

Directional valves ► Electrically operated

Series CD07

Brochure



Directional valves ► Electrically operated

Series CD07
Electrically operated

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3/2-directional valve, Series CD07

► Qn = 1400 l/min ► Pilot valve width: 30 mm ► NC, NO ► pipe connection ► Compressed air connection
output: G 1/4 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without ► single solenoid



00134142

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 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 mg/m³ - 1 mg/m³
Nominal flow Qn	1400 l/min
Nominal flow 1 ► 2	1400 l/min
Nominal flow 2 ► 3	1400 l/min
Compressed air connection	according to ISO 228-1 with directional pilot air exhaust EN 175301-803:2006
Connector standard	See table below
Protection class with connection	Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.
- 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.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	6.8	5.7	4.3	3.3
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1
24 V	-	-	-20% / +30%	-	-	4.5	-	-	-	-
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	6.9	5.6	4.3	3.2

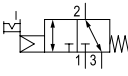
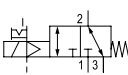
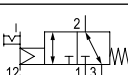
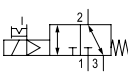
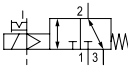
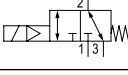
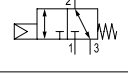
	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
	NC/NO	G 1/4	G 1/4	G 1/4	-	-	24 V	-	-	5772070220
							-	110 V	110 V	5772075270
							-	230 V	230 V	5772075280
							24 V	-	-	5772072220
							-	24 V	24 V	5772075220

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

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3/2-directional valve, Series CD07

► Q_n = 1400 l/min ► Pilot valve width: 30 mm ► NC, NO ► pipe connection ► Compressed air connection
 output: G 1/4 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without ► single solenoid

		MO	Compressed air connection					Operating voltage			Part No.
			Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
	NC/NO		G 1/4	G 1/4	G 1/4	-	-	-	-	-	5772075302
	NC/NO		G 1/4	G 1/4	G 1/4	G 1/8	M5	24 V - - -	- 110 V 230 V 24 V	- 110 V 230 V 24 V	5772080220 5772085270 5772085280 5772085220
	NC/NO		G 1/4	G 1/4	G 1/4	G 1/8	M5	-	-	-	5772085302
	NC/NO		G 1/4	G 1/4	G 1/4	-	-	24 V	-	-	R412004091
	NC/NO		G 1/4	G 1/4	G 1/4	G 1/8	M5	24 V	-	-	R412004092
	NC/NO	-	G 1/4	G 1/4	G 1/4	-	-	24 V	-	-	5772960220
	NC/NO	-	G 1/4	G 1/4	G 1/4	-	-	-	-	-	5772965302

Part No.	Power consumption	Holding power	Holding power	Switch-on power	Switch-on power	Working pressure min./max.	Ambient temperature min./max.	Medium temperature min./max.	Switch-on time
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz				
	[W]	[VA]	[VA]	[VA]	[VA]	[bar]	[°C]	[°C]	[ms]
5772070220	2.1	-	-	-	-	3 / 10	-25°C / +50°C	-25°C / +50°C	25
5772075270	-	4.3	3.3	6.8	5.7				
5772075280	-	4.8	4.1	6.9	5.8				
5772072220	4.5	-	-	-	-				
5772075220	-	4.3	3.2	6.9	5.6				
5772075302	-	-	-	-	-	3 / 10	-25°C / +50°C	-25°C / +50°C	-
5772080220	2.1	-	-	-	-	-0.95 / 10	-25°C / +50°C	-25°C / +50°C	25
5772085270	-	4.3	3.3	6.8	5.7				
5772085280	-	4.8	4.1	6.9	5.8				
5772085220	-	4.3	3.2	6.9	5.6				
5772085302	-	-	-	-	-	-0.95 / 10	-25°C / +50°C	-25°C / +50°C	-
R412004091	2.1	-	-	-	-	3 / 10	-10°C / +50°C	-10°C / +50°C	25
R412004092	2.1	-	-	-	-	-0.95 / 10	-10°C / +50°C	-10°C / +50°C	25
5772960220	2.1	-	-	-	-	3 / 10	-25°C / +50°C	-25°C / +50°C	25
5772965302	-	-	-	-	-	3 / 10	-25°C / +50°C	-25°C / +50°C	-

Directional valves ► Electrically operated

3/2-directional valve, Series CD07

► Qn = 1400 l/min ► Pilot valve width: 30 mm ► NC, NO ► pipe connection ► Compressed air connection
output: G 1/4 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without ► single solenoid

Part No.	Switch-off time	Protection class	Weight	Note
	[ms]		[kg]	
5772070220				1)
5772075270				1)
5772075280	45	IP65	0.54	1)
5772072220				1); 4)
5772075220				1)
5772075302	-	-	-	1); 3); 5)
5772080220				
5772085270	45	IP65	0.54	2)
5772085280				
5772085220				
5772085302	-	-	-	2); 3); 5)
R412004091	45	IP65	0.54	1); 6)
R412004092	45	IP65	0.54	2); 6)
5772960220	45	IP65	0.54	1)
5772965302	-	-	-	1); 3)

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

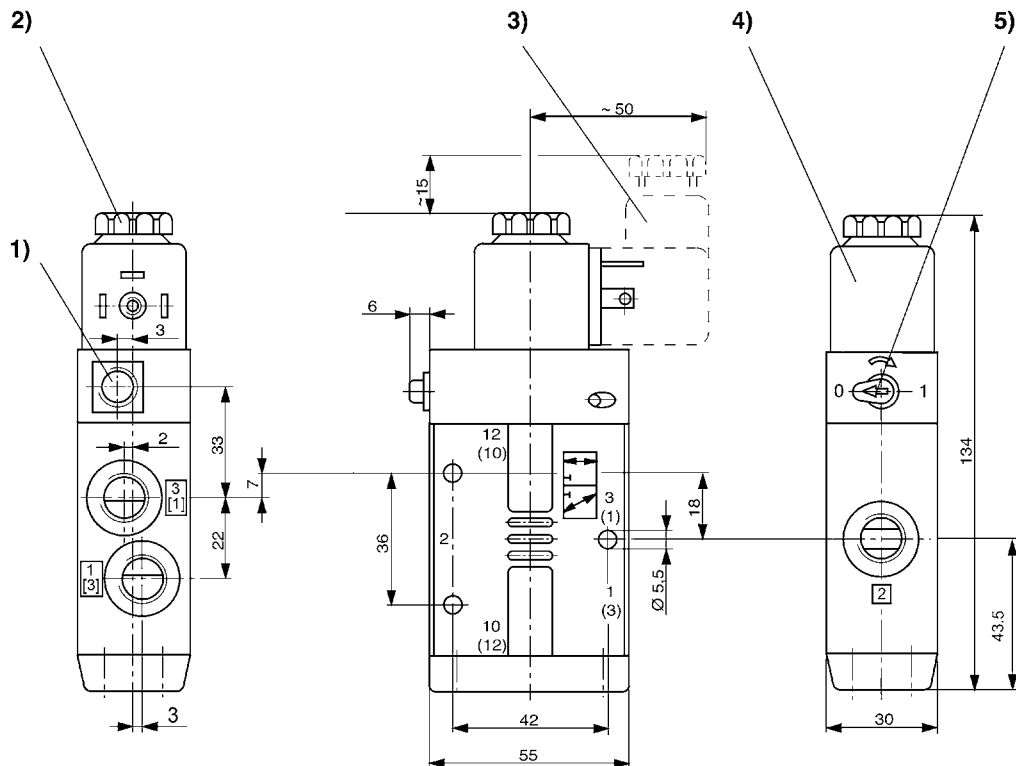
4) Higher voltage tolerance

5) ATEX optional

6) ATEX certified

Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions



D577_207

1) only with separate pilot control G 1/8 2) after removal of cap M 5 internal thread M5 3) el. connector can

4) coil can be plugged at 45° intervals 5) manual override

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

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3/2-directional valve, Series CD07

► Q_n = 1400 l/min ► Pilot valve width: 30 mm ► NC, NO ► pipe connection ► Compressed air connection output: M14x1,5 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► single solenoid



00134142

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-25 °C / +50 °C
Medium temperature min./max.	-25 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Nominal flow Q _n	1400 l/min
Nominal flow 1 ► 2	1400 l/min
Nominal flow 2 ► 3	1400 l/min
Connector standard	with directional pilot air exhaust EN 175301-803:2006
Protection class with connection	See table below Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.
- 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.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	6.8	5.7	4.3	3.3
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1
110 V	-	-	-20% / +30%	-	-	4.1	-	-	-	-

		MO	Compressed air connection					Operating voltage			Part No.
			Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
	NC/NO		M14x1,5	M14x1,5	M14x1,5	-	-	24 V	-	-	5772020220
								-	110 V	110 V	5772025270
								-	230 V	230 V	5772025280
								110 V	-	-	5772020770
	NC/NO		M14x1,5	M14x1,5	M14x1,5	-	-	-	-	-	5772025302

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

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Directional valves ► Electrically operated

3/2-directional valve, Series CD07

► Qn = 1400 l/min ► Pilot valve width: 30 mm ► NC, NO ► pipe connection ► Compressed air connection output: M14x1,5 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► single solenoid

		MO	Compressed air connection					Operating voltage			Part No.
			Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
	NC/NO		M14x1,5	M14x1,5	M14x1,5	G 1/8	M5	24 V -	- 230 V	- 230 V	5772030220 5772035280
	NC/NO		M14x1,5	M14x1,5	M14x1,5	G 1/8	M5	-	-	-	5772035302

Part No.	Power consumption	Hold-ing power	Hold-ing power	Switch-on power	Switch-on power	Working pressure min./max.	Switch-on time	Switch-off time	Pro-tection class	Weight
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz					
	[W]	[VA]	[VA]	[VA]	[VA]	[bar]	[ms]	[ms]		[kg]
5772020220	2.1	-	-	-	-	3 / 10	25	45	IP65	0.54
5772025270	-	4.3	3.3	6.8	5.7					
5772025280	-	4.8	4.1	6.9	5.8					
5772020770	4.1	-	-	-	-	3 / 10	-	-	-	-
5772025302	-	-	-	-	-					
5772030220	2.1	-	-	-	-					
5772035280	-	4.8	4.1	6.9	5.8	-0.95 / 10	25	45	IP65	0.54
5772035302	-	-	-	-	-	-0.95 / 10	-	-	-	-

Part No.	Note
5772020220 5772025270 5772025280 5772020770	1)
5772025302	1); 3); 4)
5772030220 5772035280	2)
5772035302	2); 3); 4)

MO = Manual override

1) Pilot: internal

2) Pilot: external

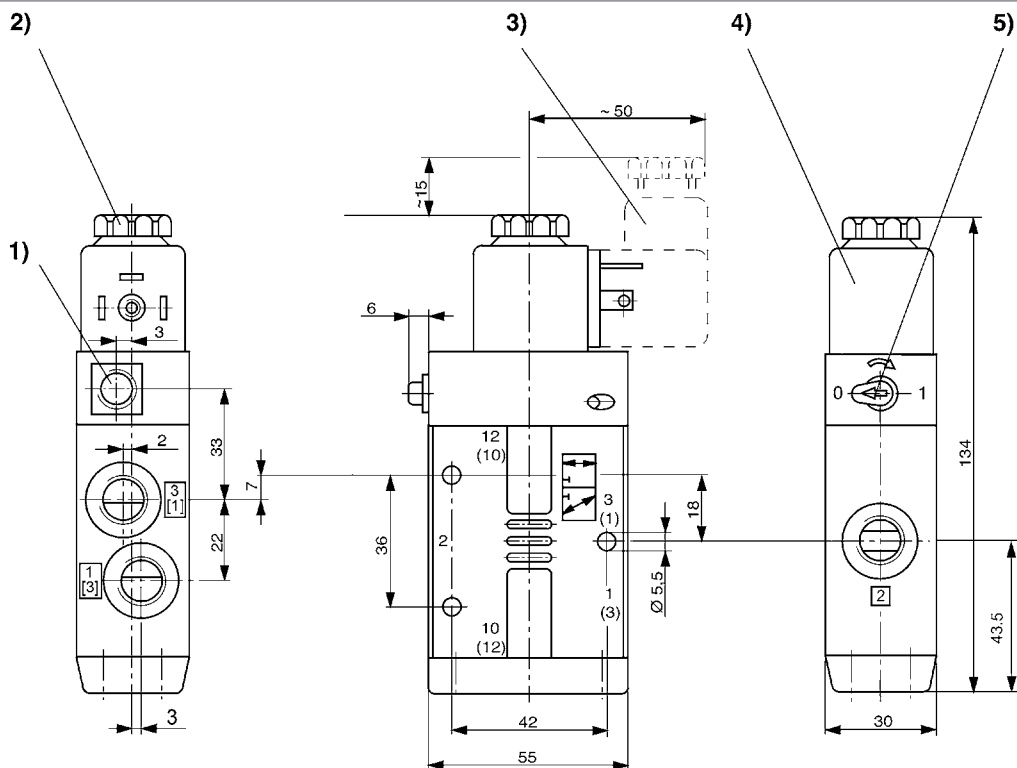
3) Basic valve without coil

4) ATEX optional

Nominal flow Qn at 6 bar and Δp = 1 bar

3/2-directional valve, Series CD07

► $Q_n = 1400 \text{ l/min}$ ► Pilot valve width: 30 mm ► NC, NO ► pipe connection ► Compressed air connection output: M14x1,5 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► single solenoid

