Series CD12

AVENTICS™ Series CD12

EMERSON.

3/2-directional valve, Series CD12

- 3/2
- Qn = 4000 l/min
- Pilot valve width : 30 mm
- NC/NO
- Pipe connection
- Compressed air connection output : G 1/2
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- -25 °C cold-resistant
- Manual override : with detent, without detent
- single solenoid
- With spring return
- Pilot : Internal External

Version	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Nominal flow Qn	4000 l/min
Nominal flow 1 ▸ 2	4000 l/min
Nominal flow 2 ▸ 3	4000 l/min
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Reverse polarity protection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Weight	See table below

Technical data

Part No.		MO		Compressed air connection
				Input
5724550220			NC/NO	G 1/2
5724555270			NC/NO	G 1/2
5724555280			NC/NO	G 1/2
5724555202			NC/NO	G 1/2
5724560220			NC/NO	G 1/2
5724565270			NC/NO	G 1/2
5724565280			NC/NO	G 1/2
5724565202			NC/NO	G 1/2

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
5724550220	G 1/2	G 1/2
5724555270	G 1/2	G 1/2
5724555280	G 1/2	G 1/2
5724555202	G 1/2	G 1/2
5724560220	G 1/2	G 1/2
5724565270	G 1/2	G 1/2
5724565280	G 1/2	G 1/2
5724565202	G 1/2	G 1/2

Part No.	Compressed air connection	Compressed air connection
	Pilot Input	Pilot Exhaust
5724550220	-	M5
5724555270	-	M5
5724555280	-	M5
5724555202	-	-
5724560220	G 1/8	M5
5724565270	G 1/8	M5
5724565280	G 1/8	M5
5724565202	G 1/8	-

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5724550220	24 V	-	-
5724555270	-	110 V	110 V
5724555280	-	230 V	230 V
5724555202	-	-	-
5724560220	24 V	-	-
5724565270	-	110 V	110 V
5724565280	-	230 V	230 V
5724565202	-	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5724550220	-10% / +10%	-	-	2.1 W
5724555270	-	-20% / +10%	-10% / +20%	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5724555280	-	-20% / +10%	-10% / +20%	-
5724555202	-	-	-	-
5724560220	-10% / +10%	-	-	2.1 W
5724565270	-	-20% / +10%	-10% / +20%	-
5724565280	-	-20% / +10%	-10% / +20%	-
5724565202	-	-	-	-

Part No.	Holding power	Holding power	Switch-on power	Switch-on power	Pilot
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
5724550220	-	-	-	-	Internal
5724555270	4.3 VA	3.3 VA	6.8 VA	5.7 VA	Internal
5724555280	4.4 VA	3.5 VA	6.9 VA	6.2 VA	Internal
5724555202	-	-	-	-	Internal
5724560220	-	-	-	-	External
5724565270	4.3 VA	3.3 VA	6.8 VA	5.7 VA	External
5724565280	4.4 VA	3.5 VA	6.9 VA	6.2 VA	External
5724565202	-	-	-	-	External

Part No.	Working pressure min./max.	Control pressure min./max.	Ambient temperature min./max.
5724550220	2 ... 10 bar	2 ... 10 bar	-25 ... 50 °C
5724555270	2 ... 10 bar	2 ... 10 bar	-25 ... 50 °C
5724555280	2 ... 10 bar	2 ... 10 bar	-25 ... 50 °C
5724555202	2 ... 16 bar	2 ... 16 bar	-25 ... 70 °C
5724560220	-0.95 ... 16 bar	2 ... 10 bar	-25 ... 50 °C
5724565270	-0.95 ... 16 bar	2 ... 10 bar	-25 ... 50 °C
5724565280	-0.95 ... 16 bar	2 ... 10 bar	-25 ... 50 °C
5724565202	-0.95 ... 16 bar	2 ... 16 bar	-25 ... 70 °C

Part No.	Medium temperature min./max.	Typ. switch-on time	Typ. switch-off time	Compatibility index
5724550220	-25 ... 50 °C	34 ms	90 ms	13 14
5724555270	-25 ... 50 °C	34 ms	90 ms	13 14
5724555280	-25 ... 50 °C	34 ms	90 ms	13 14
5724555202	-25 ... 70 °C	-	-	-
5724560220	-25 ... 50 °C	34 ms	90 ms	13 14
5724565270	-25 ... 50 °C	34 ms	90 ms	13 14
5724565280	-25 ... 50 °C	34 ms	90 ms	13 14
5724565202	-25 ... 70 °C	-	-	-

Part No.	Protection class	basic valve with electrical connector
	with connection	
5724550220	IP65	-
5724555270	IP65	-
5724555280	IP65	-
5724555202	-	Basic valve without pilot valve
5724560220	IP65	-
5724565270	IP65	-
5724565280	IP65	-

Part No.	Protection class with connection	basic valve with electrical connector
5724565202	-	Basic valve without pilot valve

Part No.	Reverse polarity protection	ATEX	Weight	
5724550220	Protected against polarity reversal	-	0.85 kg	-
5724555270	Protected against polarity reversal	-	0.85 kg	-
5724555280	Protected against polarity reversal	-	0.85 kg	-
5724555202	-	ATEX optional	0.7 kg	1)
5724560220	Protected against polarity reversal	-	0.85 kg	-
5724565270	Protected against polarity reversal	-	0.85 kg	-
5724565280	Protected against polarity reversal	-	0.85 kg	-
5724565202	-	ATEX optional	0.7 kg	1)

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

1) temperature range for ATEX application: -10 °C ... 60 °C

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).

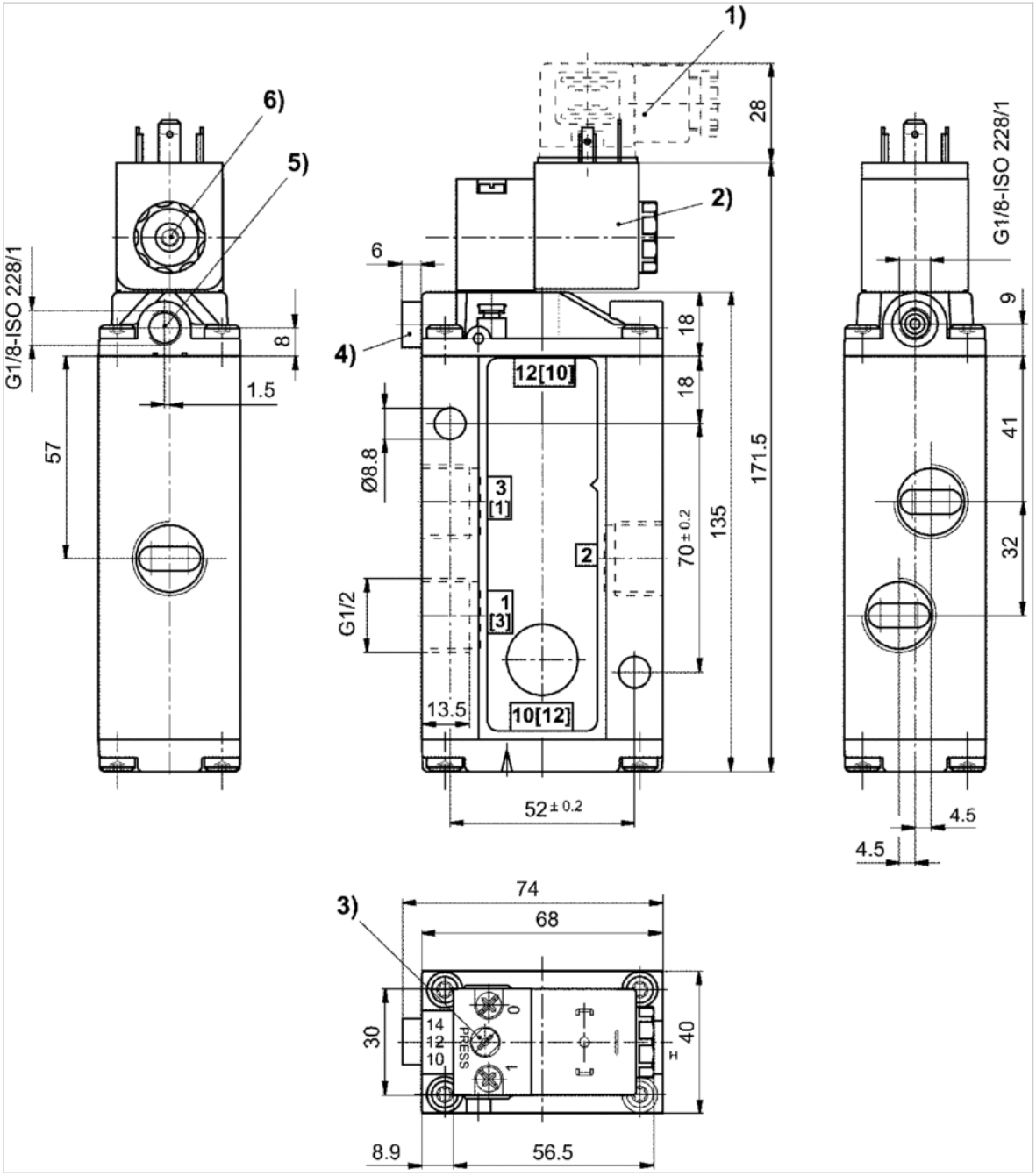
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.
option valve: The input and output compressed air connections can be exchanged.
The valve can thereby be used in the NC or NO operating mode.
*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

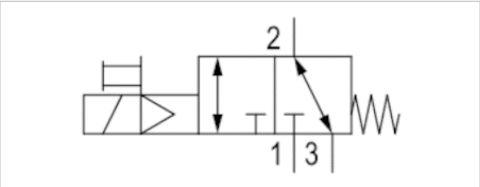
Dimensions



1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override4) Port X (only for externally piloted valves) 5) Exhaust port of piston 6) Pilot valve exhaust, M5

3/2-directional valve, Series CD12

- 3/2
- Qn = 4000 l/min
- Pilot valve width : 30 mm
- NC/NO
- Pipe connection
- Compressed air connection output : M22x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- -25 °C cold-resistant
- Manual override : without detent
- single solenoid
- With spring return
- Pilot : Internal



Version	Spool valve, positive overlapping
Activation	Electrically
Pilot	Internal
Sealing principle	Soft sealing
Working pressure min./max.	2 ... 16 bar
Control pressure min./max.	2 ... 16 bar
Ambient temperature min./max.	-25 ... 50 °C
Medium temperature min./max.	-25 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Nominal flow Qn	4000 l/min
Nominal flow 1 ▸ 2	4000 l/min
Nominal flow 2 ▸ 3	4000 l/min
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	14
Duty cycle	100 %
Typ. switch-on time	34 ms
Typ. switch-off time	90 ms
Weight	0.85 kg

Technical data

Part No.	MO		Compressed air connection	Compressed air connection
			Input	Output
5724500920		NC/NO	M22x1,5	M22x1,5
5724505970		NC/NO	M22x1,5	M22x1,5
5724505980		NC/NO	M22x1,5	M22x1,5

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Exhaust
5724500920	M22x1,5	M5
5724505970	M22x1,5	M5
5724505980	M22x1,5	M5

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5724500920	24 V	-	-
5724505970	-	110 V	110 V
5724505980	-	230 V	230 V

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5724500920	-10% / +10%	-	-	6.7 W
5724505970	-	-20% / +10%	-10% / +20%	-
5724505980	-	-20% / +10%	-10% / +20%	-

Part No.	Holding power	Holding power	Switch-on power	Switch-on power
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
5724500920	-	-	-	-
5724505970	10.5 VA	7.6 VA	14.5 VA	12 VA
5724505980	10.8 VA	7.8 VA	15.2 VA	12.7 VA

Nominal flow Qn at 6 bar and Δp = 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).

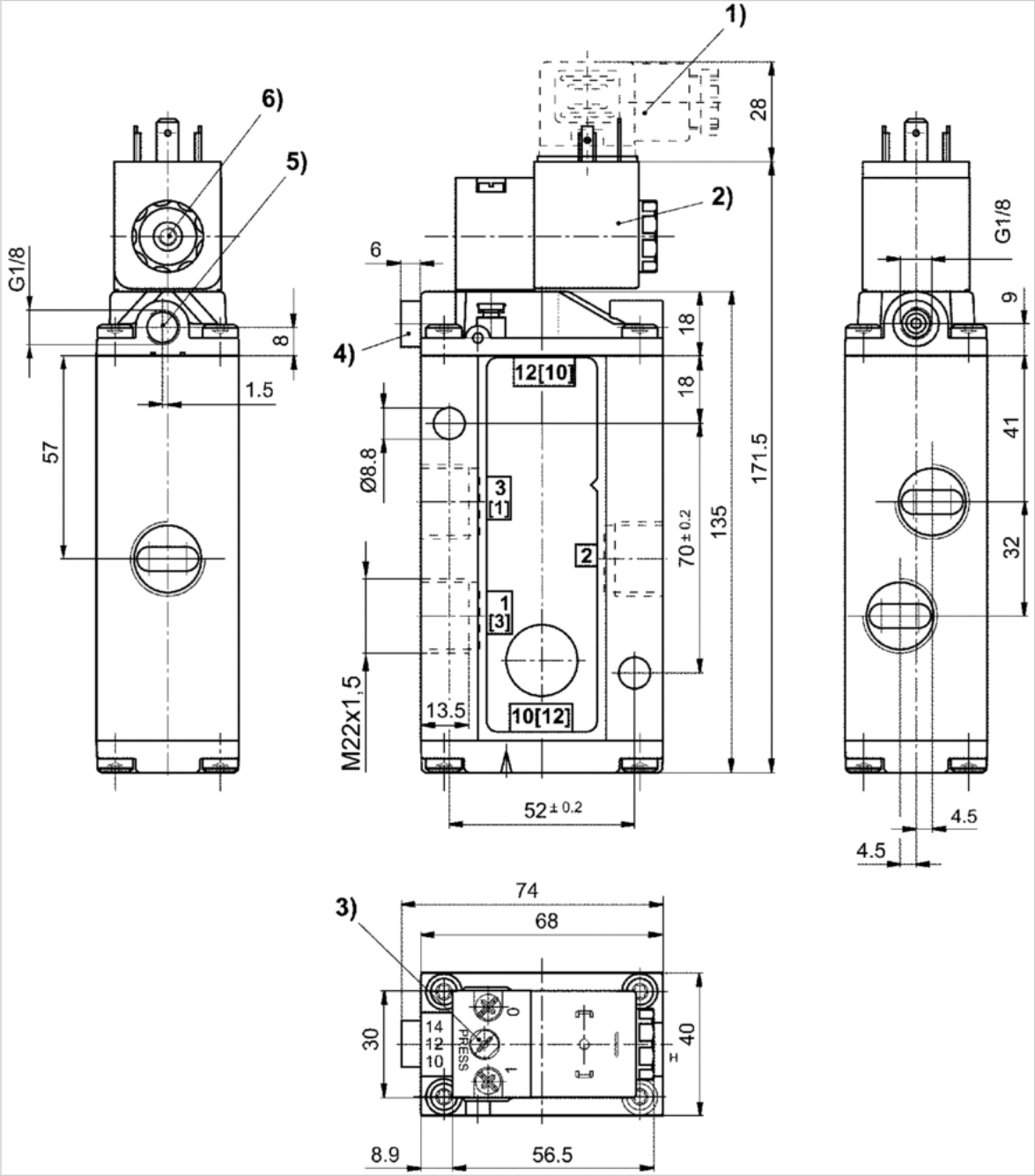
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.
option valve: The input and output compressed air connections can be exchanged.
The valve can thereby be used in the NC or NO operating mode.
*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Dimensions



1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override4) Port X (only for externally piloted valves) 5) Exhaust port of piston 6) Pilot valve exhaust, M5

5/2-directional valve, Series CD12

- 5/2
- Qn = 4100 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/2
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without detent
- single solenoid
- Pilot : Internal External

Version	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Nominal flow Qn	4100 l/min
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
Reverse polarity protection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	Compressed air connection
			Input	Output
5725450220			G 1/2	G 1/2
5725455270			G 1/2	G 1/2
5725455280			G 1/2	G 1/2
5725455202		–	G 1/2	G 1/2
5725455302		–	G 1/2	G 1/2
5725470220			G 1/2	G 1/2
5725475270			G 1/2	G 1/2
5725475280			G 1/2	G 1/2
5725475202		–	G 1/2	G 1/2
R412008096		–	G 1/2	G 1/2
5725480220			G 1/2	G 1/2
5725485270			G 1/2	G 1/2
5725485280			G 1/2	G 1/2
5725485202		–	G 1/2	G 1/2

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
5725450220	G 1/2	-
5725455270	G 1/2	-
5725455280	G 1/2	-
5725455202	G 1/2	-
5725455302	G 1/2	-
5725470220	G 1/2	-
5725475270	G 1/2	-
5725475280	G 1/2	-
5725475202	G 1/2	-
R412008096	G 1/2	-
5725480220	G 1/2	G 1/8
5725485270	G 1/2	G 1/8
5725485280	G 1/2	G 1/8
5725485202	G 1/2	G 1/8

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Pilot Exhaust	DC	AC 50 Hz
5725450220	M5	24 V	-
5725455270	M5	-	110 V
5725455280	M5	-	230 V
5725455202	-	-	-
5725455302	M5	-	-
5725470220	M5	24 V	-
5725475270	M5	-	110 V
5725475280	M5	-	230 V
5725475202	-	-	-
R412008096	-	-	-
5725480220	M5	24 V	-

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Pilot Exhaust	DC	AC 50 Hz
5725485270	M5	-	110 V
5725485280	M5	-	230 V
5725485202	-	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5725450220	-	-10% / +10%	-	-
5725455270	110 V	-	-20% / +10%	-10% / +20%
5725455280	230 V	-	-20% / +10%	-10% / +20%
5725455202	-	-	-	-
5725455302	-	-	-	-
5725470220	-	-10% / +10%	-	-
5725475270	110 V	-	-20% / +10%	-10% / +20%
5725475280	230 V	-	-20% / +10%	-10% / +20%
5725475202	-	-	-	-
R412008096	-	-	-	-
5725480220	-	-10% / +10%	-	-
5725485270	110 V	-	-20% / +10%	-10% / +20%
5725485280	230 V	-	-20% / +10%	-10% / +20%
5725485202	-	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5725450220	2.1 W	-	-	-
5725455270	-	4.3 VA	3.3 VA	6.8 VA
5725455280	-	4.4 VA	3.5 VA	6.9 VA
5725455202	-	-	-	-
5725455302	-	-	-	-
5725470220	2.1 W	-	-	-
5725475270	-	4.3 VA	3.3 VA	6.8 VA
5725475280	-	4.4 VA	3.5 VA	6.9 VA
5725475202	-	-	-	-
R412008096	-	-	-	-
5725480220	2.1 W	-	-	-
5725485270	-	4.3 VA	3.3 VA	6.8 VA
5725485280	-	4.4 VA	3.5 VA	6.9 VA
5725485202	-	-	-	-

Part No.	Switch-on power	Pilot	Working pressure min./max.	Control pressure min./max.
	AC 60 Hz			
5725450220	-	Internal	2 ... 10 bar	2 ... 10 bar
5725455270	5.7 VA	Internal	2 ... 10 bar	2 ... 10 bar
5725455280	6.2 VA	Internal	2 ... 10 bar	2 ... 10 bar
5725455202	-	Internal	2 ... 16 bar	2 ... 16 bar
5725455302	-	Internal	2 ... 10 bar	2 ... 10 bar
5725470220	-	Internal	2 ... 10 bar	2 ... 10 bar
5725475270	5.7 VA	Internal	2 ... 10 bar	2 ... 10 bar
5725475280	6.2 VA	Internal	2 ... 10 bar	2 ... 10 bar

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Control pressure min./max.
5725475202	-	Internal	2 ... 16 bar	2 ... 16 bar
R412008096	-	Internal	2 ... 10 bar	2 ... 10 bar
5725480220	-	External	-0.95 ... 16 bar	2 ... 10 bar
5725485270	5.7 VA	External	-0.95 ... 16 bar	2 ... 10 bar
5725485280	6.2 VA	External	-0.95 ... 16 bar	2 ... 10 bar
5725485202	-	External	-0.95 ... 16 bar	2 ... 10 bar

Part No.	Ambient temperature min./max.	Medium temperature min./max.	Typ. switch-on time
5725450220	-25 ... 50 °C	-25 ... 50 °C	37 ms
5725455270	-25 ... 50 °C	-25 ... 50 °C	37 ms
5725455280	-25 ... 50 °C	-25 ... 50 °C	37 ms
5725455202	-25 ... 70 °C	-25 ... 70 °C	-
5725455302	-25 ... 50 °C	-25 ... 50 °C	-
5725470220	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725475270	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725475280	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725475202	-15 ... 70 °C	-15 ... 70 °C	-
R412008096	-15 ... 50 °C	-15 ... 50 °C	-
5725480220	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725485270	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725485280	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725485202	-15 ... 70 °C	-15 ... 70 °C	-

Part No.	Typ. switch-off time	Compatibility index	Protection class with connection	basic valve with electrical connector
5725450220	97 ms	13 14	IP65	-
5725455270	97 ms	13 14	IP65	-
5725455280	97 ms	13 14	IP65	-
5725455202	-	-	-	Basic valve without pilot valve
5725455302	-	-	-	Basic valve without coil
5725470220	97 ms	13 14	IP65	-
5725475270	97 ms	13 14	IP65	-
5725475280	97 ms	13 14	IP65	-
5725475202	-	-	-	Basic valve without pilot valve
R412008096	-	13 14	-	Basic valve without coil
5725480220	97 ms	13 14	IP65	-
5725485270	97 ms	13 14	IP65	-
5725485280	97 ms	13 14	IP65	-
5725485202	97 ms	-	-	Basic valve without pilot valve

Part No.	Reverse polarity protection	ATEX	Weight	
5725450220	Protected against polarity reversal	-	1 kg	-
5725455270	Protected against polarity reversal	-	1 kg	-
5725455280	Protected against polarity reversal	-	1 kg	-
5725455202	-	ATEX optional	0.85 kg	1)
5725455302	-	ATEX optional	0.85 kg	-
5725470220	Protected against polarity reversal	-	1 kg	-

Part No.	Reverse polarity protection	ATEX	Weight	
5725475270	Protected against polarity reversal	-	1 kg	-
5725475280	Protected against polarity reversal	-	1 kg	-
5725475202	-	ATEX optional	0.85 kg	1)
R412008096	-	ATEX optional	0.85 kg	2)
5725480220	Protected against polarity reversal	-	1 kg	-
5725485270	Protected against polarity reversal	-	1 kg	-
5725485280	Protected against polarity reversal	-	1 kg	-
5725485202	-	ATEX optional	1 kg	-

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

1) temperature range for ATEX application: -10 °C ... 60 °C

2) Exhaust cap

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).

