

Series CD07 - inch



AVENTICS™ Series CD07 - inch



5/2-directional valve, Series CD07

- 5/2
- Qn = 1200 l/min
- Pipe connection
- Compressed air connection output : 1/4 NPT
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent
- single solenoid
- With spring return
- Pilot : Internal External



Version	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	3 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m ³
Nominal flow Qn	1200 l/min
Nominal flow 1 ► 2	1200 l/min
Nominal flow 2 ► 3	1200 l/min
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	25 ms
Typ. switch-off time	45 ms
Mounting on manifold strip	P-strip PRS strip
Weight	0.57 kg

Technical data

Part No.		MO	Compressed air connection	
			Input	Output
R432016585			1/4 NPT	1/4 NPT
R432016584			1/4 NPT	1/4 NPT
R432016582			1/4 NPT	1/4 NPT
R432016583			1/4 NPT	1/4 NPT
R432016586			1/4 NPT	1/4 NPT
R432016615			1/4 NPT	1/4 NPT
R432016613			1/4 NPT	1/4 NPT
R432016605			1/4 NPT	1/4 NPT
R432016609			1/4 NPT	1/4 NPT
R432016618			1/4 NPT	1/4 NPT

Part No.	Compressed air connection	
	Exhaust	Pilot Input
R432016585	1/4 NPT	-
R432016584	1/4 NPT	-
R432016582	1/4 NPT	-
R432016583	1/4 NPT	-
R432016586	1/4 NPT	-
R432016615	1/4 NPT	1/8 NPT
R432016613	1/4 NPT	1/8 NPT
R432016605	1/4 NPT	1/8 NPT
R432016609	1/4 NPT	1/8 NPT
R432016618	1/4 NPT	1/8 NPT

Part No.	Compressed air connection		Operational voltage	
	Pilot Exhaust	DC	AC 50 Hz	
R432016585	M5	12 V	-	
R432016584	M5	24 V	-	
R432016582	M5	-	110 V	
R432016583	M5	-	230 V	
R432016586	M5	-	24 V	
R432016615	M5	12 V	-	
R432016613	M5	24 V	-	
R432016605	M5	-	110 V	
R432016609	M5	-	230 V	
R432016618	M5	-	24 V	

Part No.	Operational voltage	Voltage tolerance		
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
R432016585	-	-10% / +10%	-	-
R432016584	-	-10% / +10%	-	-
R432016582	110 V	-	-10% / +10%	-10% / +10%
R432016583	230 V	-	-10% / +10%	-10% / +10%
R432016586	24 V	-	-10% / +10%	-10% / +10%
R432016615	-	-10% / +10%	-	-

Part No.	Operational voltage	Voltage tolerance		
		DC	AC 50 Hz	AC 60 Hz
R432016613	-	-10% / +10%	-	-
R432016605	110 V	-	-10% / +10%	-10% / +10%
R432016609	230 V	-	-10% / +10%	-10% / +10%
R432016618	24 V	-	-10% / +10%	-10% / +10%

Part No.	Power consumption		Holding power		Switch-on power
	DC	AC 50 Hz	AC 50 Hz	AC 60 Hz	AC 50 Hz
R432016585	2.7 W	-	-	-	-
R432016584	2.7 W	-	-	-	-
R432016582	-	3.7 VA	3.7 VA	3.7 VA	6.4 VA
R432016583	-	3.7 VA	3.7 VA	3.7 VA	6.4 VA
R432016586	-	3.7 VA	3.7 VA	3.7 VA	6.4 VA
R432016615	2.7 W	-	-	-	-
R432016613	2.7 W	-	-	-	-
R432016605	-	3.7 VA	3.7 VA	3.7 VA	6.4 VA
R432016609	-	3.7 VA	3.7 VA	3.7 VA	6.4 VA
R432016618	-	3.7 VA	3.7 VA	3.7 VA	6.4 VA

Part No.	Switch-on power		Pilot	Compatibility index
	DC	AC 60 Hz		
R432016585	-	-	Internal	13 14
R432016584	-	-	Internal	13 14
R432016582	-	6.4 VA	Internal	13 14
R432016583	-	6.4 VA	Internal	13 14
R432016586	-	6.4 VA	Internal	13 14
R432016615	-	-	External	14
R432016613	-	-	External	14
R432016605	-	6.4 VA	External	14
R432016609	-	6.4 VA	External	14
R432016618	-	6.4 VA	External	14

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

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 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

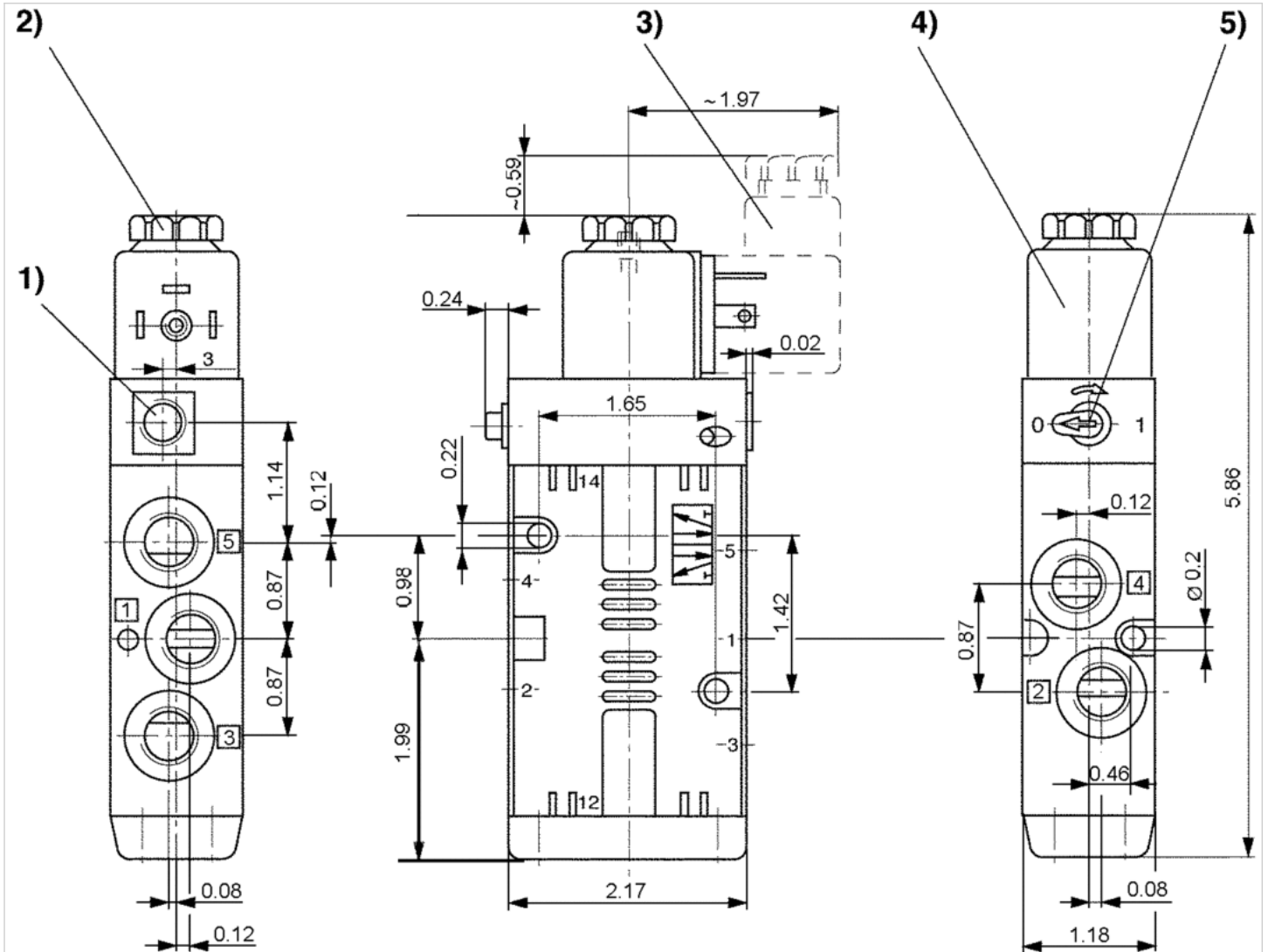
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Housing	Polyamide fiber-glass reinforced Die cast zinc
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions in inches



1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector 4) Coil can be plugged at 45° intervals 5) Manual override


















5/2-directional valve, Series CD07

- 5/2
- Qn = 1200 l/min
- Pipe connection
- Compressed air connection output : 1/4 NPT
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent
- double solenoid
- Pilot : Internal External



Version	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	2 ... 10 bar
Control pressure min./max.	1.5 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m ³
Nominal flow Qn	1200 l/min
Nominal flow 1 ► 2	1200 l/min
Nominal flow 2 ► 3	1200 l/min
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Compatibility index	13 14
Duty cycle	100 %
Typ. switch-on time	21 ms
Typ. switch-off time	21 ms
Mounting on manifold strip	P-strip PRS strip
Weight	0.75 kg

Technical data

Part No.		MO	Compressed air connection	
			Input	Output
R432016587			1/4 NPT	1/4 NPT
R432016589			1/4 NPT	1/4 NPT
R432016593			1/4 NPT	1/4 NPT
R432016591			1/4 NPT	1/4 NPT
R432016595			1/4 NPT	1/4 NPT
R432016616			1/4 NPT	1/4 NPT
R432016604			1/4 NPT	1/4 NPT
R432016608			1/4 NPT	1/4 NPT

Part No.	Compressed air connection	
	Exhaust	Pilot Input
R432016587	1/4 NPT	-
R432016589	1/4 NPT	-
R432016593	1/4 NPT	-
R432016591	1/4 NPT	-
R432016595	1/4 NPT	-
R432016616	1/4 NPT	1/8 NPT
R432016604	1/4 NPT	1/8 NPT
R432016608	1/4 NPT	1/8 NPT

Part No.	Compressed air connection		Operational voltage	
	Pilot Exhaust		DC	
			AC 50 Hz	
R432016587	M5		-	110 V
R432016589	M5		-	230 V
R432016593	M5		12 V	-
R432016591	M5		24 V	-
R432016595	M5		-	24 V
R432016616	M5		12 V	-
R432016604	M5		-	110 V
R432016608	M5		-	230 V

Part No.	Operational voltage	Voltage tolerance		
		DC	AC 50 Hz	AC 60 Hz
R432016587	110 V	-	-10% / +10%	-10% / +10%
R432016589	230 V	-	-10% / +10%	-10% / +10%
R432016593	-	-10% / +10%	-	-
R432016591	-	-10% / +10%	-	-
R432016595	24 V	-	-10% / +10%	-10% / +10%
R432016616	-	-10% / +10%	-	-
R432016604	110 V	-	-10% / +10%	-10% / +10%
R432016608	230 V	-	-10% / +10%	-10% / +10%

Part No.	Power consumption		Holding power		Switch-on power
	DC		AC 50 Hz	AC 60 Hz	AC 50 Hz
R432016587	-		3.7 VA	3.7 VA	6.4 VA

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R432016589	-	3.7 VA	3.7 VA	6.4 VA
R432016593	2.7 W	-	-	-
R432016591	2.7 W	-	-	-
R432016595	-	3.7 VA	3.7 VA	6.4 VA
R432016616	2.7 W	-	-	-
R432016604	-	3.7 VA	3.7 VA	6.4 VA
R432016608	-	3.7 VA	3.7 VA	6.4 VA

Part No.	Switch-on power	Pilot
	AC 60 Hz	
R432016587	6.4 VA	Internal
R432016589	6.4 VA	Internal
R432016593	-	Internal
R432016591	-	Internal
R432016595	6.4 VA	Internal
R432016616	-	External
R432016604	6.4 VA	External
R432016608	6.4 VA	External

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

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 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

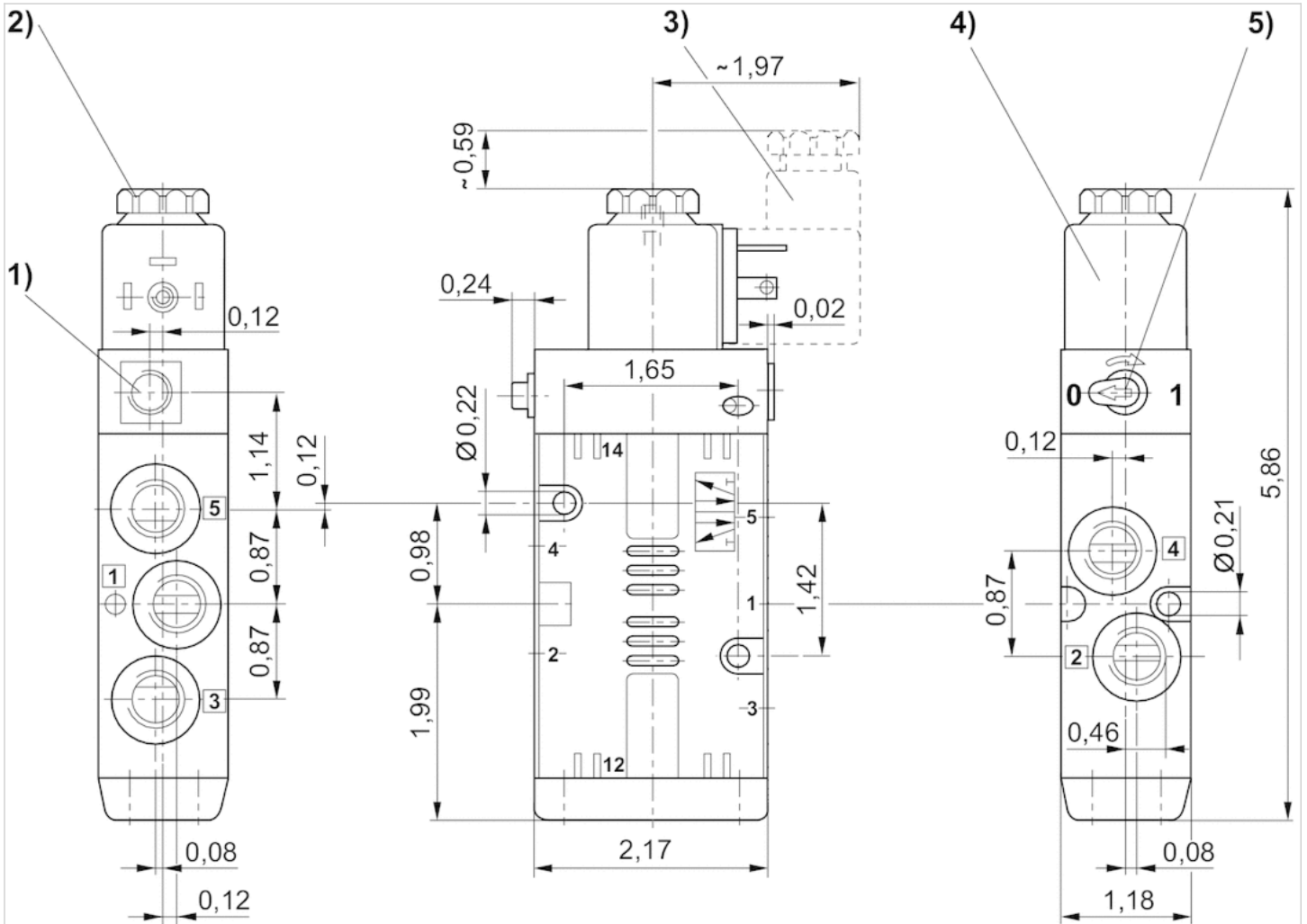
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Technical information

Material	
Housing	Polyamide fiber-glass reinforced Die cast zinc Die cast zinc Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions in inches



1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector 4) Coil can be plugged at 45° intervals 5) Manual override





5/2-directional valve, Series CD07

- 5/2
- Qn = 1200 l/min
- Pipe connection
- Compressed air connection output : 1/4 NPT
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent
- single solenoid
- With spring return
- Pilot : Internal



Version	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	3 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m ³
Nominal flow Qn	1200 l/min
Nominal flow 1 ► 2	1200 l/min
Nominal flow 2 ► 3	1200 l/min
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Compatibility index	13 14
Duty cycle	100 %
Typ. switch-on time	25 ms
Typ. switch-off time	45 ms
Mounting on manifold strip	P-strip PRS strip
Weight	0.57 kg

Technical data

Part No.		MO	Compressed air connection
			Input
R432032544			1/4 NPT
R432032545			1/4 NPT
R432039170	—	—	1/4 NPT

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
R432032544	1/4 NPT	1/4 NPT
R432032545	1/4 NPT	1/4 NPT
R432039170	1/4 NPT	1/4 NPT

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Pilot Exhaust	DC	AC 50 Hz
R432032544	1/8-27 NPTF	-	110 V
R432032545	1/8-27 NPTF	-	230 V
R432039170	M5	24 V	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
R432032544	110 V	-	-10% / +10%	-10% / +10%
R432032545	230 V	-	-10% / +10%	-10% / +10%
R432039170	-	-10% / +10%	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R432032544	-	3.7 VA	3.7 VA	6.4 VA
R432032545	-	3.7 VA	3.7 VA	6.4 VA
R432039170	4.2 W	-	-	-

Part No.	Switch-on power	Pilot
	AC 60 Hz	
R432032544	6.4 VA	Internal
R432032545	6.4 VA	Internal
R432039170	-	-

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

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 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

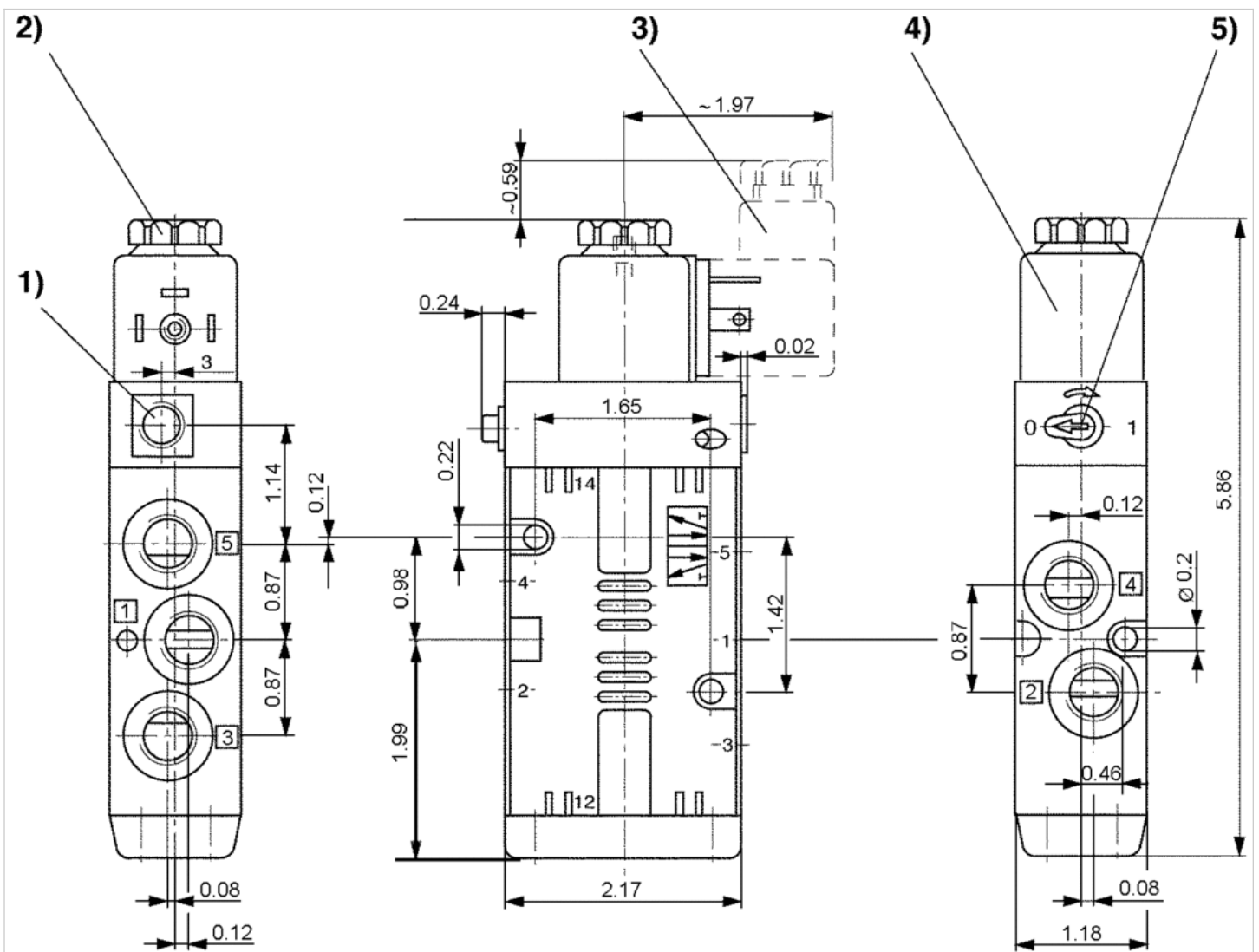
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Technical information

Material	
Housing	Polyamide fiber-glass reinforced Die cast zinc Die cast zinc Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

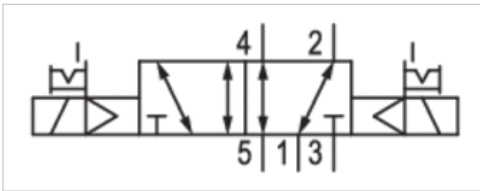
Dimensions in inches



1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector 4) Coil can be plugged at 45° intervals 5) Manual override


5/2-directional valve, Series CD07

- 5/2
- Qn = 1200 l/min
- Pipe connection
- Compressed air connection output : 1/4 NPT
- Electrical connection : Plug, EN 175301-803, form A
- Manual override : with detent
- double solenoid
- Pilot : Internal



Version	Spool valve, positive overlapping
Activation	Electrically
Pilot	Internal
Sealing principle	Soft sealing
Working pressure min./max.	2 ... 10 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m ³
Nominal flow Qn	1200 l/min
Nominal flow 1 ► 2	1200 l/min
Nominal flow 2 ► 3	1200 l/min
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Compatibility index	13 14
Duty cycle	100 %
Typ. switch-on time	21 ms
Typ. switch-off time	21 ms
Mounting on manifold strip	P-strip PRS strip
Weight	0.75 kg

Technical data

Part No.	MO	Compressed air connection	
		Input	Output
R432032546		1/4 NPT	1/4 NPT

Part No.	Compressed air connection	
	Exhaust	Pilot Exhaust
R432032546	1/4 NPT	1/8-27 NPTF

Part No.	Operational voltage	Operational voltage	Voltage tolerance
	AC 50 Hz	AC 60 Hz	AC 50 Hz
R432032546	110 V	110 V	-10% / +10%

Part No.	Voltage tolerance	Holding power	Holding power	Switch-on power
	AC 60 Hz	AC 50 Hz	AC 60 Hz	AC 50 Hz
R432032546	-10% / +10%	3.7 VA	3.7 VA	6.4 VA

Part No.	Switch-on power
	AC 60 Hz
R432032546	6.4 VA

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

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 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

