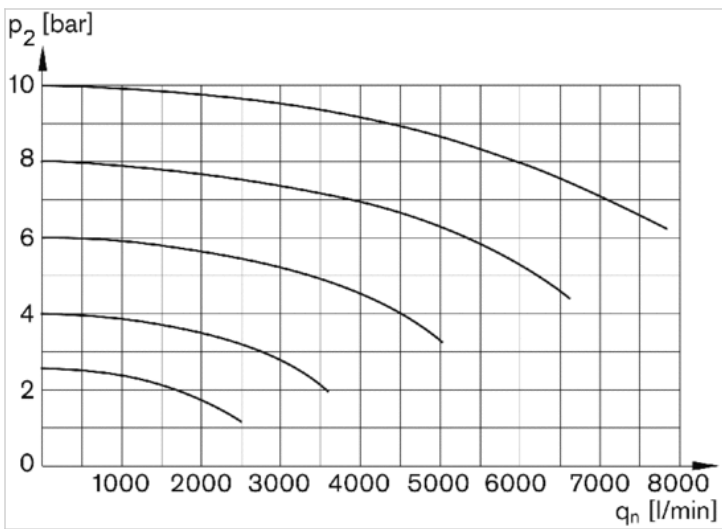
## Diagrams

### secondary pressure while filling



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $t$  = filling time, adjustable via adjustment screw (throttle)  
 Change-over pressure individually adjustable via electrical signal  
 1) Switching point: adjustable filling time and change-over pressure

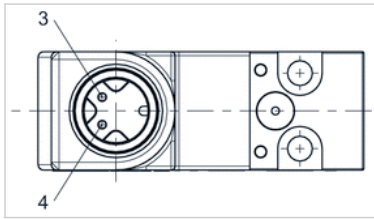
### Flow rate characteristic



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

## Pin assignments

### Pin assignment M12x1



3: +/-

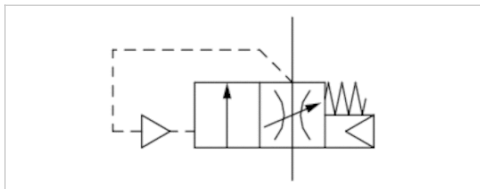
4: +/-

# Filling valve, Series AS3-SSV

- adjustable filling time
- Compressed air connection G 3/8, G 1/2
- suitable for ATEX



Version	Poppet valve, Can be assembled into blocks
Sealing principle	Soft sealing
Certificates	suitable for ATEX
Working pressure min./max.	37 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	40 µm
Weight	0.948 lbs



## Technical data

Part No.	Port	Flow	
		Qn	
R412007272	G 3/8	4.57 Cv	1)
R412007273	G 1/2	4.57 Cv	1)
R412007275	G 1/2	4.57 Cv	2)

Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 14.5$  psi

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

2) With adjustment screw lock, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

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

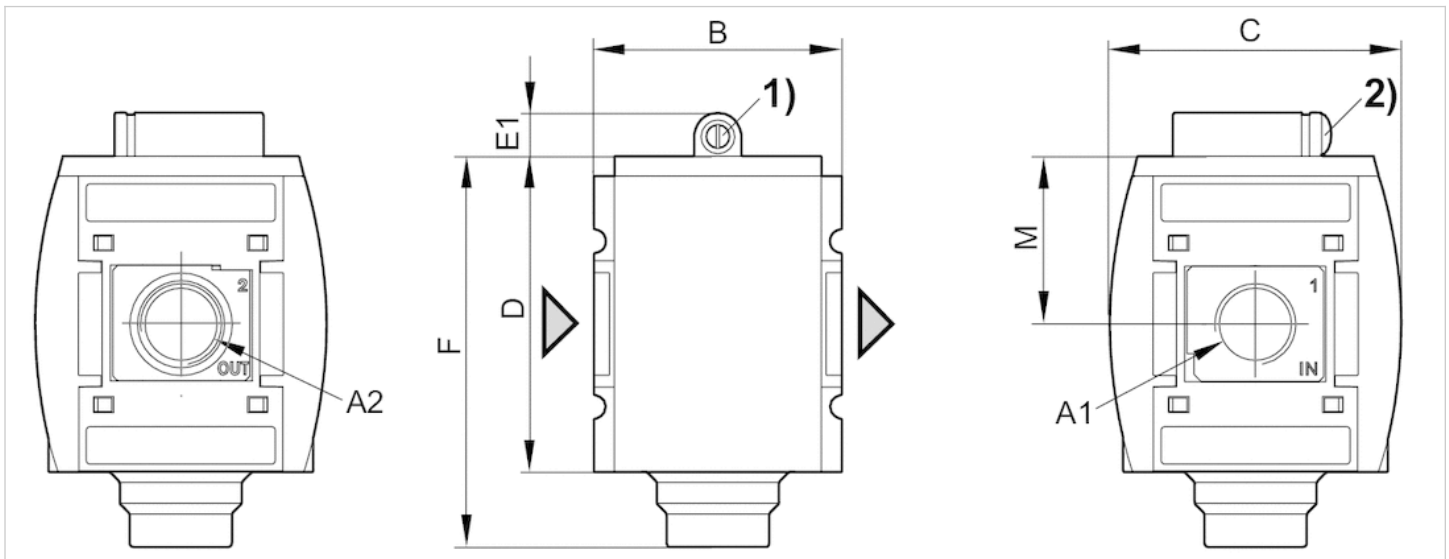
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



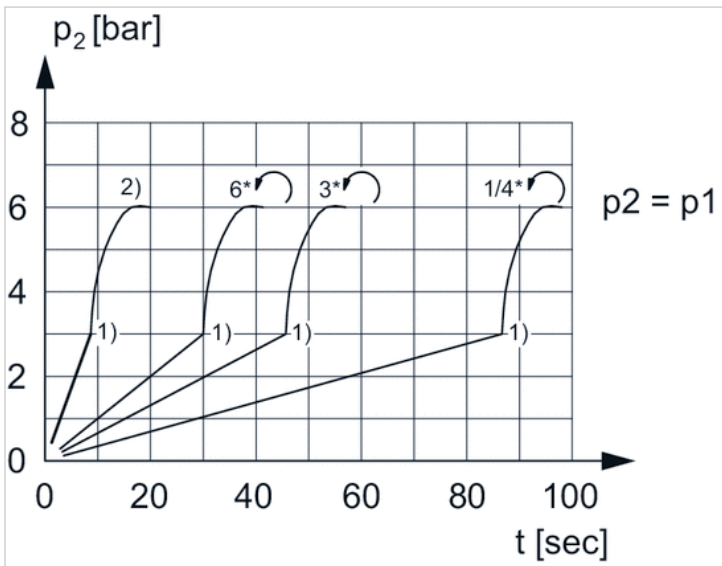
- A1 = input
- A2 = output
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock

### Dimensions in mm

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

## Diagrams

### secondary pressure while filling



p1 = working pressure

p2 = secondary pressure

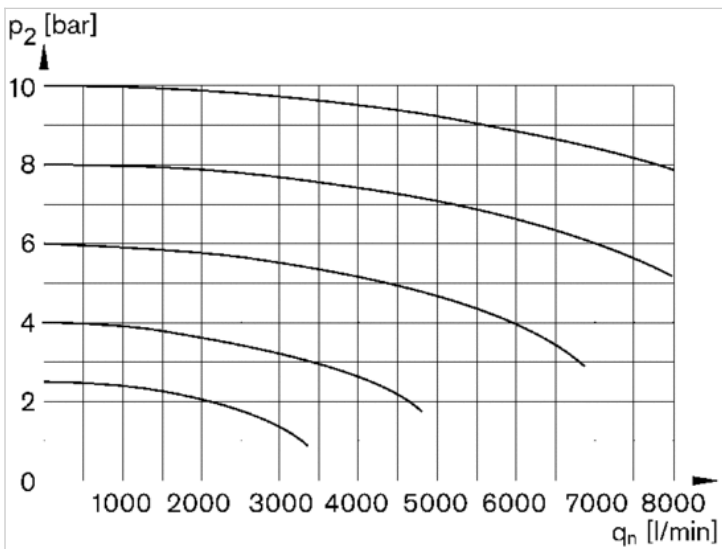
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure  $\approx 0.5 \times p1$  (50%)

2) Throttle fully opened

\* Adjustment screw rotations

### Flow rate characteristic



p2 = secondary pressure

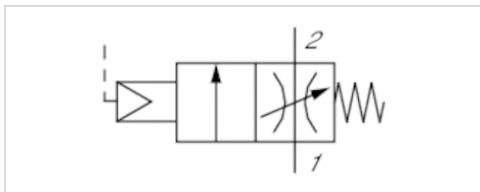
qn = nominal flow

# Filling valve, pneumatically operated, Series AS3-SSV

- adjustable filling time and change-over pressure
- Compressed air connection G 3/8, G 1/2
- Pipe connection



Version	Poppet valve, Can be assembled into blocks
Sealing principle	Soft sealing
Working pressure min./max.	37 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	40 µm
Weight	0.948 lbs



## Technical data

Part No.	Port	Pilot connection	Flow	Flow
			Qn	Qn 1→2
R412007311	G 3/8	G 1/8	4.47 Cv	4.47 Cv
R412007312	G 1/2	G 1/8	4.47 Cv	4.47 Cv

Nominal flow Qn at p1 = 91.35 psi and Δp = 14.5 psi

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F . Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements. A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

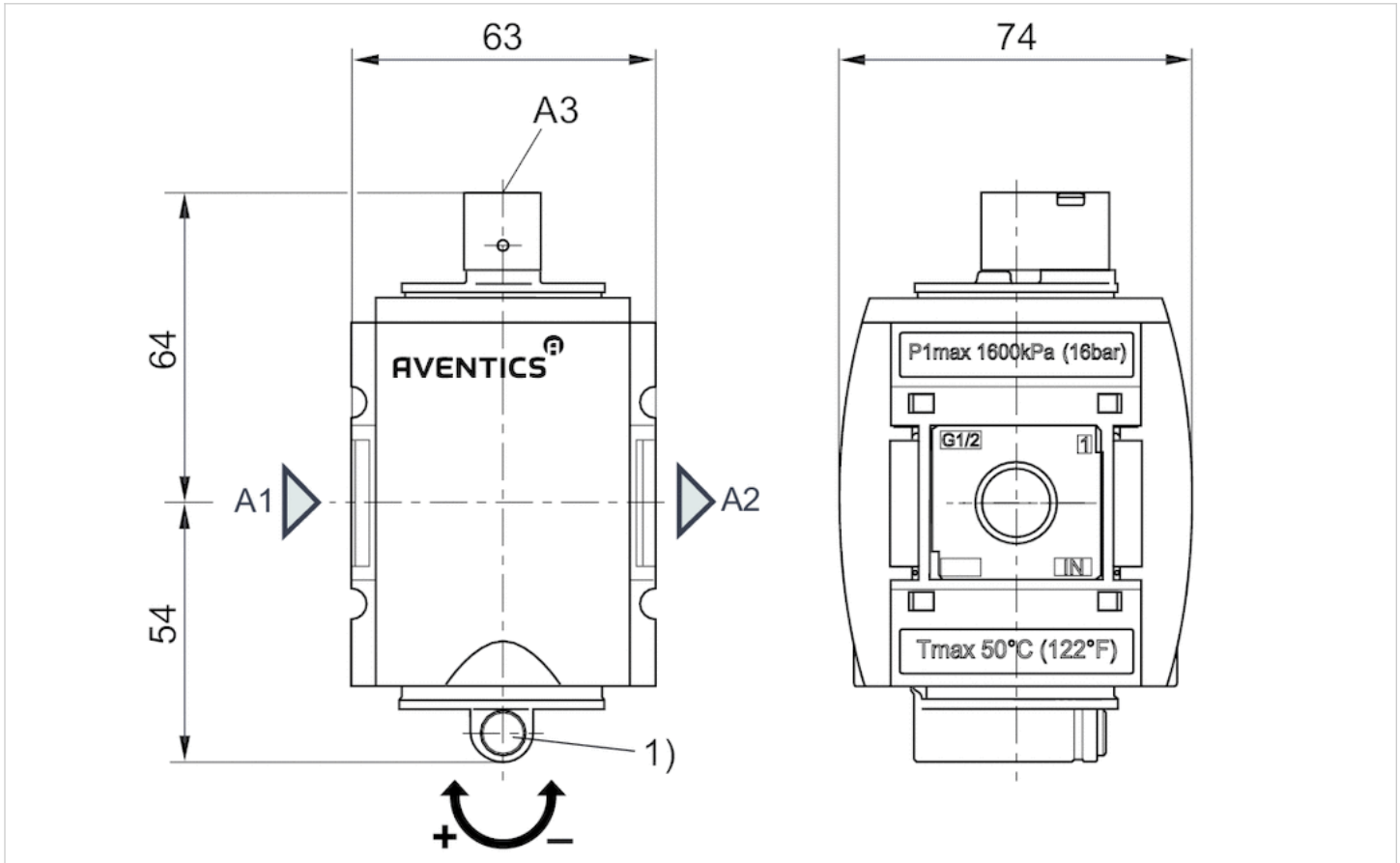
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Material	
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions

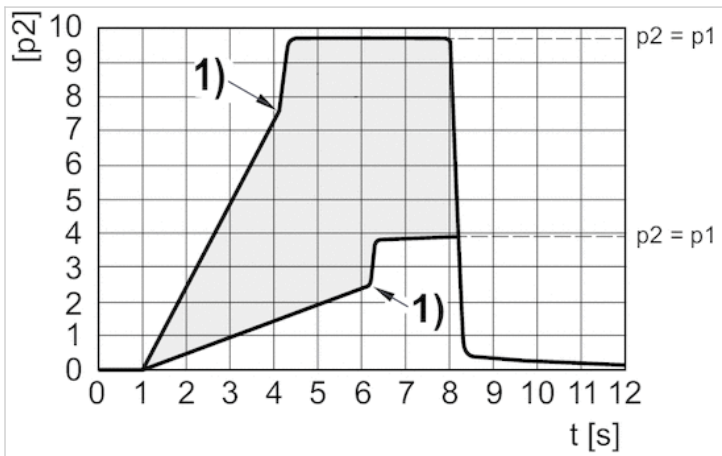


- A1 = input
- A2 = output
- A3 = control pressure connection
- 1) Adjustment screw for filling time



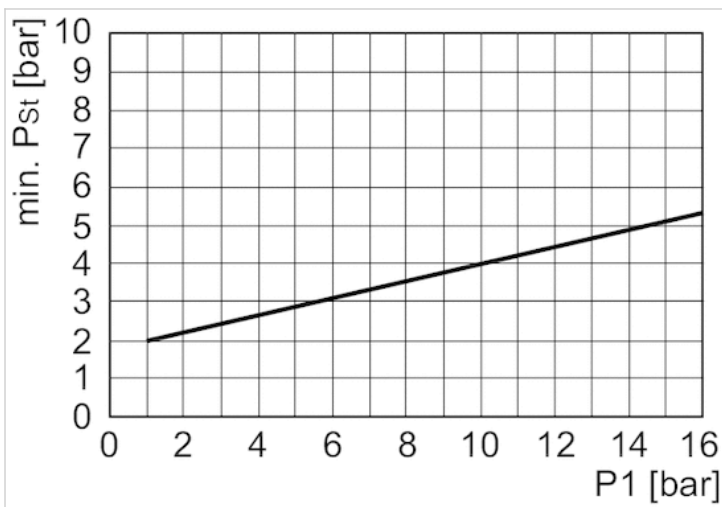
## Diagrams

### secondary pressure while filling



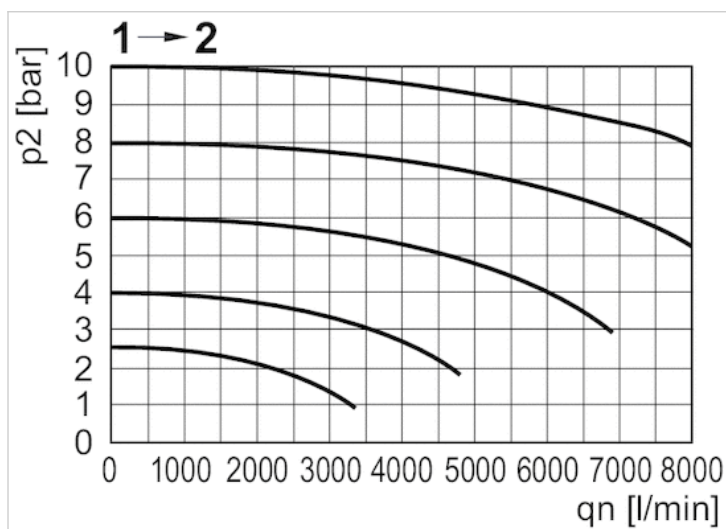
p1 = working pressure  
 p2 = secondary pressure  
 t = filling time, adjustable via adjustment screw (throttle)  
 Change-over pressure individually adjustable via pneumatic signal  
 1) Switching point: adjustable filling time and change-over pressure

### control pressure characteristic



p1 = working pressure  
 PS = control pressure

Flow rate characteristic



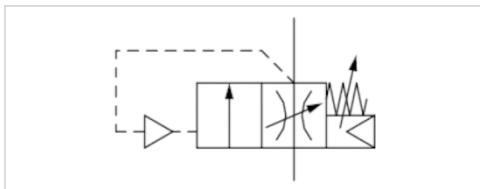
p2 = secondary pressure  
qn = nominal flow

# Filling valve, mechanically adjustable, series AS3-SSV

- adjustable filling time and change-over pressure
- Compressed air connection G 3/8, G 1/2



Version	Poppet valve, Can be assembled into blocks
Sealing principle	Soft sealing
Working pressure min./max.	37 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	40 µm
Weight	0.948 lbs



## Technical data

Part No.	Port	Pilot connection	Flow
			Qn
R412007245	G 3/8	G 3/8	4.57 Cv
R412007246	G 1/2	G 3/8	4.57 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at  $\Delta p = 14.5$  psi

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

adjustable filling time and change-over pressure

Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

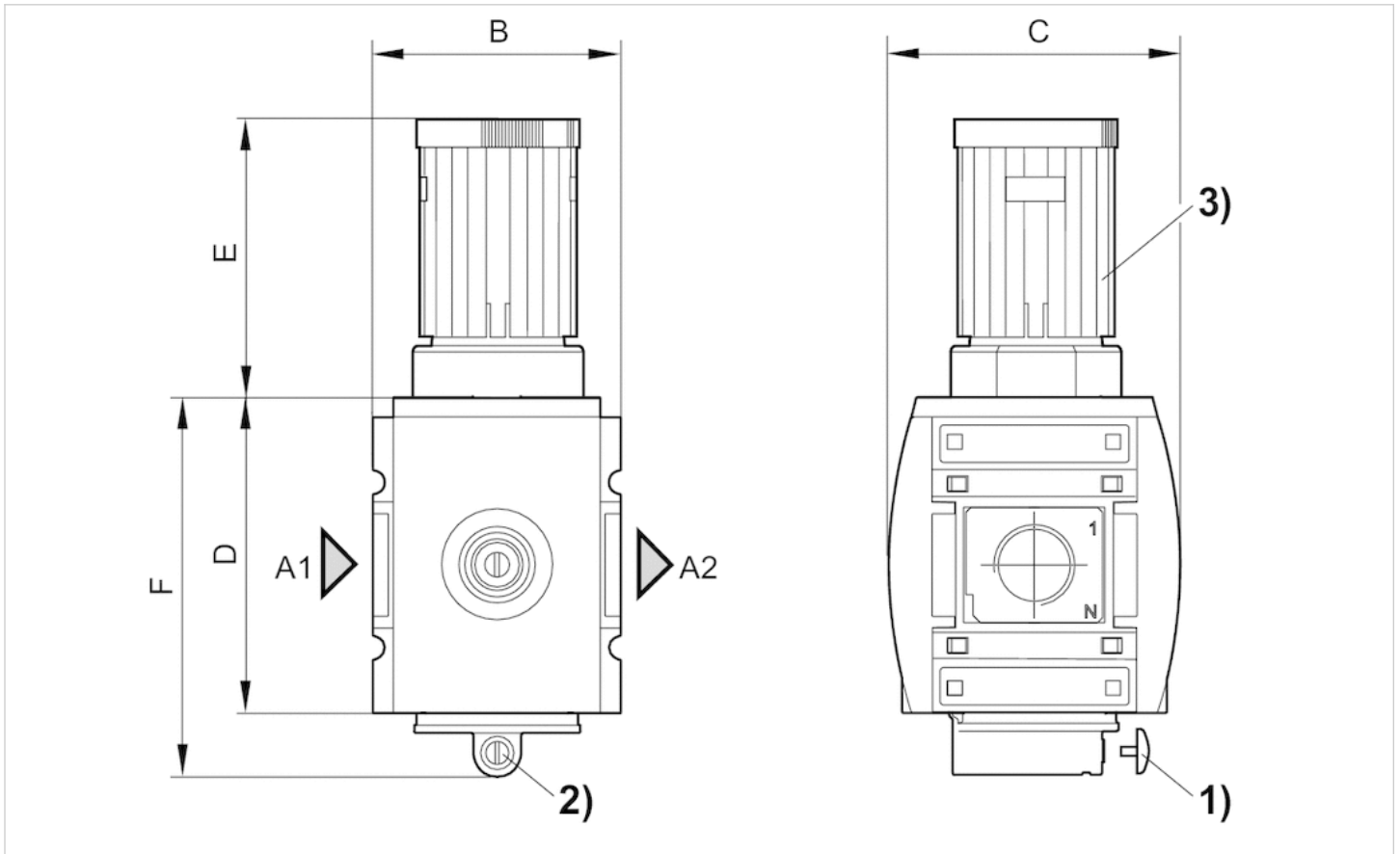
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene

Material	
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



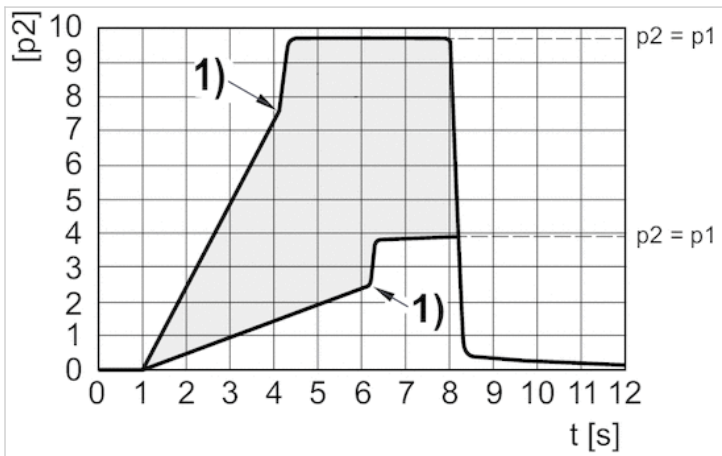
- A1 = input
- A2 = output
- 1) Adjustment screw lock
- 2) Adjustment screw for filling time
- 3) hand wheel for change-over pressure, lockable

### Dimensions in mm

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

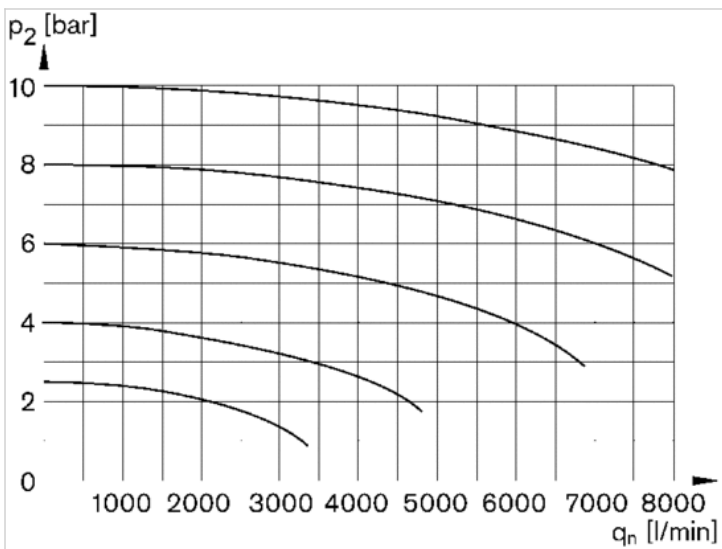
## Diagrams

### secondary pressure while filling



- p1 = working pressure
- p2 = secondary pressure
- t = filling time, adjustable via adjustment screw (throttle)
- Change-over pressure individually adjustable via handwheel
- 1) Switching point: adjustable filling time and change-over pressure

### Flow rate characteristic



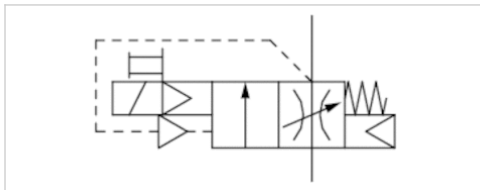
- p2 = secondary pressure
- qn = nominal flow

# Filling valve, electrically operated, series AS3-SSV

- adjustable filling time and change-over pressure, Electr. connection: valve plug connector M12x1
- Compressed air connection G 1/2, G 3/8
- Pipe connection



Version	Poppet valve with elect. priority circuit, Can be assembled into blocks
Sealing principle	Soft sealing
Working pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	25 µm
Duty cycle	100 %
Protection class according to EN 60529:2000, without electrical connector	IP65
Weight	0.948 lbs



## Technical data

Part No.	Port	Flow
		Qn
R412007389	G 1/2	4.57 Cv
R412007390	G 3/8	4.57 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

## Technical information

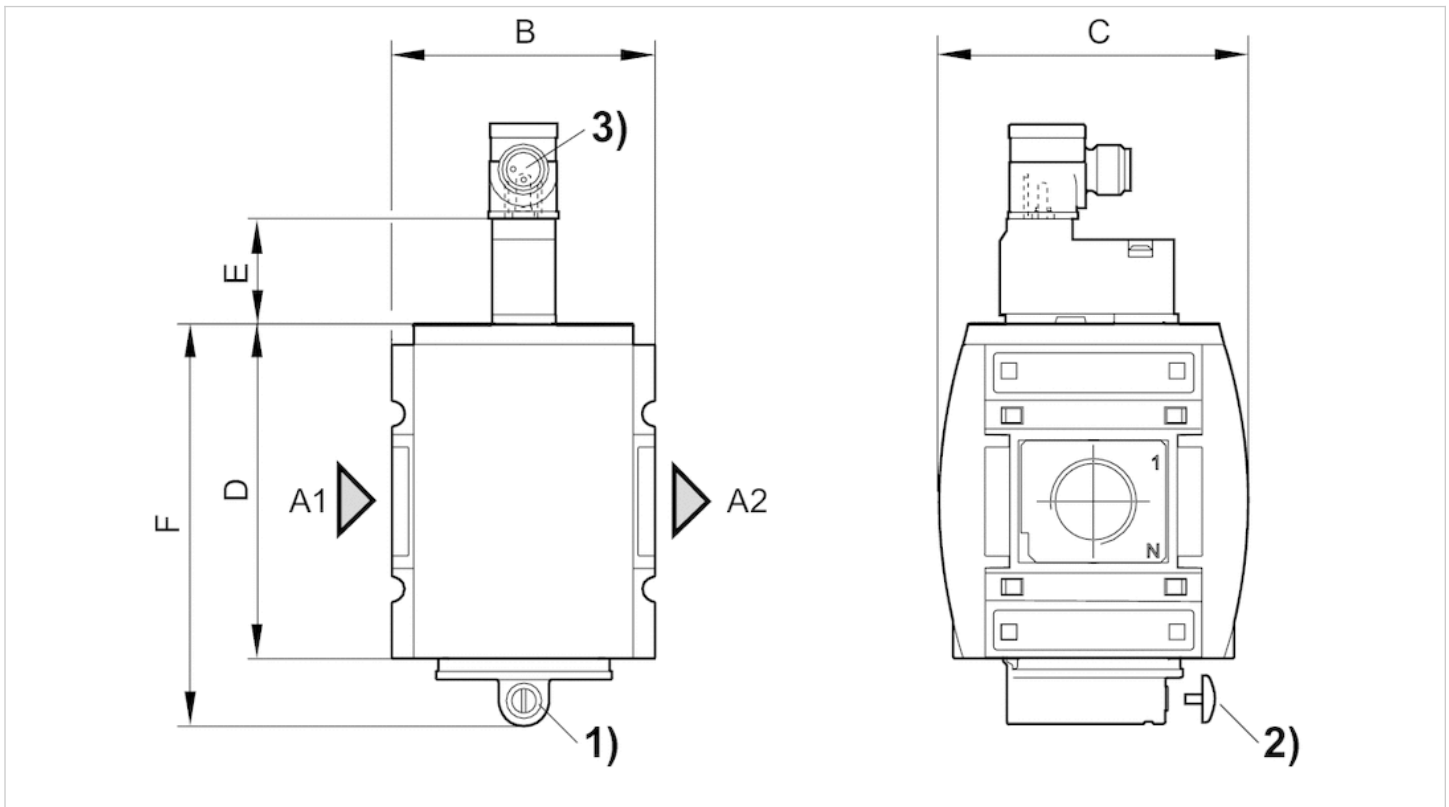
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .  
Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.  
Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.  
Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.  
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



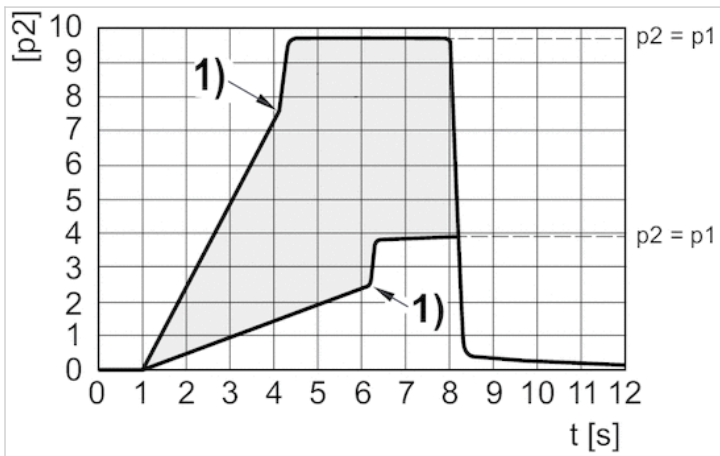
- A1 = input
- A2 = output
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock
- 3) For valve plug connectors M12x1

### Dimensions in mm

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

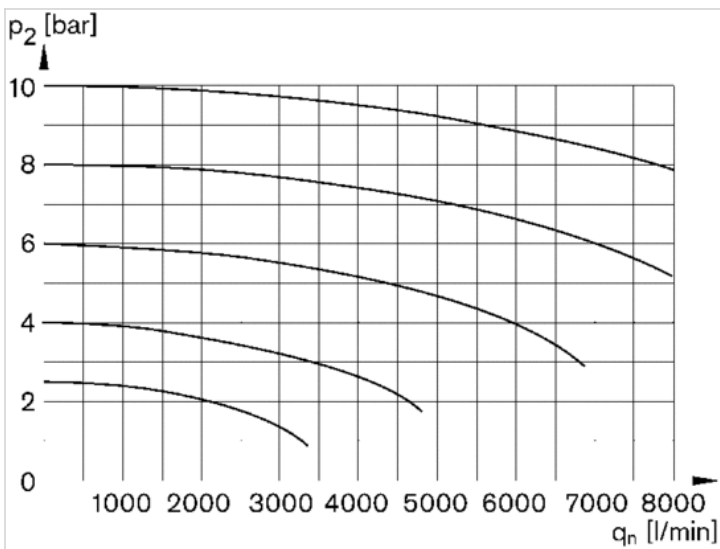
## Diagrams

### secondary pressure while filling



- p1 = working pressure
- p2 = secondary pressure
- t = filling time, adjustable via adjustment screw (throttle)
- Change-over pressure individually adjustable via electrical signal
- 1) Switching point: adjustable filling time and change-over pressure

### Flow rate characteristic

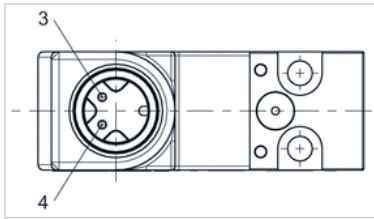


- p2 = secondary pressure
- qn = nominal flow



## Pin assignments

### Pin assignment M12x1



3: +/-

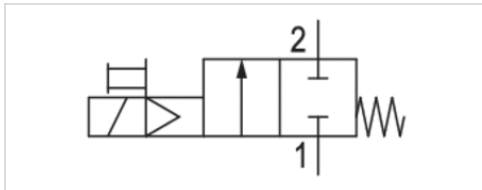
4: +/-

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

- Compressed air connection G 1/2, G 3/8
- Pipe connection
- NC



Version	Poppet valve, Can be assembled into blocks
Parts	2/2-directional valve, electrically operated
Working pressure min./max.	37 ... 145 psi
Medium	Compressed air, Neutral gases
Medium temperature min./max.	14 ... 122 °F
Ambient temperature min./max.	14 ... 122 °F
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class acc. to DIN EN 61140, with plug	IP65
Duty cycle	100 %
Weight	See table below



## Technical data

Part No.		Compressed air connection input	Compressed air connection output	Operational voltage
				DC
R415011113		G 1/2	G 1/2	24 V
R412007341		G 3/8	G 3/8	24 V
R412007342		G 3/8	G 3/8	24 V
R412007343		G 1/2	G 1/2	24 V

Part No.	Power consumption	Electrical connection	basic valve with electrical connector
	DC	Pilot valve	
R415011113	2 W	Plug, ISO 15217, form C	Basic valve with pilot valve
R412007341	2 W	Plug, ISO 15217, form C	Basic valve with pilot valve
R412007342	2 W	Plug, M12	Basic valve with pilot valve
R412007343	2 W	Plug, M12	Basic valve with pilot valve

Part No.	Reverse polarity protection	Weight	Fig.
R415011113	Protected against polarity reversal	1.01 lbs	Fig. 1
R412007341	Protected against polarity reversal	1.34 lbs	Fig. 1
R412007342	Protected against polarity reversal	1.34 lbs	Fig. 2
R412007343	Protected against polarity reversal	1.32 lbs	Fig. 2

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi, MO = Manual override

## Technical information

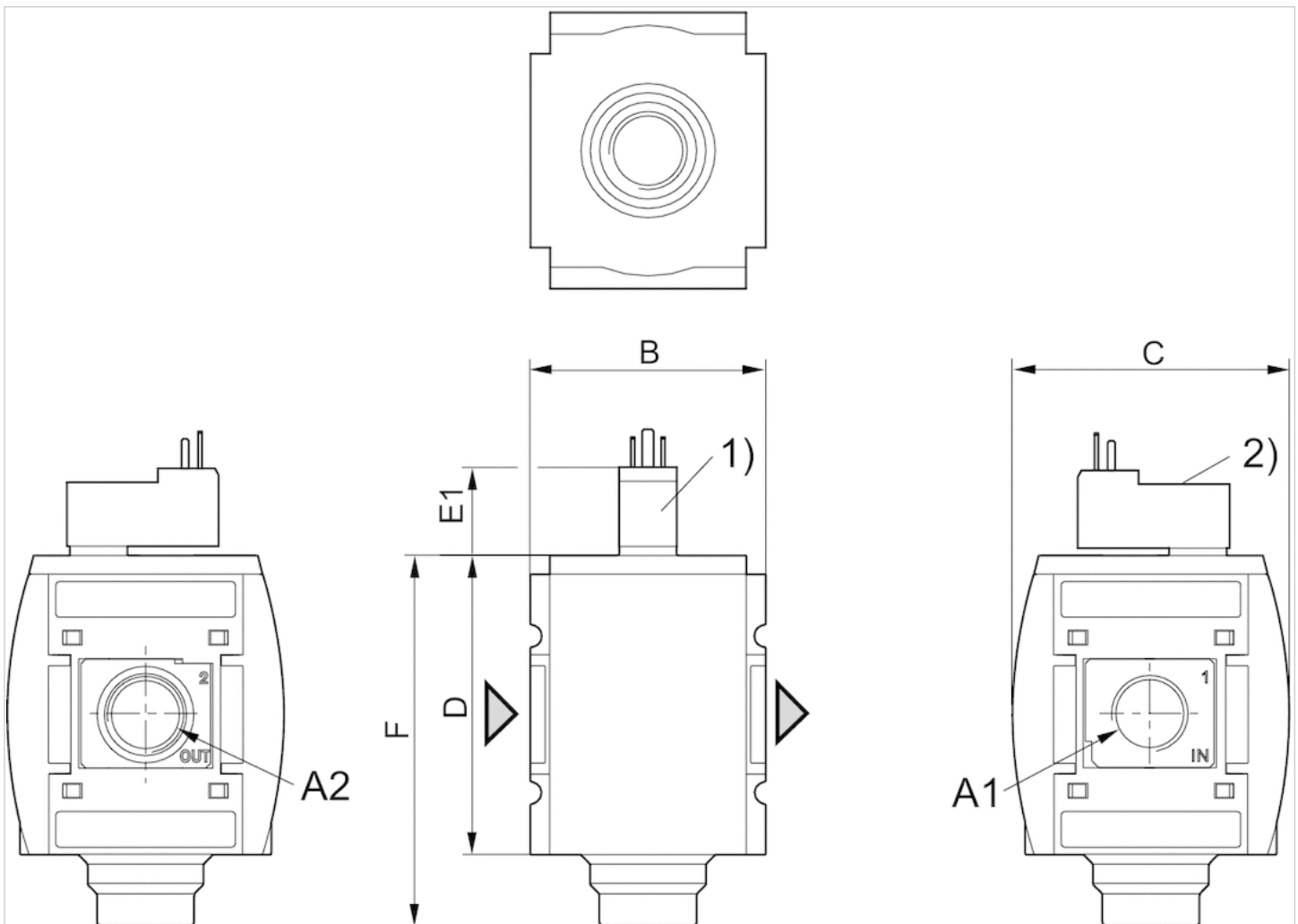
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .  
 A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

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



A1 = input

A2 = output

1) Connection for valve plug connector according to ISO 15217 (form C)

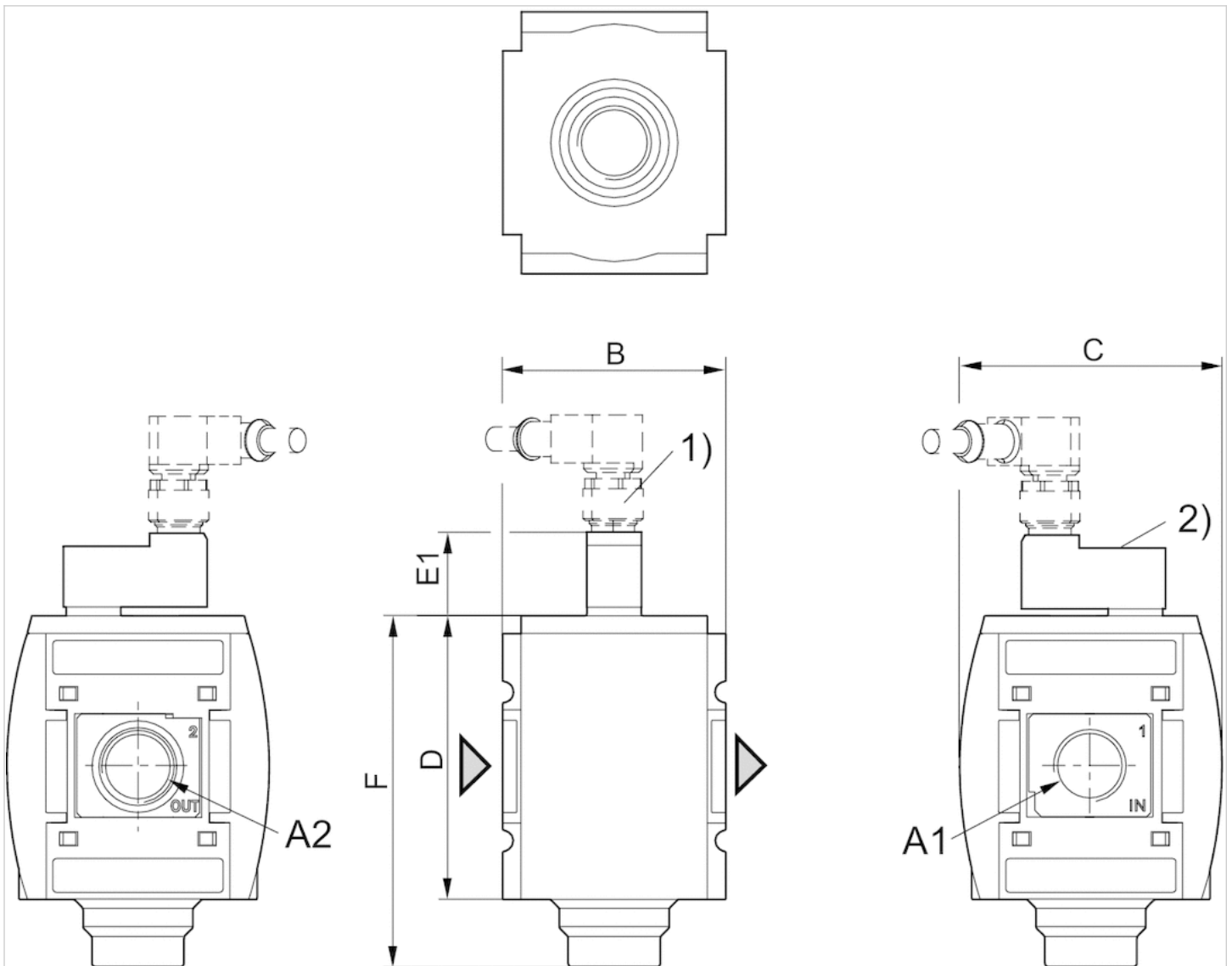
2) Manual override

Dimensions in mm

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

Dimensions

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



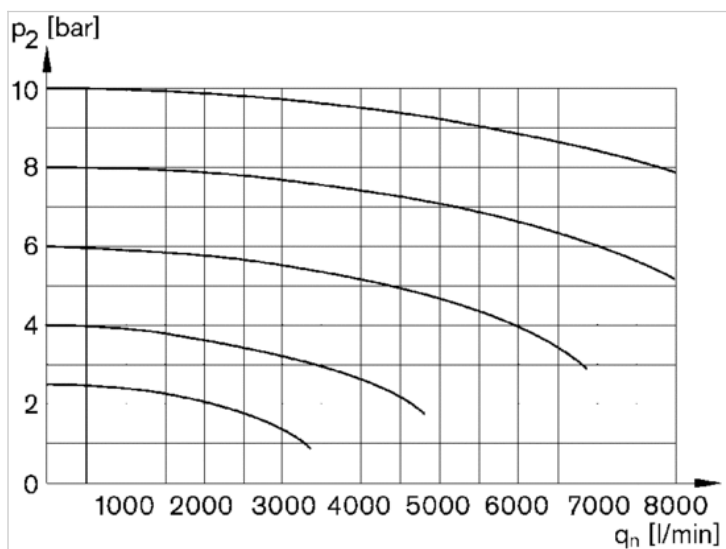
- A1 = input
- A2 = output
- 1) plug M12
- 2) Manual override

Dimensions in mm

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

Diagrams

Flow rate characteristic



p2 = secondary pressure  
 qn = nominal flow





















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

- Compressed air connection G 3/8, G 1/2
- Pipe connection
- ATEX optional



Version	Poppet valve, Can be assembled into blocks
Parts	3/2-directional valve, electrically operated
Nominal flow	4.57 Cv
Nominal flow 1 ▶ 2	4.57 Cv
Nominal flow 2 ▶ 3	3.25 Cv
Working pressure min./max.	37 ... 145 psi
Medium	Compressed air, Neutral gases
Medium temperature min./max.	14 ... 122 °F
Ambient temperature min./max.	14 ... 122 °F
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class acc. to DIN EN 61140, with plug	IP65
Weight	1.01 lbs

## Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412007265			G 3/8	G 3/8	G 1/2
R412007266			G 3/8	G 3/8	G 1/2
R412007267			G 3/8	G 3/8	G 1/2
R412007269			G 1/2	G 1/2	G 1/2
R412007270			G 1/2	G 1/2	G 1/2
R412007397			G 3/8	G 3/8	G 1/2
R412007271			G 1/2	G 1/2	G 1/2
R412007258		—	G 3/8	G 3/8	G 1/2
R412007264		—	G 3/8	G 3/8	G 1/2
R412007259		—	G 1/2	G 1/2	G 1/2
R412007268		—	G 1/2	G 1/2	G 1/2
R412007391			G 1/2	G 1/2	G 1/2

Part No.	Operational voltage		Operational voltage	
	DC	AC 50 Hz	AC 60 Hz	
R412007265	24 V	-	-	
R412007266	-	110 V	110 V	
R412007267	-	220 V	230 V	
R412007269	24 V	-	-	
R412007270	-	110 V	110 V	
R412007397	24 V	-	-	
R412007271	-	220 V	230 V	
R412007258	-	-	-	

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412007264	-	-	-
R412007259	-	-	-
R412007268	-	-	-
R412007391	24 V	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R412007265	2 W	-	-	-
R412007266	-	1.6 VA	1.4 VA	2.2 VA
R412007267	-	1.6 VA	1.4 VA	2.2 VA
R412007269	2 W	-	-	-
R412007270	-	1.6 VA	1.4 VA	2.2 VA
R412007397	2 W	-	-	-
R412007271	-	1.6 VA	1.4 VA	2.2 VA
R412007258	-	-	-	-
R412007264	-	-	-	-
R412007259	-	-	-	-
R412007268	-	-	-	-
R412007391	2 W	-	-	-

Part No.	Switch-on power	Electrical connection	Connector standard
	AC 60 Hz	Pilot valve	
R412007265	-	Plug, ISO 15217, form C	ISO 15217
R412007266	1.6 VA	Plug, ISO 15217, form C	ISO 15217
R412007267	1.6 VA	Plug, ISO 15217, form C	ISO 15217
R412007269	-	Plug, ISO 15217, form C	ISO 15217
R412007270	1.6 VA	Plug, ISO 15217, form C	ISO 15217
R412007397	-	Plug, M12x1	ISO 15217
R412007271	1.6 VA	Plug, ISO 15217, form C	ISO 15217
R412007258	-	-	-
R412007264	-	-	-
R412007259	-	-	-
R412007268	-	-	-
R412007391	-	Plug, M12x1	EN 175301-803, form B

Part No.	basic valve with electrical connector
R412007265	Basic valve with pilot valve
R412007266	Basic valve with pilot valve
R412007267	Basic valve with pilot valve
R412007269	Basic valve with pilot valve
R412007270	Basic valve with pilot valve
R412007397	Basic valve with pilot valve
R412007271	Basic valve with pilot valve
R412007258	Basic valve without pilot valve, with CNOMO subbase
R412007264	Basic valve without pilot valve
R412007259	Basic valve without pilot valve, with CNOMO subbase
R412007268	Basic valve without pilot valve

Part No.	basic valve with electrical connector
R412007391	Basic valve with pilot valve

Part No.	Reverse polarity protection	Fig.	
R412007265	Protected against polarity reversal	Fig. 3	-
R412007266	Protected against polarity reversal	Fig. 3	-
R412007267	Protected against polarity reversal	Fig. 3	-
R412007269	Protected against polarity reversal	Fig. 3	-
R412007270	Protected against polarity reversal	Fig. 3	-
R412007397	Protected against polarity reversal	Fig. 4	-
R412007271	Protected against polarity reversal	Fig. 3	-
R412007258	-	Fig. 2	1)
R412007264	-	Fig. 1	1)
R412007259	-	Fig. 2	1)
R412007268	-	Fig. 1	1)
R412007391	-	Fig. 4	2)

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 14.5$  psi

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

2) With valve plug connector, EN 175301-803, form B

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

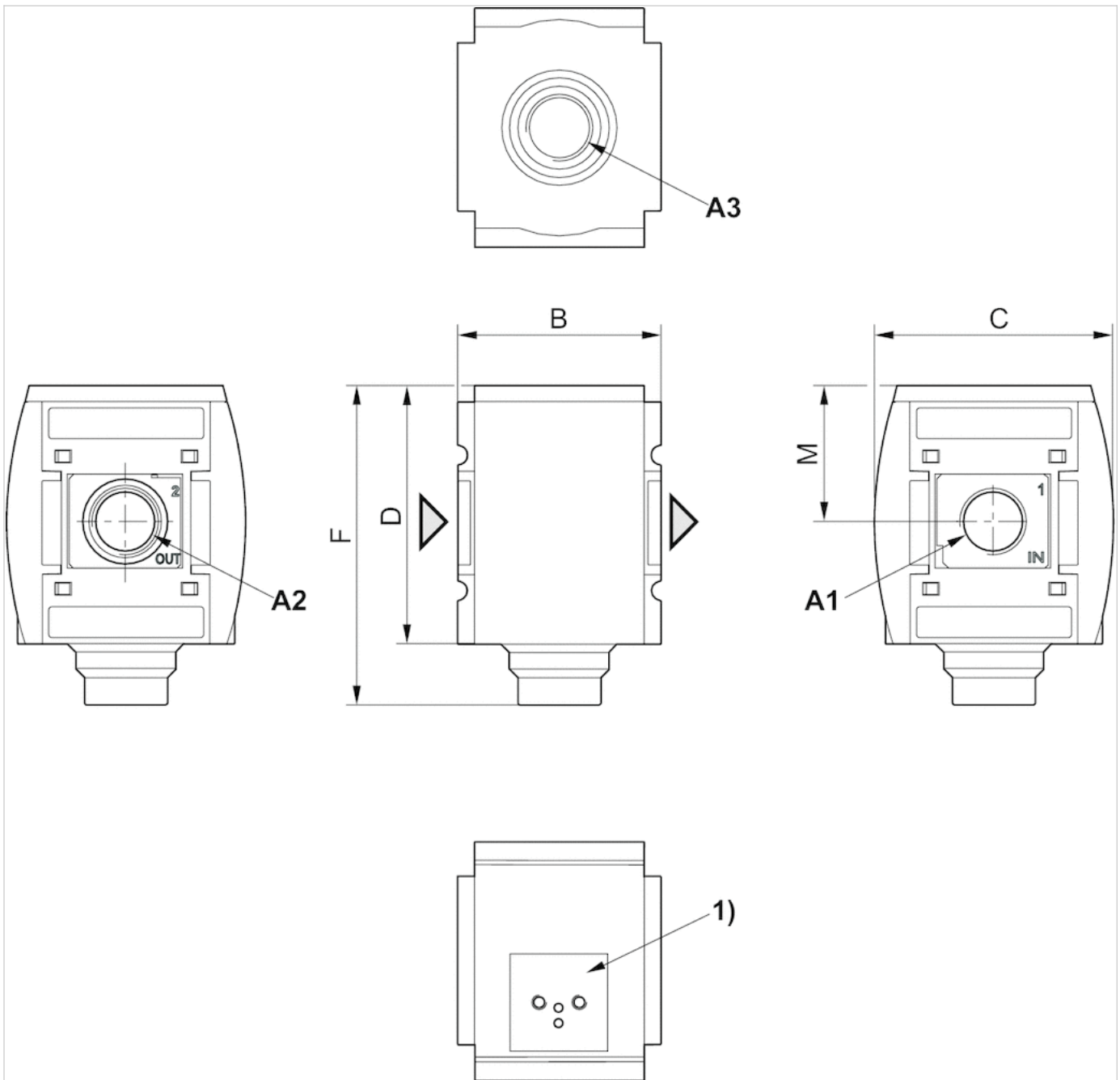
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc