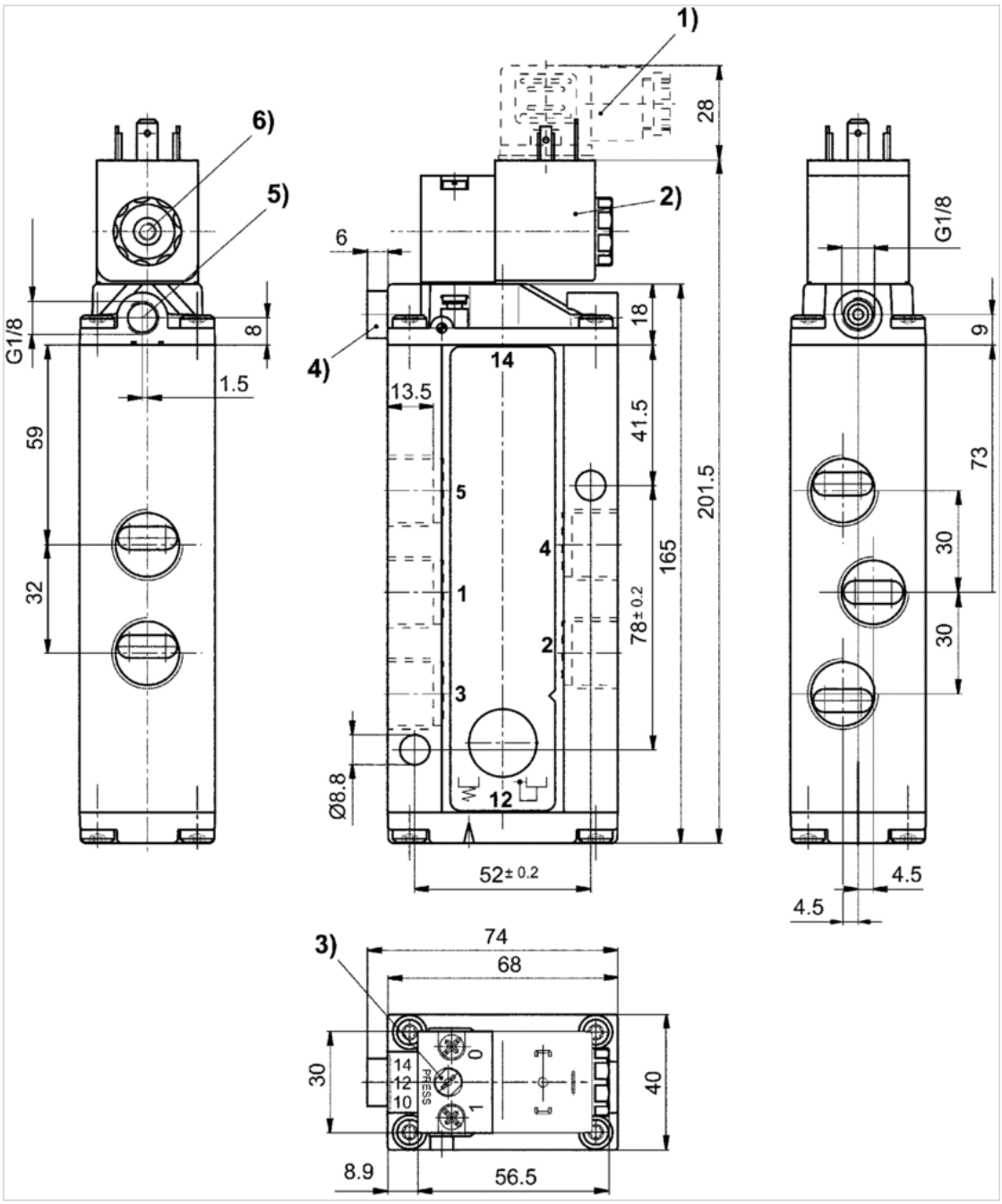
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.
*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Dimensions



1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override4) Port X (only for externally piloted valves) 5) Exhaust port of piston 6) Pilot valve exhaust, M5

5/2-directional valve, Series CD12

- 5/2
- Qn = 4100 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : M22x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- -25 °C cold-resistant
- Manual override : with detent, without detent
- single solenoid
- Pilot : Internal External

Version	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Nominal flow Qn	4100 l/min
Pilot control exhaust	with directional pilot air exhaust
Reverse polarity protection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	Compressed air connection
			Input	Output
5725400220			M22x1,5	M22x1,5
5725405270			M22x1,5	M22x1,5
5725405280			M22x1,5	M22x1,5
5725405202		–	M22x1,5	M22x1,5
R412013341			M22x1,5	M22x1,5
R412013342			M22x1,5	M22x1,5
R412000243		–	M22x1,5	M22x1,5
R412000242		–	M22x1,5	M22x1,5

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
5725400220	M22x1,5	-
5725405270	M22x1,5	-
5725405280	M22x1,5	-
5725405202	M22x1,5	-
R412013341	M22x1,5	-
R412013342	M22x1,5	-
R412000243	M22x1,5	-
R412000242	M22x1,5	G 1/8

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Pilot Exhaust	DC	AC 50 Hz
5725400220	M5	24 V	-
5725405270	M5	-	110 V
5725405280	M5	-	230 V
5725405202	-	-	-
R412013341	M5	24 V	-
R412013342	M5	-	230 V
R412000243	-	-	-
R412000242	-	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5725400220	-	-10% / +10%	-	-
5725405270	110 V	-	-20% / +10%	-10% / +20%
5725405280	230 V	-	-20% / +10%	-10% / +20%
5725405202	-	-	-	-
R412013341	-	-10% / +10%	-	-
R412013342	230 V	-	-20% / +10%	-10% / +20%
R412000243	-	-	-	-
R412000242	-	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5725400220	2.1 W	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5725405270	-	4.3 VA	3.3 VA	6.8 VA
5725405280	-	4.4 VA	3.5 VA	6.9 VA
5725405202	-	-	-	-
R412013341	2.1 W	-	-	-
R412013342	-	4.4 VA	3.5 VA	6.9 VA
R412000243	-	-	-	-
R412000242	-	-	-	-

Part No.	Switch-on power	Pilot	Working pressure min./max.	Control pressure min./max.
	AC 60 Hz			
5725400220	-	Internal	2 ... 10 bar	2 ... 10 bar
5725405270	5.7 VA	Internal	2 ... 10 bar	2 ... 10 bar
5725405280	6.2 VA	Internal	2 ... 10 bar	2 ... 10 bar
5725405202	-	Internal	2 ... 16 bar	2 ... 16 bar
R412013341	-	Internal	2 ... 10 bar	2 ... 10 bar
R412013342	6.2 VA	Internal	2 ... 10 bar	2 ... 10 bar
R412000243	-	Internal	2 ... 16 bar	2 ... 16 bar
R412000242	-	External	-0.95 ... 16 bar	2 ... 10 bar

Part No.	Ambient temperature min./max.	Medium temperature min./max.	Typ. switch-on time
5725400220	-25 ... 50 °C	-25 ... 50 °C	37 ms
5725405270	-25 ... 50 °C	-25 ... 50 °C	37 ms
5725405280	-25 ... 50 °C	-25 ... 50 °C	37 ms
5725405202	-25 ... 70 °C	-25 ... 70 °C	-
R412013341	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412013342	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000243	-15 ... 70 °C	-15 ... 70 °C	-
R412000242	-15 ... 70 °C	-15 ... 70 °C	-

Part No.	Typ. switch-off time	Compatibility index	Protection class	basic valve with electrical connector
			with connection	
5725400220	97 ms	13 14	IP65	-
5725405270	97 ms	13 14	IP65	-
5725405280	97 ms	13 14	IP65	-
5725405202	-	-	-	Basic valve without pilot valve
R412013341	97 ms	13 14	IP65	-
R412013342	97 ms	14	IP65	-
R412000243	-	-	-	Basic valve without pilot valve
R412000242	97 ms	-	-	Basic valve without pilot valve

Part No.	Reverse polarity protection	ATEX	Weight
5725400220	Protected against polarity reversal	-	0.99 kg
5725405270	Protected against polarity reversal	-	0.99 kg
5725405280	Protected against polarity reversal	-	0.99 kg
5725405202	-	ATEX optional	0.84 kg
R412013341	Protected against polarity reversal	-	1 kg
R412013342	Protected against polarity reversal	-	1 kg

Part No.	Reverse polarity protection	ATEX	Weight
R412000243	-	ATEX optional	0.84 kg
R412000242	-	ATEX optional	1 kg

Base valves without pilot valves can be combined with DO30 series valves., Nominal flow Qn at 6 bar and Δp = 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).

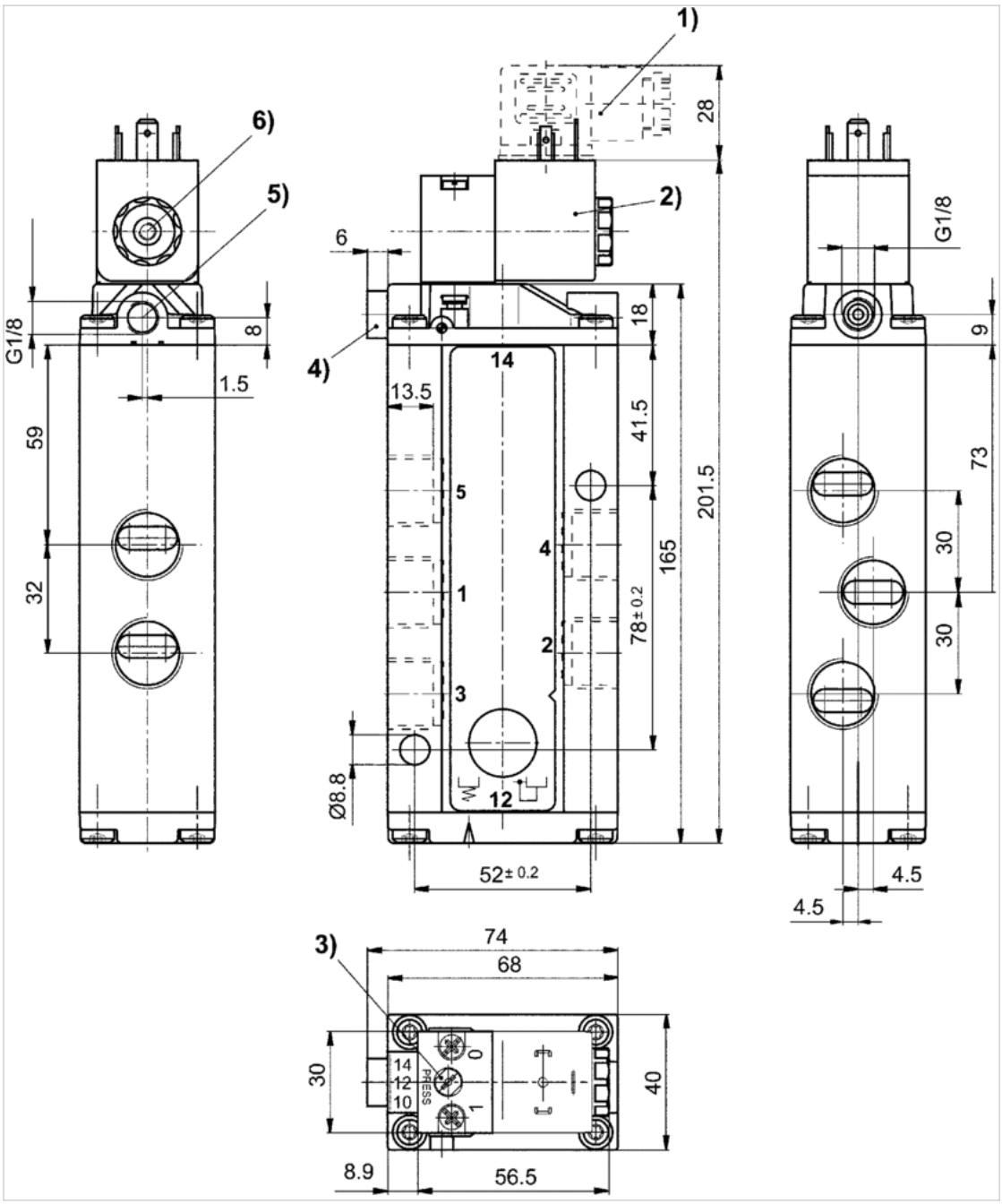
*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Dimensions



1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override4) Port X (only for externally piloted valves) 5) Exhaust port of piston 6) Pilot valve exhaust, M5

5/2-directional valve, Series CD12

- 5/2
- Qn = 4100 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/2
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- -25 °C cold-resistant
- Manual override : with detent, without detent
- double solenoid
- Pilot : Internal External

Version	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Nominal flow Qn	4100 l/min
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Reverse polarity protection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	Compressed air connection
			Input	Output
R412008097			G 1/2	G 1/2
5725550220			G 1/2	G 1/2
5725555270			G 1/2	G 1/2
5725555280			G 1/2	G 1/2
5725555202		—	G 1/2	G 1/2
5725560220			G 1/2	G 1/2
5725565270			G 1/2	G 1/2
5725565280			G 1/2	G 1/2
5725565202		—	G 1/2	G 1/2

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
R412008097	G 1/2	-
5725550220	G 1/2	-
5725555270	G 1/2	-
5725555280	G 1/2	-
5725555202	G 1/2	-
5725560220	G 1/2	G 1/8
5725565270	G 1/2	G 1/8
5725565280	G 1/2	G 1/8
5725565202	G 1/2	G 1/8

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Pilot Exhaust	DC	AC 50 Hz
R412008097	-	-	-
5725550220	M5	24 V	-
5725555270	M5	-	110 V
5725555280	M5	-	230 V
5725555202	-	-	-
5725560220	M5	24 V	-
5725565270	M5	-	110 V
5725565280	M5	-	230 V
5725565202	-	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
R412008097	-	-	-	-
5725550220	-	-10% / +10%	-	-
5725555270	110 V	-	-20% / +10%	-10% / +20%
5725555280	230 V	-	-20% / +10%	-10% / +20%
5725555202	-	-	-	-
5725560220	-	-10% / +10%	-	-
5725565270	110 V	-	-20% / +10%	-10% / +20%
5725565280	230 V	-	-20% / +10%	-10% / +20%
5725565202	-	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R412008097	-	-	-	-
5725550220	2.1 W	-	-	-
5725555270	-	4.3 VA	3.3 VA	6.8 VA
5725555280	-	4.4 VA	3.5 VA	6.9 VA
5725555202	-	-	-	-
5725560220	2.1 W	-	-	-
5725565270	-	4.3 VA	3.3 VA	6.8 VA
5725565280	-	4.4 VA	3.5 VA	6.9 VA
5725565202	-	-	-	-

Part No.	Switch-on power	Pilot	Working pressure min./max.	Control pressure min./max.
	AC 60 Hz			
R412008097	-	Internal	2 ... 10 bar	2 ... 10 bar
5725550220	-	Internal	2 ... 10 bar	2 ... 10 bar
5725555270	5.7 VA	Internal	2 ... 10 bar	2 ... 10 bar
5725555280	6.2 VA	Internal	2 ... 10 bar	2 ... 10 bar
5725555202	-	Internal	2 ... 16 bar	2 ... 16 bar
5725560220	-	External	-0.95 ... 16 bar	2 ... 10 bar
5725565270	5.7 VA	External	-0.95 ... 16 bar	2 ... 10 bar
5725565280	6.2 VA	External	-0.95 ... 16 bar	2 ... 10 bar
5725565202	-	External	-0.95 ... 16 bar	2 ... 16 bar

Part No.	Ambient temperature min./max.	Medium temperature min./max.	Typ. switch-on time
R412008097	-25 ... 50 °C	-25 ... 50 °C	-
5725550220	-25 ... 50 °C	-25 ... 50 °C	36 ms
5725555270	-25 ... 50 °C	-25 ... 50 °C	36 ms
5725555280	-25 ... 50 °C	-25 ... 50 °C	36 ms
5725555202	-25 ... 70 °C	-25 ... 70 °C	-
5725560220	-25 ... 50 °C	-25 ... 50 °C	36 ms
5725565270	-25 ... 50 °C	-25 ... 50 °C	36 ms
5725565280	-25 ... 50 °C	-25 ... 50 °C	36 ms
5725565202	-25 ... 70 °C	-25 ... 70 °C	-

Part No.	Typ. switch-off time	Compatibility index	Protection class	basic valve with electrical connector
			with connection	
R412008097	-	13 14	-	Basic valve without coil
5725550220	36 ms	13 14	IP65	-
5725555270	36 ms	13 14	IP65	-
5725555280	36 ms	13 14	IP65	-
5725555202	-	-	-	Basic valve without pilot valve
5725560220	36 ms	13 14	IP65	-
5725565270	36 ms	13 14	IP65	-
5725565280	36 ms	13 14	IP65	-
5725565202	-	-	-	Basic valve without pilot valve

Part No.	Reverse polarity protection	ATEX	Weight	
R412008097	-	ATEX optional	0.9 kg	1)

Part No.	Reverse polarity protection	ATEX	Weight	
5725550220	Protected against polarity reversal	-	1.2 kg	-
5725555270	Protected against polarity reversal	-	1.2 kg	-
5725555280	Protected against polarity reversal	-	1.2 kg	-
5725555202	-	ATEX optional	0.9 kg	-
5725560220	Protected against polarity reversal	-	1.2 kg	-
5725565270	Protected against polarity reversal	-	1.2 kg	-
5725565280	Protected against polarity reversal	-	1.2 kg	-
5725565202	-	ATEX optional	0.9 kg	-

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

1) Exhaust cap

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).