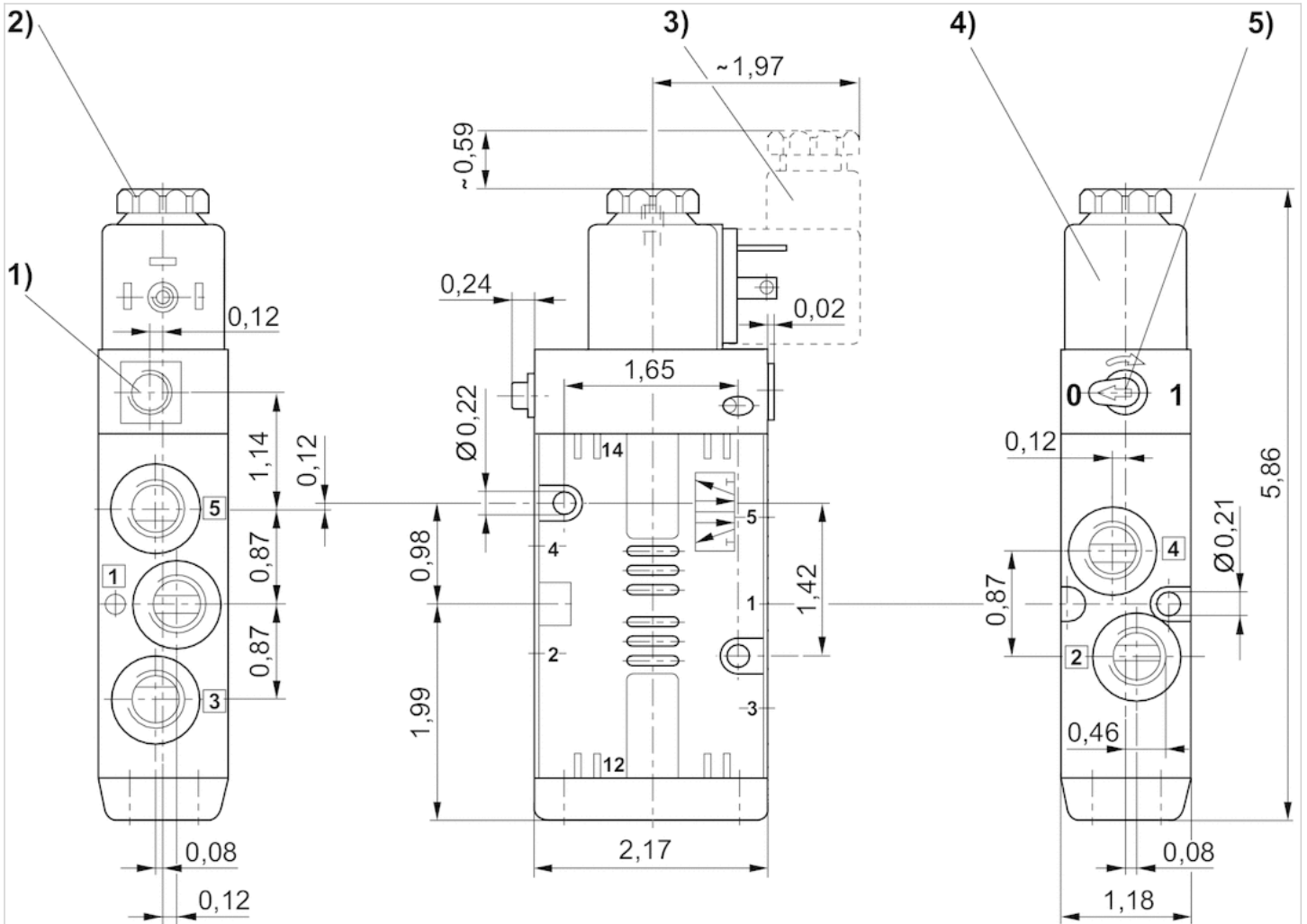
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Technical information

Material	
Housing	Polyamide fiber-glass reinforced Die cast zinc
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions in inches



- 1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector 4) Coil can be plugged at 45° intervals 5) Manual override

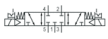
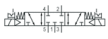

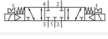

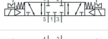

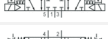

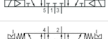

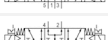

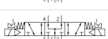

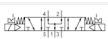





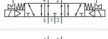

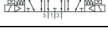



5/3-directional valve, Series CD07

- Qn = 900 l/min
- closed center pressurized center exhausted center
- Pipe connection
- Compressed air connection output : 1/4 NPT
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent
- double solenoid
- With spring return
- Pilot : Internal



Version	Spool valve, positive overlapping
Activation	Electrically
Pilot	Internal
Sealing principle	Soft sealing
Working pressure min./max.	3 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m ³
Nominal flow Qn	900 l/min
Nominal flow 1 ► 2	900 l/min
Nominal flow 2 ► 3	900 l/min
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Compatibility index	13 14
Duty cycle	100 %
Typ. switch-on time	25 ms
Typ. switch-off time	55 ms
Mounting on manifold strip	P-strip PRS strip
Weight	0.72 kg

Technical data

Part No.		MO		Compressed air connection	
				Input	
R432016594			closed center		1/4 NPT
R432016592			closed center		1/4 NPT
R432016588			closed center		1/4 NPT
R432016590			closed center		1/4 NPT
R432016596			closed center		1/4 NPT
R432030384			pressurized center		1/4 NPT
R432016602			pressurized center		1/4 NPT
R432016601			pressurized center		1/4 NPT
R432016603			pressurized center		1/4 NPT
R432016599			exhausted center		1/4 NPT
R432016598			exhausted center		1/4 NPT
R432016597			exhausted center		1/4 NPT
R432016600			exhausted center		1/4 NPT

Part No.	Compressed air connection	
	Output	Exhaust
R432016594	1/4 NPT	1/4 NPT
R432016592	1/4 NPT	1/4 NPT
R432016588	1/4 NPT	1/4 NPT
R432016590	1/4 NPT	1/4 NPT
R432016596	1/4 NPT	1/4 NPT
R432030384	1/4 NPT	1/4 NPT
R432016602	1/4 NPT	1/4 NPT
R432016601	1/4 NPT	1/4 NPT
R432016603	1/4 NPT	1/4 NPT
R432016599	1/4 NPT	1/4 NPT
R432016598	1/4 NPT	1/4 NPT
R432016597	1/4 NPT	1/4 NPT
R432016600	1/4 NPT	1/4 NPT

Part No.	Compressed air connection		Operational voltage	
	Pilot	Exhaust	DC	AC 50 Hz
R432016594	M5		12 V	-
R432016592	M5		24 V	-
R432016588	M5		-	110 V
R432016590	M5		-	230 V
R432016596	M5		-	24 V
R432030384	M5		12 V	-
R432016602	M5		24 V	-
R432016601	M5		-	110 V
R432016603	M5		-	24 V
R432016599	M5		12 V	-
R432016598	M5		24 V	-
R432016597	M5		-	110 V
R432016600	M5		-	24 V

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
		DC	AC 50 Hz	AC 60 Hz
R432016594	-	-10% / +10%	-	-
R432016592	-	-10% / +10%	-	-
R432016588	110 V	-	-10% / +10%	-10% / +10%
R432016590	230 V	-	-10% / +10%	-10% / +10%
R432016596	24 V	-	-10% / +10%	-10% / +10%
R432030384	-	-10% / +10%	-	-
R432016602	-	-10% / +10%	-	-
R432016601	110 V	-	-10% / +10%	-10% / +10%
R432016603	24 V	-	-10% / +10%	-10% / +10%
R432016599	-	-10% / +10%	-	-
R432016598	-	-10% / +10%	-	-
R432016597	110 V	-	-10% / +10%	-10% / +10%
R432016600	24 V	-	-10% / +10%	-10% / +10%

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R432016594	2.7 W	-	-	-
R432016592	2.7 W	-	-	-
R432016588	-	3.7 VA	3.7 VA	6.4 VA
R432016590	-	3.7 VA	3.7 VA	6.4 VA
R432016596	-	3.7 VA	3.7 VA	6.4 VA
R432030384	2.7 W	-	-	-
R432016602	2.7 W	-	-	-
R432016601	-	3.7 VA	3.7 VA	6.4 VA
R432016603	-	3.7 VA	3.7 VA	6.4 VA
R432016599	2.7 W	-	-	-
R432016598	2.7 W	-	-	-
R432016597	-	3.7 VA	3.7 VA	6.4 VA
R432016600	-	3.7 VA	3.7 VA	6.4 VA

Part No.	Switch-on power
	AC 60 Hz
R432016594	-
R432016592	-
R432016588	6.4 VA
R432016590	6.4 VA
R432016596	6.4 VA
R432030384	-
R432016602	-
R432016601	6.4 VA
R432016603	6.4 VA
R432016599	-
R432016598	-
R432016597	6.4 VA
R432016600	6.4 VA

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

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 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

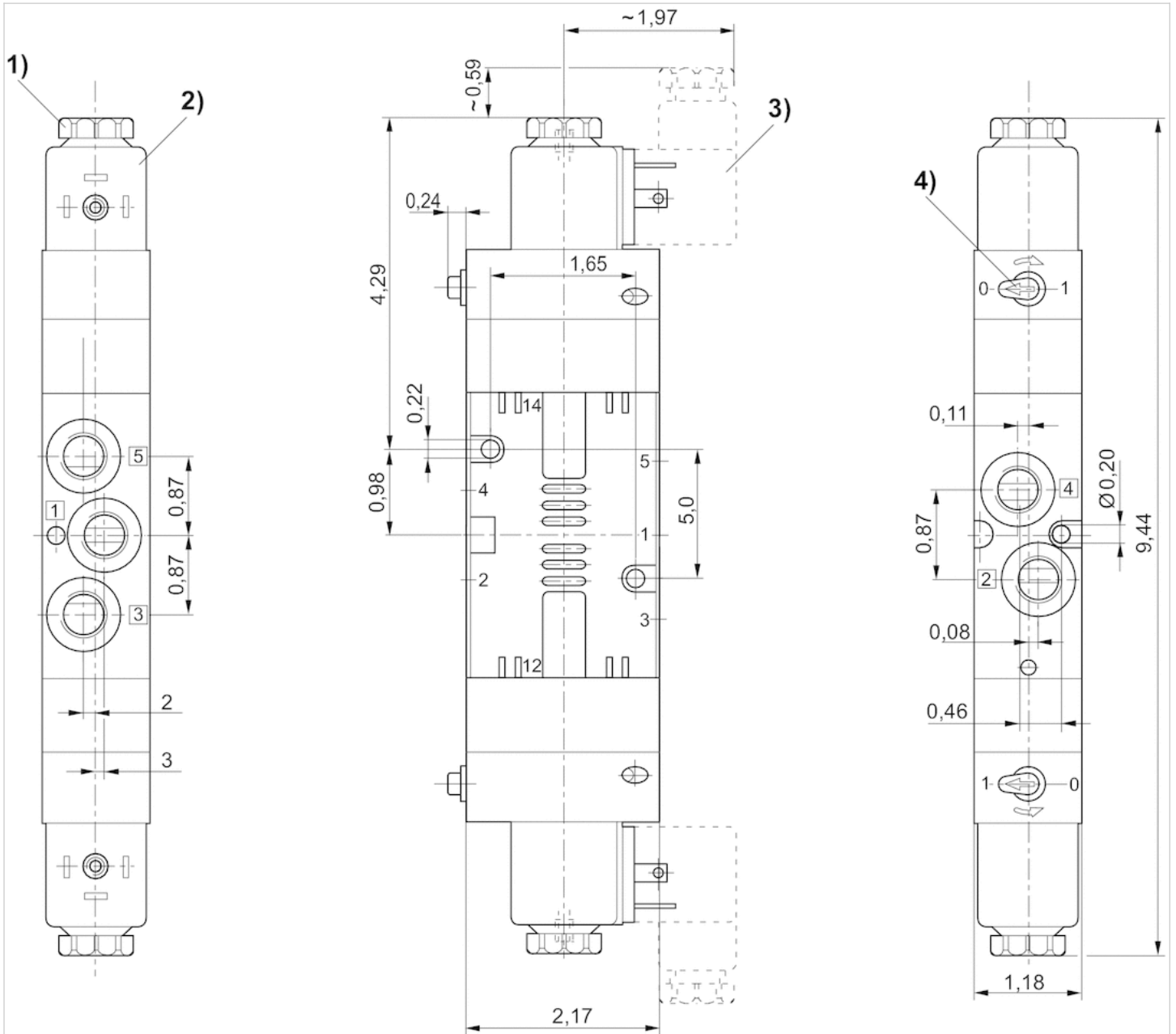
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

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

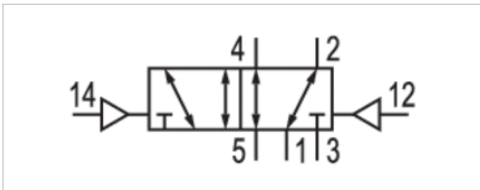
Material	
Housing	Die cast zinc Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions



5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Qn 1►2 = 1200 l/min
- Qn 2►3 = 1200 l/min
- Compressed air connection output 1/4 NPT
- double solenoid
- Pipe connection



Version	Spool valve, positive overlapping
Activation	pneumatically
Sealing principle	Soft sealing
Flow rate value Qn	1200 l/min
Flow rate value Qn 1►2	1200 l/min
Flow rate value Qn 2►3	1200 l/min
Working pressure min./max.	10 bar
Control pressure min./max.	1.5 ... 10 bar
Ambient temperature min./max.	-30 ... 80 °C
Medium temperature min./max.	-30 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m ³
Mounting on manifold strip	P-strip PRS strip
Weight	0.5 kg

Technical data

Part No.	Compressed air connection	
	Input	Output
R432016610	1/4 NPT	1/4 NPT

Part No.	Compressed air connection	
	Exhaust	Pilot control exhaust
R432016610	1/4 NPT	1/8-27 NPTF

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

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 15 °C under ambient and medium temperature and may not exceed 3 °C .
 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).

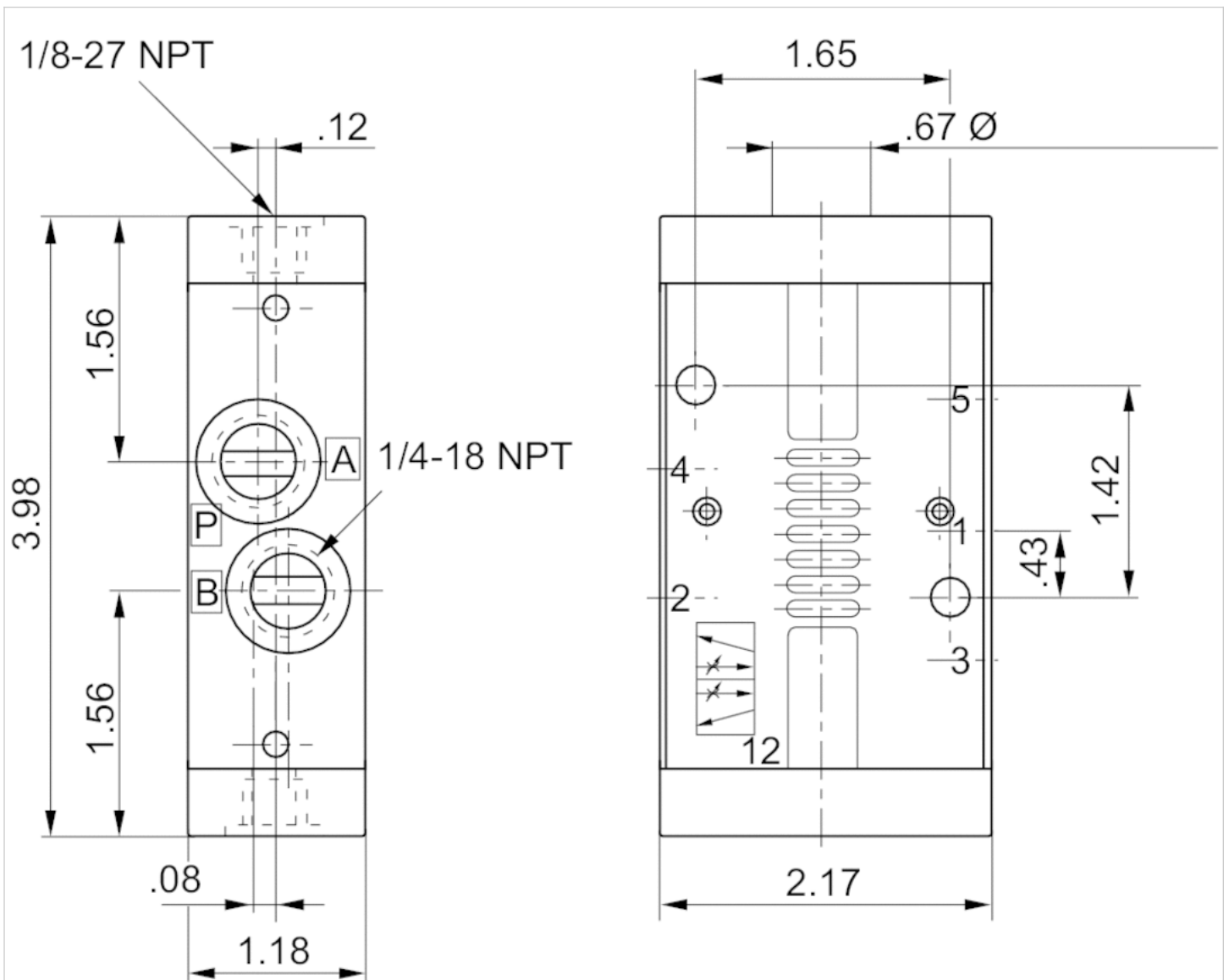
Technical information

Material

Housing	Die cast zinc
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions in inches












5/2-directional valve, Series CD07

- Inch version
- Qn = 1200 l/min
- Qn 1►2 = 1200 l/min
- Qn 2►3 = 1200 l/min
- Compressed air connection output 1/4 NPT
- single solenoid
- Pipe connection
- suitable for ATEX



Version	Spool valve, positive overlapping
Activation	Mechanical
Switching principle	5/2
Sealing principle	Soft sealing
Nominal flow Qn	1200 l/min
Working pressure min./max.	-0.95 ... 10 bar
Control pressure min./max.	See table below
Ambient temperature min./max.	-25 ... 80 °C
Medium temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m ³
Weight	See table below

Technical data

Part No.		Actuating element	Compressed air connection type
R432009214		Button	Internal thread
R432032607		Button	Internal thread
R432032606		Button	Internal thread
R432016621		Hand lever	Internal thread
R432016622		Button	Internal thread
R432016623		Roller	Internal thread
R432016625		Plunger	Internal thread
R432016626		Hand lever, with detent, without detent	Internal thread
R432016627		Rotary lever, with detent	Internal thread

Part No.	Compressed air connection Input	Compressed air connection Output	Compressed air connection Exhaust
R432009214	1/4 NPT	1/4 NPT	1/4 NPT
R432032607	1/4 NPT	1/4 NPT	1/4 NPT
R432032606	1/4 NPT	1/4 NPT	1/4 NPT
R432016621	1/4 NPT	1/4 NPT	1/4 NPT
R432016622	1/4 NPT	1/4 NPT	1/4 NPT
R432016623	1/4 NPT	1/4 NPT	1/4 NPT
R432016625	1/4 NPT	1/4 NPT	1/4 NPT
R432016626	1/4 NPT	1/4 NPT	1/4 NPT
R432016627	1/4 NPT	1/4 NPT	1/4 NPT

Part No.	Compressed air connection Pilot control exhaust	Flow	Flow	Operating force min.
		Qn 1 ▶ 2	Qn 2▶3	
R432009214	1/8 NPT	1200 l/min	1200 l/min	80 N
R432032607	1/8 NPT	1200 l/min	1200 l/min	80 N
R432032606	1/8 NPT	1200 l/min	1200 l/min	80 N
R432016621	-	1200 l/min	1200 l/min	15 N
R432016622	-	1200 l/min	1200 l/min	70 N
R432016623	-	1200 l/min	1200 l/min	40 N
R432016625	-	1200 l/min	1200 l/min	70 N
R432016626	-	1200 l/min	1200 l/min	20 N
R432016627	-	1200 l/min	1200 l/min	15 N

Part No.	Control pressure min./max.	Material actuating control	Weight	Fig.
R432009214	5 ... 10 bar	Polyoxymethylene	0.54 kg	Fig. 7
R432032607	5 ... 10 bar	Polyoxymethylene	0.54 kg	Fig. 7
R432032606	5 ... 10 bar	Polyoxymethylene	0.54 kg	Fig. 7
R432016621	-0.95 ... 10 bar	Polyoxymethylene	0.59 kg	Fig. 4
R432016622	-0.95 ... 10 bar	Polyoxymethylene	0.54 kg	Fig. 6
R432016623	-0.95 ... 10 bar	Stainless steel	0.59 kg	Fig. 2
R432016625	-0.95 ... 10 bar	Stainless steel	0.54 kg	Fig. 1
R432016626	-0.95 ... 10 bar	Polyoxymethylene	0.62 kg	Fig. 3
R432016627	-0.95 ... 10 bar	Polyoxymethylene	0.64 kg	Fig. 5

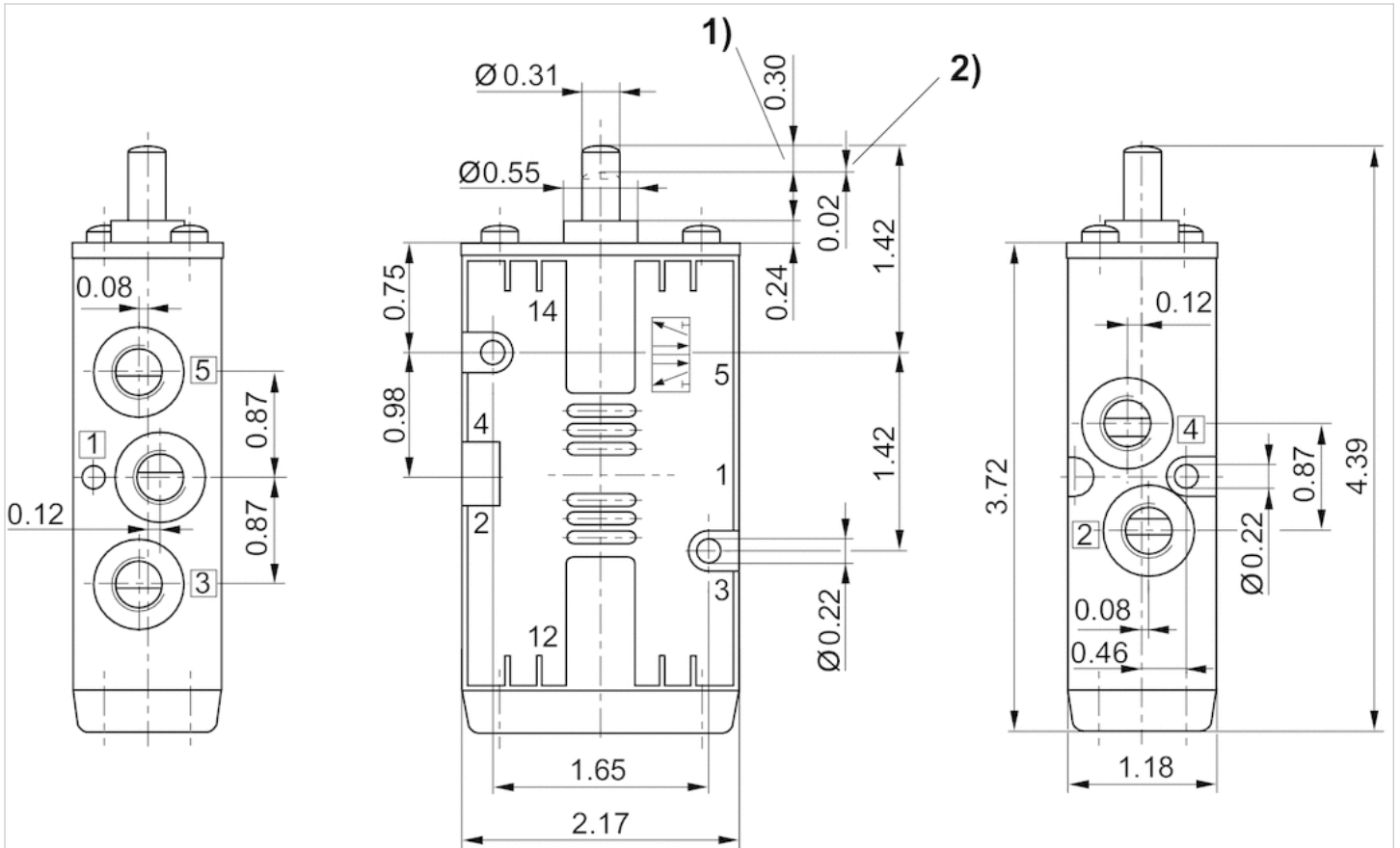
Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Technical information