Dimensions


D577_207

- 1) only with separate pilot control G 1/8 2) after removal of cap M 5 internal thread M5 3) el. connector can
4) coil can be plugged at 45° intervals 5) manual override

Directional valves ► Electrically operated

5/2-directional valve, Series CD07

► Q_n = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without ► single solenoid



00134143

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 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 mg/m³ - 1 mg/m³
Nominal flow Q _n	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 with directional pilot air exhaust EN 175301-803:2006
Connector standard	See table below
Protection class with connection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.
- 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.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +15%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
96 V	-	-	-30% / +30%	-	-	5.8	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	6.8	5.7	4.3	3.3

	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	G 1/4	G 1/4	-	-	24 V	-	-	5776070220
							-	230 V	230 V	5776075280
		G 1/4	G 1/4	G 1/4	G 1/8	M5	24 V	-	-	5776080220
							-	230 V	230 V	5776085280

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

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5/2-directional valve, Series CD07

► Q_n = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without ► single solenoid

	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	G 1/4	G 1/4	-	-	-	-	-	5776075302
		G 1/4	G 1/4	G 1/4	G 1/8	M5	-	-	-	5776085302
		G 1/4	G 1/4	G 1/4	-	-	24 V 96 V	-	-	R412004093 5776070360
		G 1/4	G 1/4	G 1/4	G 1/8	M5	-	110 V	110 V	5776085270
	-	G 1/4	G 1/4	G 1/4	-	-	24 V	-	-	5776980220

Part No.	Power consumption	Holding power	Holding power	Switch-on power	Switch-on power	Working pressure min./max.	Ambient temperature min./max.	Medium temperature min./max.	Switch-on time
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz				
	[W]	[VA]	[VA]	[VA]	[VA]	[bar]	[°C]	[°C]	[ms]
5776070220	2.1	-	-	-	-	3 / 10	-25°C / +50°C	-25°C / +50°C	25
5776075280	-	4.8	4.1	6.9	5.8	-	-	-	-
5776080220	2.1	-	-	-	-	-0.95 / 10	-25°C / +50°C	-25°C / +50°C	25
5776085280	-	4.8	4.1	6.9	5.8	-	-	-	-
5776075302	-	-	-	-	-	3 / 10	-25°C / +50°C	-25°C / +50°C	-
5776085302	-	-	-	-	-	-0.95 / 10	-25°C / +50°C	-25°C / +50°C	-
R412004093	2.1	-	-	-	-	3 / 10	-10°C / +50°C	-10°C / +50°C	25
5776070360	5.8	-	-	-	-	-	-25°C / +50°C	-25°C / +50°C	-
5776085270	-	4.3	3.3	6.8	5.7	-0.95 / 10	-25°C / +50°C	-25°C / +50°C	25
5776980220	2.1	-	-	-	-	3 / 10	-25°C / +50°C	-25°C / +50°C	25

Part No.	Switch-off time	Compatibility index	Protection class	Weight	Note
	[ms]			[kg]	
5776070220	45	13, 14	IP65	0.57	2)
5776075280	-	-	-	-	-
5776080220	45	13, 14	IP65	0.57	3)
5776085280	-	-	-	-	-
5776075302	-	13, 14	-	-	2); 4); 5)
5776085302	-	13, 14	-	-	3); 4); 5)
R412004093	45	13, 14	IP65	0.57	2); 6)
5776070360	-	14	-	-	2)
5776085270	45	14	IP65	0.57	3)
5776980220	45	14	IP65	0.57	2)

MO = Manual override

1) Nickel-plated armature guide (only suitable for DC variant), i.e. the base must not be equipped with AC coils.

2) Pilot: internal

3) Pilot: external

4) Basic valve without coil

5) ATEX optional

6) ATEX certified

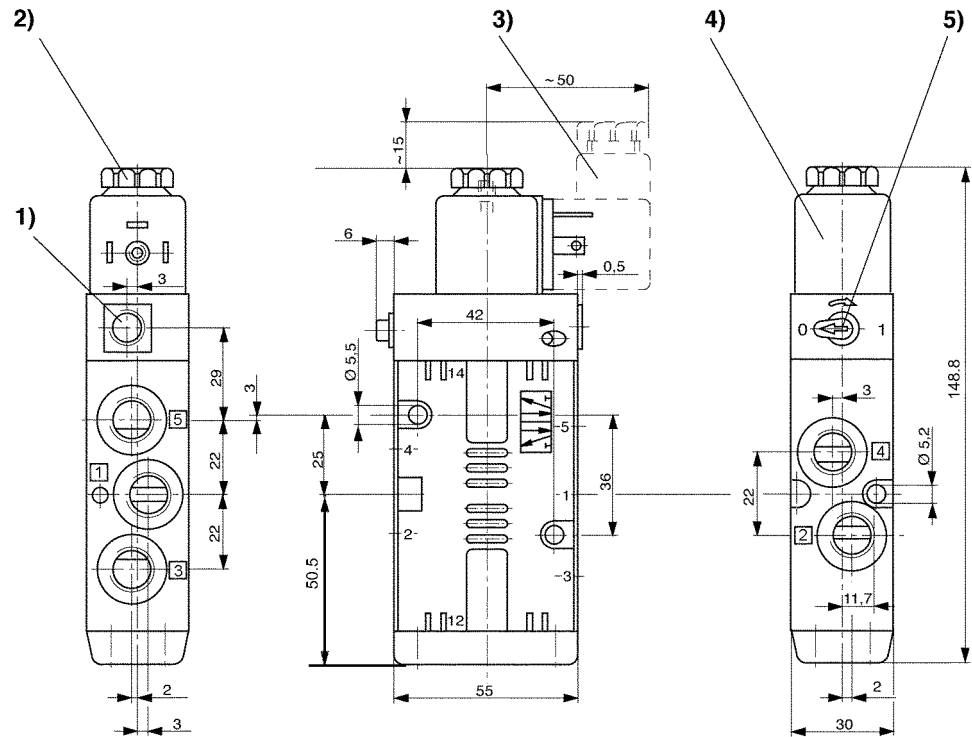
Nominal flow Q_n at 6 bar and Δp = 1 bar

Directional valves ► Electrically operated

5/2-directional valve, Series CD07

- $Q_n = 1200 \text{ l/min}$ ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
- Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent, without ► single solenoid

Dimensions



D577_608

- 1) only with separate pilot control G 1/8 2) after removal of cap M 5 internal thread M5 3) el. connector can
4) coil can be plugged at 45° intervals 5) manual override

5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
 ► Electr. connection: Plug, EN 175301-803, form A ► cold-resistant ► Manual override: with detent ► double solenoid ► Pilot: internal



Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	3 bar / 10 bar
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-40 °C / +50 °C
Medium temperature min./max.	-40 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
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 with directional pilot air exhaust EN 175301-803:2006
Connector standard	See table below
Protection class with connection	Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Weight	0.75 kg
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Polyurethane

Technical Remarks

- 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, see chapter „Technical information“.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1

	MO	Compressed air connection				Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	G 1/4	G 1/4	M5	24 V	-	-	5776840220
						-	230 V	230 V	5776845280
		G 1/4	G 1/4	G 1/4	M5	-	-	-	5776845302

Directional valves ► Electrically operated

5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
► Electr. connection: Plug, EN 175301-803, form A ► cold-resistant ► Manual override: with detent ► double solenoid ► Pilot: internal

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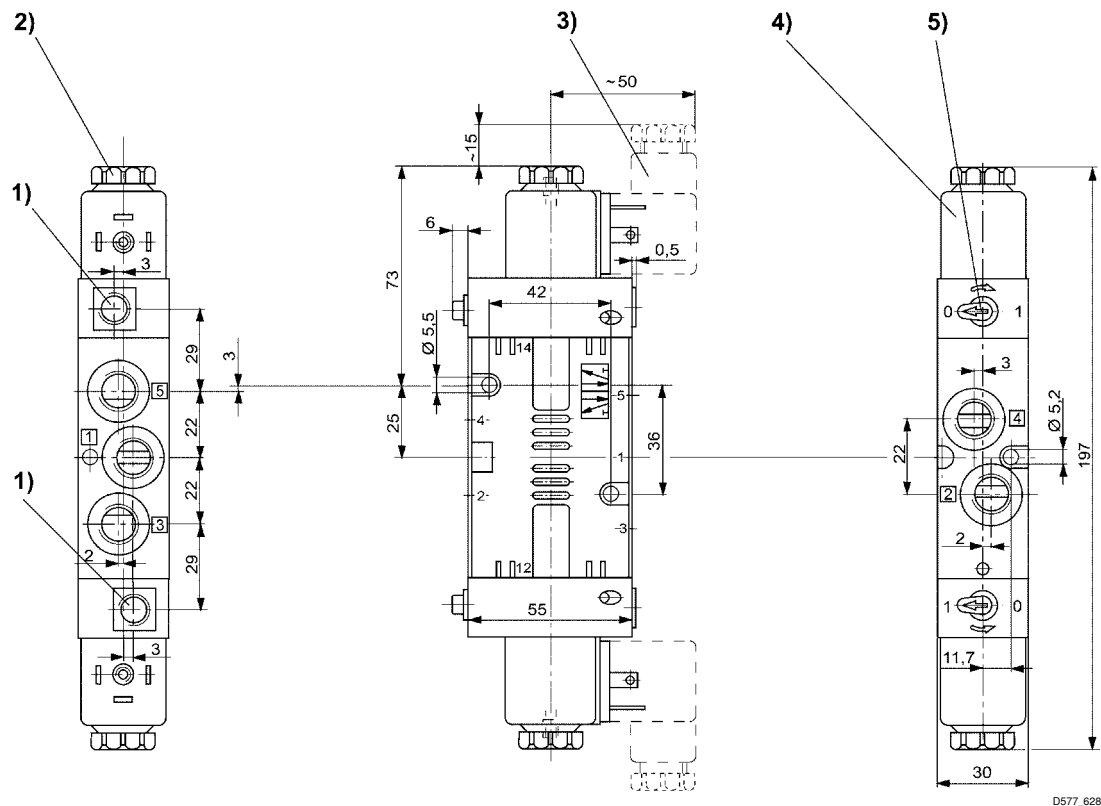
MO = Manual override

1) Basic valve without coil

2) ATEX optional

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

Dimensions



1) only with separate pilot control G 1/8 2) after removal of cap M 5 internal thread M5 3) el. connector can

4) coil can be plugged at 45° intervals 5) manual override

5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
 ► Electr. connection: Plug, EN 175301-803, form A ► cold-resistant ► Manual override: with detent ► single solenoid ► Pilot: internal



00134143

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	4 bar / 10 bar
Control pressure min./max.	4 bar / 10 bar
Ambient temperature min./max.	-40 °C / +50 °C
Medium temperature min./max.	-40 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
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 with directional pilot air exhaust EN 175301-803:2006
Connector standard	See table below
Protection class with connection	Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Typ. switch-on time	25 ms
Typ. switch-off time	45 ms
Weight	0.57 kg
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Polyurethane

Technical Remarks

- 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, see chapter „Technical information“.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1

	MO	Compressed air connection				Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	G 1/4	G 1/4	M5	24 V	-	-	5776960220
						-	230 V	230 V	5776965280
		G 1/4	G 1/4	G 1/4	M5	-	-	-	5776965302

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

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► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
► Electr. connection: Plug, EN 175301-803, form A ► cold-resistant ► Manual override: with detent ► single solenoid ► Pilot: internal

MO = Manual override
1) Basic valve without coil
2) ATEX optional
Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

[illegible]

1) only with separate pilot control G 1/8 2) after removal of cap M 5 internal thread M5 3) el. connector can
4) coil can be plugged at 45° intervals 5) manual override

5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid



00134144

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	See table below
Control pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-25 °C / +50 °C
Medium temperature min./max.	-25 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
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 with directional pilot air exhaust EN 175301-803:2006
Connector standard	See table below
Protection class with connection	Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.
- 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.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
24 V	-	-	-20% / +30%	-	-	4.5	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	6.8	5.7	4.3	3.3
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	6.9	5.6	4.3	3.2