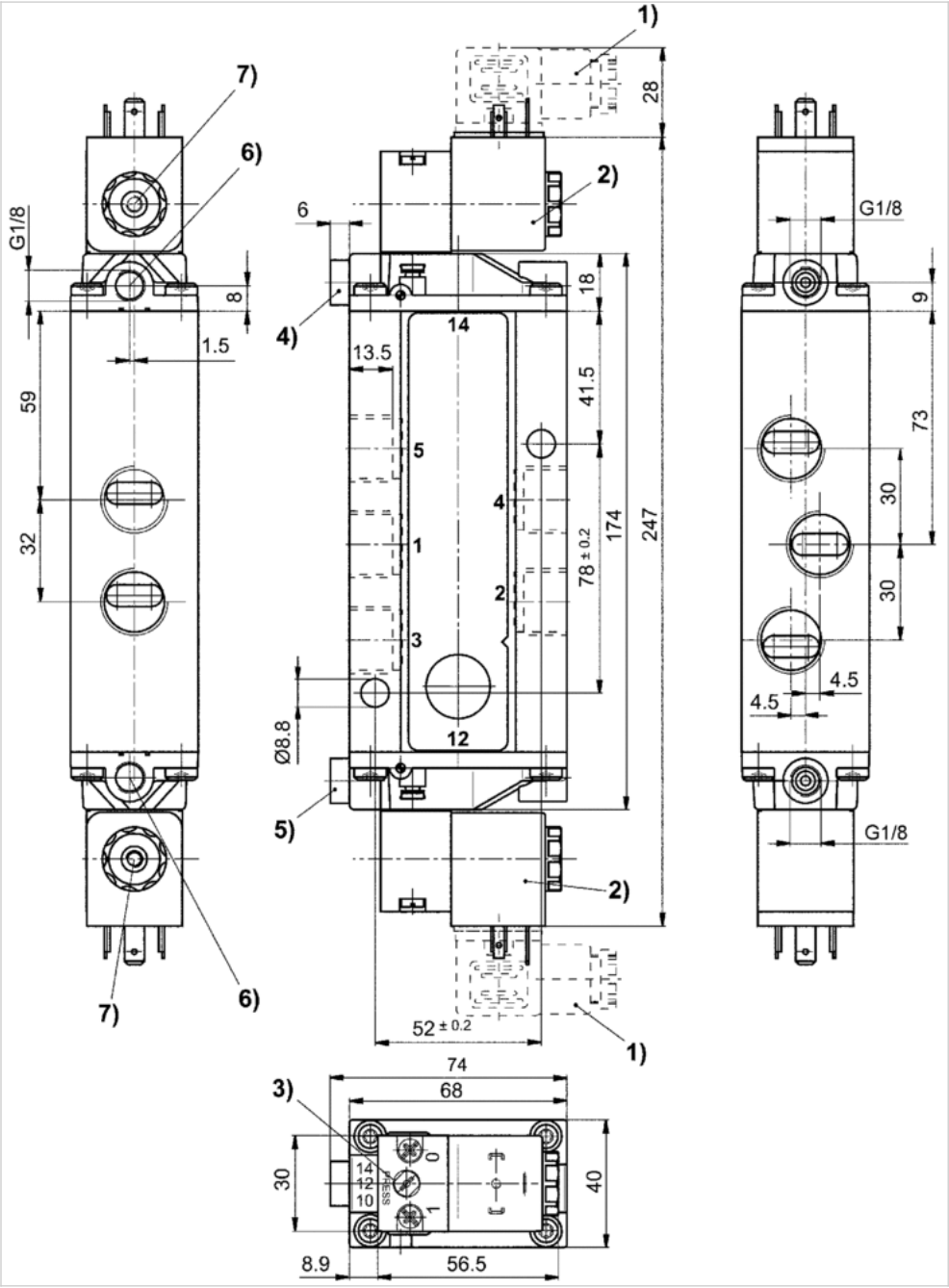
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.
*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Dimensions



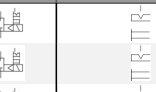
1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override4) Port X, side 14 5) Port X, side 12 6) Port without function 7) Pilot valve exhaust, M5

5/2-directional valve, Series CD12

- 5/2
- Qn = 4100 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : M22x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- -25 °C cold-resistant
- Manual override : with detent, without detent
- double solenoid
- Pilot : Internal External

Version	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Nominal flow Qn	4100 l/min
Pilot control exhaust	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Reverse polarity protection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	Compressed air connection
			Input	Output
5725500220			M22x1,5	M22x1,5
5725505270			M22x1,5	M22x1,5
5725505280			M22x1,5	M22x1,5
5725505202		—	M22x1,5	M22x1,5
R412000244		—	M22x1,5	M22x1,5

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
5725500220	M22x1,5	-
5725505270	M22x1,5	-
5725505280	M22x1,5	-
5725505202	M22x1,5	-
R412000244	M22x1,5	G 1/8

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Pilot Exhaust	DC	AC 50 Hz
5725500220	M5	24 V	-
5725505270	M5	-	110 V
5725505280	M5	-	230 V
5725505202	-	-	-
R412000244	-	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5725500220	-	-10% / +10%	-	-
5725505270	110 V	-	-20% / +10%	-10% / +20%
5725505280	230 V	-	-20% / +10%	-10% / +20%
5725505202	-	-	-	-
R412000244	-	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5725500220	2.1 W	-	-	-
5725505270	-	4.3 VA	3.3 VA	6.8 VA
5725505280	-	4.4 VA	3.5 VA	6.9 VA
5725505202	-	-	-	-
R412000244	-	-	-	-

Part No.	Switch-on power	Pilot	Working pressure min./max.	Control pressure min./max.
	AC 60 Hz			
5725500220	-	Internal	2 ... 10 bar	2 ... 16 bar
5725505270	5.7 VA	Internal	2 ... 10 bar	2 ... 10 bar
5725505280	6.2 VA	Internal	2 ... 10 bar	2 ... 10 bar
5725505202	-	Internal	2 ... 16 bar	2 ... 16 bar
R412000244	-	External	-0.95 ... 16 bar	2 ... 16 bar

Part No.	Ambient temperature min./max.	Medium temperature min./max.	Typ. switch-on time
5725500220	-25 ... 50 °C	-25 ... 50 °C	36 ms
5725505270	-25 ... 50 °C	-25 ... 50 °C	36 ms
5725505280	-15 ... 50 °C	-15 ... 50 °C	36 ms
5725505202	-25 ... 70 °C	-25 ... 70 °C	-
R412000244	-25 ... 70 °C	-25 ... 70 °C	-

Part No.	Typ. switch-off time	Compatibility index	Protection class with connection	basic valve with electrical connector
5725500220	36 ms	13 14	IP65	-
5725505270	36 ms	13 14	IP65	-
5725505280	36 ms	13 14	IP65	-
5725505202	-	-	-	Basic valve without pilot valve
R412000244	-	-	-	Basic valve without pilot valve

Part No.	Reverse polarity protection	ATEX	Weight
5725500220	Protected against polarity reversal	-	1.1 kg
5725505270	Protected against polarity reversal	-	1.1 kg
5725505280	Protected against polarity reversal	-	1.1 kg
5725505202	-	ATEX optional	0.8 kg
R412000244	-	ATEX optional	0.9 kg

Base valves without pilot valves can be combined with DO30 series valves., Nominal flow Qn at 6 bar and Δp = 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).

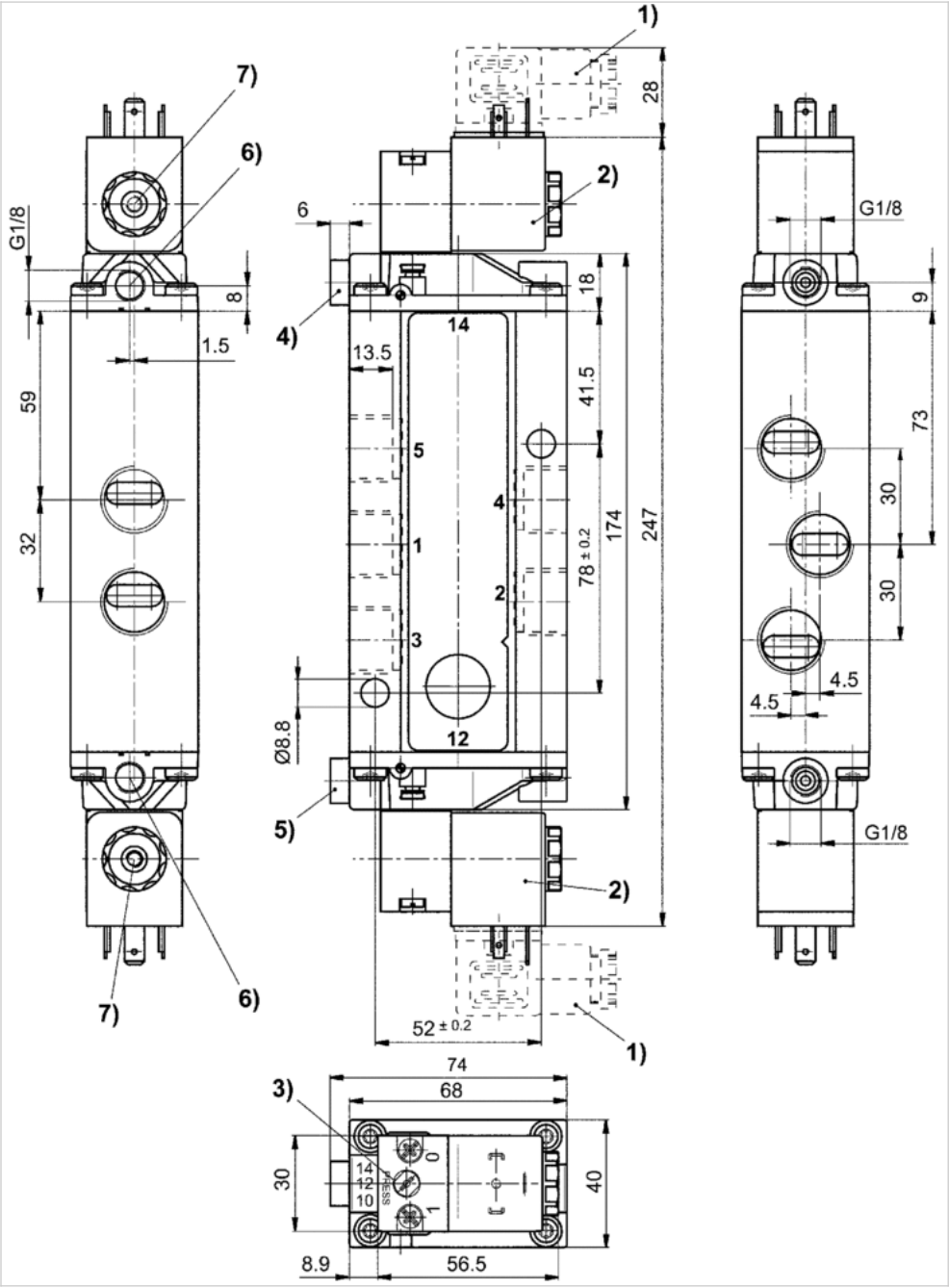
*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Dimensions



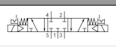
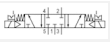
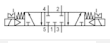
1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override4) Port X, side 14 5) Port X, side 12 6) Port without function 7) Pilot valve exhaust, M5

5/3-directional valve, Series CD12

- 5/3
- Qn = 3800 l/min
- Pilot valve width : 30 mm
- closed center exhausted center pressurized center
- Pipe connection
- Compressed air connection output : G 1/2
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without detent
- double solenoid
- With spring return
- Pilot : Internal External

Version	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Nominal flow Qn	See table below
Nominal flow 1 ▸ 2	See table below
Nominal flow 2 ▸ 3	See table below
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Reverse polarity protection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Weight	See table below

Technical data

Part No.		MO		Compressed air connection
				Input
5725650220			closed center	G 1/2
5725650920			closed center	G 1/2
5725655270			closed center	G 1/2
5725655280			closed center	G 1/2
5725655980			closed center	G 1/2
5725655202		—	closed center	G 1/2
R412008098			closed center	G 1/2
R412000127			closed center	G 1/2
R412000148			closed center	G 1/2
R412000149			closed center	G 1/2
R412000151		—	closed center	G 1/2
R412000224			exhausted center	G 1/2
R412000225			exhausted center	G 1/2
R412000230			exhausted center	G 1/2
R412000237		—	exhausted center	G 1/2
5725680220			exhausted center	G 1/2
5725685270			exhausted center	G 1/2
5725685280			exhausted center	G 1/2
5725685202		—	exhausted center	G 1/2
R412000219			pressurized center	G 1/2
R412000220			pressurized center	G 1/2
R412000221			pressurized center	G 1/2
R412000222		—	pressurized center	G 1/2
R412000153			pressurized center	G 1/2
R412000154			pressurized center	G 1/2
R412000157			pressurized center	G 1/2
R412000160		—	pressurized center	G 1/2

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
5725650220	G 1/2	G 1/2
5725650920	G 1/2	G 1/2
5725655270	G 1/2	G 1/2
5725655280	G 1/2	G 1/2
5725655980	G 1/2	G 1/2
5725655202	G 1/2	G 1/2
R412008098	G 1/2	G 1/2
R412000127	G 1/2	G 1/2
R412000148	G 1/2	G 1/2
R412000149	G 1/2	G 1/2
R412000151	G 1/2	G 1/2
R412000224	G 1/2	G 1/2
R412000225	G 1/2	G 1/2
R412000230	G 1/2	G 1/2
R412000237	G 1/2	G 1/2
5725680220	G 1/2	G 1/2

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
5725685270	G 1/2	G 1/2
5725685280	G 1/2	G 1/2
5725685202	G 1/2	G 1/2
R412000219	G 1/2	G 1/2
R412000220	G 1/2	G 1/2
R412000221	G 1/2	G 1/2
R412000222	G 1/2	G 1/2
R412000153	G 1/2	G 1/2
R412000154	G 1/2	G 1/2
R412000157	G 1/2	G 1/2
R412000160	G 1/2	G 1/2

Part No.	Compressed air connection	Compressed air connection
	Pilot Input	Pilot Exhaust
5725650220	-	M5
5725650920	-	-
5725655270	-	M5
5725655280	-	M5
5725655980	-	-
5725655202	-	-
R412008098	-	M5
R412000127	G 1/8	M5
R412000148	G 1/8	M5
R412000149	G 1/8	M5
R412000151	G 1/8	-
R412000224	-	M5
R412000225	-	M5
R412000230	-	M5
R412000237	-	-
5725680220	G 1/8	M5
5725685270	G 1/8	M5
5725685280	G 1/8	M5
5725685202	G 1/8	-
R412000219	-	M5
R412000220	-	M5
R412000221	-	M5
R412000222	-	-
R412000153	G 1/8	M5
R412000154	G 1/8	M5
R412000157	G 1/8	M5
R412000160	G 1/8	-

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5725650220	24 V	-	-
5725650920	24 V	-	-
5725655270	-	110 V	110 V
5725655280	-	230 V	230 V

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5725655980	-	230 V	230 V
5725655202	-	-	-
R412008098	-	-	-
R412000127	24 V	-	-
R412000148	-	110 V	110 V
R412000149	-	230 V	230 V
R412000151	-	-	-
R412000224	24 V	-	-
R412000225	-	110 V	110 V
R412000230	-	230 V	230 V
R412000237	-	-	-
5725680220	24 V	-	-
5725685270	-	110 V	110 V
5725685280	-	230 V	230 V
5725685202	-	-	-
R412000219	24 V	-	-
R412000220	-	110 V	110 V
R412000221	-	230 V	230 V
R412000222	-	-	-
R412000153	24 V	-	-
R412000154	-	110 V	110 V
R412000157	-	230 V	230 V
R412000160	-	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5725650220	-10% / +10%	-	-	2.1 W
5725650920	-10% / +10%	-	-	2.1 W
5725655270	-	-20% / +10%	-10% / +20%	-
5725655280	-	-20% / +10%	-10% / +20%	-
5725655980	-	-20% / +10%	-10% / +20%	-
5725655202	-	-	-	-
R412008098	-	-	-	-
R412000127	-10% / +10%	-	-	2.1 W
R412000148	-	-20% / +10%	-10% / +20%	-
R412000149	-	-20% / +10%	-10% / +20%	-
R412000151	-	-	-	-
R412000224	-10% / +10%	-	-	2.1 W
R412000225	-	-20% / +10%	-10% / +20%	-
R412000230	-	-20% / +10%	-10% / +20%	-
R412000237	-	-	-	-
5725680220	-10% / +10%	-	-	2.1 W
5725685270	-	-20% / +10%	-10% / +20%	-
5725685280	-	-20% / +10%	-10% / +20%	-
5725685202	-	-	-	-
R412000219	-10% / +10%	-	-	2.1 W
R412000220	-	-20% / +10%	-10% / +20%	-
R412000221	-	-20% / +10%	-10% / +20%	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
R412000222	-	-	-	-
R412000153	-10% / +10%	-	-	2.1 W
R412000154	-	-20% / +10%	-10% / +20%	-
R412000157	-	-20% / +10%	-10% / +20%	-
R412000160	-	-	-	-

Part No.	Holding power	Holding power	Switch-on power	Switch-on power	Pilot
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
5725650220	-	-	-	-	Internal
5725650920	-	-	-	-	Internal
5725655270	4.3 VA	3.3 VA	6.8 VA	5.7 VA	Internal
5725655280	4.4 VA	3.5 VA	6.9 VA	6.2 VA	Internal
5725655980	4.4 VA	3.5 VA	6.9 VA	6.2 VA	Internal
5725655202	-	-	-	-	Internal
R412008098	-	-	-	-	Internal
R412000127	-	-	-	-	External
R412000148	4.3 VA	3.3 VA	6.8 VA	5.7 VA	External
R412000149	4.4 VA	3.5 VA	6.9 VA	6.2 VA	External
R412000151	-	-	-	-	External
R412000224	-	-	-	-	Internal
R412000225	4.3 VA	3.3 VA	6.8 VA	5.7 VA	Internal
R412000230	4.4 VA	3.5 VA	6.9 VA	6.2 VA	Internal
R412000237	-	-	-	-	Internal
5725680220	-	-	-	-	External
5725685270	4.3 VA	3.3 VA	6.8 VA	5.7 VA	External
5725685280	4.4 VA	3.5 VA	6.9 VA	6.2 VA	External
5725685202	-	-	-	-	External
R412000219	-	-	-	-	Internal
R412000220	4.3 VA	3.3 VA	6.8 VA	5.7 VA	Internal
R412000221	4.4 VA	3.5 VA	6.9 VA	6.2 VA	Internal
R412000222	-	-	-	-	Internal
R412000153	-	-	-	-	External
R412000154	4.3 VA	3.3 VA	6.8 VA	5.7 VA	External
R412000157	4.4 VA	3.5 VA	6.9 VA	6.2 VA	External
R412000160	-	-	-	-	External

Part No.	Nominal flow Qn	Nominal flow 1 ▸ 2	Nominal flow 2 ▸ 3	Working pressure min./max.	Control pressure min./max.
5725650220	3800 l/min	3800 l/min	3800 l/min	3 ... 10 bar	3 ... 10 bar
5725650920	3800 l/min	3800 l/min	3800 l/min	3 ... 10 bar	3 ... 10 bar
5725655270	3800 l/min	3800 l/min	3800 l/min	3 ... 10 bar	3 ... 10 bar
5725655280	3800 l/min	3800 l/min	3800 l/min	3 ... 10 bar	3 ... 10 bar
5725655980	3800 l/min	3800 l/min	3800 l/min	3 ... 10 bar	3 ... 10 bar
5725655202	3800 l/min	3800 l/min	3800 l/min	3 ... 16 bar	3 ... 16 bar
R412008098	3800 l/min	3800 l/min	3800 l/min	3 ... 10 bar	3 ... 10 bar
R412000127	3800 l/min	3800 l/min	3800 l/min	-0.95 ... 16 bar	3 ... 10 bar
R412000148	3800 l/min	3800 l/min	3800 l/min	-0.95 ... 16 bar	3 ... 10 bar
R412000149	3800 l/min	3800 l/min	3800 l/min	-0.95 ... 16 bar	3 ... 10 bar
R412000151	3800 l/min	3800 l/min	3800 l/min	-0.95 ... 16 bar	3 ... 16 bar