## Dimensions

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



A1 = input

A2 = output

A3 = ventilation port

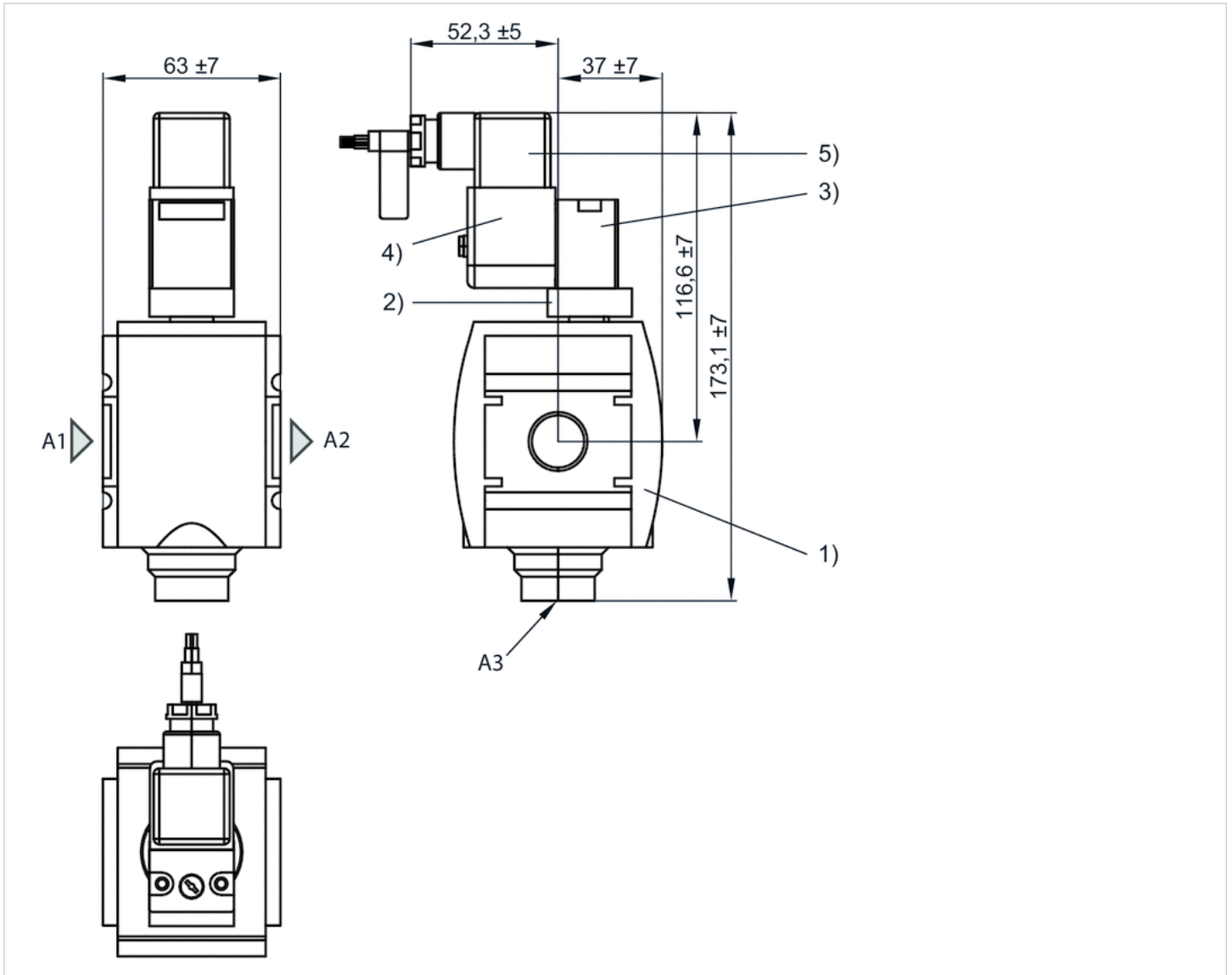
1) For pilot valve series DO16

## Dimensions in mm

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

## Dimensions

Fig. 2: 3/2 directional valve with transition plate (suitable for ATEX)



A1 = input

A2 = output

A3 = ventilation port

1) Shut-off valve

2) Transition plate

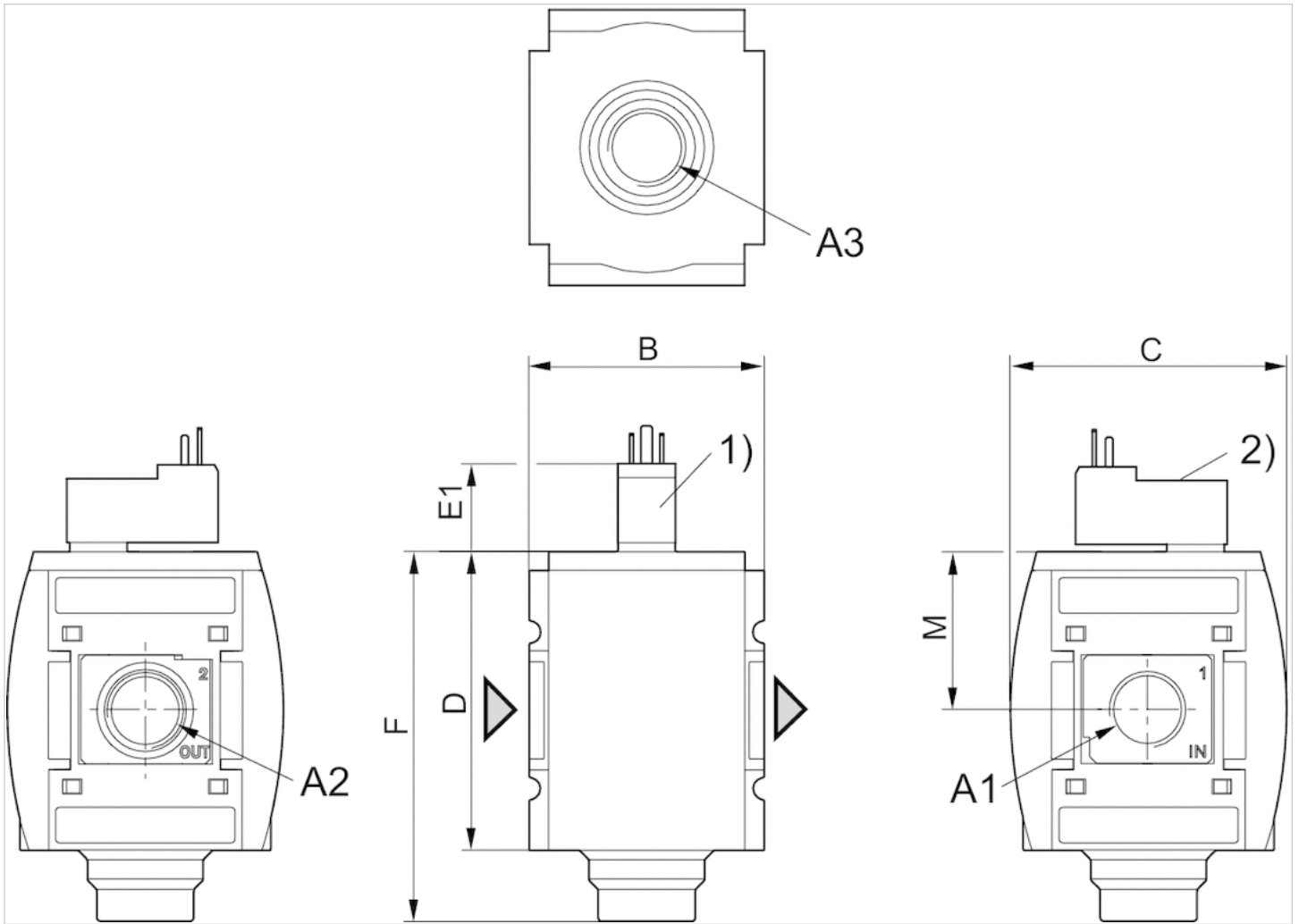
3) Pilot valve

4) Coil

5) Electrical connector

See accessories for pilot valve and coil

Fig. 3: 3/2 directional valve with pilot valve and connection for valve plug connector



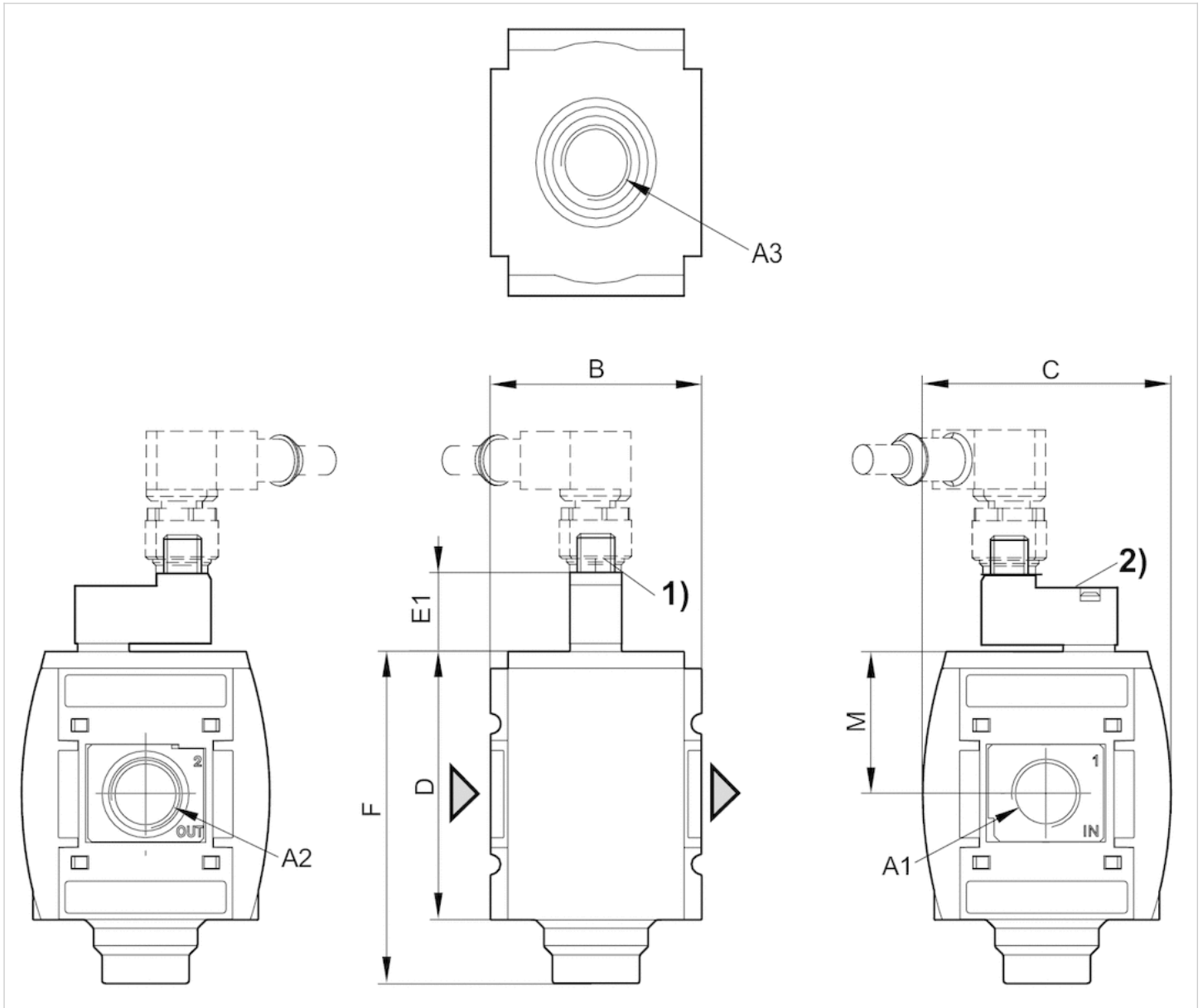
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Connection for valve plug connector according to ISO 15217 (form C)
- 2) Manual override

Dimensions in mm

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

## Dimensions

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



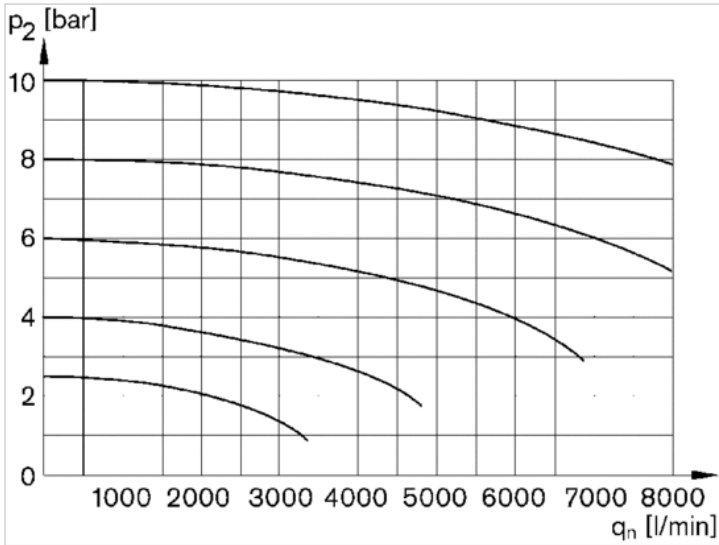
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) plug M12
- 2) Manual override

## Dimensions in mm

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

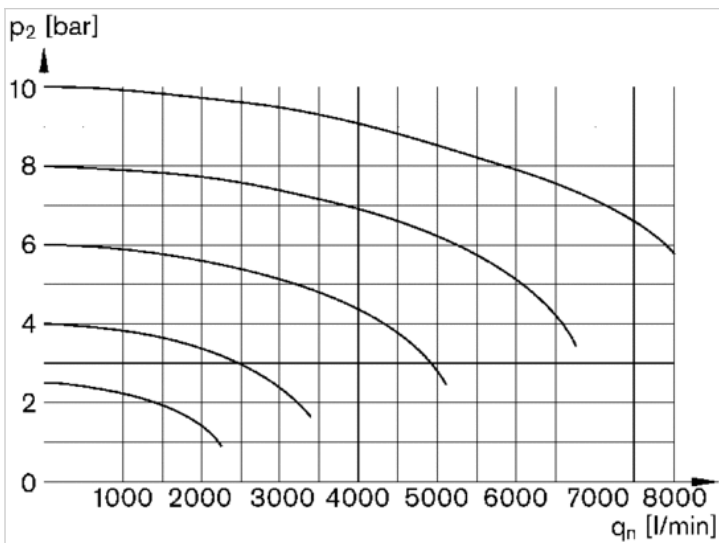
# Diagrams

## Flow rate characteristic



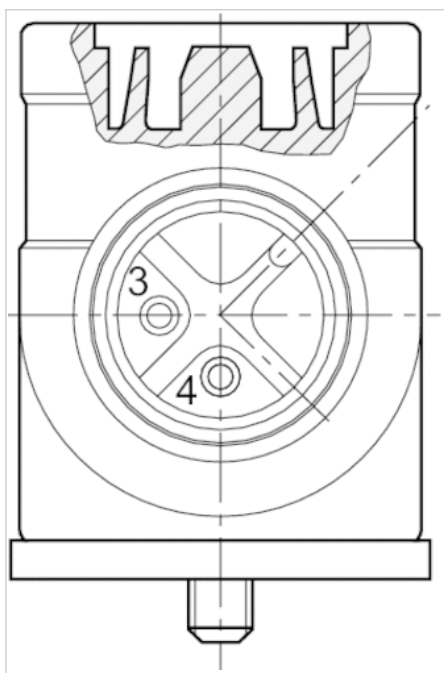
p2 = secondary pressure  
qn = nominal flow

## Rear exhaust



p2 = secondary pressure  
qn = nominal flow

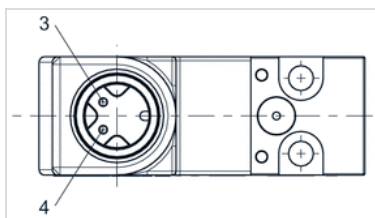
### Pin assignment M12x1



- (3) ▶ (1)
- (4) ▶ (2)

### Pin assignments

#### Pin assignment M12x1



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





























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

- With position inquiry, with integrated sensor
- Compressed air connection G 1/2, G 3/8
- Pipe connection



Version	Poppet valve, Can be assembled into blocks
Parts	3/2-directional valve, electrically operated
Nominal flow	4.57 Cv
Nominal flow 1 ▶ 2	4.57 Cv
Nominal flow 2 ▶ 3	3.25 Cv
Working pressure min./max.	37 ... 145 psi
Medium	Compressed air, Neutral gases
Medium temperature min./max.	14 ... 122 °F
Ambient temperature min./max.	14 ... 122 °F
Sealing principle	Soft sealing
Max. particle size	25 µm
Weight	1.01 lbs

## Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412007383			G 1/2	G 1/2	G 1/2
R412007381			G 3/8	G 3/8	G 1/2
R412007387			G 1/2	G 1/2	G 1/2
R412007359			G 3/8	G 3/8	G 1/2
R412007336			G 3/8	G 3/8	G 1/2
R412007396			G 3/8	G 3/8	G 1/2
R412007377			G 3/8	G 3/8	G 1/2
R412007398			G 1/2	G 1/2	G 1/2
R412007353			G 3/8	G 3/8	G 1/2
R412007355			G 3/8	G 3/8	G 1/2
R412007360			G 1/2	G 1/2	G 1/2
R412007337			G 1/2	G 1/2	G 1/2
R412007354			G 1/2	G 1/2	G 1/2
R412007356			G 1/2	G 1/2	G 1/2

Part No.	Operational voltage	Power consumption	Electrical connection
	DC	DC	Pilot valve
R412007383	24 V	2 W	Plug, ISO 15217, form C
R412007381	-	-	-
R412007387	-	-	-
R412007359	24 V	2 W	Plug, ISO 15217, form C
R412007336	24 V	2 W	Plug, ISO 15217, form C
R412007396	24 V	2 W	Socket, M12x1
R412007377	24 V	2 W	Plug, ISO 15217, form C
R412007398	24 V	2 W	Socket, M12x1

Part No.	Operational voltage	Power consumption		Electrical connection
		DC	DC	Pilot valve
R412007353	24 V		2 W	Socket, M12x1
R412007355	24 V		2 W	Socket, M12x1
R412007360	24 V		2 W	Plug, ISO 15217, form C
R412007337	24 V		2 W	Plug, ISO 15217, form C
R412007354	24 V		2 W	Socket, M12x1
R412007356	24 V		2 W	Socket, M12x1

Part No.	Electrical connection		Cable length	Fig.	
	Sensor		Sensor		
R412007383	without wire end ferrule, tin-plated		3 m	Fig. 2	1)
R412007381	without wire end ferrule, tin-plated		3 m	Fig. 1	2)
R412007387	without wire end ferrule, tin-plated		3 m	Fig. 1	2)
R412007359	Plug, M8, 3-pin, with knurled screw		0.3 m	Fig. 2	1)
R412007336	Plug, M12, 3-pin, with knurled screw		0.3 m	Fig. 2	1)
R412007396	without wire end ferrule, tin-plated		3 m	Fig. 3	1)
R412007377	without wire end ferrule, tin-plated		3 m	Fig. 2	1)
R412007398	without wire end ferrule, tin-plated		3 m	Fig. 3	1)
R412007353	Plug, M8, 3-pin, with knurled screw		0.3 m	Fig. 3	1)
R412007355	Plug, M12, 3-pin, with knurled screw		0.3 m	Fig. 3	1)
R412007360	Plug, M8, 3-pin, with knurled screw		0.3 m	Fig. 2	1)
R412007337	Plug, M12, 3-pin, with knurled screw		0.3 m	Fig. 2	1)
R412007354	Plug, M8, 3-pin, with knurled screw		0.3 m	Fig. 3	1)
R412007356	Plug, M12, 3-pin, with knurled screw		0.3 m	Fig. 3	1)

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 87$  psi at  $\Delta p = 14.5$  psi, MO = Manual override, Electronic sensor included in scope of delivery (assembled). For sensor connection, see the selection table.

- 1) Basic valve with pilot valve
- 2) Basic valve without pilot valve

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Can be used in circuits with increased efficiency.

An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

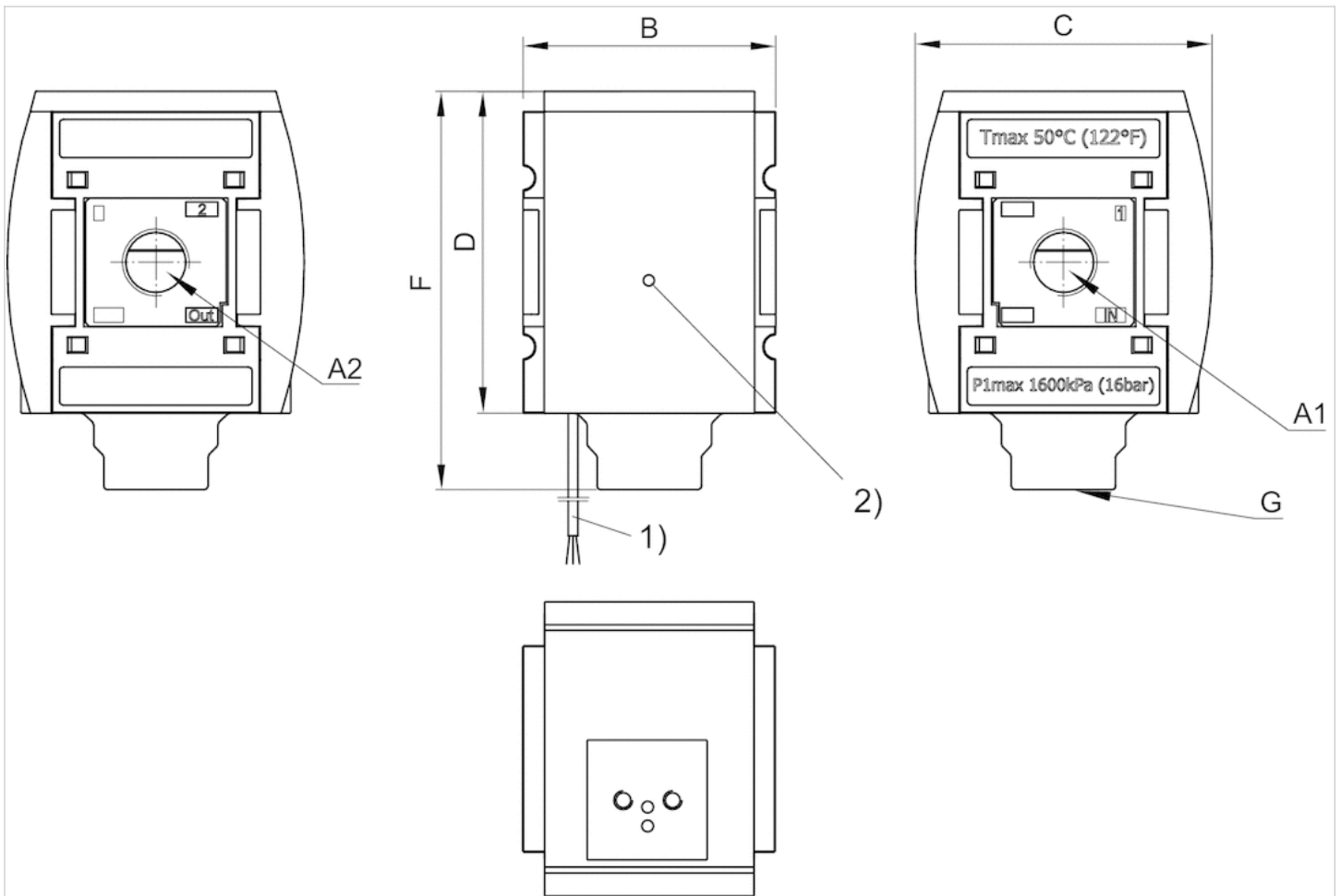
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc



## Dimensions

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



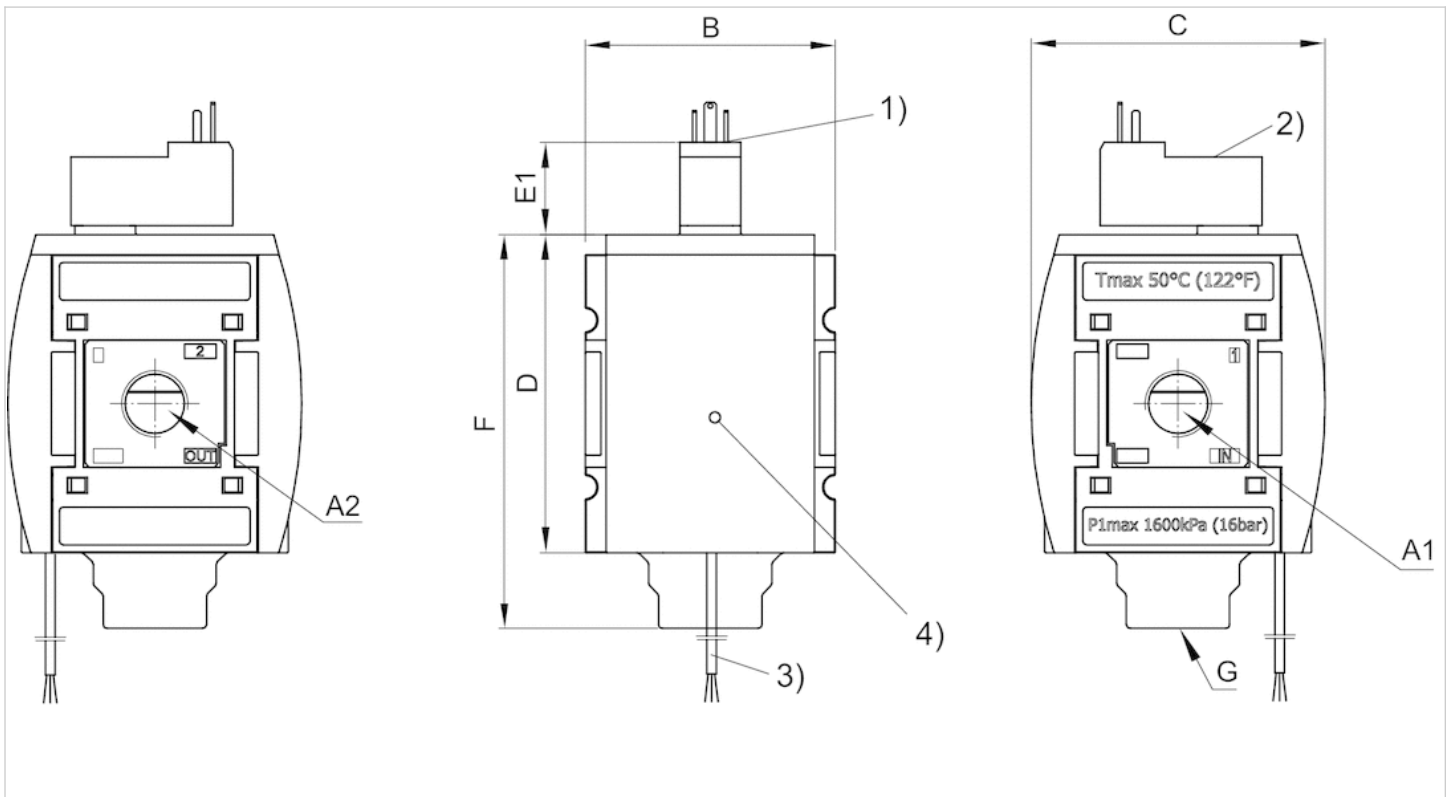
- A1 = input
- A2 = output
- 1) Connection cable
- 2) Optical switch status indicator

## Dimensions in mm

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

## Dimensions

Fig. 2: 3/2 directional valve with pilot valve and connection for valve plug connector form C



A1 = input

A2 = output

1) Electr. connection: valve plug connector form C, ISO 15217

2) Manual override

3) Connection cable

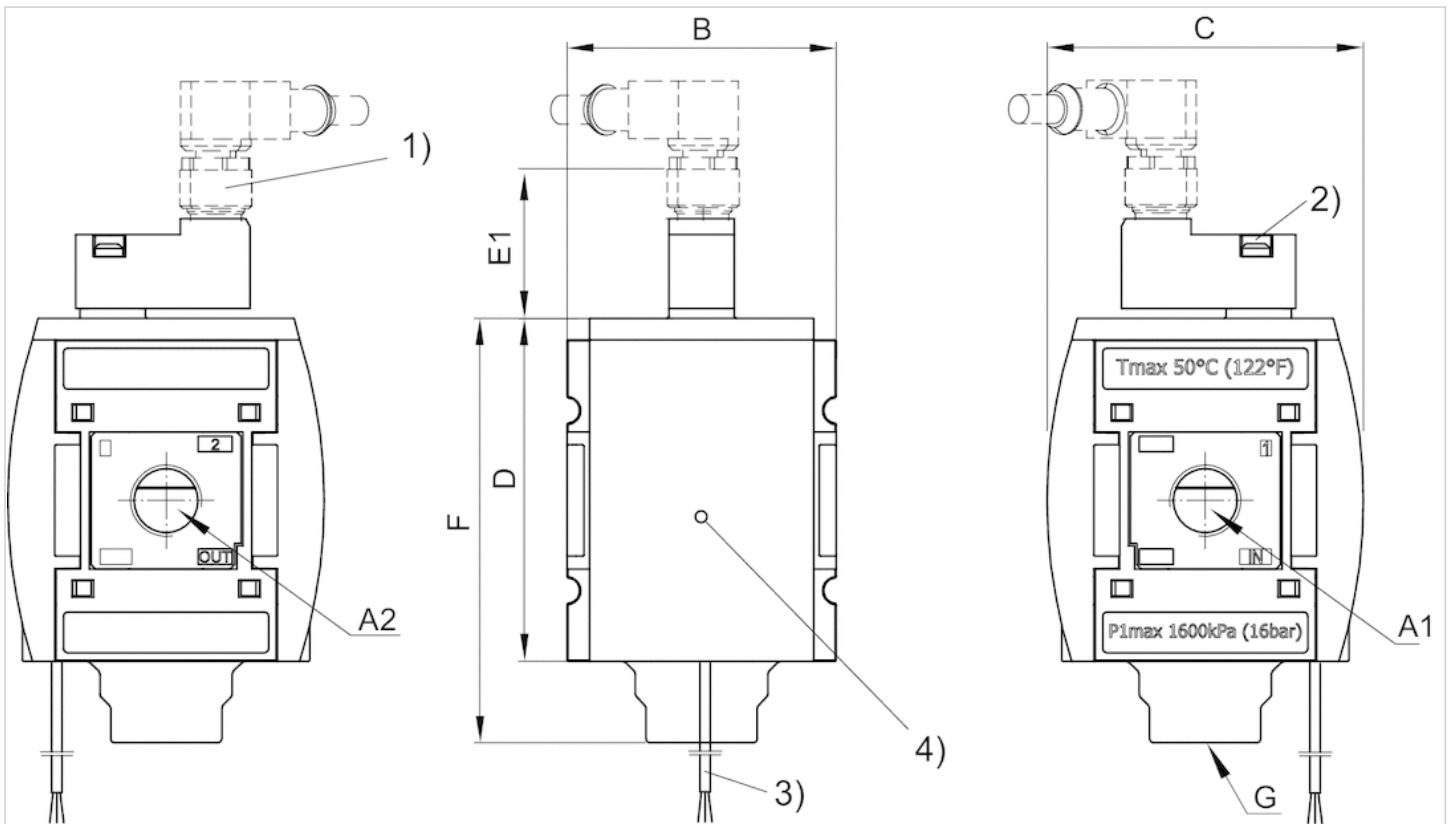
4) Optical switch status indicator

## Dimensions in mm

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

## Dimensions

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



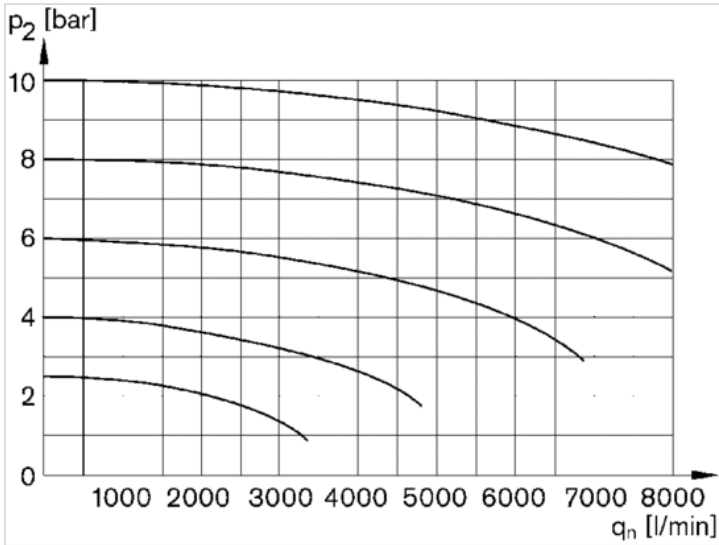
- A1 = input
- A2 = output
- 1) plug M12
- 2) Manual override
- 3) Connection cable
- 4) Optical switch status indicator

## Dimensions in mm

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

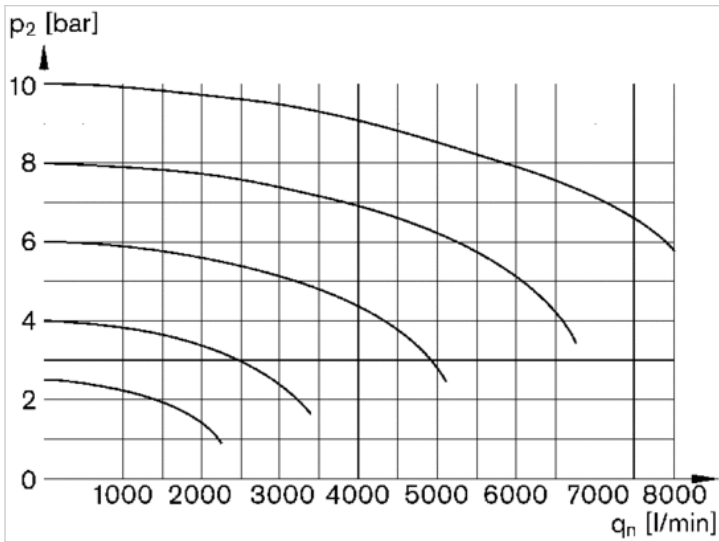
## Diagrams

### Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow

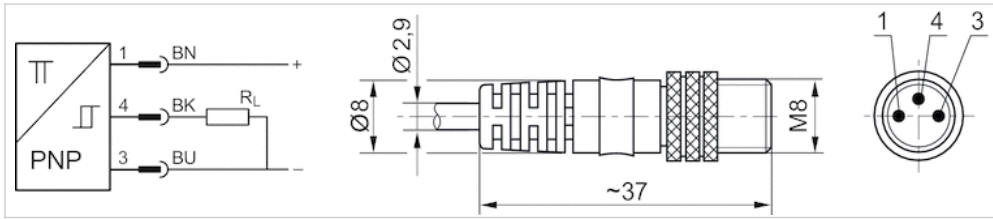
### Rear exhaust



p2 = secondary pressure  
qn = nominal flow

## Pin assignments

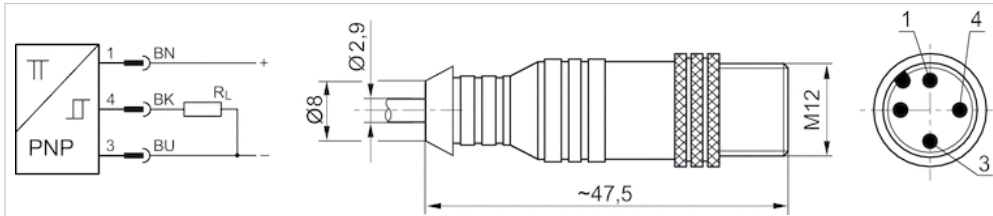
### PIN assignment sensor plug M8



Pin assignment:

- 1 = (+)
- 3 = (-)
- 4 = (OUT)

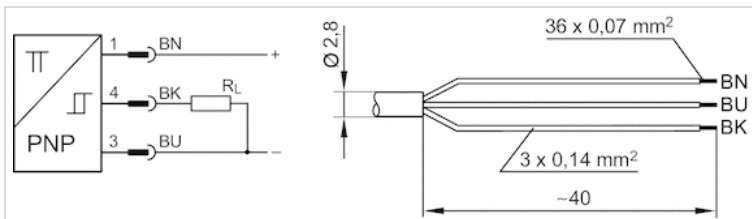
### PIN assignment sensor plug M12



Pin assignment:

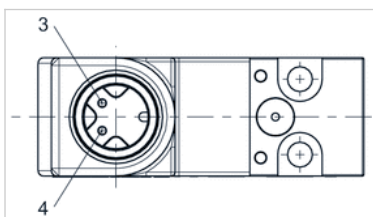
- 1 = (+)
- 3 = (-)
- 4 = (OUT)

### Sensor pin assignment tin-plated wire ends



- BN = brown
- BK = black
- BU = blue

### Pin assignment M12x1



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

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

- Compressed air connection G 3/8, G 1/2
- Pipe connection
- suitable for ATEX



Version

Sealing principle

Certificates

Working pressure min./max.

Control pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Weight

Poppet valve, Can be assembled into blocks

Soft sealing

suitable for ATEX

0 ... 232 psi

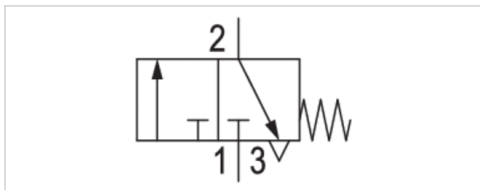
37 ... 232 psi

14 ... 122 °F

14 ... 122 °F

Compressed air, Neutral gases

1.01 lbs



## Technical data

Part No.	Port	Pilot connection	Exhaust	Flow	Flow	Flow
				Qn	Qn 1►2	Qn 2►3
R412007262	G 3/8	G 1/8	G 1/2	4.57 Cv	4.57 Cv	3.25 Cv
R412007263	G 1/2	G 1/8	G 1/2	4.57 Cv	4.57 Cv	3.25 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

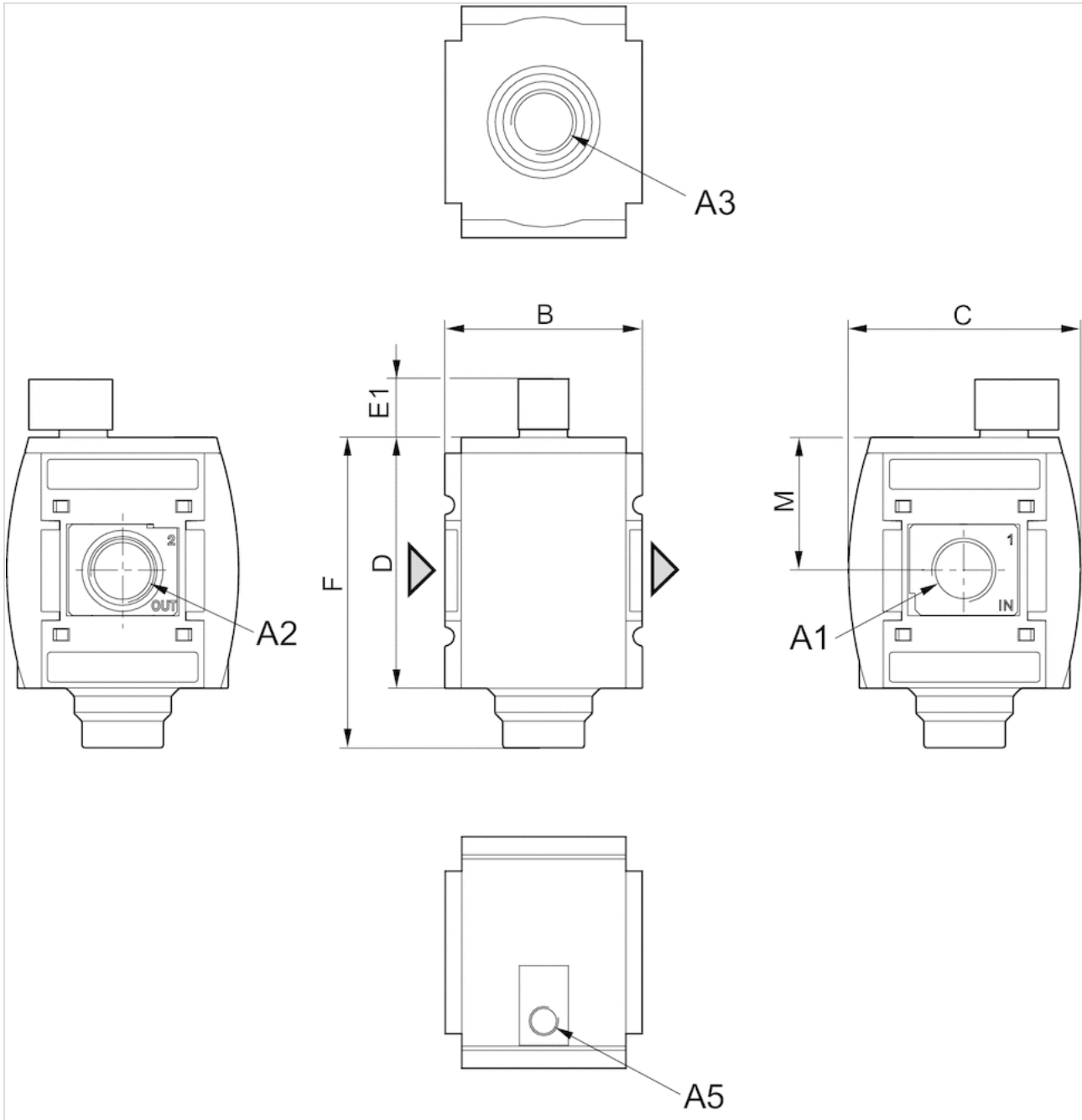
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Material	
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



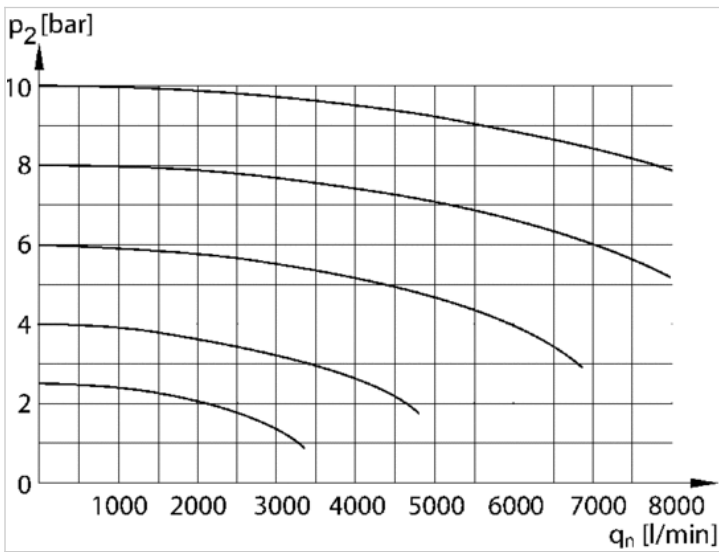
- A1 = input
- A2 = output
- A3 = ventilation port
- A5 = control pressure connection

Dimensions in mm

A1	A2	A3	A5	B	C	D	E1	F	M
G 3/8	G 3/8	G 1/2	G 1/8	63	74	80	18.5	99	42.5
G 1/2	G 1/2	G 1/2	G 1/8	63	74	80	18.5	99	42.5

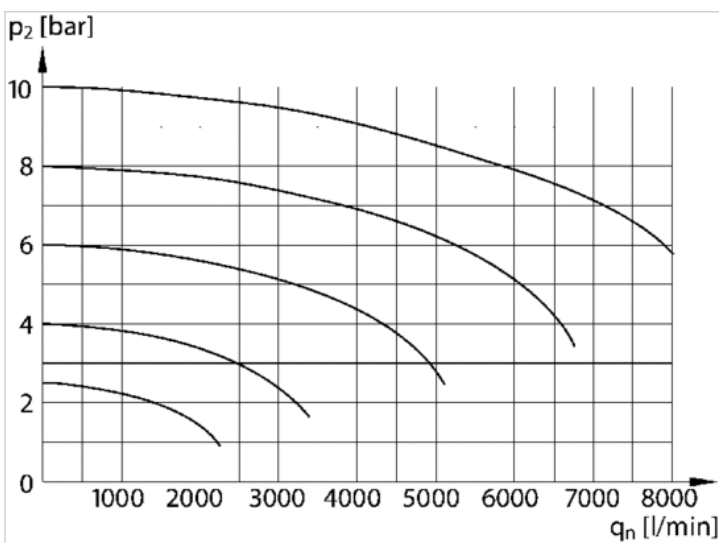
Diagrams

Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow

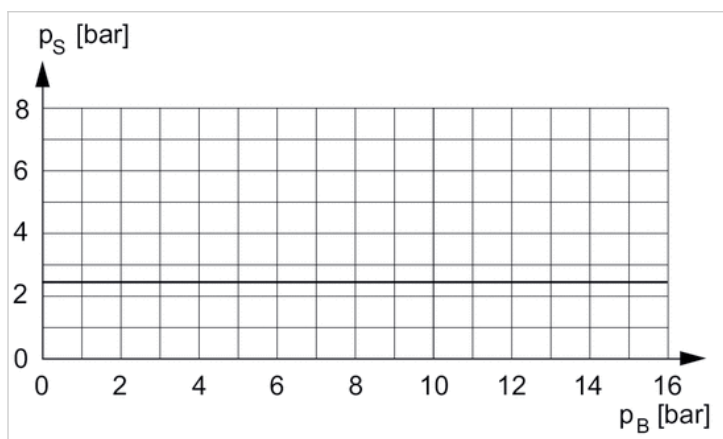
Rear exhaust



p2 = secondary pressure  
qn = nominal flow



## control pressure characteristic



minimum pilot pressure depending on working pressure

PS = control pressure

P= Working pressure

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

- G 3/8, G 1/2

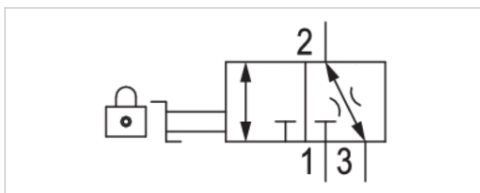
- lockable

- for padlocks

- suitable for ATEX



Version	Ball valve
Activation	Mechanical
Lock type	lockable
Actuating element	rotary switch
Sealing principle	metal/metal sealing
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	25 µm
Weight	0.983 lbs



## Technical data

Part No.	Compressed air connection	
	Input	Output
R412007260	G 3/8	G 3/8
R412007261	G 1/2	G 1/2

Part No.	Compressed air connection		Flow	Flow	Lock type	Locking base
	Exhaust	Qn 1 ▶ 2				
R412007260	G 1/2	11.18 Cv	0.132 Cv	for padlocks	Die cast zinc	
R412007261	G 1/2	11.18 Cv	0.132 Cv	for padlocks	Die cast zinc	

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

## Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

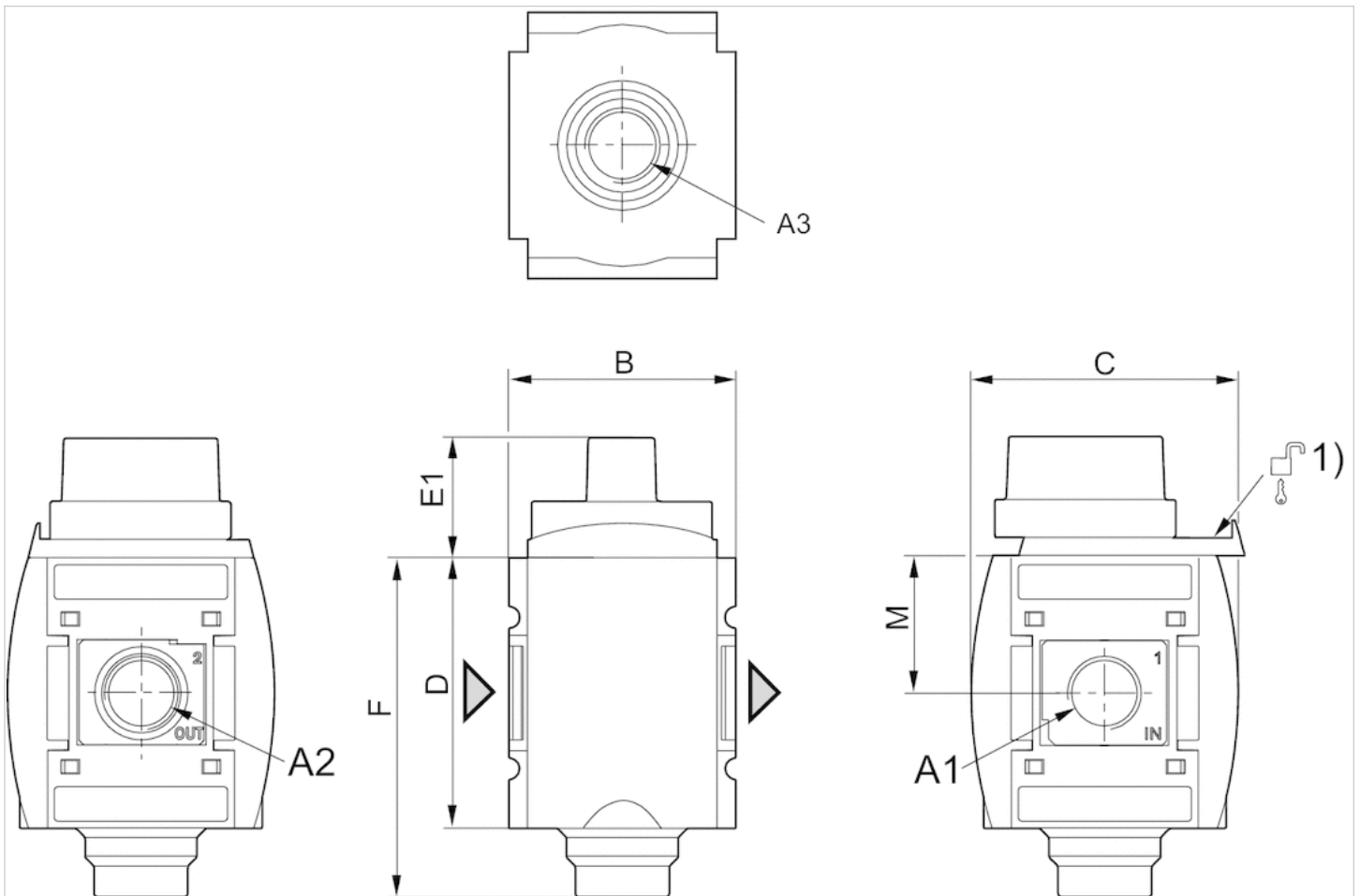
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Polytetrafluorethylene
Threaded bushing	Die cast zinc
Actuating element	Polyoxymethylene
Locking base	Die cast zinc

## Dimensions

### Dimensions



A1 = input

A2 = output

A3 = ventilation port

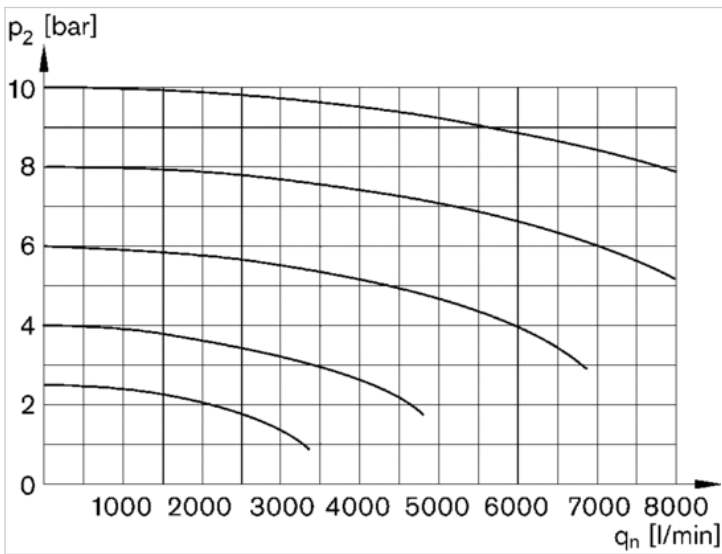
1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

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

Diagrams

Flow rate characteristic



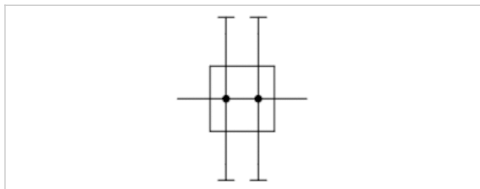
$p_2$  = secondary pressure  
 $q_n$  = nominal flow

# Distributor, Series AS3-DIS

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



Version	Can be assembled into blocks
Parts	Distributor
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Weight	0.705 lbs



## Technical data

Part No.	Port	Nominal flow	Nominal flow	Nominal flow	Nominal flow	Nominal flow
		Qn 1►2	Qn 1►3	Qn 1►4	Qn 1►5	Qn 1►6
R412007250	G 3/8	7.37 Cv	5.59 Cv	2.34 Cv	2.29 Cv	2.34 Cv
R412007251	G 1/2	7.37 Cv	5.59 Cv	2.34 Cv	2.29 Cv	2.34 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

## Technical information

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

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

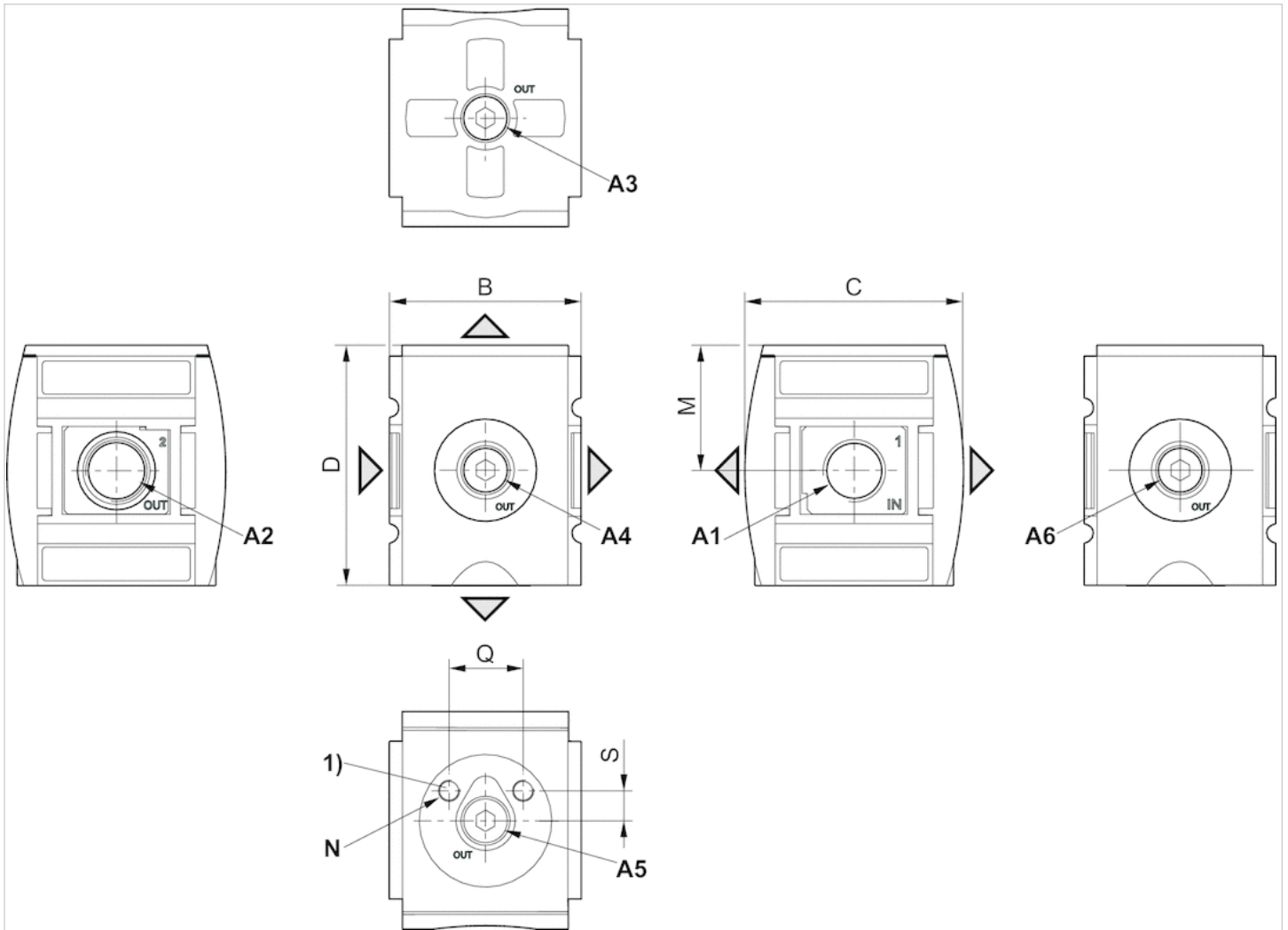
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

# Dimensions

## Dimensions



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

## Dimensions in mm

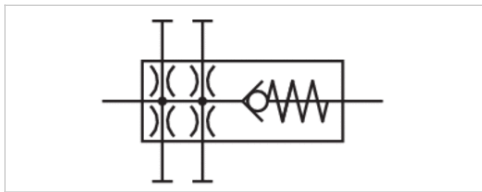
A1	A2	A3	A4	A5	A6	B	C	D	M	N	Q	S
G 3/8	G 3/8	G 1/2	G 3/8	G 1/4	G 3/8	63	74	80.5	42.5	M5	20	8
G 1/2	G 1/2	G 1/2	G 3/8	G 1/4	G 3/8	63	74	80.5	42.5	M5	20	8

# Distributor, Series AS3-DIN

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



Version	Non-return valve, Can be assembled into blocks
Parts	Distributor
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	6 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Weight	0.705 lbs



## Technical data

Part No.	Port	Nominal flow	Nominal flow	Nominal flow	Nominal flow	Nominal flow
		Qn 1►2	Qn 1►3	Qn 1►4	Qn 1►5	Qn 1►6
R412007254	G 3/8	5.18 Cv	3.35 Cv	2.29 Cv	2.29 Cv	2.29 Cv
R412007255	G 1/2	5.18 Cv	3.35 Cv	2.29 Cv	2.29 Cv	2.29 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

## Technical information

4 auxiliary air exits upstream of non-return valve.