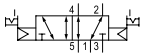
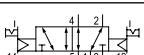
	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	G 1/4	G 1/4	-	-	24 V	-	-	5776270220
							24 V	-	-	5776272220
							-	110 V	110 V	5776275270
							-	230 V	230 V	5776275280
							-	24 V	24 V	5776275220

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

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Directional valves ► Electrically operated
5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid

	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	G 1/4	G 1/4	-	-	-	-	-	5776275302
		G 1/4	G 1/4	G 1/4	G 1/8	M5	24 V - -	- 110 V 230 V	- 110 V 230 V	5776280220 5776285270 5776285280
		G 1/4	G 1/4	G 1/4	G 1/8	M5	-	-	-	5776285302

Part No.	Power consumption	Hold-ing power	Hold-ing power	Switch-on power	Switch-on power	Working pressure min./max.	Switch-on time	Switch-off time	Pro-tection class	Weight
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz					
	[W]	[VA]	[VA]	[VA]	[VA]	[bar]	[ms]	[ms]		[kg]
5776270220	2.1	-	-	-	-					
5776272220	4.5	-	-	-	-					
5776275270	-	4.3	3.3	6.8	5.7	2 / 10	21	21	IP65	0.75
5776275280	-	4.8	4.1	6.9	5.8					
5776275220	-	4.3	3.2	6.9	5.6					
5776275302	-	-	-	-	-	2 / 10	-	-	-	-
5776280220	2.1	-	-	-	-					
5776285270	-	4.3	3.3	6.8	5.7	-0.95 / 10	21	21	IP65	0.75
5776285280	-	4.8	4.1	6.9	5.8					
5776285302	-	-	-	-	-	-0.95 / 10	-	-	-	-

Part No.	Note
5776270220	1)
5776272220	1); 4)
5776275270	1)
5776275280	1)
5776275220	1)
5776275302	1); 3); 5)
5776280220	
5776285270	2)
5776285280	
5776285302	2); 3); 5)

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

4) Higher power consumption

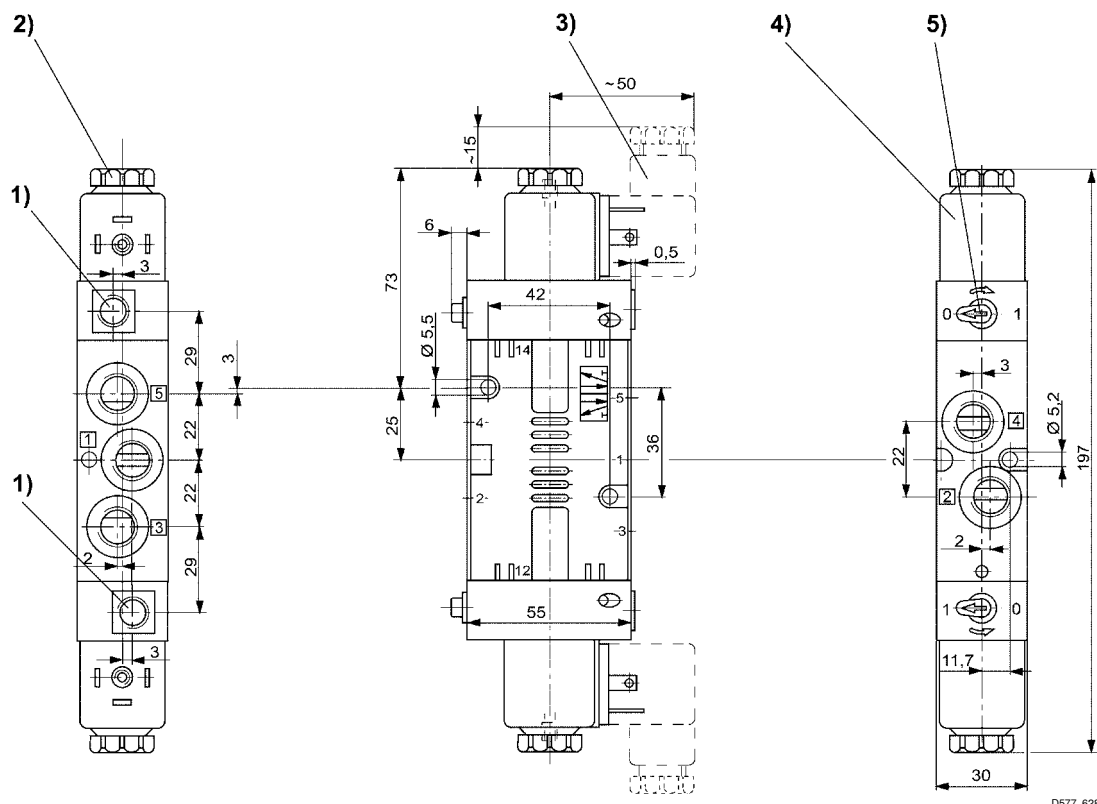
5) ATEX optional

Nominal flow Qn at 6 bar and Δp = 1 bar

5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid

Dimensions



1) only with separate pilot control G 1/8 2) after removal of cap M 5 internal thread M5 3) el. connector can
4) coil can be plugged at 45° intervals 5) manual override

Directional valves ► Electrically operated

5/2-directional valve, Series CD07

- Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: M14x1,5
► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► single solenoid



00134143

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-25 °C / +50 °C
Medium temperature min./max.	-25 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Nominal flow Qn	1200 l/min
Nominal flow 1 ► 2	1200 l/min
Nominal flow 2 ► 3	1200 l/min
Connector standard	with directional pilot air exhaust EN 175301-803:2006
Protection class with connection	See table below Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.
- 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.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	6.8	5.7	4.3	3.3
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1

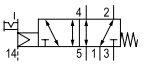
	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		M14x1,5	M14x1,5	M14x1,5	-	M5	24 V	-	-	5776020220
							-	110 V	110 V	5776025270
							-	230 V	230 V	5776025280
		M14x1,5	M14x1,5	M14x1,5	-	M5	-	-	-	5776025302
		M14x1,5	M14x1,5	M14x1,5	G 1/8	M5	24 V	-	-	5776030220
							-	230 V	230 V	5776035280

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

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5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: M14x1,5
 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► single solenoid

	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		M14x1,5	M14x1,5	M14x1,5	G 1/8	M5	-	-	-	5776035302

Part No.	Power consumption	Hold-ing power	Hold-ing power	Switch-on power	Switch-on power	Working pressure min./max.	Switch-on time	Switch-off time	Pro-tection class	Weight
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz					
	[W]	[VA]	[VA]	[VA]	[VA]	[bar]	[ms]	[ms]		[kg]
5776020220	2.1	-	-	-	-					
5776025270	-	4.3	3.3	6.8	5.7	3 / 10	25	45	IP65	0.57
5776025280	-	4.8	4.1	6.9	5.8					
5776025302	-	-	-	-	-	3 / 10	-	-	-	-
5776030220	2.1	-	-	-	-					
5776035280	-	4.8	4.1	6.9	5.8	-0.95 / 10	25	45	IP65	0.57
5776035302	-	-	-	-	-	-0.95 / 10	-	-	-	-

Part No.	Note
5776020220	
5776025270	1)
5776025280	
5776025302	1); 3); 4)
5776030220	
5776035280	2)
5776035302	2); 3); 4)

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

4) ATEX optional

Nominal flow Qn at 6 bar and Δp = 1 bar

[illegible]

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5/2-directional valve, Series CD07

▶ Qn = 1200 l/min ▶ Pilot valve width: 30 mm ▶ pipe connection ▶ Compressed air connection output: M14x1,5
 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ Manual override: with detent ▶ double solenoid



00134144

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	See table below
Control pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-25 °C / +50 °C
Medium temperature min./max.	-25 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Nominal flow Qn	1200 l/min
Nominal flow 1 ▶ 2	1200 l/min
Nominal flow 2 ▶ 3	1200 l/min
Connector standard	with directional pilot air exhaust EN 175301-803:2006
Protection class with connection	See table below Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Weight	0.75 kg
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Technical Remarks

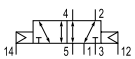
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- 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.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1

	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		M14x1,5	M14x1,5	M14x1,5	-	M5	24 V	-	-	5776220220
							-	230 V	230 V	5776225280
		M14x1,5	M14x1,5	M14x1,5	-	M5	-	-	-	5776225302
		M14x1,5	M14x1,5	M14x1,5	G 1/8	M5	24 V	-	-	5776230220
							-	230 V	230 V	5776235280

Directional valves ► Electrically operated
5/2-directional valve, Series CD07

- Q_n = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: M14x1,5
 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid

	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		M14x1,5	M14x1,5	M14x1,5	G 1/8	M5	-	-	-	5776235302

Part No.	Power consumption	Hold-ing power	Hold-ing power	Switch-on power	Switch-on power	Working pressure min./max.	Switch-on time	Switch-off time	Pro-tection class	Note
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz					
	[W]	[VA]	[VA]	[VA]	[VA]	[bar]	[ms]	[ms]		
5776220220	2.1	-	-	-	-	2 / 10	21	21	IP65	1)
5776225280	-	4.8	4.1	6.9	5.8					
5776225302	-	-	-	-	-	2 / 10	-	-	-	1); 3); 4)
5776230220	2.1	-	-	-	-	-0.95 / 10	21	21	IP65	2)
5776235280	-	4.8	4.1	6.9	5.8					
5776235302	-	-	-	-	-	-0.95 / 10	-	-	-	2); 3); 4)

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

4) ATEX optional

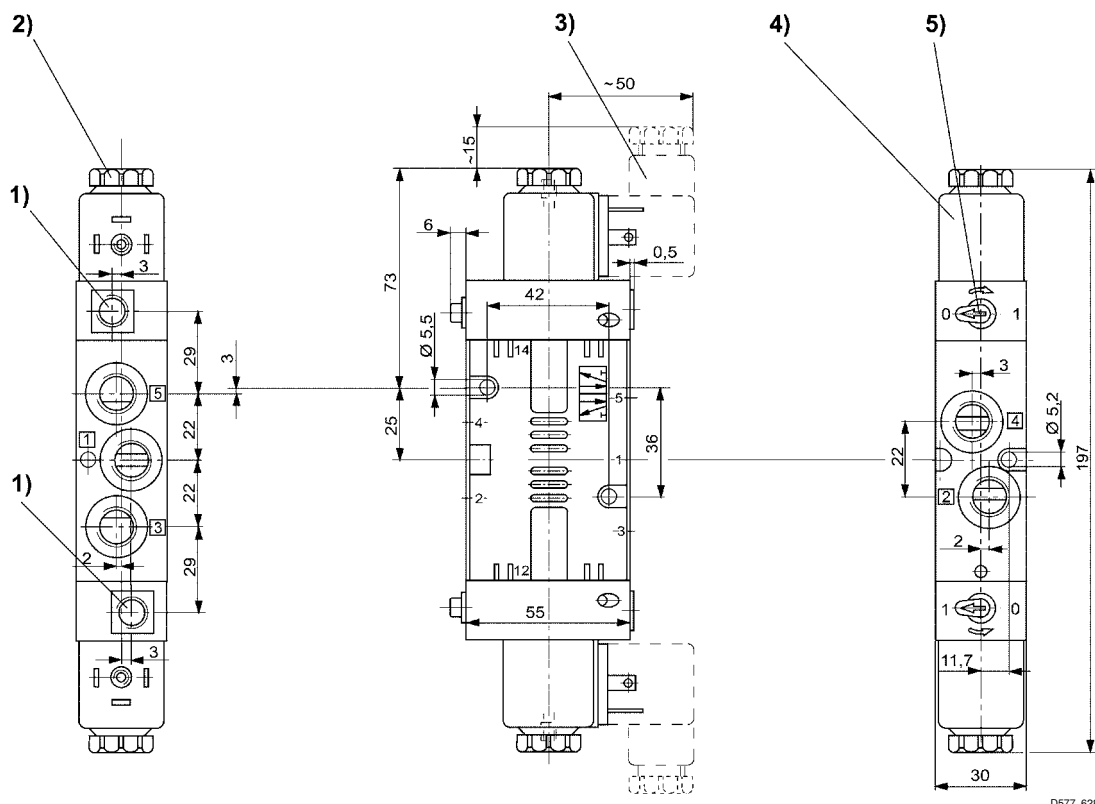
Nominal flow Q_n at 6 bar and Δp = 1 bar

MO = Manual override

5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: M14x1,5
► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid

Dimensions



1) only with separate pilot control G 1/8 2) after removal of cap M 5 internal thread M5 3) el. connector can
4) coil can be plugged at 45° intervals 5) manual override