Part No.	Nominal flow Qn	Nominal flow 1 ▸ 2	Nominal flow 2 ▸ 3	Working pressure min./max.	Control pressure min./max.
R412000224	-	3600 l/min	4100 l/min	3 ... 10 bar	3 ... 10 bar
R412000225	-	3600 l/min	4100 l/min	3 ... 10 bar	3 ... 10 bar
R412000230	-	3600 l/min	4100 l/min	3 ... 10 bar	3 ... 10 bar
R412000237	-	3600 l/min	4100 l/min	3 ... 16 bar	3 ... 16 bar
5725680220	-	3600 l/min	4100 l/min	-0.95 ... 16 bar	3 ... 10 bar
5725685270	-	3600 l/min	4100 l/min	-0.95 ... 16 bar	3 ... 10 bar
5725685280	-	3600 l/min	4100 l/min	-0.95 ... 16 bar	3 ... 10 bar
5725685202	-	3600 l/min	4100 l/min	-0.95 ... 16 bar	3 ... 16 bar
R412000219	-	4100 l/min	3800 l/min	3 ... 10 bar	3 ... 10 bar
R412000220	-	4100 l/min	3800 l/min	3 ... 10 bar	3 ... 10 bar
R412000221	-	4100 l/min	3800 l/min	3 ... 10 bar	3 ... 10 bar
R412000222	-	4100 l/min	3800 l/min	3 ... 16 bar	3 ... 16 bar
R412000153	-	4100 l/min	3800 l/min	-0.95 ... 16 bar	3 ... 10 bar
R412000154	-	4100 l/min	3800 l/min	-0.95 ... 16 bar	3 ... 10 bar
R412000157	-	4100 l/min	3800 l/min	-0.95 ... 16 bar	3 ... 10 bar
R412000160	-	4100 l/min	3800 l/min	-0.95 ... 16 bar	3 ... 16 bar

Part No.	Ambient temperature min./max.	Medium temperature min./max.	Typ. switch-on time
5725650220	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725650920	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725655270	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725655280	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725655980	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725655202	-15 ... 70 °C	-15 ... 70 °C	-
R412008098	-15 ... 50 °C	-15 ... 50 °C	-
R412000127	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000148	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000149	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000151	-15 ... 70 °C	-15 ... 70 °C	-
R412000224	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000225	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000230	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000237	-15 ... 70 °C	-15 ... 70 °C	-
5725680220	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725685270	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725685280	-15 ... 50 °C	-15 ... 50 °C	37 ms
5725685202	-15 ... 70 °C	-15 ... 70 °C	-
R412000219	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000220	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000221	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000222	-15 ... 70 °C	-15 ... 70 °C	-
R412000153	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000154	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000157	-15 ... 50 °C	-15 ... 50 °C	37 ms
R412000160	-15 ... 70 °C	-15 ... 70 °C	-

Part No.	Typ. switch-off time	Compatibility index	Protection class with connection	basic valve with electrical connector
5725650220	97 ms	13 14	IP65	-
5725650920	97 ms	13 14	IP65	-
5725655270	97 ms	13 14	IP65	-
5725655280	97 ms	13 14	IP65	-
5725655980	97 ms	13 14	IP65	-
5725655202	-	-	-	Basic valve without pilot valve
R412008098	-	13 14	-	Basic valve without coil
R412000127	97 ms	13 14	IP65	-
R412000148	97 ms	13 14	IP65	-
R412000149	97 ms	13 14	IP65	-
R412000151	-	-	-	Basic valve without pilot valve
R412000224	97 ms	13 14	IP65	-
R412000225	97 ms	13 14	IP65	-
R412000230	97 ms	13 14	IP65	-
R412000237	-	-	-	Basic valve without pilot valve
5725680220	97 ms	13 14	IP65	-
5725685270	97 ms	13 14	IP65	-
5725685280	97 ms	13 14	IP65	-
5725685202	-	-	-	Basic valve without pilot valve
R412000219	97 ms	13 14	IP65	-
R412000220	97 ms	13 14	IP65	-
R412000221	97 ms	13 14	IP65	-
R412000222	-	-	-	Basic valve without pilot valve
R412000153	97 ms	13 14	IP65	-
R412000154	97 ms	13 14	IP65	-
R412000157	97 ms	13 14	IP65	-
R412000160	-	-	-	Basic valve without pilot valve

Part No.	Reverse polarity protection	ATEX	Weight	
5725650220	Protected against polarity reversal	-	1.3 kg	-
5725650920	Protected against polarity reversal	-	1.3 kg	1)
5725655270	Protected against polarity reversal	-	1.3 kg	-
5725655280	Protected against polarity reversal	-	1.3 kg	-
5725655980	Protected against polarity reversal	-	1.3 kg	1)
5725655202	-	ATEX optional	1 kg	-
R412008098	-	ATEX optional	1 kg	1)
R412000127	Protected against polarity reversal	-	1.3 kg	-
R412000148	Protected against polarity reversal	-	1.3 kg	-
R412000149	Protected against polarity reversal	-	1.3 kg	-
R412000151	-	ATEX optional	1 kg	-
R412000224	Protected against polarity reversal	-	1.3 kg	-
R412000225	Protected against polarity reversal	-	1.3 kg	-
R412000230	Protected against polarity reversal	-	1.3 kg	-
R412000237	-	ATEX optional	1 kg	-
5725680220	Protected against polarity reversal	-	1.3 kg	-
5725685270	Protected against polarity reversal	-	1.3 kg	-
5725685280	Protected against polarity reversal	-	1.3 kg	-

Part No.	Reverse polarity protection	ATEX	Weight	
5725685202	-	ATEX optional	1 kg	-
R412000219	Protected against polarity reversal	-	1.3 kg	-
R412000220	Protected against polarity reversal	-	1.3 kg	-
R412000221	Protected against polarity reversal	-	1.3 kg	-
R412000222	-	ATEX optional	1 kg	-
R412000153	Protected against polarity reversal	-	1.3 kg	-
R412000154	Protected against polarity reversal	-	1.3 kg	-
R412000157	Protected against polarity reversal	-	1.3 kg	-
R412000160	-	ATEX optional	1 kg	-

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

1) Exhaust cap

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).

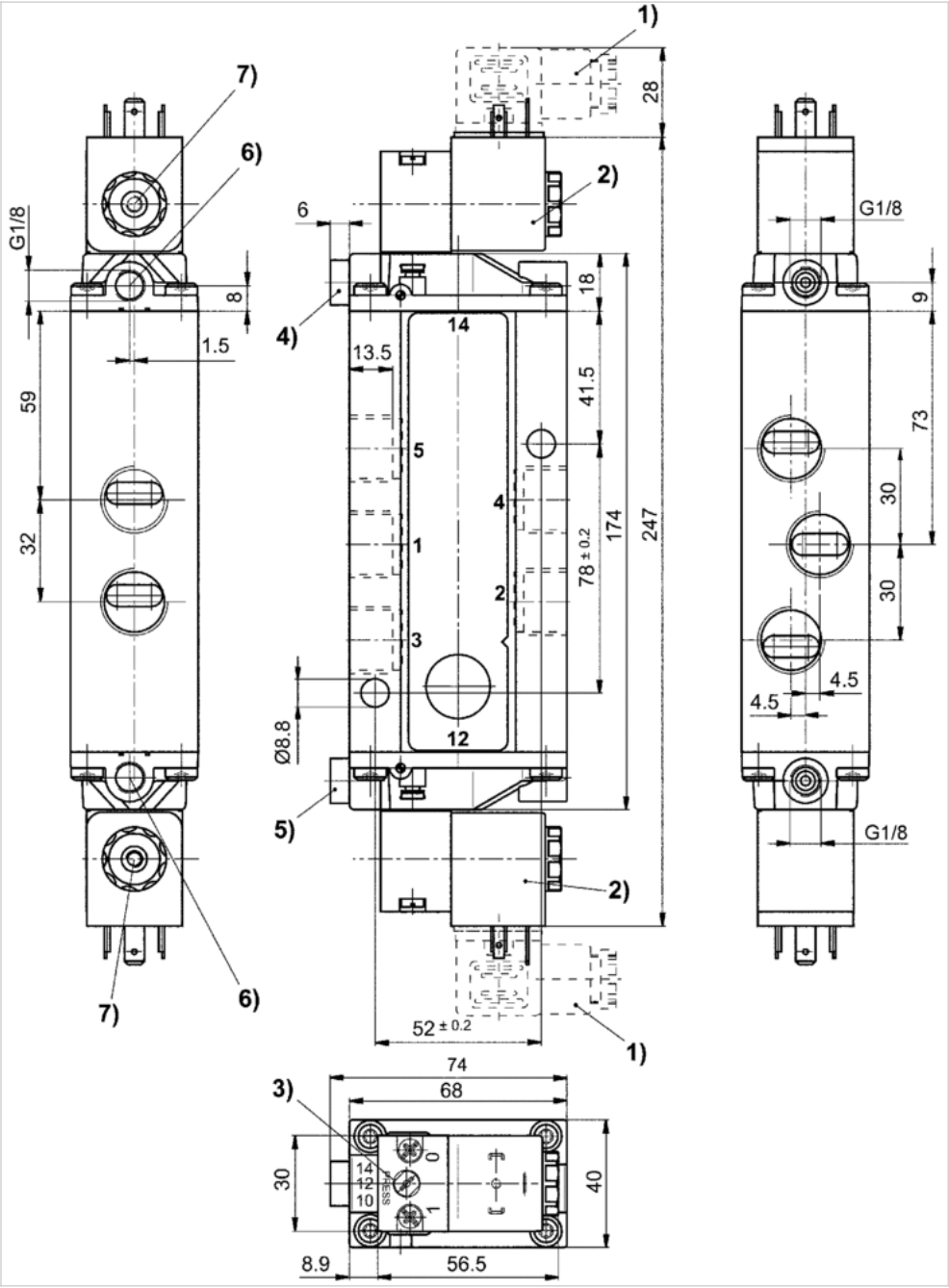
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.
*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Dimensions

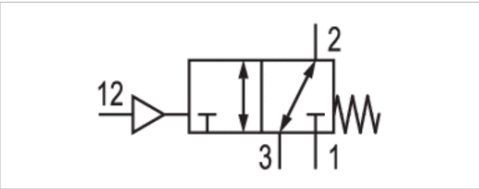


1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override4) Port X, side 14 5) Port X, side 12 6) Port without function 7) Pilot valve exhaust, M5

3/2-directional valve, Series CD12

- Qn = 4000 l/min
- Compressed air connection output G 1/2
- Single air pilot
- Pipe connection
- suitable for ATEX

Version	Spool valve, positive overlapping
Activation	pneumatically
Sealing principle	Soft sealing
Flow rate value Qn	4000 l/min
Working pressure min./max.	-0.95 ... 16 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-25 ... 70 °C
Medium temperature min./max.	-25 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Weight	0.71 kg



Technical data

Part No.		Compressed air connection	Compressed air connection
		Input	Output
5711100300	NC/NO	G 1/2	G 1/2

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot control exhaust
5711100300	G 1/2	G 1/8

Nominal flow Qn at 6 bar and Δp = 1 bar

Technical information

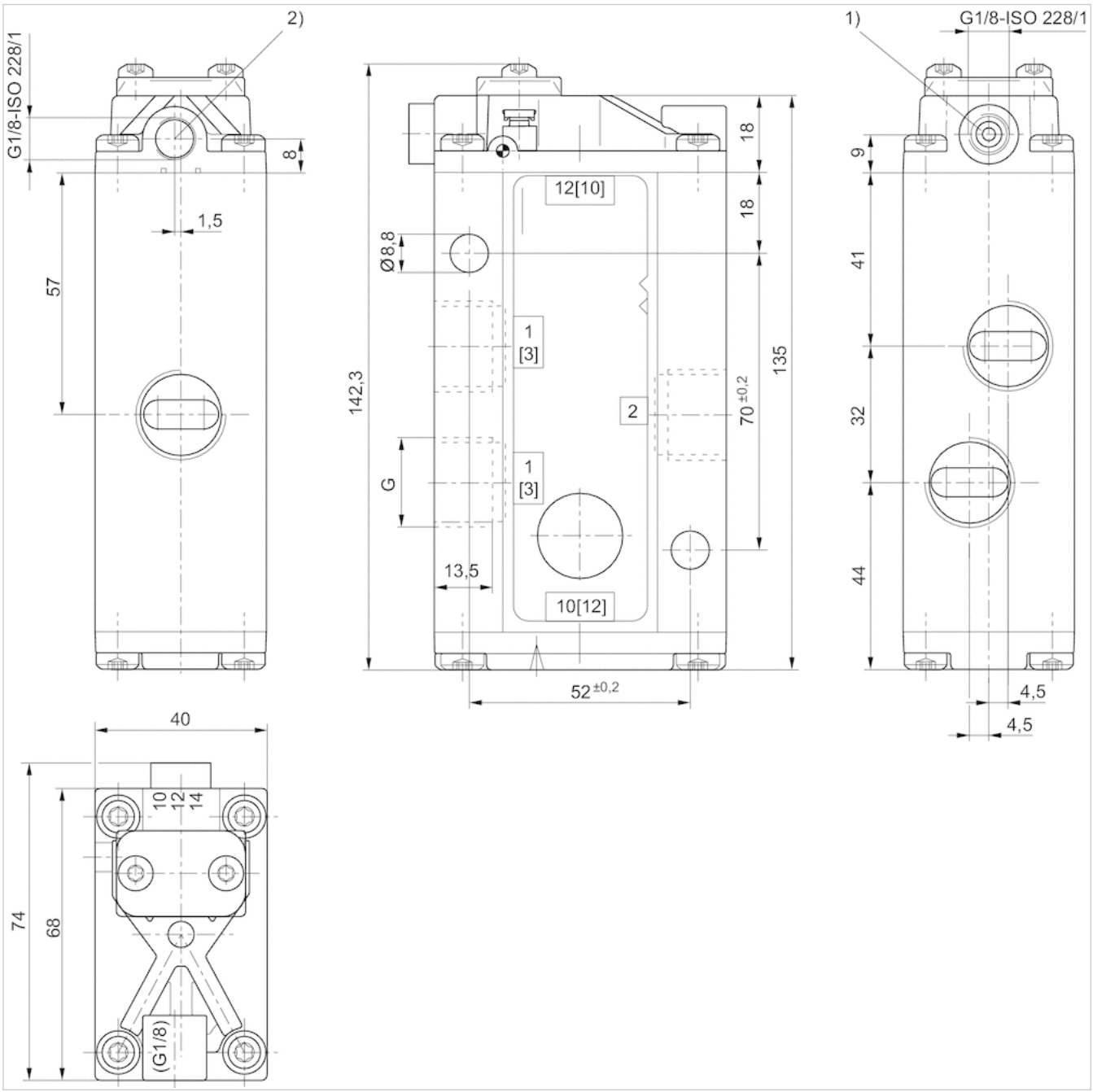
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

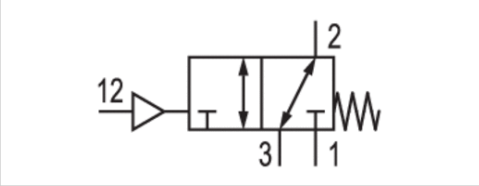
Dimensions



1) Port 12/10
2) vent port of piston

3/2-directional valve, Series CD12

- Qn = 4000 l/min
- Compressed air connection output M22x1,5
- Single air pilot
- Pipe connection
- suitable for ATEX



Version	Spool valve, positive overlapping
Activation	pneumatically
Sealing principle	Soft sealing
Flow rate value Qn	4000 l/min
Working pressure min./max.	-0.95 ... 16 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-25 ... 70 °C
Medium temperature min./max.	-25 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Weight	0.71 kg

Technical data

Part No.		Compressed air connection	Compressed air connection
		Input	Output
5711100200	NC/NO	M22x1,5	M22x1,5

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot control exhaust
5711100200	M22x1,5	G 1/8

Nominal flow Qn at 6 bar and Δp = 1 bar

Technical information

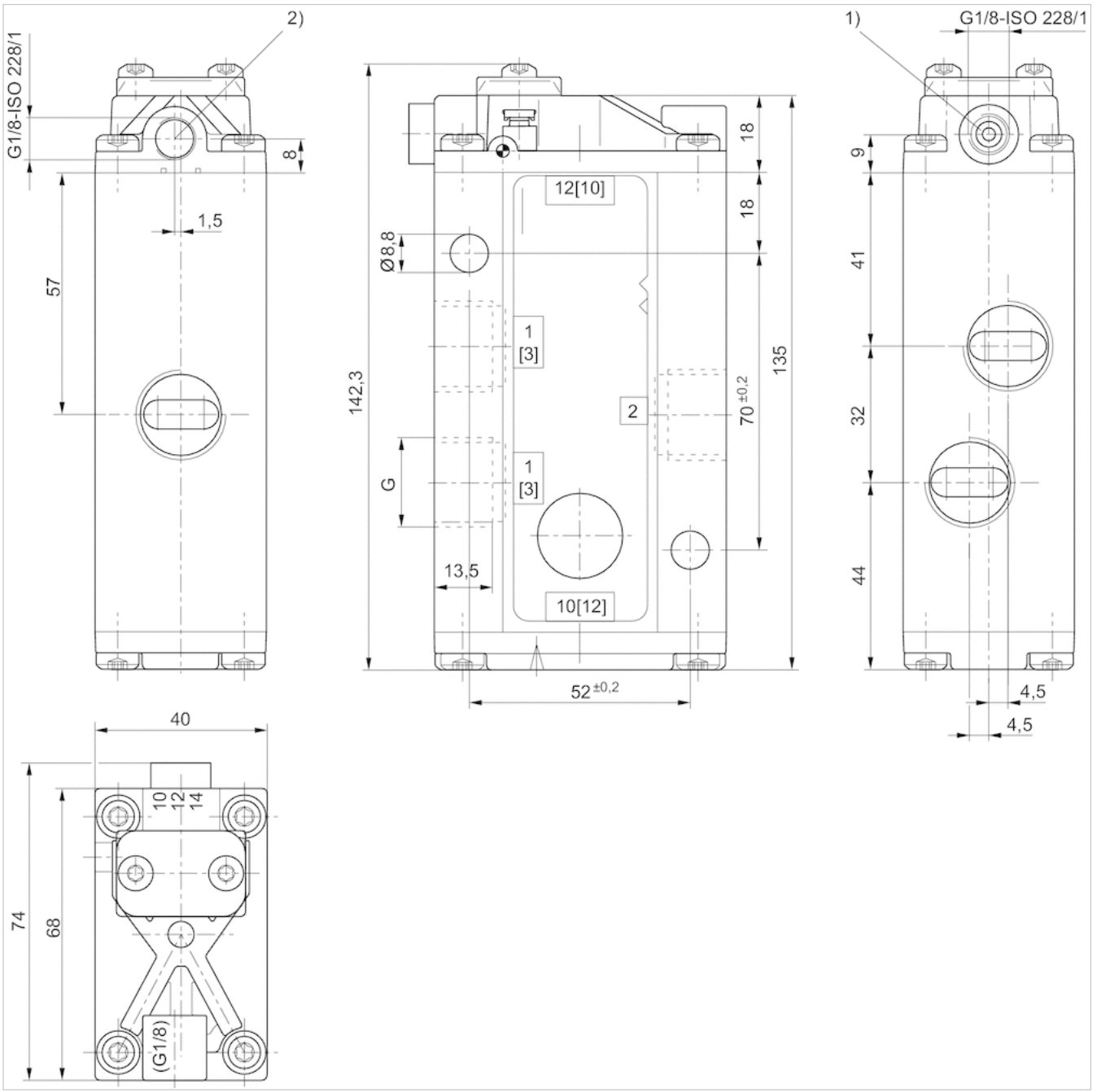
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Dimensions



1) Port 12/10
2) vent port of piston

5/2-directional valve, Series CD12

- Qn = 4100 l/min
- Qn 1▸2 = 4100 l/min
- Compressed air connection output G 1/2
- Pipe connection
- suitable for ATEX

Version	Spool valve, positive overlapping
Activation	pneumatically
Sealing principle	Soft sealing
Flow rate value Qn	4100 l/min
Working pressure min./max.	-0.95 ... 16 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Weight	0.86 kg

Technical data

Part No.		Compressed air connection	Compressed air connection
		Input	Output
5711000100		G 1/2	G 1/2
5711000300		G 1/2	G 1/2
5711001100		G 1/2	G 1/2

Part No.	Compressed air connection	Compressed air connection	Flow
	Exhaust	Pilot control exhaust	Qn 1▸2
5711000100	G 1/2	G 1/8	-
5711000300	G 1/2	G 1/8	-
5711001100	G 1/2	G 1/8	4100 l/min