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

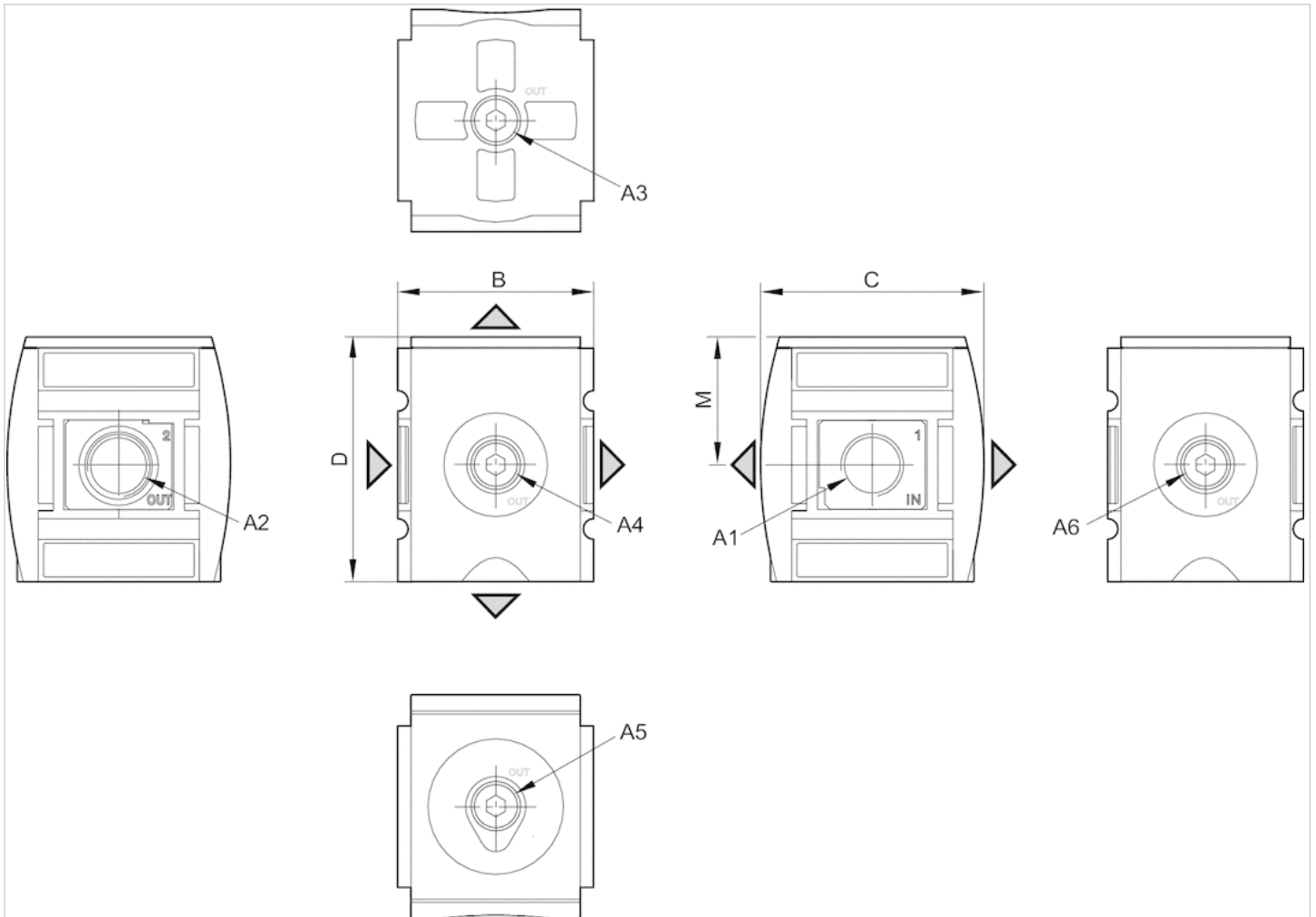
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



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

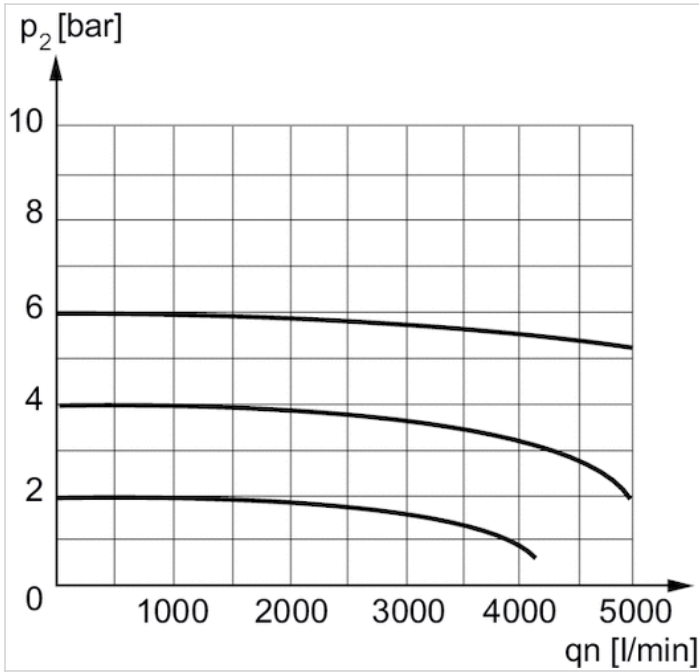
### Dimensions in mm

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

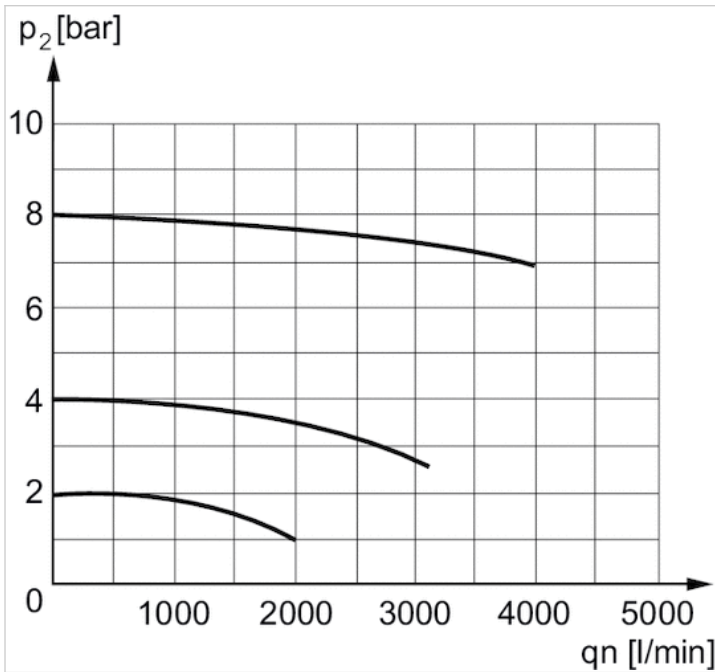


# Diagrams

## Flow rate characteristic

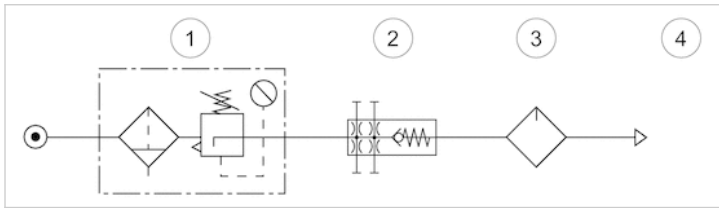


Nominal flow 1 ▶ 2  
 p2 = secondary pressure  
 qn = nominal flow



Nominal flow 1 ▶ 3  
 p2 = secondary pressure  
 qn = nominal flow

## usage



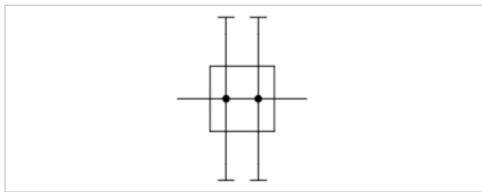
- 1) Filter pressure regulator
- 2) Non-return valve
- 3) Lubricator
- 4) Compressed air

# Distributor, Series AS3-DIC

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



Version	Center infeed, Can be assembled into blocks
Parts	Distributor
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Weight	0.705 lbs



## Technical data

Part No.	Port	Nominal flow	Nominal flow	Nominal flow	Nominal flow	Nominal flow
		Qn 1►2	Qn 1►3	Qn 1►4	Qn 1►5	Qn 1►6
R412007249	G 1/2	10.47 Cv	10.47 Cv	2.34 Cv	2.29 Cv	2.34 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

## Technical information

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

Additional air supply possible at connections A4 and A5.

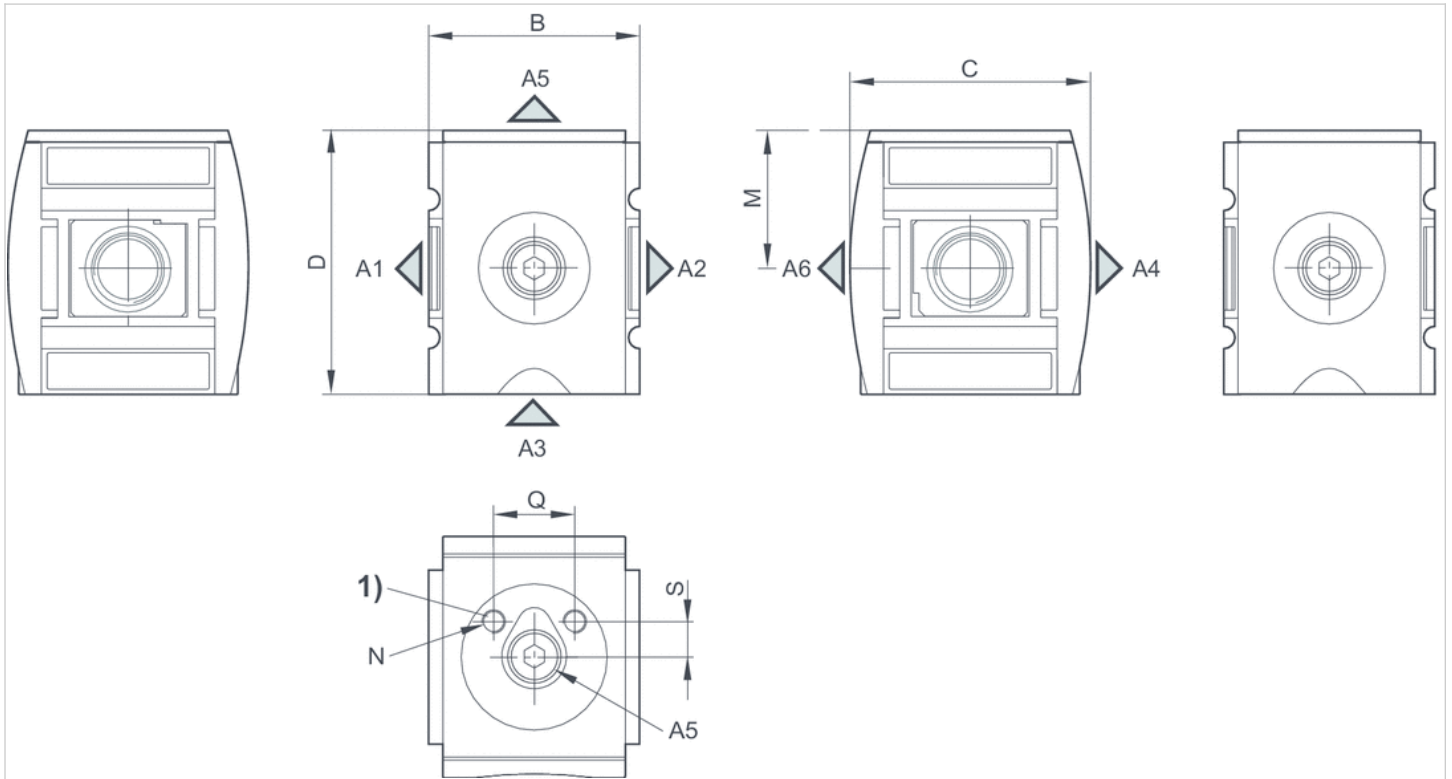
Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

## Dimensions

### Dimensions



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

### Dimensions in mm

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

# Reservoir, Series AS3-CLS/ -CLP/ -CLC

- for filters, pre-filters and microfilters
- Material Polycarbonate, Die cast zinc
- suitable for ATEX



Version	Reservoir
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air
Filter reservoir volume	1.66 fl.oz.
Weight	See table below

## Technical data

Part No.	Condensate drain	Reservoir
R412007338	semi-automatic, open without pressure	Polycarbonate
R412007339	fully automatic, open without pressure	Polycarbonate
R412007340	fully automatic, closed without pressure	Polycarbonate
R412007344	semi-automatic, open without pressure	Die cast zinc, with window
R412007345	fully automatic, open without pressure	Die cast zinc, with window
R412007346	fully automatic, closed without pressure	Die cast zinc, with window

Part No.	Protective guard	Weight	Fig.
R412007338	Polyamide	0.19 lbs	Fig. 1
R412007339	Polyamide	0.256 lbs	Fig. 2
R412007340	Polyamide	0.256 lbs	Fig. 2
R412007344	-	0.745 lbs	Fig. 1
R412007345	-	0.86 lbs	Fig. 2
R412007346	-	0.86 lbs	Fig. 2

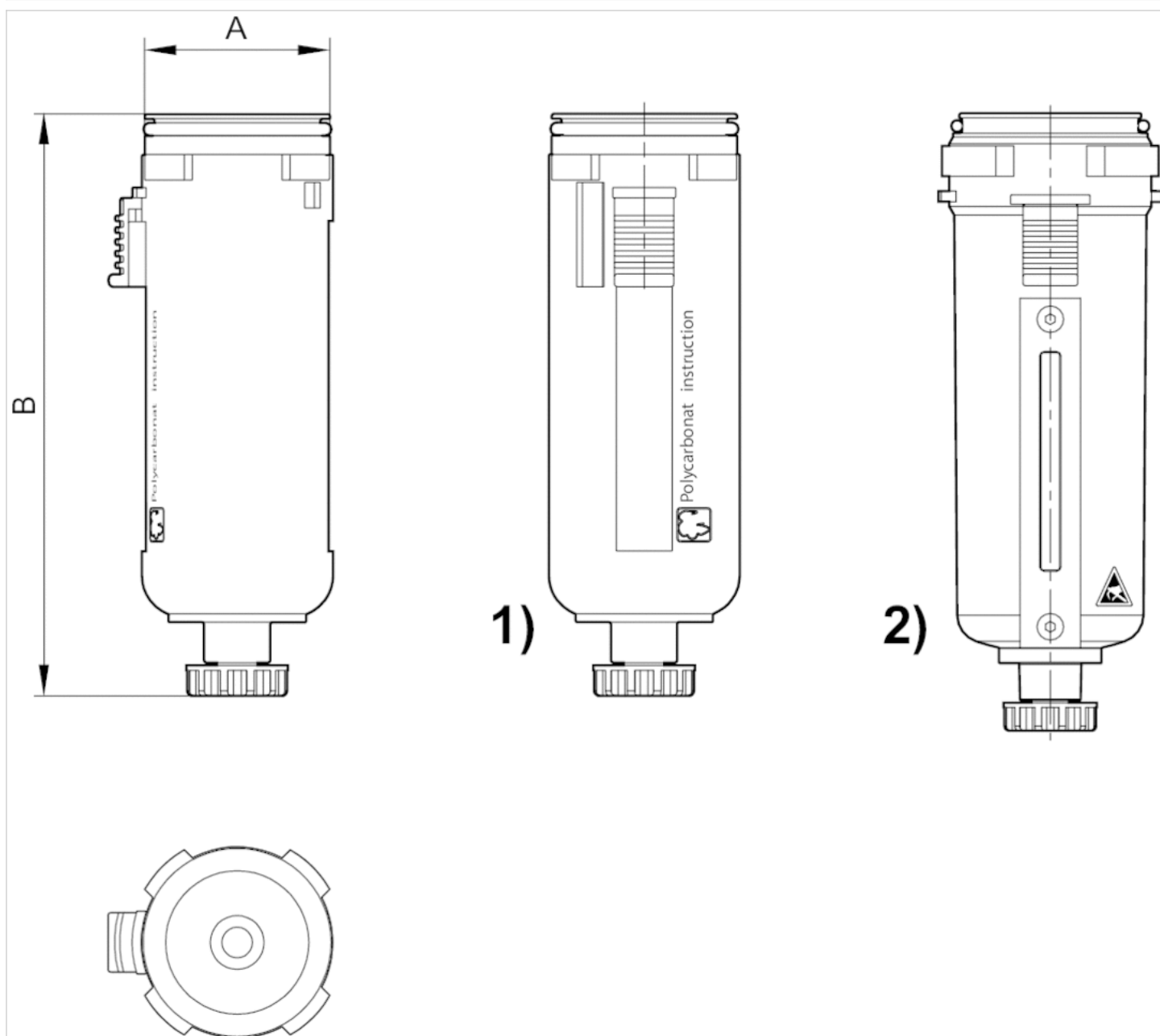
Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

Material	
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Seal	Acrylonitrile butadiene rubber

## Dimensions

Fig. 1



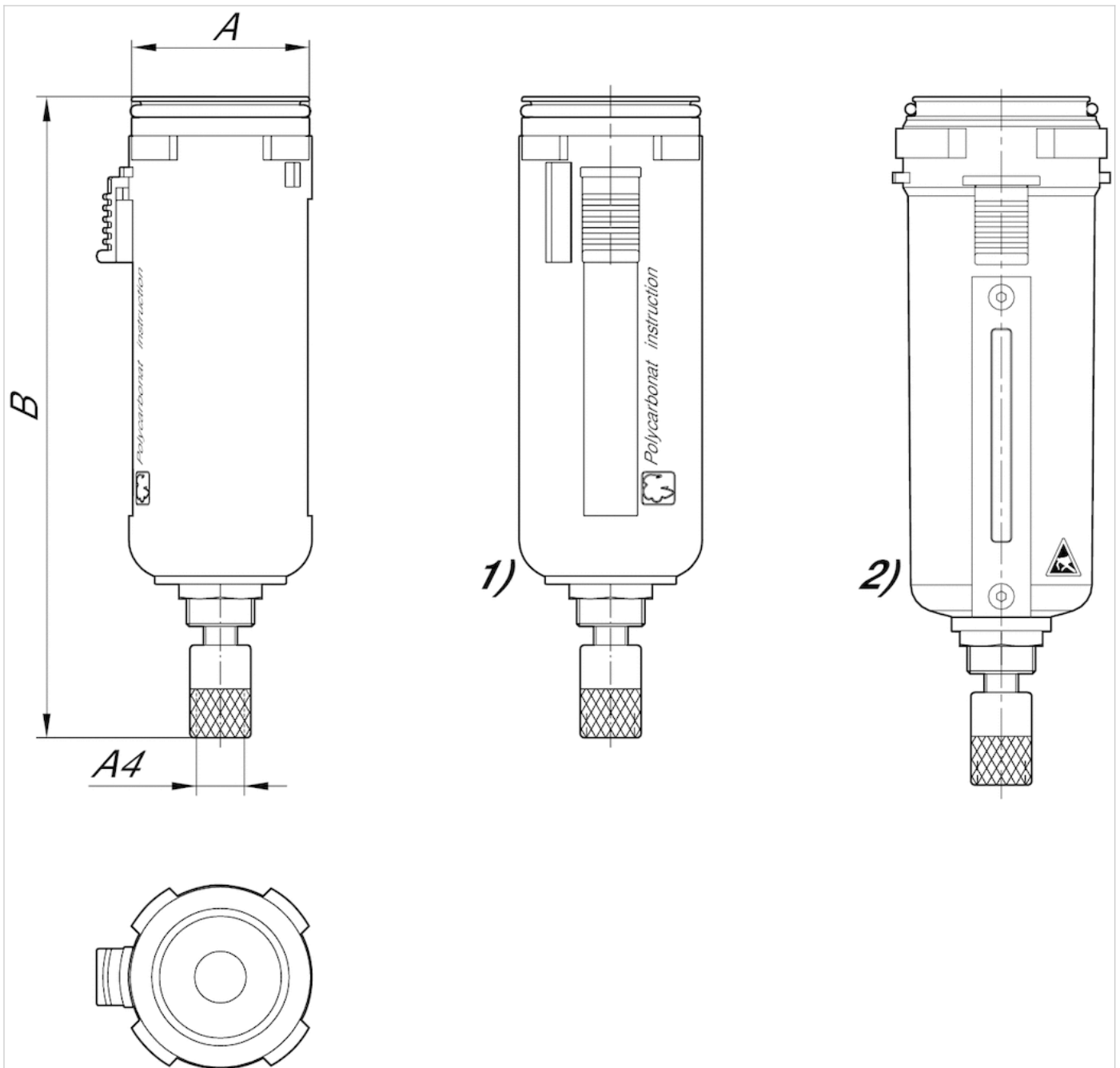
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass

## Dimensions in mm

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

## Dimensions

Fig. 2



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

## Dimensions in mm

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

# Reservoir, Series AS3-CLA

- for active carbon filter
- Material Polycarbonate, Die cast zinc
- suitable for ATEX



Version	Reservoir
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air
Filter reservoir volume	1.66 fl.oz.
Weight	See table below

## Technical data

Part No.	Reservoir	Protective guard	Weight
R412007347	Polycarbonate	Polyamide	0.19 lbs
R412007349	Die cast zinc, with window	-	0.745 lbs

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

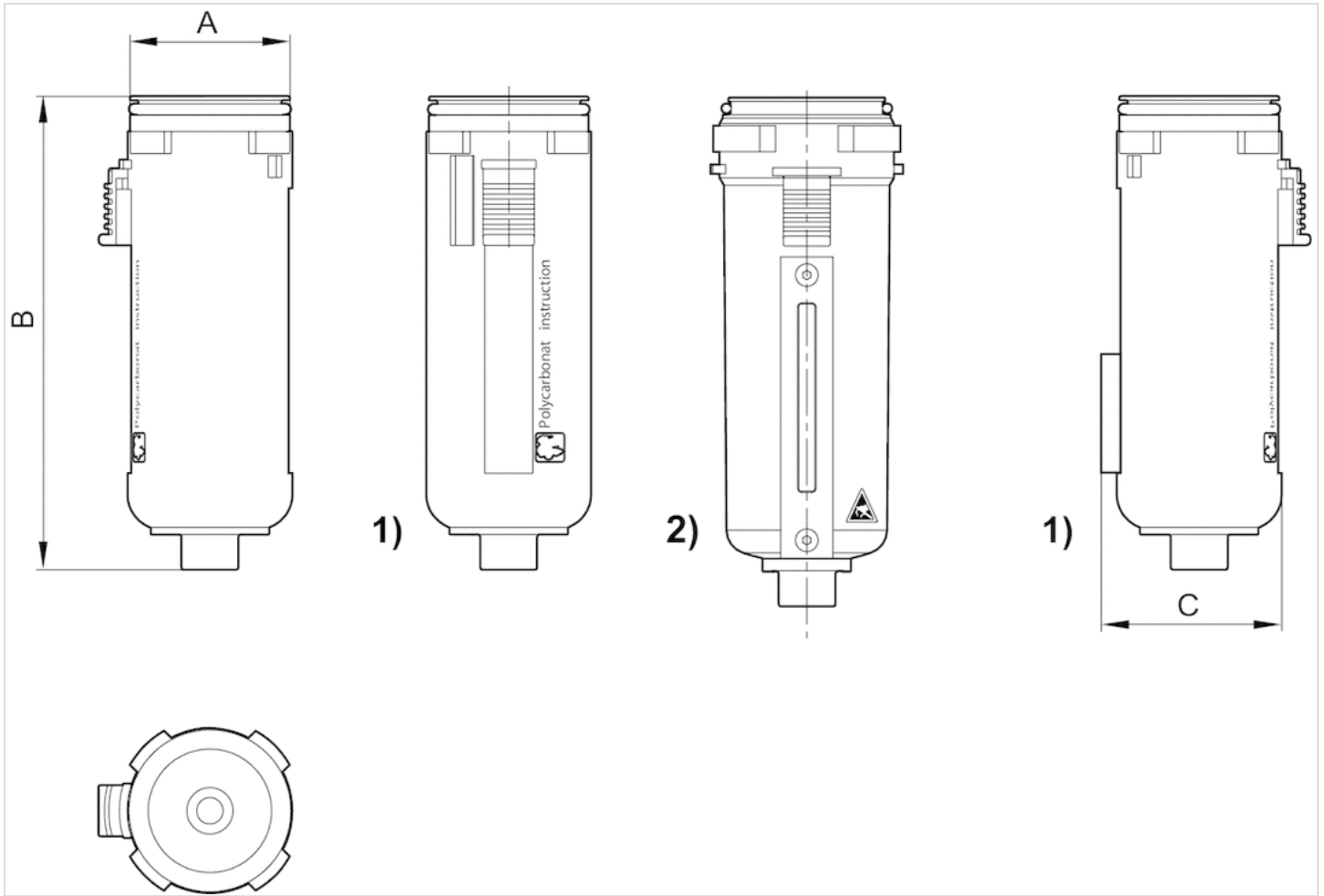
## Technical information

Material	
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Seal	Acrylonitrile butadiene rubber



## Dimensions

### Dimensions



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

### Dimensions in inches

Part No.	A	B
R412007347	43.8	122
R412007349	43.8	122

# Reservoir, Series AS3-CBS

- for lubricator
- Material Polycarbonate, Die cast zinc
- suitable for ATEX



Version	Reservoir
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Oil
Lubricator reservoir volume	2.71 fl.oz.
Weight	See table below

## Technical data

Part No.	Electrical level indicator	Reservoir	Protective guard	Weight
R412007352	-	Polycarbonate	Polyamide	0.19 lbs
R412007358	-	Die cast zinc, with window	-	0.738 lbs
R412007351	with external query	Polycarbonate	Polyamide	0.19 lbs

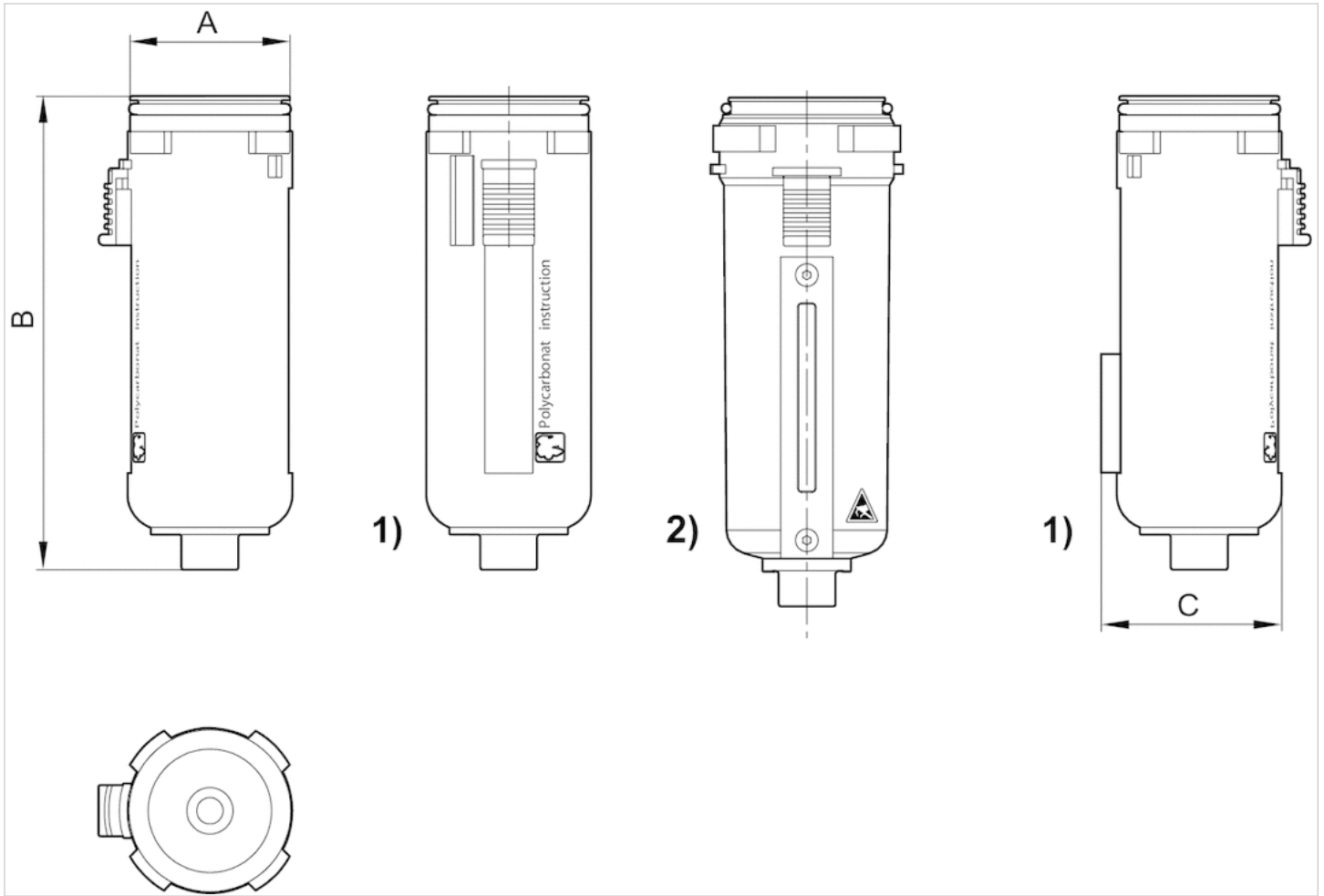
Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

Material	
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Polyamide
Seal	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



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

### Dimensions in inches

Part No.	A	B	C
R412007352	43.8	122	—
R412007358	43.8	126	—
R412007351	43.8	122	48

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



Ambient temperature min./max.

14 ... 122 °F

Weight

0.286 lbs

## Technical data

Part No.

R412007368

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

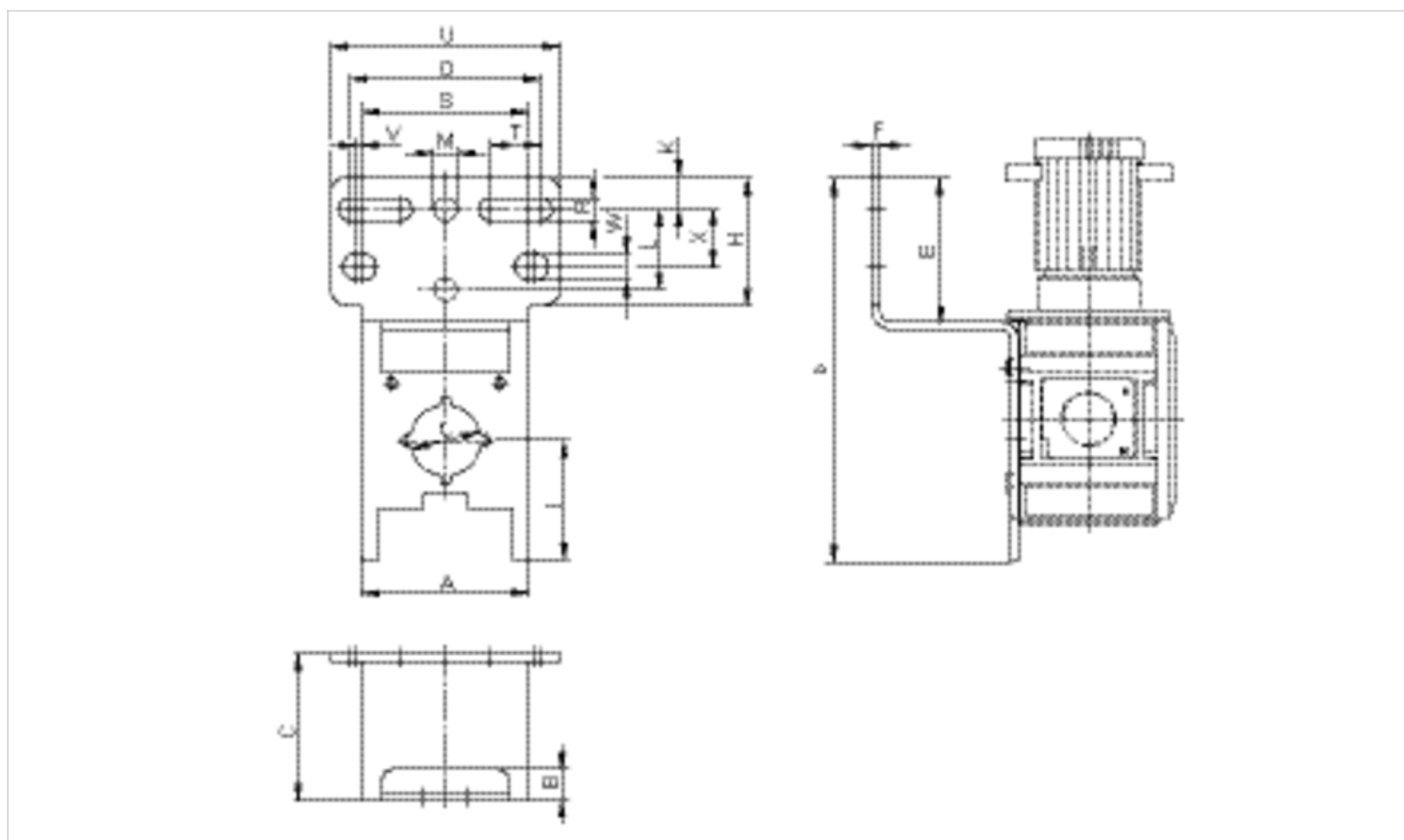
## Technical information

### Material

Housing	Steel, galvanized
Seal	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



### Dimensions in mm

Part No.	A	B	C	D	E	F	H	I	K	L	M	O	R	S	T	U	V	W	X
R412007368	52.5	10	46	120	45	2.5	40	37.5	10	25	6.5	60	7	52	16	72	2	8.5	18

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



Ambient temperature min./max. 14 ... 122 °F  
 Weight 0.286 lbs

## Technical data

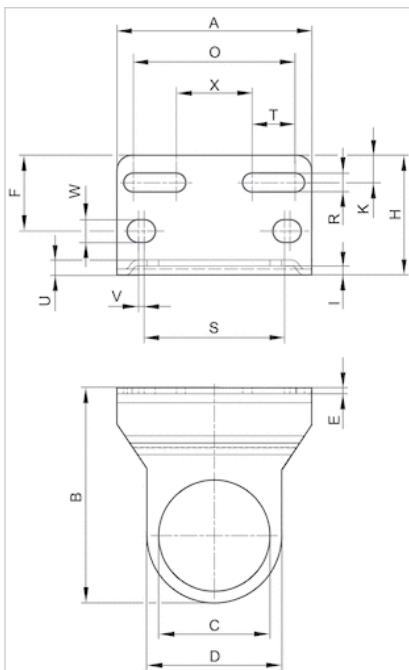
Part No.
R412007964

## Technical information

Material	
Housing	Steel, galvanized

## Dimensions

### Dimensions



## Dimensions in mm

Part No.	A	B	C	D	E	F	H	I	K	O	R	S	T	U	V	W	X
R412007964	72	98	43.2	52	2.5	28	44	4	10	60	7	52	16	6.5	2	8.5	28

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



Ambient temperature min./max.

14 ... 122 °F

Weight

0.121 lbs

## Technical data

Part No.

R412007370

Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

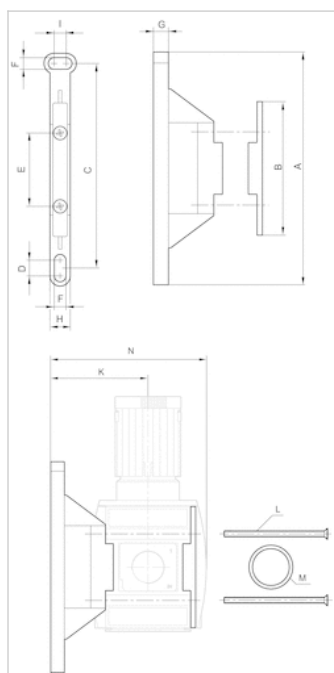
### Material

Housing	Polyamide
Seal	Acrylonitrile butadiene rubber



## Dimensions

### Dimensions



L = Mounting screw  
 M = O-ring

### Dimensions in mm

Part No.	A	B	C	D	E	F	G	H	I	K	L	M	N
R412007370	120	75	104	8	42	6.4	12	12	8	72	M5x68	23x2	109

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



Ambient temperature min./max. 14 ... 122 °F  
 Weight 0.121 lbs

## Technical data

Part No.
R412007373

Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

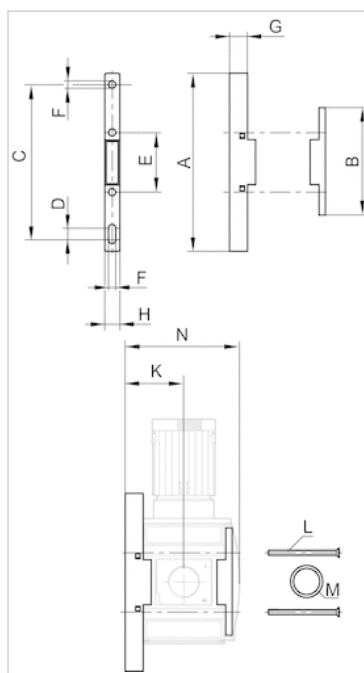
Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



### Dimensions in mm

Part No.	A	B	C	D	E	F	G	H	K	L	M	N
R412007373	124	75	108	8	42	5.5	12.5	10	38.5	M5x68	23x2	75.5

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



Ambient temperature min./max. 14 ... 122 °F  
 Weight 0.293 lbs

## Technical data

Part No.
R412026828

Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

## Technical information

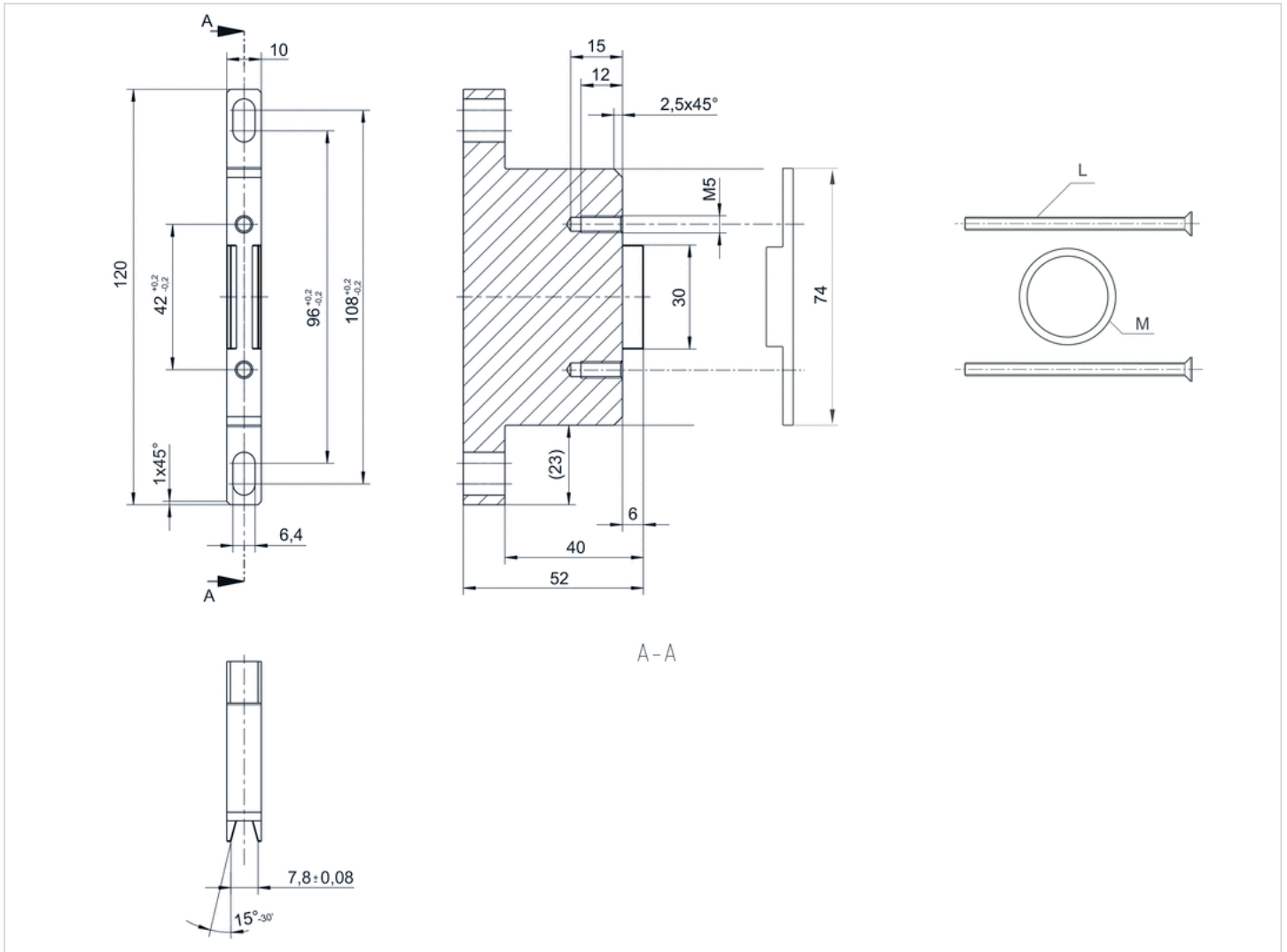
This mounting clip is recommended for installing an AS3-SV safety valve in a maintenance unit.

## Technical information

Material	
Housing	Aluminum
Seal	Acrylonitrile butadiene rubber

# Dimensions

## Dimensions



L = Mounting screw  
 M = O-ring

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



Ambient temperature min./max. 14 ... 122 °F  
 Weight 0.07 lbs

## Technical data

Part No.
R412007371

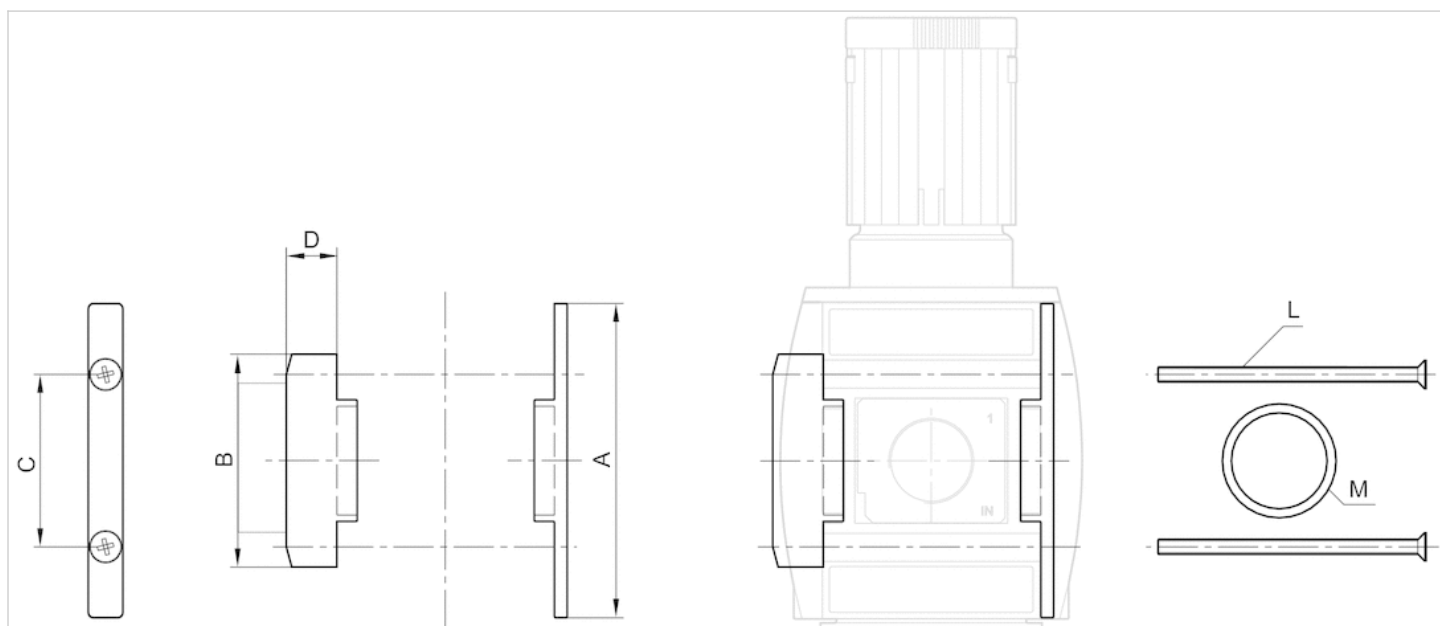
Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

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

## Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber

## Dimensions



### Dimensions in mm

Part No.	A	B	C	D	L	M
R412007371	75	75	42	12.5	M5x68	23x2

# Block assembly kit, Series AS3-MBR-...-W05

- G 3/8 - G 1/2



Ambient temperature min./max. 14 ... 122 °F  
 Weight 1.82 lbs

## Technical data

Part No.	Port
R412007366	G 3/8
R412007367	G 1/2

Scope of delivery incl. 4 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 2x O-ring

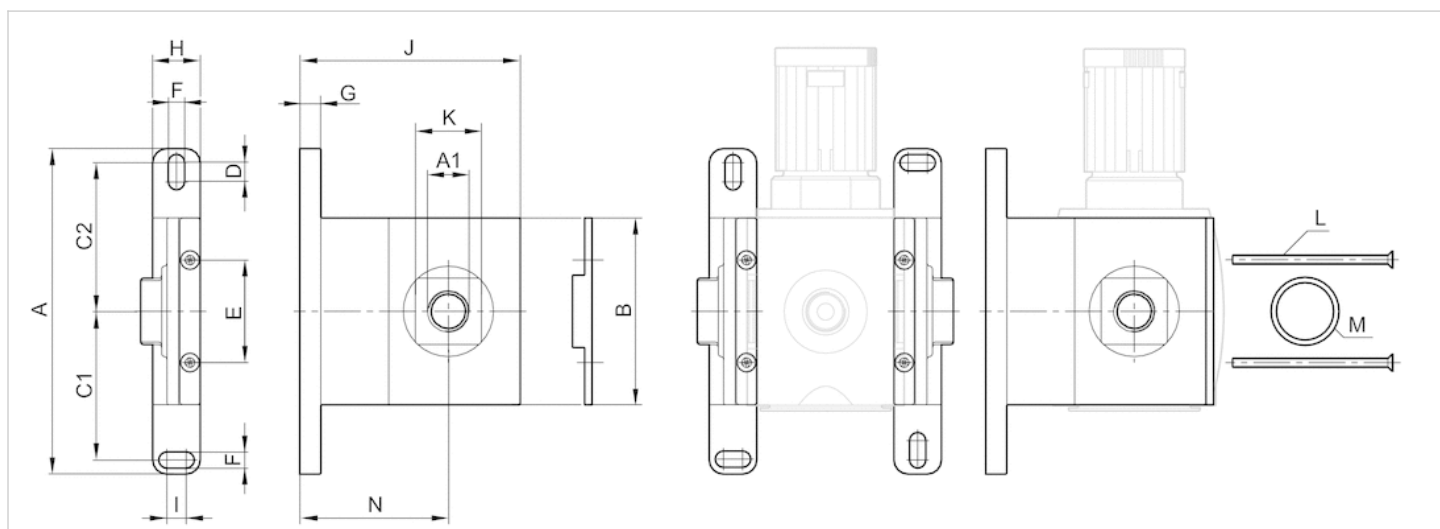
## Technical information

Material	
Housing	Die cast zinc, painted
Seal	Acrylonitrile butadiene rubber



## Dimensions

### Dimensions



## Dimensions

Part No.	A1	A	B	C1	C2	D	E	F	G	H	I	J	K	L	M	N
R412007366	G 3/8	120	75	54	54	8	42	6.4	7	20	8	102.5	30	M5x68	23x2	72
R412007367	G 1/2	120	75	54	54	8	42	6.4	7	20	8	102.5	30	M5x68	23x2	72

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



Ambient temperature min./max.