Directional valves ► Electrically operated

5/3-directional valve, Series CD07

► Qn = 880 - 1070 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid



Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 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 mg/m³ - 1 mg/m³
Nominal flow Qn	900 l/min
Nominal flow 1 ► 2	See table below
Nominal flow 2 ► 3	See table below
Compressed air connection	according to ISO 228-1 with directional pilot air exhaust EN 175301-803:2006
Connector standard	See table below
Protection class with connection	Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced

Technical Remarks

- 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, see chapter „Technical information“.
- 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.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	6.8	5.7	4.3	3.3
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	6.9	5.6	4.3	3.2

	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	G 1/4	G 1/4	-	M5	24 V	-	-	5777770220
							-	110 V	110 V	5777775270
							-	230 V	230 V	5777775280
							-	24 V	24 V	5777775220
		G 1/4	G 1/4	G 1/4	-	M5	-	-	-	5777775302

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

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5/3-directional valve, Series CD07

► Q_n = 880 - 1070 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid

	MO	Compressed air connection					Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Input	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	G 1/4	G 1/4	G 1/8	M5	-	-	-	5777955302
		G 1/4	G 1/4	G 1/4	-	M5	24 V -	- 230 V	- 230 V	5777720220 5777725280
		G 1/4	G 1/4	G 1/4	-	M5	-	-	-	5777725302
		G 1/4	G 1/4	G 1/4	G 1/8	M5	24 V -	- 230 V	- 230 V	R412003424 5777955280
		G 1/4	G 1/4	G 1/4	-	M5	24 V -	- 110 V 230 V	- 110 V 230 V	5777760220 5777765270 5777765280
		G 1/4	G 1/4	G 1/4	-	M5	-	-	-	5777765302
		G 1/4	G 1/4	G 1/4	G 1/8	M5	-	-	-	5777945302
		G 1/4	G 1/4	G 1/4	-	M5	24 V -	- 230 V	- 230 V	5777710220 5777715280
		G 1/4	G 1/4	G 1/4	-	M5	-	-	-	5777715302
		G 1/4	G 1/4	G 1/4	-	M5	24 V - 24 V	- 230 V -	- 230 V -	5777750220 5777755280 5777755302 5777700220
		G 1/4	G 1/4	G 1/4	-	M5	-	-	-	5777705302

Part No.	Power consumption	Hold-ing power		Switch-on power	Switch-on power	Flow rate value		Working pressure min./max.	Ambient temperature min./max.	Medium temperature min./max.
		DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	Q _n 1►2 Q _n 2►3			
		[W]	[VA]	[VA]	[VA]	[VA]	[l/min]	[bar]	[°C]	[°C]
5777770220	2.1	-	-	-	-	-	1070	950	3 / 10	+0°C / +50°C
5777775270	-	4.3	3.3	6.8	5.7	-				
5777775280	-	4.8	4.1	6.9	5.8	-				
5777775220	-	4.3	3.2	6.9	5.6	-				
5777775302	-	-	-	-	-	-	1070	950	3 / 10	+0°C / +50°C
5777955302	-	-	-	-	-	-	1070	950	-0.95 / 10	+0°C / +50°C
5777720220	2.1	-	-	-	-	-	1070	950	3 / 10	-25°C / +50°C
5777725280	-	4.8	4.1	6.9	5.8	-				
5777725302	-	-	-	-	-	-	1070	950	3 / 10	-25°C / +50°C
R412003424	2.1	-	-	-	-	-	1070	950	-0.95 / 10	+0°C / +50°C
5777955280	-	4.8	4.1	6.9	5.8	-				
5777760220	2.1	-	-	-	-	-	1030	880	3 / 10	+0°C / +50°C
5777765270	-	4.3	3.3	6.8	5.7	-				
5777765280	-	4.8	4.1	6.9	5.8	-				
5777765302	-	-	-	-	-	-	1030	880	3 / 10	+0°C / +50°C
5777945302	-	-	-	-	-	-	1030	880	-0.95 / 10	+0°C / +50°C
5777710220	2.1	-	-	-	-	-	1030	880	3 / 10	-25°C / +50°C
5777715280	-	4.8	4.1	6.9	5.8	-				

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

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Directional valves ► Electrically operated

5/3-directional valve, Series CD07

► Qn = 880 - 1070 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4

► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid

Part No.	Power consumption	Hold-ing power	Hold-ing power	Switch-on power	Switch-on power	Flow rate value		Working pressure min./max.	Ambient temperature min./max.	Medium temperature min./max.
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn 1►2	Qn 2►3			
	[W]	[VA]	[VA]	[VA]	[VA]	[l/min]		[bar]	[°C]	[°C]
5777715302	-	-	-	-	-	1030	880	3 / 10	-25°C / +50°C	-25°C / +50°C
5777750220	2.1	-	-	-	-	960	900	3 / 10	+0°C / +50°C	+0°C / +50°C
5777755280	-	4.8	4.1	6.9	5.8				+0°C / +50°C	+0°C / +50°C
5777755302	-	-	-	-	-				+0°C / +50°C	+0°C / +50°C
5777700220	2.1	-	-	-	-				-25°C / +50°C	-25°C / +50°C
5777705302	-	-	-	-	-	960	900	3 / 10	-25°C / +50°C	-25°C / +50°C

Part No.	Switch-on time	Switch-off time	Protection class	Weight	Fig.	Note
	[ms]	[ms]		[kg]		
577770220	25	55	IP65	0.72	Fig. 1	1); 4)
577775270						
577775280						
577775220						
577775302	-	-	-	-	Fig. 2	1); 3); 4); 6)
5777955302	-	-	-	-	Fig. 1	2); 3); 4); 6)
5777720220	25	55	IP65	0.72	Fig. 2	1); 5)
5777725280						
5777725302						
R412003424						
5777955280	-	-	IP65	0.72	Fig. 1	2); 4)
5777760220	25	55	IP65	0.72	Fig. 1	1); 4)
5777765270						
5777765280						
5777765302						
5777945302	-	-	-	-	Fig. 1	2); 3); 4); 6)
5777710220	25	55	IP65	0.72	Fig. 2	1); 5)
5777715280						
5777715302						
5777750220						
5777755280	25	55	IP65	0.72	Fig. 1	1); 4)
5777755302	-	-	-	-	Fig. 1	1); 3); 4); 6)
5777700220	25	55	IP65	0.72	Fig. 2	1); 4)
5777705302	-	-	-	-	Fig. 2	1); 3); 5); 6)

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

4) Seals: Acrylonitrile butadiene rubber

5) Seals: Polyurethane

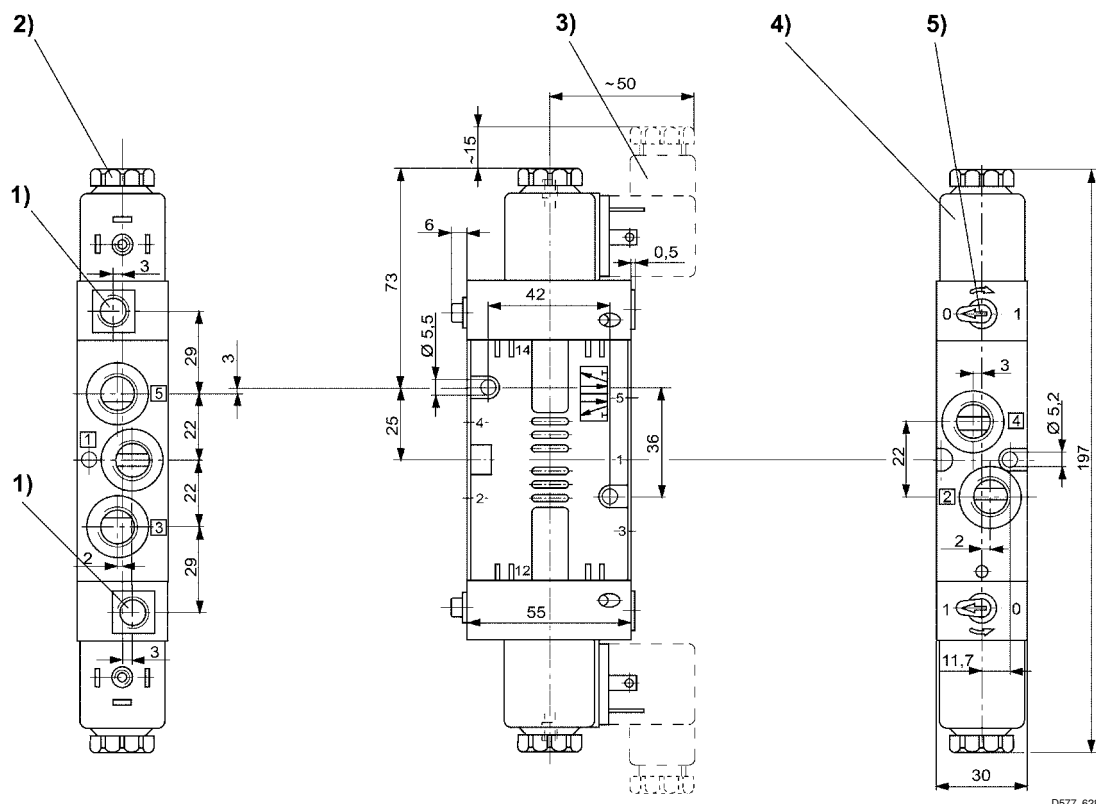
6) ATEX optional

Nominal flow Qn at 6 bar and Δp = 1 bar

5/3-directional valve, Series CD07

- $Q_n = 880 - 1070 \text{ l/min}$ ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: G 1/4
 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid

Fig. 1



D577_628

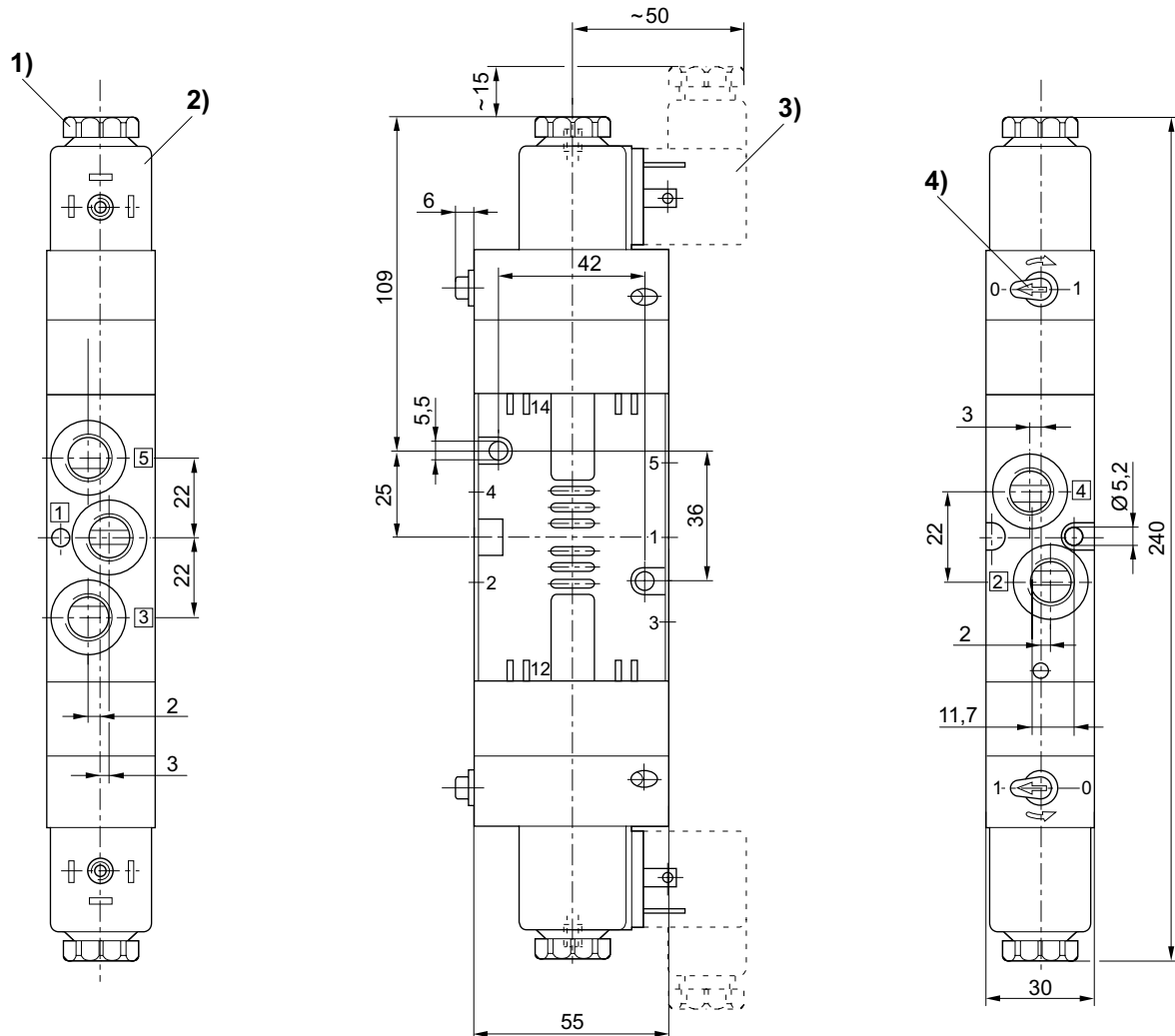
- 1) only with separate pilot control G 1/8 2) after removal of cap M 5 internal thread M5 3) el. connector can be plugged at 90° intervals
 4) coil can be plugged at 45° intervals 5) manual override

