

Directional valves → Electrically operated
Series CD04

Brochure



Directional valves → Electrically operated

Series CD04**Valves, compressed air connection G1/8**

3/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent, without ► single solenoid

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3/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: M10x1 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

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5/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

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5/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: M10x1 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

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5/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

14

5/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: M10x1 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

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5/3-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

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3/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent

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5/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

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5/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

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Directional valves → Electrically operated

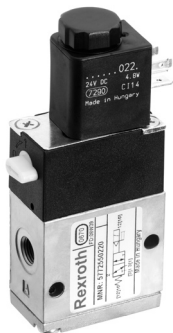
Series CD04

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3/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent, without ► single solenoid



00134133

Version	Spool valve, zero overlap
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 mg/m³ - 1 mg/m³
Compressed air connection	according to ISO 228-1 with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks										
<ul style="list-style-type: none"> ■ 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 air pressure must remain constant during the life cycle. ■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“. ■ 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. 										

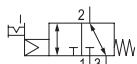

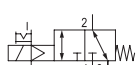

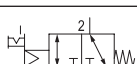

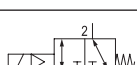
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	10.8	9.5	8.3	7.2
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	11.5	9.7	9	7.4
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	10.8	9.4	8.3	6.7
24 V	-	-	-10% / +10%	-	-	8.4	-	-	-	-

		MO	Compressed air connection					Operating voltage			Flow rate value	Part No.
			Input	Output	Exhaust	Pilot connection	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	
											[l/min]	
	NC, NO		G 1/8	G 1/8	G 1/8	-	M5	24 V	-	-	900	5772550220
								-	110 V	110 V		5772555270
								-	230 V	230 V		5772555280
								-	24 V	24 V		5772555220

Directional valves → Electrically operated

3/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent, without ► single solenoid

		MO	Compressed air connection					Operating voltage			Flow rate value	Part No.
			Input	Output	Exhaust	Pilot connection	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	
											[l/min]	
	NC, NO		G 1/8	G 1/8	G 1/8	-	M5	-	-	-	900	5772555302
	NC, NO		G 1/8	G 1/8	G 1/8	G 1/8	M5	24 V - -	- 110 V 230 V	- 110 V 230 V	900	5772560220 5772565270 5772565280
	NC, NO		G 1/8	G 1/8	G 1/8	G 1/8	M5	-	-	-	900	5772565302
	NC, NO	-	G 1/8	G 1/8	G 1/8	-	M5	24 V	-	-	900	5772590220
Part No.	Flow rate value	Flow rate value	Working pressure min./max.	Control pressure min./max.	Ambient temperature min./max.	Medium temperature min./max.	Switch-on time	Switch-off time	Weight	Note		
	Qn 1►2	Qn 2►3										
	[l/min]	[l/min]	[bar]	[bar]	[°C]	[°C]	[ms]	[ms]	[kg]			
5772550220 5772555270 5772555280 5772555220	900	900	3 / 10	3 / 10	-15°C / +50°C	-15°C / +50°C	13	27	0.3	1)		
5772555302	900	900	3 / 10	3 / 10	-15°C / +50°C	-15°C / +50°C	-	-	0.25	1); 3)		
5772560220 5772565270 5772565280	900	900	-0.95 / 10	3 / 10	-15°C / +50°C	-15°C / +50°C	13	27	0.3	2)		
5772565302	900	900	-0.95 / 10	3 / 10	-15°C / +50°C	-15°C / +50°C	-	-	0.25	2); 3)		
5772590220	900	900	2.6 / 10	2.6 / 10	-20°C / +80°C	-20°C / +80°C	13	27	0.3	1); 4)		