14 ... 122 °F

## Technical data

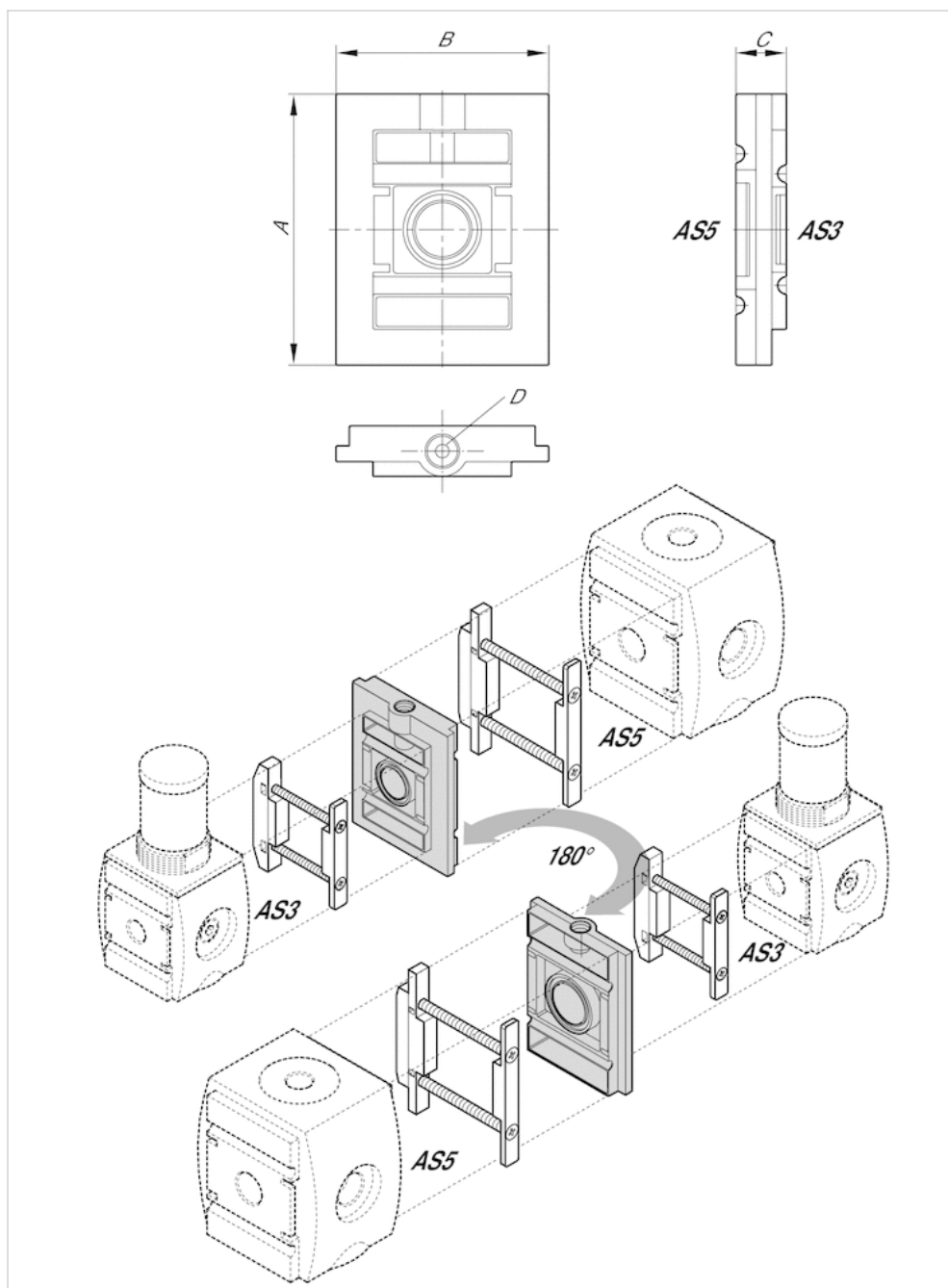
Part No.	Port
R412010122	G 1/4

scope of delivery incl. seal

## Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber

## Dimensions



### Dimensions in mm

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

# Block assembly kit, Series AS2/AS3-MBR-...-W07



Ambient temperature min./max. 14 ... 122 °F

## Technical data

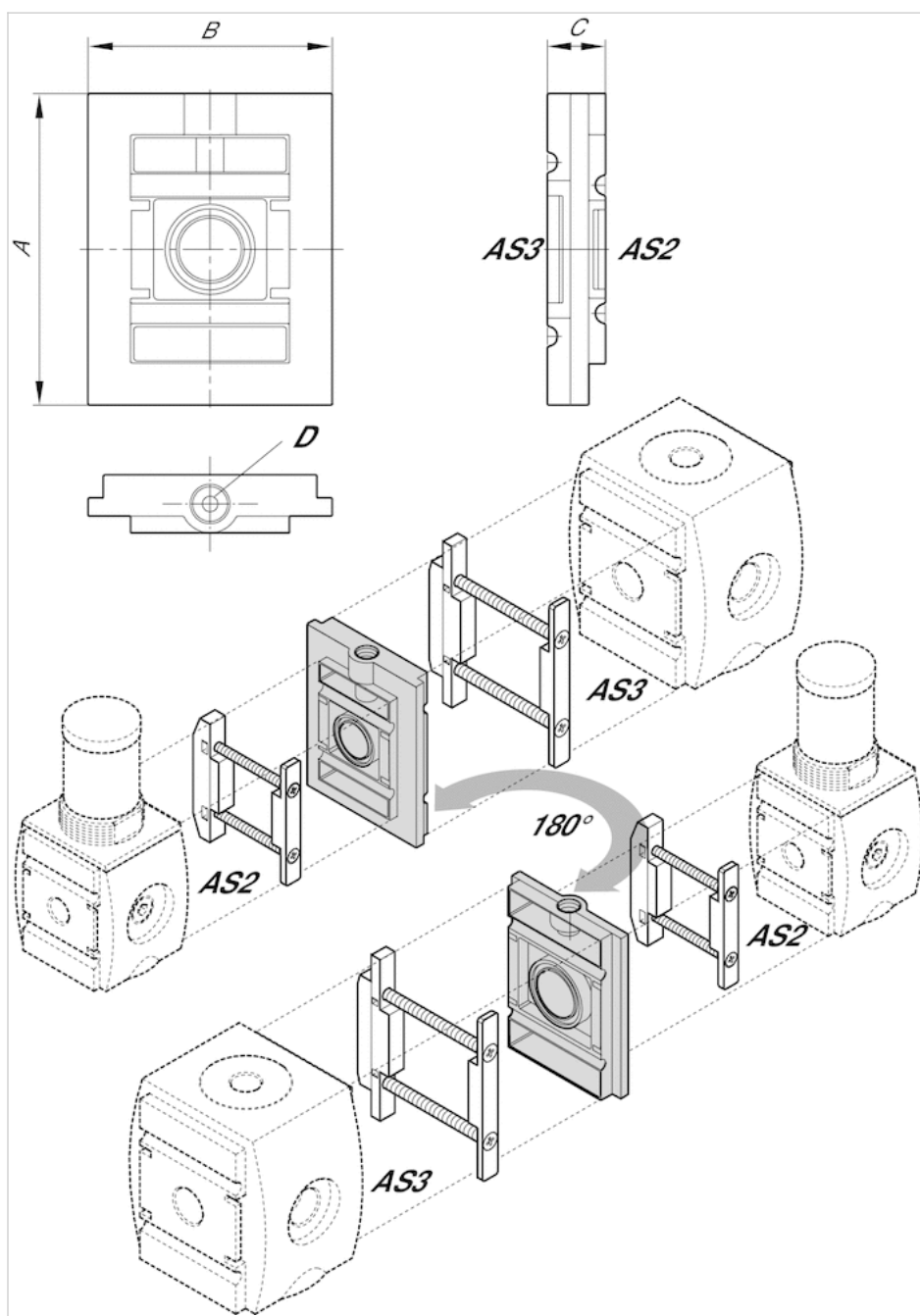
Part No.	Port
R412010121	G 1/8

scope of delivery incl. seal

## Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber

## Dimensions



scope of delivery incl. seal

## Dimensions

Part No.	A	B	C	D
R412010121	75	61	14	G 1/8

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

- for AS3



Ambient temperature min./max.

Weight

See table below

See table below

The delivered product may vary from that in the illustration.

## Technical data

Part No.	Port	Material	Scope of delivery	Weight
1829234072	M42x1.5	Brass	5 piece	0.044 lbs
R412007372	M42x1.5	Polyamide	-	-

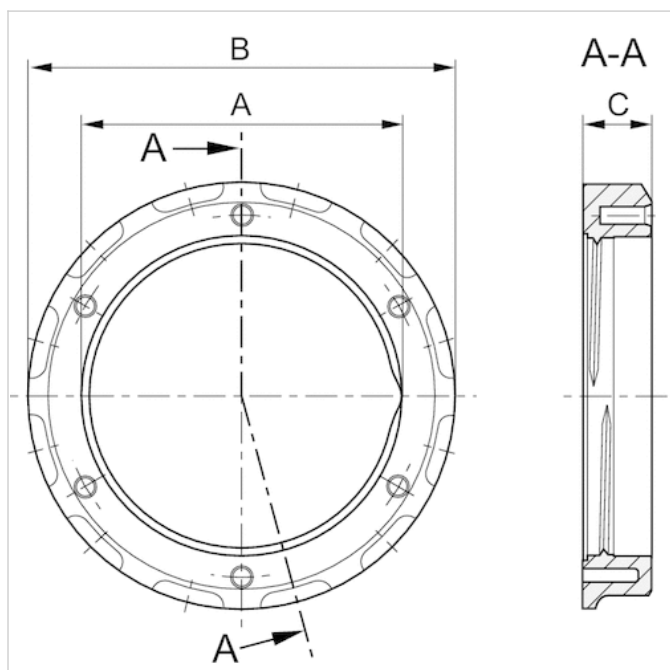
Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

Material	
Housing	Brass, Polyamide

## Dimensions

### Dimensions



## Dimensions

Part No.	For series	A	B	C
1829234072	AS3	M42x1,5	47	5.5
R412007372	AS3	M42x1,5	55,5	8

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

- for AS3



Ambient temperature min./max. 14 ... 122 °F

## Technical data

Part No.	Port
R412007363	M42x1.5

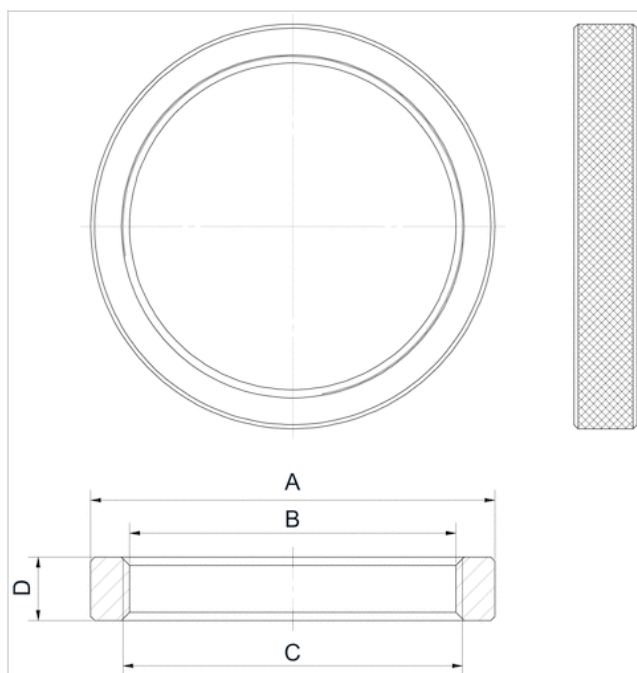
Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

Material	
Housing	Brass



## Dimensions



## Dimensions

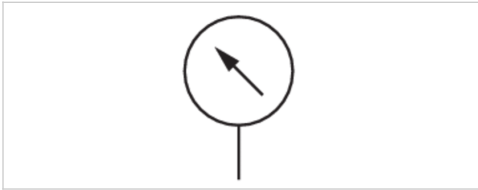
Part No.	für Serie	A	B	C	D	Material
R412007363	AS3	50	41,1	M42x1,5	7,8	Brass

# Pressure gauge, Series PG1-SAS

- Back port
- Background color Black
- Scale color White, Grey
- Viewing window Polystyrene
- Units bar
- Units psi



Version	Bourdon tube pressure gauge
Standardization	EN 837-1
Class	2,5
Ambient temperature min./max.	-40 ... 140 °F
Medium	Compressed air
Main scale unit (outside)	bar
Main scale color (outside)	White
Secondary scale unit (inside)	psi
Secondary scale color (inside)	Grey
Background color	Black
Pointer color	White
Weight	See table below



## Technical data

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
R412004407	G 1/4	1.57 inch	0 ... 1.2 bar	0 ... 1.6 bar	0 ... 23 psi	0.05
R412004408	G 1/4	1.57 inch	0 ... 2 bar	0 ... 2.5 bar	0 ... 36 psi	0.1
R412004409	G 1/4	1.57 inch	0 ... 3.2 bar	0 ... 4 bar	0 ... 58 psi	0.1
R412004410	G 1/4	1.57 inch	0 ... 4 bar	0 ... 6 bar	0 ... 87 psi	0.2
R412004411	G 1/4	1.57 inch	0 ... 8 bar	0 ... 10 bar	0 ... 145 psi	0.2
R412004412	G 1/4	1.57 inch	0 ... 12 bar	0 ... 16 bar	0 ... 232 psi	0.5
R412004413	G 1/4	1.97 inch	0 ... 1.2 bar	0 ... 1.6 bar	0 ... 23 psi	0.05
R412004414	G 1/4	1.97 inch	0 ... 2 bar	0 ... 2.5 bar	0 ... 36 psi	0.1
R412004415	G 1/4	1.97 inch	0 ... 3.2 bar	0 ... 4 bar	0 ... 58 psi	0.1
R412004416	G 1/4	1.97 inch	0 ... 4 bar	0 ... 6 bar	0 ... 87 psi	0.2
R412004417	G 1/4	1.97 inch	0 ... 8 bar	0 ... 10 bar	0 ... 145 psi	0.2
R412004418	G 1/4	1.97 inch	0 ... 12 bar	0 ... 16 bar	0 ... 232 psi	0.5
R412007898	G 1/4	1.97 inch	0 ... 20 bar	0 ... 25 bar	0 ... 362 psi	1
R412004419	G 1/4	2.48 inch	0 ... 1.2 bar	0 ... 1.6 bar	0 ... 23 psi	0.05
R412004420	G 1/4	2.48 inch	0 ... 2 bar	0 ... 2.5 bar	0 ... 36 psi	0.1
R412004421	G 1/4	2.48 inch	0 ... 3.2 bar	0 ... 4 bar	0 ... 58 psi	0.1
R412004422	G 1/4	2.48 inch	0 ... 4 bar	0 ... 6 bar	0 ... 87 psi	0.2
R412004423	G 1/4	2.48 inch	0 ... 8 bar	0 ... 10 bar	0 ... 145 psi	0.2
R412004424	G 1/4	2.48 inch	0 ... 12 bar	0 ... 16 bar	0 ... 232 psi	0.5

Part No.	Weight	
R412004407	0.176 lbs	-
R412004408	0.176 lbs	-
R412004409	0.176 lbs	-
R412004410	0.176 lbs	-
R412004411	0.176 lbs	-
R412004412	0.176 lbs	-
R412004413	0.198 lbs	-
R412004414	0.198 lbs	-
R412004415	0.198 lbs	-
R412004416	0.198 lbs	-
R412004417	0.198 lbs	1)
R412004418	0.198 lbs	1)
R412007898	0.198 lbs	-
R412004419	0.22 lbs	-
R412004420	0.22 lbs	-
R412004421	0.22 lbs	-
R412004422	0.22 lbs	-
R412004423	0.22 lbs	-
R412004424	0.22 lbs	-

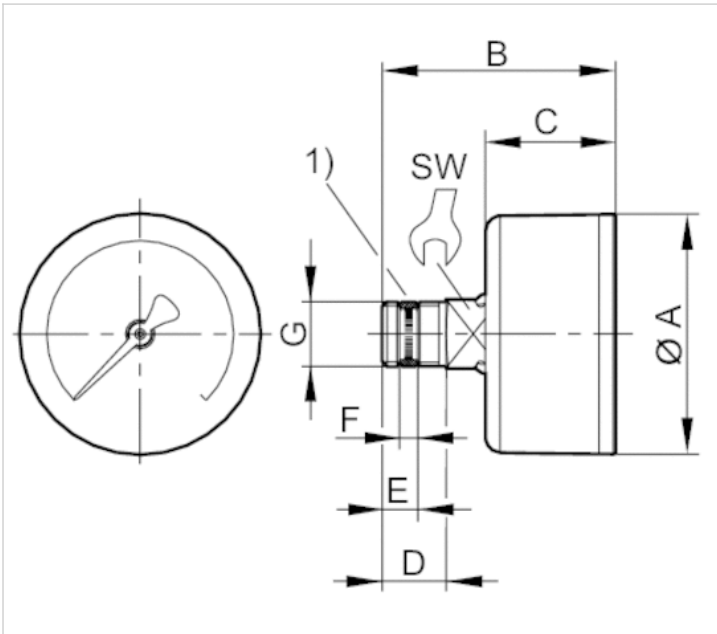
1) Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

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

## Dimensions

### Dimensions



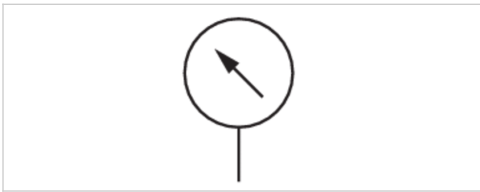
1) Gasket thread

### Dimensions in mm

Compressed air connection	Nominal diameter	Ø A	B	C	D	E	F 1)	SW
G 1/4	1.57 inch	39	47.5	26.5	13	7.2	3.7	14
G 1/4	1.97 inch	49	47.5	26.5	13	7.2	3.7	14
G 1/4	2.48 inch	62	47	29	13	7.2	3.7	14

# Pressure gauge, Series PG1-SAS-ADJ

- Back port
- with adjustable work area display
- Background color Black
- Scale color White, Grey
- Viewing window Polystyrene
- Units bar
- Units psi



Version	Bourdon tube pressure gauge
Version	with adjustable work area display
Standardization	EN 837-1
Class	2,5
Ambient temperature min./max.	-40 ... 140 °F
Medium	Compressed air
Work area	adjustable work area display
Work Area Display, Color	Red, Green
Main scale unit (outside)	bar
Main scale color (outside)	White
Secondary scale unit (inside)	psi
Secondary scale color (inside)	Grey
Background color	Black
Pointer color	White
Weight	0.22 lbs

## Technical data

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
R412007867	G 1/4	1.97 inch	0 bar ... 1.2	0 bar ... 1.6	0 ... 23 psi	0.05
R412007868	G 1/4	1.97 inch	0 bar ... 2	0 bar ... 2.5	0 ... 36 psi	0.1
R412007869	G 1/4	1.97 inch	0 bar ... 3.2	0 bar ... 4	0 ... 58 psi	0.1
R412007870	G 1/4	1.97 inch	0 bar ... 4	0 bar ... 6	0 ... 87 psi	0.2
R412007871	G 1/4	1.97 inch	0 bar ... 8	0 bar ... 10	0 ... 145 psi	0.2
R412007872	G 1/4	1.97 inch	0 bar ... 12	0 bar ... 16	0 ... 232 psi	0.5

## Technical information

To set the operating range, the cover (inspection glass) must be removed. To do this, carefully lift the inspection glass by inserting a pointed or flat object in the slot provided for this purpose on the housing circumference.

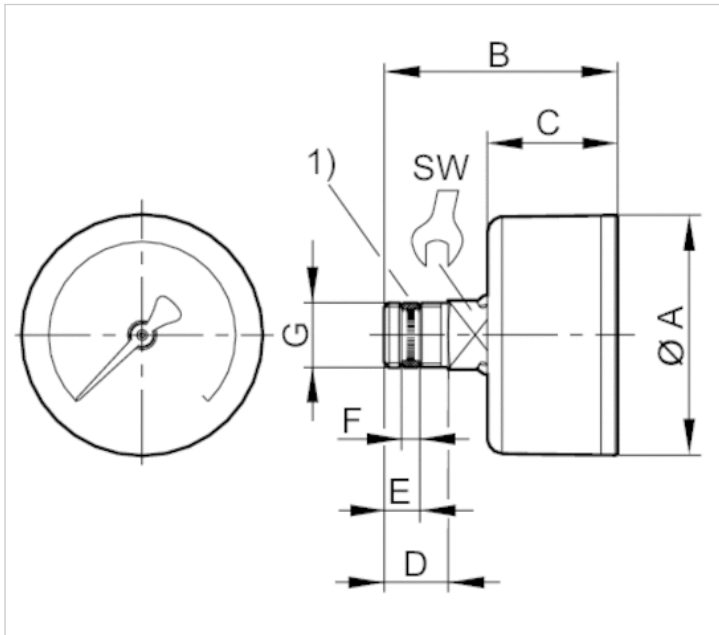
## Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass

Material	
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

## Dimensions

### Dimensions



1) Gasket thread

### Dimensions in mm

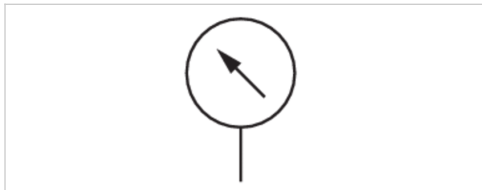
Compressed air connection	Nominal diameter	Ø A	B	C	D	E	F	SW
G 1/4	1.97 inch	49	47.5	26.5	13	7.2	3.7	14

# Pressure gauge, Series PG1-DIM

- for differential pressure measurement for prefilters and microfilters
- flange version
- Background color White
- Scale color Black
- Viewing window Polystyrene
- Units bar
- suitable for ATEX



Version	Diaphragm pressure gauge
Mounting orientation	vertical
Ambient temperature min./max.	32 ... 140 °F
Medium	Compressed air
Color for differential pressure range	Green, Red
Main scale unit (outside)	bar
Main scale color (outside)	Black
Background color	White
Pointer color	Black
Weight	0.28 lbs



## Technical data

Part No.	Range of application	Display range	Operating pressure	Scale value
1827231072	0 ... 0.5 bar	0 ... 0.5 bar	0 ... 232 psi	0.1

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

## Technical information

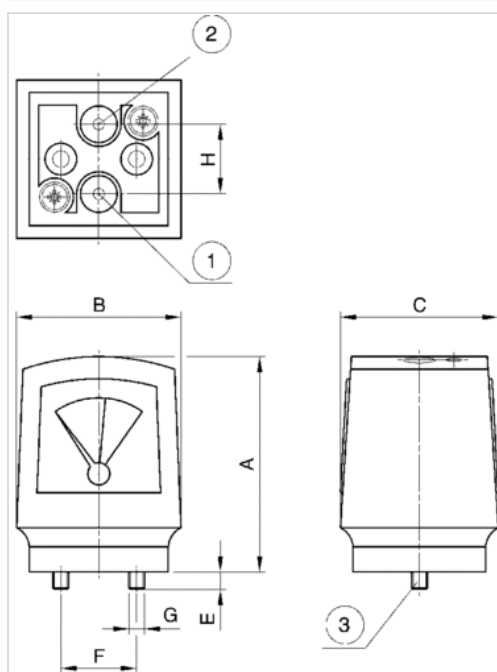
Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

Material	
Housing	Polyamide, fiber-glass reinforced
Viewing window	Polystyrene
Seal	Acrylonitrile butadiene styrene

## Dimensions

### Dimensions



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

### Dimensions in mm

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



# contamination display

- for prefilters and microfilters



Weight

0.055 lbs

## Technical data

Part No.

R412006363

2 mounting screws and 2 O-rings supplied loose, Suitable for use in Ex zones 1, 2, 21, 22

## Technical information

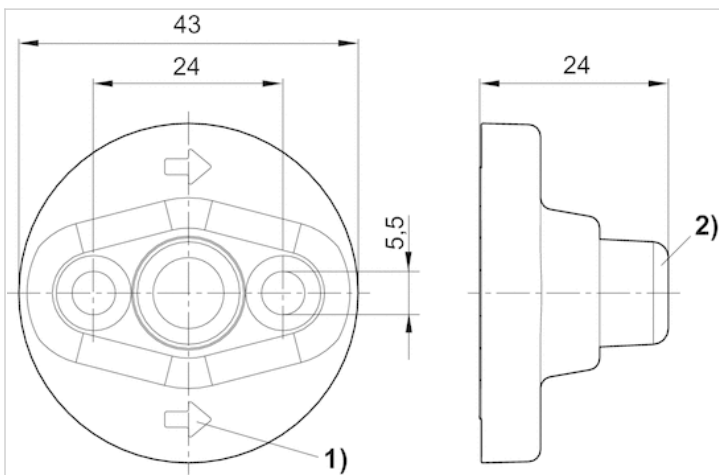
Material

Material

Polyamide

## Dimensions

### Dimensions



1) Flow direction

2) Display in initial state: green (=  $\Delta p$  0.35 bar )

Display turns red on contamination of the filter element (=  $\Delta p \geq 0.35$  bar ).

## Dimensions in mm

Part No.	A	B	C	D
R412006363	43	24	5.5	24

# 3/2-directional valve, Series DO16

- 3/2
- Plate connection
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent, with detent
- With spring return



Version	Poppet valve
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m <sup>3</sup>
Nominal flow 1 ▶ 2	See table below
Nominal flow 2 ▶ 3	See table below
Protection class acc. to DIN EN 61140,Electrically	Class I
Protection class,with connection	IP65
Duty cycle	100 %
Mounting on manifold strip	PRS strip
mounting screws	M3
Weight	0.077 lbs

## Technical data

Part No.	MO	Operational voltage	
		DC	AC 50 Hz
0820048002		24 V	-
0820048004		-	24 V
0820048005		-	-
0820048001		-	230 V
0820048026		24 V	-
0820048028		-	24 V
0820048101		-	230 V
0820048029		-	-
0820048025		-	230 V
0820048102		24 V	-
0820048126		24 V	-

Part No.	Operational voltage	Voltage tolerance		
		DC	AC 50 Hz	AC 60 Hz
0820048002	-	-10% / +15%	-	-
0820048004	-	-	-10% / +15%	-
0820048005	110 V	-	-	-10% / +15%
0820048001	-	-	-10% / +15%	-

Part No.	Operational voltage	Voltage tolerance		
		DC	AC 50 Hz	AC 60 Hz
0820048026	-	-10% / +15%	-	-
0820048028	-	-	-10% / +15%	-
0820048101	-	-	-10% / +15%	-
0820048029	110 V	-	-	-10% / +15%
0820048025	-	-	-10% / +15%	-
0820048102	-	-10% / +15%	-	-
0820048126	-	-10% / +15%	-	-

Part No.	Power consumption		Holding power		Switch-on power
	DC	AC 50 Hz	AC 50 Hz	AC 60 Hz	AC 50 Hz
0820048002	2 W	-	-	-	-
0820048004	-	1.6 VA	-	-	2.2 VA
0820048005	-	-	-	1.4 VA	-
0820048001	-	1.6 VA	-	-	2.2 VA
0820048026	2 W	-	-	-	-
0820048028	-	1.6 VA	-	-	2.2 VA
0820048101	-	1.6 VA	-	-	2.2 VA
0820048029	-	-	-	1.4 VA	-
0820048025	-	1.6 VA	-	-	2.2 VA
0820048102	2 W	-	-	-	-
0820048126	2 W	-	-	-	-

Part No.	Switch-on power		Nominal flow 1 ▶ 2	Nominal flow 2 ▶ 3	Working pressure min./max.
	AC 60 Hz				
0820048002	-		0.025 Cv	0.036 Cv	0 ... 145 psi
0820048004	-		0.025 Cv	0.036 Cv	0 ... 145 psi
0820048005	2 VA		0.025 Cv	0.036 Cv	0 ... 145 psi
0820048001	-		0.025 Cv	0.036 Cv	0 ... 145 psi
0820048026	-		0.025 Cv	0.036 Cv	0 ... 145 psi
0820048028	-		0.025 Cv	0.036 Cv	0 ... 145 psi
0820048101	-		0.016 Cv	0.019 Cv	0 ... 87 psi
0820048029	2 VA		0.025 Cv	0.036 Cv	0 ... 145 psi
0820048025	-		0.025 Cv	0.036 Cv	0 ... 145 psi
0820048102	-		0.02 Cv	0.026 Cv	0 ... 116 psi
0820048126	-		0.02 Cv	0.026 Cv	0 ... 116 psi

Nominal flow Q<sub>n</sub> at 87 psi and Δp = 14.5 psi, MO = Manual override

## Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The oil content of compressed air must remain constant during the life cycle.

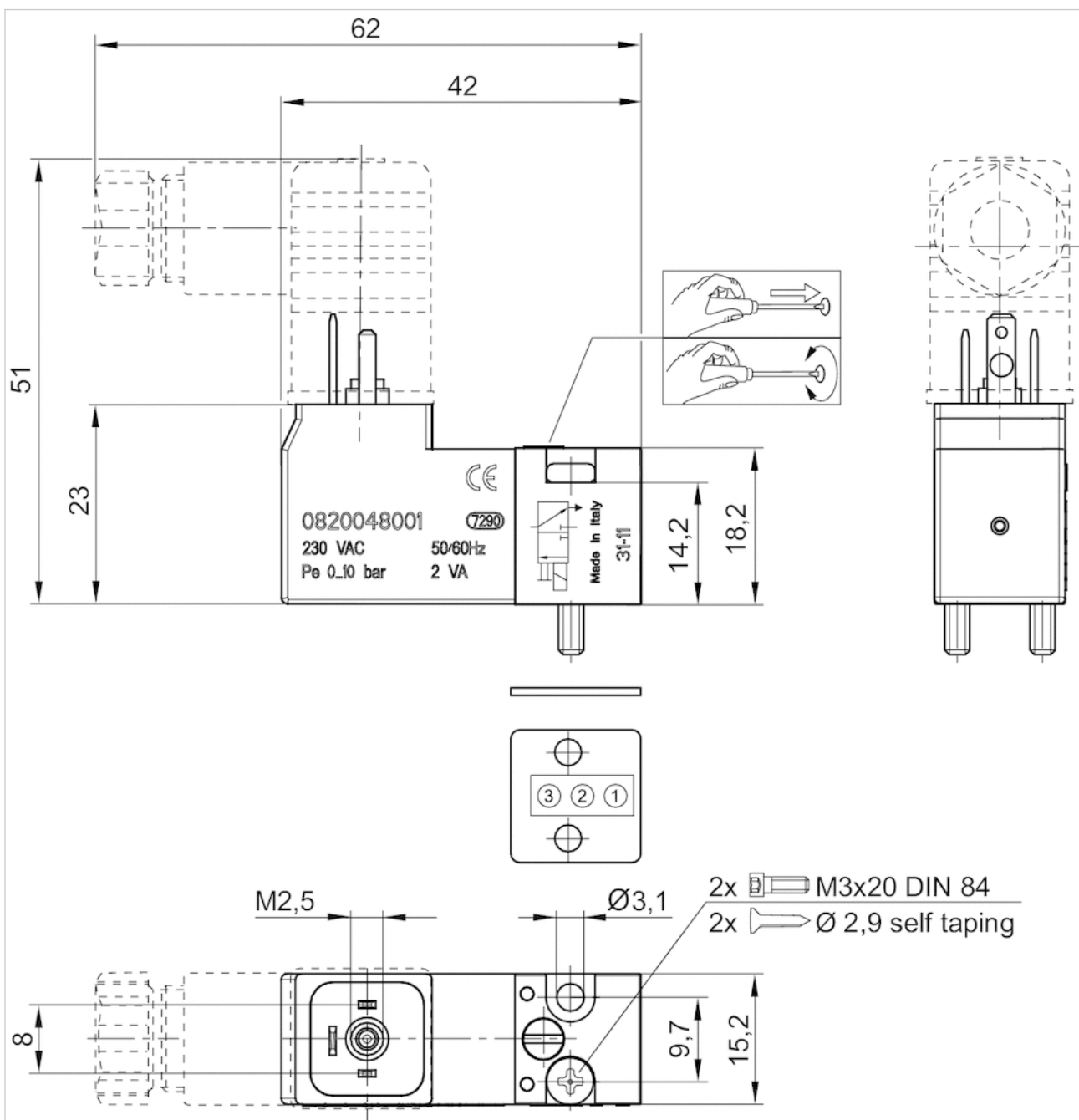
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Material	
Housing	polyphenylene sulfide, Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions





# 3/2-directional valve, Series DO30

- 3/2
- Pilot valve width : 30 mm
- Plate valve with pipe connection
- Compressed air connection output : CNOMO
- Electrical connection : Plug, EN 175301-803, form A
- Manual override : without detent, with detent
- With spring return
- suitable for ATEX



Version	Poppet valve
Activation	Electrically
Sealing principle	Soft sealing
Standards	CNOMO / NFE 49-003-1
Working pressure min./max.	0 ... 145 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m <sup>3</sup>
Nominal flow 1 ▶ 2	See table below
Nominal flow 2 ▶ 3	See table below
Protection class,with connection	IP65
Compatibility index	15
Duty cycle	100 %
Mounting on manifold strip mounting screws	P-strip M4
Weight	0.132 lbs

## Technical data

Part No.	MO	Compressed air connection	
		Input	Output
0820019985		CNOMO	CNOMO
0820019980		CNOMO	CNOMO

Part No.	Compressed air connection		Nominal flow 1 ▶ 2	Nominal flow 2 ▶ 3
	Exhaust			
0820019985	M5		0.069 Cv	0.091 Cv
0820019980	M5		0.066 Cv	0.081 Cv

Part No.	basic valve with electrical connector	ATEX
0820019985	Basic valve without coil	suitable for ATEX
0820019980	Basic valve without coil	suitable for ATEX

Nominal flow Qn at 87 psi and Δp = 14.5 psi, MO = Manual override pilot valve without coil

## Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .  
 The oil content of compressed air must remain constant during the life cycle.  
 Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

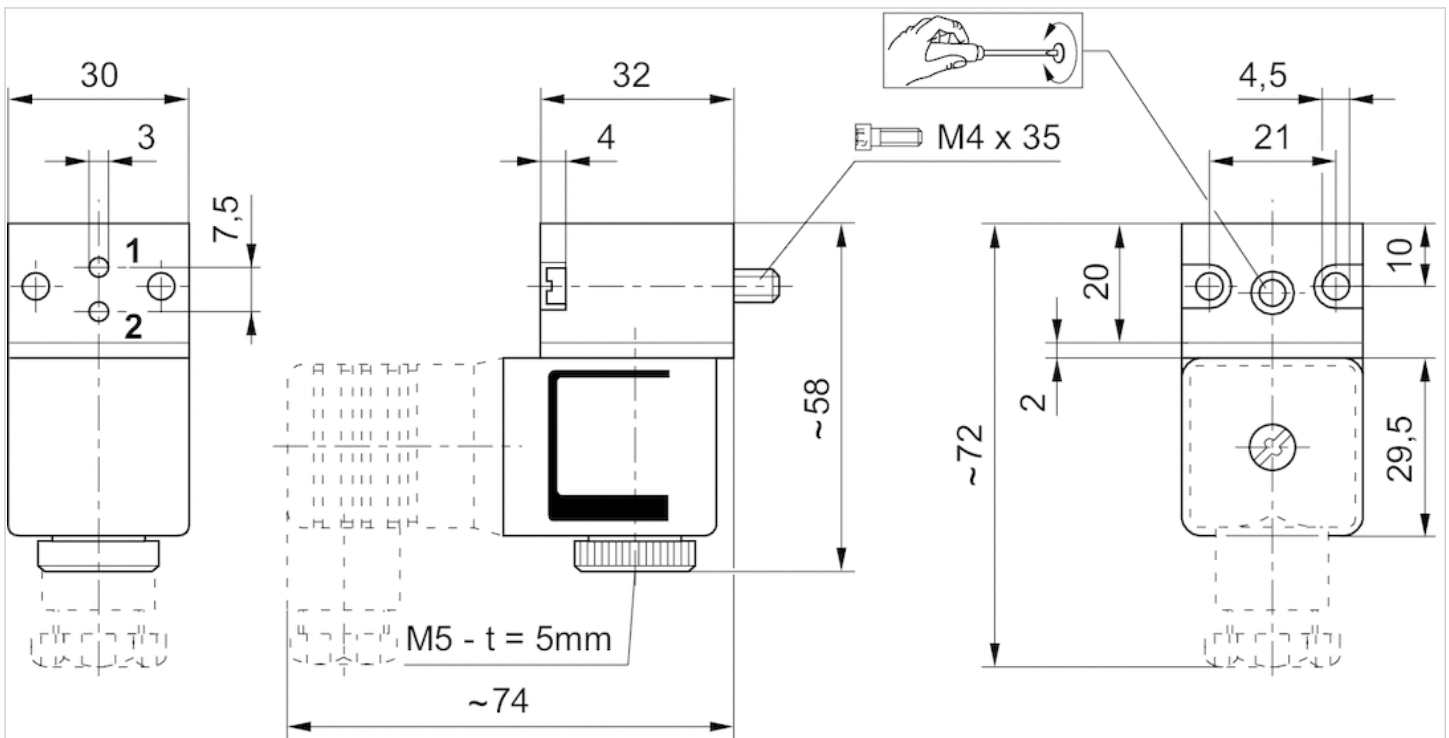
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

## Technical information

Material	
Housing	Plastic
Seals	Fluorocaoutchouc

## Dimensions

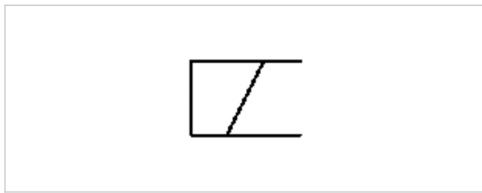
### Dimensions



t = depth

# Coil, Series C01

- Cable with valve plug connector
- Power consumption,DC 3.25 W
- Holding power,AC 2.9-3 VA
- Switch-on power,AC 3-3.1 VA
- ATEX



Certificates	ATEX
ATEX class G	II 2G Ex mb IIC T4 Gb
ATEX class D	II 2D Ex mb tb IIIC T130°C Db IP65
Ambient temperature min./max.	-4 ... 122 °F
Protection class	IP65
Duty cycle ED	100 %
Compatibility index	14
Weight	See table below

## Technical data

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
1827414297	-	230 V	230 V
1827414298	-	230 V	230 V
1827414299	-	110 V	110 V
1827414303	24 V	-	-
1827414304	24 V	-	-

Part No.	Voltage tolerance	Voltage tolerance	Power consumption	Holding power
	DC	AC 50 Hz	DC	AC 50 Hz
1827414297	-	-10% / +10%	-	3 VA
1827414298	-	-10% / +10%	-	3 VA
1827414299	-	-10% / +10%	-	2.9 VA
1827414303	-10% / +10%	-	3.25 W	-
1827414304	-10% / +10%	-	3.25 W	-

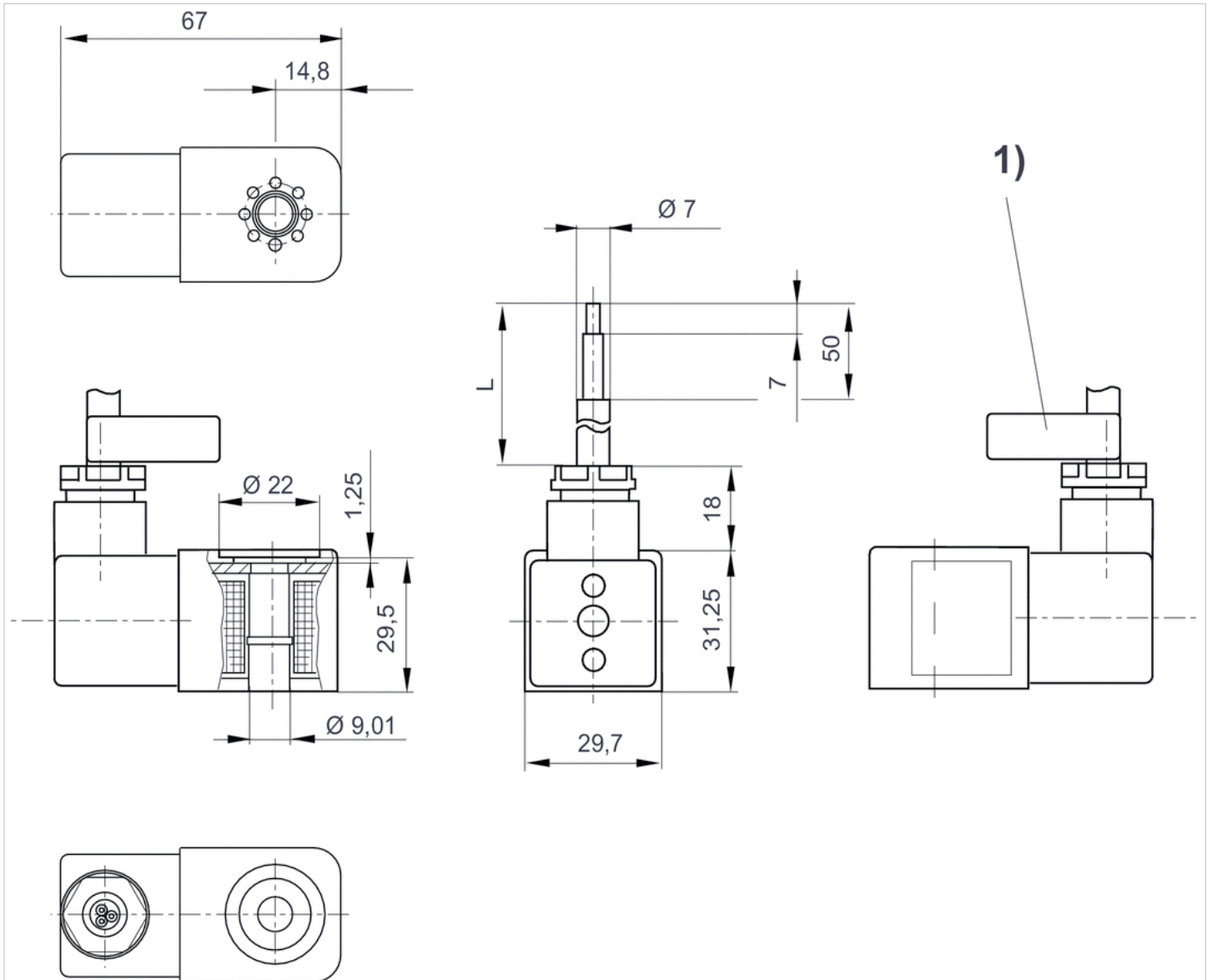
Part No.	Switch-on power	Weight
	AC 50 Hz	
1827414297	3.1 VA	0.838 lbs
1827414298	3.1 VA	2.01 lbs
1827414299	3 VA	0.838 lbs
1827414303	-	0.838 lbs



Part No.	Switch-on power	Weight
	AC 50 Hz	
1827414304	-	2.01 lbs

## Dimensions

### Dimensions

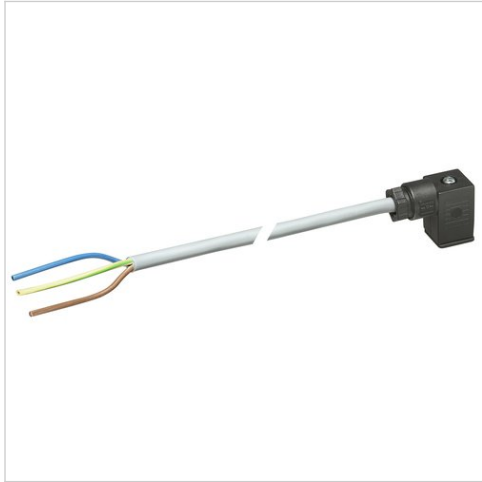


L = cable length

1) Cable ID band with serial number

# Valve plug connector, series CON-VP

- Socket, form C, 2+E, angled, 90°
- open cable ends, 3-pin
- with cable
- unshielded



Ambient temperature min./max.	-4 ... 176 °F
Operational voltage	See table below
Protection class	IP67
Mounting screw tightening torque	0.3 ft./lbs.
Weight	See table below

## Technical data

Part No.		Operational voltage	Max. current	Protective circuit	Contact assignment
1834484213		230 V, AC/DC	6 A	-	2+E
1834484215		230 V, AC/DC	6 A	-	2+E
1834484205		24 V, AC/DC	6 A	Z-diode	2+E
1834484207		24 V, AC/DC	6 A	Z-diode	2+E
1834484209		230 V, AC/DC	6 A	Varistor	2+E
1834484211		230 V, AC/DC	6 A	Varistor	2+E
1834484236		24 V, AC/DC	6 A	Z-diode	2+E

Part No.	LED status display	Number of wires	Cable length	Weight	Fig.	
1834484213	-	3	9.84 ft.	0.403 lbs	Fig. 2	-
1834484215	-	3	16.4 ft.	0.679 lbs	Fig. 2	-
1834484205	Yellow	3	9.84 ft.	0.408 lbs	Fig. 2	1)
1834484207	Yellow	3	16.4 ft.	0.657 lbs	Fig. 2	1)
1834484209	Yellow	3	9.84 ft.	0.428 lbs	Fig. 2	1)
1834484211	Yellow	3	16.4 ft.	0.628 lbs	Fig. 2	1)
1834484236	Yellow	3	32.81 ft.	1.26 lbs	Fig. 2	1)

1) Scope of delivery incl. flat gasket

## Technical information

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

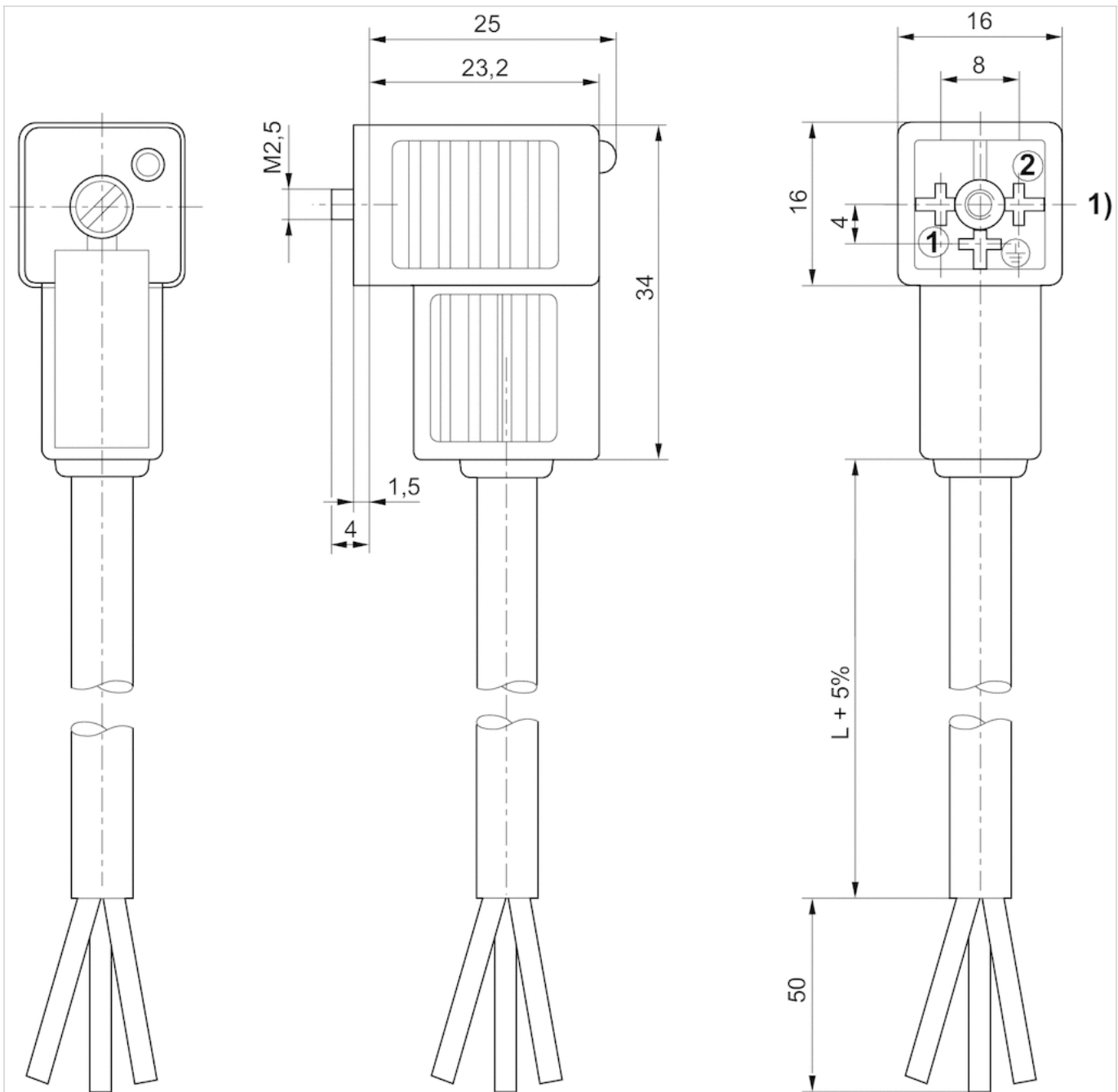
## Technical information

### Material

Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

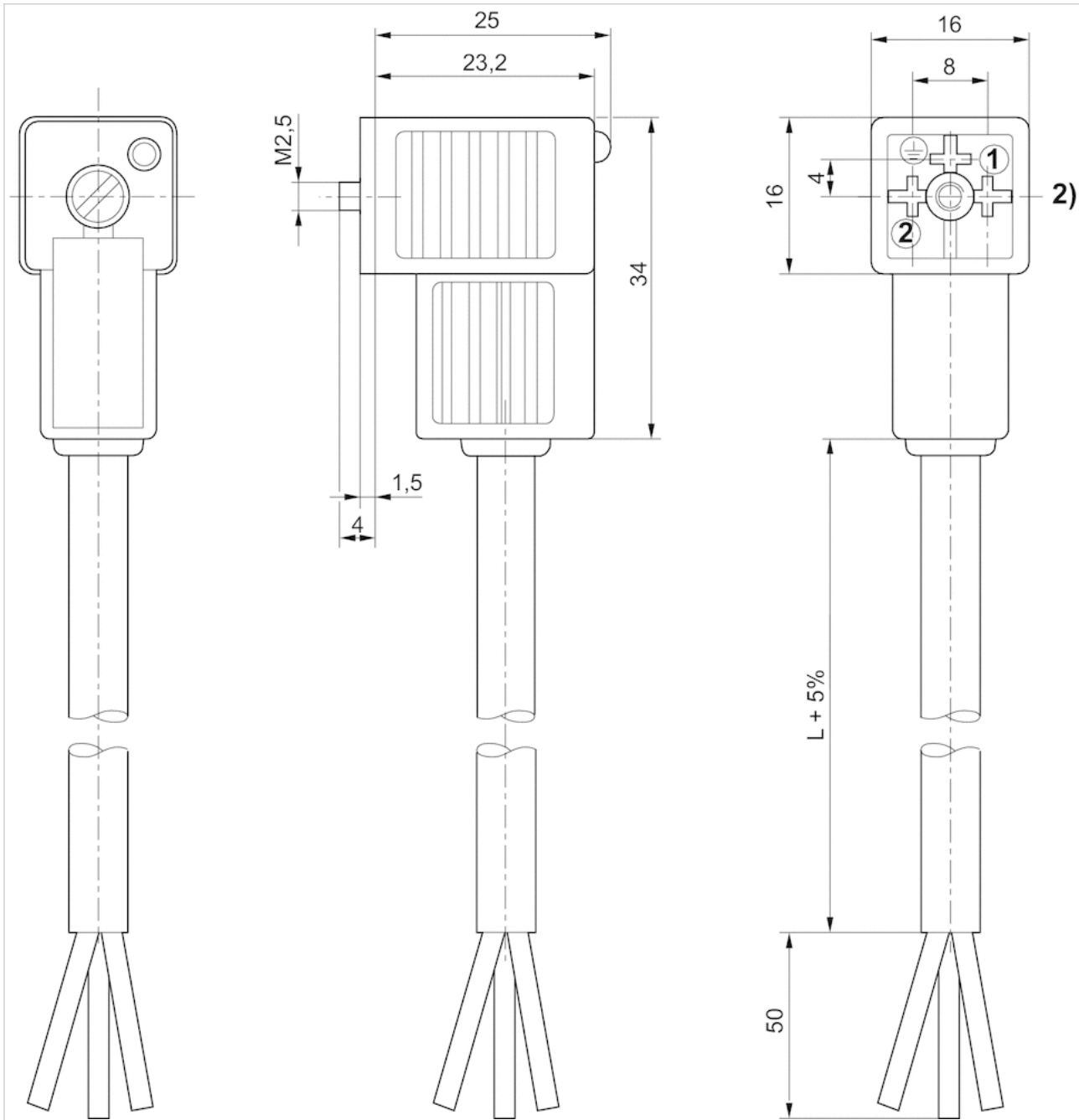
## Dimensions

Fig. 1



1) 0° female insert

Fig. 2



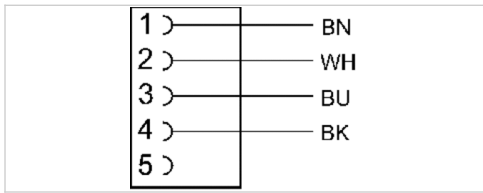
2) 180° female insert

# Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, A-coded, angled, 90°
- open cable ends
- for DeviceNet
- with cable
- unshielded



Ambient temperature min./max.	-40 ... 185 °F
Operational voltage	48 V, AC/DC
Protection class	IP65
Wire cross-section	0 in <sup>2</sup>
Weight	See table below



## Technical data

Part No.	Max. current	Number of wires	Cable length	Weight
1834484259	4 A	4	9.84 ft.	0.286 lbs
1834484260	4 A	4	16.4 ft.	0.445 lbs
1834484261	4 A	4	32.81 ft.	0.853 lbs

## Technical information

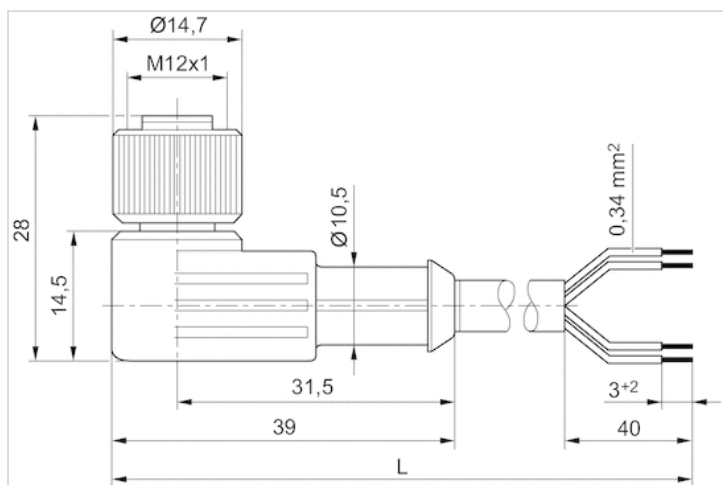
The specified protection class is only valid in assembled and tested state.