Directional valves ▶ Electrically operated

5/3-directional valve, Series CD07

- ▶ $Q_n = 880 - 1070 \text{ l/min}$ ▶ Pilot valve width: 30 mm ▶ pipe connection ▶ Compressed air connection output: G 1/4
- ▶ Electr. connection: Plug, EN 175301-803, form A ▶ Manual override: with detent ▶ double solenoid

Fig. 2



00138175

- 1) after removal of cap M 5 internal thread 2) coil can be plugged at 45° intervals 3) el. connector
4) manual override

5/3-directional valve, Series CD07

► Qn = 900 l/min ► Pilot valve width: 30 mm ► closed center ► pipe connection ► Compressed air connection
output: M14x1,5 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double
solenoid ► Pilot: internal



00134145

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	4 bar / 10 bar
Control pressure min./max.	4 bar / 10 bar
Ambient temperature min./max.	-30 °C / +70 °C
Medium temperature min./max.	-30 °C / +70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Nominal flow Qn	900 l/min
Nominal flow 1 ► 2	900 l/min
Nominal flow 2 ► 3	900 l/min
	with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
	Protected against polarity reversal
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	25 ms
Typ. switch-off time	55 ms
Weight	0.72 kg
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Polyurethane

Technical Remarks

- 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, see chapter „Technical information“.

Operational voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
110 V	-30% / +30%	6

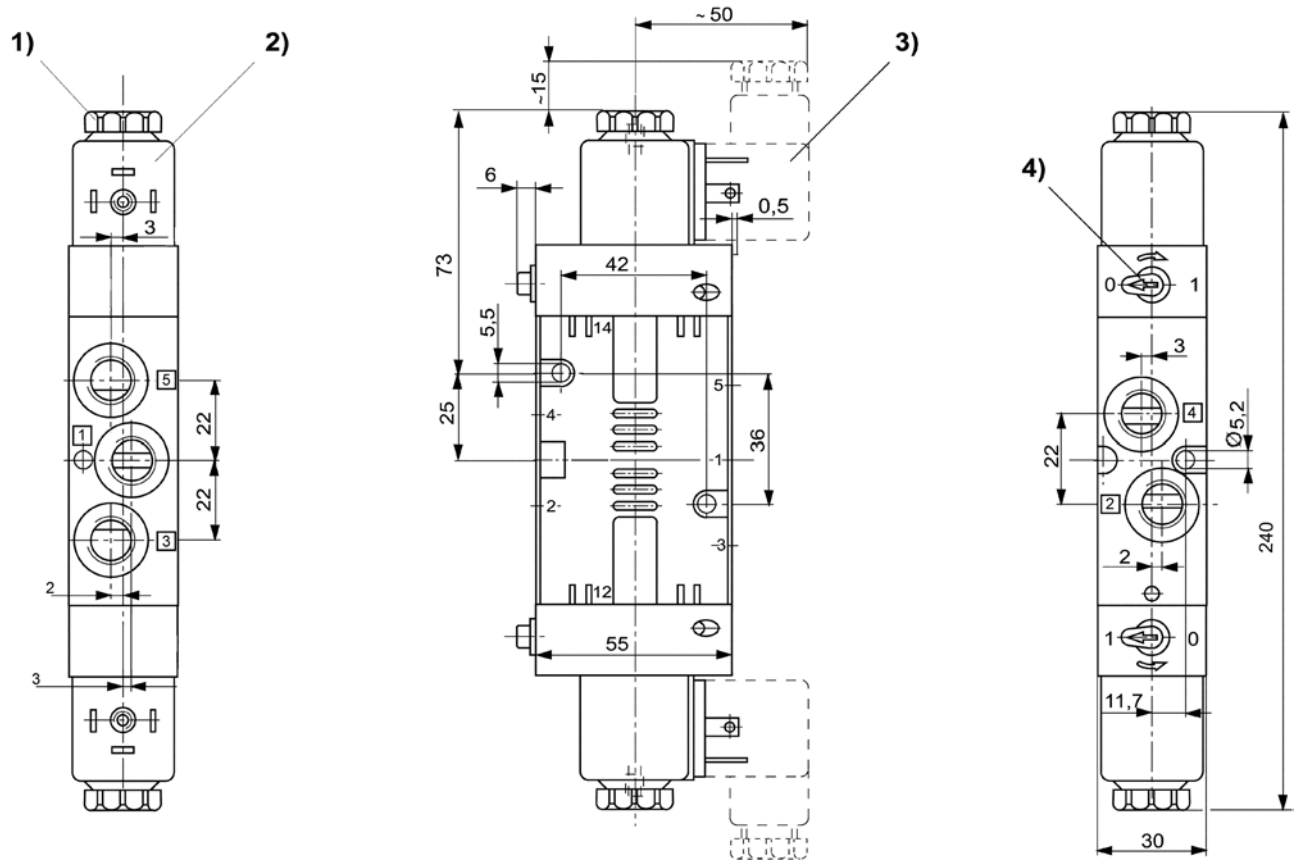
	MO	Compressed air connection				Operating voltage	Power consumption	Part No.
		Input	Output	Exhaust	Pilot Exhaust	DC	DC	
							[W]	
		M14x1,5	M14x1,5	M14x1,5	M5	110 V	6	5776920270
MO = Manual override Nominal flow Qn at 6 bar and Δp = 1 bar								

Directional valves ► Electrically operated

5/3-directional valve, Series CD07

► $Q_n = 900 \text{ l/min}$ ► Pilot valve width: 30 mm ► closed center ► pipe connection ► Compressed air connection output: M14x1,5 ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid ► Pilot: internal

Dimensions



- 1) after removal of cap M 5 internal thread 2) coil can be plugged at 45° intervals 3) el. connector
4) manual override

D577_776

5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: Namur base plate ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► single solenoid ► Pilot: internal



00134146

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Working pressure min./max.	3 bar / 10 bar
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-25 °C / +50 °C
Medium temperature min./max.	-25 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
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 with directional pilot air exhaust EN 175301-803:2006 See table below Protected against polarity reversal
Connector standard	
Protection class with connection	
Compatibility index	13, 14
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Polyamide, fiber-glass reinforced; Die cast zinc
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.
- 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.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1

	MO	Compressed air connection				Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	Namur base plate	G 1/4	M5	24 V	-	-	5776600220
						-	230 V	230 V	5776605280
		G 1/4	Namur base plate	G 1/4	M5	-	-	-	5776605302

Directional valves ► Electrically operated

5/2-directional valve, Series CD07

► $Q_n = 1200 \text{ l/min}$ ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: Namur base plate ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► single solenoid ► Pilot: internal

Part No.	Power consumption	Holding power	Holding power	Switch-on power	Switch-on power	Switch-on time	Switch-off time	Protection class	Weight	Note
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz					
	[W]	[VA]	[VA]	[VA]	[VA]	[ms]	[ms]		[kg]	
5776600220	2.1	-	-	-	-	25	45	IP65	0.6	-
5776605280	-	4.8	4.1	6.9	5.8	-	-	-	-	-
5776605302	-	-	-	-	-	-	-	-	-	1); 2)

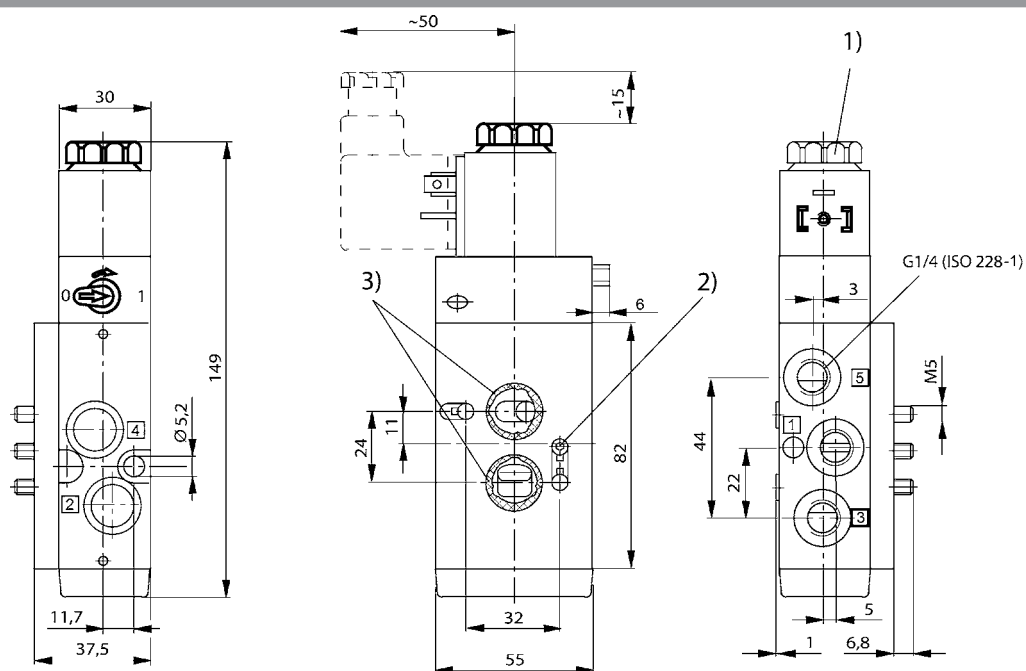
1) Basic valve without coil

2) ATEX optional

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

MO = Manual override

Dimensions



1) after removal of cap M 5 internal thread 2) threaded pin DIN 914 M5 x 20 3) O-ring 16 x 2 (included)

D577_660

5/2-directional valve, Series CD07

► Q_n = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: Namur base plate ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid ► Pilot: internal



00134147

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Working pressure min./max.	2 bar / 10 bar
Control pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-25 °C / +50 °C
Medium temperature min./max.	-25 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Nominal flow Q _n	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 with directional pilot air exhaust EN 175301-803:2006
Connector standard	See table below
Protection class with connection	Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1

	MO	Compressed air connection				Operating voltage			Part No.
		Input	Output	Exhaust	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	
		G 1/4	Namur base plate	G 1/4	M5	24 V	-	-	5776620220
						-	230 V	230 V	5776625280
		G 1/4	Namur base plate	G 1/4	M5	-	-	-	5776625302

Directional valves ► Electrically operated

5/2-directional valve, Series CD07

► Qn = 1200 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: Namur base plate ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid ► Pilot: internal

Part No.	Power consumption	Holding power	Holding power	Switch-on power	Switch-on power	Switch-on time	Switch-off time	Protection class	Weight	Note
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz					
	[W]	[VA]	[VA]	[VA]	[VA]	[ms]	[ms]		[kg]	
5776620220	2.1	-	-	-	-	21	21	IP65	0.8	-
5776625280	-	4.8	4.1	6.9	5.8	-	-	-	-	-
5776625302	-	-	-	-	-	-	-	-	-	1); 2)