Part No.	Ambient temperature min./max.	Medium temperature min./max.	Fig.
5711000100	-25 ... 70 °C	-25 ... 70 °C	Fig. 2
5711000300	-15 ... 70 °C	-15 ... 70 °C	Fig. 1
5711001100	-25 ... 70 °C	-25 ... 70 °C	Fig. 2

Nominal flow Qn at 6 bar and Δp = 1 bar

Technical information

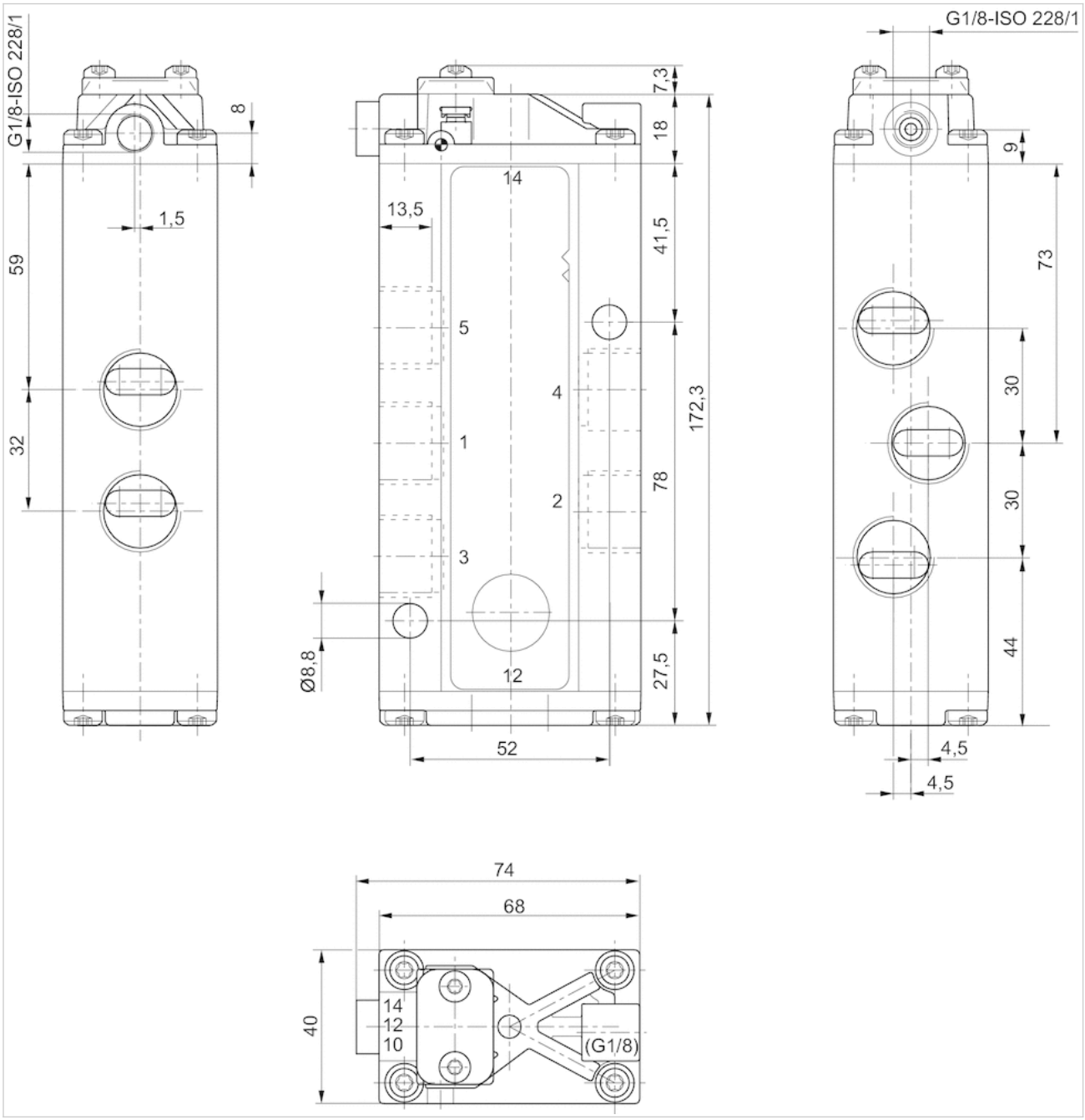
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

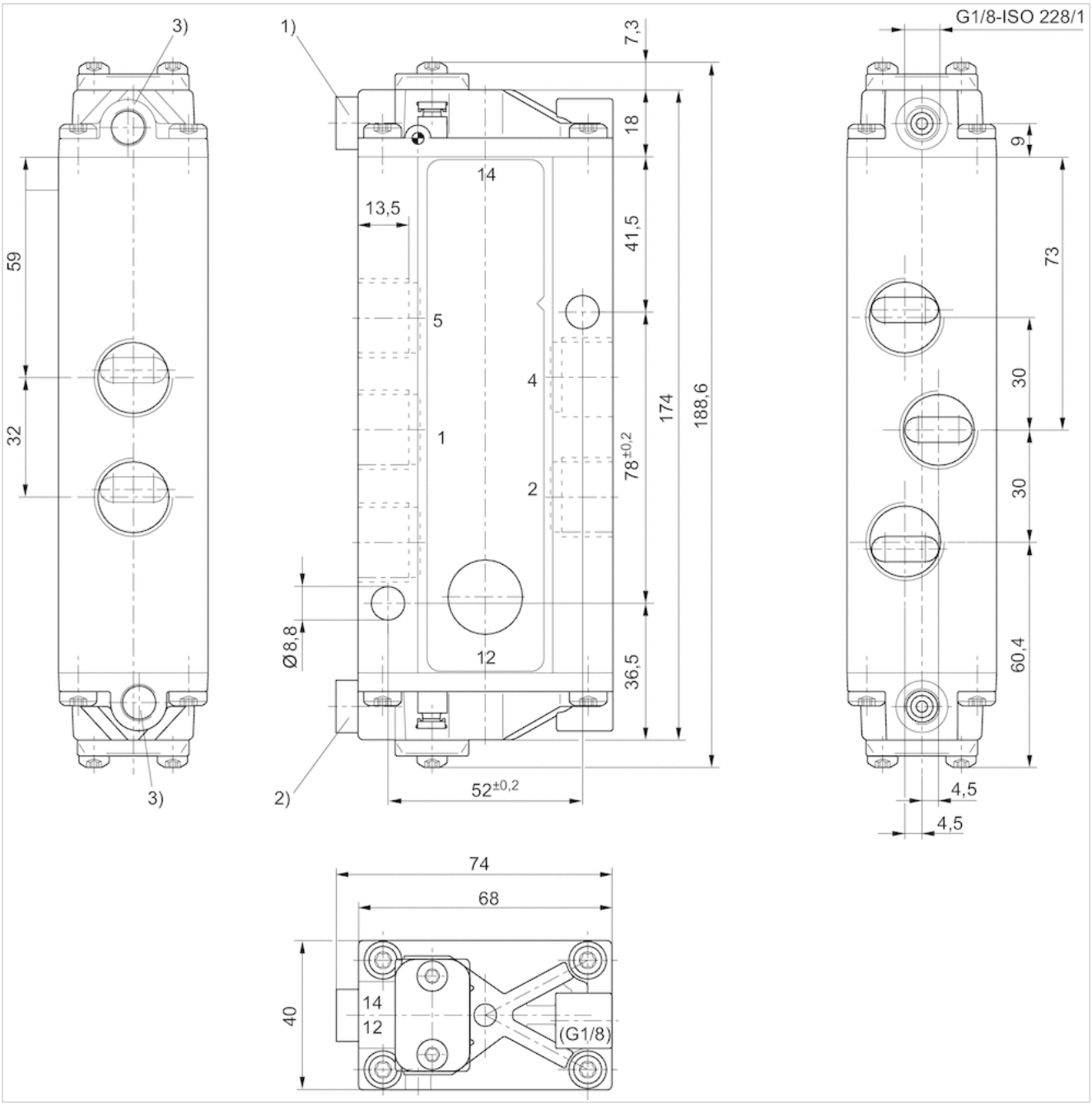
Dimensions

Fig. 1, Single air pilot



1) Port 14
2) Vent port of piston

Fig. 2, double air pilot



1) Port 14
2) Port 12
3) Port without function

5/2-directional valve, Series CD12

- Qn = 4100 l/min
- Compressed air connection output M22x1,5
- Pipe connection
- suitable for ATEX

Version	Spool valve, positive overlapping
Activation	pneumatically
Sealing principle	Soft sealing
Flow rate value Qn	4100 l/min
Working pressure min./max.	-0.95 ... 16 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Weight	0.86 kg

Technical data

Part No.		Compressed air connection	Compressed air connection
		Input	Output
5711000000		M22x1,5	M22x1,5
R412013343		M22x1,5	M22x1,5
R412013344		M22x1,5	M22x1,5

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot control exhaust
5711000000	M22x1,5	G 1/8
R412013343	M22x1,5	G 1/8
R412013344	M22x1,5	G 1/8

Part No.	Ambient temperature min./max.	Medium temperature min./max.	Fig.
5711000000	-25 ... 70 °C	-25 ... 70 °C	Fig. 2
R412013343	-15 ... 70 °C	-15 ... 70 °C	Fig. 1
R412013344	-25 ... 70 °C	-25 ... 70 °C	Fig. 2

Nominal flow Qn at 6 bar and Δp = 1 bar

Technical information

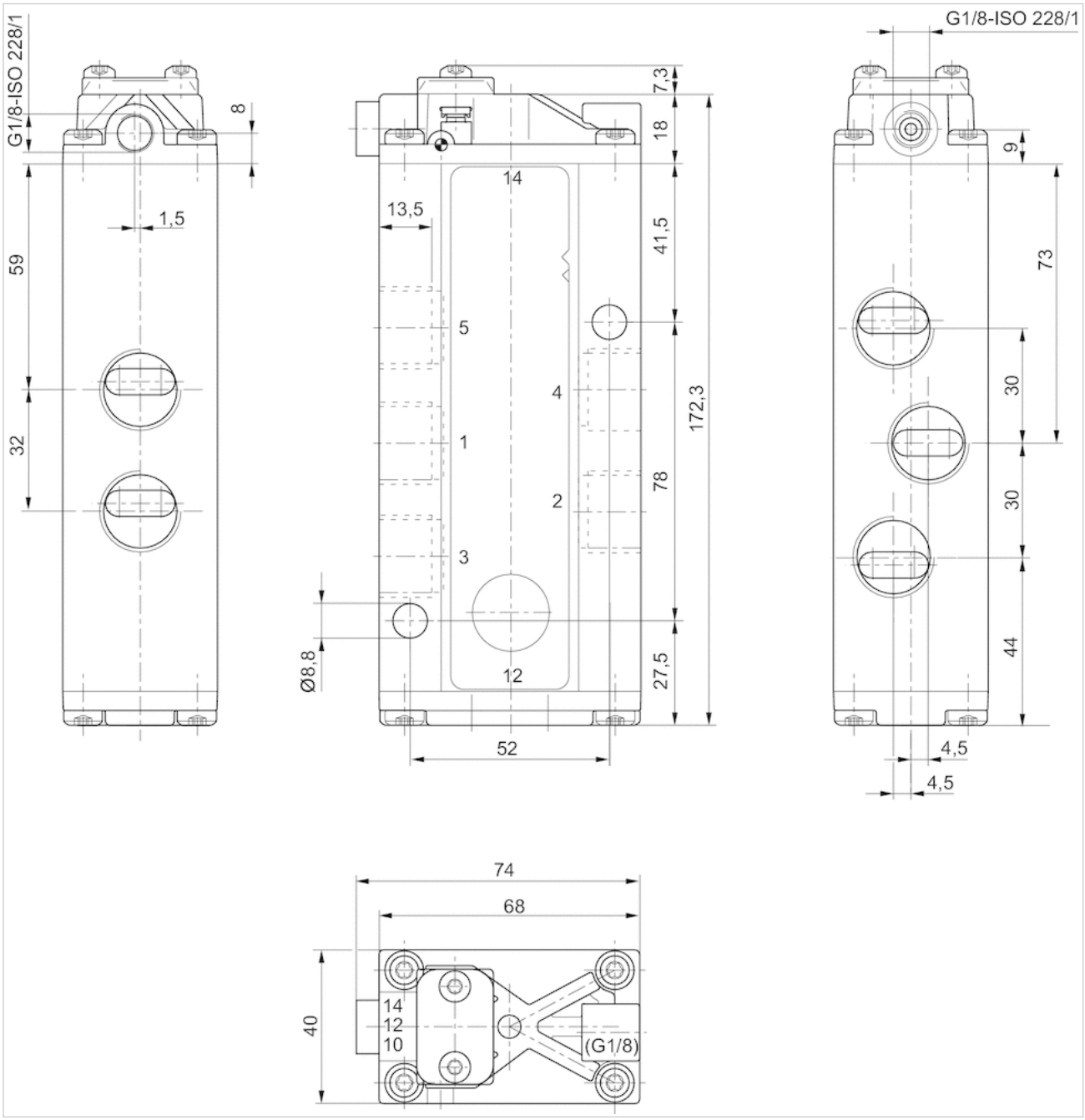
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

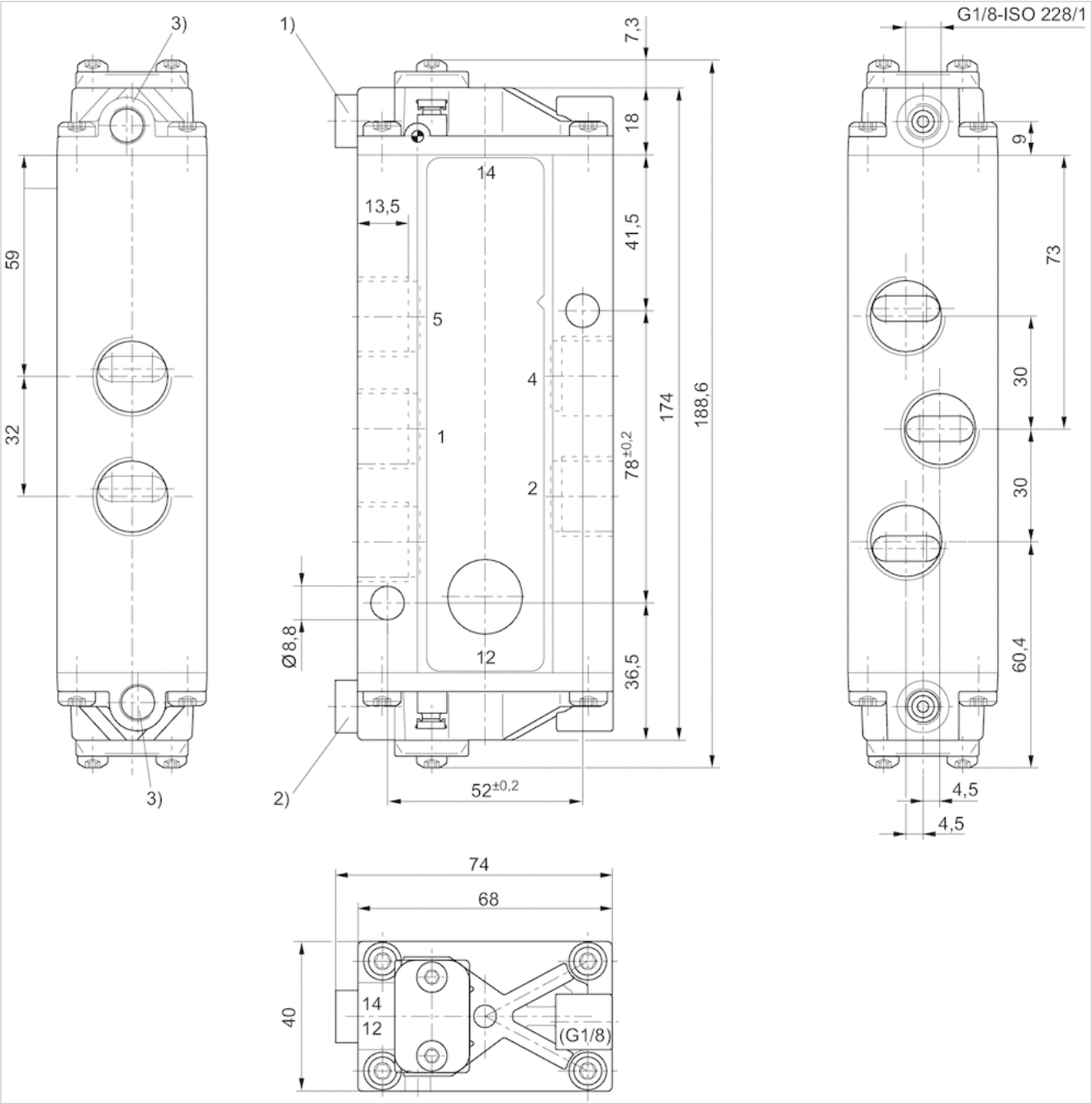
Dimensions

Fig. 1, Single air pilot



1) Port 14
2) Vent port of piston

Fig. 2, double air pilot



1) Port 14
2) Port 12
3) Port without function

5/3-directional valve, Series CD12

- Qn 1▸2 = 3600-4100 l/min
- Qn 2▸3 = 3800-4100 l/min
- Compressed air connection output G 1/2
- Pipe connection
- suitable for ATEX

Version	Spool valve, positive overlapping
Activation	pneumatically
Sealing principle	Soft sealing
Compressed air connection	according to ISO 228-1
Working pressure min./max.	-0.95 ... 16 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-25 ... 70 °C
Medium temperature min./max.	-25 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 1 mg/m³
Weight	0.95 kg

Technical data

Part No.			Compressed air connection	Compressed air connection
			Input	Output
5711200050		closed center	G 1/2	G 1/2
5711200060		-	G 1/2	G 1/2
R414002380		-	G 1/2	G 1/2

Part No.	Compressed air connection	Compressed air connection	Flow	Flow
	Exhaust	Pilot control exhaust	Qn 1▸2	Qn 2▸3
5711200050	G 1/2	G 1/8	3800 l/min	3800 l/min
5711200060	G 1/2	G 1/8	3600 l/min	4100 l/min
R414002380	G 1/2	G 1/8	4100 l/min	3800 l/min

Nominal flow Qn at 6 bar and Δp = 1 bar

Technical information

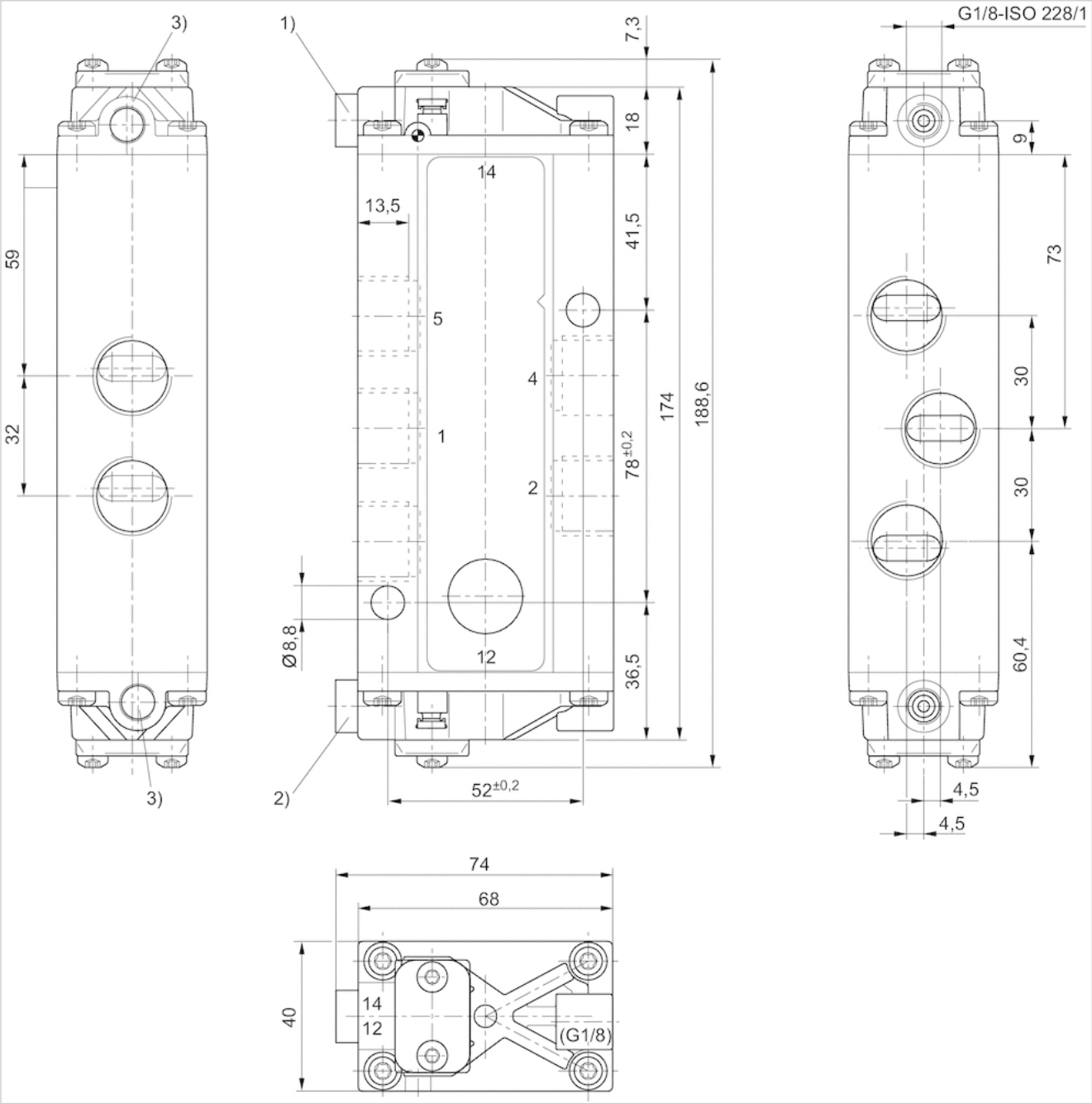
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Fig. 2, double air pilot