## Technical information

Material	
Cable sheath	Polyurethane

## Dimensions

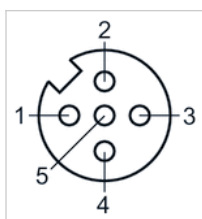
### Dimensions



L = length

## Pin assignments

### Pin assignment socket



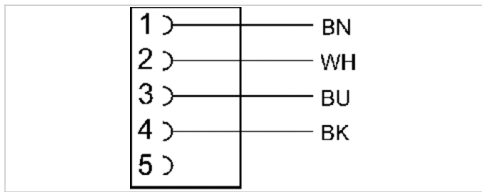
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) not assigned

# Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, A-coded, straight, 180°
- open cable ends
- with cable
- unshielded



Ambient temperature min./max.	-13 ... 158 °F
Operational voltage	48 V, AC/DC
Protection class	IP67
Wire cross-section	0 in²
Weight	See table below



## Technical data

Part No.	Max. current	Number of wires	Cable length	Weight
1834484256	4 A	4	9.84 ft.	0.289 lbs
1834484257	4 A	4	16.4 ft.	0.443 lbs
1834484258	4 A	4	32.81 ft.	0.877 lbs

## Technical information

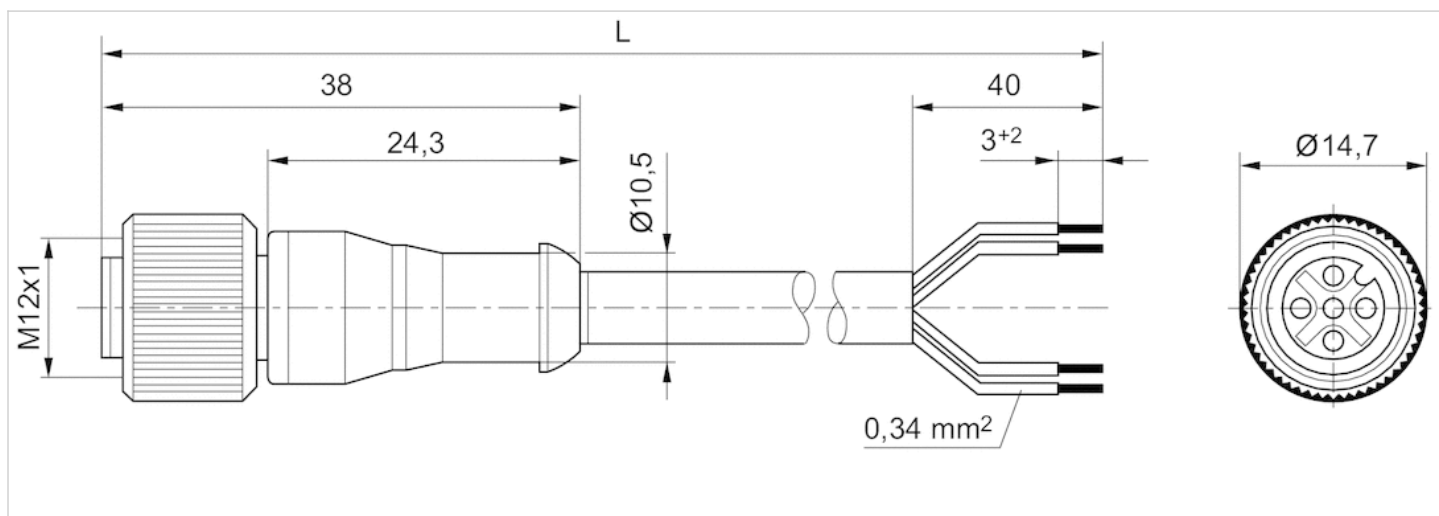
The specified protection class is only valid in assembled and tested state.

## Technical information

Material	
Cable sheath	Polyurethane

## Dimensions

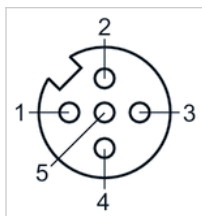
### Dimensions



L = length

## Pin assignments

### Pin assignment socket



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

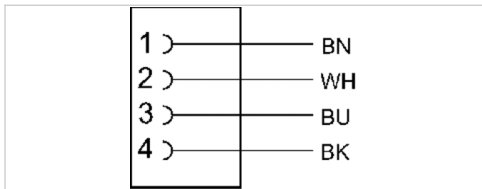


# Round plug connector, Series CON-RD

- Socket, M12x1, 4-pin, A-coded, straight, 180°
- UL (Underwriters Laboratories)
- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 185 °F
Operational voltage	48 V, AC/DC
Protection class	IP67
Weight	0.029 lbs



## Technical data

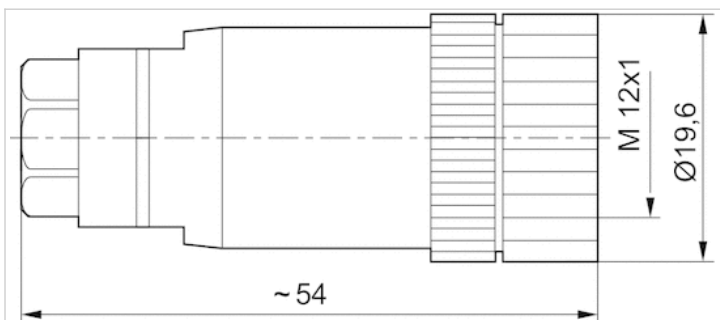
Part No.	Max. current
1834484177	4 A

## Technical information

Material	
Housing	Polyamide

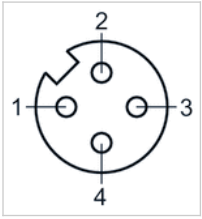
## Dimensions

### Dimensions



## Pin assignments

### Pin assignment socket



# Round plug connector, Series CON-RD

- Socket, M12x1, 4-pin, A-coded, angled, 90°

- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 185 °F
Operational voltage	48 V, AC/DC
Protection class	IP67
Weight	0.035 lbs

## Technical data

Part No.	Max. current	suitable cable-Ø min./max
1834484178	4 A	0.16 inch

## Technical information

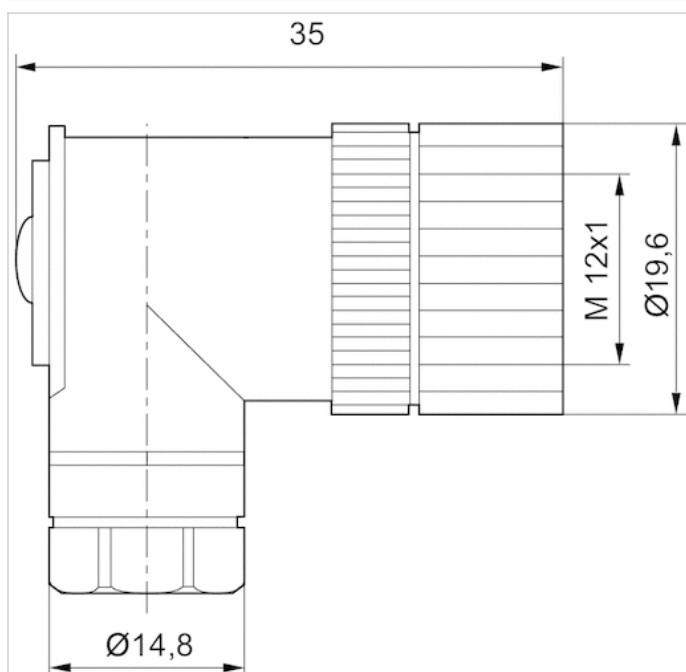
The specified protection class is only valid in assembled and tested state.

## Technical information

Material	
Housing	Polyamide

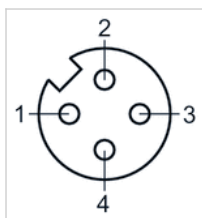
## Dimensions

### Dimensions



## Pin assignments

### Pin assignment socket

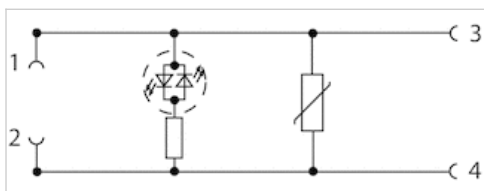


# Adapter, Series CON-VP

- Socket, form C, 2+E, angled, 90°
- Plug, M12x1, 3-pin, A-coded, straight, 180°
- unshielded
- with LED Yellow



Ambient temperature min./max.	14 ... 212 °F
Operational voltage	24 V, DC
Protection class	IP65
Protective circuit	Varistor
Mounting screw tightening torque	0.44 ft./lbs.



## Technical data

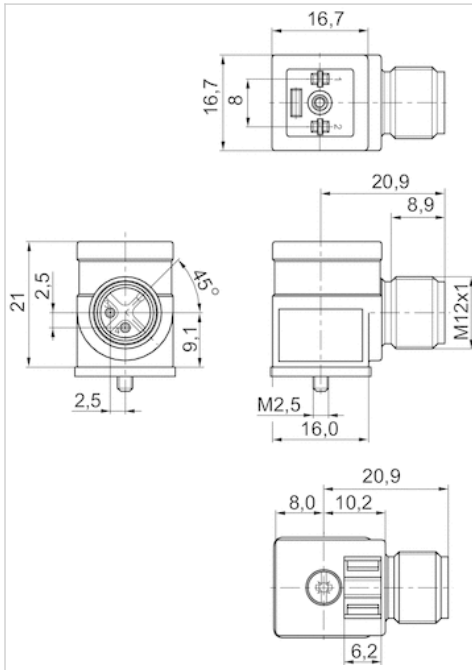
Part No.	Max. current	Protective circuit	Contact assignment	LED status display
R412009553	1 A	Varistor	2+E	Yellow

## Technical information

Material	
Housing	Polyurethane

## Dimensions

### Dimensions



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



Weight

0.055 lbs

## Technical data

Part No.

R412006360

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

## Technical information

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

## Technical information

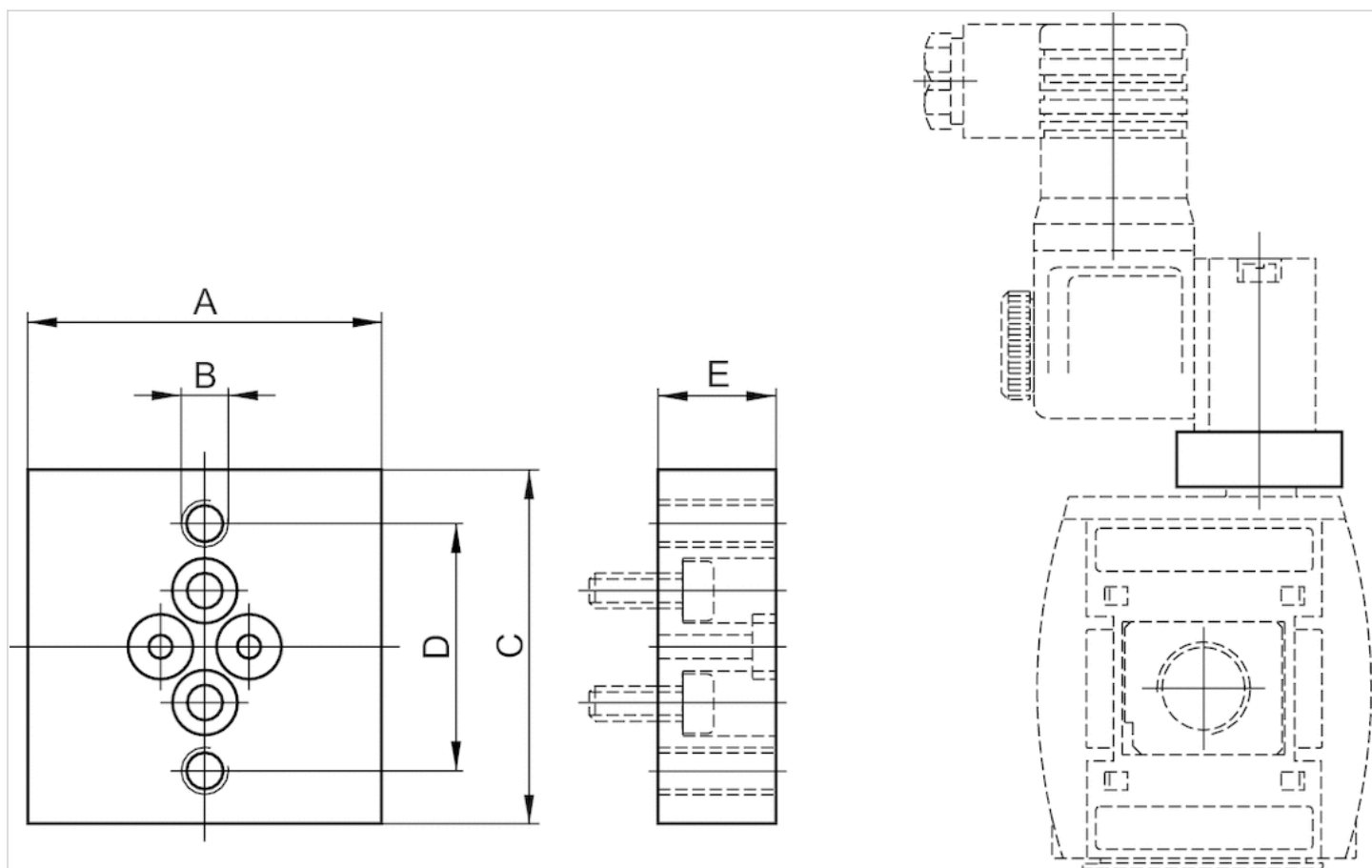
Material

Material

Aluminum

## Dimensions

### Dimensions



## Dimensions

Part No.	A	B	C	D	E
R412006360	30	M4	30	21	10



# Adapter

- For connection of pneumatic actuation, G 1/8
- G 1/8
- AS1, AS2, AS3, AS5



Weight

0.042 lbs

## Technical data

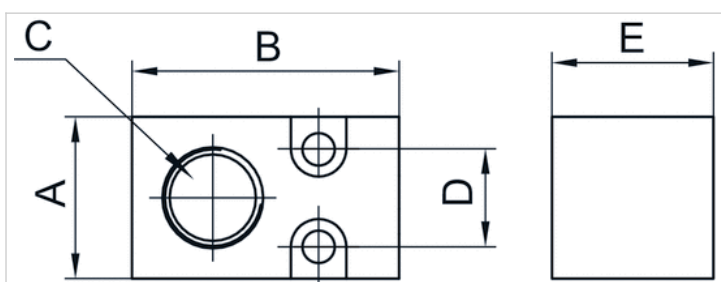
Part No.	Port G
R412006359	G 1/8

Delivery incl. 2 mounting screws M3x20, Flat gasket

## Technical information

Material	
Material	Aluminum

## Dimensions



## Dimensions

Part No.	A	B	C	D	E
R412006359	16	26,5	G 1/8	9.7	16

# Adapter for external pilot air



## Technical data

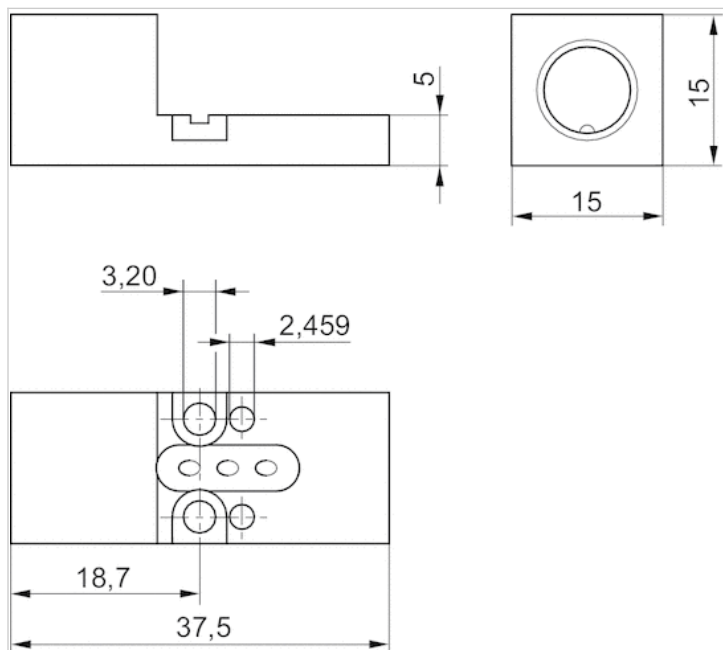
Part No.

R412025904

Delivery incl. 1 seal plate, 1 screw 3x10, 1 screw DIN 84-M3x18

## Dimensions

### Dimensions



# Mounting aid

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



## Technical data

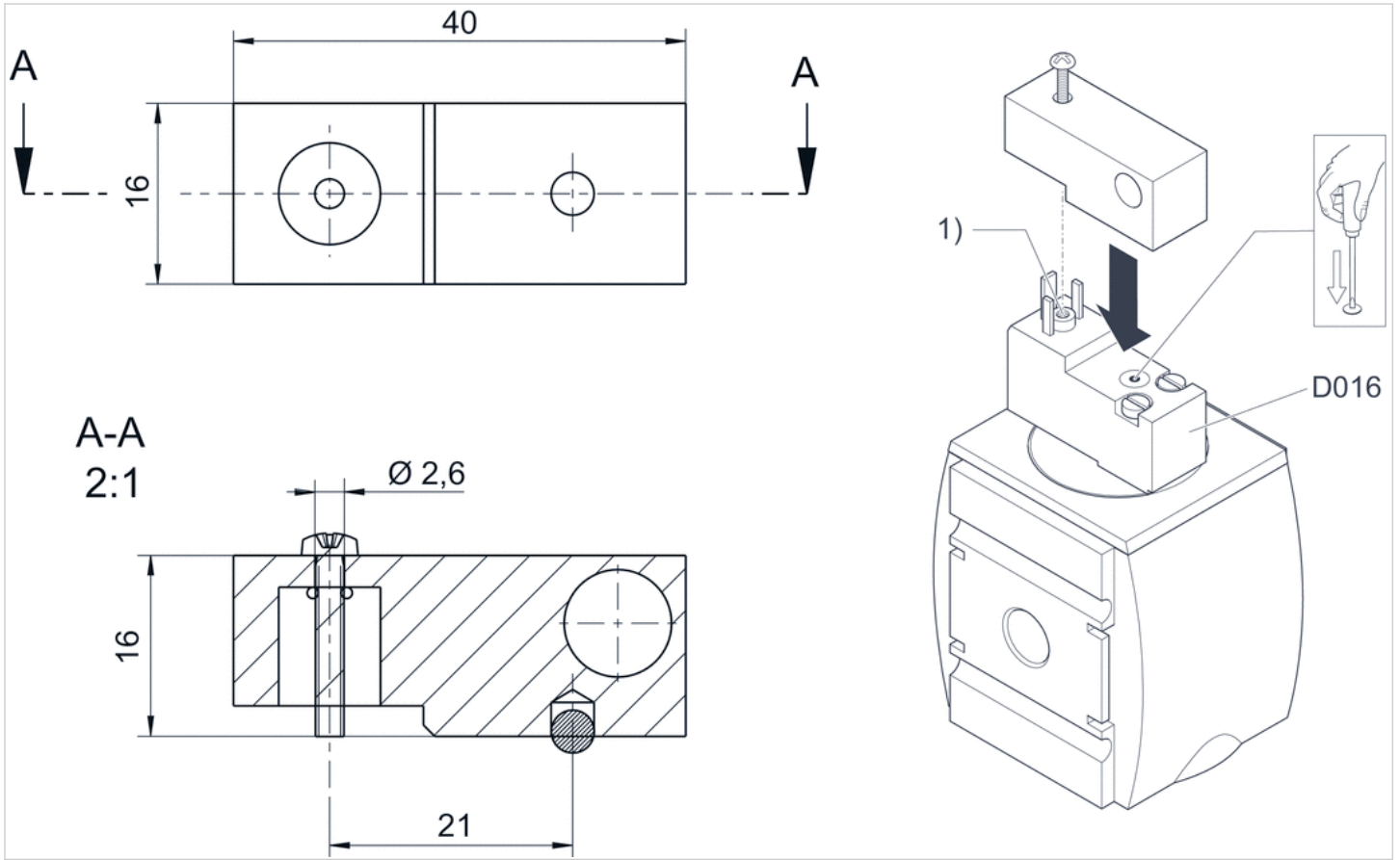
Part No.
R412019278

Scope of delivery incl. 1 mounting screw, 1 O-ring

## Technical information

Material	
Housing	Aluminum

# Dimensions



1) ISO 15217, form C

# Mounting aid

- Assembly aid for permanent actuation of manual override ("press") on pilot valve DO16 with electrical connection M12x1.



Weight

0.051 lbs

## Technical data

Part No.

R412015193

## Technical information

Mounting the assembly aid to the pilot valve using valve plug connector M12x1

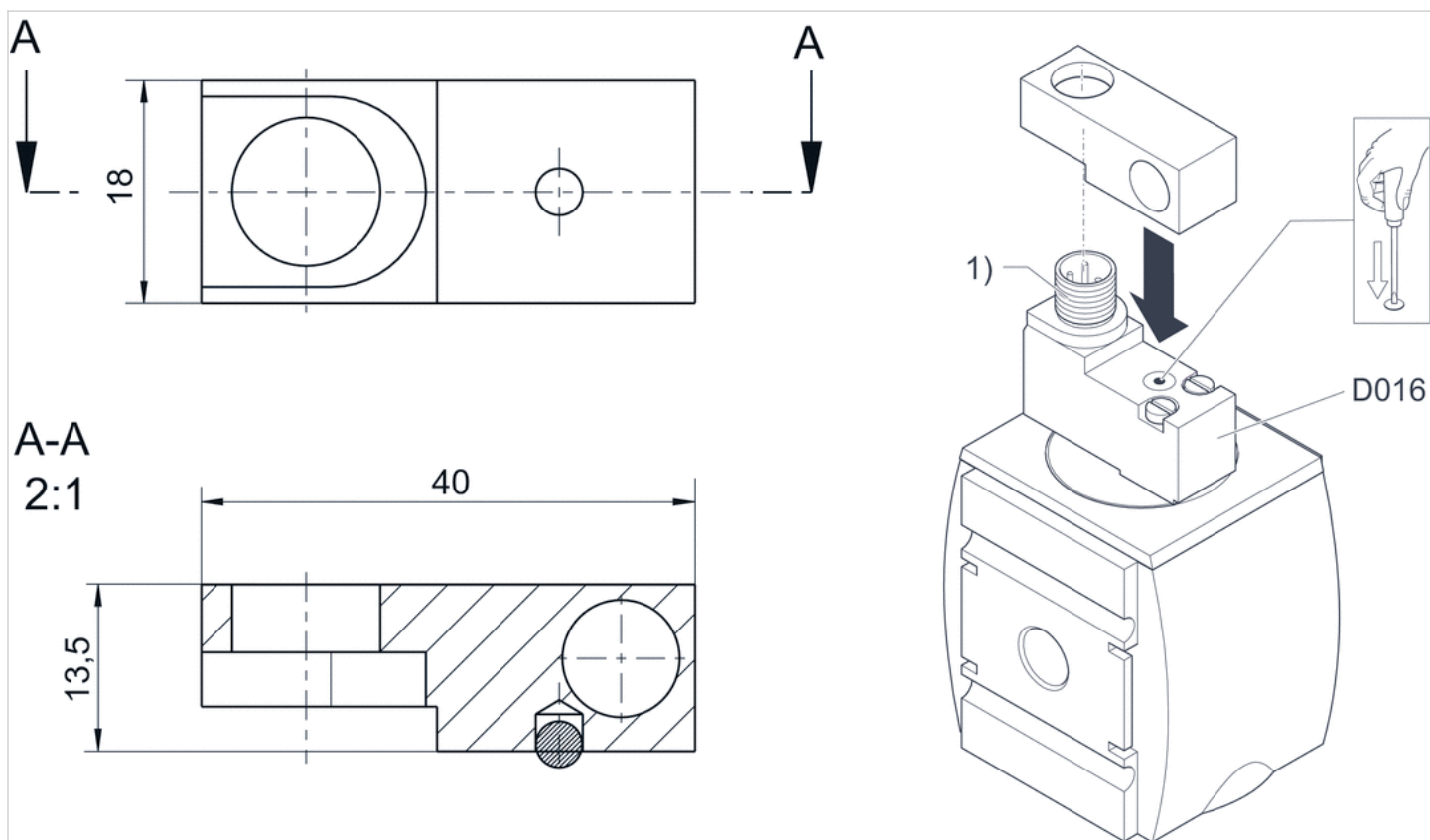
## Technical information

Material

Housing

Aluminum

## Dimensions



1) M12x1

# mortise lock

- for AS2, AS3, AS5



## Technical data

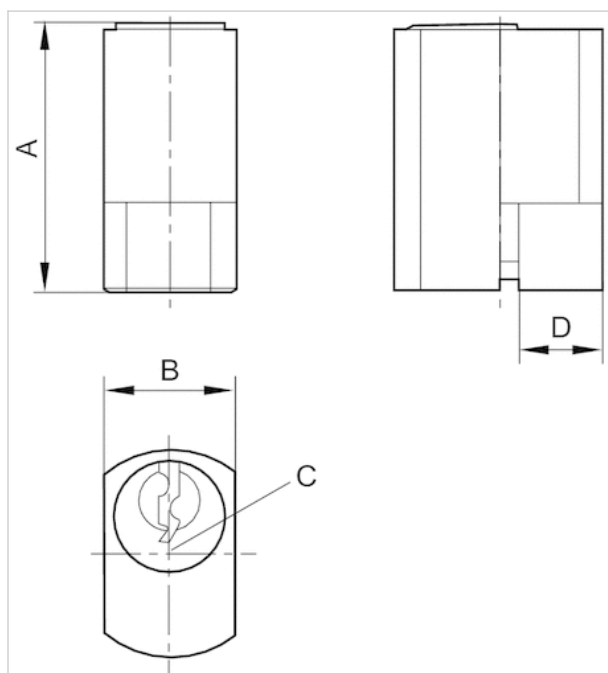
Part No.	Type
R412007959	Standard locking, with key
R412006374	E11 locking, without key

## Technical information

Material	
Housing	Steel

## Dimensions

### Dimensions

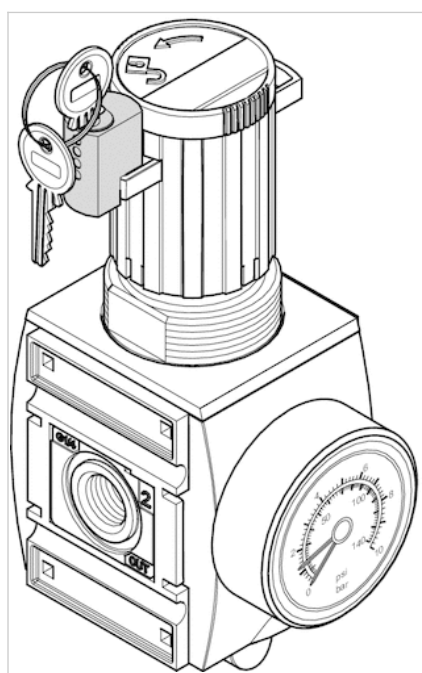


## Dimensions

Part No.	A	B	C	D	E
R412007959	25	13	R10	Ø8	20
R412006374	25	13	R10	Ø8	20

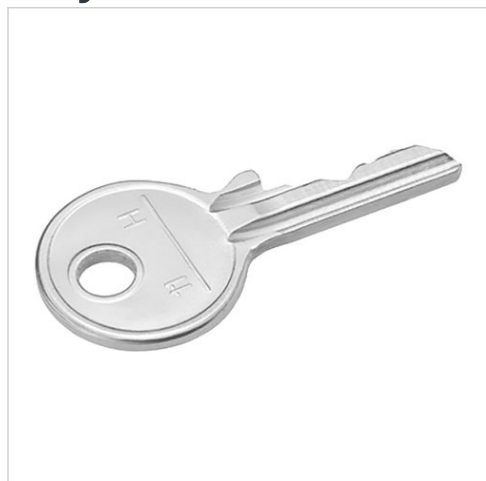
## Dimensions

### Application example





# Key for E11 locking

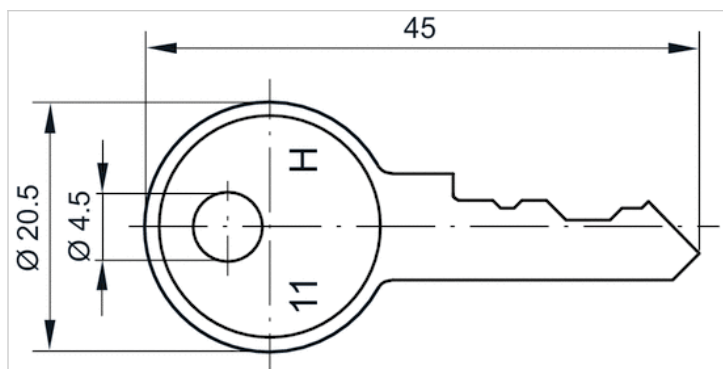


## Technical data

Part No.	Delivery unit
R961403407	1 piece

## Dimensions

### Dimensions
















# Pressure sensor, Series PE5

- Operating pressure -14.5 ... 0, -14.5 ... 14, 0 ... 87, 0 ... 145, 0 ... 174 psi
- electronic
- Output signal analog 4 ... 20 mA
- Output signal digital 2 outputs, 1 output
- IO-Link
- Electr. connection Plug, M12x1, 4-pin
- Compressed air connection Internal thread, G 1/4



Type	electronic
Certificates	CE declaration of conformity, cULus, RoHS, Conforms with REACH, Free of substances that impair surface wetting in the coating process
Compressed air connection	Internal thread, G 1/4
Ambient temperature min./max.	32 ... 140 °F
Medium temperature min./max.	32 ... 140 °F
Medium	Compressed air (max. 40 µm)
Max. oil content of compressed air	40 mg/m <sup>3</sup>
Measurement	Relative pressure
Display	LCD display, 4 digits, Color setting: green or red
Units displayed	bar, psi, kPa, MPa, inHg
Switching logic	NO/NC (adjustable)
Shock resistance max.	30 g
Vibration resistance	5 g (10 - 150 Hz)
Precision (% of full scale value)	±1.5% in temperature range of 10 - 30°C, ± 2 % including temperature drift
Repeatability (% of full scale value)	± 0,2 %
Switching time	5 ms
Switching point	adjustable 0 ... 100%
Resetting point	adjustable 0 ... 100%
Hysteresis	adjustable
Delayed hysteresis	adjustable
Window function	adjustable
DC operating voltage,min./max.	17 ... 30 V DC
Analog output	0 - 10 V DC, 4 - 20 mA
Quiescent current consumption	40 mA
Analog output linearity	± 0.5% of the final value
Maximum load (analog current output)	600 Ω
Short circuit resistance	Max. 600 ohms (current output), Min. 3K ohms (voltage output)
Mounting types	Directly on hat rail and wall mounting, For panel installation using mounting kit, via double nipple
Protection class	IP65, IP67 with connections assembled
Electr. connection	Plug, M12x1, 4-pin
Weight	0.088 lbs

## Technical data

Part No.		Operating pressure range	Protection against overpressure
		min./max.	
R412010761		-14.5 ... 0 psi	72.5 psi
R412010769		-14.5 ... 0 psi	72.5 psi
R412010775		-14.5 ... 0 psi	72.5 psi
R412010763		-14.5 ... 14 psi	72.5 psi
R412010771		0 ... 87 psi	217.5 psi
R412010765		0 ... 87 psi	217.5 psi
R412010777		0 ... 87 psi	217.5 psi
R412010773		0 ... 145 psi	217.5 psi
R412010767		0 ... 145 psi	217.5 psi
R412010779		0 ... 145 psi	217.5 psi
R412010782		0 ... 174 psi	232 psi
R412010806		0 ... 174 psi	232 psi

Part No.	Output signal	Output signal
	Analog	digital
R412010761	-	2 outputs-PNP, NPN, Push-pull
R412010769	1 output-0 - 10 V DC-4 ... 20 mA	1 output-PNP, NPN, Push-pull
R412010775	-	1 output-PNP, NPN, push-pull, 1x IO-Link
R412010763	-	2 outputs-PNP, NPN, Push-pull
R412010771	1 output-0 - 10 V DC-4 ... 20 mA	1 output-PNP, NPN, Push-pull
R412010765	-	2 outputs-PNP, NPN, Push-pull
R412010777	-	1 output-PNP, NPN, push-pull, 1x IO-Link
R412010773	1 output-0 - 10 V DC-4 ... 20 mA	1 output-PNP, NPN, Push-pull
R412010767	-	2 outputs-PNP, NPN, Push-pull
R412010779	-	1 output-PNP, NPN, push-pull, 1x IO-Link
R412010782	-	2 outputs-PNP, NPN, Push-pull
R412010806	-	1 output-PNP, NPN, push-pull, 1x IO-Link

Part No.	Fig.
R412010761	Fig. 1
R412010769	Fig. 1
R412010775	Fig. 1
R412010763	Fig. 1
R412010771	Fig. 1
R412010765	Fig. 1
R412010777	Fig. 1
R412010773	Fig. 1
R412010767	Fig. 1
R412010779	Fig. 1
R412010782	Fig. 1
R412010806	Fig. 1

## Technical information

Alternative pressure connection (G1/4) on the rear side (closed with plug)

Display color selectable, red or green

The IO-Link device description (IODD) for the PE5 pressure sensor is available for download in the Media Centre.

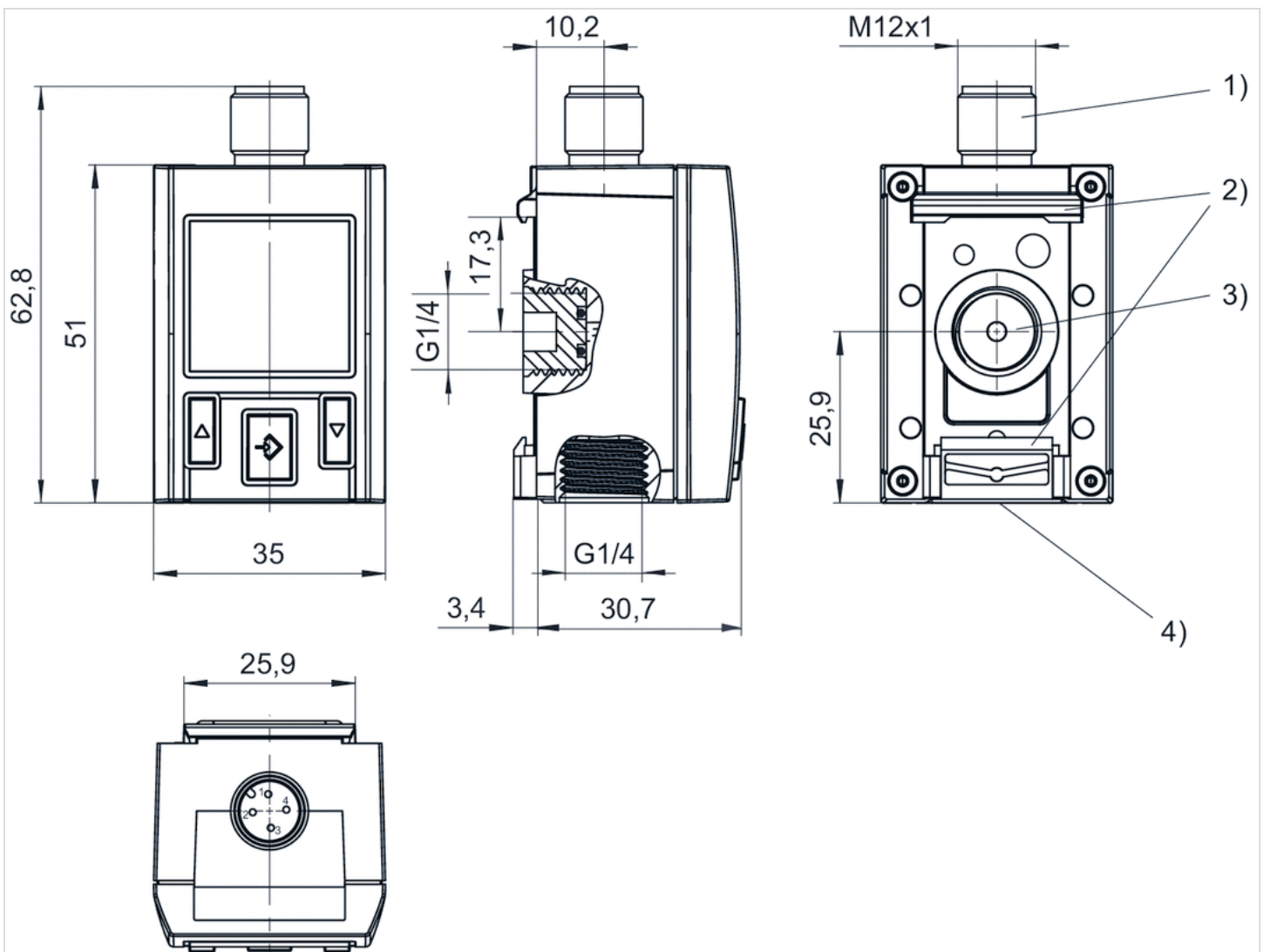
## Technical information

### Material

Housing	Polycarbonate
Seals	Acrylonitrile butadiene rubber
Blanking plug	Polyoxymethylene
Electr. connection	Aluminum, black anodized

## Dimensions

Fig. 1

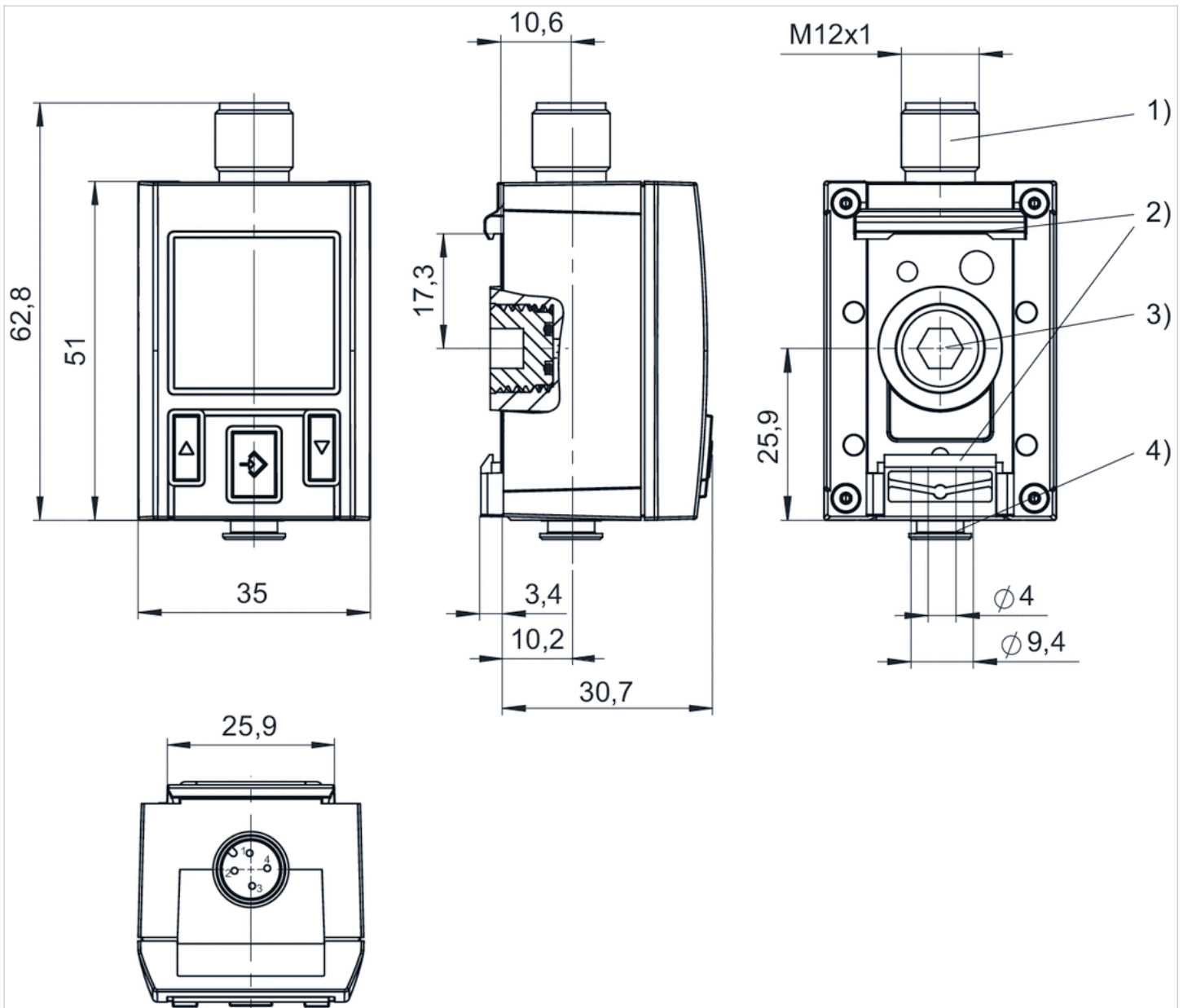


1) M12x1 electrical connection

2) Mounting for hat rail and wall mounting

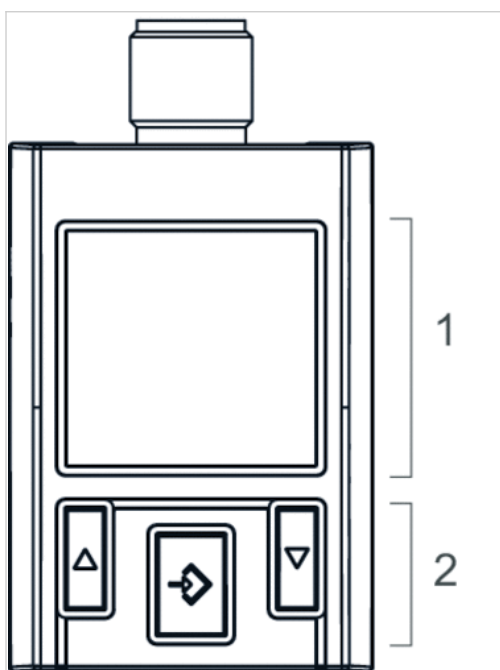
- 3) Alternative pressure connection (G1/4) closed with plug
- 4) Pressure connection G1/4

Fig. 2



- 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

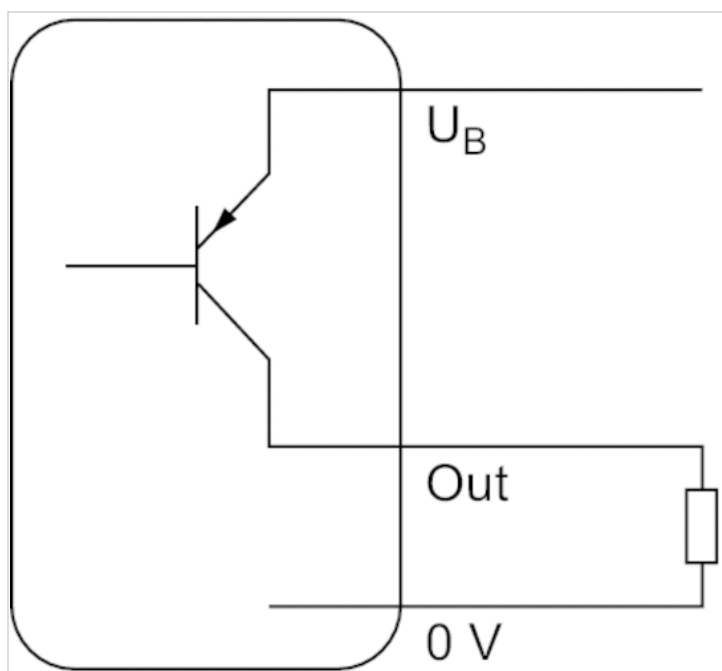
## Display and operation area



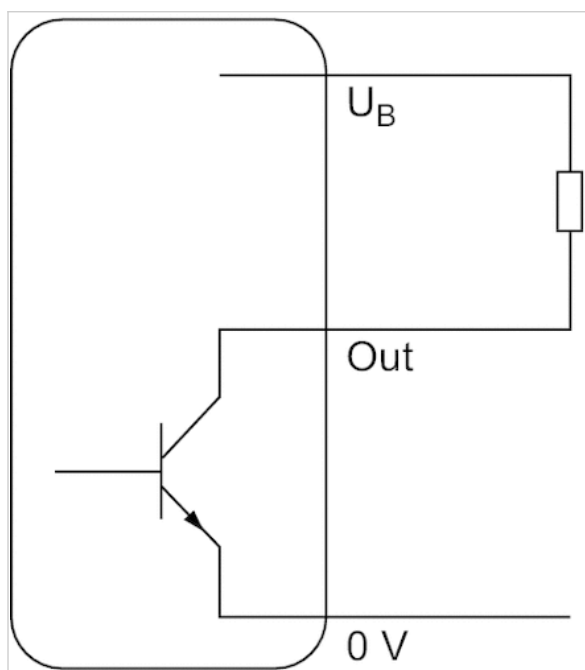
- 1) LCD display
- 2) Control panel with 3 buttons

## Diagrams

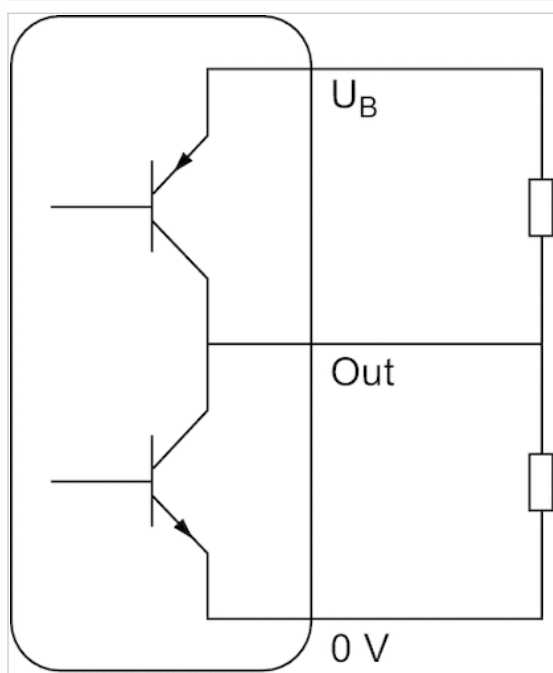
## Operating mode PNP



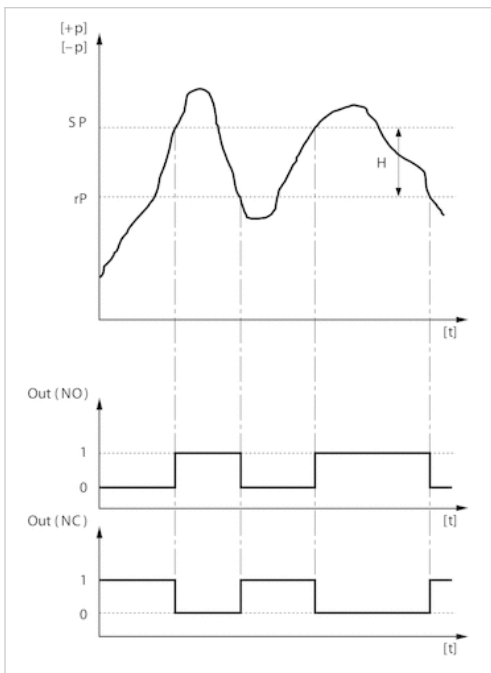
## Operating mode NPN



## Operating mode Push-pull

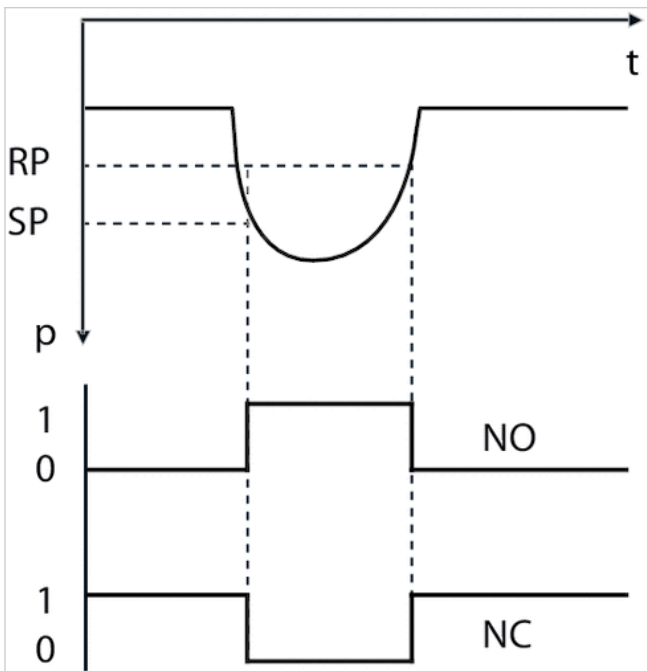


Hysteresis function: switching and resetting behavior dependent on pressure p and time t In case



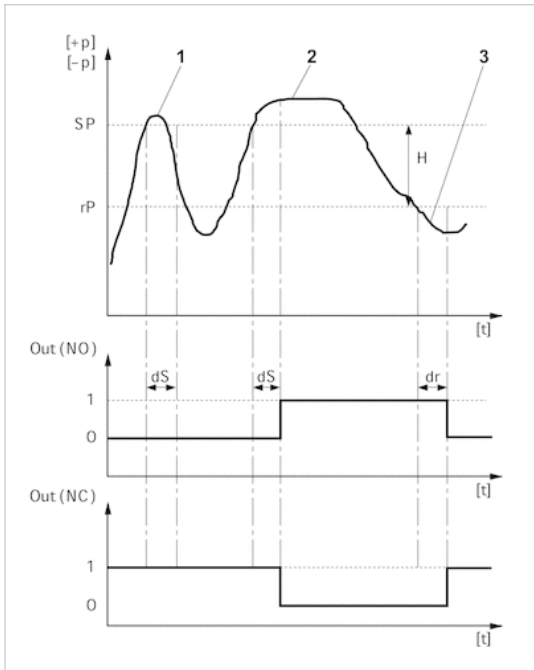
H: Hysteresis  
 SP = switching point  
 RP = resetting point  
 Out (NC): switch output, break contact  
 Out (NO): switch output, make contact

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



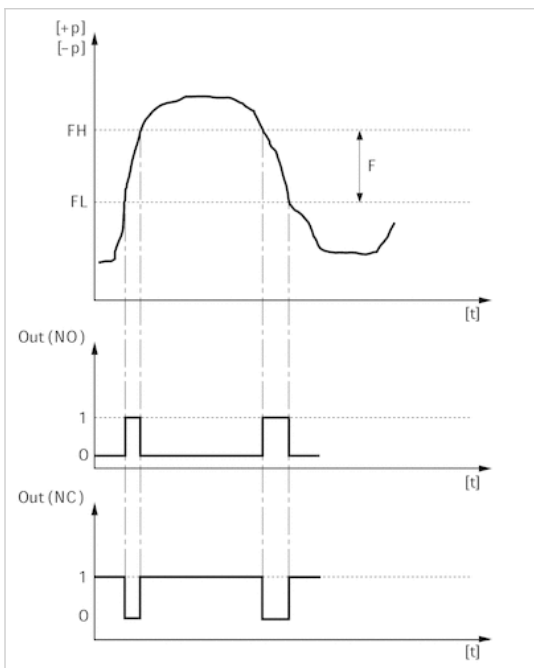


Delayed hysteresis function: switching and resetting behavior depending on pressure p and time