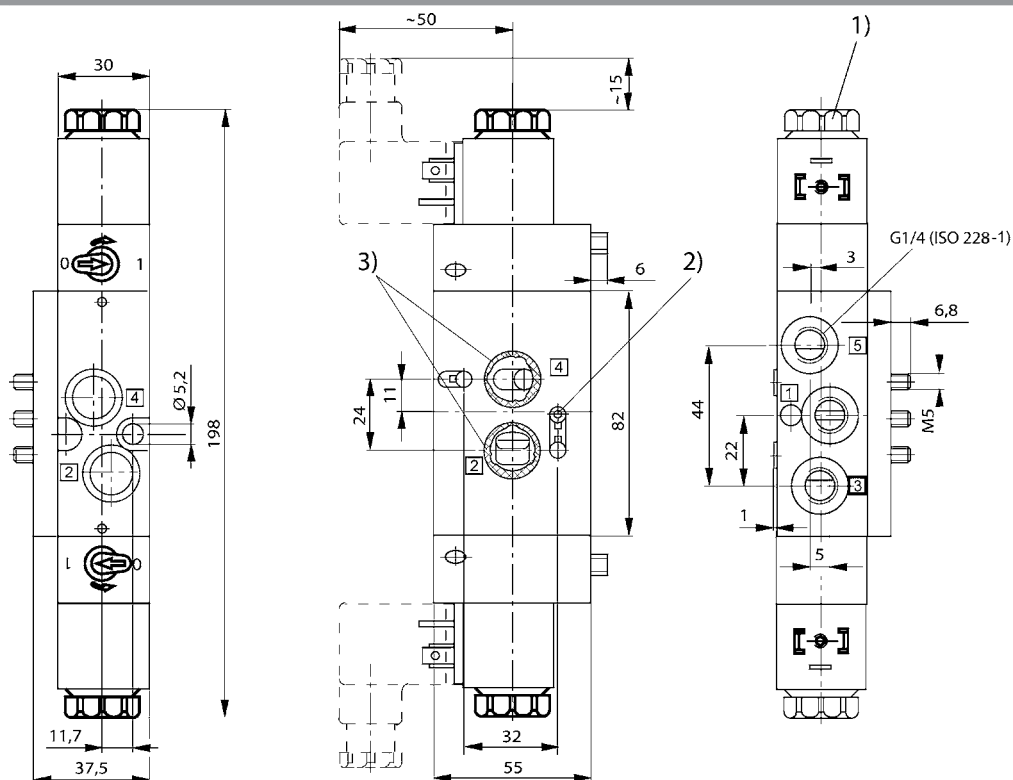
1) Basic valve without coil

2) ATEX optional

Nominal flow Qn at 6 bar and Δp = 1 bar

MO = Manual override

Dimensions



D577_662

1) after removal of cap M 5 internal thread 2) threaded pin DIN 914 M5 x 20 3) O-ring 16 x 2 (included)

5/3-directional valve, Series CD07

► Qn = 880 - 1070 l/min ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output:
 Namur base plate ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double
 solenoid ► Pilot: internal ► ATEX optional



00134418

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Working pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	+0 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Nominal flow Qn	900 l/min
Nominal flow 1 ► 2	See table below
Nominal flow 2 ► 3	See table below
Compressed air connection	according to ISO 228-1 with directional pilot air exhaust EN 175301-803:2006 Protected against polarity reversal
Connector standard	
Compatibility index	13, 14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.

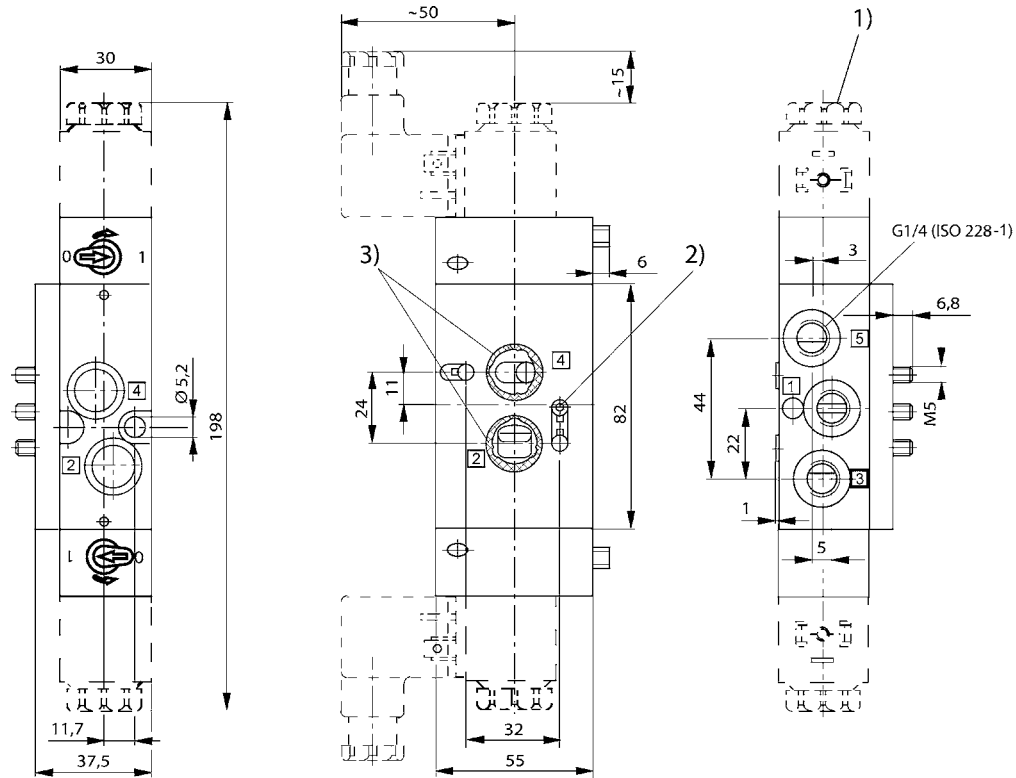
	MO	Compressed air connection				Flow rate value		Part No.
		Input	Output	Exhaust	Pilot Exhaust	Qn 1►2	Qn 2►3	
						[l/min]		
		G 1/4	Namur base plate	G 1/4	M5	1070	950	R412011157
		G 1/4	Namur base plate	G 1/4	M5	1030	880	R412011158
		G 1/4	Namur base plate	G 1/4	M5	960	900	R412011159
Basic valve without coil Nominal flow Qn at 6 bar and Δp = 1 bar MO = Manual override								

Directional valves ► Electrically operated

5/3-directional valve, Series CD07

► $Q_n = 880 - 1070 \text{ l/min}$ ► Pilot valve width: 30 mm ► pipe connection ► Compressed air connection output: Namur base plate ► Electr. connection: Plug, EN 175301-803, form A ► Manual override: with detent ► double solenoid ► Pilot: internal ► ATEX optional

Dimensions



00136328

1) after removal of cap M 5 internal thread 2) threaded pin DIN 914 M5 x 20 3) O-ring 16 x 2 (included)

Series CD07
 Accessories

Electrical connector, Series CN1
 ► 18 mm ► ISO 4400 ► form A


00110264_a

 Ambient temperature min./max.
 Protection class
 Mounting screw tightening torque

 -40°C / +90°C
 IP65
 0.4 Nm

Technical Remarks

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

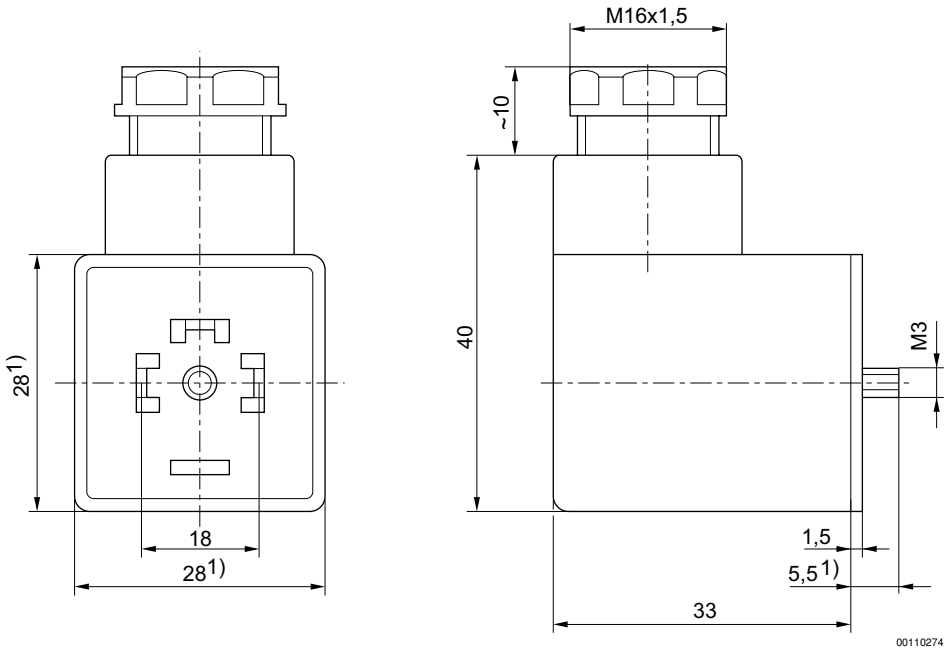
	Cable fitting	Operational voltage	Contact assignment	Cable exit	Protective circuit	suitable cable-Ø min./max	Part No.
		AC					
		[V]				[mm]	
	M16x1,5	24	2+E	angled 90°	Z-diode	6 / 8	1834484101
	M16x1,5	110 230	2+E	angled 90°	Varistor	6 / 8	1834484102 1834484103

Part No.	number of plug options 1	Status display	LED status display	Housing color	Weight	Note
					[kg]	
1834484101	4 positions each 90°	1 LED	Yellow	Transparent	0.03	3); 4)
1834484102 1834484103	4 positions each 90°	2 LED	Red	Transparent	0.03	2); 5); 5) 2); 4)

- 1) electrical connector with status display (2 LED) for pressure sensor
- 2) Profile seal
- 3) Flat gasket
- 4) Seal: Silicone caoutchouc
- 5) Seal: caoutchouc/butadiene caoutchouc

Series CD07
Accessories

Dimensions



Connector with cable, Series CN1
▶ form A ▶ 18 mm

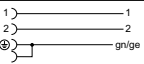


00110292_b

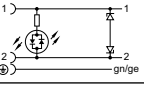
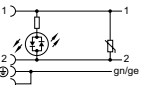
Ambient temperature min./max.	-20°C / +80°C
Protection class	IP67
Tightening torque for mounting screws	0.4 Nm

Technical Remarks

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

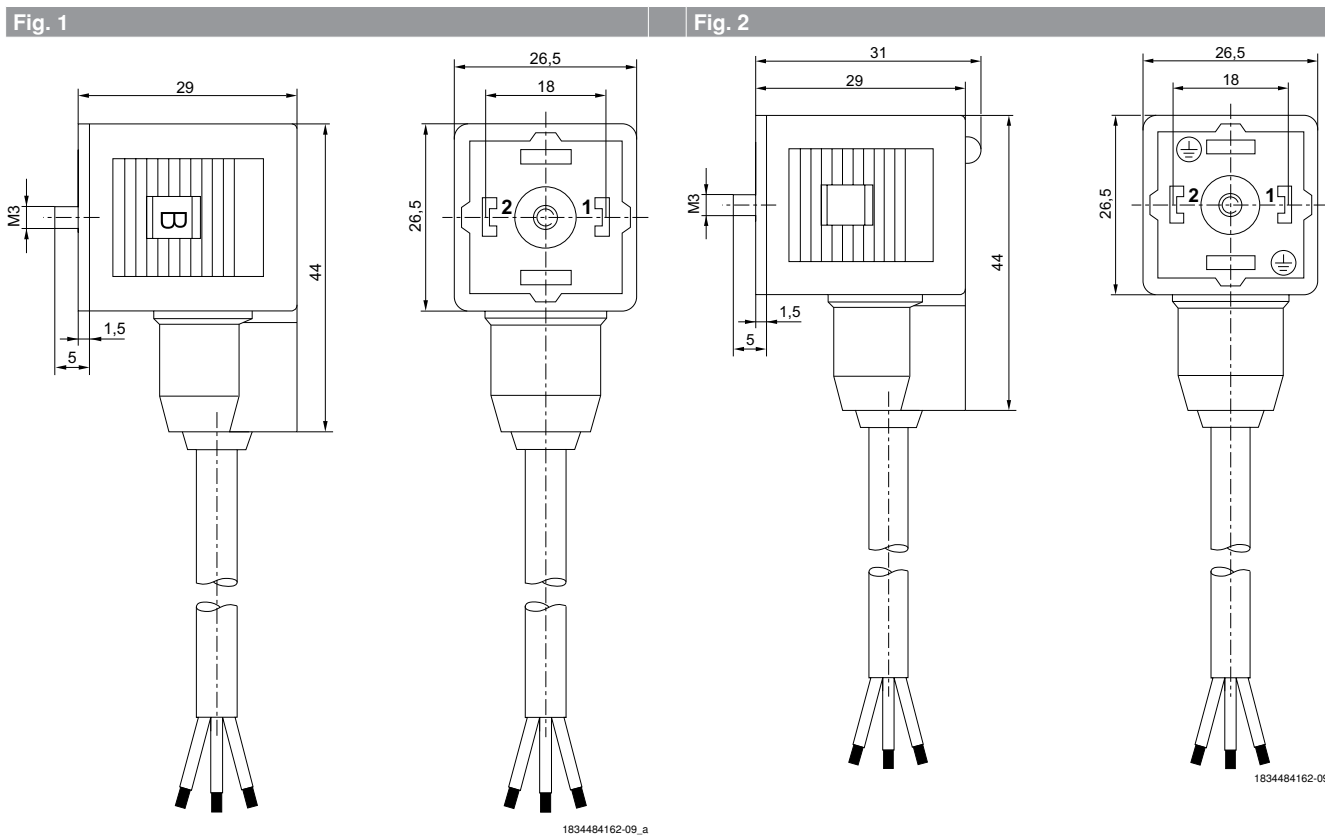
	Operational voltage max.		Protective circuit	Contact assignment	LED status display	Wire cross-section	Cable length L	Weight	Part No.
	[V AC]	[V DC]				[mm²]	[m]	[kg]	
	230	230	-	2+E	-	0.75	3	0.2	1834484160

Series CD07
Accessories

	Operational voltage max.		Protective circuit	Contact assignment	LED status display	Wire cross-section	Cable length L	Weight	Part No.
	[V AC]	[V DC]							
	24	-	Z-diode	2+E	Yellow	0.75	3	0.2	1834484162
							5	0.31	1834484163
	230	230	Varistor	2+E	Red	0.75	3	0.2	1834484164
							5	0.31	1834484165

Part No.	Fig.	Note
1834484160	Fig. 1	1)
1834484162 1834484163	Fig. 2	-
1834484164 1834484165	Fig. 2	-

1) Scope of delivery incl. flat gasket



Directional valves ► Electrically operated

Series CD07 Accessories

Coil, Series CO1

► with electrical connector ► Coil width 30 mm ► ATEX certified



ATEX

Ambient temperature min./max.