1) Port 14
2) Port 12
3) Port without function

Valve plug connector, series CON-VP

- Socket, 2+E, angled, 90°
- EN 175301-803
- unshielded
- with LED Yellow Red

Connection type	Screws
Ambient temperature min./max.	-40 ... 90 °C
Operational voltage	See table below
Protection class	IP65
Mounting screw tightening torque	0.4 Nm
Weight	See table below

Technical data

Part No.		Operational voltage	Protective circuit	Contact assignment	LED status display
1834484101		24 V AC/DC	Z-diode	2+E	Yellow
1834484102		110 V AC	Varistor	2+E	Red
1834484103		230 V AC	Varistor	2+E	Red

Part No.	suitable cable-Ø min./max	Seal	Weight	
1834484101	6 / 8 mm	Silicone caoutchouc	0.03 kg	1)
1834484102	6 / 8 mm	caoutchouc/butadiene caoutchouc	0.03 kg	2)
1834484103	6 / 8 mm	Silicone caoutchouc	0.025 kg	2)

1) Flat gasket

2) Profile seal

Technical information

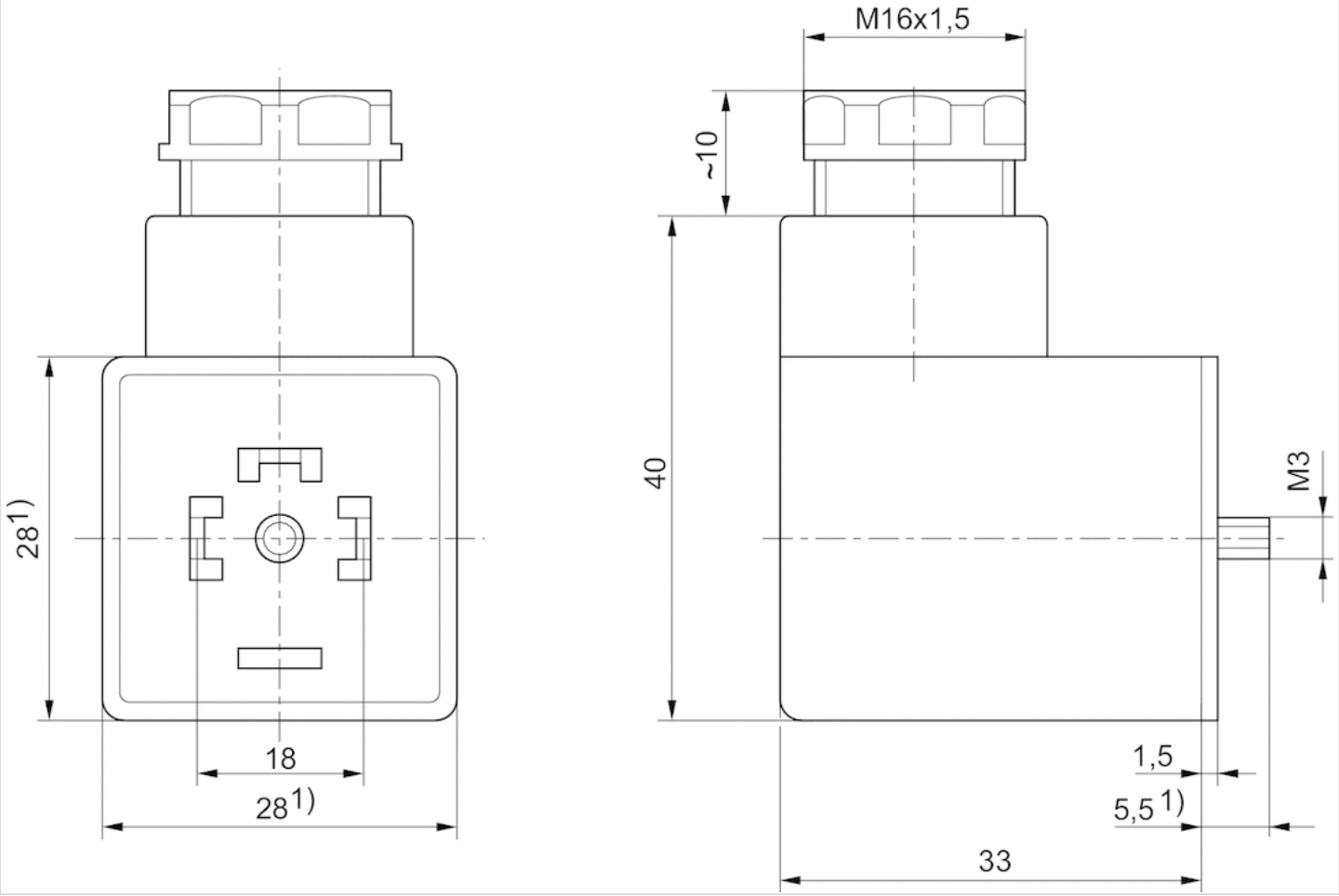
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	Silicone caoutchouc caoutchouc/butadiene caoutchouc

Dimensions

Dimensions



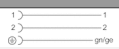
1) Max.

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

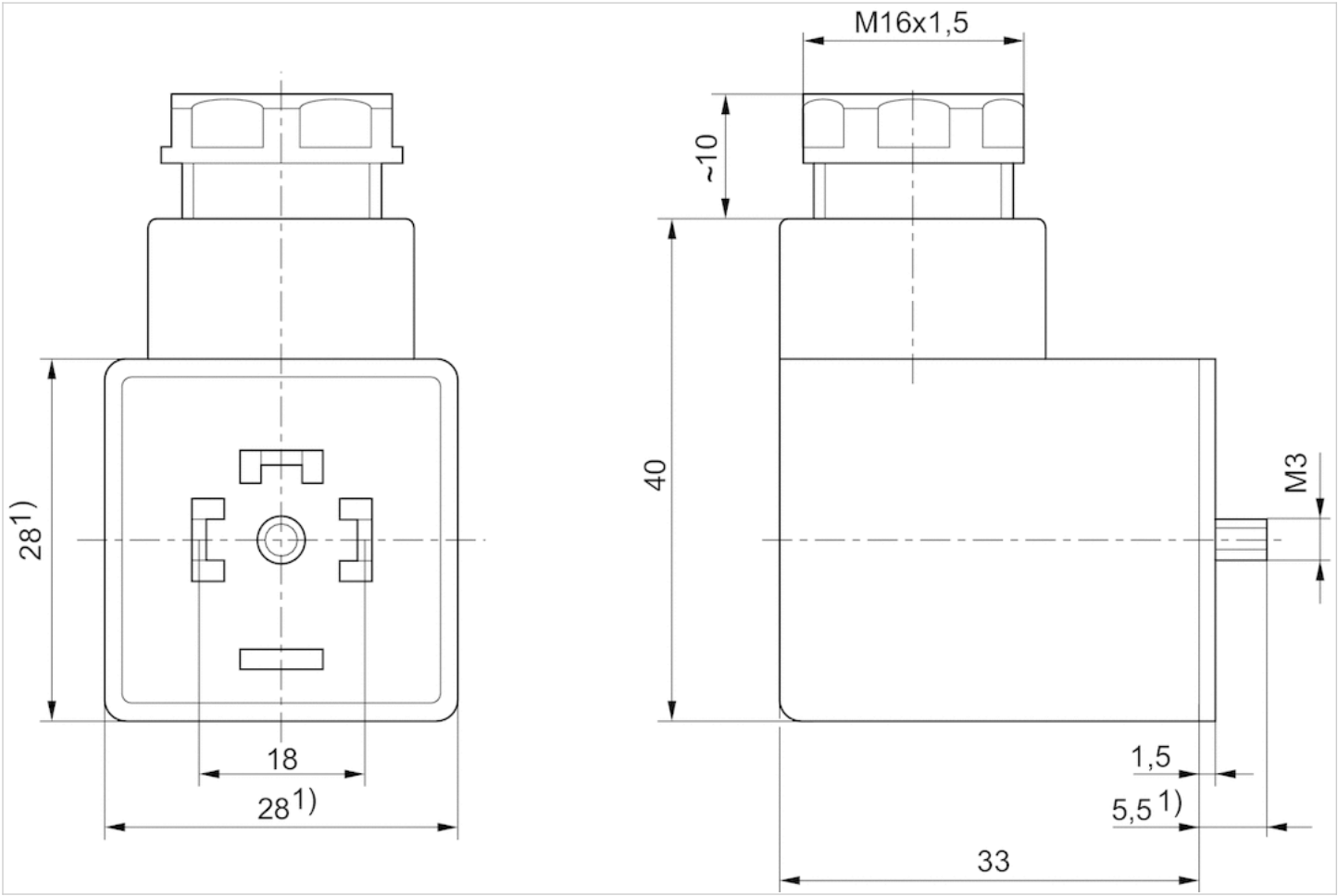
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc

Dimensions

Dimensions



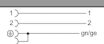
1) Max.

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 mm²
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

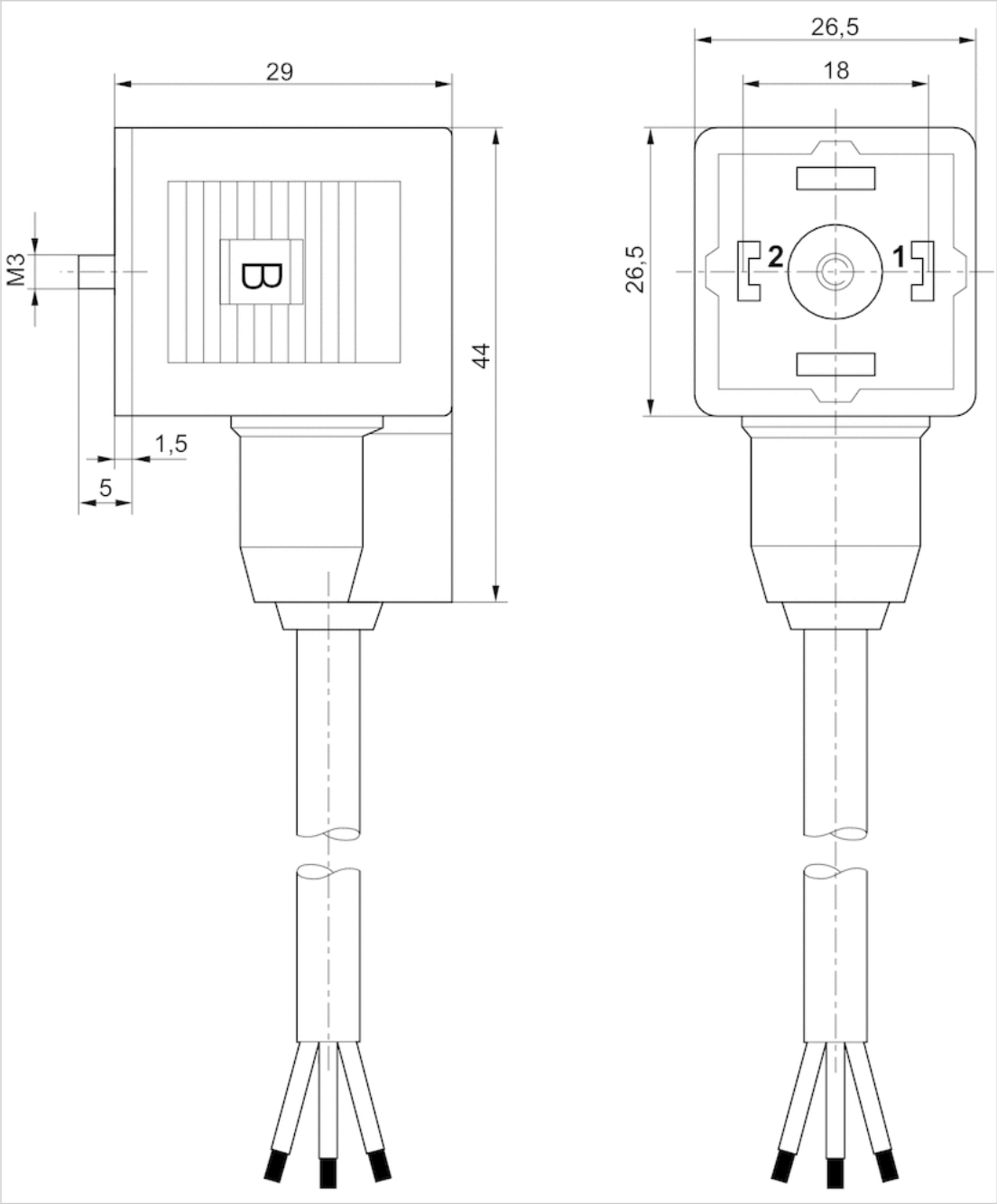
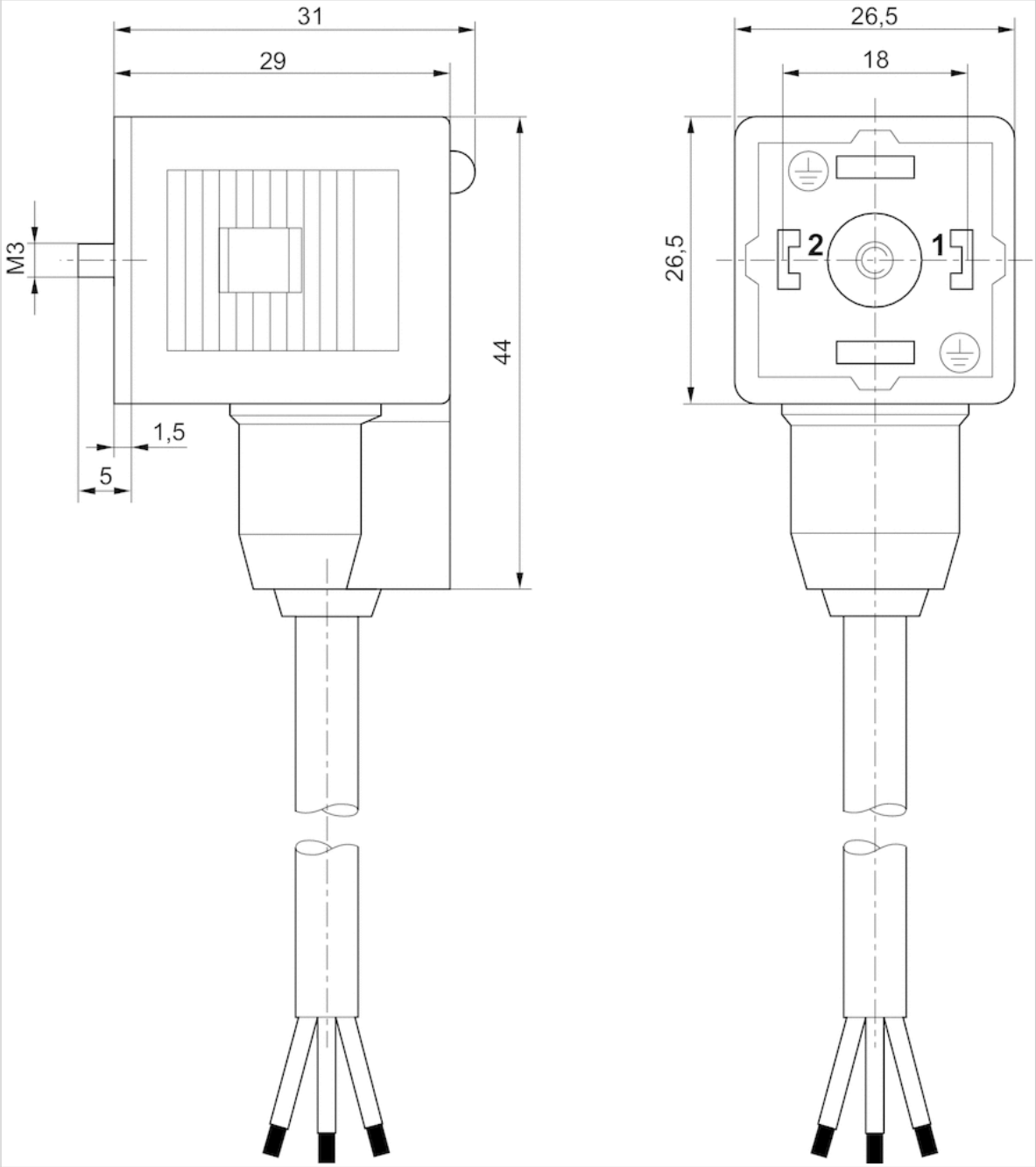


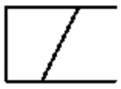
Fig. 2



Coil, Series CO1

- form A
- Coil width 30 mm
- Power consumption DC 2.7 W
- Holding power AC 4.8-5.6 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 %
Compatibility index	14
Weight	0.096 kg



Technical data

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5420897022	24 V	-	-
5428117022	-	24 V	24 V
5428117072	-	110 V	110 V
5428117082	-	230 V	230 V

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5420897022	-10% / +10%	-	-	2.7 W
5428117022	-	-20% / +10%	-10% / +20%	-
5428117072	-	-20% / +10%	-10% / +20%	-
5428117082	-	-20% / +10%	-10% / +20%	-