- 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

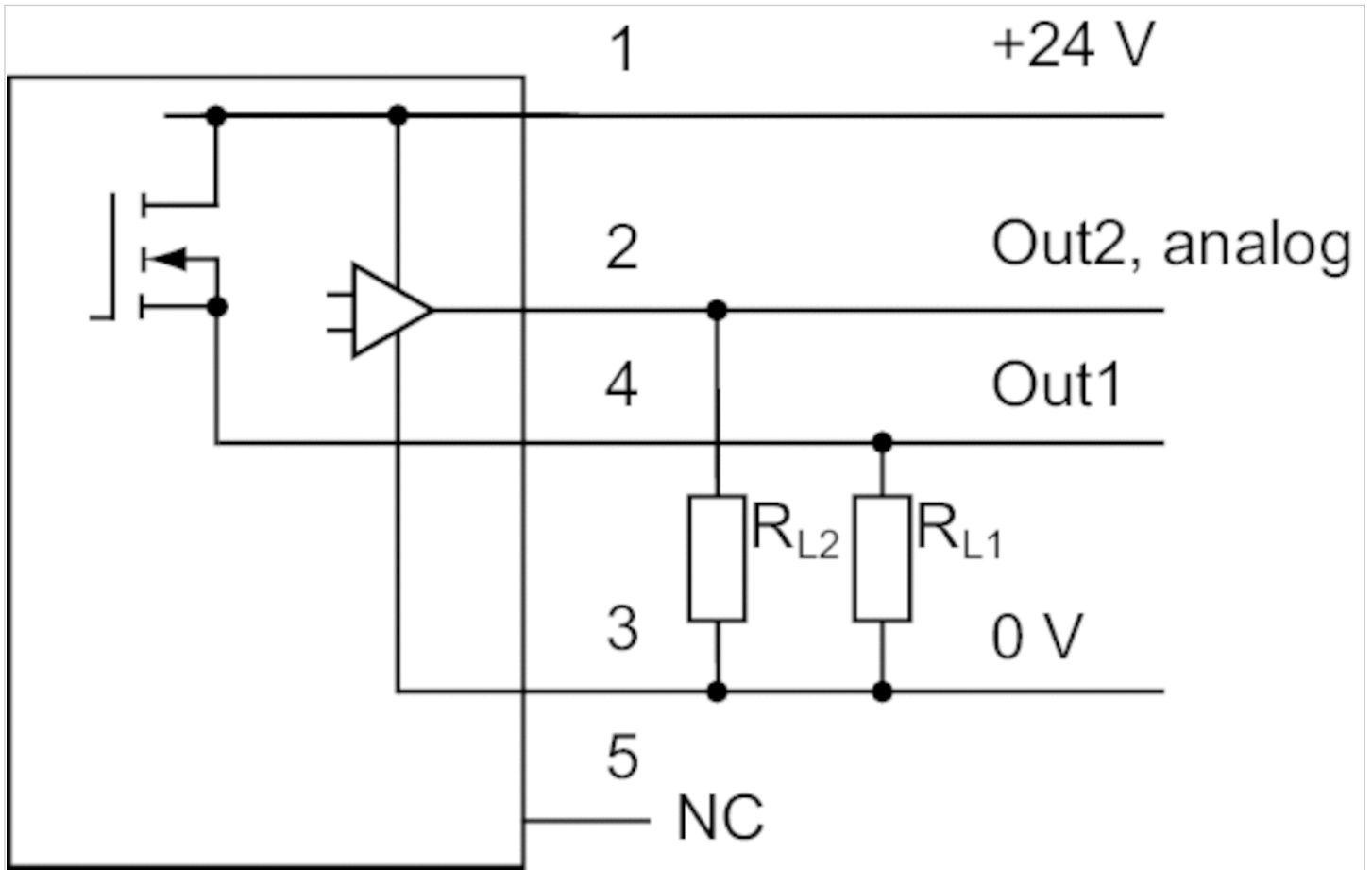


- FH: pressure band, upper value
- FL: pressure band, lower value
- Out (NC): switch output, break contact

Out (NO): switch output, make contact

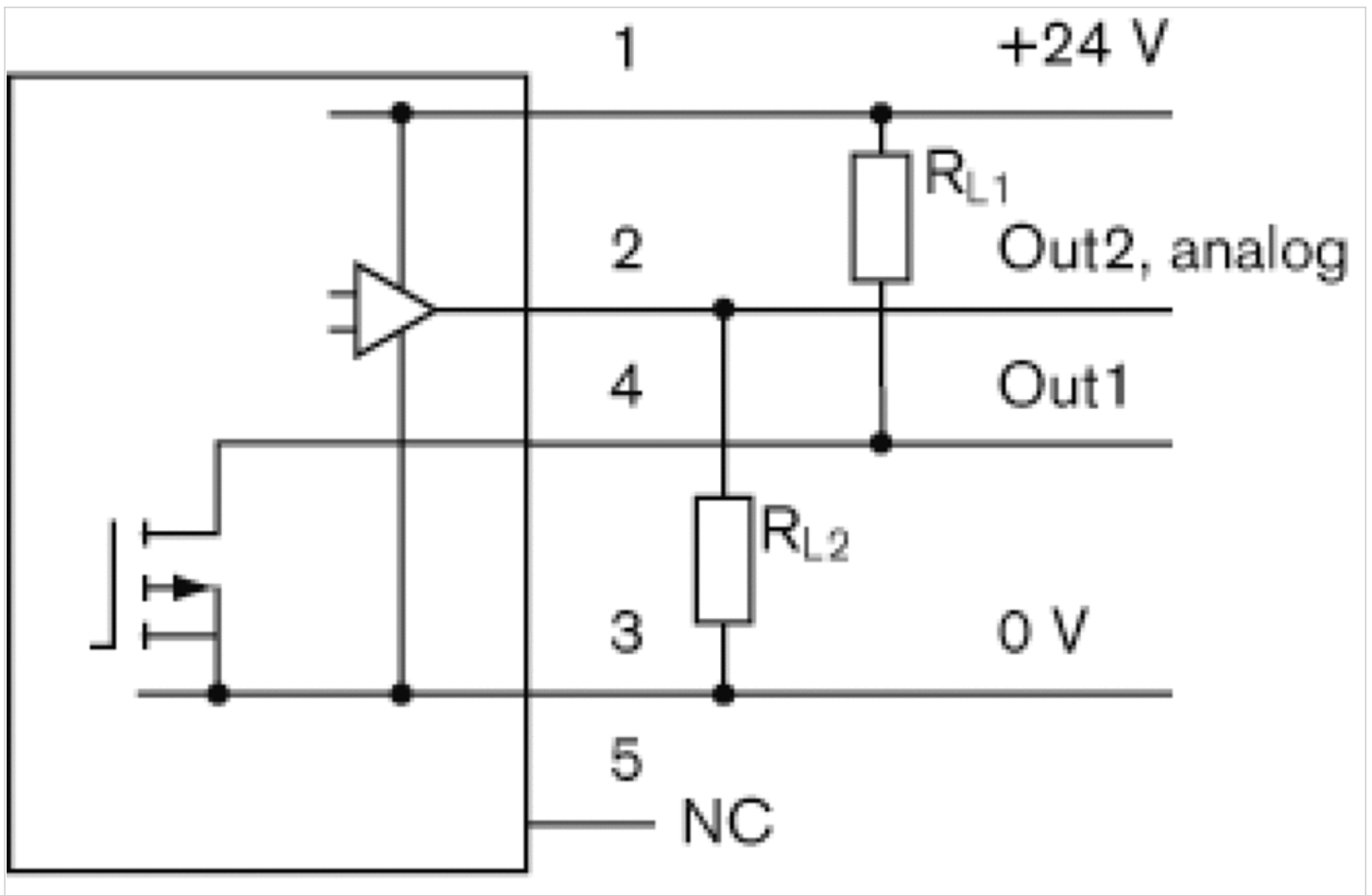
### Circuit diagram

### Block diagram 1x PNP and 1x analog



RL = storable position

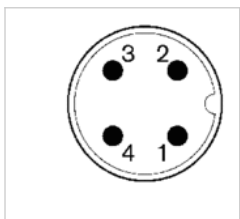
Block diagram 1x NPN and 1x analog



RL = storable position

Pin assignments

Pin assignments M12x1



operational voltage + UB

Pin 2: switch output Out2, analog: A or V, digital: PNP, NPN, push-pull

Pin 3: 0 V

Pin 4: switch output Out1, digital: PNP, NPN, push-pull











# Pressure sensor, Series PE2

- Operating pressure 0 ... 14, 0 ... 232 psi
- electronic
- Output signal analog 4 ... 20 mA
- Output signal digital 1 x PNP, 2 x PNP
- Electr. connection Plug, M12x1, 5-pin
- Compressed air connection Internal thread, G 1/4, Flange with O-ring, Ø 5x1,5



Type	electronic
Function	1 x PNP, 2 x PNP, 1x PNP and 1x analog
Mounting orientation	Any
Certificates	CE declaration of conformity, EMV
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 167 °F
Medium temperature min./max.	14 ... 167 °F
Medium	Compressed air, Neutral gases
Measurement	Relative pressure
Display	OLED
Units displayed	bar, mbar, psi, kPa, MPa, %
Switching logic	Hysteresis function NO/NC (programmable), Window function NO/NC (programmable)
Operating pressure display	2 LED
Shock resistance max.	30 g
Vibration resistance	5 g (10 - 150 Hz)
Precision (% of full scale value)	± 1 % including temperature drift
Switching time	10 ms at loads 100 kΩ, > 10 ms at loads > 100 kΩ
Switching point	Adjustable ≥ 0.5% ... 100% FS
Resetting point	Adjustable 0% FS to SP -0.5% FS (or +0.5% FS when SP 0)
Hysteresis	adjustable
Switching/reset delay	adjustable
DC operating voltage,min./max.	15 ... 32 V DC
Analog output	1 x PNP, 1 x analog 4-20 mA
Quiescent current consumption	50 mA
Maximum load (analog current output)	600 Ω
Short circuit resistance	short circuit resistant
Mounting types	via through holes
Protection class	IP65
Electr. connection	Plug, M12x1, 5-pin
Weight	0.661 lbs

## Technical data

Part No.		Type	Operating pressure range
			min./max.
R412010848		PE2-P1-G014-V10-010-M012	0 ... 14 psi
R412010849		PE2-P1-F001-V10-010-M012	0 ... 14 psi
R412010853		PE2-P2-G014-V10-010-M012	0 ... 14 psi
R412010856		PE2-PA-G014-V10-010-M012	0 ... 14 psi
R412010850		PE2-P1-G014-000-160-M012	0 ... 232 psi
R412010851		PE2-P1-F001-000-160-M012	0 ... 232 psi
R412010854		PE2-P2-G014-000-160-M012	0 ... 232 psi
R412010855		PE2-P2-F001-000-160-M012	0 ... 232 psi
R412010857		PE2-PA-G014-000-160-M012	0 ... 232 psi
R412010858		PE2-PA-F001-000-160-M012	0 ... 232 psi

Part No.	Protection against overpressure	Output signal	Output signal	Compressed air connection
		Analog	digital	
R412010848	145 psi	-	1 x PNP	Internal thread, G 1/4
R412010849	145 psi	-	1 x PNP	Flange with O-ring, Ø 5x1,5
R412010853	145 psi	-	2 x PNP	Internal thread, G 1/4
R412010856	145 psi	4 ... 20 mA	1 x PNP	Internal thread, G 1/4
R412010850	580 psi	-	1 x PNP	Internal thread, G 1/4
R412010851	580 psi	-	1 x PNP	Flange with O-ring, Ø 5x1,5
R412010854	580 psi	-	2 x PNP	Internal thread, G 1/4
R412010855	580 psi	-	2 x PNP	Flange with O-ring, Ø 5x1,5
R412010857	580 psi	4 ... 20 mA	1 x PNP	Internal thread, G 1/4
R412010858	580 psi	4 ... 20 mA	1 x PNP	Flange with O-ring, Ø 5x1,5

Part No.	Fig.
R412010848	Fig. 1
R412010849	Fig. 2
R412010853	Fig. 1
R412010856	Fig. 1
R412010850	Fig. 1
R412010851	Fig. 2
R412010854	Fig. 1
R412010855	Fig. 2
R412010857	Fig. 1
R412010858	Fig. 2

## Technical information

Menu navigation is based on the VDMA specification with an additional plain text menu.

## Technical information

Material	
Housing	Aluminum, Vibration-ground
Seals	Fluorocaoutchouc
Electr. connection	Aluminum with polymer insert
	At the flange connection: Nitrile butadiene rubber and fluororubber

## Dimensions

Fig. 1

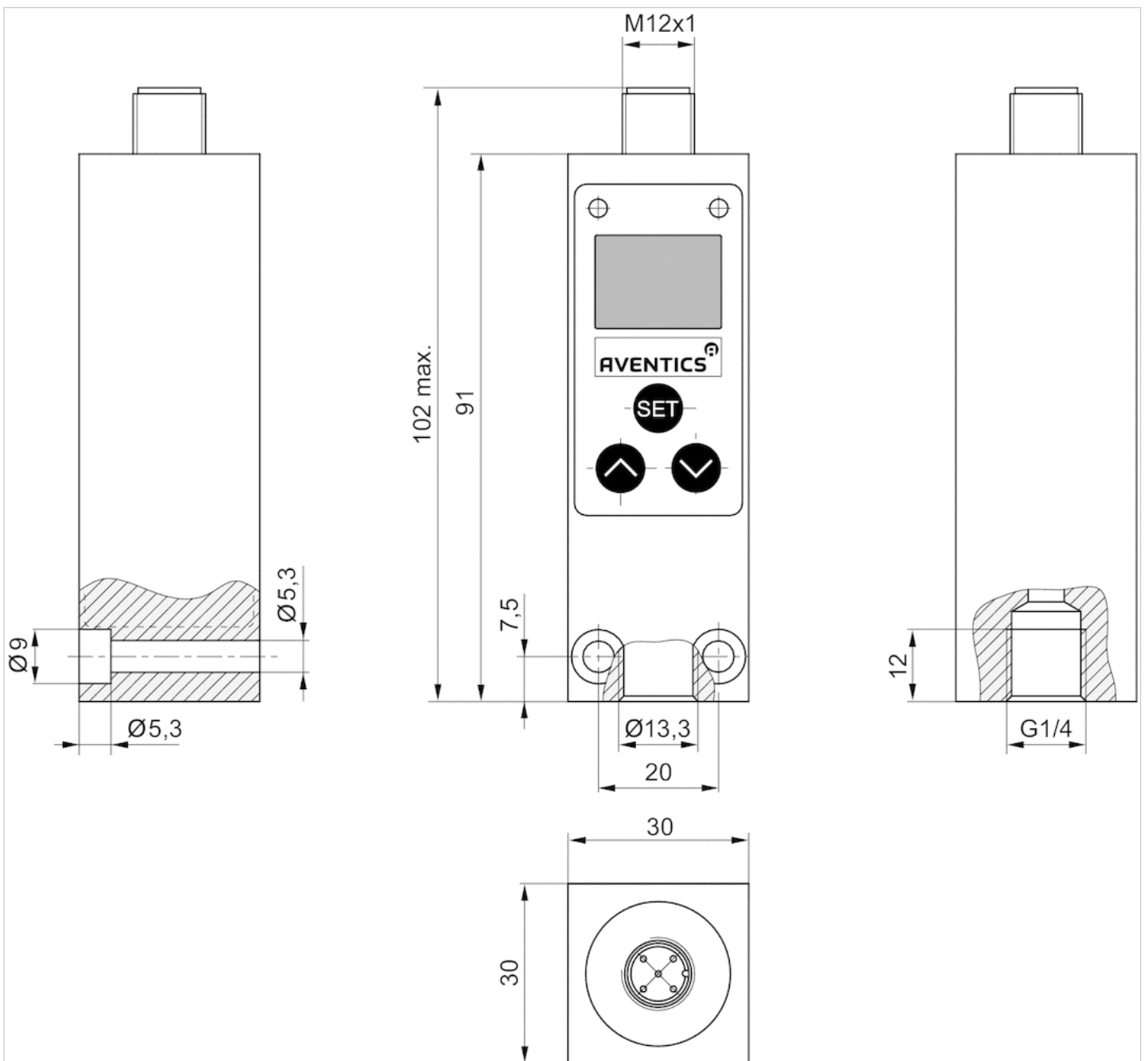
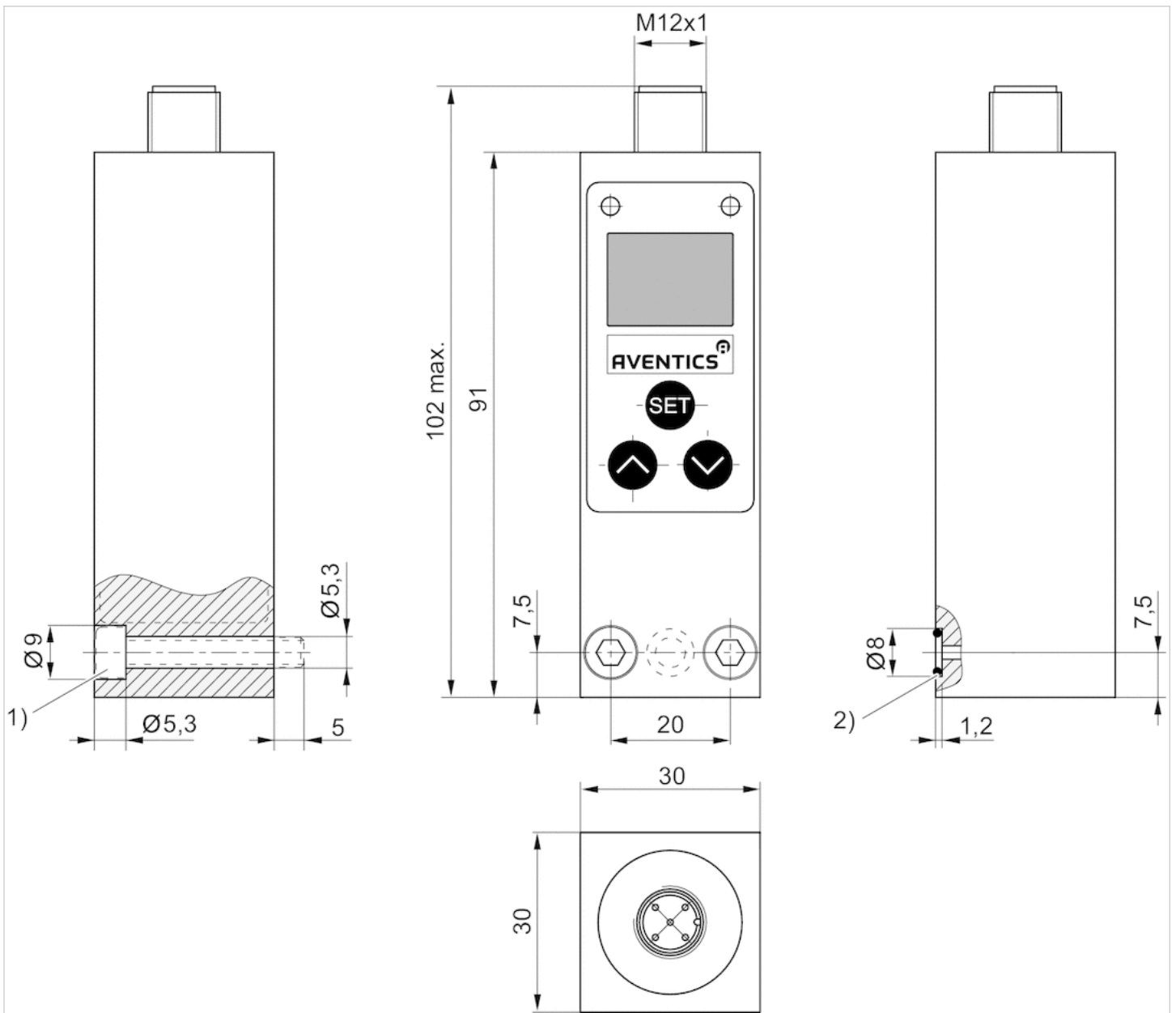
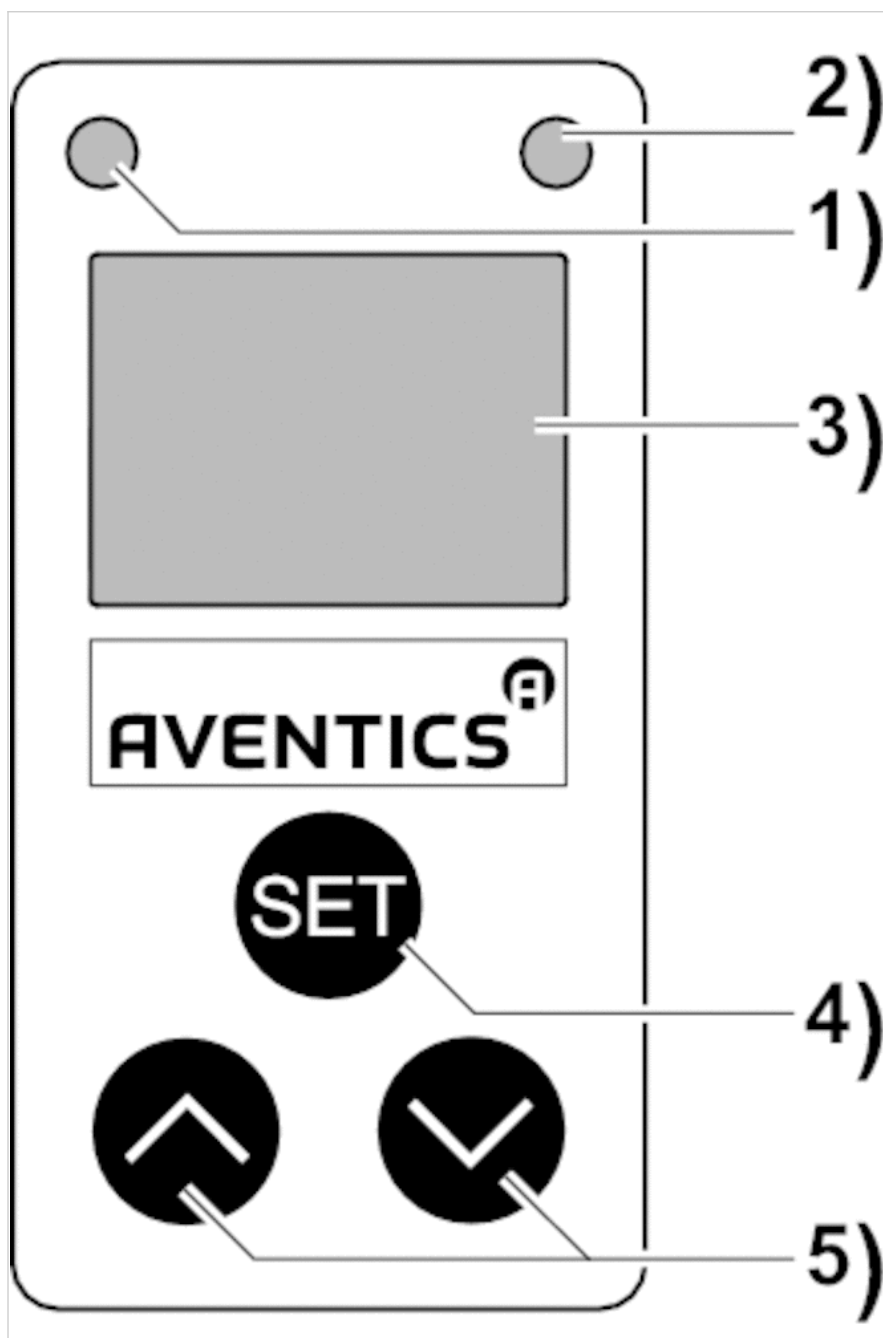


Fig. 2



- 1) cylinder screw M5x35 (included in scope of delivery)
- 2) O-ring  $\varnothing 5 \times 1,5$  (included)

## Display and operation area

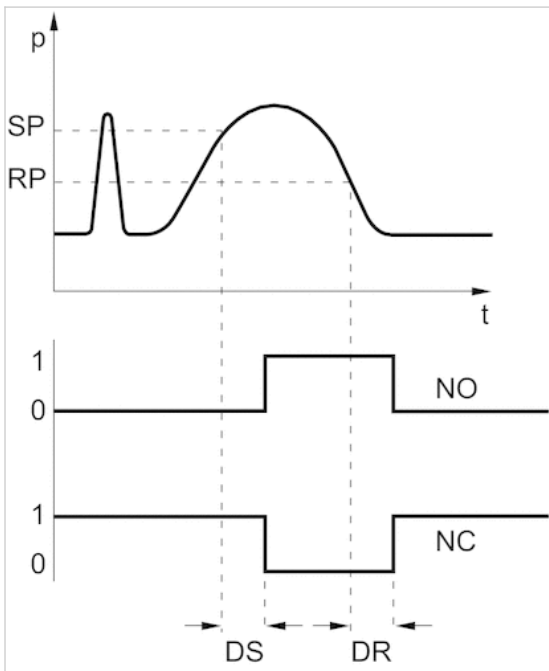


- 1) LED for switch output 1
- 2) LED for switch output 2
- 3) Display (pressure, operating modes, navigation)
- 4) Confirm menu/menu item selection
- 5) Button for menu item/parameter change selection



## Diagrams

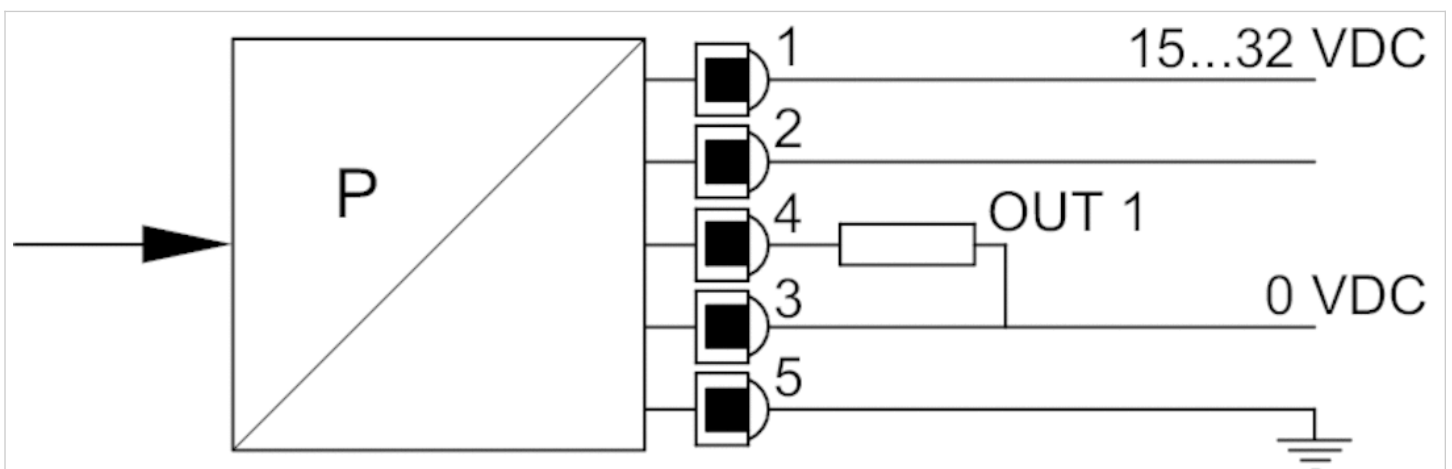
### Pressure-voltage characteristics curve



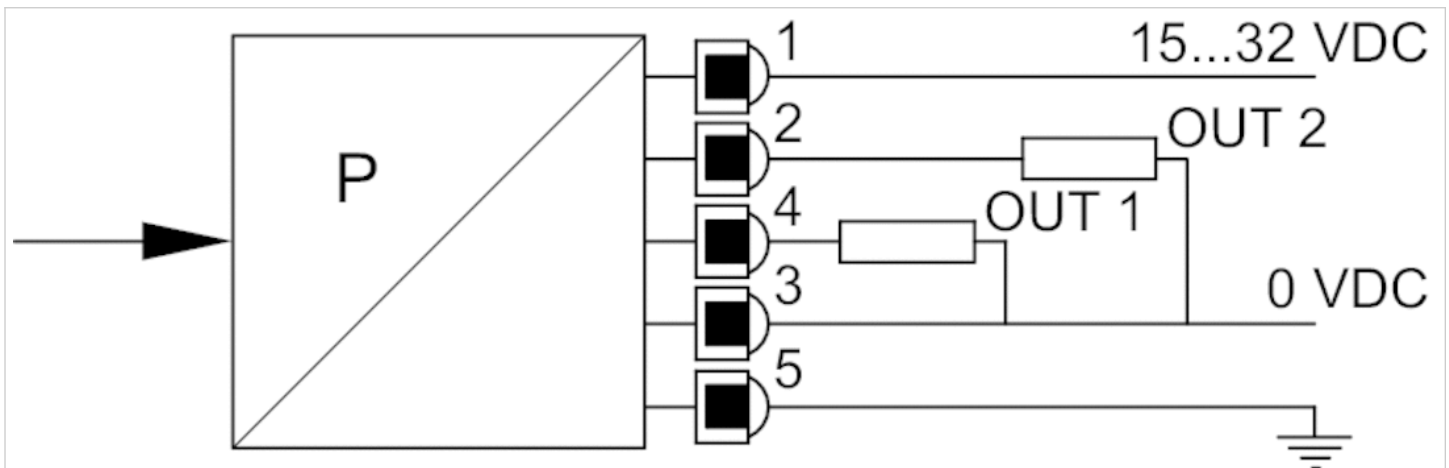
- SP = switching point
- RP = resetting point
- NO = Switching function open
- NC = Switching function closed without current
- DS = Delay for the switching point
- DR = Delay for the resetting point

## Circuit diagram

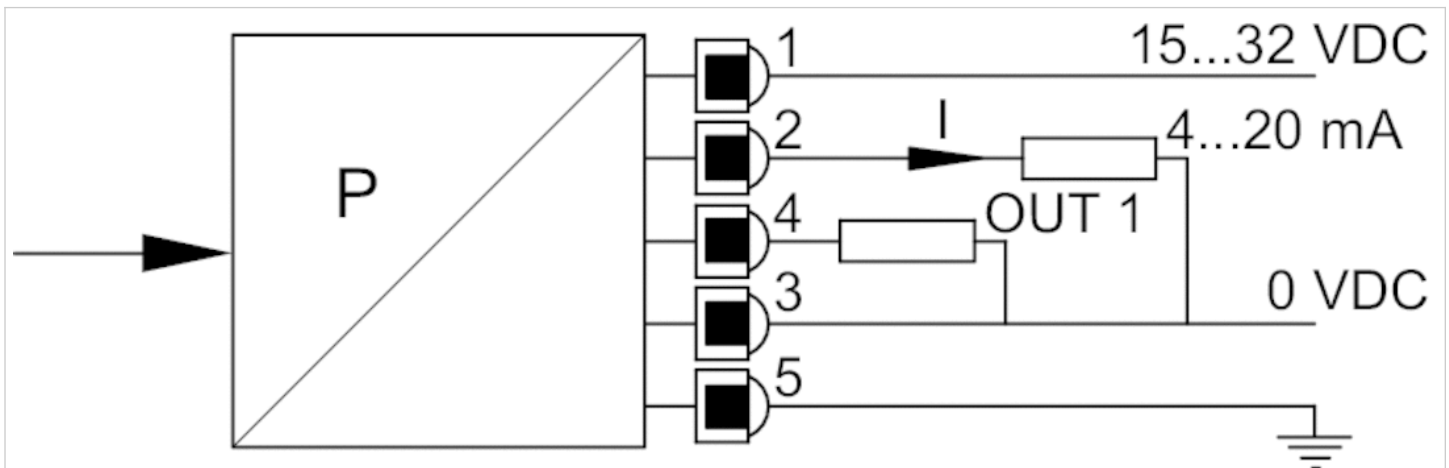
### Block diagram 1 x PNP



Block diagram 2 x PNP

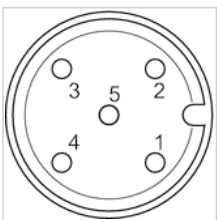


Block diagram 1x PNP and 1x analog



Pin assignments

Pin assignments



pin 1: signal + UB, color: brown pin 2: signal: out 2 (PNP)/analog 4 - 20 mA, color: white pin 3: signal: 0 volt, color: blue pin 4: signal: out 1 (PNP), color: black pin 5: signal: FE, color: gray








# Pressure Switches, Series PM1

- Operating pressure -13.05 ... 0, -13.05 ... 43, 2.9 ... 232 psi
- Mechanical
- Spring-loaded bellows, adjustable
- Electr. connection Plug, EN 175301-803, form A
- Compressed air connection Internal thread, G 1/4, Flange with O-ring, Ø 5x1,5



Type	Mechanical
Function	change-over contact (mechanical)
Mounting orientation	Any
Working pressure min./max.	See table below
Ambient temperature min./max.	-4 ... 176 °F
Medium temperature min./max.	14 ... 176 °F
Medium	Compressed air
Measurement	Relative pressure
Switching element	microswitch (input/output)
Protection against overpressure	1160 psi
Max. switching frequency	1,5 Hz
Shock resistance max.	15 g
Vibration resistance	10 g (60 - 500 Hz)
Repeatability (% of full scale value)	± 1 %
Switching point	adjustable
Hysteresis	max. switching pressure difference
DC operating voltage,min./max.	12 ... 30 V DC
Operational voltage AC,min./max.	12 ... 250 V AC
Mounting types	via through holes
Protection class	IP65
Electr. connection	Plug, EN 175301-803, form A
Weight	0.353 lbs

## Technical data

Part No.		Type	Operating pressure range	Compressed air connection
			min./max.	
R412010711		PM1-M3-G014	-13.05 ... 0 psi	Internal thread, G 1/4
R412022752		PM1-M3-G014	-13.05 ... 43 psi	Internal thread, G 1/4
R412010712		PM1-M3-G014	2.9 ... 232 psi	Internal thread, G 1/4
R412010713		PM1-M3-G014	2.9 ... 232 psi	Internal thread, G 1/4
R412010714		PM1-M3-F001	-13.05 ... 0 psi	Flange with O-ring, Ø 5x1,5
R412010715		PM1-M3-F001	2.9 ... 232 psi	Flange with O-ring, Ø 5x1,5
R412010718		PM1-M3-F001	2.9 ... 232 psi	Flange with O-ring, Ø 5x1,5

Part No.	Scope of delivery	Fig.	
R412010711	With valve plug connector	Fig. 1	-
R412022752	Without valve plug connector	Fig. 1	-
R412010712	Without valve plug connector	Fig. 1	1)
R412010713	With valve plug connector	Fig. 1	1)
R412010714	With valve plug connector	Fig. 2	-
R412010715	Without valve plug connector	Fig. 2	1)

Part No.	Scope of delivery	Fig.	
R412010718	With valve plug connector	Fig. 2	1)

1) Min. switching pressure range 0.2 bar falling/0.5 bar rising

## Technical information

Switching function increasing pressure: contact switches from 1-2 to 1-3.

Switching function decreasing pressure: contact switches from 1-3 to 1-2.

Notice: Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!

The microswitch has silver-plated contacts.

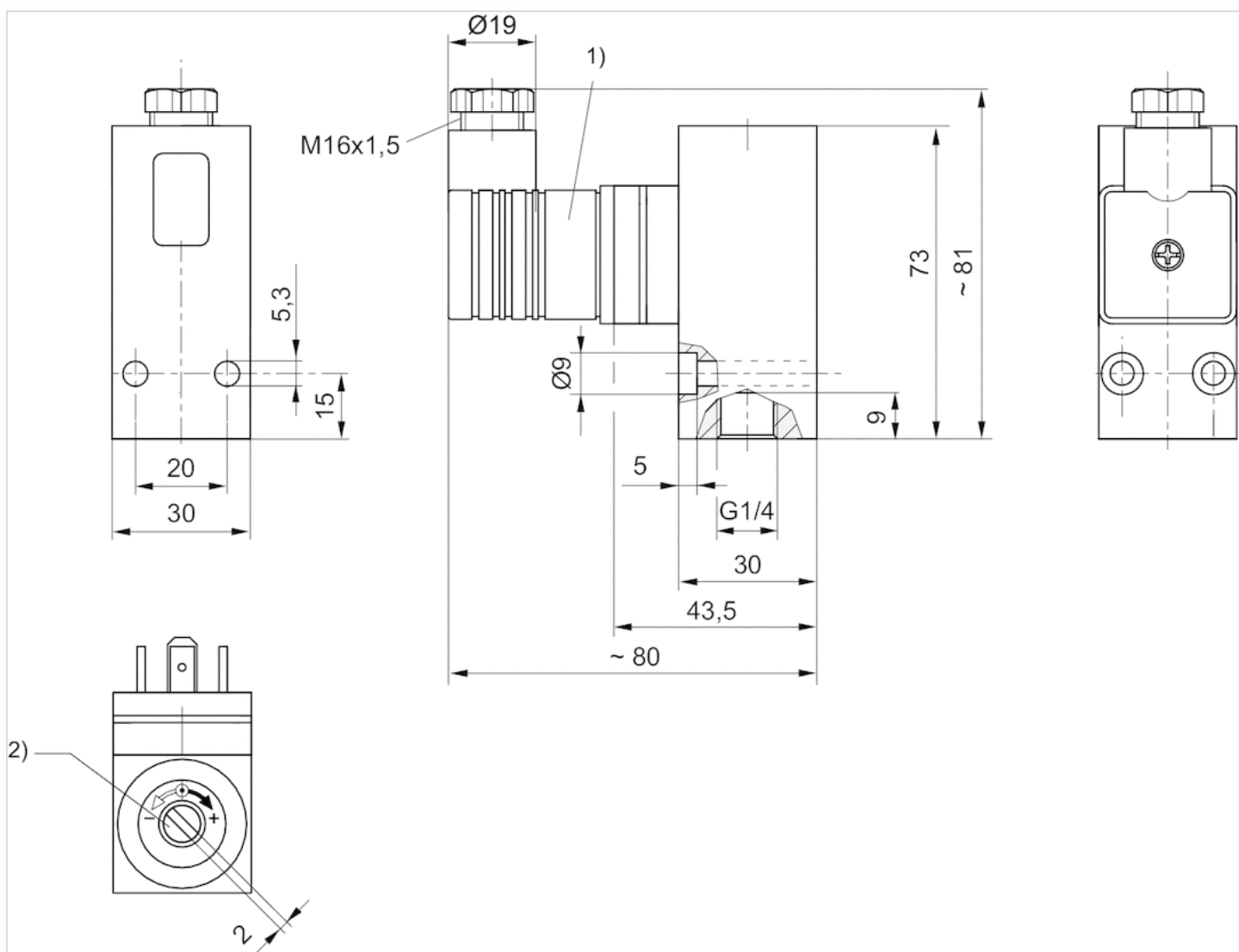
Please observe the pin assignment when selecting plug connectors.

## Technical information

Material	
Housing	Aluminum
Seals	Acrylonitrile butadiene rubber
Electr. connection	Brass, nickel-plated

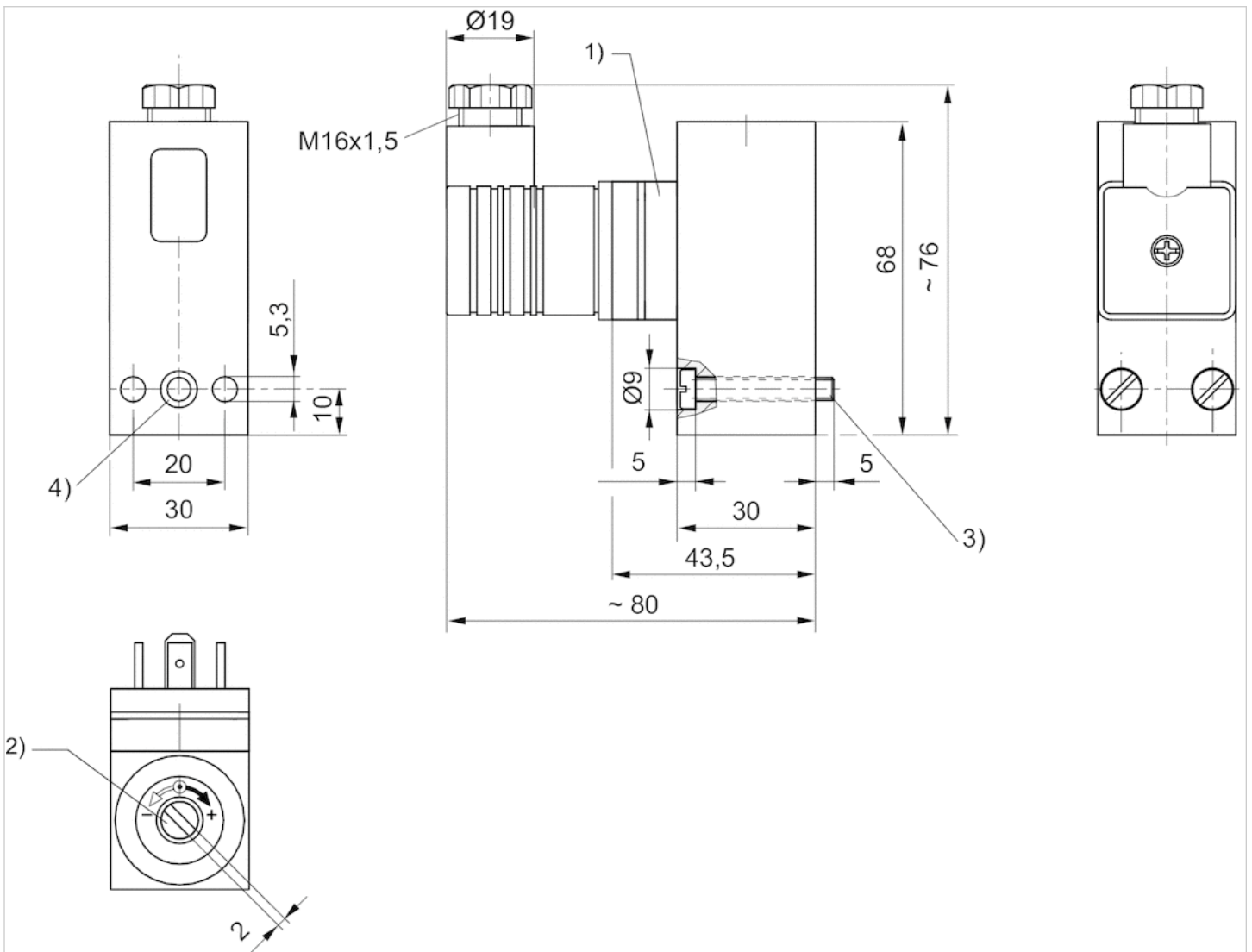
## Dimensions

Fig. 1



- 1) Valve plug connector  
2) Adjustment screw, self-holding

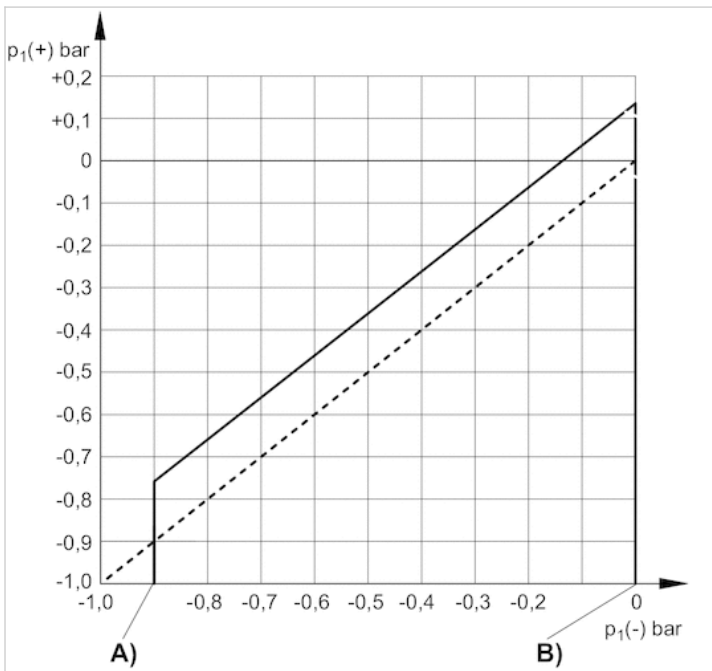
Fig. 2



- 1) Valve plug connector
- 2) Adjustment screw, self-holding
- 3) cylinder screw M5x30 (included in scope of delivery)
- 4) O-ring  $\text{Ø}5 \times 1,5$  (included)

## Diagrams

### differential switching pressure characteristic curve (-09 - 0 bar)



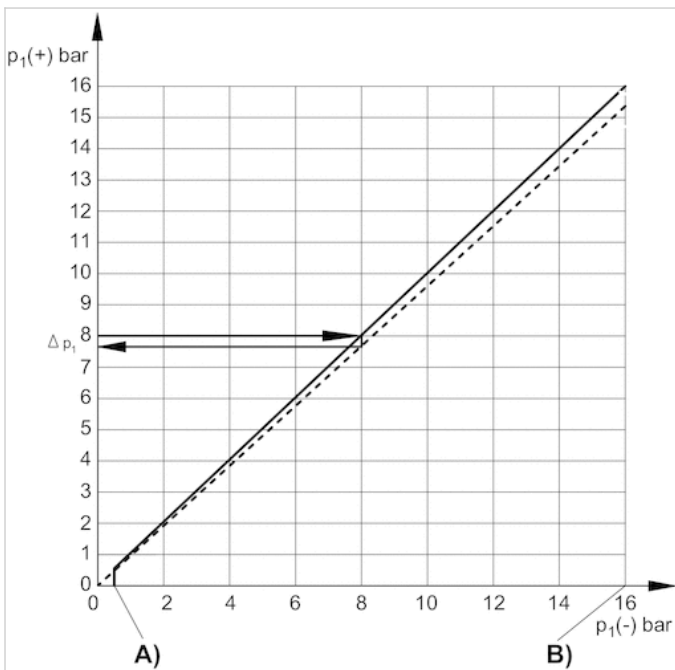
A) p1 (-), min.

B) p1 (-), max.

p1 (+) = upper switching pressure with increasing pressure

p1 (-) = lower switching pressure with decreasing pressure

### differential switching pressure characteristic curve (02 - 16 bar)



A) p1 (-), min.

B) p1 (-), max.

p1 (+) = upper switching pressure with increasing pressure

p1 (-) = lower switching pressure with decreasing pressure

$\Delta p_1$  = max. operating pressure difference or hysteresis

Example:

$p_1 (+) = 8 \text{ bar} > p_1 (-) = 7.6 \text{ bar}$   
 $\Delta p_1 = 0.4 \text{ bar}$

max. permissible continuous current  $I_{max.}$  [A] with ohmic load

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

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

- 1) AC
- 2) DC

max. permissible continuous current  $I_{max.}$  [A] with inductive load

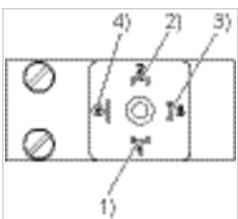
U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2
48	3	0.55
60	3	0.4
125	3	0.15
250	3	-

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

- 1) AC
- 2) DC
- 3)  $\cos \approx 0,7^\circ$
- 4)  $L/R \approx 10 \text{ ms}$

## Pin assignments

PIN assignment for valve plug connectors



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







# Pressure Switches, Series PM1

- Operating pressure -13.05 ... 0, 2.9 ... 232 psi
- Mechanical
- Spring-loaded bellows, adjustable
- Electr. connection Plug, M12x1
- Compressed air connection Internal thread, G 1/4, Flange with O-ring, Ø 5x1,5



Type	Mechanical
Function	change-over contact (mechanical)
Mounting orientation	Any
Working pressure min./max.	See table below
Ambient temperature min./max.	-4 ... 176 °F
Medium temperature min./max.	14 ... 176 °F
Medium	Compressed air
Measurement	Relative pressure
Switching element	microswitch (input/output)
Protection against overpressure	1160 psi
Max. switching frequency	1,5 Hz
Shock resistance max.	15 g
Vibration resistance	10 g (60 - 500 Hz)
Repeatability (% of full scale value)	± 1 %
Switching point	adjustable
Hysteresis	max. switching pressure difference
DC operating voltage,min./max.	12 ... 30 V DC
Operational voltage AC,min./max.	12 ... 30 V AC
Mounting types	via through holes
Protection class	IP67
Electr. connection	Plug, M12x1
Weight	0.331 lbs

## Technical data

Part No.		Type	Operating pressure range	Compressed air connection
			min./max.	
R412010716		PM1-M3-G014	-13.05 ... 0 psi	Internal thread, G 1/4
R412010717		PM1-M3-G014	2.9 ... 232 psi	Internal thread, G 1/4
R412010719		PM1-M3-F001	-13.05 ... 0 psi	Flange with O-ring, Ø 5x1,5
R412010720		PM1-M3-F001	2.9 ... 232 psi	Flange with O-ring, Ø 5x1,5

Part No.	Fig.	
R412010716	Fig. 1	-
R412010717	Fig. 1	1)
R412010719	Fig. 2	-
R412010720	Fig. 2	1)

1) Min. switching pressure range 0.2 bar falling/0.5 bar rising

## Technical information

Switching function increasing pressure: contact switches from 1-2 to 1-3.

Switching function decreasing pressure: contact switches from 1-3 to 1-2.

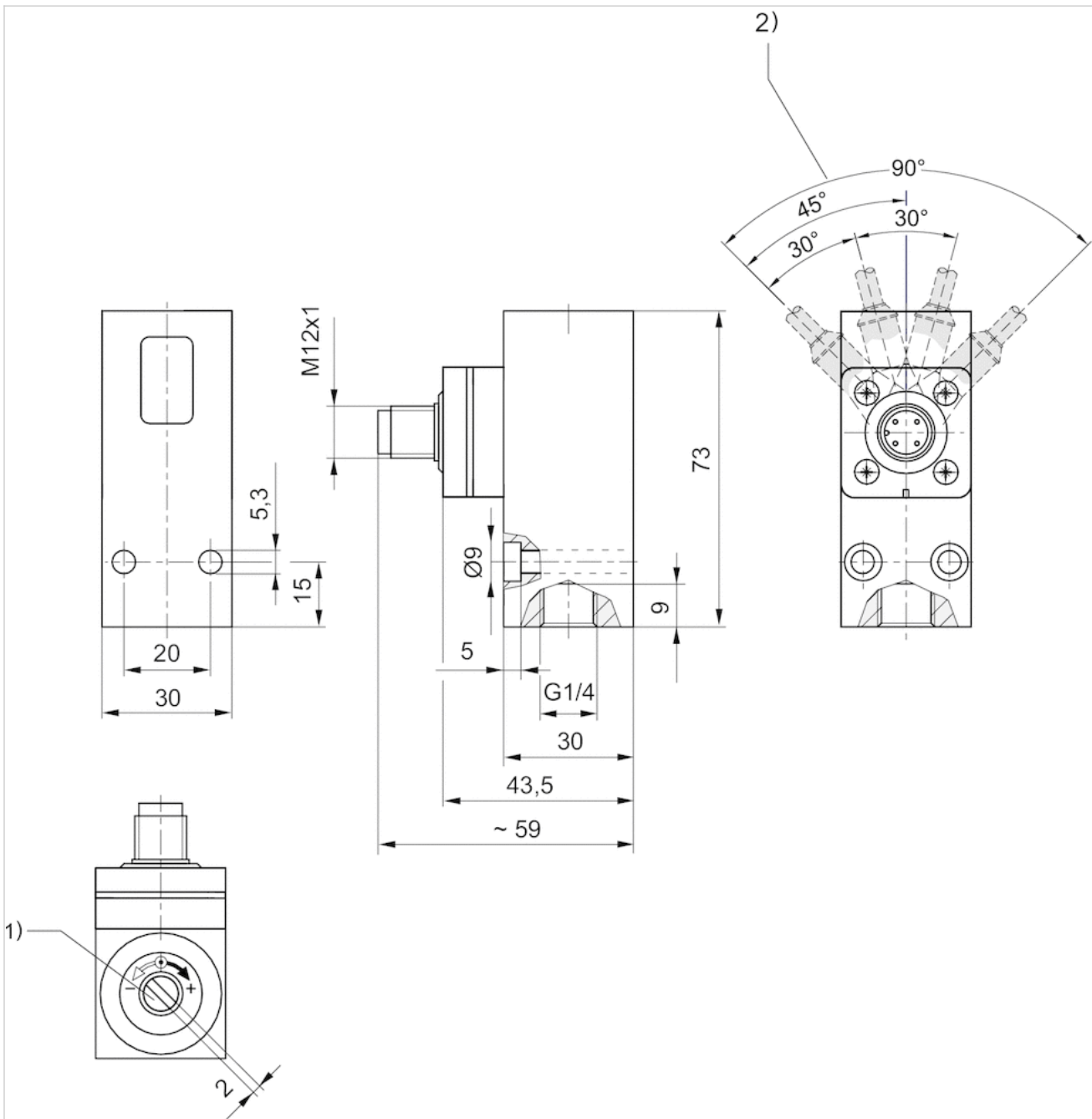
Notice: Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!  
The microswitch has silver-plated contacts.