Protection class

Duty cycle ED

Compatibility index CI

II 3G Ex nAc IIB T4

II 3D Ex tc IIB T125°C IP65X

-10°C / +50°C

IP65

100 %

13

00138109

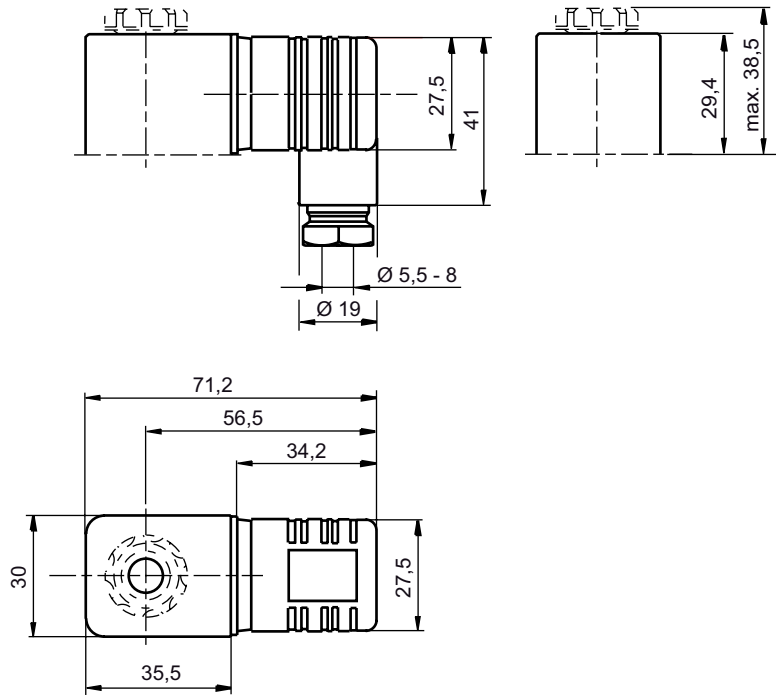
Operational voltage			Voltage tolerance			Power consumption	Switch-on power	Holding power
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 50 Hz
						W	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	4	4
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	4	4
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	4.1	4.1

	Operational voltage			Weight	Part No.
	AC 50 Hz	DC	AC 60 Hz		
				[kg]	
	-	24 V	-	0.14	R412000144
	24 V	-	24 V	0.134	R412000145
	110 V	-	110 V	0.122	R412000146
	230 V	-	230 V	0.137	R412000147

Series CD07

Accessories

Dimensions



00129941

Coil, Series CO1

▶ Cable with connector ▶ Coil width 30 mm ▶ ATEX certified



00115846

ATEX	II 2G Ex mb IIC T4 Gb
Ambient temperature min./max.	II 2D Ex mb tb IIIC T 130°C Db IP65
Protection class	-20°C / +50°C
Duty cycle ED	IP65
Compatibility index CI	100 %
	14

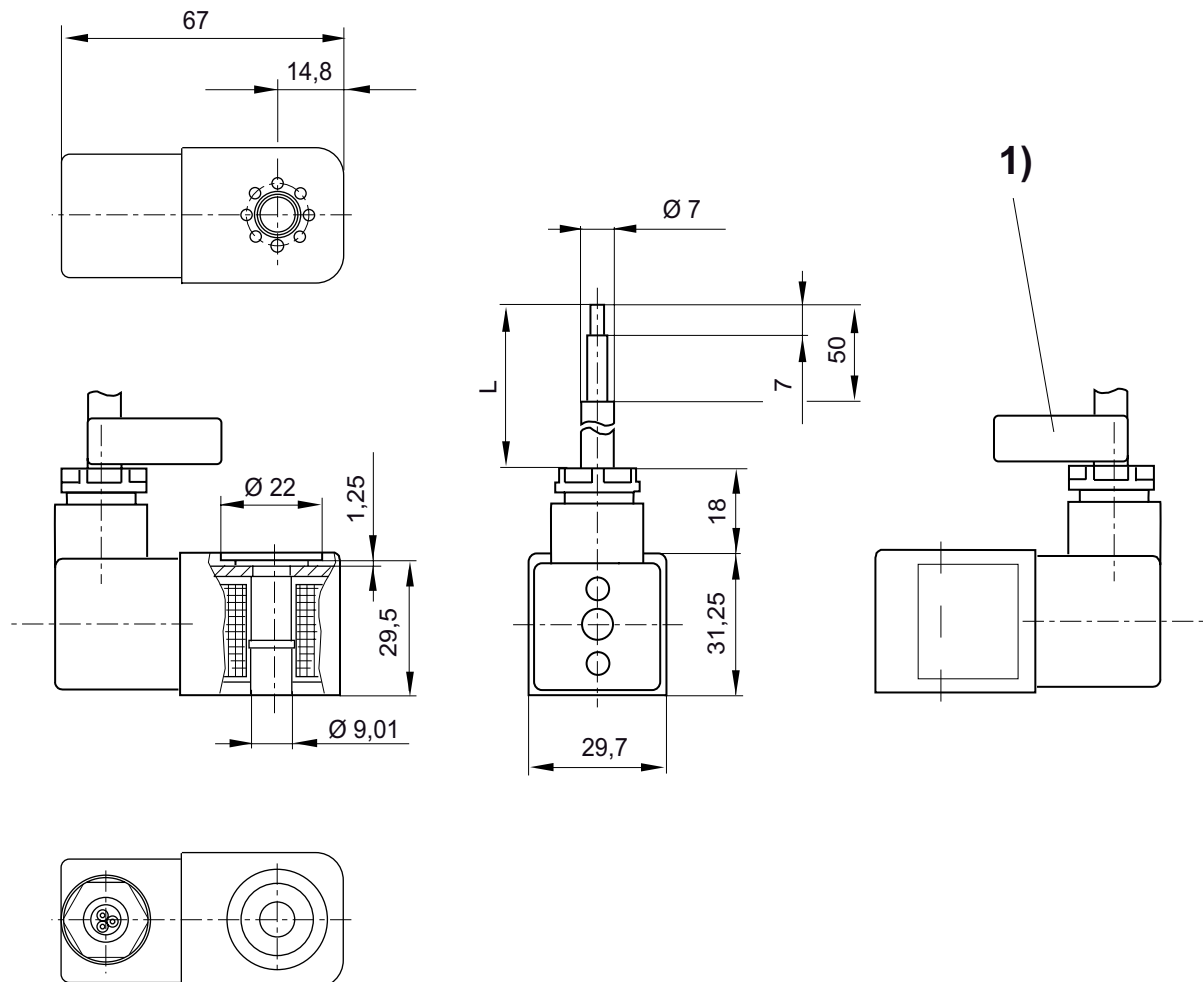
Operational voltage			Voltage tolerance		Power consumption	Switch-on power	Holding power
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz
					W	VA	VA
-	230 V	230 V	-	-10% / +10%	-	3.1	3
-	110 V	110 V	-	-10% / +10%	-	3	2.9
-	24 V	24 V	-	-10% / +10%	-	3	2.9
24 V	-	-	-10% / +10%	-	3.25	-	-

Directional valves ► Electrically operated

Series CD07 Accessories

	Operational voltage			Cable length L	Weight	Part No.
	AC 50 Hz	DC	AC 60 Hz			
				[m]	[kg]	
	230 V	-	230 V	3	0.38	1827414297
	230 V	-	230 V	10	0.91	1827414298
	110 V	-	110 V	3	0.38	1827414299
	24 V	-	24 V	3	0.38	1827414301
	24 V	-	24 V	10	0.91	1827414302
	-	24 V	-	3	0.38	1827414303
	-	24 V	-	10	0.91	1827414304
	110 V	-	110 V	10	0.38	1827414300

Dimensions



L = cable length

1) Cable ID band with serial number

00129906

Series CD07
Accessories
Coil, Series CO1
► form A ► Coil width 30 mm


00135727

Connector standard
 electrical connections
 Ambient temperature min./max.
 Protection class with electrical connector/plug
 Duty cycle ED

EN 175301-803, form A
 Plug
 -- / +50°C
 IP65
 100 %

Materials:
 Housing

Thermoplastic elastomer

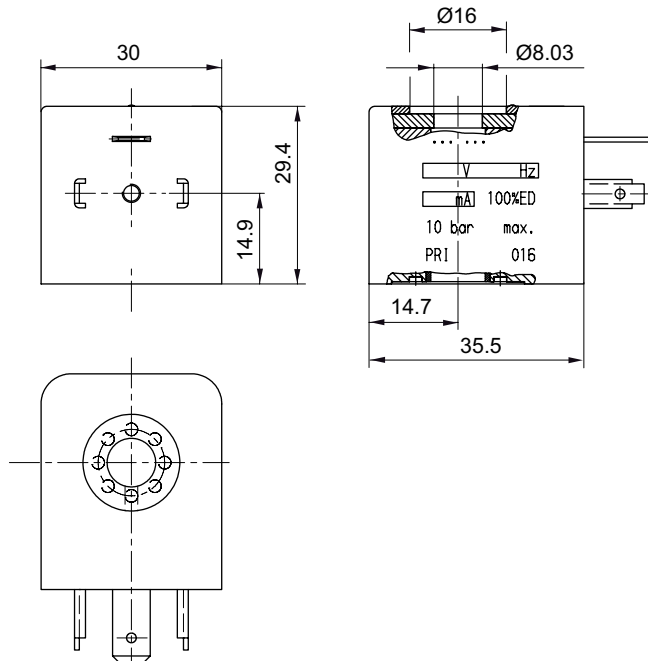
Operational voltage			Voltage tolerance			Power consumption	Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
						W	VA	VA
24 V	-	-	-10% / +10%	-	-	2.7	-	-
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	5.2	3.9
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	4.8	3.6
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	5.6	4.2

	Operational voltage			Compatibility index	Weight	Part No.
	AC 50 Hz	DC	AC 60 Hz			
					[kg]	
	-	24 V	-	14	0.096	5420897022
	24 V	-	24 V			5428117022
	110 V	-	110 V			5428117072
	230 V	-	230 V			5428117082

Directional valves ► Electrically operated

Series CD07 Accessories

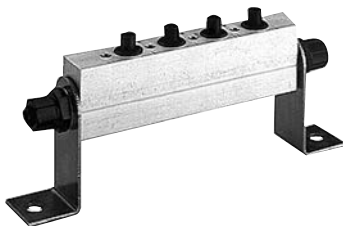
Dimensions



00135722

P-manifold

► for Series CD07, 5/2 and 5/3-directional valves



3337-121

Ambient temperature min./max.
Medium temperature min./max.
Medium
Working pressure min./max.
Exhaust (3,5)
Compressed air connection

Materials:
Base plate
Seals
Mounting bracket

-25 °C / +80 °C
-25 °C / +80 °C
Compressed air
-0.95 bar / 16 bar
uncollected exhaust
according to ISO 228-1

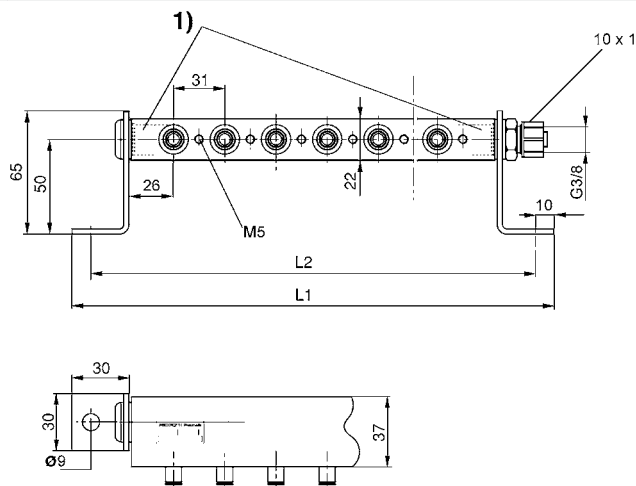
Aluminum; Polyoxymethylene
Acrylonitrile butadiene rubber
Steel

Technical Remarks

- 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, see chapter „Technical information“.