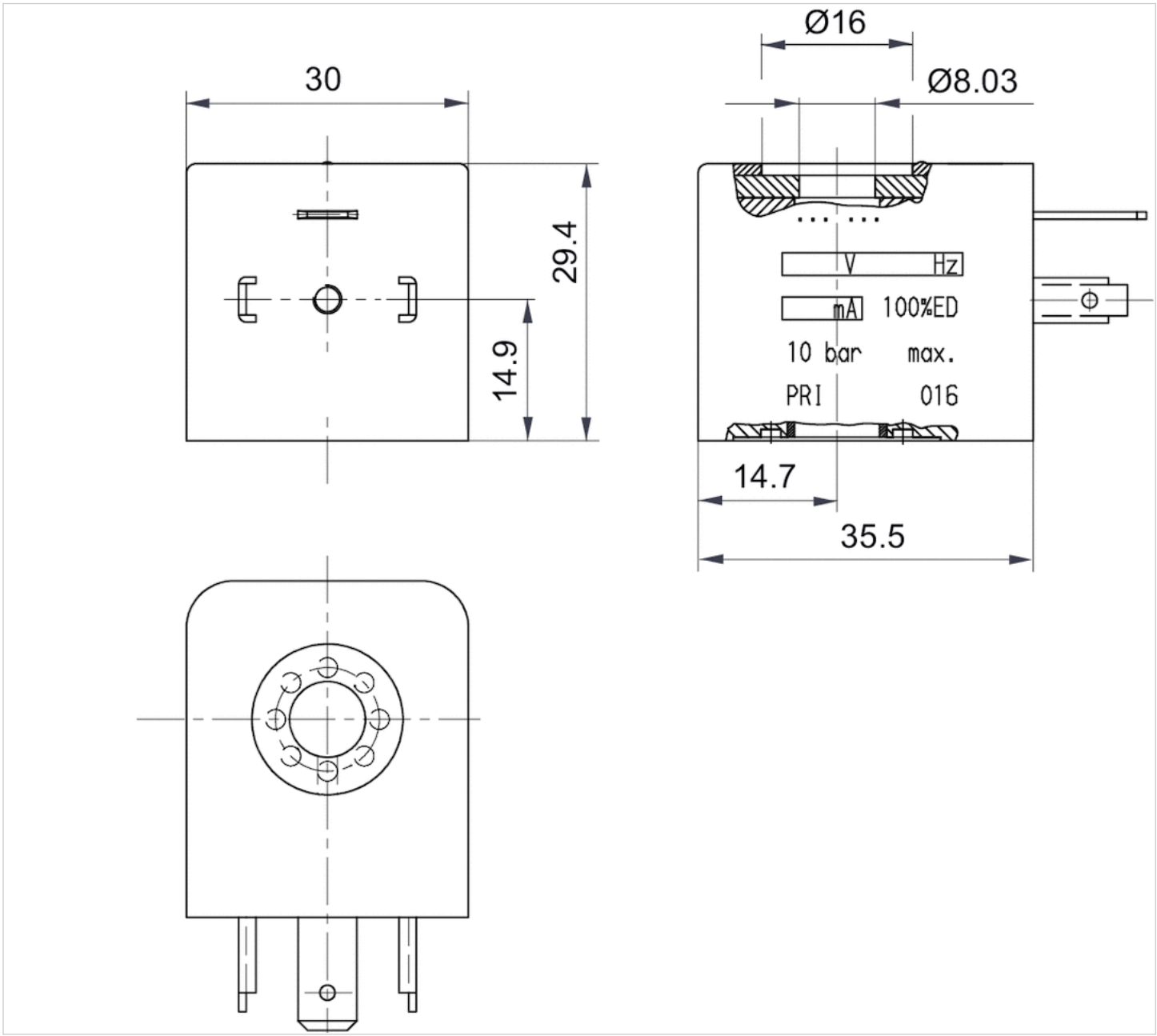
Part No.	Holding power	Holding power
	AC 50 Hz	AC 60 Hz
5420897022	-	-
5428117022	5.2 VA	3.9 VA
5428117072	4.8 VA	3.6 VA
5428117082	5.6 VA	4.2 VA

Technical information

Material	
Housing	Thermoplastic elastomer

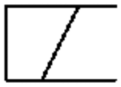
Dimensions

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	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	-	-

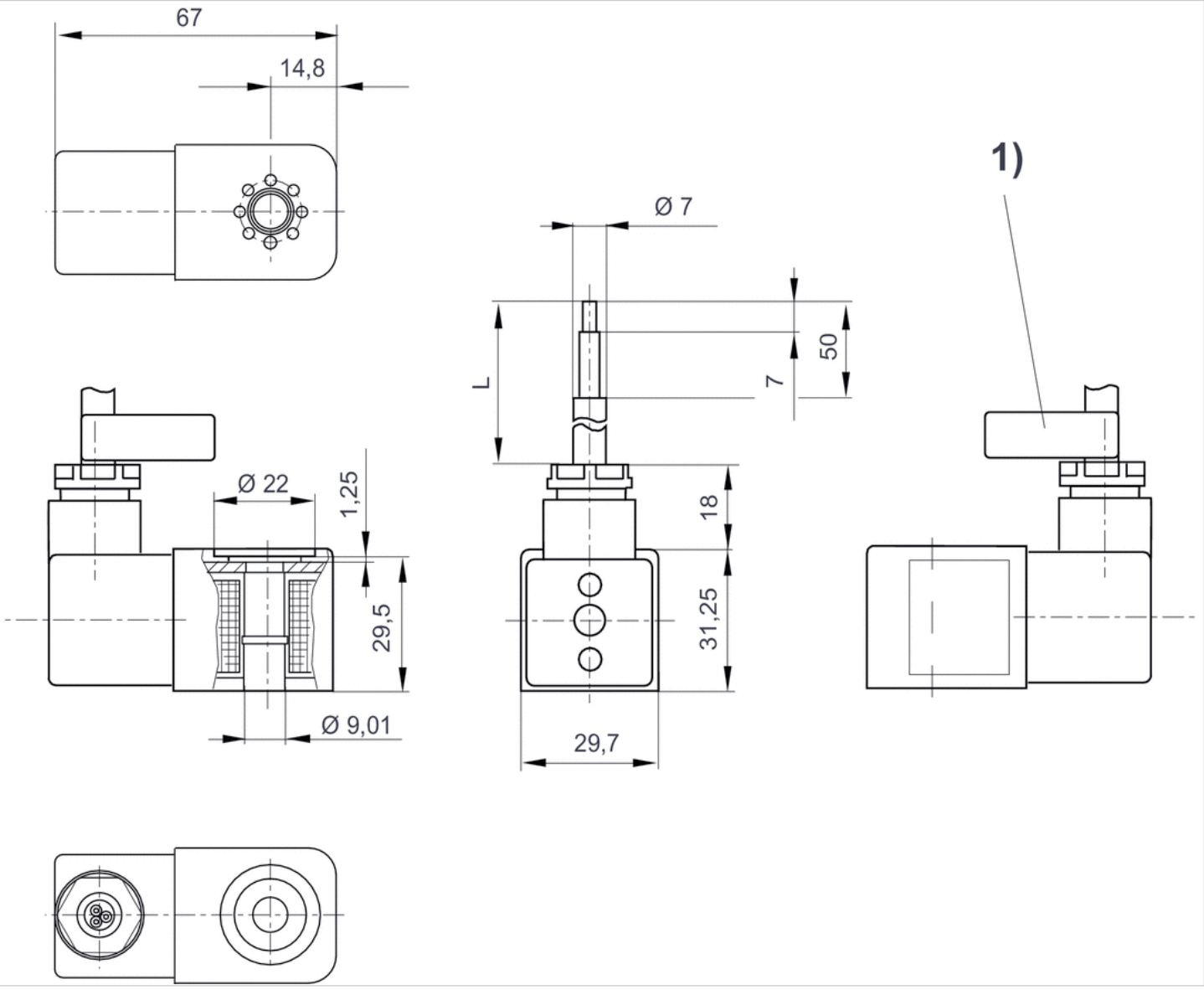
Part No.	Voltage tolerance	Voltage tolerance	Power consumption	Holding power
	DC	AC 50 Hz	DC	AC 50 Hz
1827414297	-	-10% / +10%	-	3 VA
1827414298	-	-10% / +10%	-	3 VA
1827414299	-	-10% / +10%	-	2.9 VA
1827414301	-	-10% / +10%	-	2.9 VA
1827414303	-10% / +10%	-	3.25 W	-
1827414304	-10% / +10%	-	3.25 W	-

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

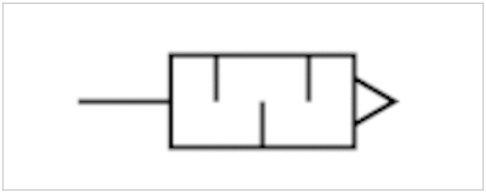
Dimensions



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

Silencers, series SI1

- G 1/2
- Sintered bronze



Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Sound pressure level	90 dB
Weight	0.08 kg
Comment	Flow characteristic curves can be found under “Diagrams”.

Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827000003	G 1/2	7223 l/min	2 piece

Weight per piece

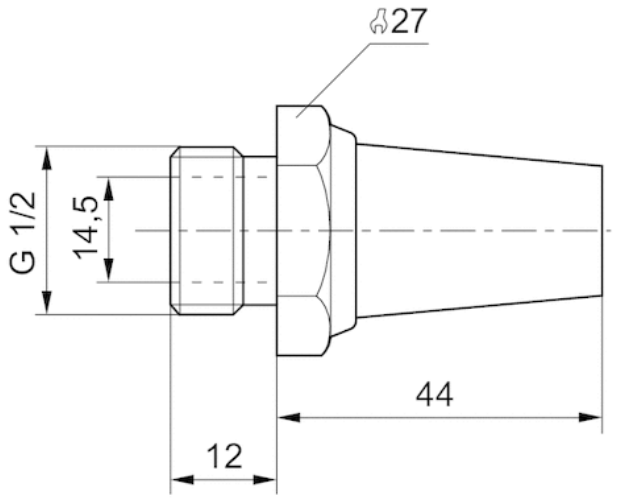
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Sintered bronze
Thread	Brass

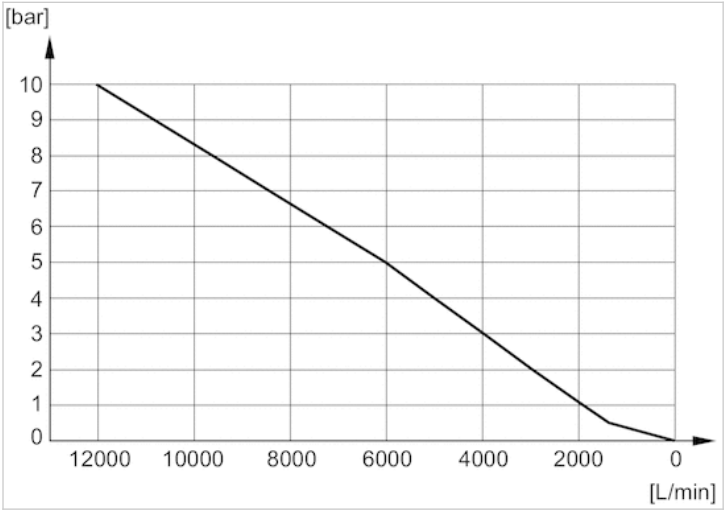
Dimensions

Dimensions in mm



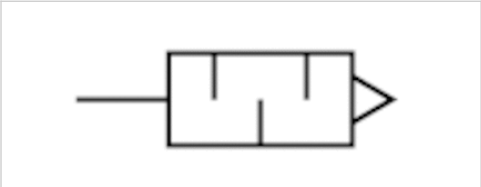
Diagrams

Flow diagram, 1827000003



Silencers, series SI1

- G 1/2
- Polyethylene



Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Sound pressure level	88 dB
Weight	0.013 kg

Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827000022	G 1/2	7142 l/min	1 piece

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

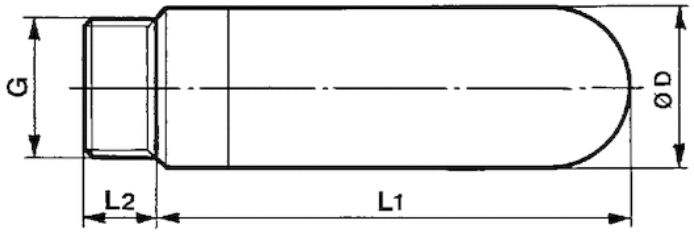
Flow characteristic curves can be found under “Diagrams”.

Technical information

Material	
Silencer	Polyethylene
Thread	Polyethylene

Dimensions

Dimensions

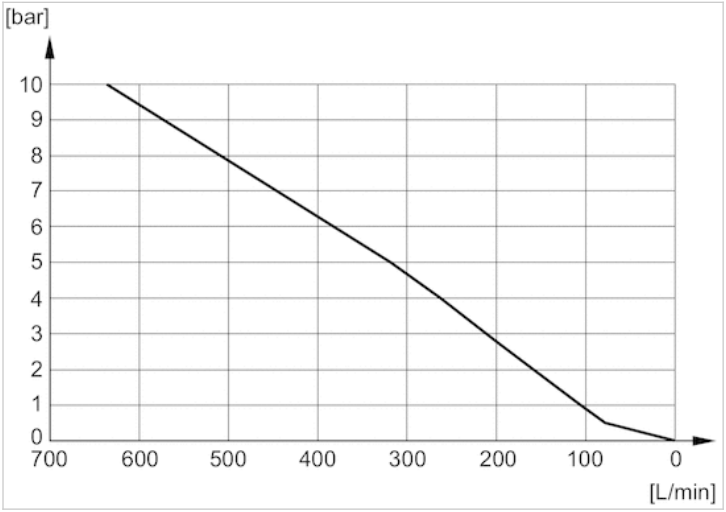


Dimensions

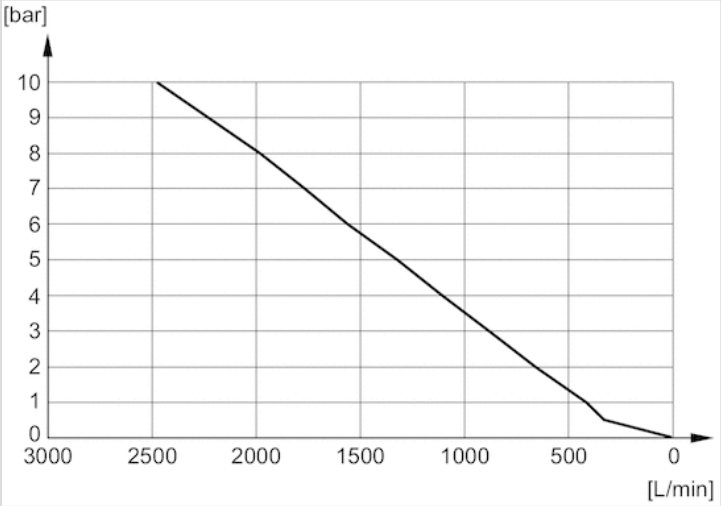
Part No.	Port G	Ø D	L1	L2
1827000022	G 1/2	23.3	66.5	11

Diagrams

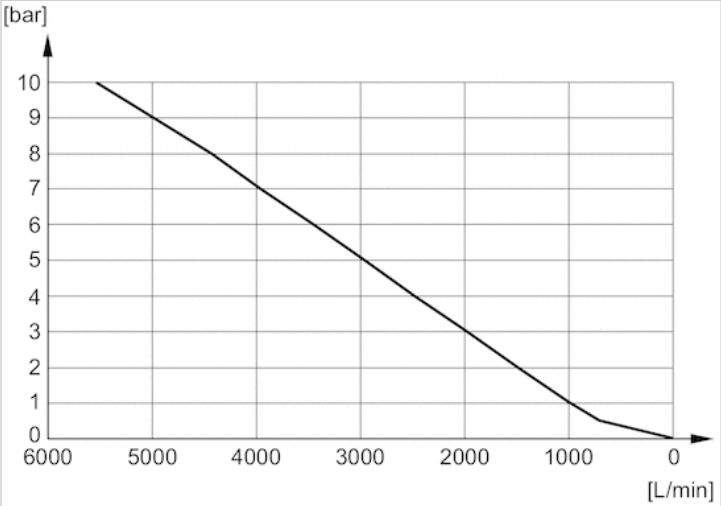
Flow diagram, 1827000018



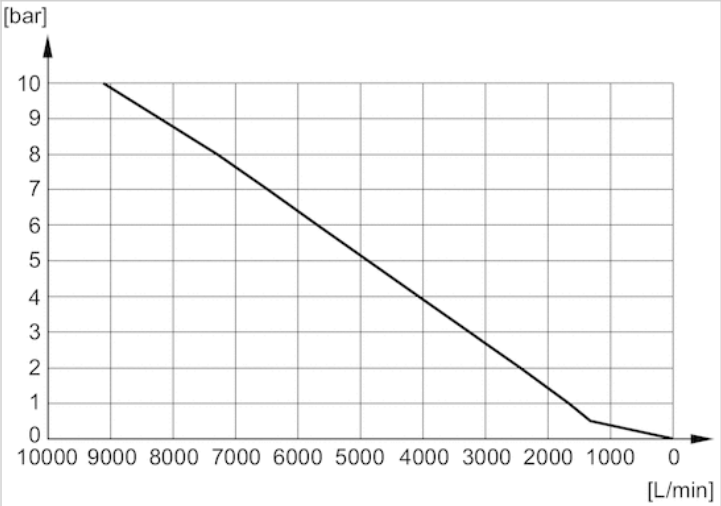
Flow diagram, 1827000019



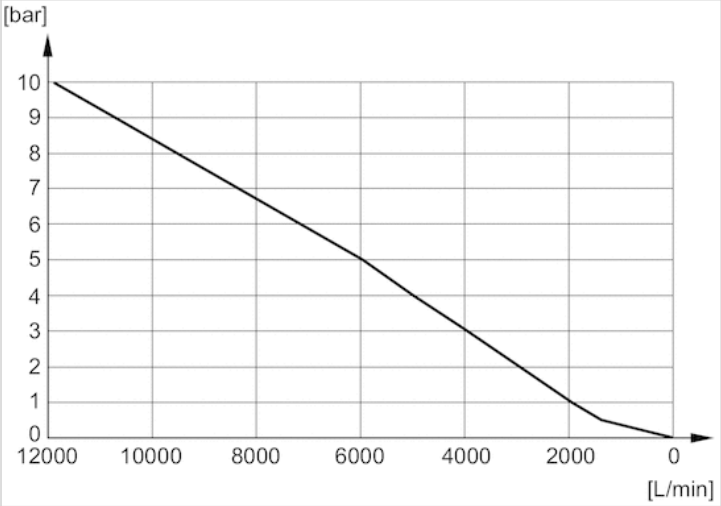
Flow diagram, 1827000020



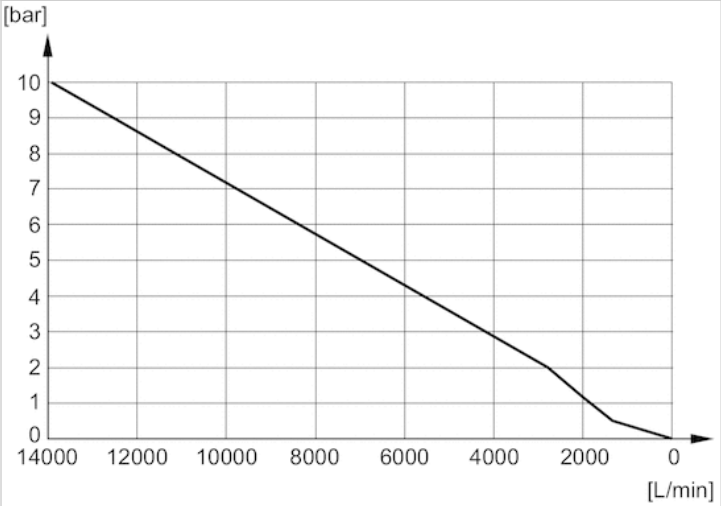
Flow diagram, 1827000021



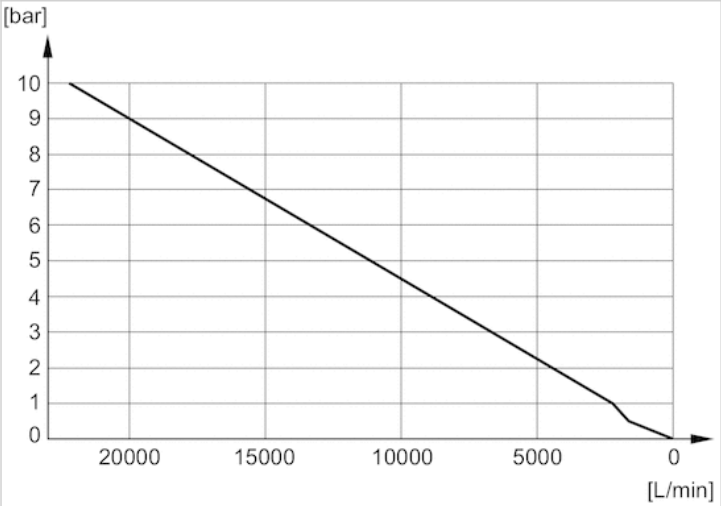
Flow diagram, 1827000022



Flow diagram, 1827000023

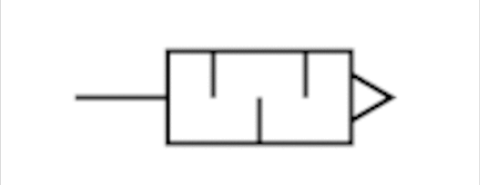


Flow diagram, 1827000024



Silencers, series SI1

- G 1/2
- Sintered bronze



Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Sound pressure level	85 dB
Weight	0.035 kg
Comment	Flow characteristic curves can be found under “Diagrams”.

Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827000035	G 1/2	2568 l/min	2 piece

Weight per piece

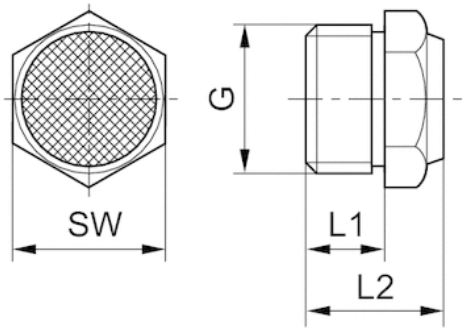
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Sintered bronze
Thread	Brass

Dimensions

Dimensions



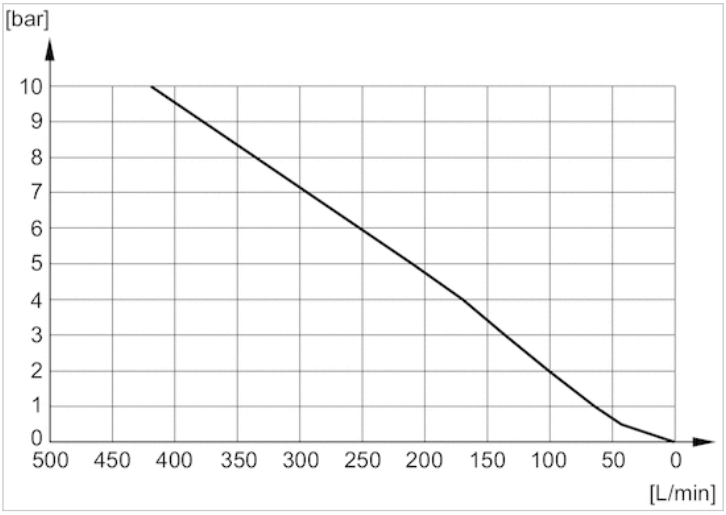
Dimensions

Part No.	Port G	L1	L2	SW
1827000035	G 1/2	12	19.5	27

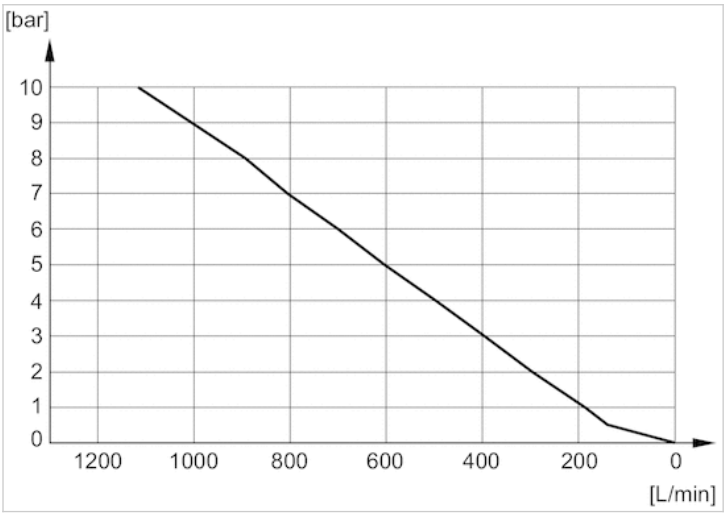
Sound pressure level measured at 6 bar at 1 m distance

Diagrams

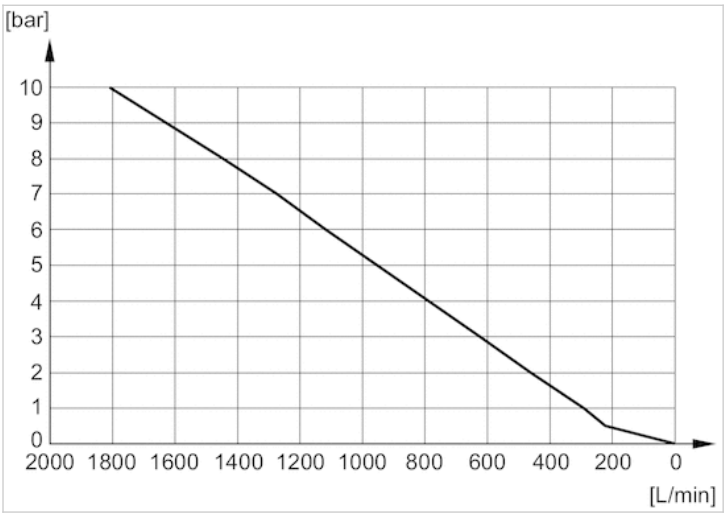
Flow diagram, 1827000032



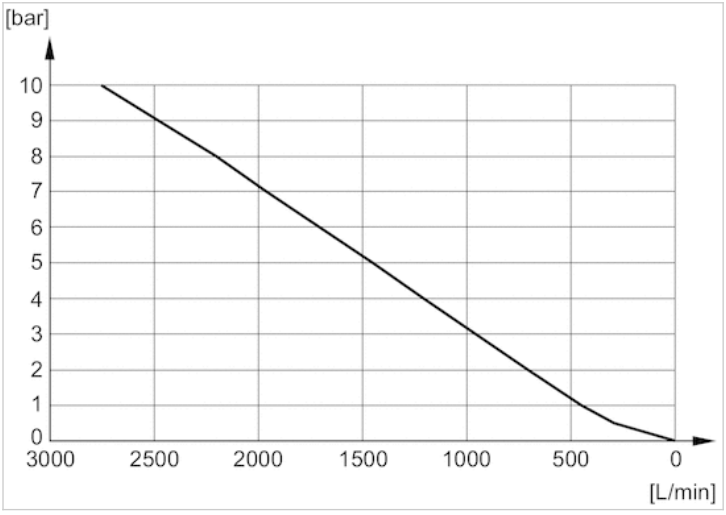
Flow diagram, 1827000031



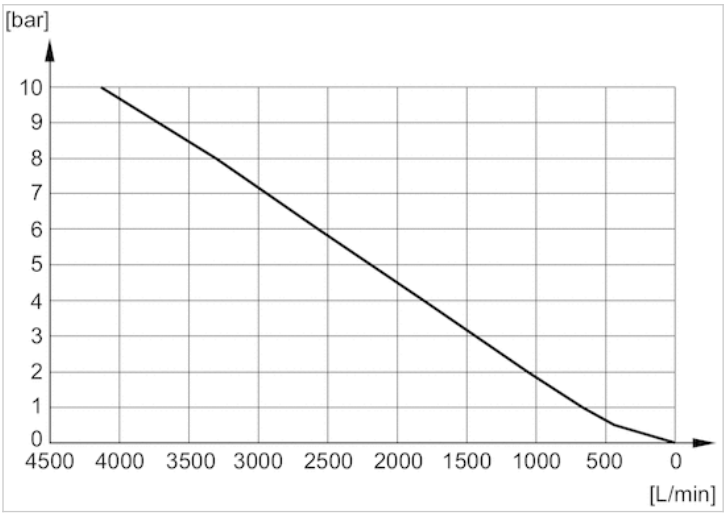
Flow diagram, 1827000033



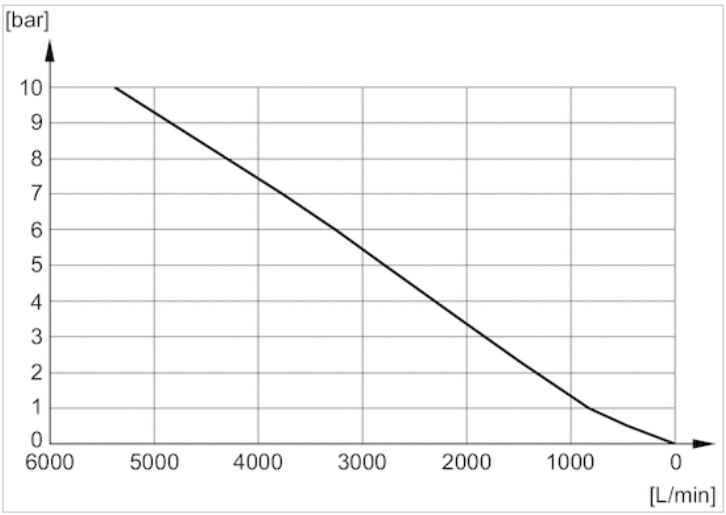
Flow diagram, 1827000034



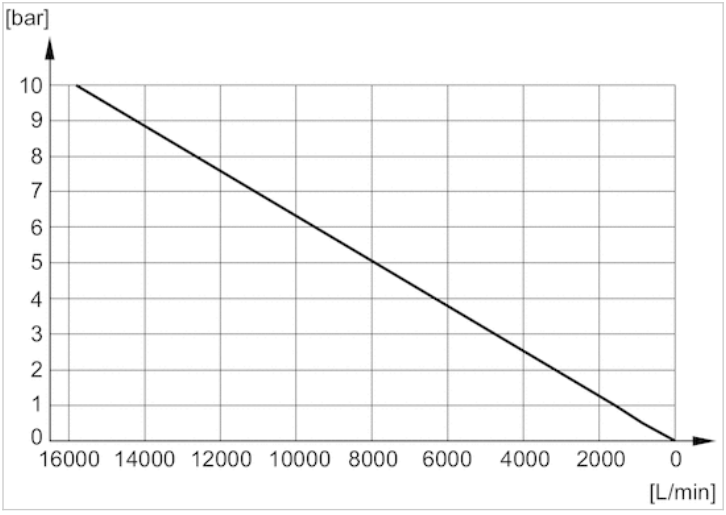
Flow diagram, 1827000035



Flow diagram, 8145003400

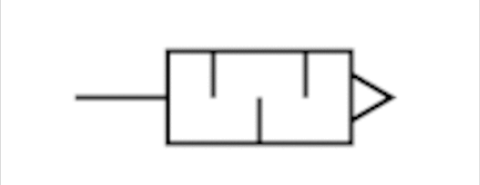


Flow diagram, 8145001000



Silencers, series SI1

- G 1/2
- 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	
R412007876	G 1/2	1343 l/min	2 piece

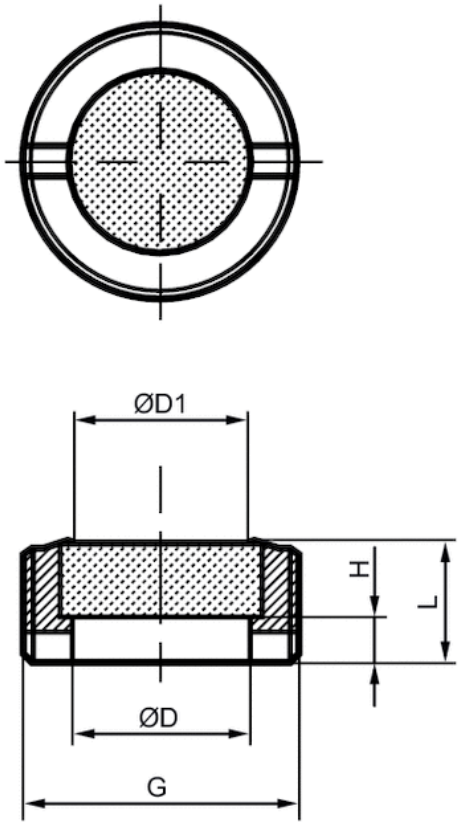
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Sintered bronze
Thread	Brass

Dimensions

Dimensions

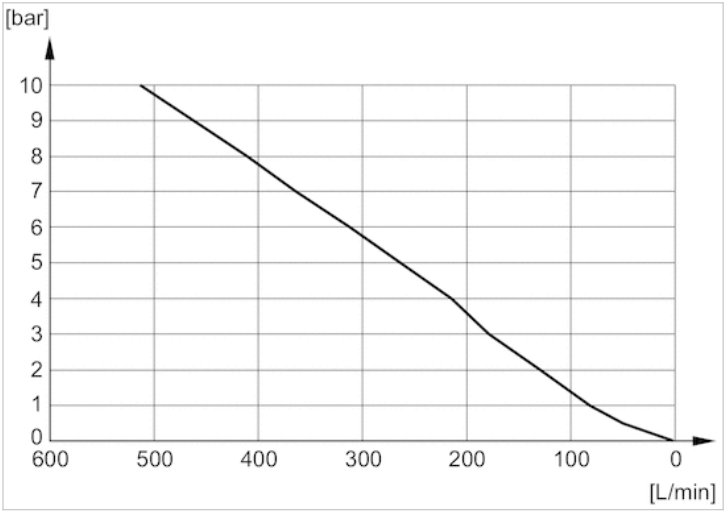


Dimensions

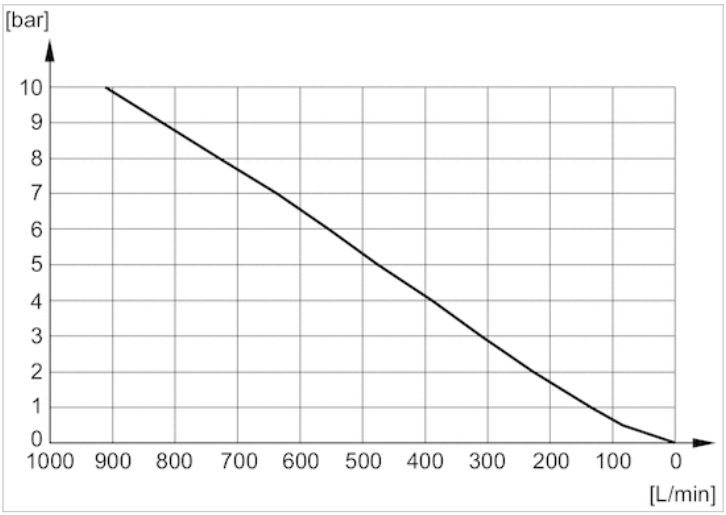
Part No.	Port G	Ø D	Ø D1	H	L
R412007876	G 1/2	15	12	5	9

Diagrams

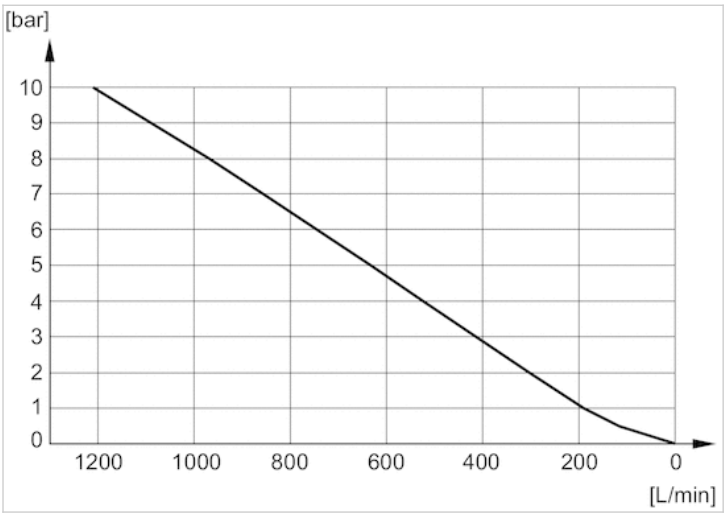
Flow diagram, 1827430004



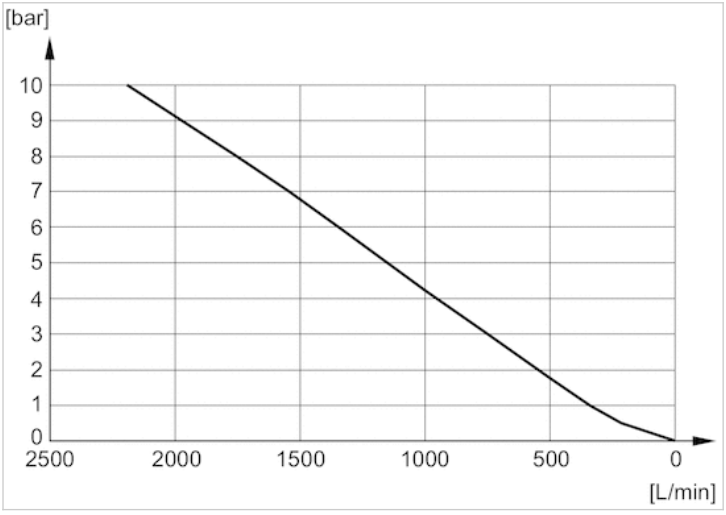
Flow diagram, R414000155



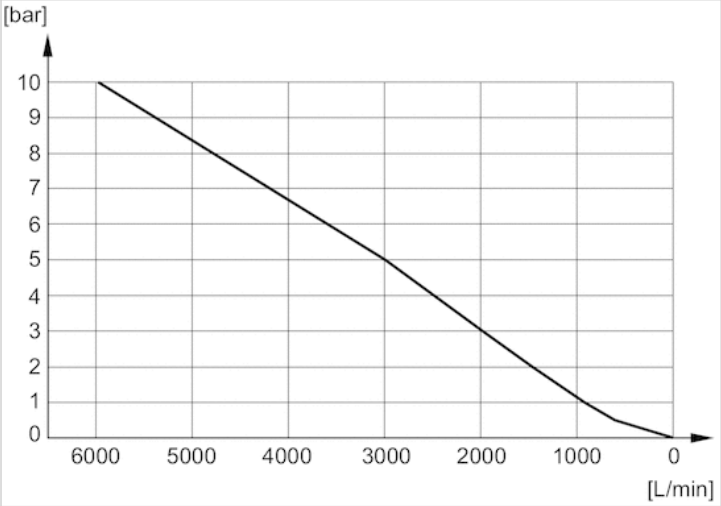
R412007875



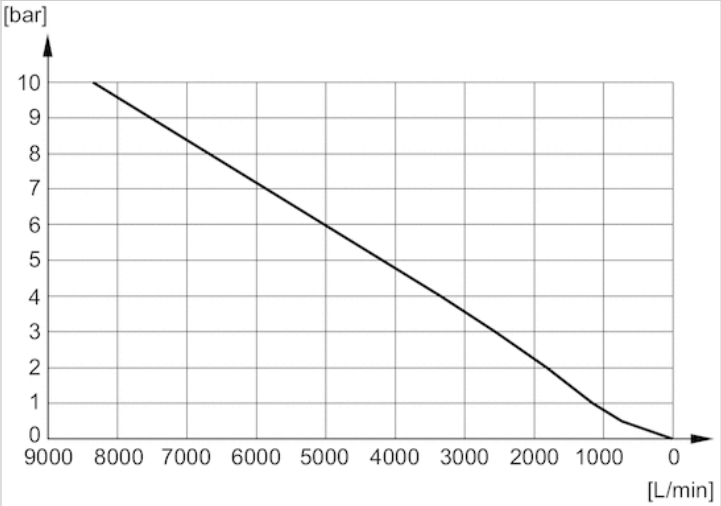
Flow diagram, R412007876



Flow diagram, R412007877



Flow diagram, R412007878



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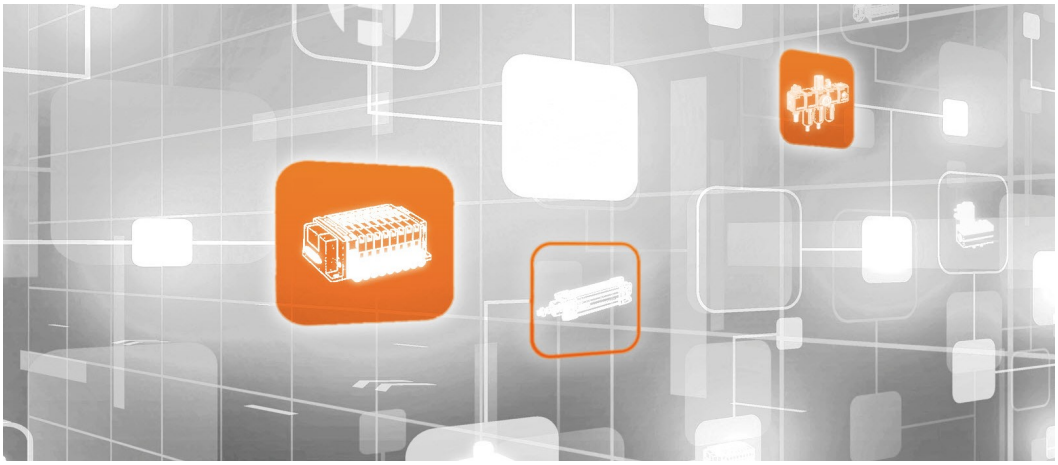

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