Material	
Housing	Die cast zinc Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber
Actuating element	Polyoxymethylene Stainless steel

Dimensions

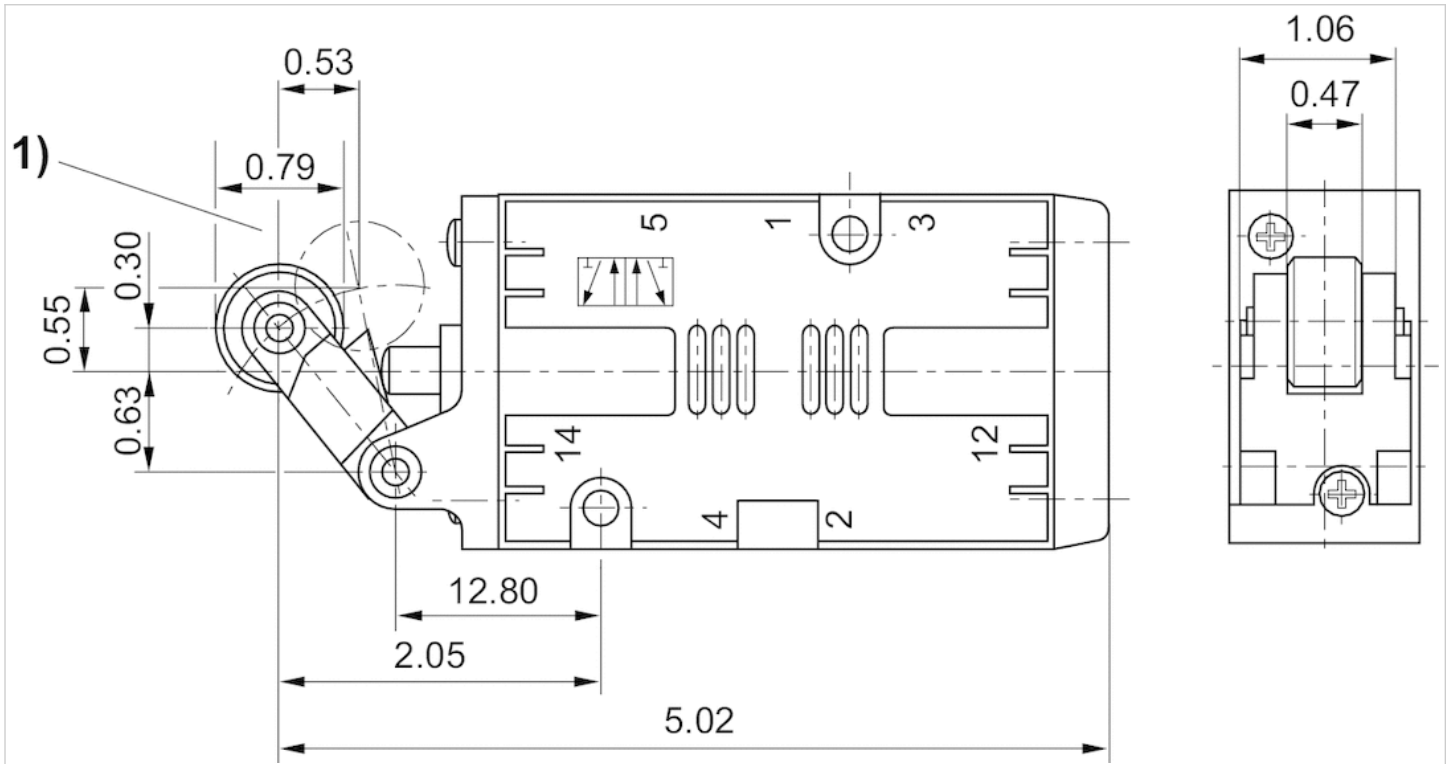
Dimensions in inches, Fig. 1



1) Stroke 2) Overstroke

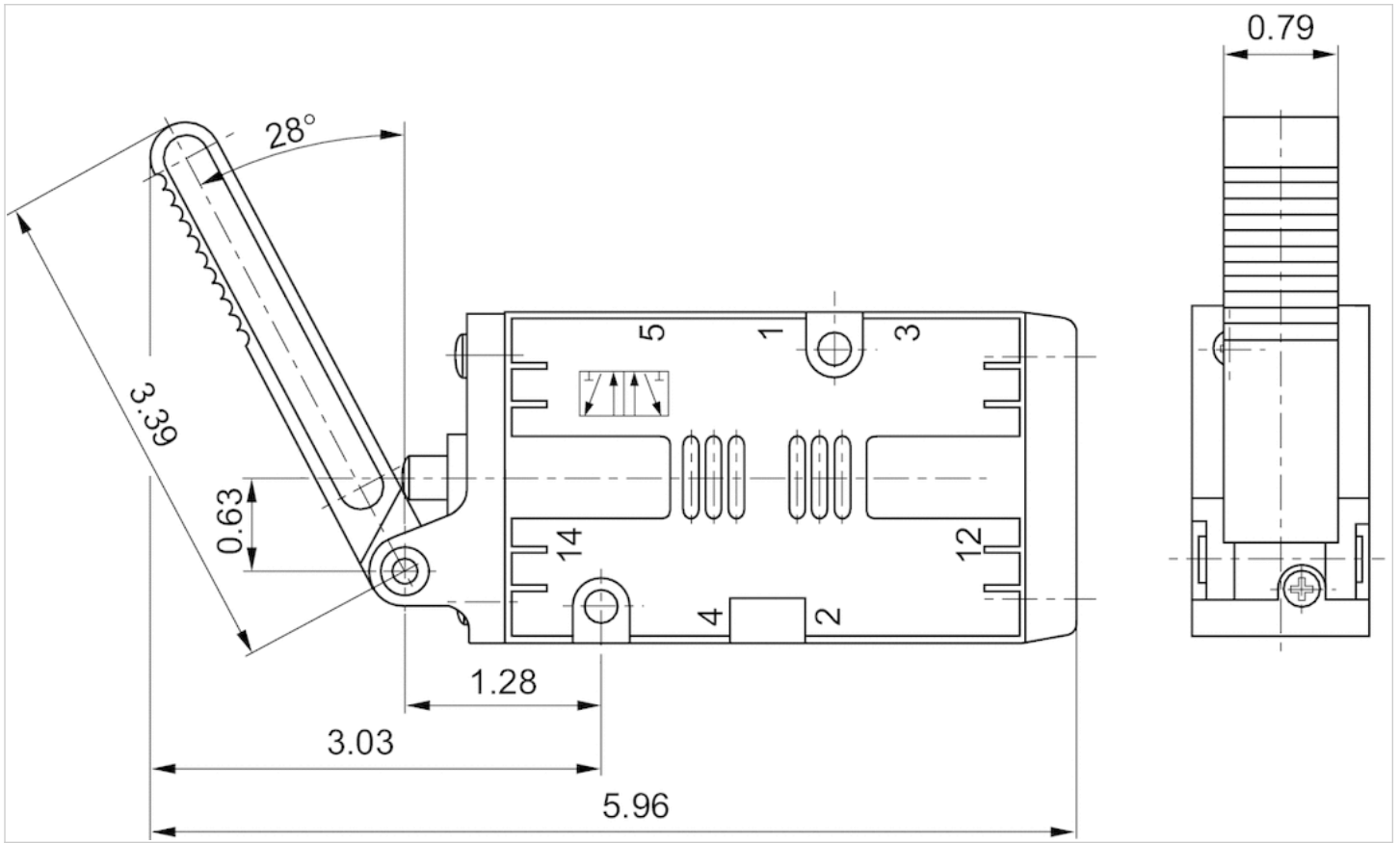
Dimensions of basic valve apply to all types of actuation.

Dimensions in inches, Fig. 2

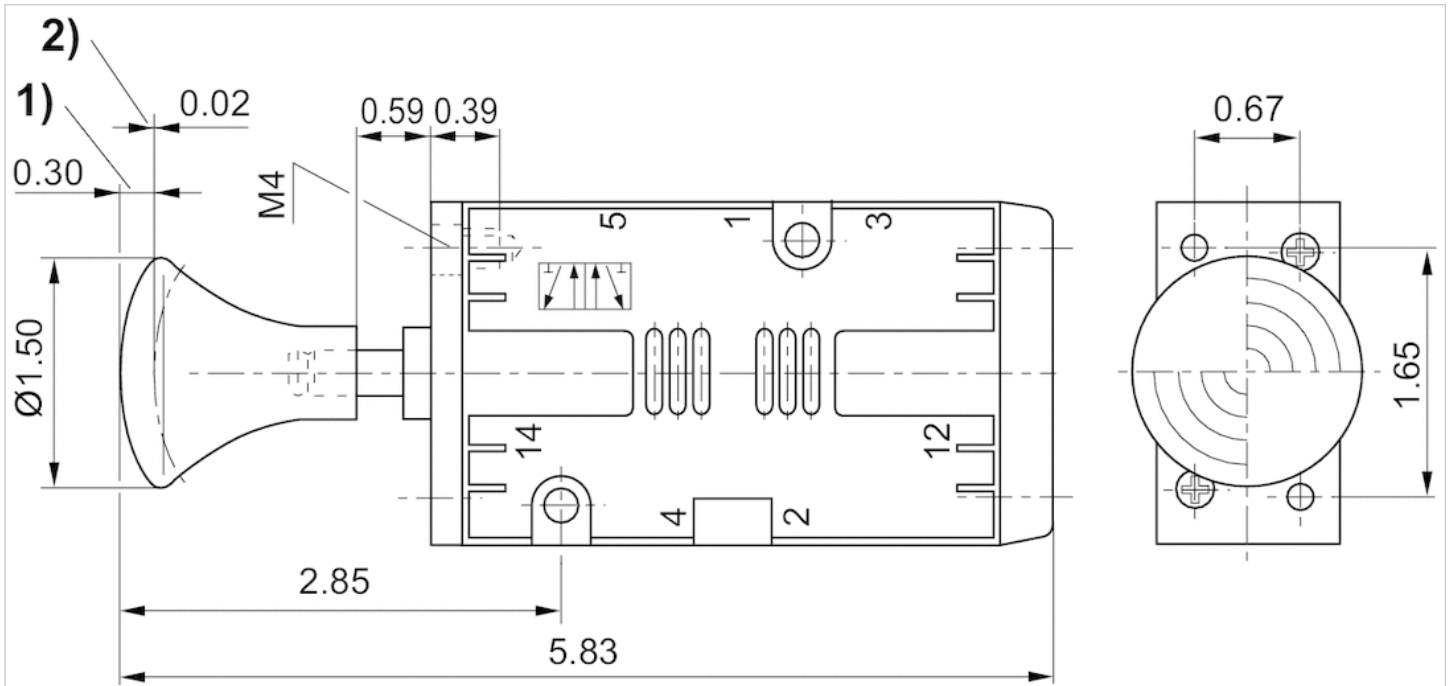


1) approach angle of rollers max. 30°

Dimensions in inches, Fig. 4



Dimensions in inches, Fig. 6



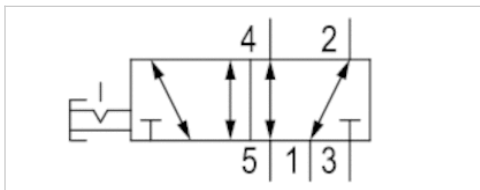
1) Stroke 2) Overstroke

5/2-directional valve, Series CD07

- Inch version
- Qn = 1200 l/min
- Qn 1▶2 = 1200 l/min
- Qn 2▶3 = 1200 l/min
- Compressed air connection output 1/4 NPT
- single solenoid
- Pipe connection
- suitable for ATEX



Version	Spool valve, positive overlapping
Activation	Mechanical
Actuating element	Pedal
Switching principle	5/2
Sealing principle	Soft sealing
Nominal flow Qn	1200 l/min
Working pressure min./max.	-0.95 ... 10 bar
Ambient temperature min./max.	-30 ... 80 °C
Medium temperature min./max.	-30 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Weight	0.76 kg



Technical data

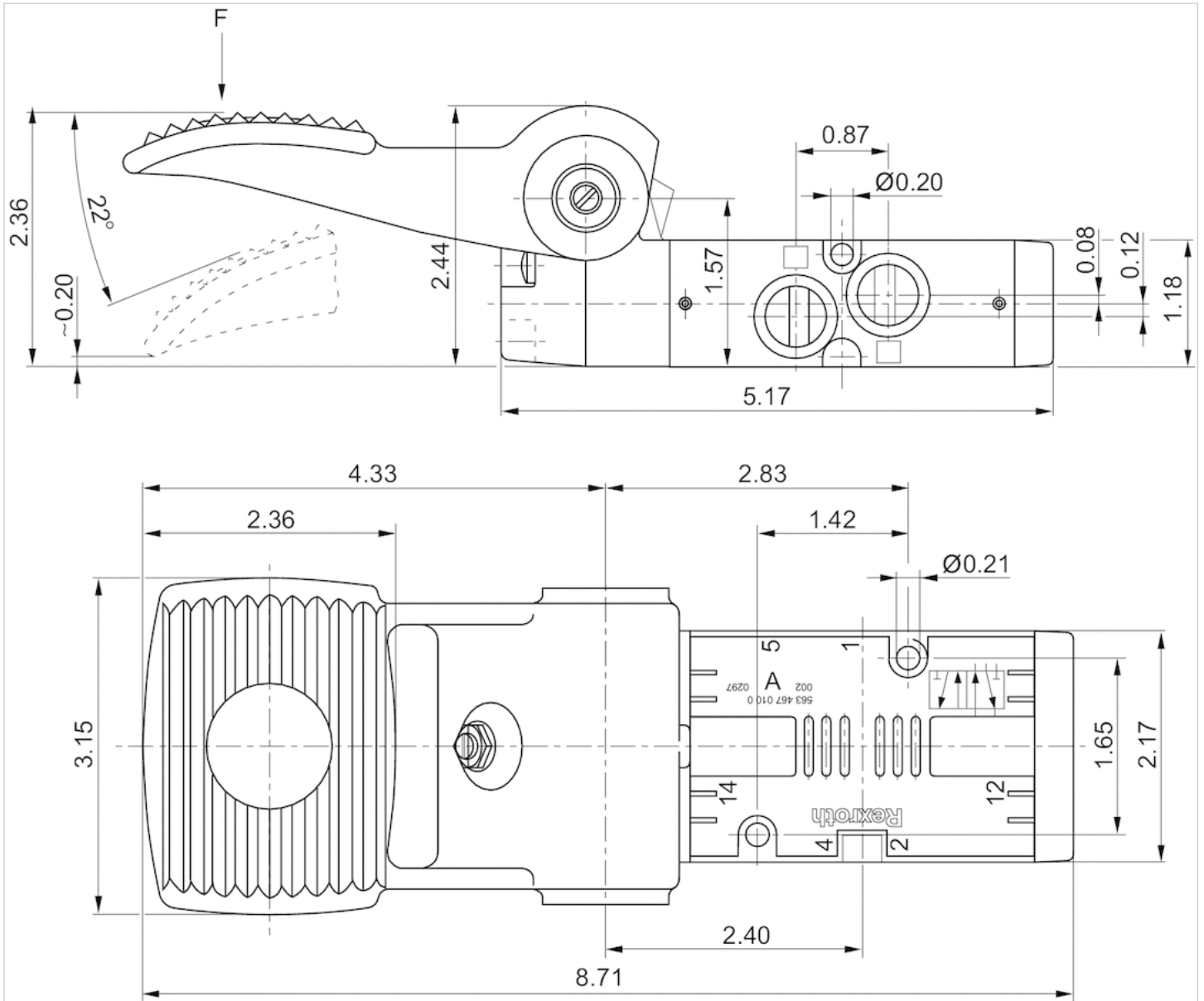
Part No.	Compressed air connection type	Compressed air connection Input	Compressed air connection Output
R432016624	Internal thread	1/4 NPT	1/4 NPT

Part No.	Compressed air connection Exhaust	Flow	
		Qn 1 ▶ 2	Qn 2 ▶ 3
R432016624	1/4 NPT	1200 l/min	1200 l/min

Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions

Dimensions



Valve plug connector, series CON-VP

- Socket, 2+E, angled, 90° Socket, 3+E, angled, 90°




- EN 175301-803

- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 90 °C
Protection class	IP65
Mounting screw tightening torque	0.4 Nm
Weight	0.03 kg

Technical data

Part No.		Electrical connection	Max. current	Contact assignment	suitable cable-Ø min./max
		1			
1834484048		Socket 2+E angled 90°	10 A	2+E	6 / 8 mm
1834484059		Socket 3+E angled 90°	10 A	3+E	6 / 8 mm

Profile seal

Technical information

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

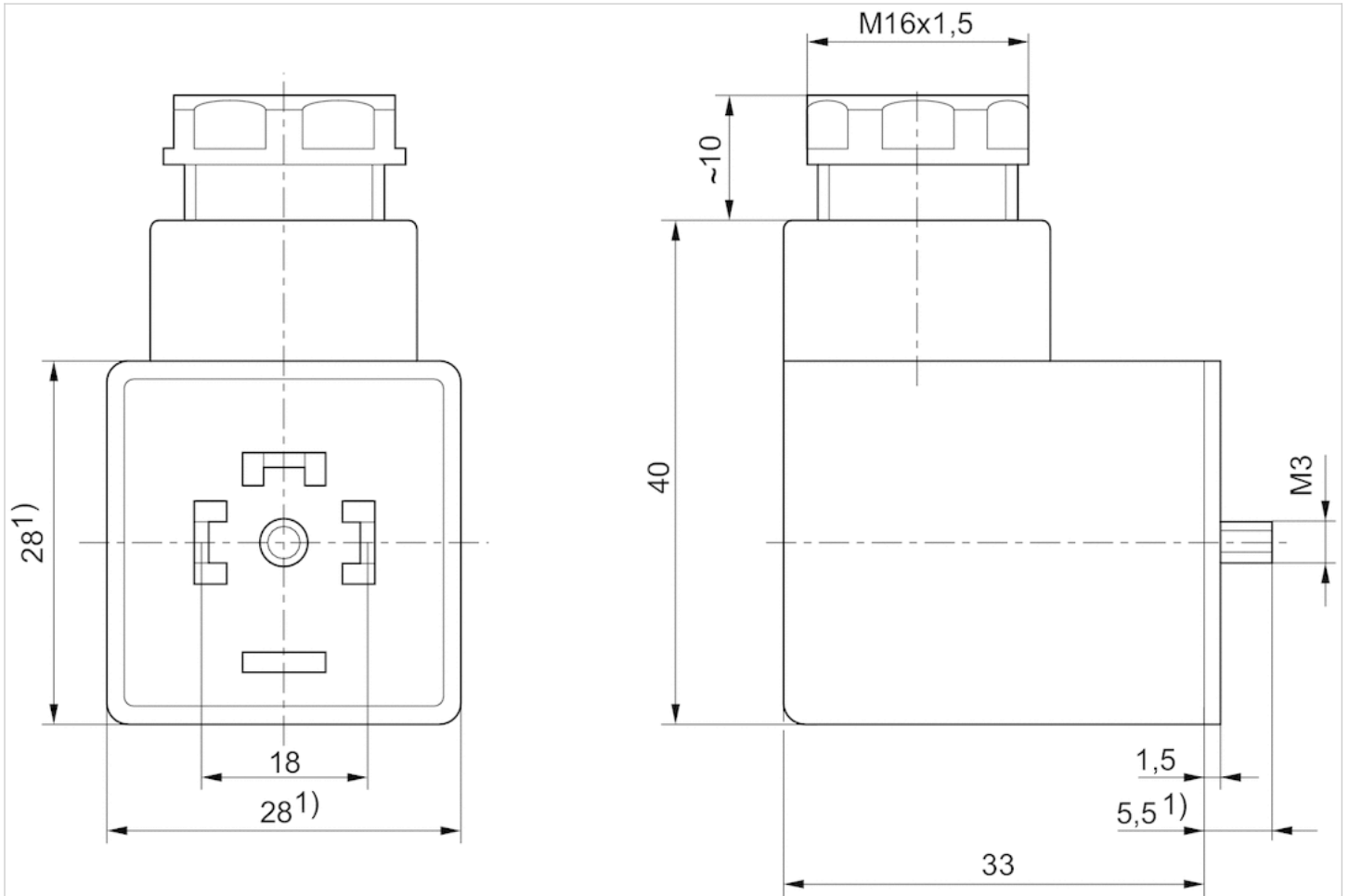
Technical information

Material

Seals	caoutchouc/butadiene caoutchouc
-------	---------------------------------

Dimensions

Dimensions



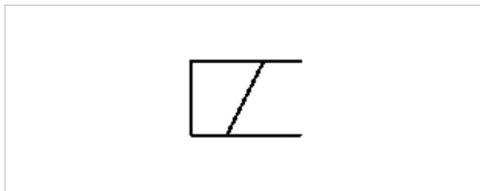
1) Max.