## Technical information

Material	
Housing	Aluminum
Seals	Acrylonitrile butadiene rubber
Electr. connection	Brass, nickel-plated

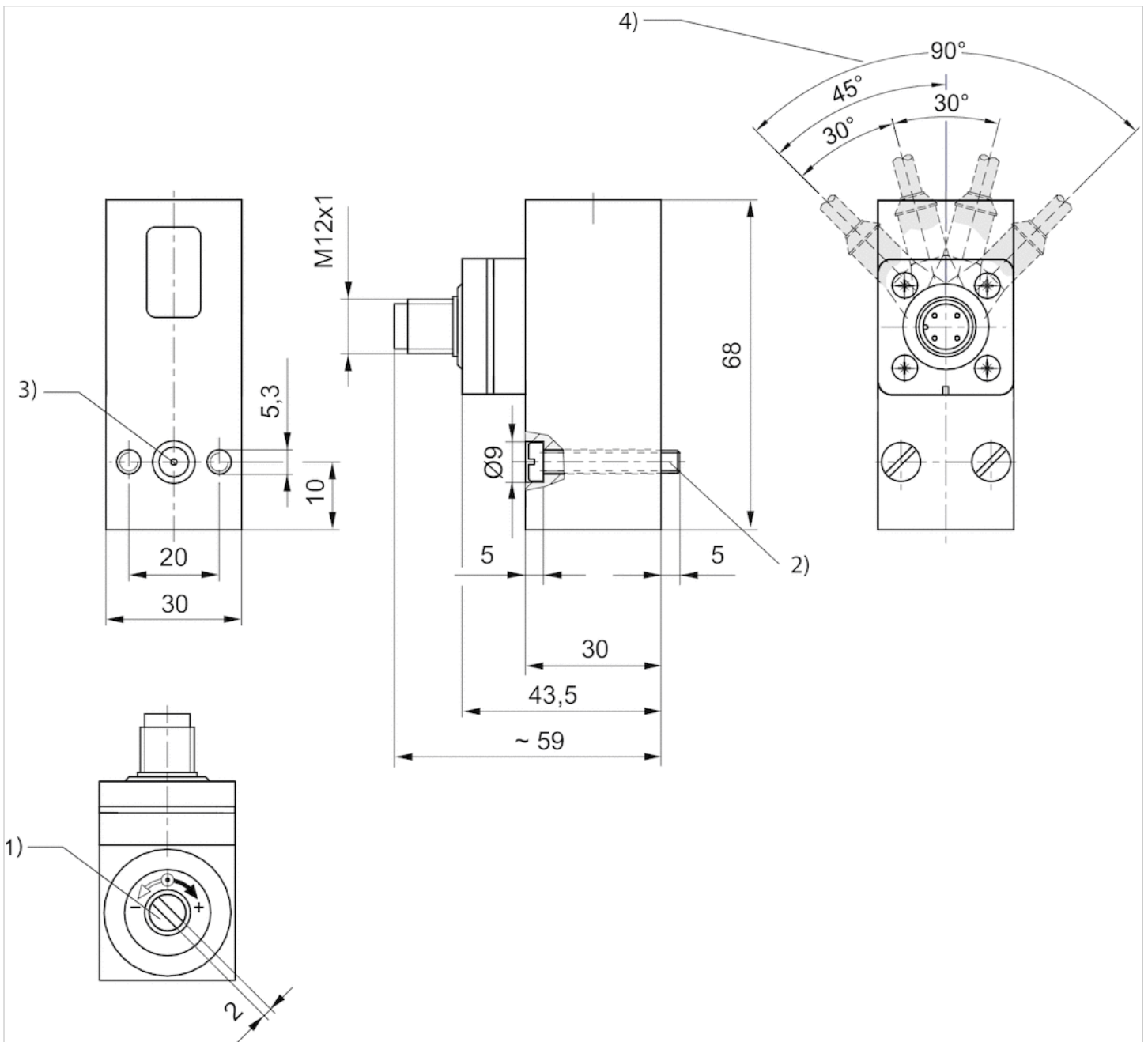
# Dimensions

Fig. 1



- 1) Adjustment screw, self-holding
- 2) Detent position

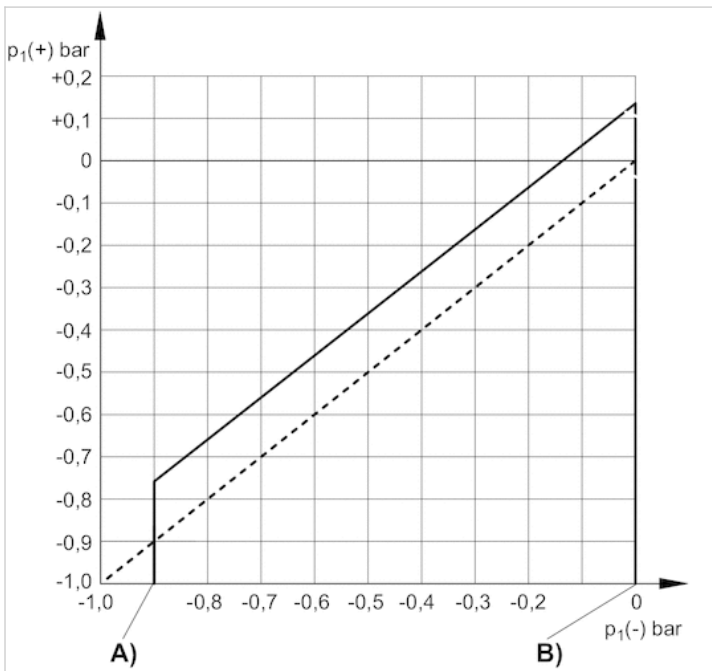
Fig. 2



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

## Diagrams

### differential switching pressure characteristic curve (-09 - 0 bar)



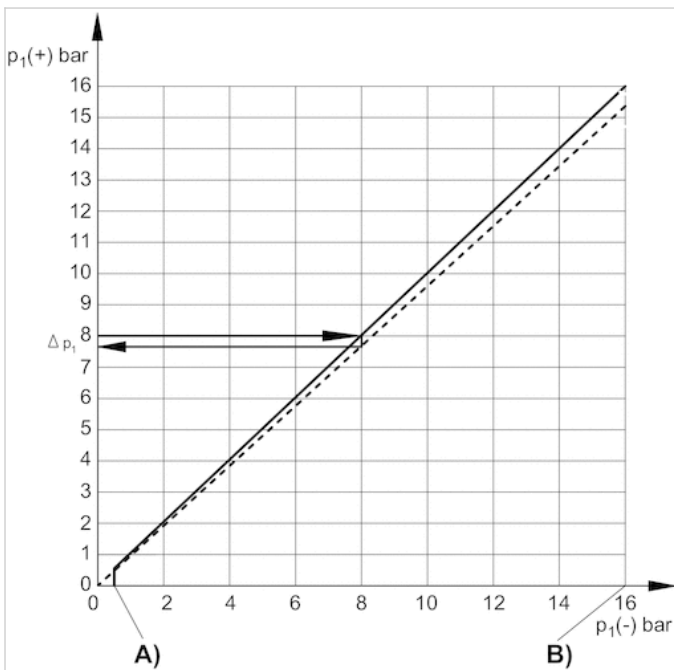
A)  $p_1(-)$ , min.

B)  $p_1(-)$ , max.

$p_1(+)$  = upper switching pressure with increasing pressure

$p_1(-)$  = lower switching pressure with decreasing pressure

### differential switching pressure characteristic curve (02 - 16 bar)



A)  $p_1(-)$ , min.

B)  $p_1(-)$ , max.

$p_1(+)$  = upper switching pressure with increasing pressure

$p_1(-)$  = lower switching pressure with decreasing pressure

$\Delta p_1$  = max. operating pressure difference or hysteresis

Example:

$p_1 (+) = 8 \text{ bar} > p_1 (-) = 7.6 \text{ bar}$   
 $\Delta p_1 = 0.4 \text{ bar}$

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

U [V]	I [A] 1)	I [A] 2)
30-250	3A	
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

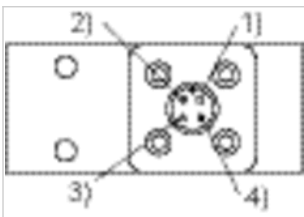
U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	3A	
30 / 48 / 60 / 125		2 / 0,55 / 0,4 / 0,2

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

- 1) AC
- 2) DC
- 3)  $\cos \approx 0,7^\circ$
- 4)  $L/R \approx 10 \text{ ms}$

Pin assignments

Pin assignments



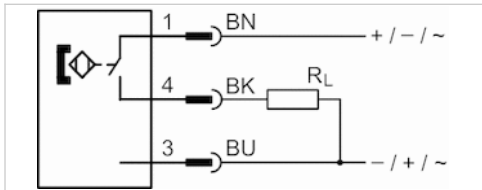
Pin	1	2	3	4
Allocation	+UB	break contact	No function	NO (make contact)

# Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M12, 4-pin, with knurled screw
- UL certification
- Reed
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, ICM, KHZ, TRR



Certificates	CE declaration of conformity, cULus, RoHS
Ambient temperature min./max.	-22 ... 176 °F
Protection class	IP65, IP67
Switching point precision	±0,1 mT
Min./max. DC operating voltage	10 ... 30 V DC
Min./max. AC operating voltage	10 ... 30 V AC
Hysteresis	≥ 0,2 mT
Switching logic	NO (make contact)
Switching capacity	Reed, 3-pin: max. 6 W
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms



## Technical data

Part No.	for	Type of contact	Cable length L
R412022876	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	0.984 ft.

Part No.	Voltage drop U at I <sub>max</sub>	DC switching current, max.
R412022876	≤ 0,1 V	0.3 A

Part No.	AC switching current, max.	Max. switching frequency
R412022876	0.5 A	400 Hz

Part No.	Version
R412022876	Protected against polarity reversal

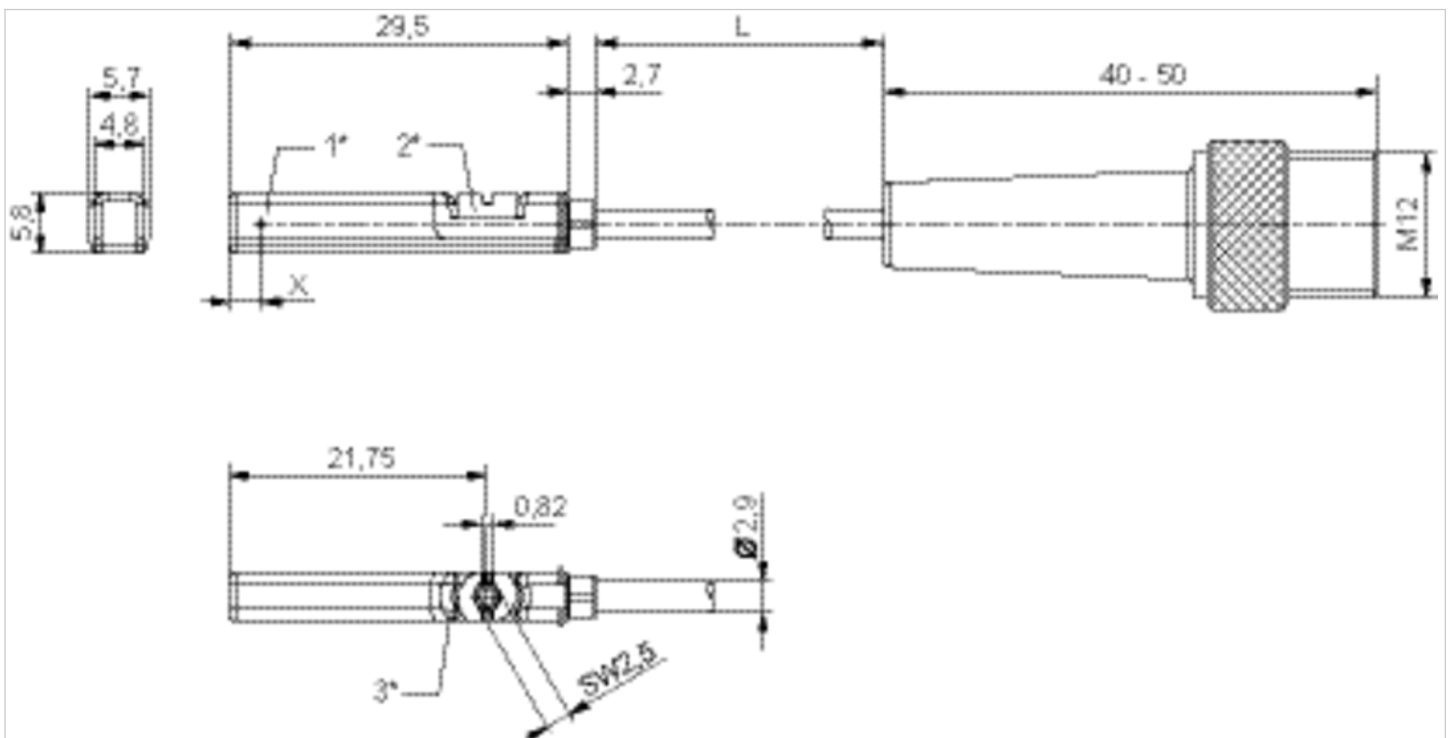
## Technical information

### Material

Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

## Dimensions

### Dimensions



1\* = switching point 2\* = locking screw 3\* = LED window, transparent

L = cable length

X = PNP: 11,6 mm, reed: 8,3 mm

## Pin assignments

### Pin assignments



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

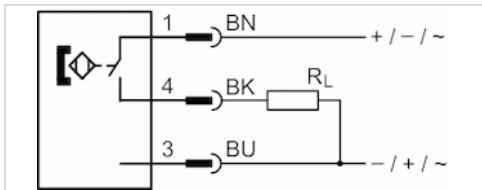


# Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M8, 3-pin, with knurled screw
- UL certification
- Reed
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, ICM, KHZ, TRR



Certificates	CE declaration of conformity, cULus, RoHS
Ambient temperature min./max.	-22 ... 176 °F
Protection class	IP65, IP67
Switching point precision	±0,1 mT
Min./max. DC operating voltage	10 ... 30 V DC
Min./max. AC operating voltage	10 ... 30 V AC
Hysteresis	≥ 0,2 mT
Switching logic	NO (make contact)
Switching capacity	Reed, 3-pin: max. 6 W
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms



## Technical data

Part No.	for	Type of contact	Cable sheath
R412022873	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	Polyurethane
R412022875	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	Polyvinyl chloride
R412022874	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	Polyurethane

Part No.	Cable length L	Voltage drop U at I <sub>max</sub>	DC switching current, max.
R412022873	0.984 ft.	I*Rs	0.3 A
R412022875	0.984 ft.	I*Rs	0.3 A
R412022874	1.64 ft.	I*Rs	0.3 A

Part No.	AC switching current, max.	Max. switching frequency
R412022873	0.5 A	400 Hz
R412022875	0.5 A	400 Hz
R412022874	0.5 A	400 Hz

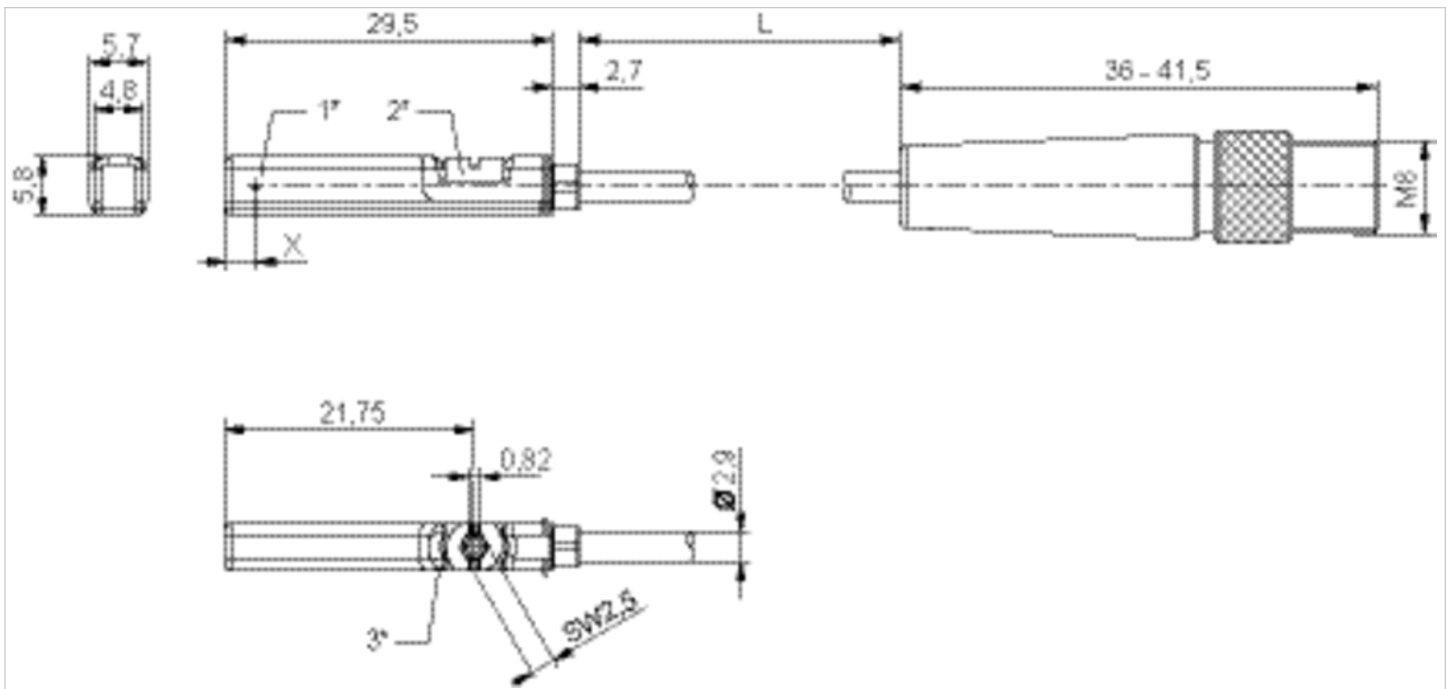
Part No.	Version
R412022873	Protected against polarity reversal
R412022875	Protected against polarity reversal
R412022874	Protected against polarity reversal

## Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane, Polyvinyl chloride
Locking screw	Stainless steel

## Dimensions

### Dimensions



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

## Pin assignments

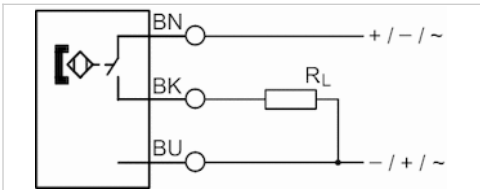
### Pin assignments



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

# Sensor, Series ST6

- 6 mm T-slot
- with cable
- open cable ends, 3-pin
- UL certification
- Reed
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, ICM, KHZ, TRR



## Certificates

Ambient temperature min./max.	-22 ... 176 °F
Protection class	IP65, IP67, IP69K
Switching point precision	±0,1 mT
Min./max. DC operating voltage	10 ... 30 V DC
Min./max. AC operating voltage	10 ... 30 V AC
Hysteresis	≥ 0,2 mT
Switching logic	NO (make contact)
Switching capacity	Reed, 2-pin: max. 10 W, Reed, 3-pin: max. 6 W
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms

## Technical data

Part No.	for	Type of contact	Cable length L
R412022869	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	9.84 ft.
R412022870	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	16.4 ft.
R412022871	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	32.81 ft.

Part No.	Voltage drop U at I <sub>max</sub>	DC switching current, max.
R412022869	I*Rs	0.3 A
R412022870	≤ 0,1 V	0.3 A
R412022871	I*Rs	0.3 A

Part No.	AC switching current, max.	Max. switching frequency
R412022869	0.5 A	400 Hz
R412022870	0.5 A	400 Hz
R412022871	0.5 A	400 Hz

Part No.	Version	Fig.
R412022869	Protected against polarity reversal	Fig. 2
R412022870	Protected against polarity reversal	Fig. 2
R412022871	Protected against polarity reversal	Fig. 2

open cable ends, 3-pin

## Technical information

No cULus certification for 230 V variant.

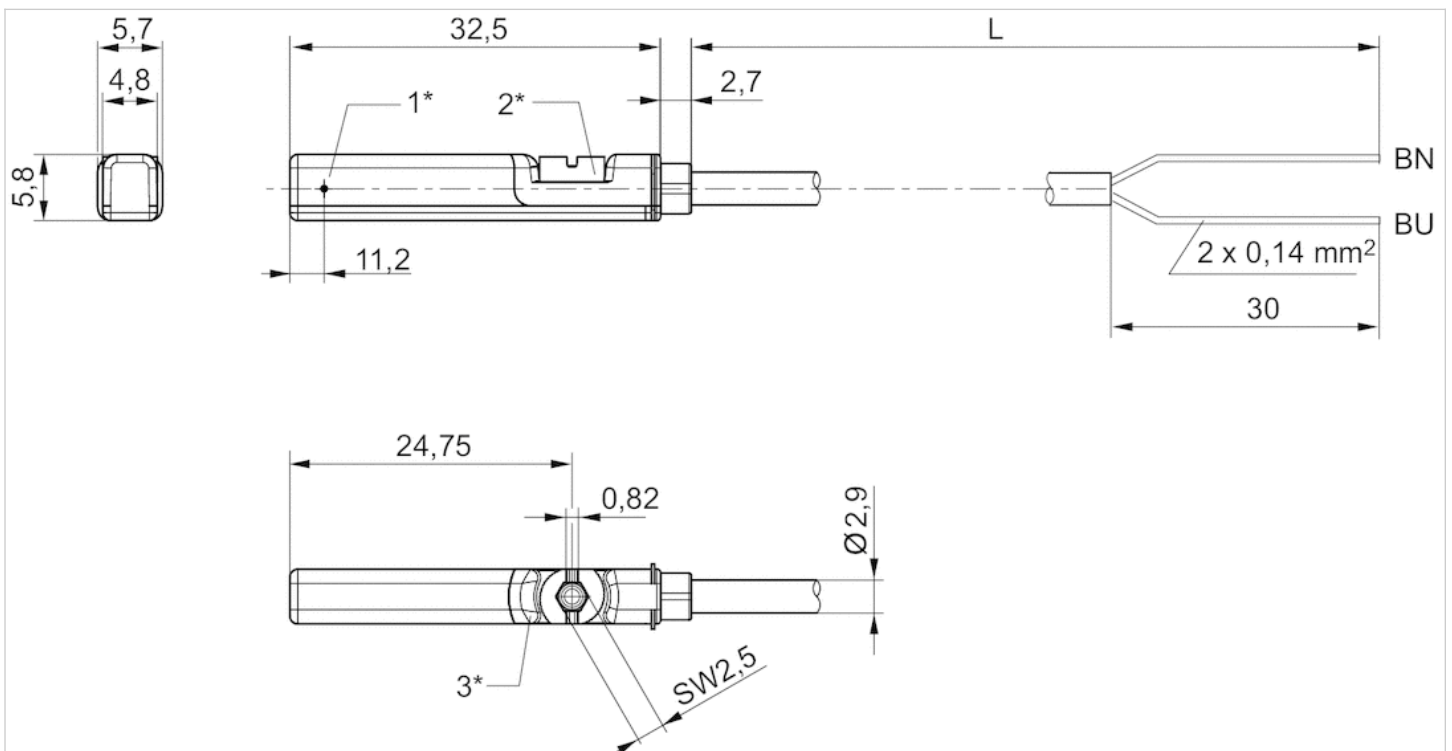
## Technical information

### Material

Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

## Dimensions

Fig. 1

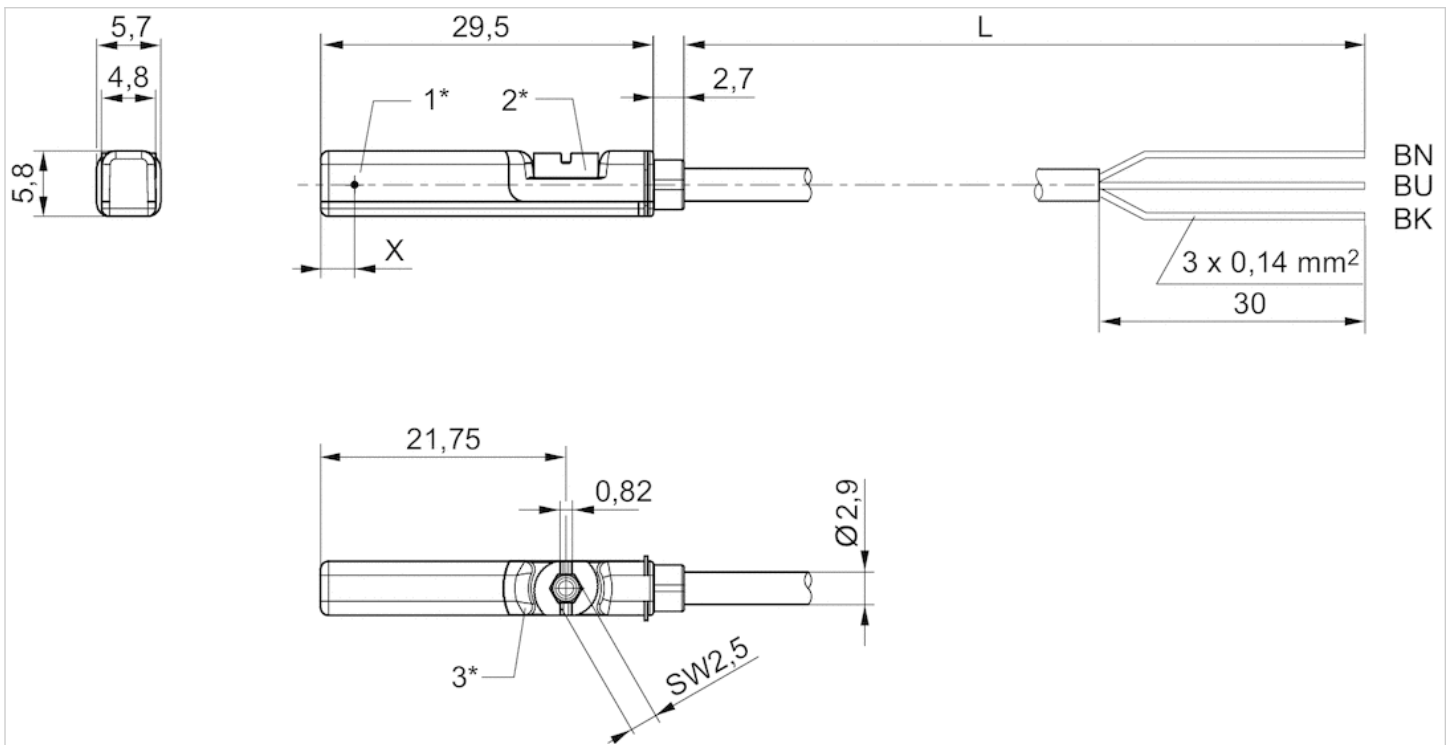


1\* = switching point 2\* = locking screw 3\* = LED window, transparent

L = cable length

BN=brown, BU=blue

Fig. 2



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

## QR1-S standard series

- Straight fitting
- External thread
- G 1/4, G 3/8, G 1/2
- push-in fitting
- Ø 4, Ø 6, Ø 8, Ø 10, Ø 12, Ø 14, Ø 16
- QR1-S-RPN



Working pressure min./max.	-13 ... 145 psi
Ambient temperature min./max.	32 ... 140 °F
Weight	See table below

### Technical data

Part No.	Port G	Port D	Delivery unit	Weight
2121004140	G 1/4	Ø 4	10 piece	0.044 lbs
2121006140	G 1/4	Ø 6	10 piece	0.047 lbs
2121008140	G 1/4	Ø 8	10 piece	0.053 lbs
2121010140	G 1/4	Ø 10	10 piece	0.058 lbs
2121012140	G 1/4	Ø 12	10 piece	0.087 lbs
R412005000	G 3/8	Ø 6	10 piece	0.071 lbs
2121008380	G 3/8	Ø 8	10 piece	0.078 lbs
2121010380	G 3/8	Ø 10	10 piece	0.092 lbs
2121012380	G 3/8	Ø 12	10 piece	0.099 lbs
2121014380	G 3/8	Ø 14	10 piece	0.1 lbs
R412005005	G 3/8	Ø 16	10 piece	0.128 lbs
R412005001	G 1/2	Ø 8	10 piece	0.114 lbs
2121010120	G 1/2	Ø 10	10 piece	0.128 lbs
2121012120	G 1/2	Ø 12	10 piece	0.125 lbs
R412005006	G 1/2	Ø 16	10 piece	0.147 lbs
2121014120	G 1/2	Ø 14	10 piece	0.141 lbs

### Technical information

The series QR1 (plastic) and QR2 (metal) can not be combined  
Thread seal with captive O-ring

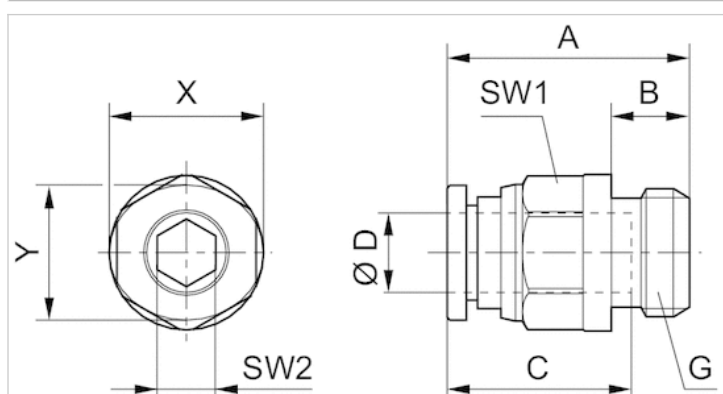
For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Material	
Material	nickel-plated
Housing	Brass, nickel-plated
Seal	Acrylonitrile butadiene rubber
Tooth lock washer	Stainless steel
Release ring	Polyoxymethylene
Release ring holder	Die cast zinc, Brass, nickel-plated
Thread	Brass, nickel-plated

## Dimensions

### Dimensions



### Dimensions

Part No.	Port D	Port G	A	B	C	SW1	SW2	X	Y
2121004140	Ø 4	G 1/4	19.1	6	16	10	3	12	10
2121006140	Ø 6	G 1/4	21.6	6	17	12	4	14	12
2121008140	Ø 8	G 1/4	22.4	6	18.5	14	6	16	14
2121010140	Ø 10	G 1/4	29.9	6	21	17	7	19	17
2121012140	Ø 12	G 1/4	33.4	6	22.5	21	7	23	21
R412005000	Ø 6	G 3/8	21.6	7	17	12	4	14	12
2121008380	Ø 8	G 3/8	23.2	7	18.5	14	6	16	14
2121010380	Ø 10	G 3/8	25.9	7	21	17	8	19	17
2121012380	Ø 12	G 3/8	33.5	7	23	21	9	23	21
2121014380	Ø 14	G 3/8	30.1	7	24.6	22	9	25	23
R412005005	Ø 16	G 3/8	35.3	7	25.5	24	8	27	24
R412005001	Ø 8	G 1/2	25.7	8.5	18.5	14	6	16	14
2121010120	Ø 10	G 1/2	27.4	8.5	21	17	8	19	17
2121012120	Ø 12	G 1/2	29.5	8.5	23	21	10	23	21
R412005006	Ø 16	G 1/2	36.3	8.5	25.5	24	10	27	24
2121014120	Ø 14	G 1/2	25.6	8.5	24.6	24	11	25	23



## QR1-S standard series

- Elbow fitting
- External thread
- G 1/4, G 3/8, G 1/2
- push-in fitting
- Ø 4, Ø 6, Ø 8, Ø 10, Ø 12, Ø 14, Ø 16
- QR1-S-RVT



Working pressure min./max.	-13 ... 145 psi
Ambient temperature min./max.	32 ... 140 °F
Weight	See table below

### Technical data

Part No.	Port G	Port D	Delivery unit	Weight
2122004140	G 1/4	Ø 4	10 piece	0.038 lbs
2122006140	G 1/4	Ø 6	10 piece	0.042 lbs
2122008140	G 1/4	Ø 8	10 piece	0.051 lbs
2122010140	G 1/4	Ø 10	10 piece	0.063 lbs
2122012140	G 1/4	Ø 12	10 piece	0.093 lbs
R412005092	G 3/8	Ø 6	10 piece	0.068 lbs
2122008380	G 3/8	Ø 8	10 piece	0.072 lbs
2122010380	G 3/8	Ø 10	10 piece	0.088 lbs
2122012380	G 3/8	Ø 12	10 piece	0.096 lbs
2122014380	G 3/8	Ø 14	5 piece	0.106 lbs
R412005097	G 3/8	Ø 16	5 piece	0.135 lbs
R412005093	G 1/2	Ø 8	10 piece	0.108 lbs
2122010120	G 1/2	Ø 10	10 piece	0.111 lbs
2122012120	G 1/2	Ø 12	10 piece	0.124 lbs
2122014120	G 1/2	Ø 14	5 piece	0.146 lbs
R412005098	G 1/2	Ø 16	5 piece	0.168 lbs

Weight per piece

### Technical information

The series QR1 (plastic) and QR2 (metal) can not be combined  
Thread seal with captive O-ring

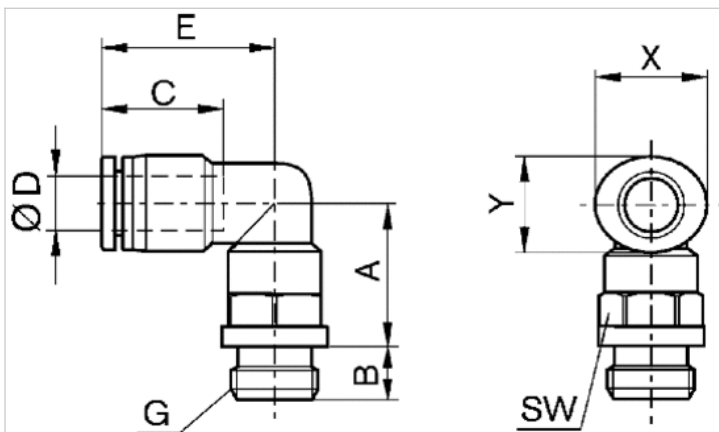
For further information about assembling and tolerances of adaptable tubing can be found in the “Technical information” document (available in the MediaCentre).

## Technical information

Material	
Material	nickel-plated
Housing	Polybutyleneterephthalate
Seal	Acrylonitrile butadiene rubber
Tooth lock washer	Stainless steel
Release ring	Polyoxymethylene
Release ring holder	Die cast zinc, Brass, nickel-plated
Thread	Brass, nickel-plated

## Dimensions

### Dimensions



### Dimensions

Part No.	Port D	Port G	A	B	C	E	SW	X	Y
2122004140	Ø 4	G 1/4	9.5	6	16	18.5	16	12	10
2122006140	Ø 6	G 1/4	10.7	6	17	20.3	16	14	12
2122008140	Ø 8	G 1/4	11.5	6	18.5	22.6	16	16	14
2122010140	Ø 10	G 1/4	16.5	6	21	27	16	19	17
2122012140	Ø 12	G 1/4	18.3	6	22.5	29.2	16	23	21
R412005092	Ø 6	G 3/8	11.2	7	17	20.3	20	14	12
2122008380	Ø 8	G 3/8	11.5	7	18.5	22.6	20	16	14
2122010380	Ø 10	G 3/8	13.6	7	21	27	20	19	16
2122012380	Ø 12	G 3/8	15.3	7	22.5	29.2	20	23	21
2122014380	Ø 14	G 3/8	23.1	7	24.6	32.1	20	25	23
R412005097	Ø 16	G 3/8	24.2	7	24.8	33.3	20	27	24
R412005093	Ø 8	G 1/2	12.5	8.5	18.5	22.6	24	16	14
2122010120	Ø 10	G 1/2	14.1	8.5	21	27	24	19	14
2122012120	Ø 12	G 1/2	15.8	8.5	22.5	29.2	24	23	21

Part No.	Port D	Port G	A	B	C	E	SW	X	Y
2122014120	Ø 14	G 1/2	17.1	8.5	24.6	32.1	24	25	23
R412005098	Ø16	G 1/2	18.2	8.5	24.8	33.3	24	27	24

## Series QR2-S, standard

- Straight fitting
- External thread
- G 1/4, G 3/8, G 1/2
- push-in fitting
- Ø 4, Ø 5, Ø 6, Ø 8, Ø 10, Ø 12, Ø 14, Ø 16
- QR2-S-RPN



Working pressure min./max.

-13 ... 232 psi

Ambient temperature min./max.

-4 ... 176 °F

Weight

See table below

### Technical data

Part No.	Port G	Port D	Delivery unit	Weight	Fig.
1823373045	G 1/4	Ø 4	25 piece	0.026 lbs	Fig. 1
1823373046	G 1/4	Ø 5	10 piece	0.029 lbs	Fig. 1
1823373047	G 1/4	Ø 6	25 piece	0.033 lbs	Fig. 1
1823373048	G 1/4	Ø 8	10 piece	0.035 lbs	Fig. 1
1823373049	G 1/4	Ø 10	10 piece	0.057 lbs	Fig. 1
1823391809	G 1/4	Ø 12	10 piece	0.068 lbs	Fig. 1
R412004708	G 1/4	Ø 12	10 piece	0.048 lbs	Fig. 2
1823373050	G 3/8	Ø 8	10 piece	0.046 lbs	Fig. 1
1823373051	G 3/8	Ø 10	10 piece	0.062 lbs	Fig. 1
1823373052	G 3/8	Ø 12	5 piece	0.084 lbs	Fig. 1
1823373053	G 3/8	Ø 14	5 piece	0.13 lbs	Fig. 1
1823373054	G 1/2	Ø 12	5 piece	0.106 lbs	Fig. 1
1823373055	G 1/2	Ø 14	5 piece	0.141 lbs	Fig. 1
R412007955	G 1/2	Ø 16	1 piece	0.159 lbs	Fig. 1

Weight per piece

### Technical information

The series QR1 (plastic) and QR2 (metal) can not be combined  
Thread seal with captive O-ring

For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Material	
Housing	Brass, nickel-plated
Seal	Acrylonitrile butadiene rubber
Tooth lock washer	Stainless steel
Release ring	Brass, nickel-plated
Thread	Brass, nickel-plated

## Dimensions

Fig. 1

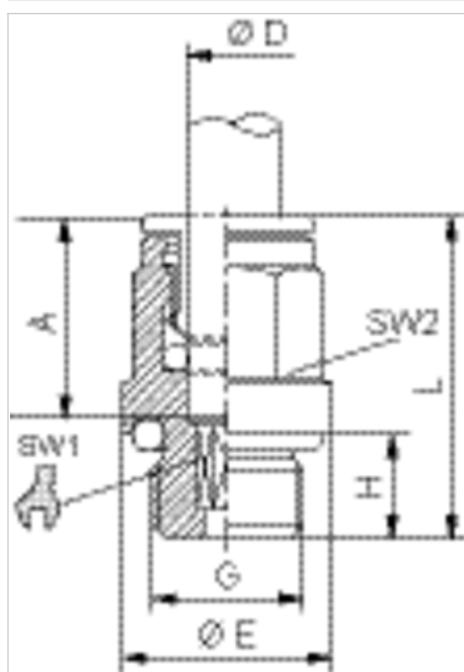
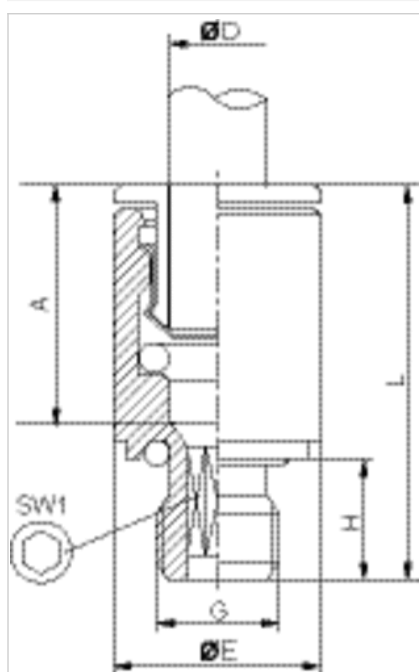


Fig. 2



## Dimensions

Part No.	Port D	Port G	Ø E	H	L	A*	SW 1	SW 2	Fig.
1823373045	Ø 4	G 1/4	17	8	21	15	2.5	9	Fig. 1
1823373046	Ø 5	G 1/4	17	8	22	16	4	10	Fig. 1
1823373047	Ø 6	G 1/4	17	6.5	22.5	16	4	11	Fig. 1
1823373048	Ø 8	G 1/4	17	8	25	18	6	13	Fig. 1
1823373049	Ø 10	G 1/4	16	8	29.5	19	7	16	Fig. 1
1823391809	Ø 12	G 1/4	16	6.5	30	20	7	18	Fig. 1
R412004708	Ø 12	G 1/4	17	8.3	31	7	-	-	Fig. 2
1823373050	Ø 8	G 3/8	20	9	25	18	6	13	Fig. 1
1823373051	Ø 10	G 3/8	21	9	29.5	19	8	16	Fig. 1
1823373052	Ø 12	G 3/8	21	9	31	20	10	18	Fig. 1
1823373053	Ø 14	G 3/8	21	9	34	22	10	21	Fig. 1
1823373054	Ø 12	G 1/2	24	11	31	20	10	18	Fig. 1
1823373055	Ø 14	G 1/2	24	11	34	22	12	21	Fig. 1
R412007955	Ø16	G 1/2	24	11	37	12	24	-	Fig. 1

\* Insertion depth

## Series QR2-S, standard

- Elbow fitting, rotatable
- External thread
- G 1/4, G 3/8, G 1/2
- push-in fitting
- Ø 4, Ø 6, Ø 8, Ø 10, Ø 12, Ø 14, Ø 16
- QR2-S-RVT



Working pressure min./max.	-13 ... 232 psi
Ambient temperature min./max.	-4 ... 176 °F
Weight	See table below

### Technical data

Part No.	Port G	Port D	Delivery unit	Weight
1823391713	G 1/4	Ø 4	10 piece	0.053 lbs
1823391714	G 1/4	Ø 6	10 piece	0.055 lbs
1823391715	G 1/4	Ø 8	10 piece	0.06 lbs
1823391718	G 1/4	Ø 10	5 piece	0.068 lbs
1823391843	G 1/4	Ø 12	5 piece	0.092 lbs
1823391716	G 3/8	Ø 8	5 piece	0.092 lbs
1823391717	G 3/8	Ø 10	5 piece	0.092 lbs
1823391838	G 3/8	Ø 12	5 piece	0.099 lbs
1823391839	G 3/8	Ø 14	5 piece	0.137 lbs
R412010182	G 3/8	Ø 16	1 piece	0.159 lbs
R412007589	G 1/2	Ø 10	5 piece	0.101 lbs
1823391840	G 1/2	Ø 12	5 piece	0.143 lbs
1823391841	G 1/2	Ø 14	5 piece	0.154 lbs
R412007956	G 1/2	Ø 16	1 piece	0.185 lbs

Weight per piece

### Technical information

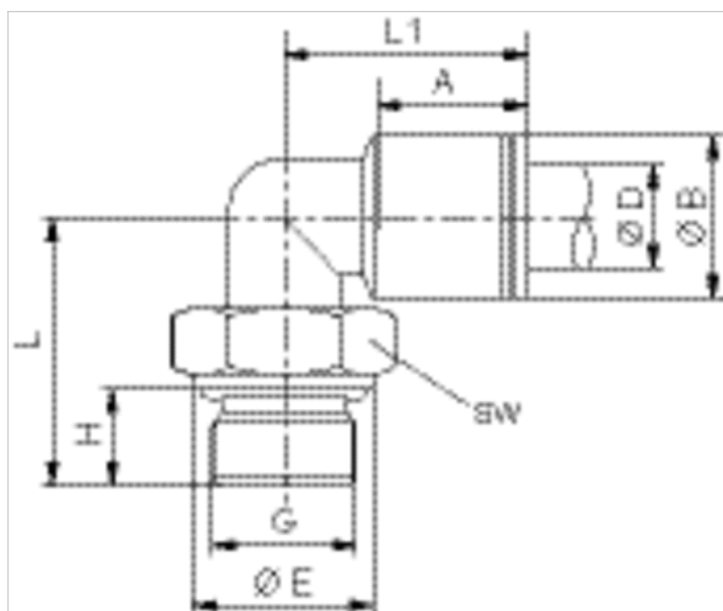
The series QR1 (plastic) and QR2 (metal) can not be combined  
Thread seal with captive O-ring

For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Material	
Housing	Brass, nickel-plated
Seal	Acrylonitrile butadiene rubber
Tooth lock washer	Stainless steel
Release ring	Brass, nickel-plated
Thread	Brass, nickel-plated

## Dimensions



## Dimensions

Part No.	Port D	Port G	ØB	ØE	H	L	L1	A*	SW
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



\* Insertion depth

## Series NU2

- Swivel banjo connection 1-fold
- External thread
- G 3/8, G 1/2
- plug-in with tube nut
- Ø 8, Ø 13
- NU2-S-RW1



Working pressure min./max.	-13 ... 145 psi
Ambient temperature min./max.	14 ... 140 °F
Weight	See table below

### Technical data

Part No.	Port G	Port D	Delivery unit	Weight
1823391296	G 3/8	Ø 8	2 piece	0.123 lbs
R412007839	G 3/8	Ø 13	2 piece	0.174 lbs
R412007838	G 1/2	Ø 13	2 piece	0.216 lbs

Weight per piece

### Technical information

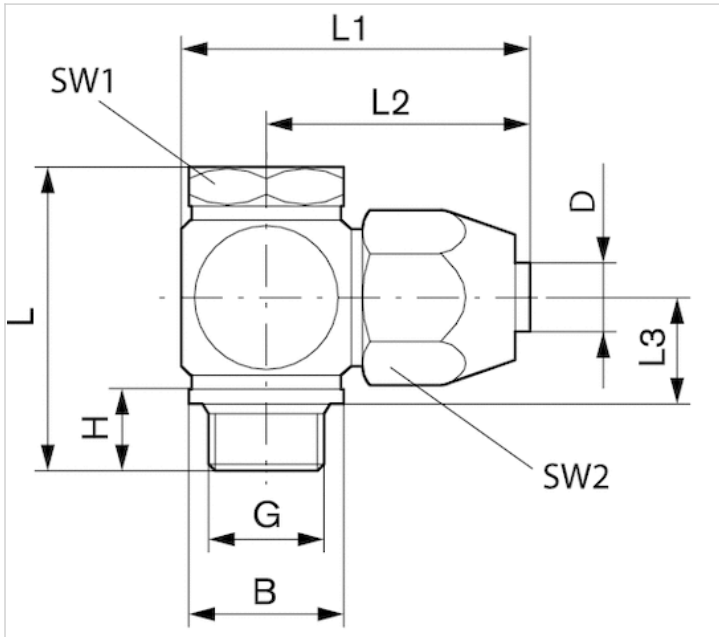
For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

### Technical information

Material	
Housing	Aluminum, anodized
Seal	Polyvinyl chloride

## Dimensions

### Dimensions



for fabric-reinforced plastic tubing

## Dimensions

Part No.	Port D	Port G	B	H	L	L1	L2	L3	SW1	SW2
1823391296	Ø 8	G 3/8	21	12.5	43	47	35	15.5	22	22
R412007839	Ø 13	G 3/8	22.9	12.5	47	49	37	18.5	22	30
R412007838	Ø 13	G 1/2	22.9	14	49.5	55	40	18.5	27	30

Connection D = inside diameter of the tubing to be used

# Double nipple, Series PE5

- External thread



Weight

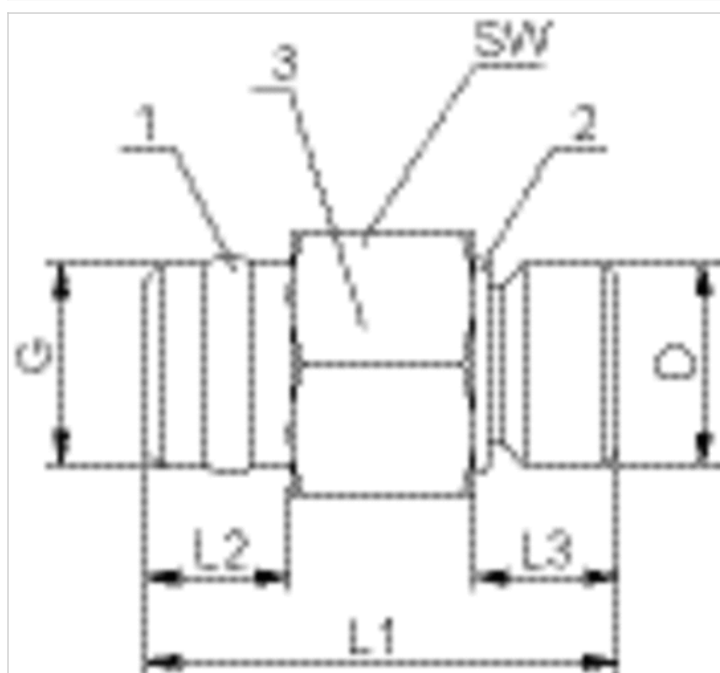
0.088 lbs

## Technical data

Part No.	Port G	Port D	Delivery unit
R412010015	G 1/4	G 1/8	2 piece
R412010016	G 1/4	G 1/4	2 piece

## Dimensions

### Dimensions



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

## Dimensions

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

- External thread
- G 1/8, G 1/4
- FPT-S-RIO



Working pressure min./max.

0 ... 232 psi

Ambient temperature min./max.

-4 ... 176 °F

## Technical data

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

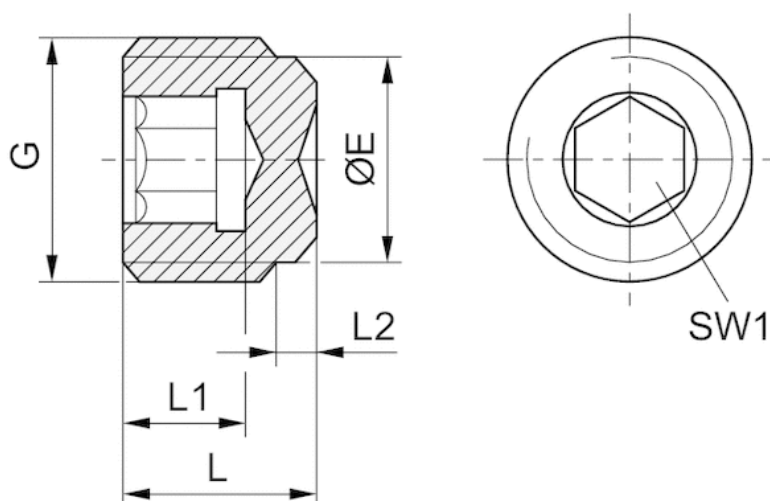
## Technical information

Material

Material	Brass
----------	-------

## Dimensions

Dimensions



## Dimensions

Port G	ØE	L	L1	L2	SW1
G 1/8	8	8	5	2	5
G 1/4	11	11	7	3.5	6

# plugs



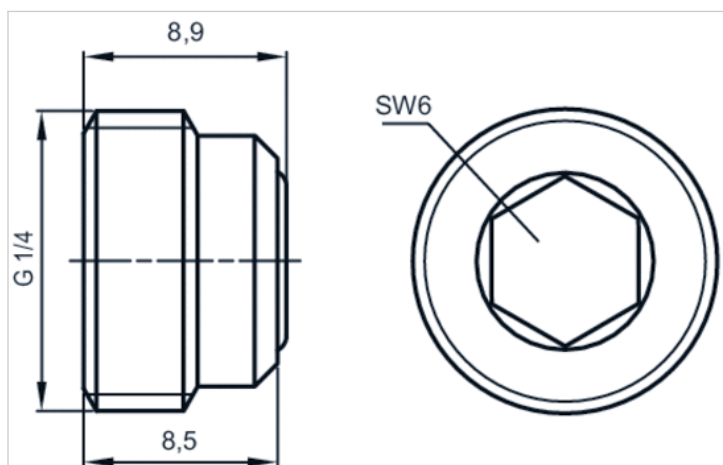
## Technical data

Part No.	Type	Suitable for	Delivery unit
R412010124	plugs	Pressure gauge connection: G 1/4	10 piece

## Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber

## Dimensions





# Reducing nipple

- External thread
- G 3/8, G 1/2
- Internal thread
- G 1/4, G 3/8
- FPT-S-RDZ



Working pressure min./max.

0 ... 870 psi

Ambient temperature min./max.