Series CD07
 Accessories

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

Dimensions


D333_711

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

Part No.	L1	L2	Weight kg									
3337120222	152	132	0.277									
3337120232	183	163	0.338									
3337120242	214	194	0.401									
3337120252	245	225	0.462									
3337120262	276	256	0.52									
3337120272	307	287	0.595									
3337120282	338	318	0.64									
3337120292	369	349	0.705									
3337120302	400	380	0.773									
3337120312	431	411	0.82									
3337120322	462	442	0.914									

Directional valves ► Electrically operated

Series CD07 Accessories

R, P, S subbase, Series CD07



23316

Ambient temperature min./max.	-25 °C / +80 °C
Medium temperature min./max.	-25 °C / +80 °C
Medium	Compressed air
Working pressure min./max.	-0.95 bar / 16 bar
Exhaust (3,5)	With directional exhaust (3/5)
	Ports separated
Compressed air connection	according to ISO 228-1
Materials:	
Base plate	Aluminum; Polyoxymethylene
Seals	Acrylonitrile butadiene rubber

Technical Remarks

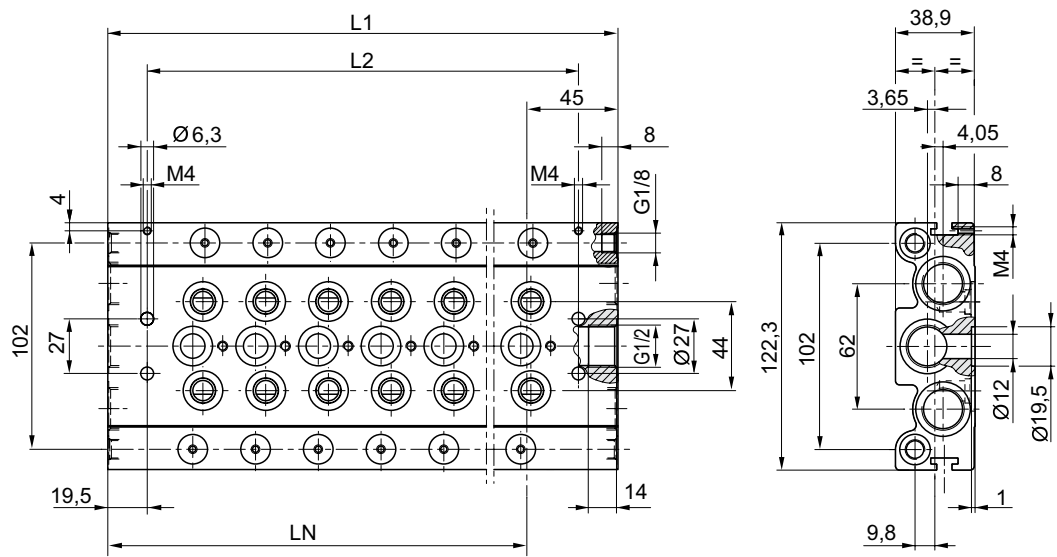
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

Compressed air connection			Number of valve positions	Weight	Part No.
Input	Exhaust	Pilot connection			
[1]	[3 / 5]	[14]		[kg]	
G 1/2	G 1/2	G 1/8	4	1.45	8985072042
			6	1.94	8985072062
			8	2.42	8985072082
			10	2.94	8985072102
			12	3.4	8985072122

Series CD07

Accessories

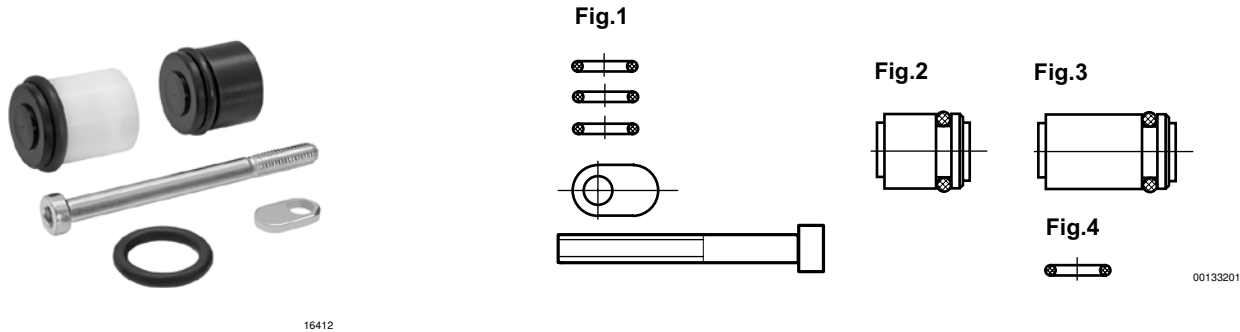
Dimensions



00138184

Part No.	L1	L2	LN	Weight kg								
8985072042	183	144	138	1.45								
8985072062	245	206	200	1.94								
8985072082	307	268	262	2.42								
8985072102	369	330	324	2.94								
8985072122	431	392	386	3.4								

Accessories, Series CD07



Directional valves ► Electrically operated

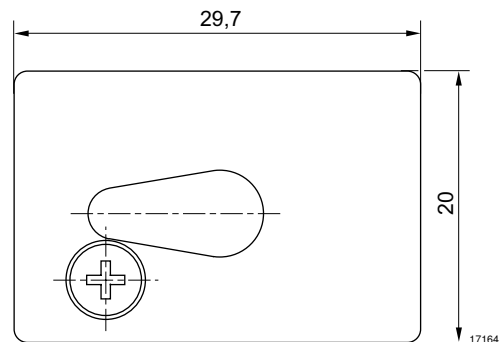
Series CD07 Accessories

Part No.	Type	Weight [kg]	Order quantity [Piece]	Fig.					
3354600002	Mounting kit for 10 valves, delivery includes: 30 seals, 10 washers, and 10 mounting screws.	0.125	1	Fig. 1					
3354600082	P plug	0.022	1	Fig. 2					
3354600072	R/S plug	0.023	1	Fig. 3					
8970810404	Seal for external pilot	0.001	1	Fig. 4					

Kit, Series CD07 ► for manual override



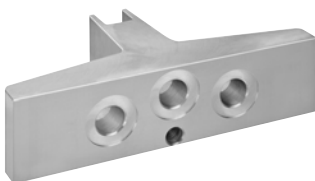
17165



Scope of delivery incl. 1 tapping screw with countersunk head

Part No.	Weight [kg]	Order quantity [Piece]										
5420900002	0.004	1										

Blanking plate, for series CD07



16413

Ambient temperature min./max.
Medium temperature min./max.
Medium
Working pressure min./max.
Number of valve positions

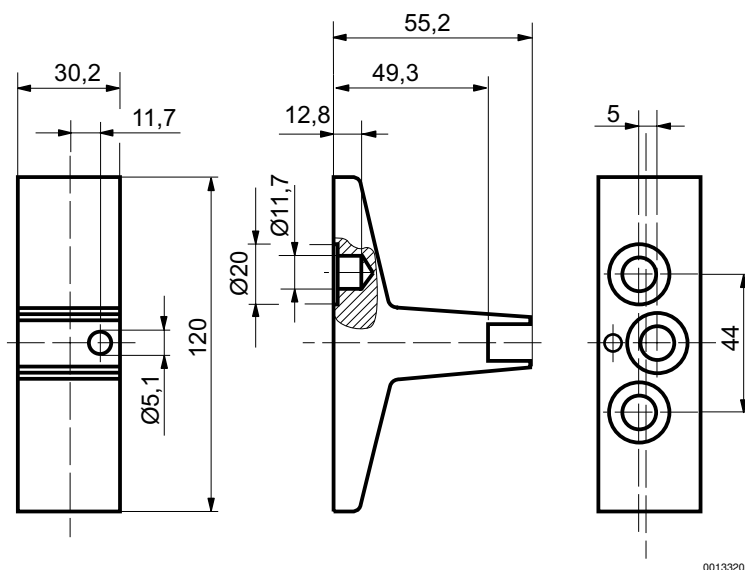
-25 °C / +80 °C
-25 °C / +80 °C
Compressed air
-0.95 bar / 16 bar
1

Materials:
Base plate
Seals

Aluminum
Acrylonitrile butadiene rubber

Series CD07
 Accessories

Weight	Part No.
[kg]	
0.181	3354601024

Dimensions


00133203

Silencers, Series SI1

► Sintered bronze



P100_060

 Working pressure min./max.
 Ambient temperature min./max.
 Medium

 0 bar / 10 bar
 -25 °C / +80 °C
 Compressed air

 Materials:
 Silencers
 Thread

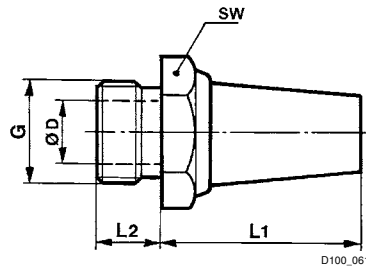
 Sintered bronze
 Brass

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[l/min]	[piece]	[kg]	
G 1/4	79	2900	10	0.02	1827000001
	-	-		0.013	R412004817
M14x1,5	80	-	1	0.018	5324001120

Directional valves ► Electrically operated

Series CD07 Accessories

Dimensions



Part No.	Port G	SW	Ø D	L1	L2							
1827000001	G 1/4	17	8.5	25	8							
R412004817	G 1/4	16	8.5	18.7	7.6							
5324001120	M14x1,5	17	8.5	25	8							

Sound pressure level measured at 6 bar at 1 m distance

Silencers, Series SI1 ► Sintered bronze



00128791

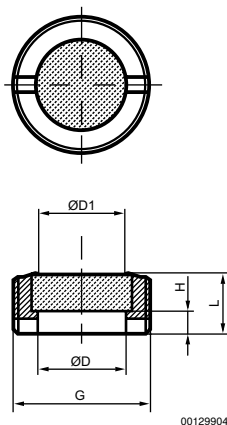
Working pressure min./max.
Ambient temperature min./max.
Medium

0 bar / 10 bar
-25°C / +80°C
Compressed air

Materials:
Silencers
Thread

Sintered bronze
Brass

Compressed air connection	Order quantity	Part No.
	[piece]	
G 1/4	10	R414000155

Series CD07
Accessories
Dimensions


Part No.	Port G	Ø D	Ø D1	H	L							
R414000155	G 1/4	8	6	3	6							

Silencers, Series SI1
► Sintered bronze


P100_037

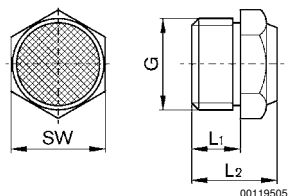
Working pressure min./max.
 Ambient temperature min./max.
 Medium

0 bar / 10 bar
 -25°C / +80°C
 Compressed air

Materials:
 Silencers
 Thread

Sintered bronze
 Brass

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[l/min]	[piece]	[kg]	
G 1/4	88	900	10	0.01	1827000033

Dimensions


Directional valves ► Electrically operated

Series CD07 Accessories

Part No.	Port G	L1	L2	SW								
1827000033	G 1/4	8	13.5	17								
Sound pressure level measured at 6 bar at 1 m distance												

Silencers, Series SI1 ► Polyethylene



P100_064

Working pressure min./max.
Ambient temperature min./max.
Medium

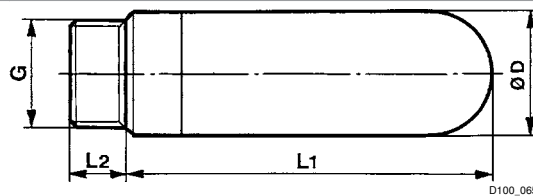
0 bar / 10 bar
-25°C / +80°C
Compressed air

Materials:
Silencers
Thread

Polyethylene
Polyethylene

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[l/min]	[piece]	[kg]	
G 1/4	80	3100	5	0.003	1827000020

Dimensions



D100_065

Part No.	Port G	Ø D	L1	L2								
1827000020	G 1/4	15.5	34.5	8								
Sound pressure level measured at 6 bar at 1 m distance												

Adapter for contact bridges



P894_605

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

Series CD07
Accessories

Part No.	Type	Protection class	Interface 1	Interface 2	Max. current [A]	Ambient temperature min./max.	Material
8946053622	from form A to form C	IP65	Electrical connector Form A	electrical connector form C	5	-25 / +50	Polyamide

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08-03-2017

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