Coil, Series C01

- form A
- Coil width 30 mm
- Power consumption DC 2.1-6.2 W
- Holding power AC 4.2-8 VA
- Switch-on power AC 6.9-11.5 VA



Connector standard	EN 175301-803, form A
electrical connections	Plug, 3-pin
Ambient temperature min./max.	50 °C
Protection class With valve plug connector/plug	IP65
Duty cycle ED	100 %
Weight	See table below



Technical data

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5420507012	12 V	-	-
5420507022	24 V	-	-
5428457022	-	24 V	24 V
5420507032	48 V	-	-
5428457072	-	110 V	110 V
5428457112	-	240 V	240 V
5420897022	24 V	-	-
5428117022	-	24 V	24 V
5428117072	-	110 V	110 V
5428117082	-	230 V	230 V
1824210222	12 V	24 V	24 V
1824210223	24 V	-	-
1824210221	-	110 V	110 V
1824210220	110 V	220 V	230 V

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5420507012	-10% / +10%	-	-	2.1 W
5420507022	-10% / +10%	-	-	2.1 W
5428457022	-	-20% / +10%	-10% / +20%	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5420507032	-10% / +10%	-	-	2.2 W
5428457072	-	-20% / +10%	-10% / +20%	-
5428457112	-	-20% / +10%	-10% / +20%	-
5420897022	-10% / +10%	-	-	2.7 W
5428117022	-	-20% / +10%	-10% / +20%	-
5428117072	-	-20% / +10%	-10% / +20%	-
5428117082	-	-20% / +10%	-10% / +20%	-
1824210222	-10% / +10%	-10% / +10%	-10% / +10%	6.2 W
1824210223	-10% / +10%	-10% / +10%	-10% / +10%	4.4 W
1824210221	-	-10% / +10%	-10% / +10%	-
1824210220	-10% / +10%	-10% / +10%	-10% / +10%	6 W

Part No.	Holding power	Holding power	Switch-on power	Switch-on power
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
5420507012	-	-	-	-
5420507022	-	-	-	-
5428457022	4.2 VA	3.2 VA	6.9 VA	5.6 VA
5420507032	-	-	-	-
5428457072	4.2 VA	3.2 VA	6.9 VA	5.8 VA
5428457112	4.2 VA	3.2 VA	6.9 VA	5.8 VA
5420897022	-	-	-	-
5428117022	5.2 VA	3.9 VA	-	-
5428117072	4.8 VA	3.6 VA	-	-
5428117082	5.6 VA	4.2 VA	-	-
1824210222	7.4 VA	5.2 VA	11.5 VA	9.5 VA
1824210223	-	-	-	-
1824210221	8 VA	6.4 VA	11.5 VA	10.8 VA
1824210220	8 VA	9.1 VA	11.5 VA	12.6 VA

Part No.	Compatibility index	Weight
5420507012	13	0.096 kg
5420507022	13	0.096 kg
5428457022	13	0.096 kg
5420507032	13	0.096 kg
5428457072	13	0.096 kg
5428457112	13	0.096 kg
5420897022	14	0.096 kg
5428117022	14	0.096 kg
5428117072	14	0.096 kg
5428117082	14	0.096 kg
1824210222	15	0.11 kg
1824210223	15	0.11 kg
1824210221	15	0.11 kg
1824210220	15	0.11 kg

Technical information

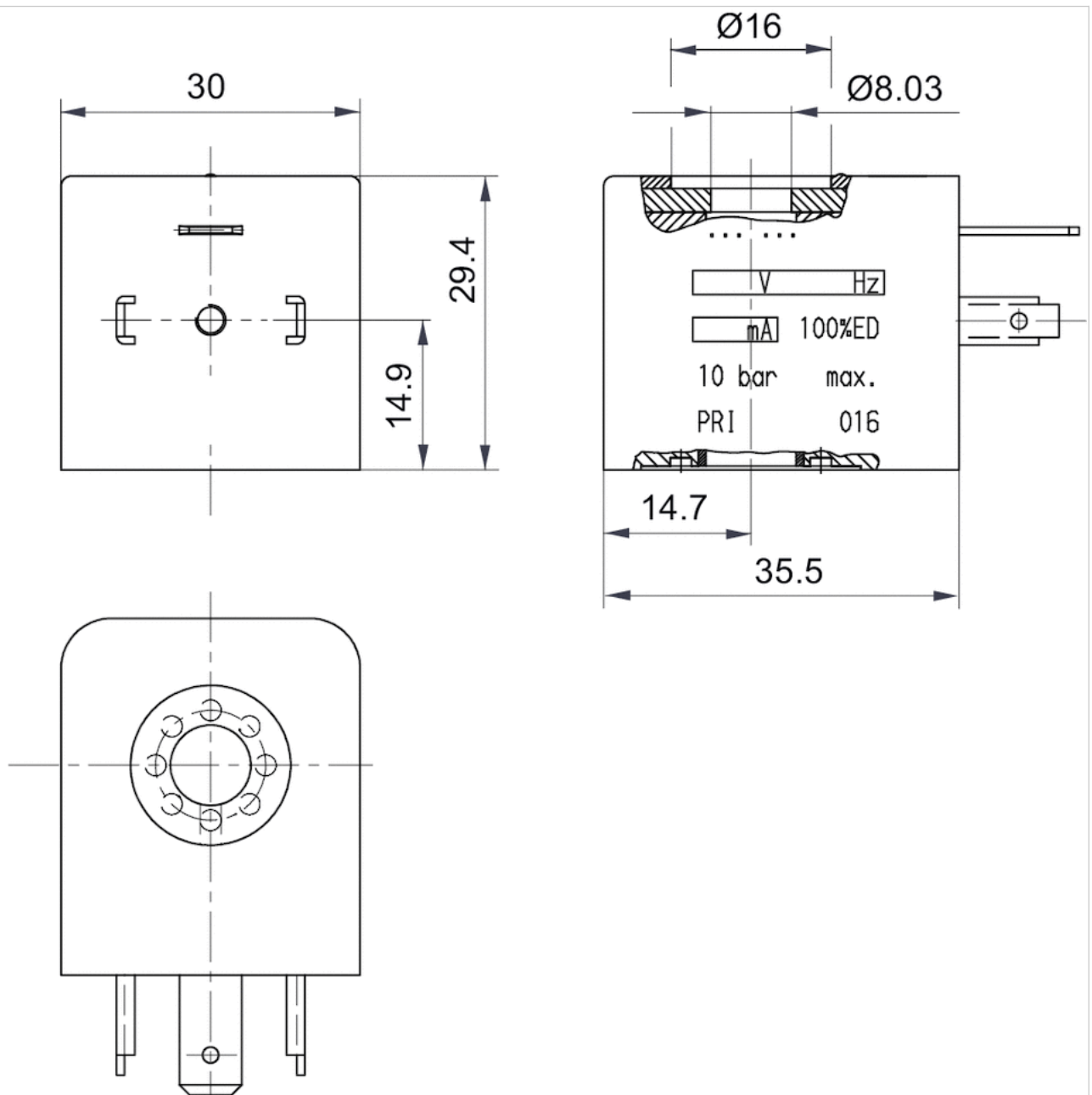
Material

Housing

Thermoplastic elastomer

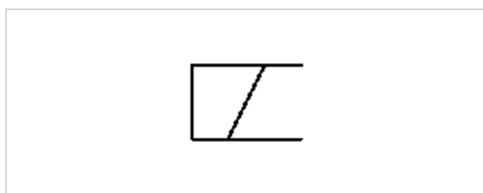
Dimensions

Dimensions



Coil, Series C01

- With valve plug connector
- Coil width 30 mm
- Power consumption DC 2.1 W
- Holding power AC 4-4.1 VA
- Switch-on power AC 4-4.1 VA
- ATEX



Certificates	ATEX
ATEX class G	II 3G Ex nA IIC T4 Gc X
ATEX class D	II 3D Ex tc IIIC T125°C Dc X
Ambient temperature min./max.	-10 ... 50 °C
Protection class	IP65
Duty cycle ED	100 %
Compatibility index	13
Weight	See table below

Technical data

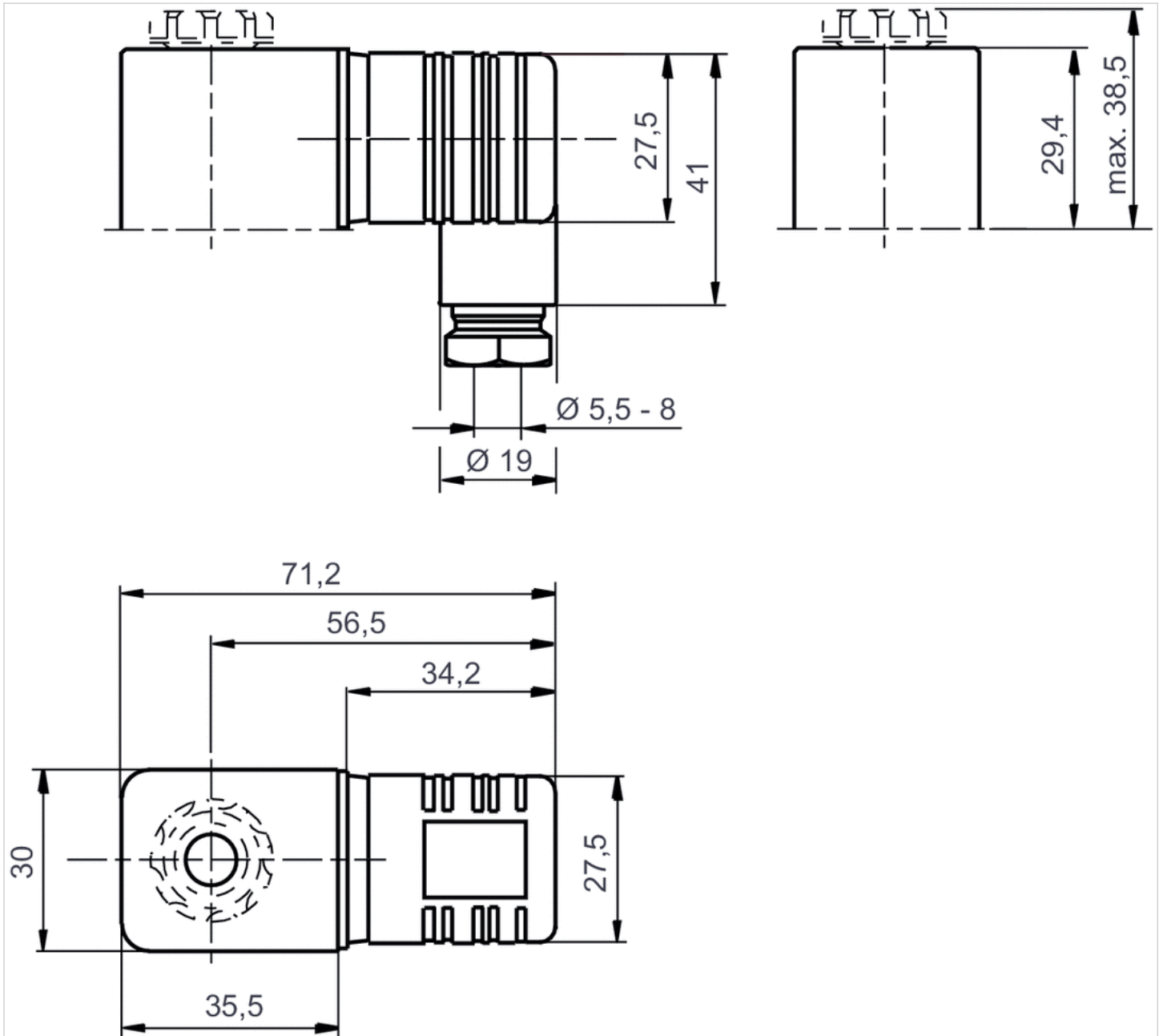
Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412000144	24 V	-	-
R412000145	-	24 V	24 V
R412000146	-	110 V	110 V
R412000147	-	230 V	230 V

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
R412000144	-10% / +10%	-	-	2.1 W
R412000145	-	-20% / +10%	-10% / +20%	-
R412000146	-	-20% / +10%	-10% / +20%	-
R412000147	-	-20% / +10%	-10% / +20%	-

Part No.	Holding power	Switch-on power	Weight
	AC 50 Hz	AC 50 Hz	
R412000144	-	-	0.14 kg
R412000145	4 VA	4 VA	0.134 kg
R412000146	4 VA	4 VA	0.122 kg
R412000147	4.1 VA	4.1 VA	0.137 kg

Dimensions

Dimensions

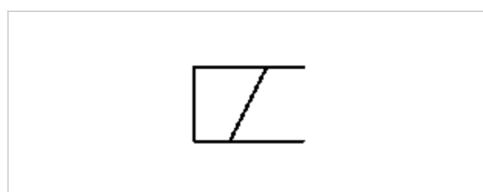


Coil, Series CO1

- Cable with valve plug connector
- Coil width 30 mm
- 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.	-20 ... 50 °C
Protection class	IP65
Duty cycle ED	100 %
Compatibility index	14
Weight	See table below



Technical data

Part No.	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
1827414301	-	24 V	24 V
1827414303	24 V	-	-
1827414304	24 V	-	-

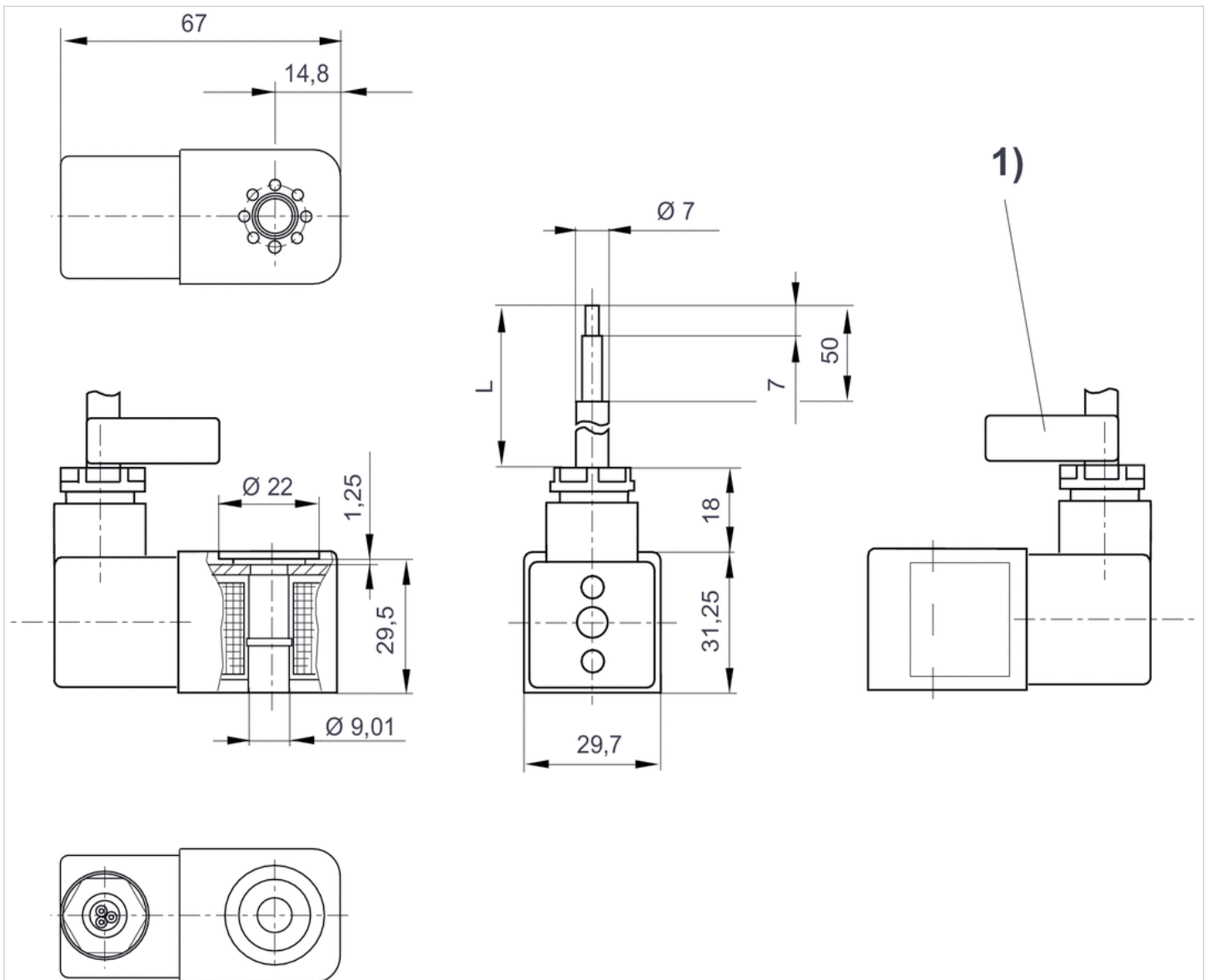
Part No.	Voltage tolerance		Power consumption		Holding power	
	DC	AC 50 Hz	DC	AC 50 Hz	DC	AC 50 Hz
1827414297	-	-10% / +10%	-	3 VA	-	3 VA
1827414298	-	-10% / +10%	-	3 VA	-	3 VA
1827414299	-	-10% / +10%	-	2.9 VA	-	2.9 VA
1827414301	-	-10% / +10%	-	2.9 VA	-	2.9 VA
1827414303	-10% / +10%	-	3.25 W	-	-	-
1827414304	-10% / +10%	-	3.25 W	-	-	-

Part No.	Switch-on power		Cable length	Weight
	AC 50 Hz			
1827414297	3.1 VA		3 m	0.38 kg

Part No.	Switch-on power	Cable length	Weight
	AC 50 Hz		
1827414298	3.1 VA	10 m	0.91 kg
1827414299	3 VA	3 m	0.38 kg
1827414301	3 VA	3 m	0.38 kg
1827414303	-	3 m	0.38 kg
1827414304	-	10 m	0.91 kg

Dimensions

Dimensions



L = cable length

1) Cable ID band with serial number

Adapter, Series CON-VP

- from form A to form C
- Socket, straight, 180°
- Plug, straight, 180°
- unshielded



Ambient temperature min./max.	-25 ... 50 °C
Operational voltage	42 V DC
Protection class	IP65
Protection class	IP65
Weight	0.013 kg

Technical data

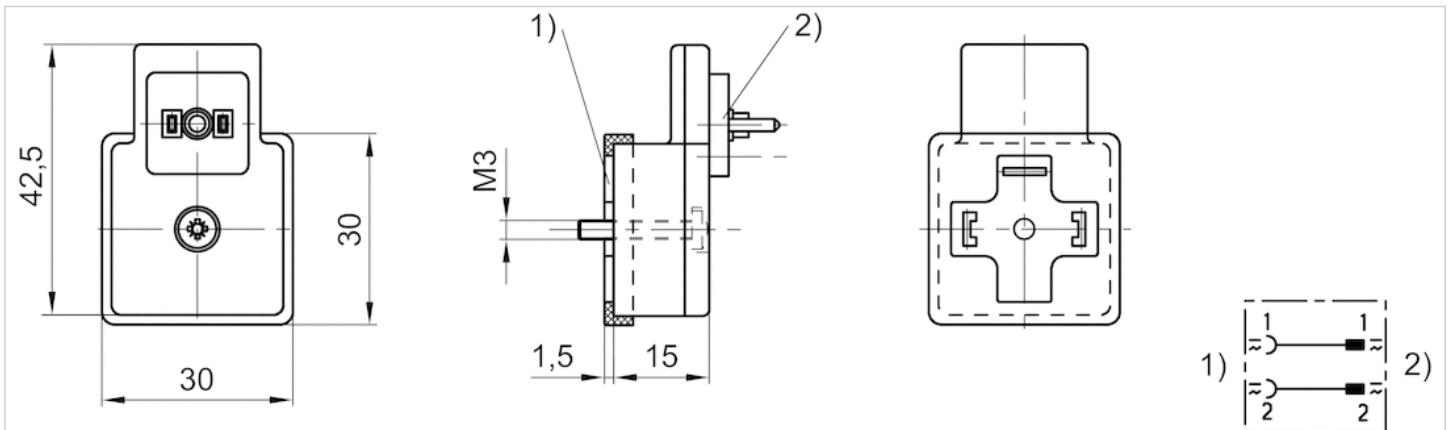
Part No.	Version	Max. current
8946053622	from form A to form C	0.5 A

Technical information

Material	
Housing	Polyamide

Dimensions

Dimensions



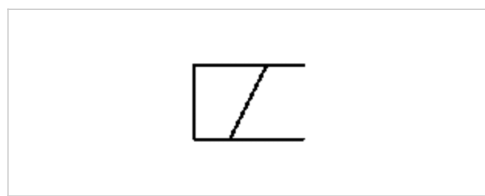
1) contact as per DIN EN 175301-803, form A
 2) contact as per DIN EN 175301-803, form C

Coil, Series C01

- form A
- Coil width 30 mm
- Power consumption DC 2.7 W
- Holding power AC 1.6 VA



Connector standard electrical connections	EN 175301-803, form A Plug, 3-pin
Ambient temperature min./max.	50 °C
Protection class With valve plug connector/plug	IP65
Duty cycle ED	100 %
Compatibility index	14
Weight	0.096 kg



Technical data

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R432011985	-	110 V	120 V
R432011986	-	220 V	240 V
R432011989	24 V	-	-
R432011990	-	24 V	24 V

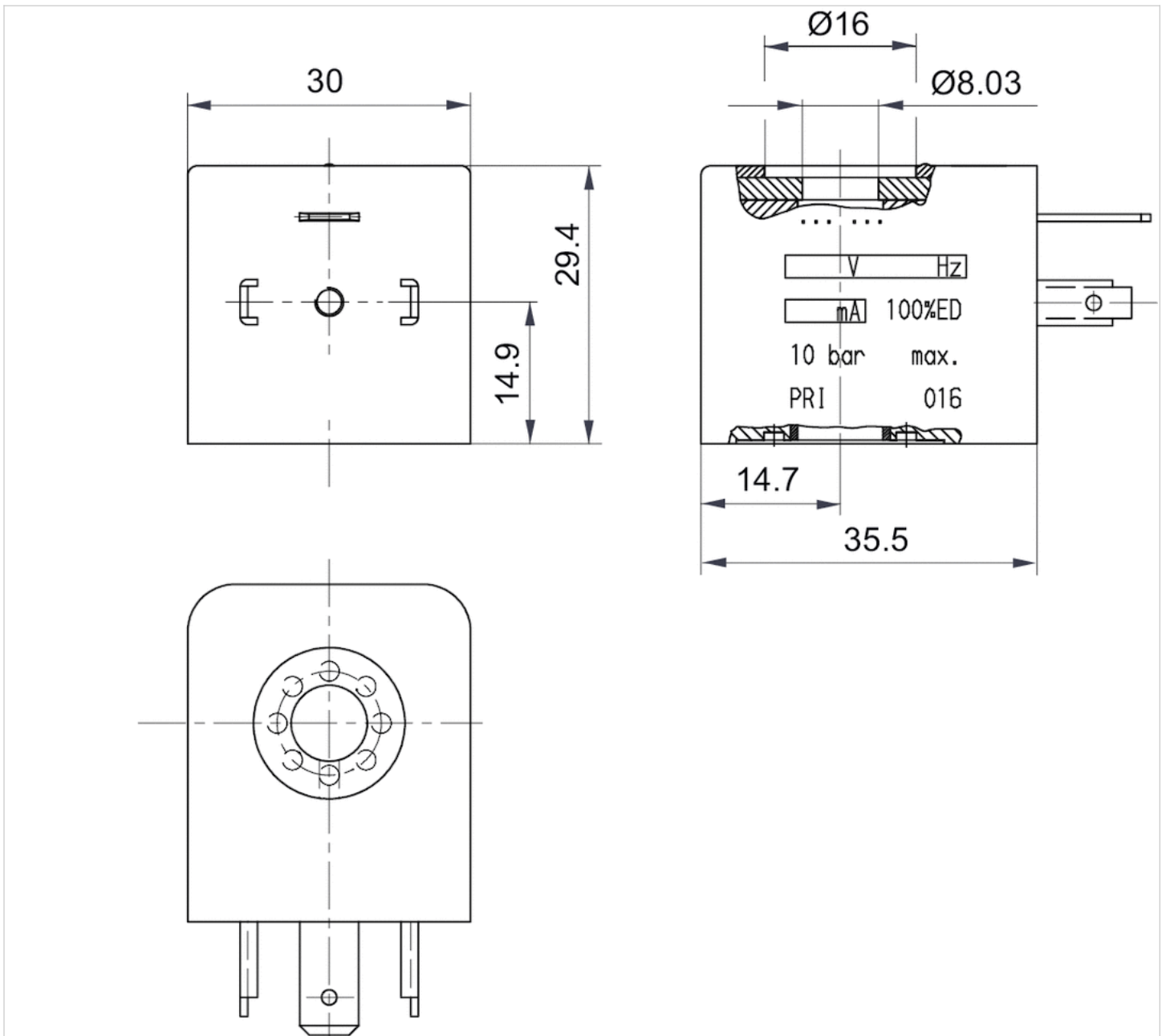
Part No.	Voltage tolerance	Power consumption	Holding power	Holding power
	DC	DC	AC 50 Hz	AC 60 Hz
R432011985	-10% / +10%	-	3.7. VA	3.7. VA
R432011986	-10% / +10%	-	3.7. VA	3.7. VA
R432011989	-10% / +10%	2.7 W	-	-
R432011990	-10% / +10%	-	1.6 VA	1.4 VA