-4 ... 158 °F

## Technical data

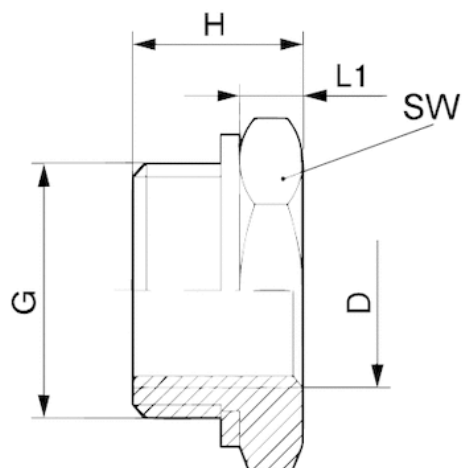
Part No.	Port G	Port D	Delivery unit
1823391013	G 3/8	G 1/4	10 piece
1823391300	G 1/2	G 1/4	5 piece
1823391014	G 1/2	G 3/8	5 piece

## Technical information

Material	
Material	Brass, nickel-plated
Seal	Polyvinyl chloride, hard

## Dimensions

### Dimensions



## Dimensions

Part No.	Port D	Port G	H	L1	SW
1823391013	G 1/4	G 3/8	15	5	19
1823391300	G 1/4	G 1/2	15.5	5.5	24
1823391014	G 3/8	G 1/2	15.5	5.5	24

# Sealing ring

- Acrylonitrile butadiene styrene



Working pressure min./max.

-13 ... 232 psi

Ambient temperature min./max.

14 ... 140 °F

## Technical data

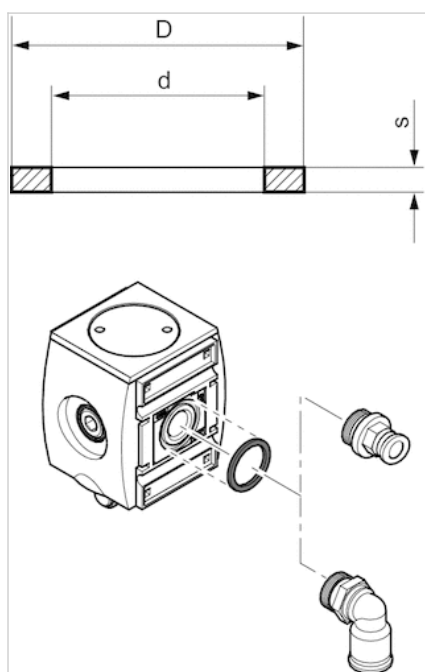
Part No.	Delivery unit
R412010148	10 piece
R412010149	10 piece
R412010150	10 piece

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

## Technical information

Material	
Material	Acrylonitrile butadiene styrene

## Dimensions



## Dimensions

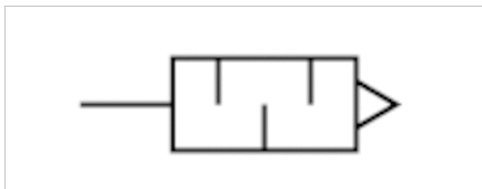
Part No.	usage	Type	d	D	s
R412010148	AS2	For compressed air connection G 3/8	17.9	22.5	1.5
R412010149	AS3	For compressed air connection G 1/2	22.4	26.4	1.5
R412010150	AS5	For compressed air connection G 1	36.9	41.9	1.8

# Silencers, series SI1

- Sintered bronze



Working pressure min./max.	0 ... 145 psi
Ambient temperature min./max.	-13 ... 176 °F
Medium	Compressed air
Sound pressure level	85 dB
Weight	0.077 lbs
Comment	Flow characteristic curves can be found under "Diagrams".



## Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827000035	G 1/2	2 Cv	2 piece

Weight per piece

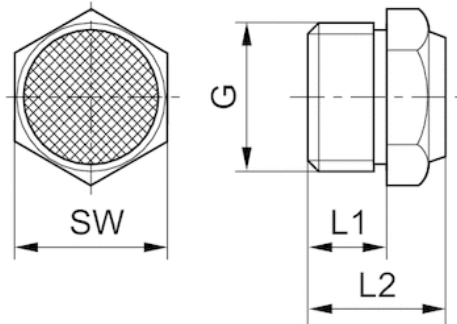
Nominal flow Qn at p1 = 87 psi (absolute) freely discharged. Sound pressure level measured at 87 psi against atmosphere at 3.281 ft. distance.

## Technical information

Material	
Silencers	Sintered bronze
Thread	Brass

## Dimensions

### Dimensions



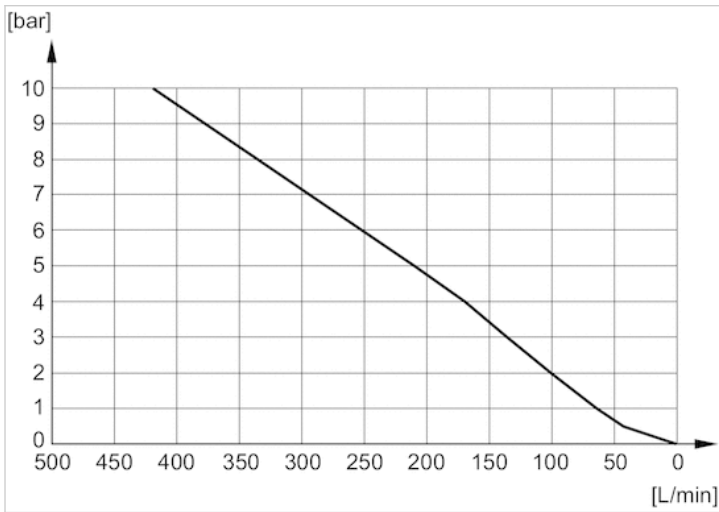
## Dimensions

Part No.	Port G	L1	L2	SW
1827000035	G 1/2	12	19.5	27

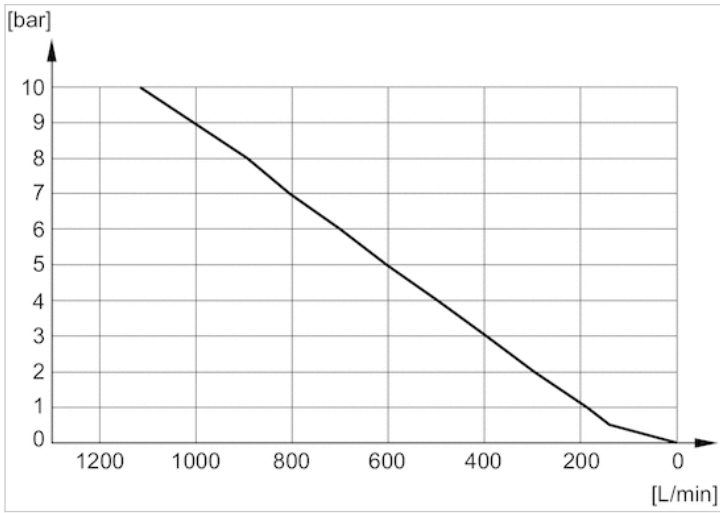
Sound pressure level measured at 6 bar at 1 m distance

## Diagrams

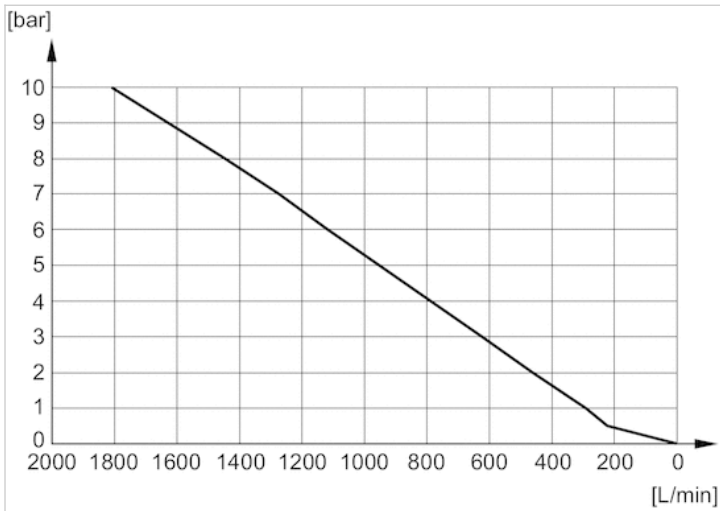
### Flow diagram 1827000032



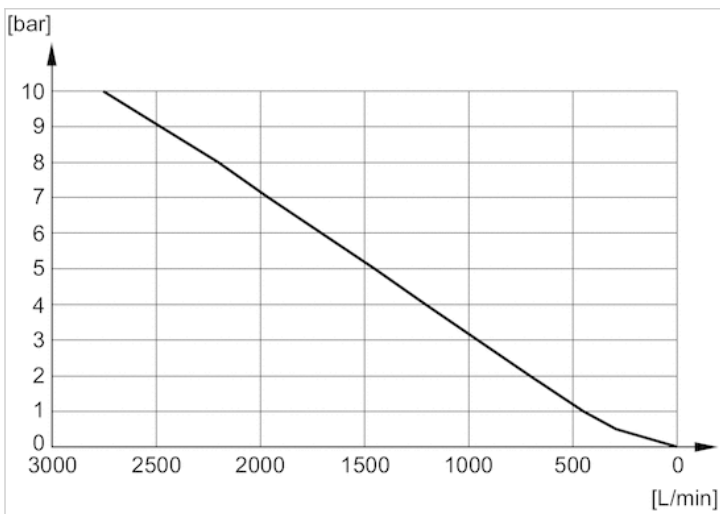
Flow diagram 1827000031



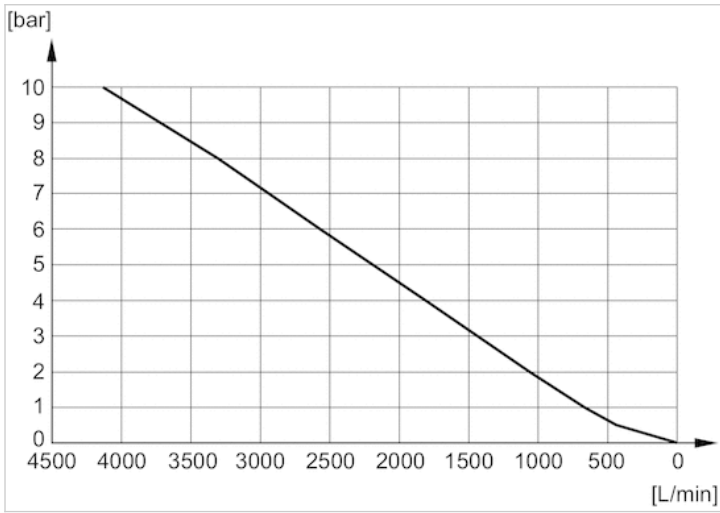
Flow diagram 1827000033



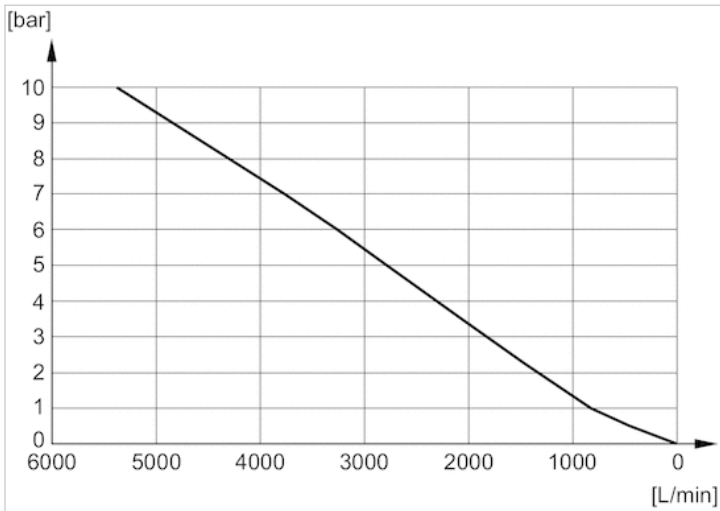
Flow diagram 1827000034



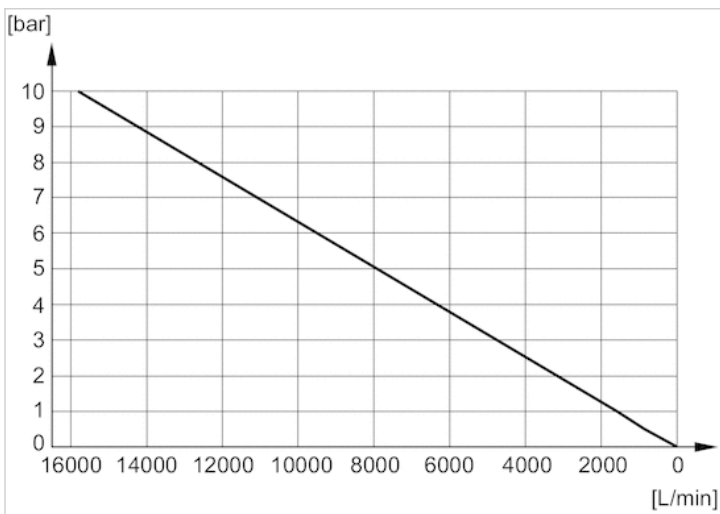
Flow diagram 1827000035



Flow diagram 8145003400



Flow diagram 8145001000



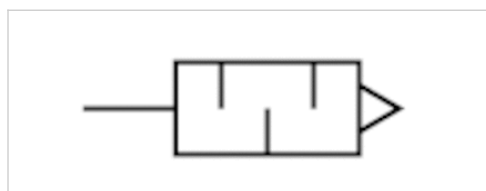


# Silencers, series SI1

- Polyethylene



Working pressure min./max.	0 ... 145 psi
Ambient temperature min./max.	-13 ... 176 °F
Medium	Compressed air
Sound pressure level	88 dB
Weight	0.029 lbs
Comment	Flow characteristic curves can be found under "Diagrams".



## Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827000022	G 1/2	7 Cv	1 piece

Weight per piece

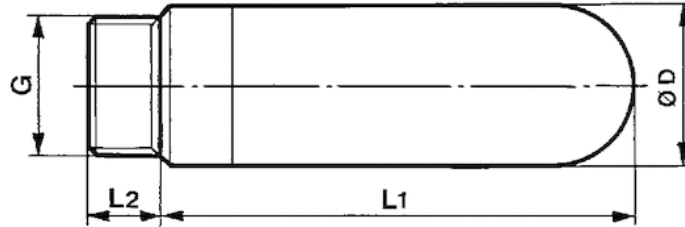
Nominal flow Qn at p1 = 87 psi (absolute) freely discharged. Sound pressure level measured at 87 psi against atmosphere at 3.281 ft. distance.

## Technical information

Material	
Silencers	Polyethylene
Thread	Polyethylene

## Dimensions

### Dimensions

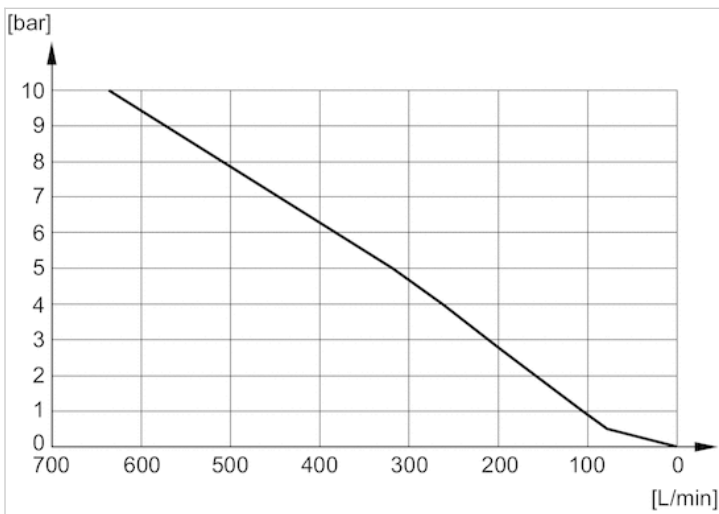


## Dimensions

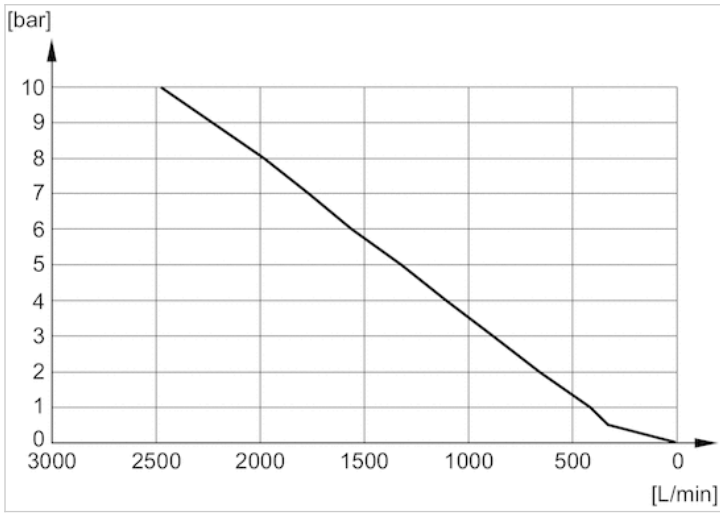
Part No.	Port G	Ø D	L1	L2
1827000022	G 1/2	23.3	66.5	11

## Diagrams

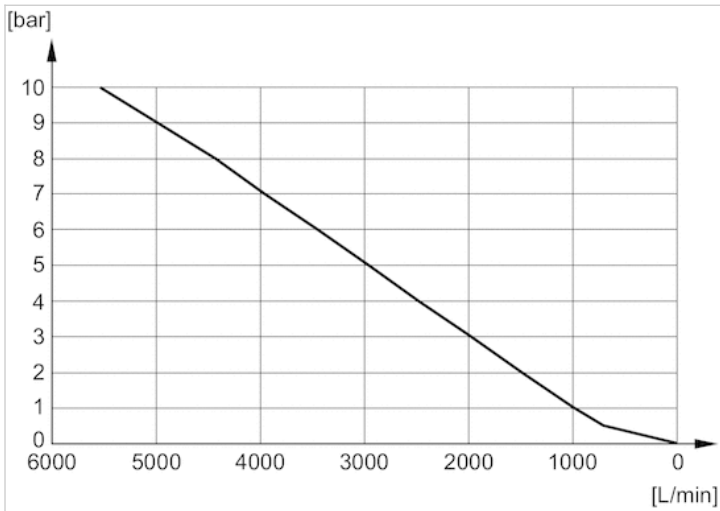
### Flow diagram 1827000018



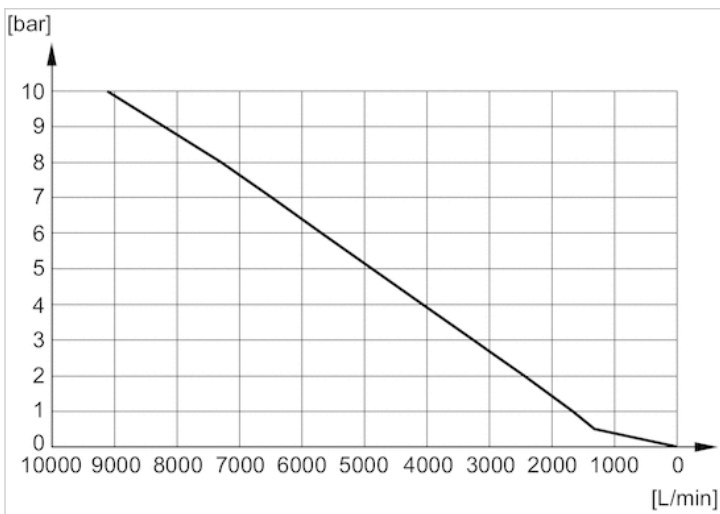
Flow diagram 1827000019



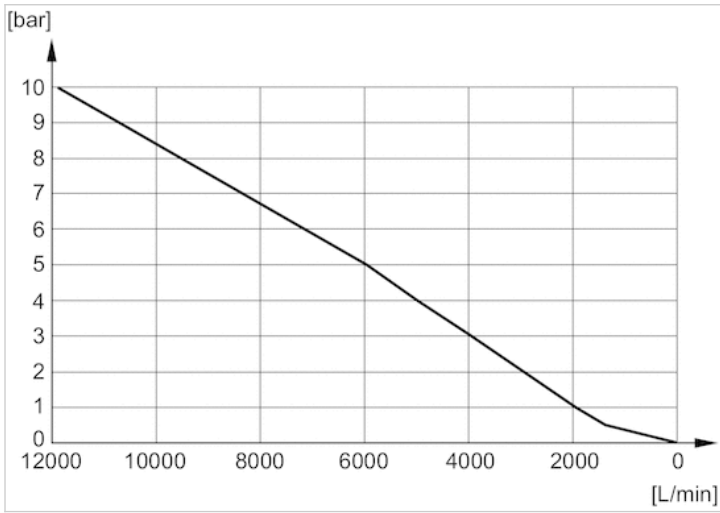
Flow diagram 1827000020



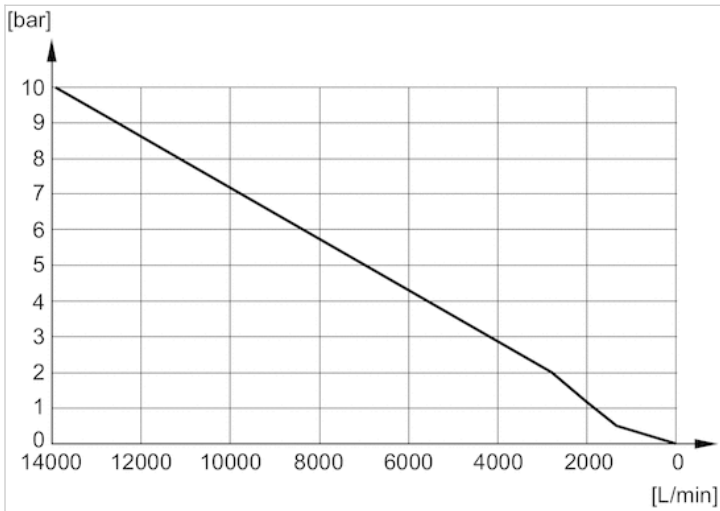
Flow diagram 1827000021



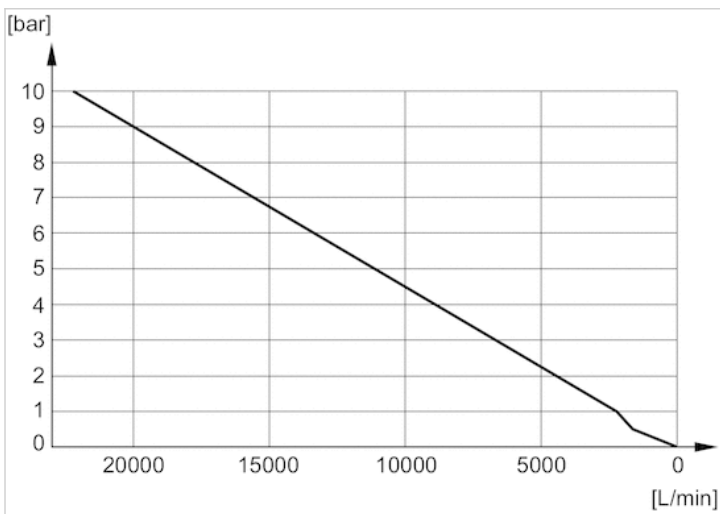
Flow diagram 1827000022



Flow diagram 1827000023



Flow diagram 1827000024

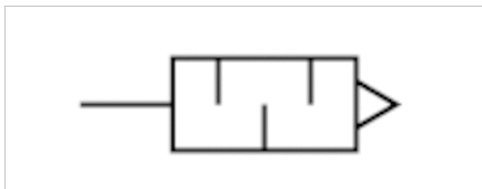


# Silencers, series SI1

- Sintered bronze



Working pressure min./max.	0 ... 145 psi
Ambient temperature min./max.	-13 ... 176 °F
Medium	Compressed air
Sound pressure level	90 dB
Weight	0.176 lbs
Comment	Flow characteristic curves can be found under "Diagrams".



## Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827000003	G 1/2	7.1 Cv	2 piece

Weight per piece

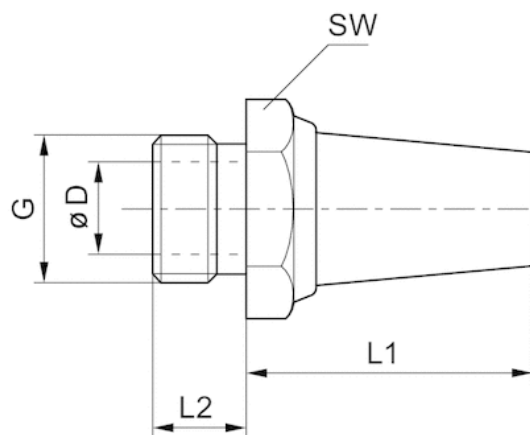
Nominal flow Qn at p1 = 87 psi (absolute) freely discharged. Sound pressure level measured at 87 psi against atmosphere at 3.281 ft. distance.

## Technical information

Material	
Silencers	Sintered bronze
Thread	Brass

## Dimensions

### Dimensions

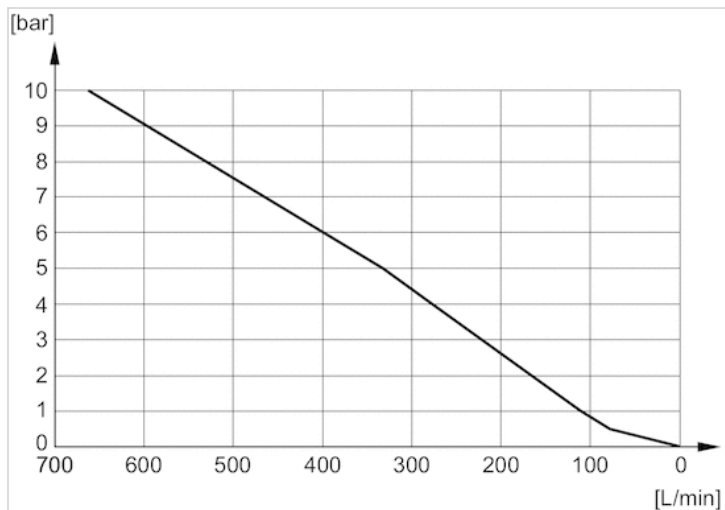


## Dimensions

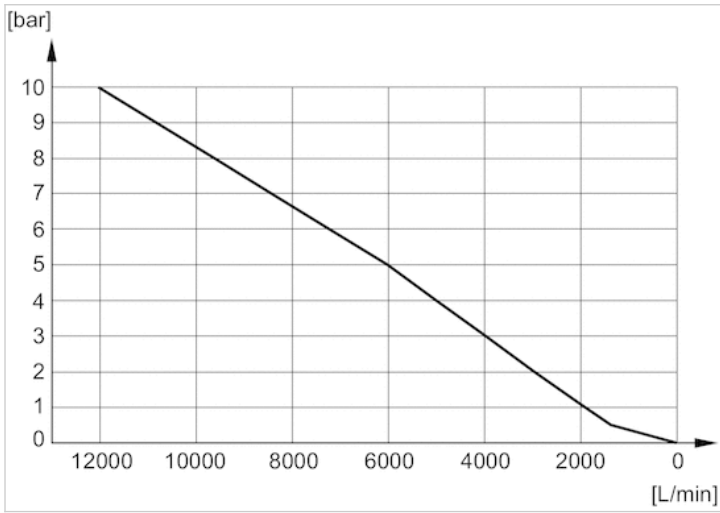
Part No.	Port G	SW	Ø D	L1	L2
1827000003	G 1/2	27	14.5	44	12

## Diagrams

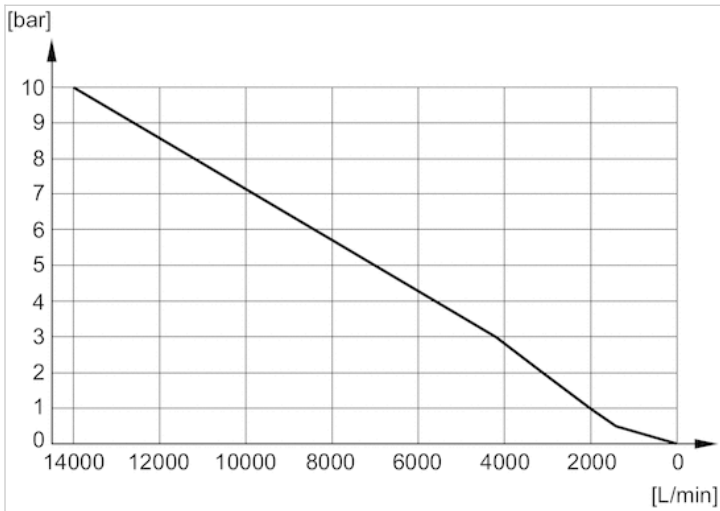
### Flow diagram 1827000006



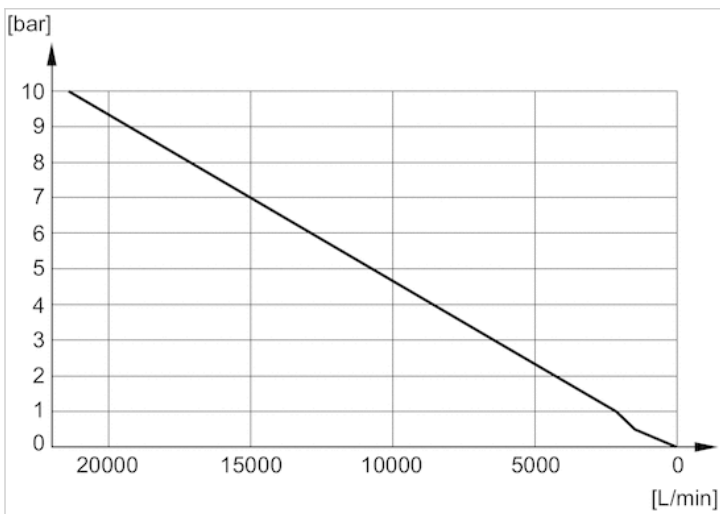
Flow diagram 1827000003



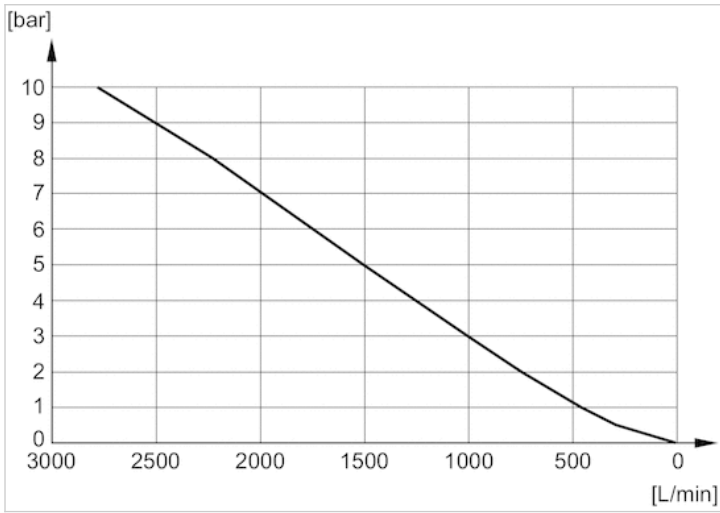
Flow diagram 1827000004



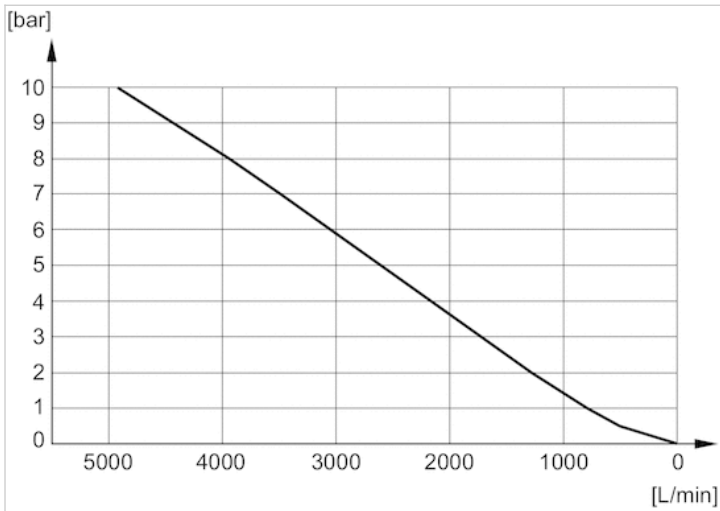
Flow diagram 1827000005



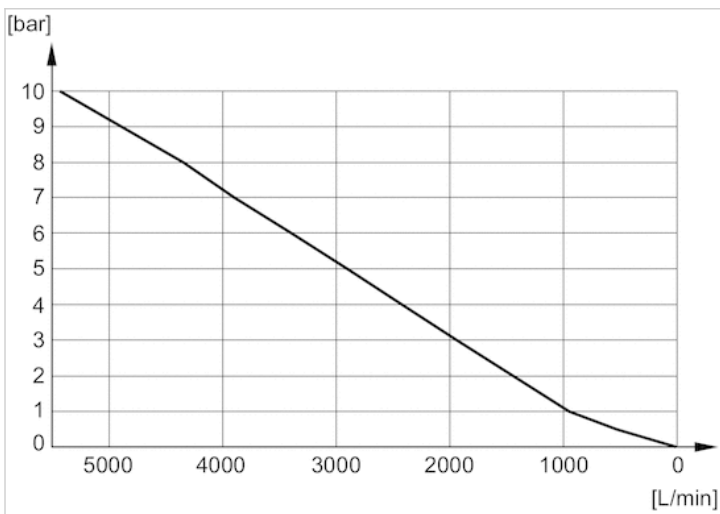
Flow diagram 5324001110



Flow diagram 5324001170

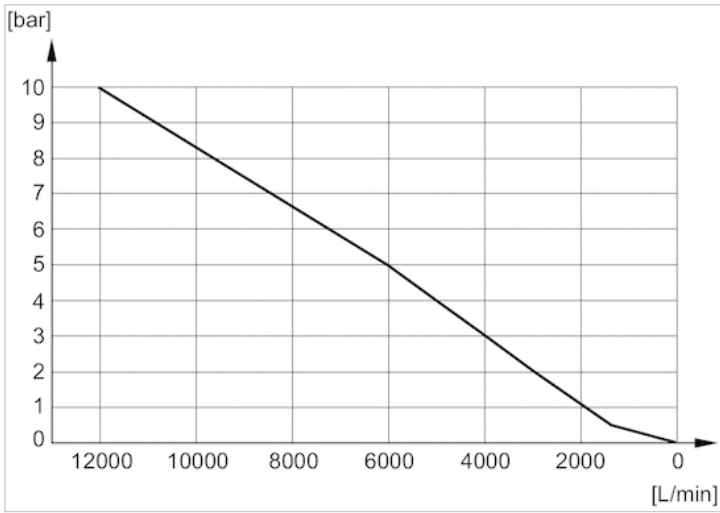


Flow diagram 5324001120

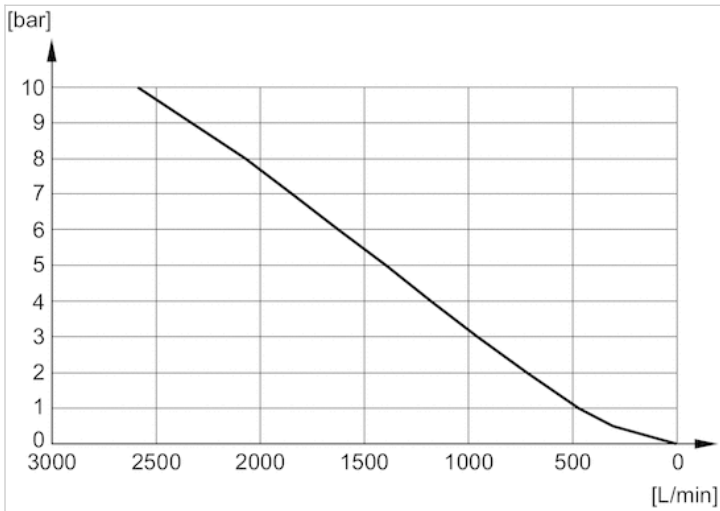




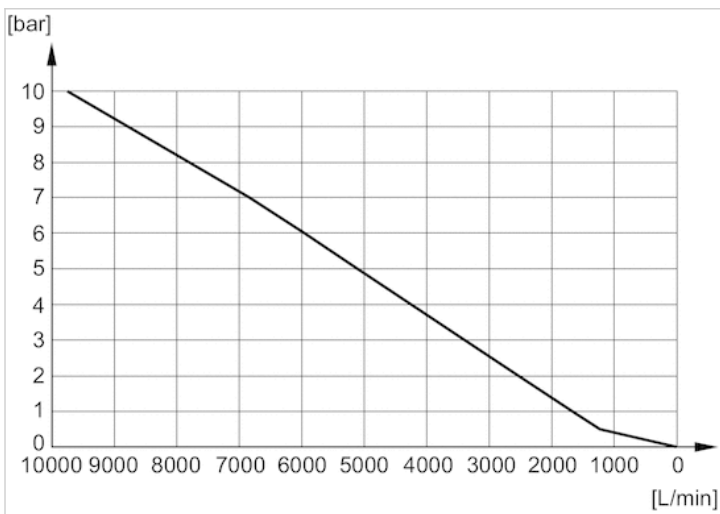
Flow diagram 5324001140



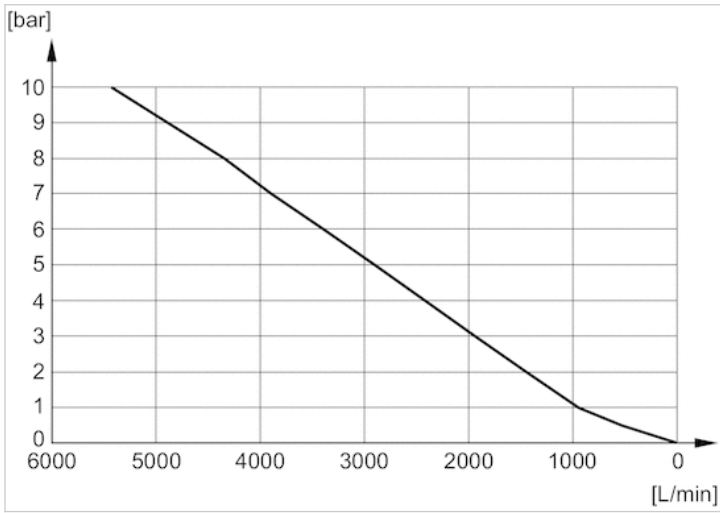
Flow diagram 1827000000



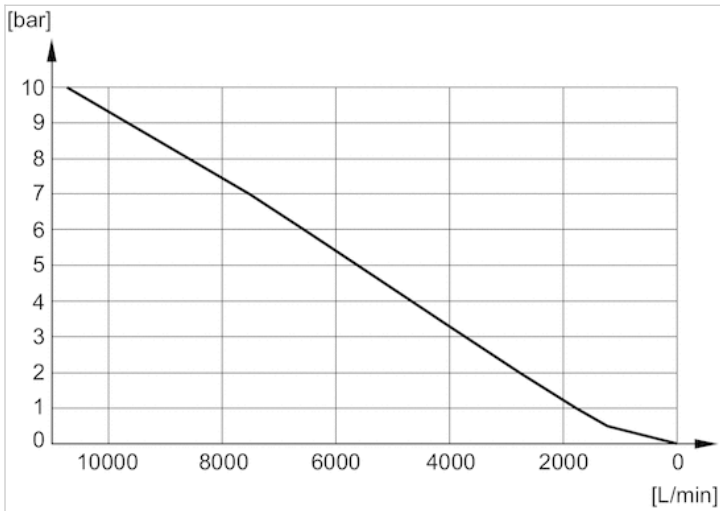
Flow diagram R412004817



Flow diagram 1827000001



Flow diagram 1827000002



# Silencers, series SI1

- Metal braiding



Working pressure min./max.

0 ... 217 psi

Ambient temperature min./max.

14 ... 302 °F

Medium

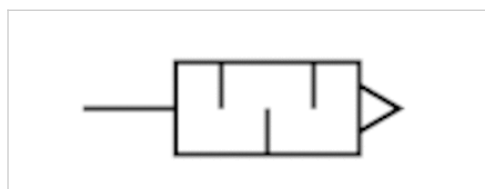
Compressed air

Sound pressure level

104 dB

Comment

Flow characteristic curves can be found under "Diagrams".



## Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
R412010249	G 1	8.5 Cv	2 piece

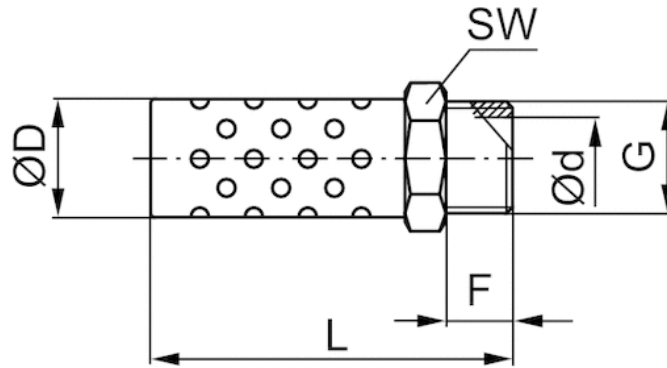
Nominal flow Qn at p1 = 87 psi (absolute) freely discharged. Sound pressure level measured at 87 psi against atmosphere at 3.281 ft. distance.

## Technical information

Material	
Silencers	Metal braiding
Thread	Aluminum

## Dimensions

### Dimensions



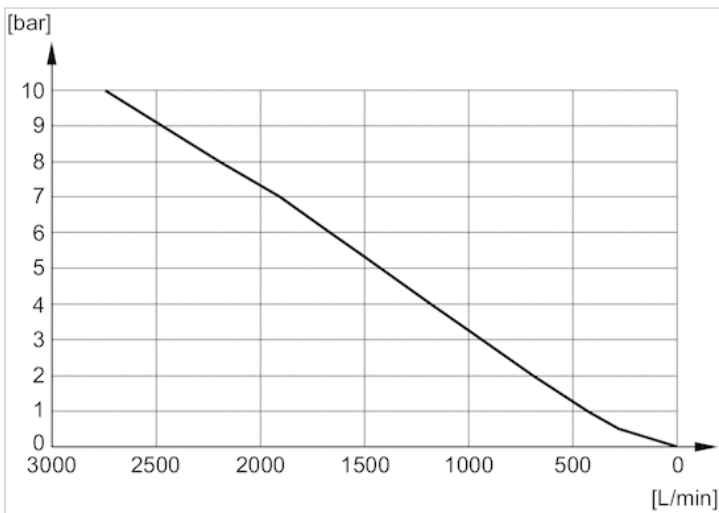
## Dimensions

Part No.	Port G	L	F	D	d	SW
R412010249	G 1	91	15.5	32.3	26	34

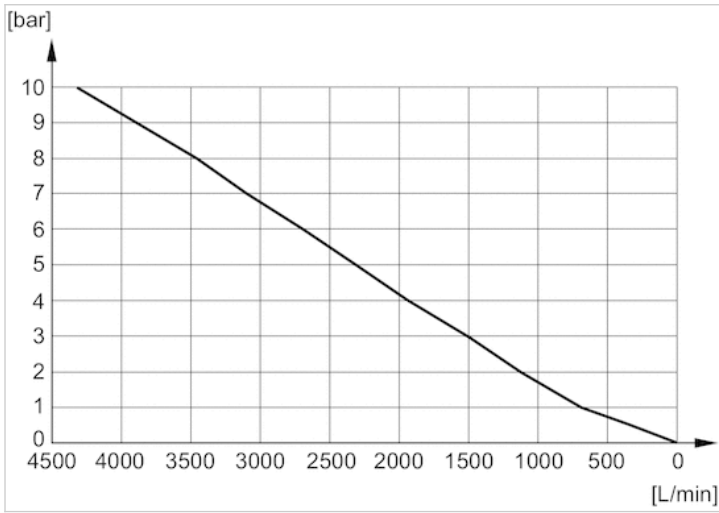
Sound pressure level measured at 6 bar at 1 m distance

## Diagrams

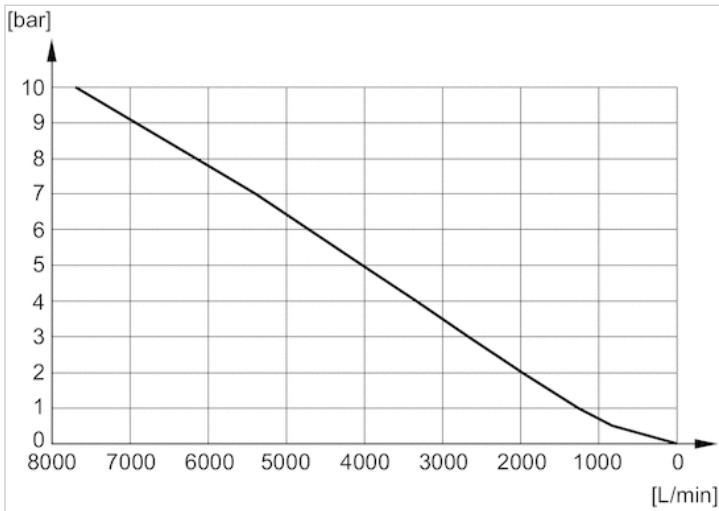
### Flow diagram R412010283



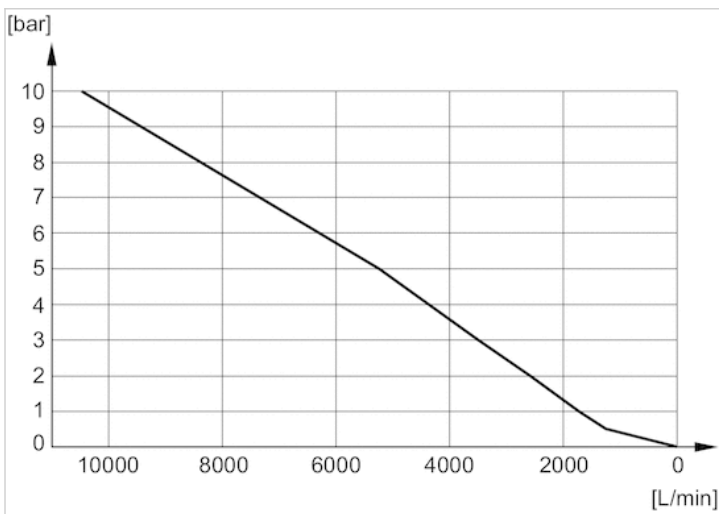
Flow diagram R412010245



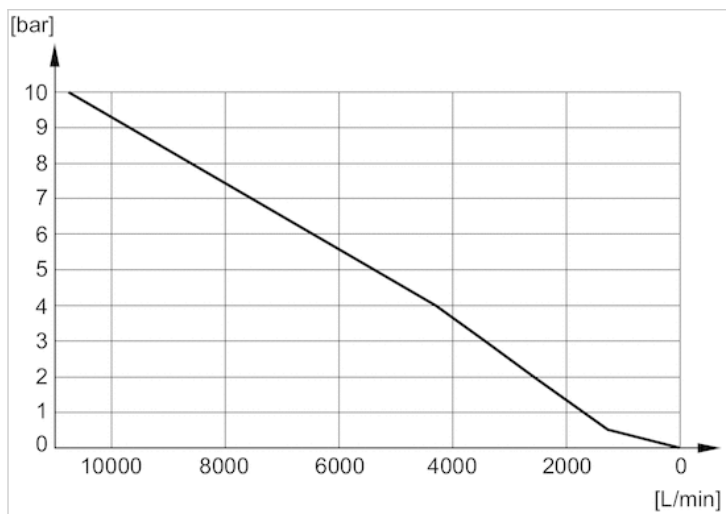
Flow diagram R412010246



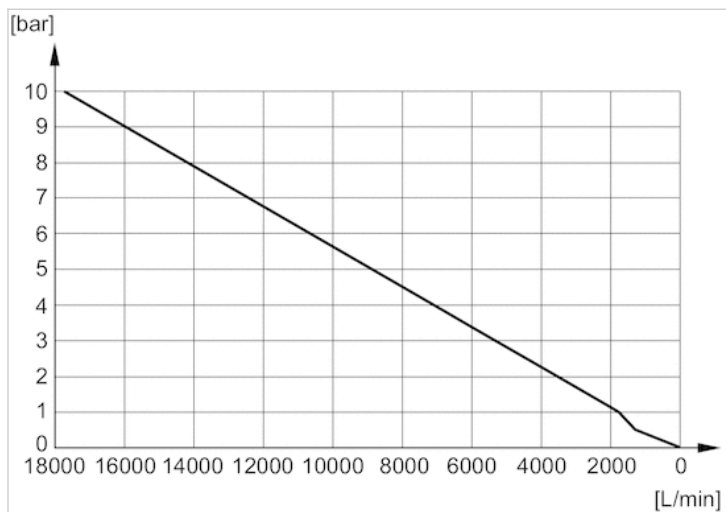
Flow diagram R412010247



Flow diagram R412010248



Flow diagram R412010249



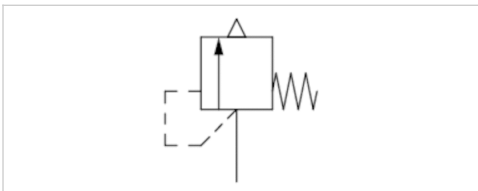
# Series RV1

- Qn 1►2 = 0.687-16.3 Cv
- thread-in
- External thread
- G 1/4, G 3/8, G 1/2
- Uncollected



Version  
 Certificates  
 Working pressure min./max.  
 Opening pressure of valve  
 Ambient temperature min./max.  
 Medium

Poppet valve  
 CE declaration of conformity  
 0 ... 290 psi  
 See table below  
 -4 ... 212 °F  
 Compressed air



## Technical data

Part No.	Port 1	Opening pressure of valve	Flow
			Qn 1►2
R412007521	G 1/4	0.8 bar	0.687 Cv
R412007522	G 1/4	1.5 bar	1.01 Cv
R412007523	G 1/4	2 bar	1.24 Cv
R412007524	G 1/4	3.5 bar	1.9 Cv
R412007525	G 1/4	4 bar	2.12 Cv
R412007526	G 1/4	4.8 bar	2.46 Cv
R412007527	G 1/4	6 bar	2.98 Cv
R412007528	G 1/4	8 bar	3.84 Cv
R412007529	G 1/4	10 bar	4.71 Cv
R412007530	G 1/4	11 bar	5.14 Cv
R412007531	G 1/4	15 bar	6.86 Cv
R412007532	G 1/4	16 bar	7.3 Cv
R412007533	G 3/8	2 bar	2.23 Cv
R412007534	G 3/8	3.7 bar	3.63 Cv
R412007535	G 3/8	4 bar	3.86 Cv
R412007721	G 3/8	5 bar	4.65 Cv
R412007536	G 3/8	6 bar	5.43 Cv
R412007537	G 3/8	6.8 bar	6.06 Cv
R412007538	G 3/8	8 bar	7.01 Cv
R412007539	G 3/8	10 bar	8.58 Cv

Part No.	Port 1	Opening pressure of valve	Flow
			Qn 1►2
R412007540	G 3/8	11 bar	9.37 Cv
R412007541	G 3/8	16 bar	13.3 Cv
R412007542	G 1/2	0.4 bar	1.13 Cv
R412007720	G 1/2	2.9 bar	3.67 Cv
R412007690	G 1/2	3.5 bar	4.25 Cv
R412007691	G 1/2	4 bar	4.73 Cv
R412007692	G 1/2	5 bar	5.7 Cv
R412007699	G 1/2	5.5 bar	6.24 Cv
R412007696	G 1/2	6 bar	6.66 Cv
R412007702	G 1/2	6.5 bar	7.22 Cv
R412007698	G 1/2	7 bar	7.62 Cv
R412007697	G 1/2	8 bar	8.59 Cv
R412007693	G 1/2	8.5 bar	9.16 Cv
R412007694	G 1/2	9 bar	9.55 Cv
R412007700	G 1/2	10 bar	10.51 Cv
R412007701	G 1/2	10.5 bar	11.11 Cv
R412007695	G 1/2	11 bar	11.48 Cv
R412007703	G 1/2	12 bar	12.44 Cv
R412007543	G 1/2	16 bar	16.3 Cv

## Technical information

The specified performance values are achieved at a 10% (PE 14.5 psi , 1.45 psi ) pressure increase, measured with compressed air at 68 °F .

## Technical information

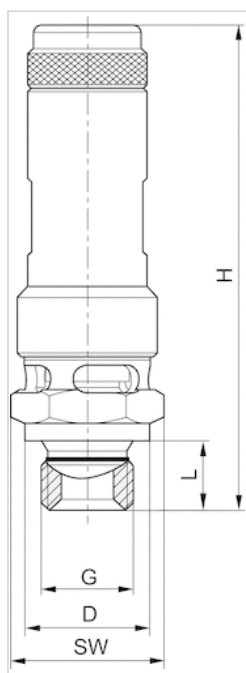
### Material

Housing	Brass
Seals	Fluorocaoutchouc



## Dimensions

### Dimensions



G = connection 1

## Dimensions

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

Part No.	Port G	Ø D	H	L	SW	T [Nm]	NW
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

T = maximum torque

NW = nominal width