Technical information

Material	
Housing	Thermoplastic elastomer

Dimensions

Dimensions








Valve plug connector, series CON-VP

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



Ambient temperature min./max.	-20 ... 80 °C
Operational voltage	See table below
Protection class	IP67
Wire cross-section	0.75 mm ²
Mounting screw tightening torque	0.4 Nm
Weight	See table below

Technical data

Part No.		Operational voltage	Protective circuit	Contact assignment	LED status display
1834484160		230 V AC/DC	-	2+E	-
1834484162		24 V AC/DC	Z-diode	2+E	Yellow
1834484163		24 V AC/DC	Z-diode	2+E	Yellow
1834484164		230 V AC/DC	Varistor	2+E	Red
1834484165		230 V AC/DC	Varistor	2+E	Red

Part No.	Number of wires	Cable-Ø	Cable length	Weight	Fig.	
1834484160	3	5.9 mm	3 m	0.2 kg	Fig. 1	1)
1834484162	3	5.9 mm	3 m	0.2 kg	Fig. 2	-
1834484163	3	5.9 mm	5 m	0.31 kg	Fig. 2	-
1834484164	3	5.9 mm	3 m	0.2 kg	Fig. 2	-
1834484165	3	5.9 mm	5 m	0.31 kg	Fig. 2	-

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

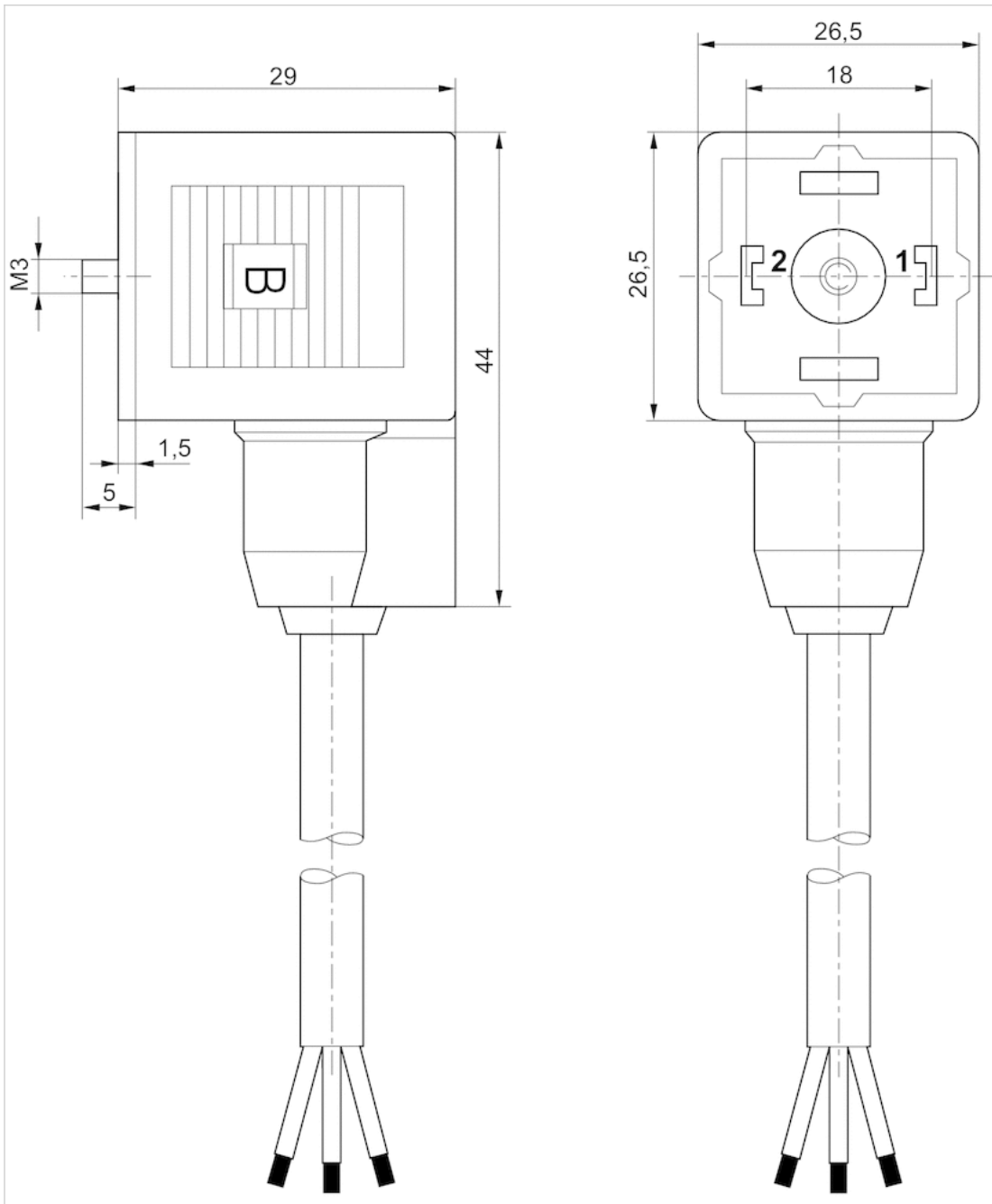
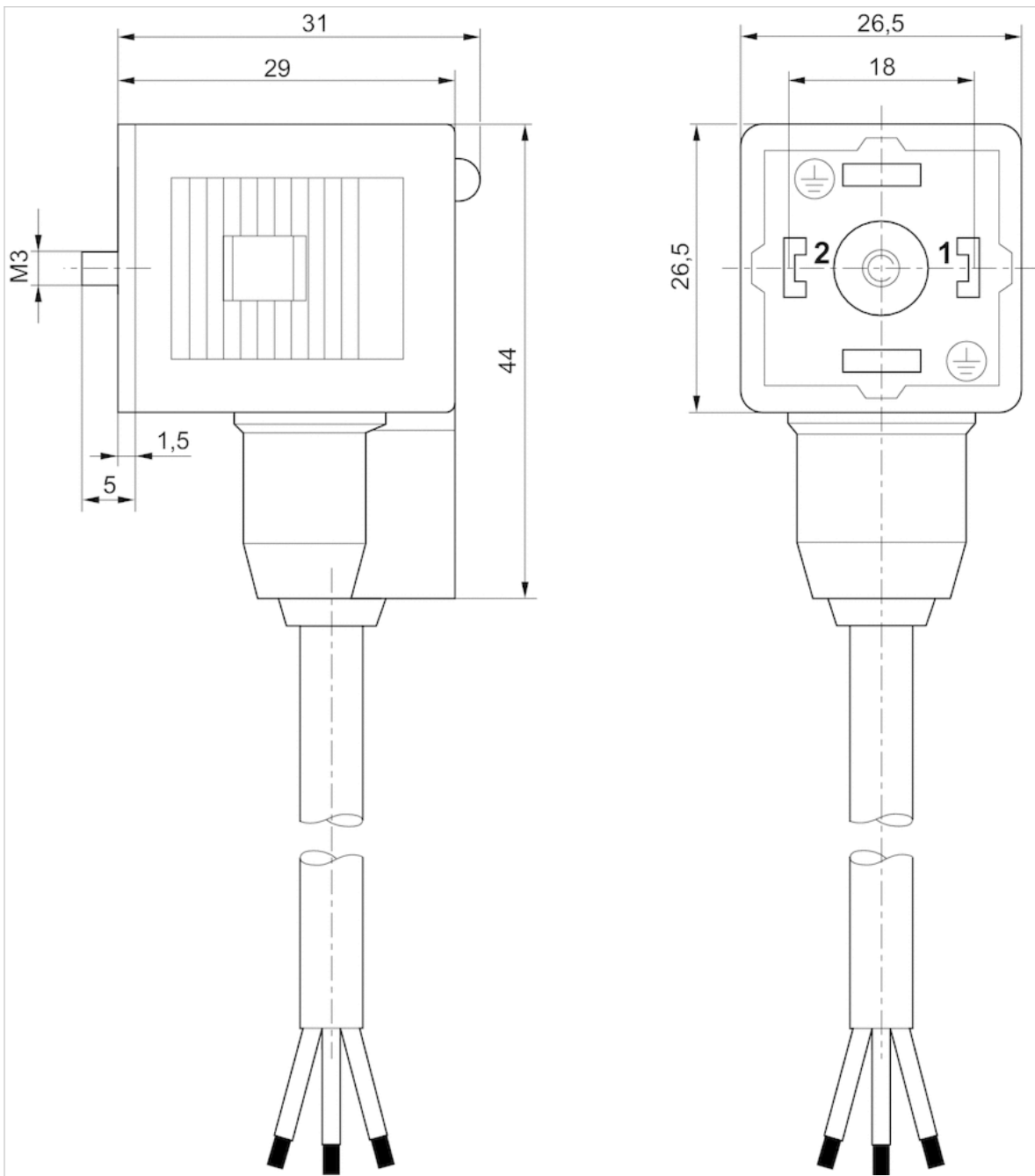


Fig. 2



Kit, Series CD07

- for manual override



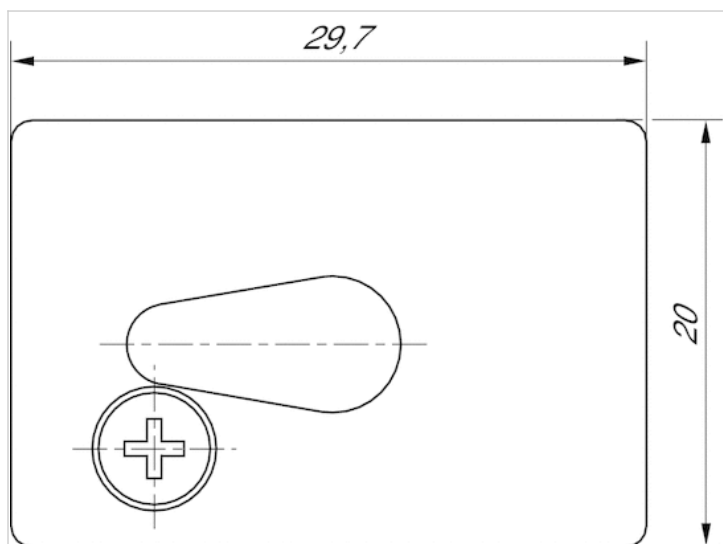
Weight

0.004 kg

Technical data

Part No.	Suitable for	Delivery unit
5420900002	Manual override lock	1 piece

Dimensions



Silencers, series SI1

- M5 M7 M10x1 M12x1,5 M14x1,5 M22x1,5 G 1/8 G 1/4 G 3/8 G 1/2 G 3/4 G 1

- Sintered bronze



Working pressure min./max.

0 ... 10 bar

Ambient temperature min./max.

-25 ... 80 °C

Medium

Compressed air

Sound pressure level

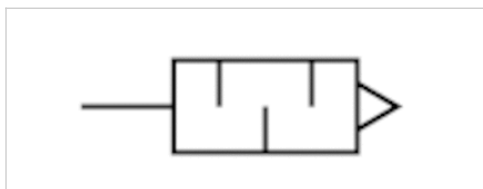
See table below

Weight

See table below

Comment

Flow characteristic curves can be found under "Diagrams".



Technical data

Part No.	Compressed air connection	Sound pressure level	Flow	Delivery unit	Weight
			Qn		
1827000006	M5	72 dB	398 l/min	10 piece	0.004 kg
8140000700	M7	-	-	10 piece	0.005 kg
5324001110	M10x1	75 dB	1747 l/min	1 piece	0.011 kg
5324001170	M12x1,5	80 dB	3049 l/min	1 piece	0.019 kg
5324001120	M14x1,5	80 dB	3390 l/min	1 piece	0.018 kg
5324001140	M22x1,5	85 dB	7223 l/min	1 piece	0.071 kg
1827000000	G 1/8	75 dB	1623 l/min	10 piece	0.01 kg
R412004817	G 1/4	-	5950 l/min	10 piece	0.013 kg
1827000001	G 1/4	79 dB	3390 l/min	10 piece	0.02 kg
1827000002	G 3/8	84 dB	6554 l/min	5 piece	0.05 kg
1827000003	G 1/2	90 dB	7223 l/min	2 piece	0.08 kg
1827000004	G 3/4	92 dB	8394 l/min	1 piece	0.13 kg
1827000005	G 1	102 dB	12848 l/min	1 piece	0.18 kg

Weight per piece

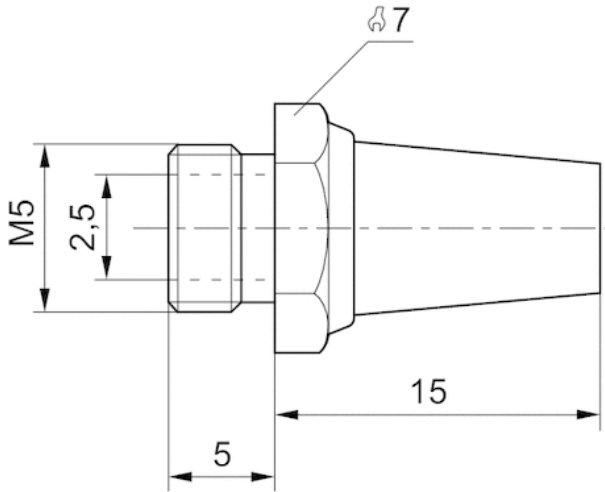
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

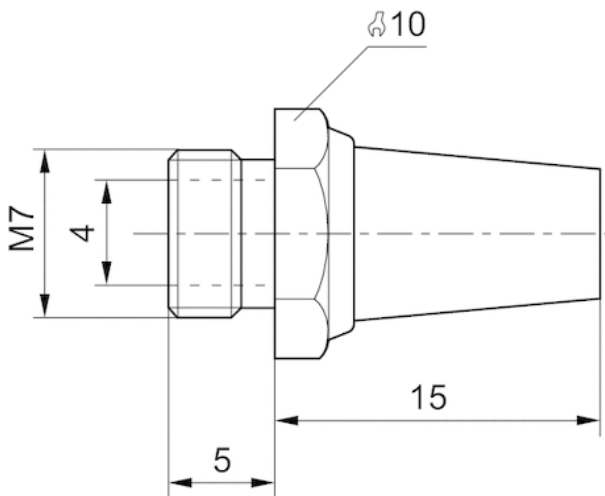
Material	
Silencer	Sintered bronze
Thread	Brass

Dimensions

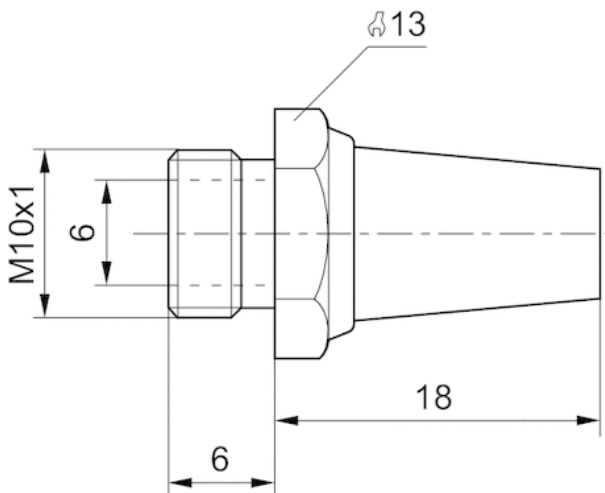
Dimensions in mm



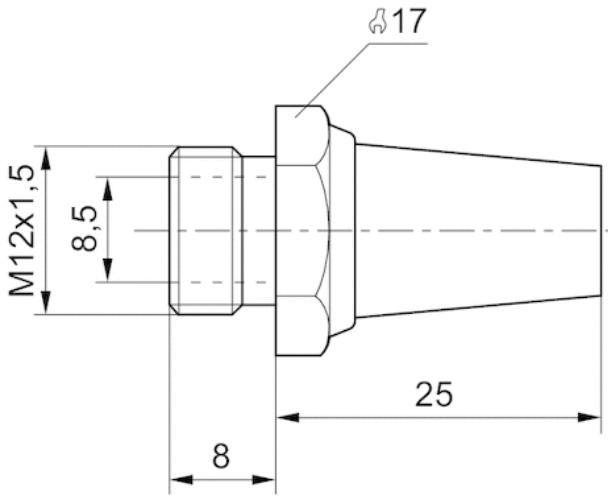
Dimensions in mm



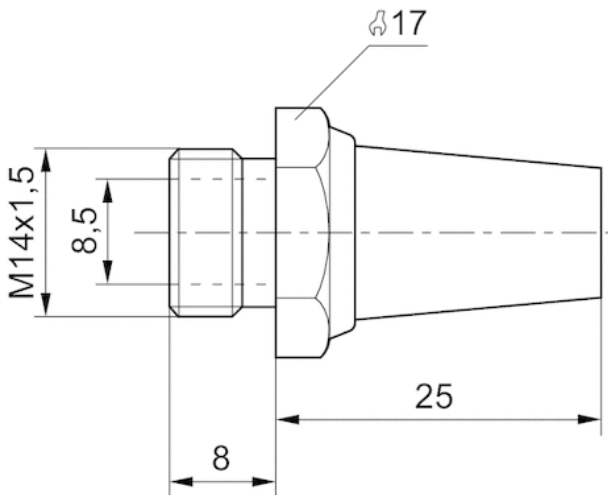
Dimensions in mm



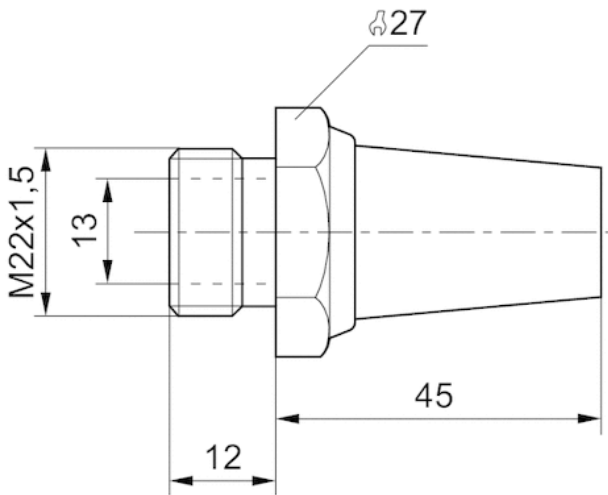
Dimensions in mm



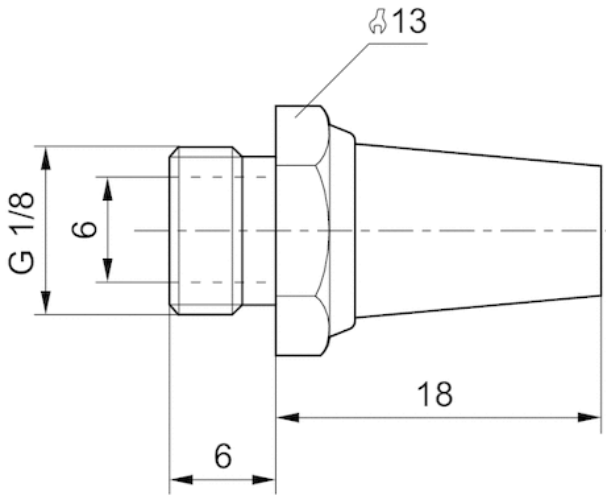
Dimensions in mm



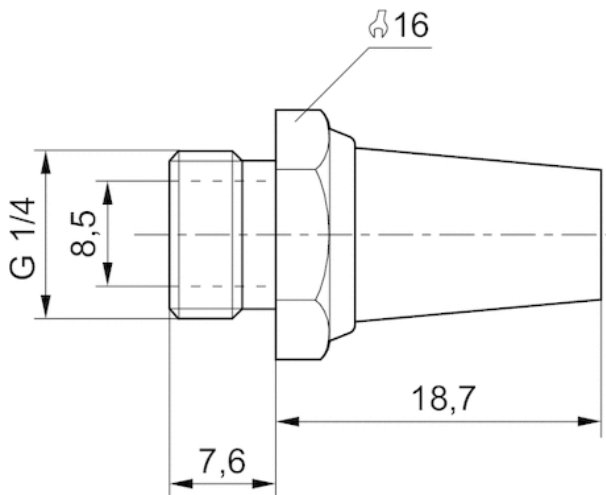
Dimensions in mm



Dimensions in mm



Dimensions in mm

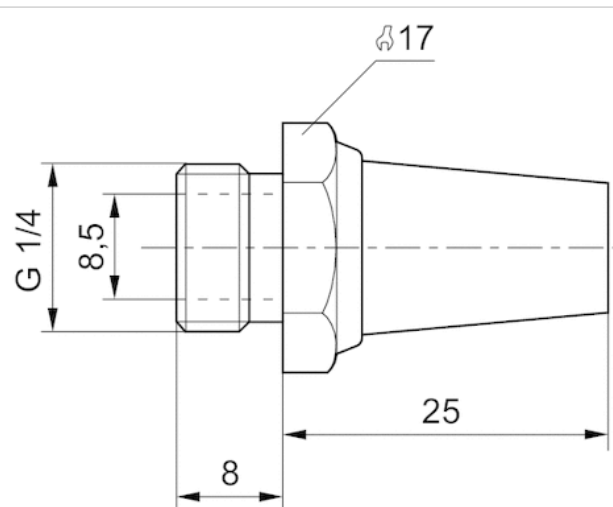


Dimensions

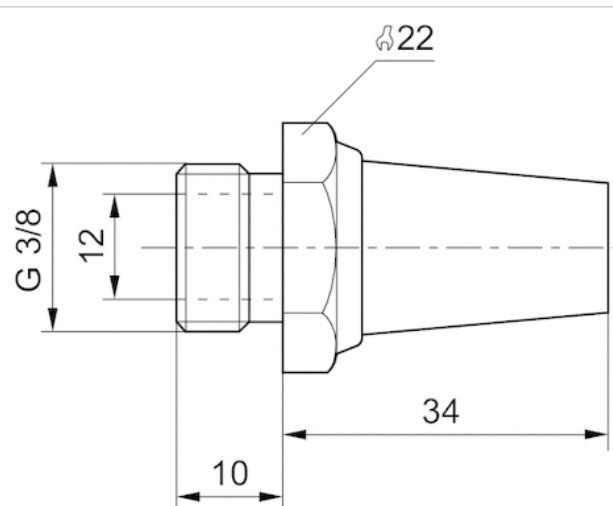
Part No.	Port G	SW	Ø D	L1	L2
1827000006	M5	7	2.5	15	5
-	M7	-	-	-	-
-	M10x1	-	-	-	-
-	M12x1,5	-	-	-	-
-	M14x1,5	-	-	-	-
-	M22x1,5	-	-	-	-
-	G 1/8	-	-	-	-
-	G 1/4	-	-	-	-
-	G 1/4	-	-	-	-
-	G 3/8	-	-	-	-
-	G 1/2	-	-	-	-
-	G 3/4	-	-	-	-
-	G 1	-	-	-	-

Dimensions

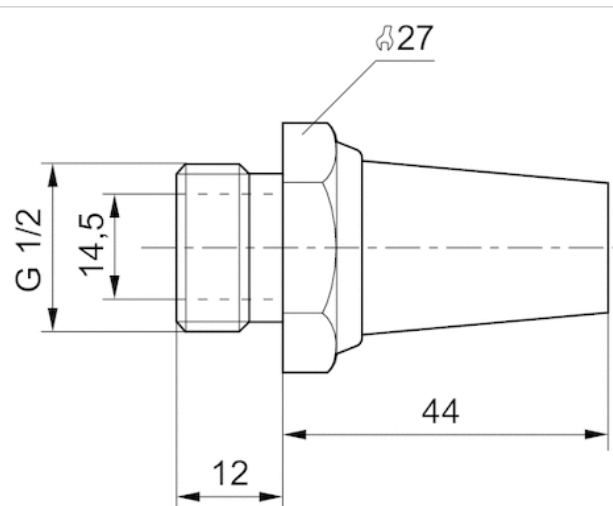
Dimensions in mm



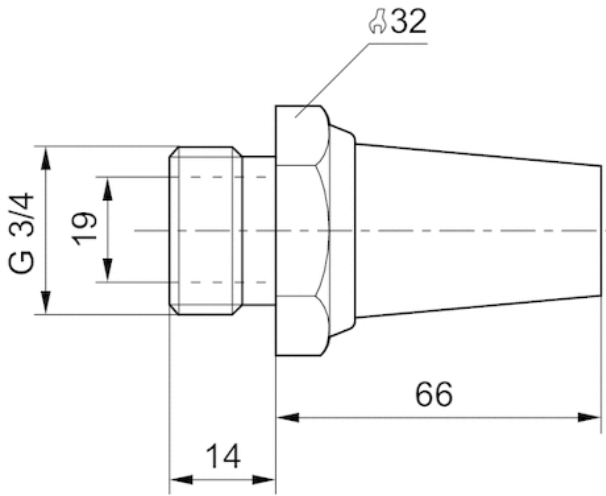
Dimensions in mm



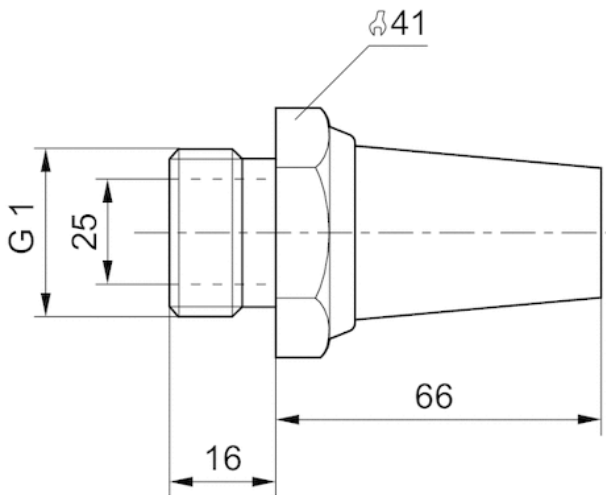
Dimensions in mm



Dimensions in mm

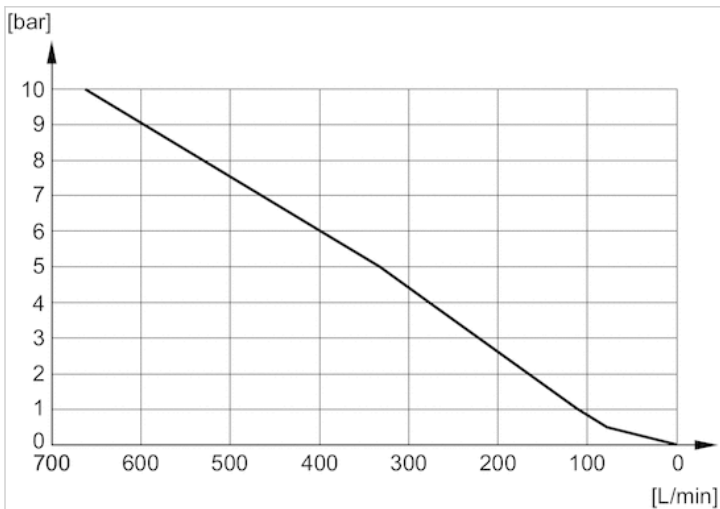


Dimensions in mm



Diagrams

Flow diagram, 1827000006



Accessories, Series CD07



Weight

See table below

Technical data

Part No.	Fig.	Type
3354600002	Fig. 1	Mounting kit for 10 valves, delivery includes: 30 seals, 10 washers, and 10 mounting screws.
3354600082	Fig. 2	P plug
3354600072	Fig. 3	R/S plug
8970810404	Fig. 4	Seal for external pilot

Part No.	Suitable for	Delivery unit	Weight
3354600002	R, P, S subbase	1 piece	0.125 kg
3354600082	R, P, S subbase	1 piece	0.022 kg
3354600072	R, P, S subbase	1 piece	0.023 kg
8970810404	R, P, S subbase	1 piece	0.001 kg

Dimensions

Fig.1

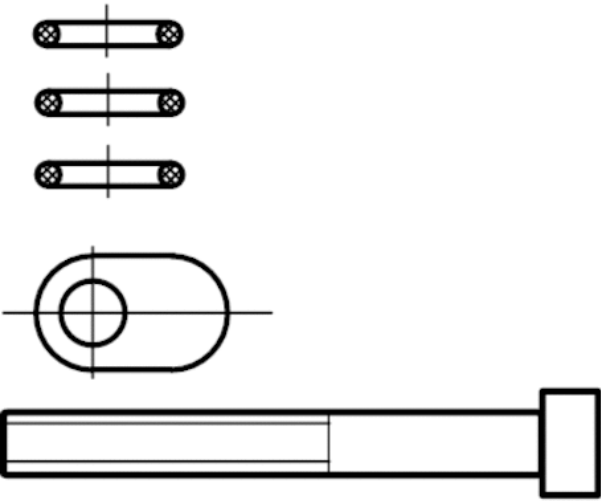


Fig.2

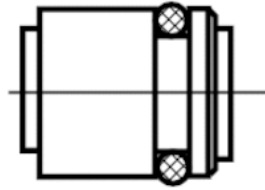
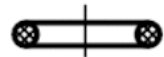


Fig.3



Fig.4



Accessories, Series CD07

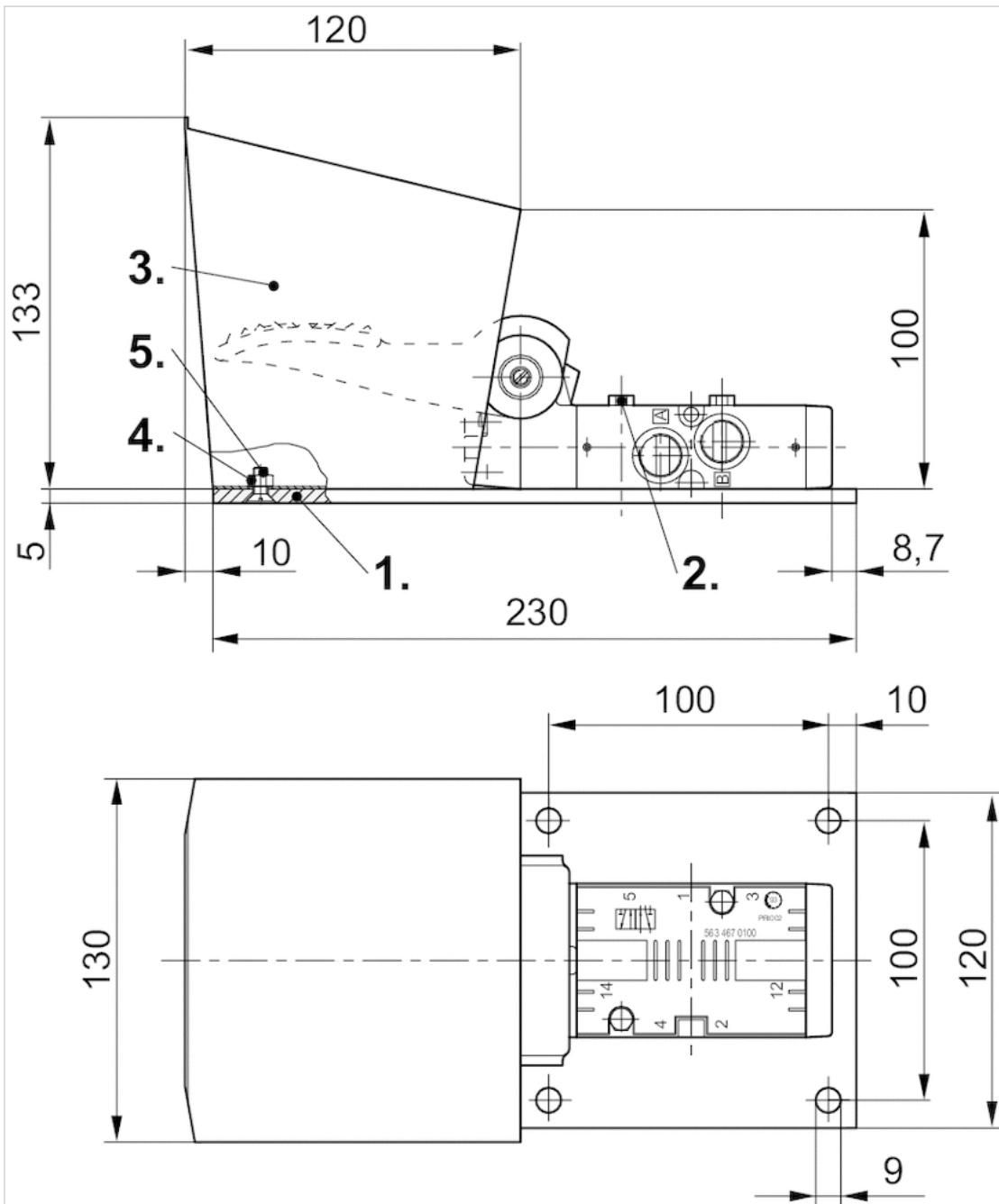


Technical data

Part No.	Type	Delivery unit
5631174514	Protective cover	1 piece

Dimensions

Dimensions



- 1) Mounting plate
- 2) Hexagon screw M5x35
- 3) Protective cover
- 4) Screw M5x12 (not included in scope of delivery)
- 5) Hexagonal nut M5 (not included in the delivery contents)

Accessories, Series CD07



Technical data

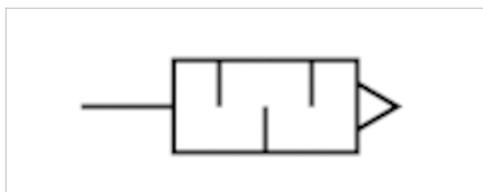
Part No.	Type	Delivery unit
5631171004	Mounting plate	1 piece
8101260304	Hexagon screw M5x35	1 piece

Mounting plate, Hexagon screw M5x35

Silencers, series SI1

- M5 G 1/8 G 1/4 G 3/8 G 1/2 G 3/4 G 1

- Sintered bronze



Working pressure min./max.

0 ... 10 bar

Ambient temperature min./max.

-25 ... 80 °C

Medium

Compressed air

Sound pressure level

See table below

Weight

See table below

Comment

Flow characteristic curves can be found under "Diagrams".

Technical data

Part No.	Compressed air connection	Sound pressure level	Flow	Delivery unit	Weight
			Qn		
1827000032	M5	79 dB	252 l/min	10 piece	0.005 kg
1827000031	G 1/8	85 dB	700 l/min	10 piece	0.001 kg
1827000033	G 1/4	88 dB	1116 l/min	10 piece	0.01 kg
1827000034	G 3/8	90 dB	1706 l/min	5 piece	0.016 kg
1827000035	G 1/2	85 dB	2568 l/min	2 piece	0.035 kg
8145003400	G 3/4	82 dB	3260 l/min	1 piece	0.095 kg
8145001000	G 1	82 dB	9485 l/min	1 piece	0.057 kg

Weight per piece

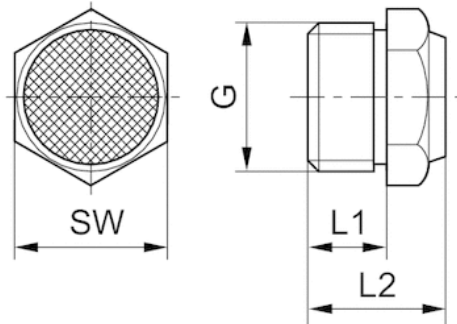
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Sintered bronze
Thread	Brass

Dimensions

Dimensions



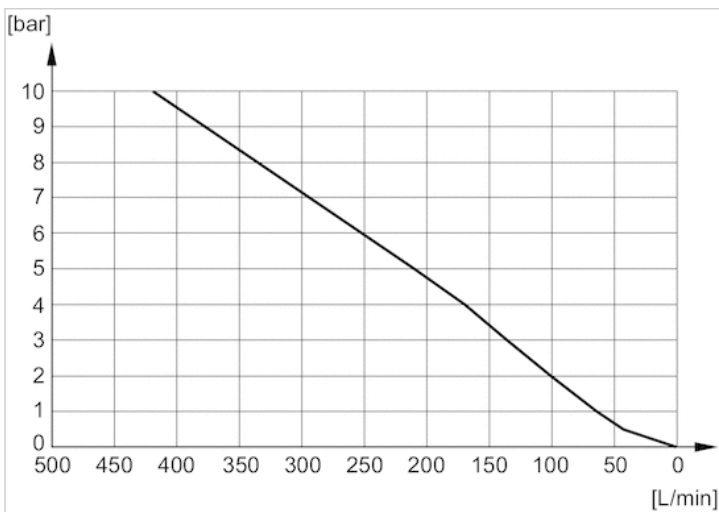
Dimensions

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

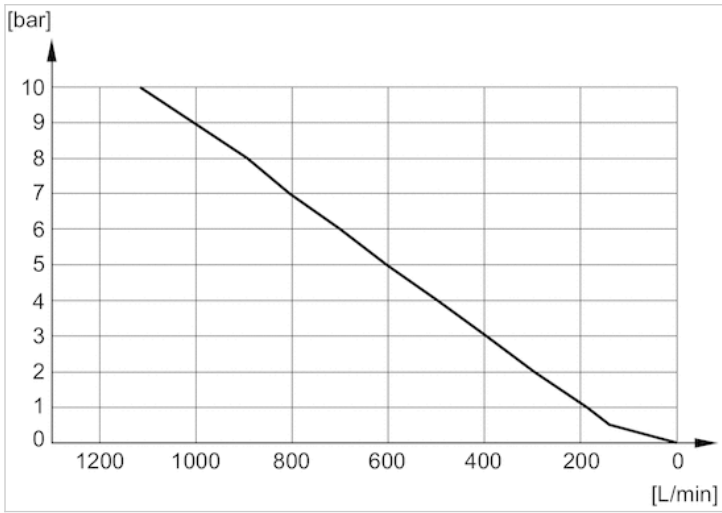
Sound pressure level measured at 6 bar at 1 m distance

Diagrams

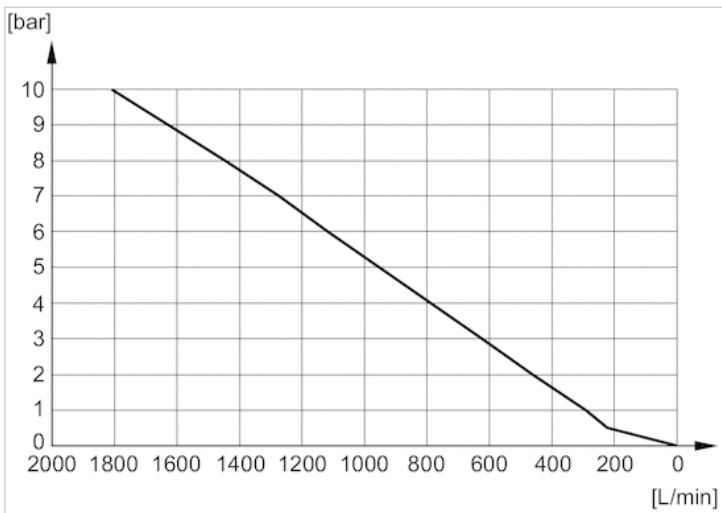
Flow diagram, 1827000032



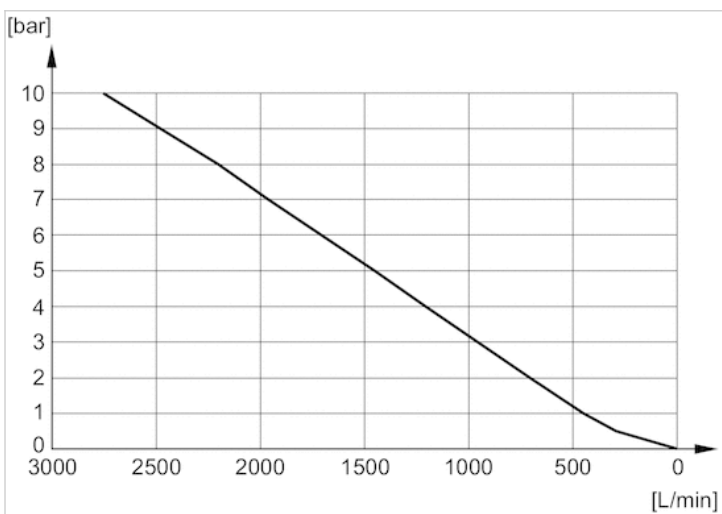
Flow diagram, 1827000031



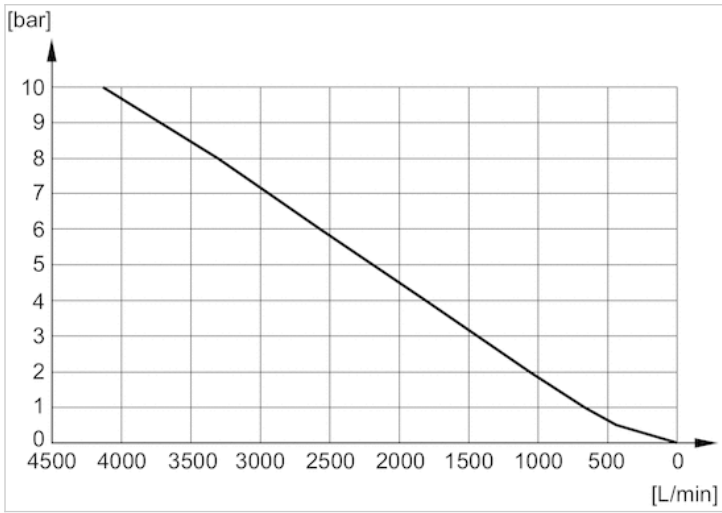
Flow diagram, 1827000033



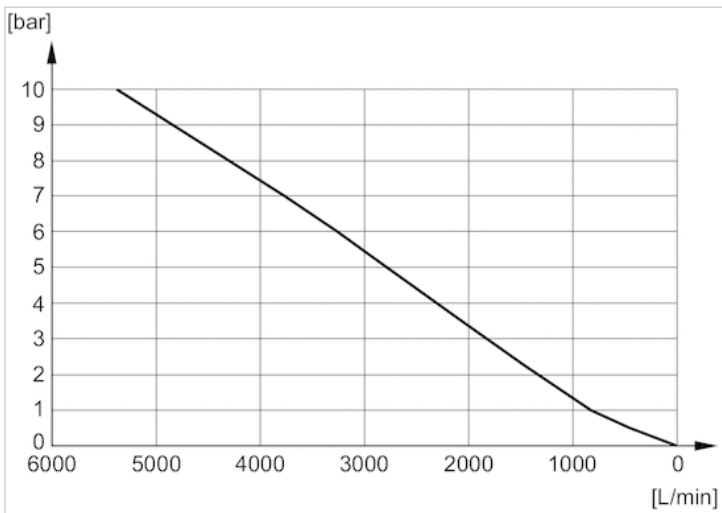
Flow diagram, 1827000034



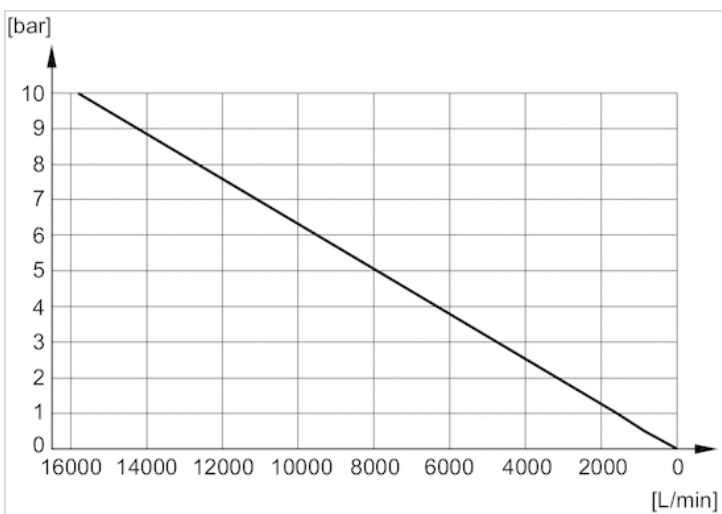
Flow diagram, 1827000035



Flow diagram, 8145003400



Flow diagram, 8145001000



Blanking plate, for series CD07



Working pressure min./max.	-0.95 ... 16 bar
Ambient temperature min./max.	-25 ... 80 °C
Medium temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Number of valve positions max.	1
Weight	0.181 kg

Technical data

Part No.
3354601024

Technical information

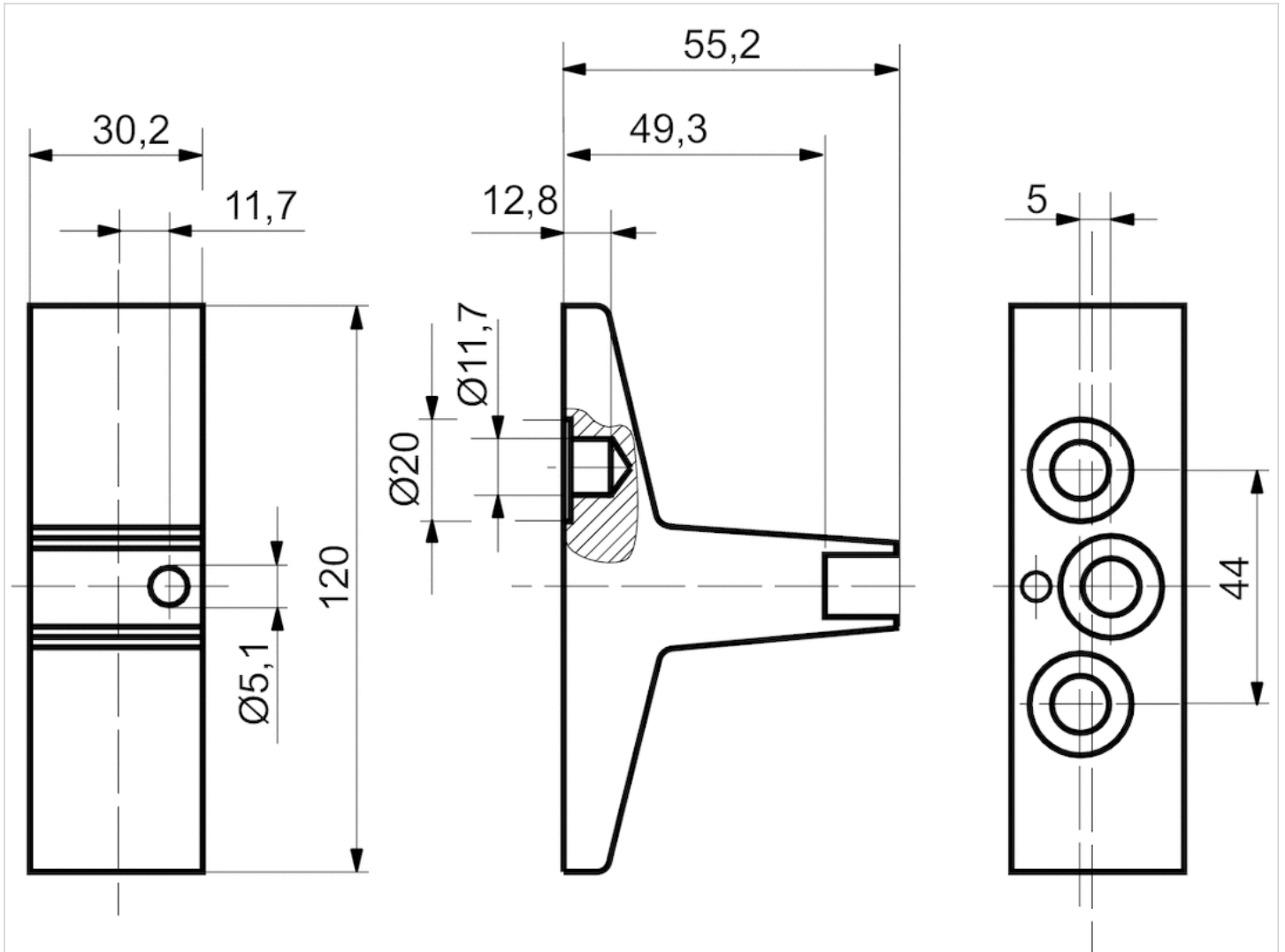
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Silencers, series SI1

- G 1/8 G 1/4 G 3/8 G 1/2 G 3/4 G 1

- Sintered bronze



Working pressure min./max.

0 ... 10 bar

Ambient temperature min./max.

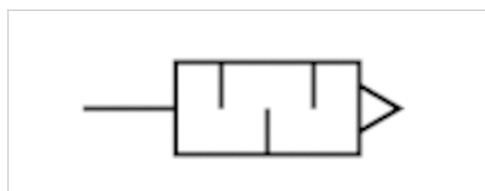
-25 ... 80 °C

Medium

Compressed air

Comment

Flow characteristic curves can be found under "Diagrams".



Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827430004	G 1/8	311 l/min	10 piece
R414000155	G 1/4	553 l/min	10 piece
R412007875	G 3/8	743 l/min	5 piece
R412007876	G 1/2	1343 l/min	2 piece
R412007877	G 3/4	3585 l/min	2 piece
R412007878	G 1	5012 l/min	2 piece

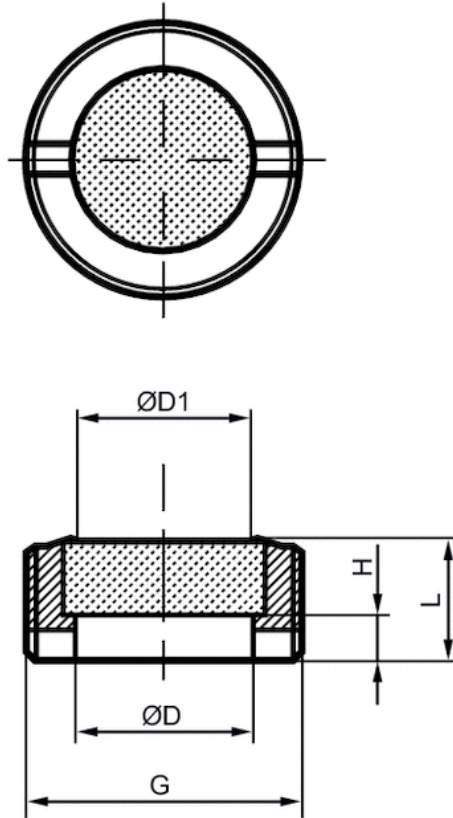
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Sintered bronze
Thread	Brass

Dimensions

Dimensions

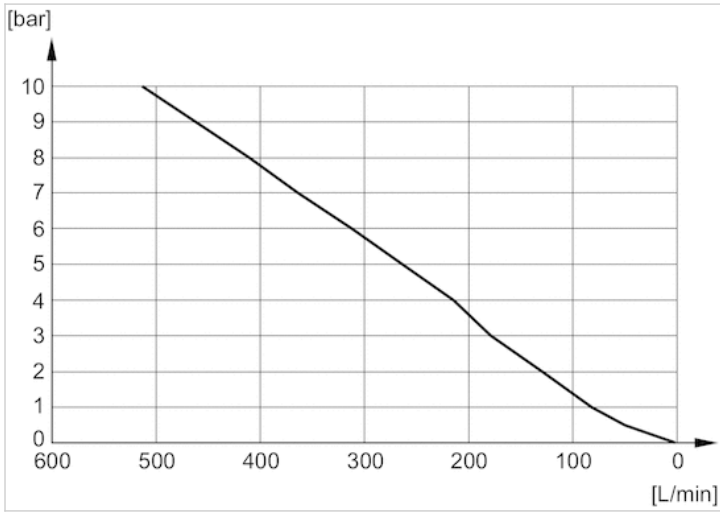


Dimensions

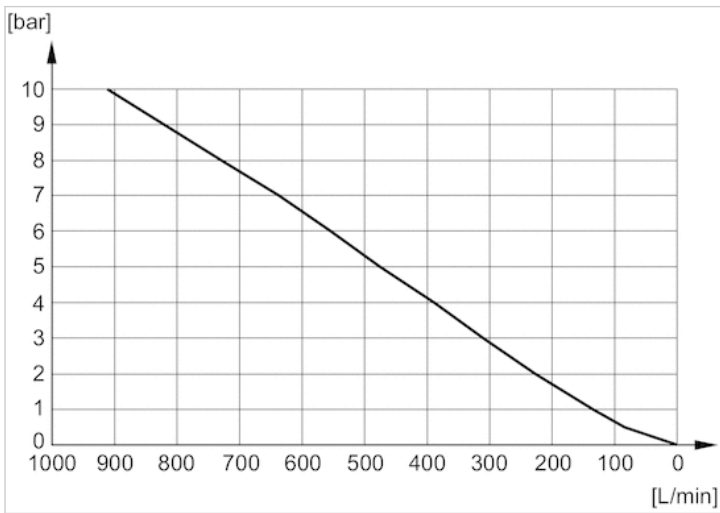
Part No.	Port G	Ø D	Ø D1	H	L
1827430004	G 1/8	6	5	2	4
R414000155	G 1/4	8	6	3	6
R412007875	G 3/8	10	8	3	7
R412007876	G 1/2	15	12	5	9
R412007877	G 3/4	20	17	3.4	8
R412007878	G 1	26	23	5.5	9.5

Diagrams

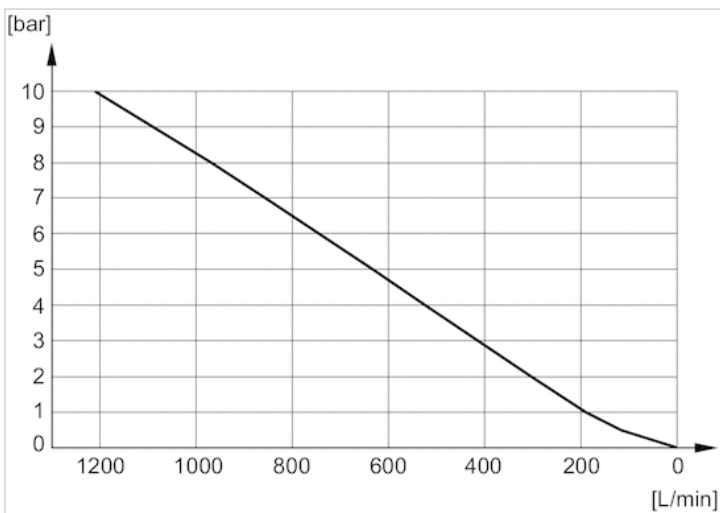
Flow diagram, 1827430004



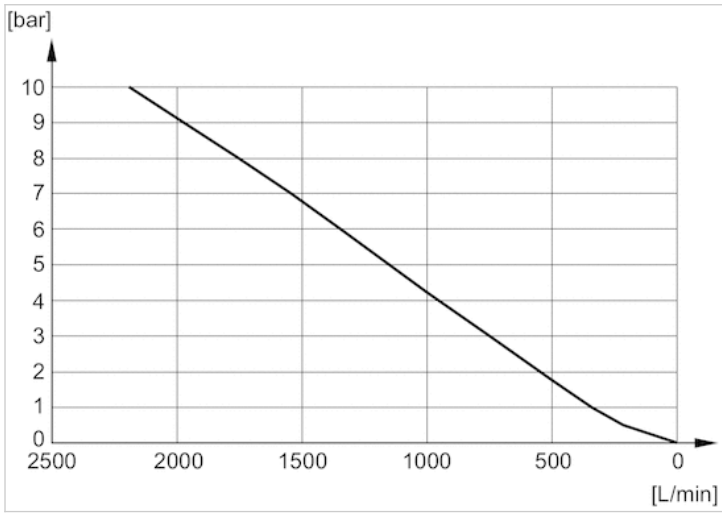
Flow diagram, R414000155



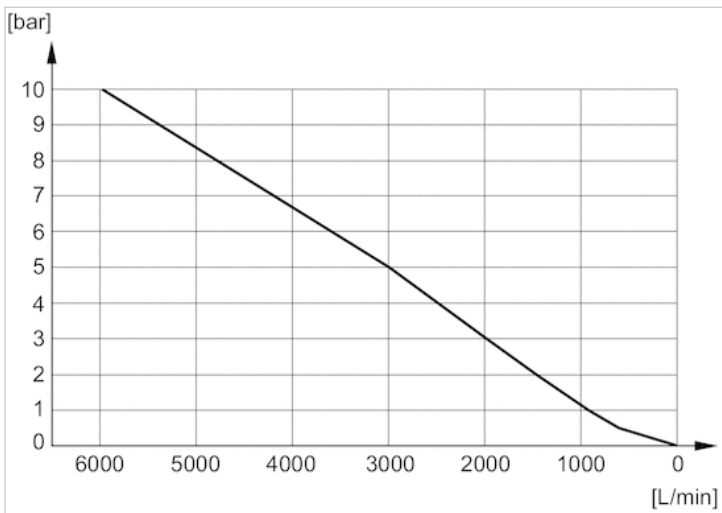
R412007875



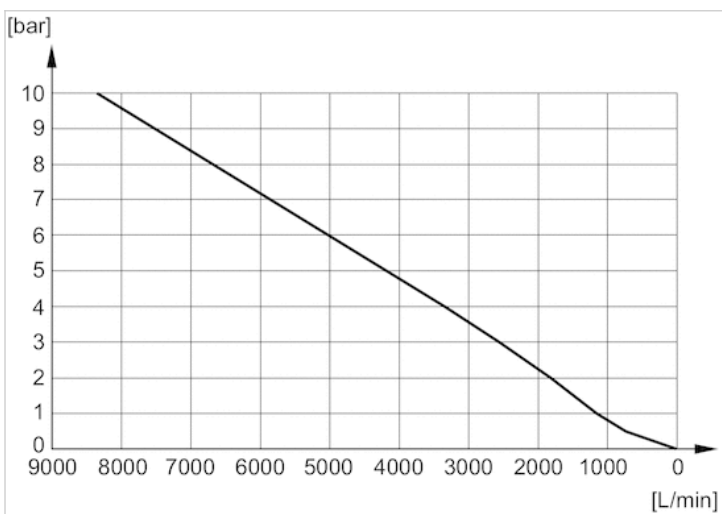
Flow diagram, R412007876



Flow diagram, R412007877



Flow diagram, R412007878



Silencers, series SI1

- M5 G 1/8 G 1/4 G 3/8 G 1/2 G 3/4 G 1

- Stainless steel



Working pressure min./max.

0 ... 12 bar

Ambient temperature min./max.

-20 ... 150 °C

Medium

Compressed air

Sound pressure level

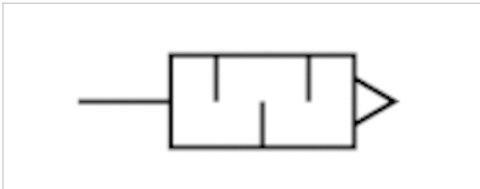
See table below

Weight

See table below

Comment

Flow characteristic curves can be found under "Diagrams".



Technical data

Part No.	Compressed air connection	Sound pressure level	Flow	Delivery unit	Weight
			Qn		
R412010090	M5	85 dB	73 l/min	1 piece	0.003 kg
R412010081	G 1/8	90 dB	1312 l/min	1 piece	0.011 kg
R412010082	G 1/4	93 dB	1852 l/min	1 piece	0.021 kg
R412010083	G 3/8	101 dB	2678 l/min	1 piece	0.028 kg
R412010084	G 1/2	95 dB	5649 l/min	1 piece	0.048 kg
R412010085	G 3/4	110 dB	5945 l/min	1 piece	0.076 kg
R412010086	G 1	100 dB	7206 l/min	1 piece	0.099 kg

Weight per piece

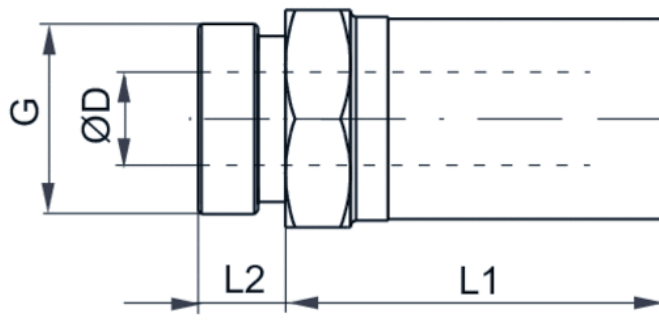
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Stainless steel
Thread	Stainless steel

Dimensions

Dimensions

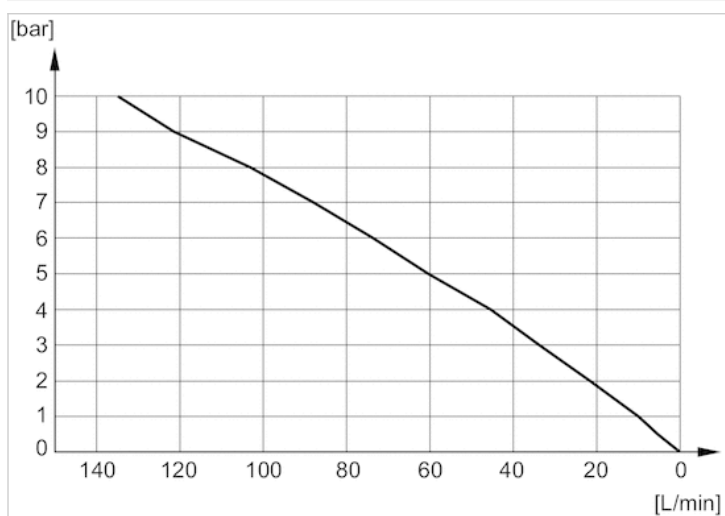


Dimensions

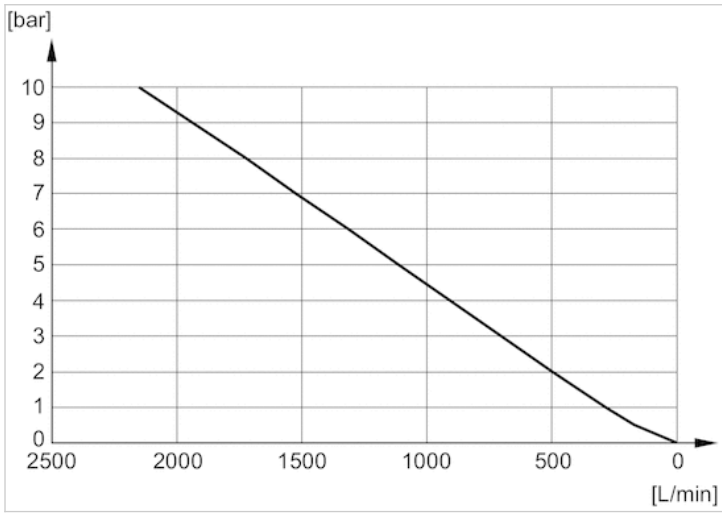
Part No.	Port G	SW	Ø D	L1	L2
R412010090	M5	8	3.1	10.5	3.5
R412010081	G 1/8	13	6.6	20	6
R412010082	G 1/4	16	8.6	29.5	7.5
R412010083	G 3/8	19	12.1	33.5	7.5
R412010084	G 1/2	24	15.3	39.5	9.5
R412010085	G 3/4	30	19.3	45	10
R412010086	G 1	36	25.5	49.5	11.5

Diagrams

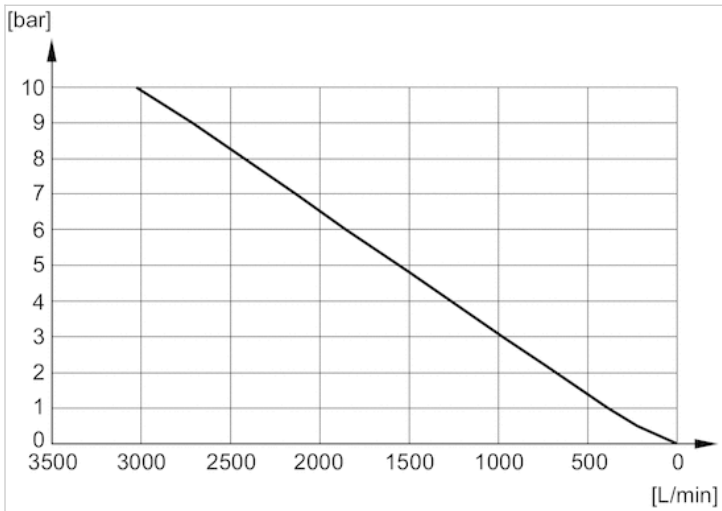
Flow diagram, R412010090



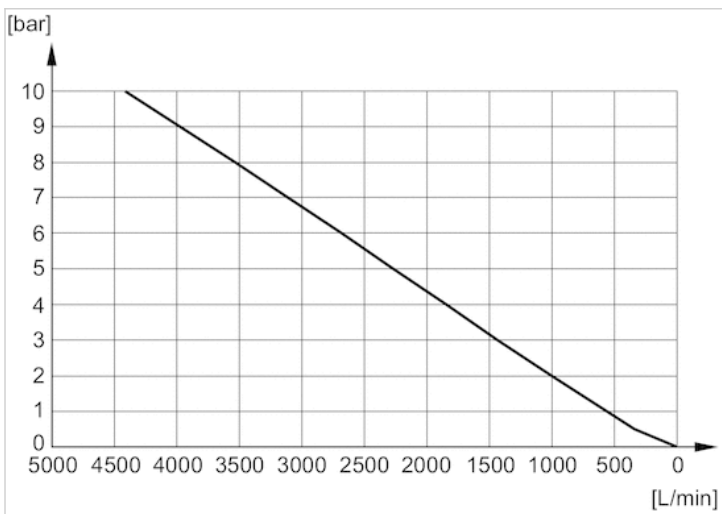
Flow diagram, R412010081



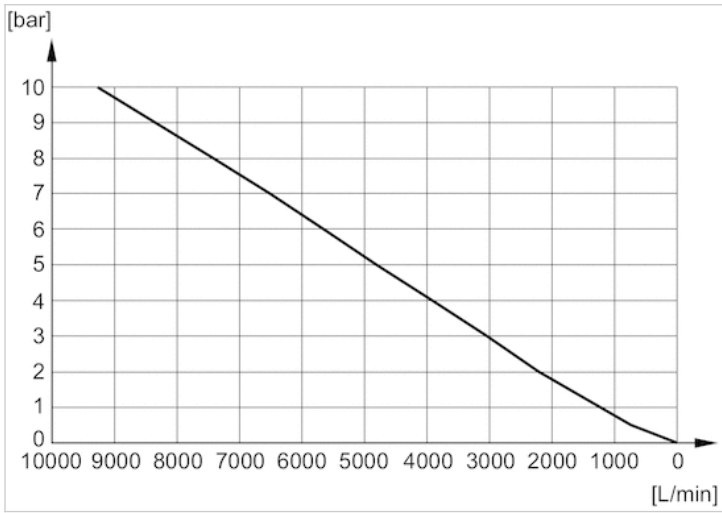
Flow diagram, R412010082



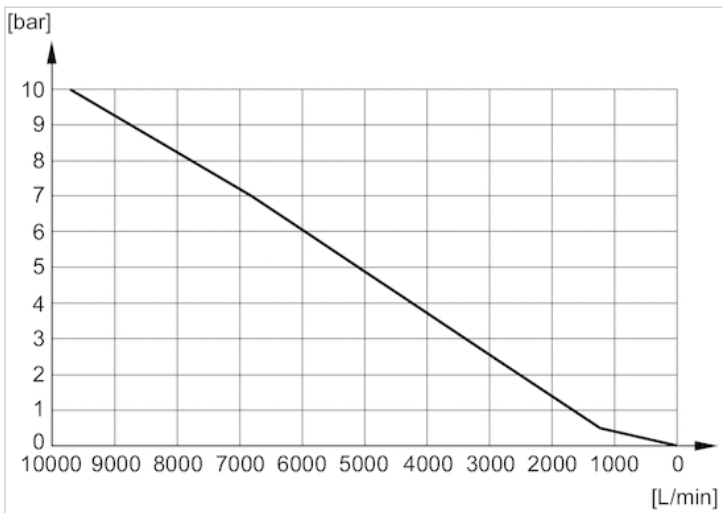
Flow diagram, R412010083



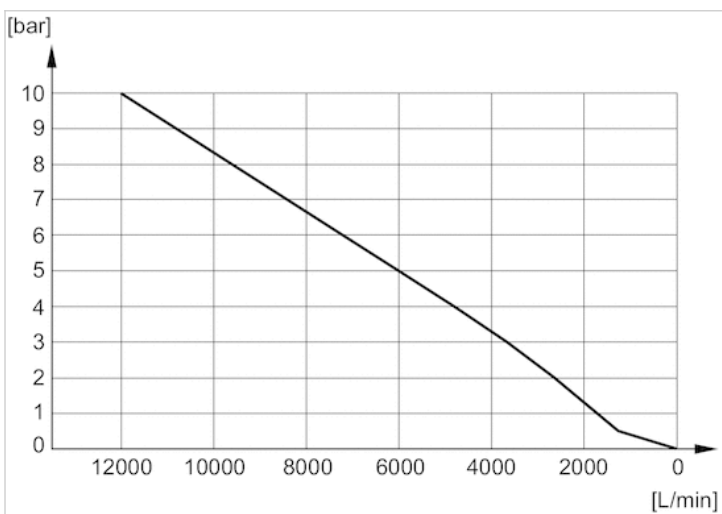
Flow diagram, R412010084



Flow diagram, R412010085



Flow diagram, R412010086



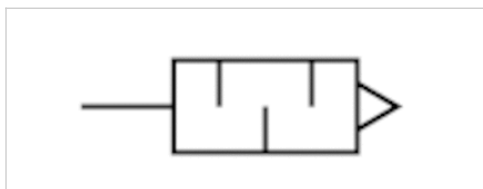
Silencers, series SI1

- M5 G 1/8 G 1/4 G 3/8 G 1/2 G 3/4 G 1

- Polyethylene



Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Sound pressure level	See table below
Weight	See table below



Technical data

Part No.	Compressed air connection	Sound pressure level	Flow	Delivery unit	Weight
			Qn		
1827000018	M5	-	381 l/min	5 piece	0.001 kg
1827000019	G 1/8	78 dB	1560 l/min	5 piece	0.002 kg
1827000020	G 1/4	80 dB	3447 l/min	5 piece	0.003 kg
1827000021	G 3/8	85 dB	5682 l/min	2 piece	0.008 kg
1827000022	G 1/2	88 dB	7142 l/min	1 piece	0.013 kg
1827000023	G 3/4	-	8356 l/min	1 piece	0.04 kg
1827000024	G 1	-	13329 l/min	1 piece	0.055 kg

Weight per piece

Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

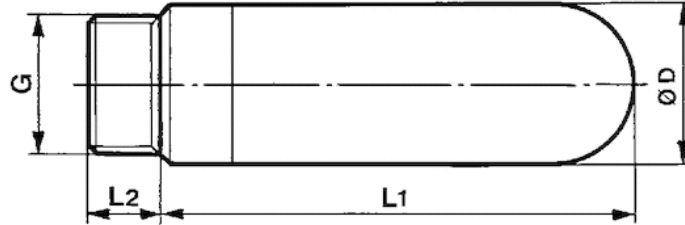
Flow characteristic curves can be found under "Diagrams".

Technical information

Material	
Silencer	Polyethylene
Thread	Polyethylene

Dimensions

Dimensions

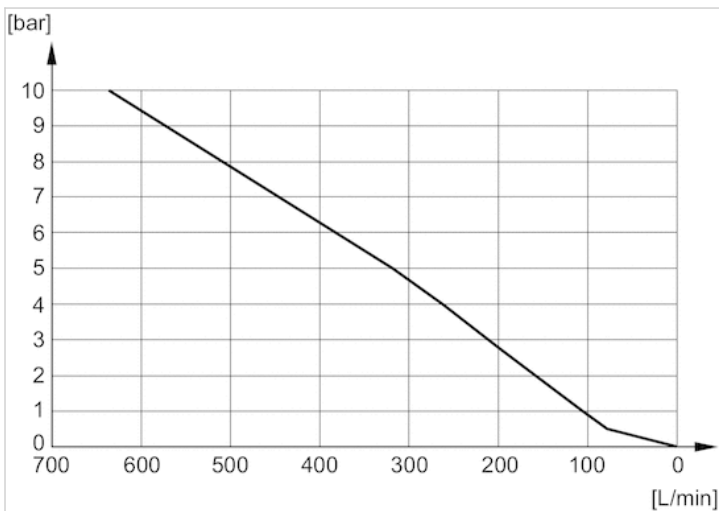


Dimensions

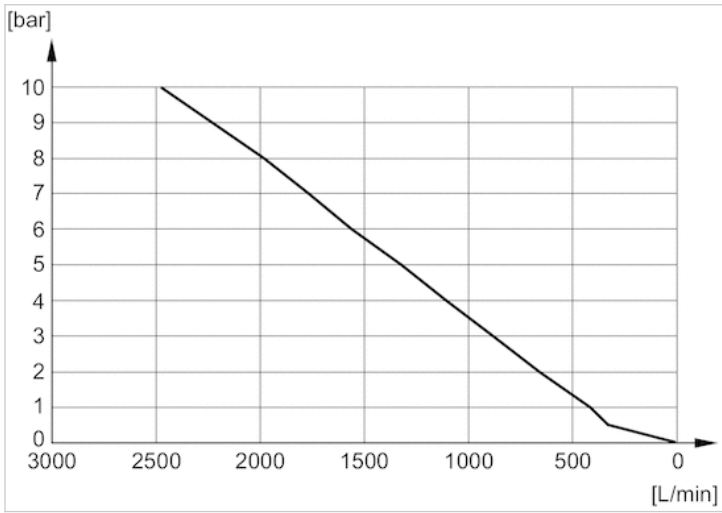
Part No.	Port G	Ø D	L1	L2
1827000018	M5	6.5	17.5	4
1827000019	G 1/8	12.5	28.5	5.5
1827000020	G 1/4	15.5	34.5	8
1827000021	G 3/8	18.5	56	11.5
1827000022	G 1/2	23.3	66.5	11
1827000023	G 3/4	38.5	115.5	16
1827000024	G 1	49	140	21

Diagrams

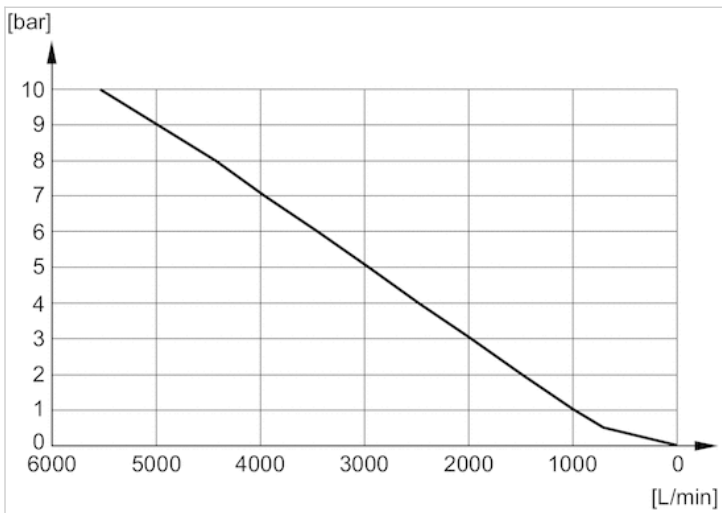
Flow diagram, 1827000018



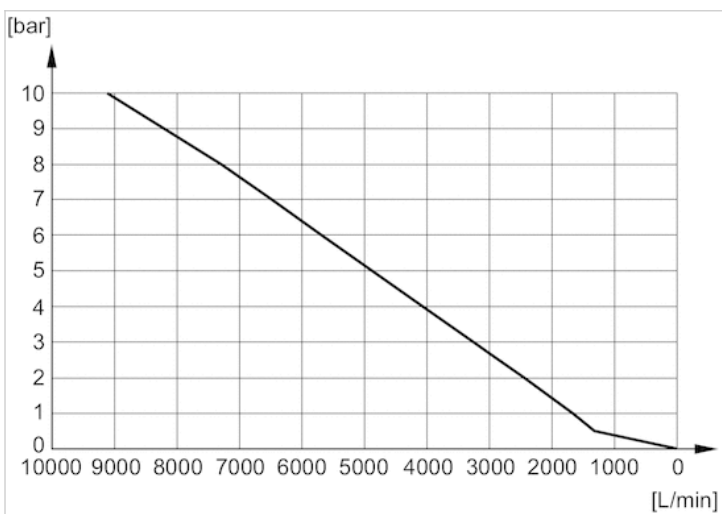
Flow diagram, 1827000019



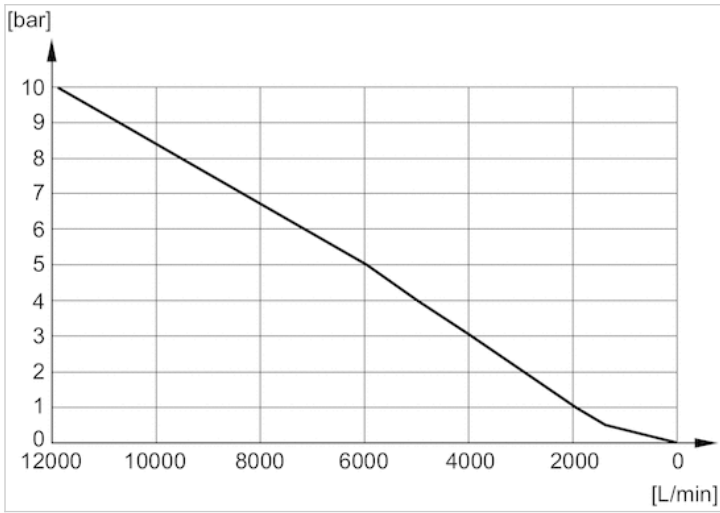
Flow diagram, 1827000020



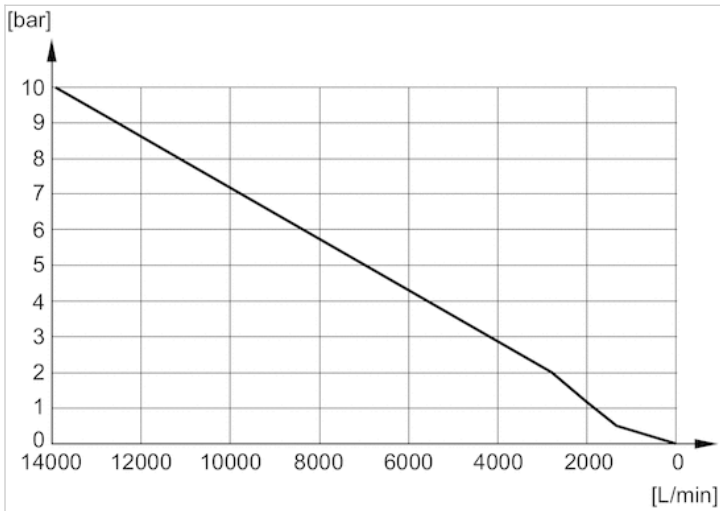
Flow diagram, 1827000021



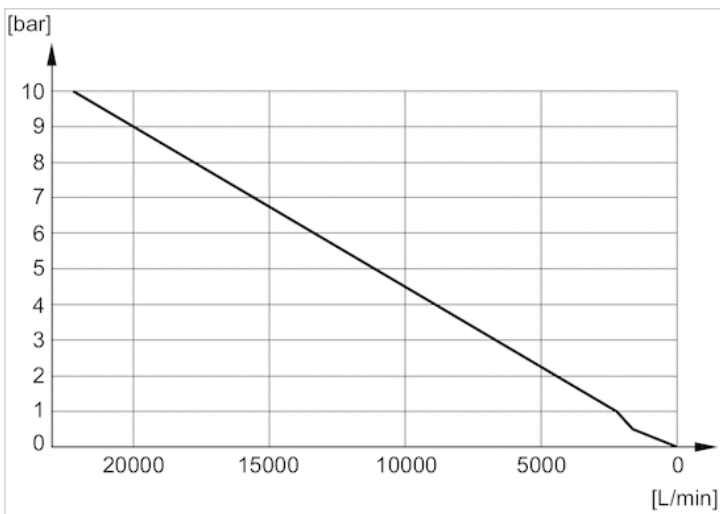
Flow diagram, 1827000022



Flow diagram, 1827000023



Flow diagram, 1827000024



P-manifold

- for CD07

- 5/2 and 5/3-directional valves



Compressed air connection	according to ISO 228-1
Working pressure min./max.	-0.95 ... 16 bar
Ambient temperature min./max.	-25 ... 80 °C
Medium temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Exhaust (3,5)	uncollected exhaust
Weight	See table below

Technical data

Part No.	Compressed air connection Input [1]	Number of valve positions	Weight
3337120222	Ø 10x1	2	0.277 kg
3337120232	Ø 10x1	3	0.338 kg
3337120242	Ø 10x1	4	0.401 kg
3337120252	Ø 10x1	5	0.462 kg
3337120262	Ø 10x1	6	0.52 kg
3337120272	Ø 10x1	7	0.595 kg
3337120282	Ø 10x1	8	0.64 kg
3337120292	Ø 10x1	9	0.705 kg
3337120302	Ø 10x1	10	0.773 kg
3337120312	Ø 10x1	11	0.82 kg
3337120322	Ø 10x1	12	0.914 kg

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 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

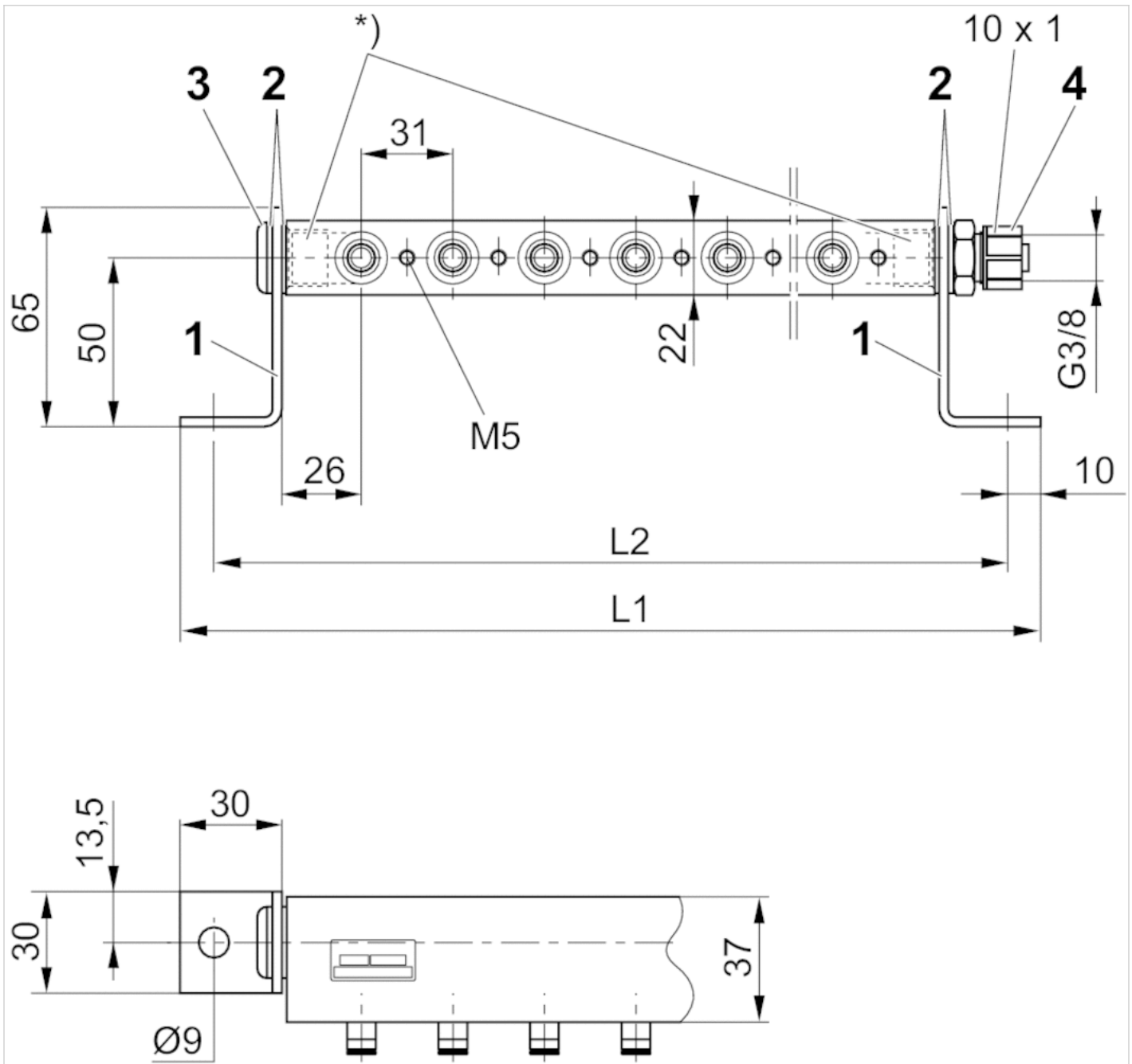
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Aluminum Polyoxymethylene
Seal	Acrylonitrile butadiene rubber
Mounting bracket	Steel

Dimensions

Dimensions



Angled bracket (1), seal DIN 7603 AI (2), blanking screw G 3/8 ISO 228/1 (3), push-in fittings G 3/8 ISO 228/1, diameter 10x1 (4)

* Only use fittings with max. length of thread engagement equal to 12 mm.

Valve mounting screws (depending on the valve used): washer, screw, O-ring must be ordered separately.

Dimensions

Part No.	L1	L2
3337120222	152	132
3337120232	183	163
3337120242	214	194
3337120252	245	225

Part No.	L1	L2
3337120262	276	256
3337120272	307	287
3337120282	338	318
3337120292	369	349
3337120302	400	380
3337120312	431	411
3337120322	462	442

R, P, S subbase, Series CD07



Compressed air connection	according to ISO 228-1
Working pressure min./max.	-0.95 ... 16 bar
Ambient temperature min./max.	-25 ... 80 °C
Medium temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Exhaust (3,5)	With directional exhaust (3/5)
Exhaust type	Ports separated
Weight	See table below

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]
8985072042	G 1/2	G 1/2
8985072062	G 1/2	G 1/2
8985072082	G 1/2	G 1/2
8985072102	G 1/2	G 1/2
8985072122	G 1/2	G 1/2

Part No.	Compressed air connection Pilot connection [X]	Number of valve positions	Weight
8985072042	G 1/8	4	1.45 kg
8985072062	G 1/8	6	1.94 kg
8985072082	G 1/8	8	2.42 kg
8985072102	G 1/8	10	2.94 kg
8985072122	G 1/8	12	3.4 kg

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 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

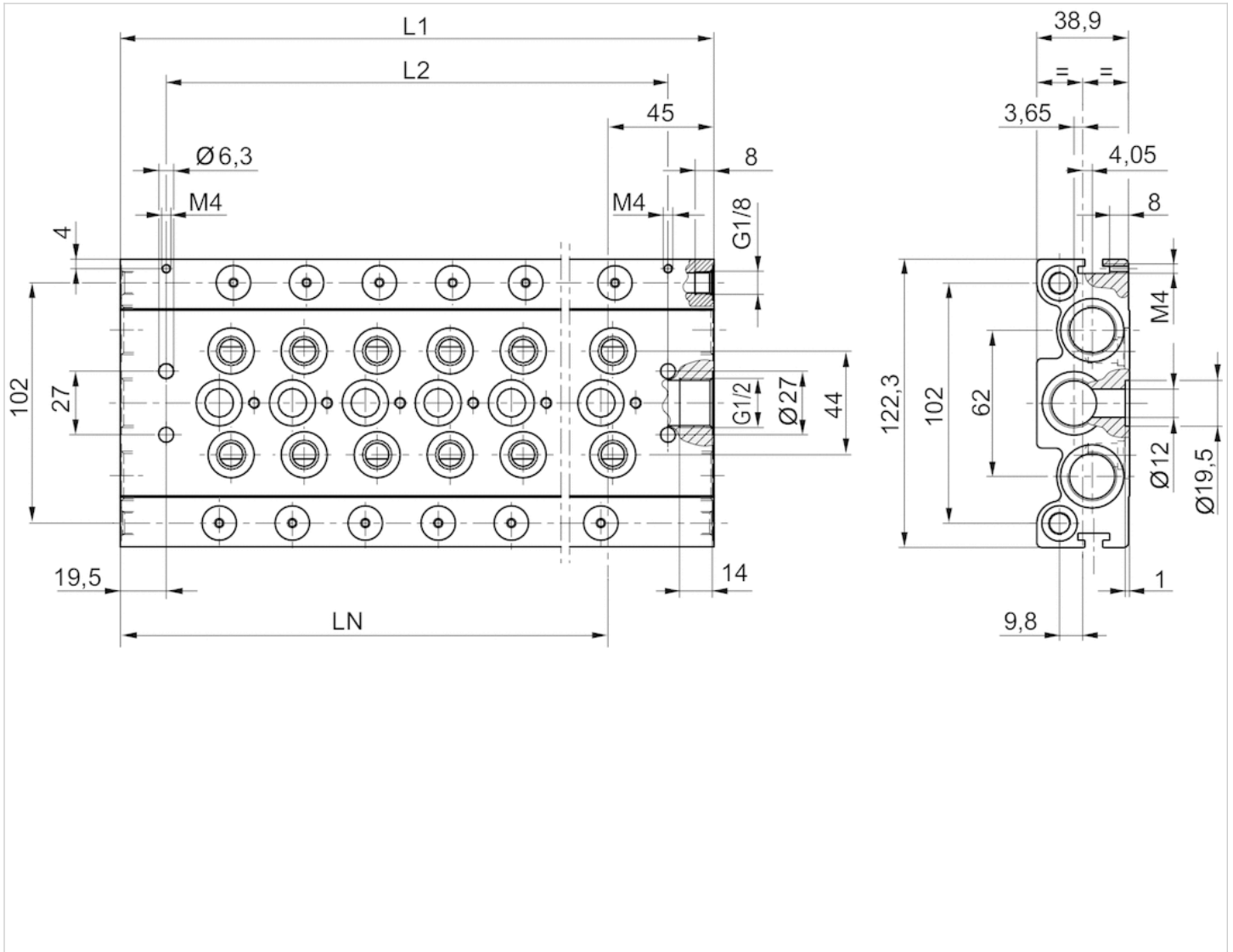
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Aluminum Polyoxymethylene
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.	L1	L2	LN
8985072042	183	144	138
8985072062	245	206	200
8985072082	307	268	262
8985072102	369	330	324
8985072122	431	392	386

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