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

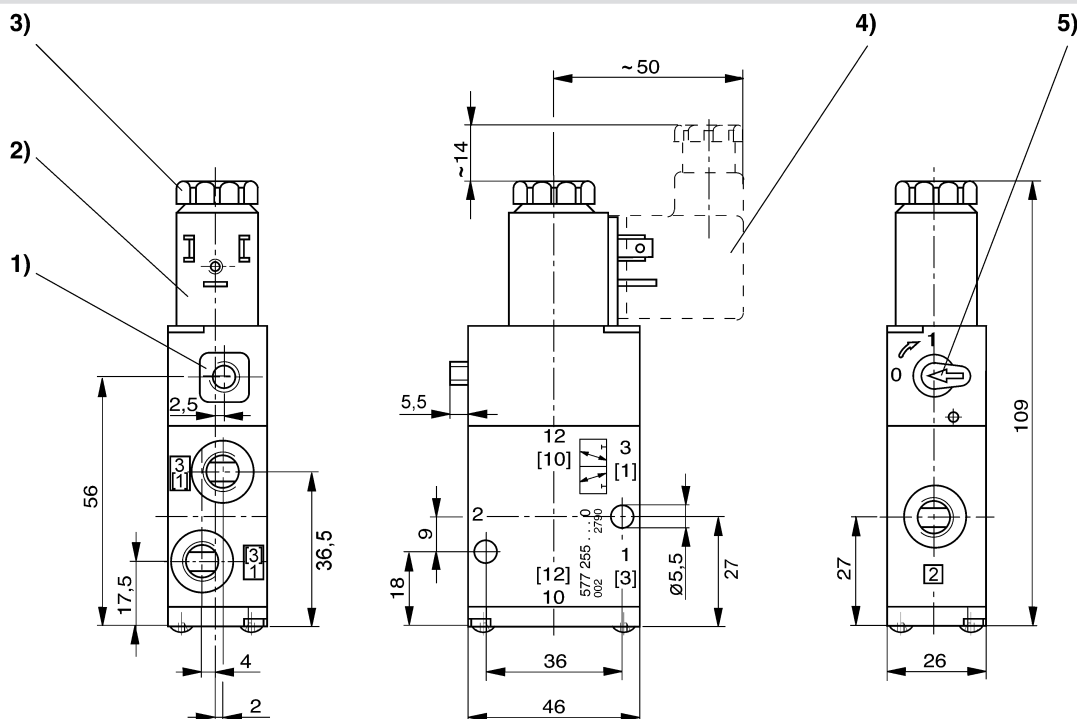
4) Higher power consumption

Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

3/2-way valve, Series CD04

► $Q_n = 900 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent, without ► single solenoid

Dimensions

D577_255

- 1) only with separate pilot control G 1/8
- 2) coil can be rotated at 90° intervals
- 3) after removal of cap M 5 internal thread M5
- 4) electrical connector can be plugged at 180° intervals
- 5) manual override

Directional valves → Electrically operated

3/2-way valve, Series CD04

► $Q_n = 900 \text{ l/min}$ ► pipe connection ► compressed air connection output: M10x1 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid



00134133

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.	-15°C / +50°C
Medium temperature min./max.	-15°C / +50°C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³ with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- 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.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	4.8

		MO	Compressed air connection				Operating voltage	Flow rate value			Part No.
			Input	Output	Exhaust	Pilot control exhaust	DC	Qn	Qn 1►2	Qn 2►3	
								[l/min]			
	NC, NO		M10x1	M10x1	M10x1	M5	24 V	900	900	900	5772500220
	NC, NO		M10x1	M10x1	M10x1	M5	-	900	900	900	5772505302

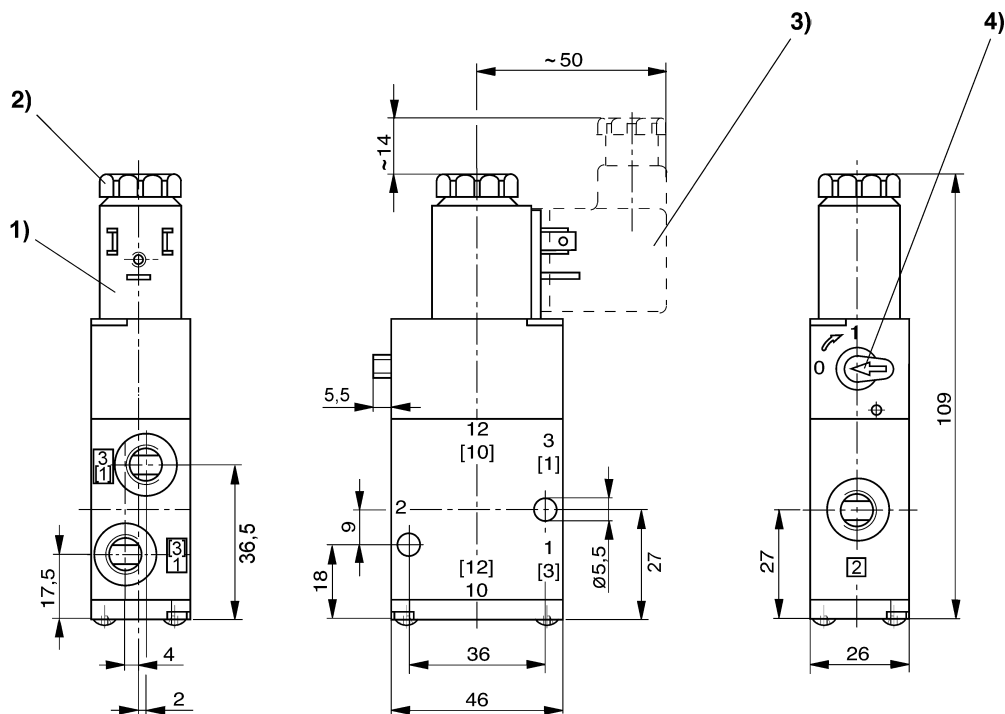
Directional valves → Electrically operated

3/2-way valve, Series CD04
 ► Qn = 900 l/min ► pipe connection ► compressed air connection output: M10x1 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

Part No.	Switch-on time	Switch-off time	Weight	Note
	[ms]	[ms]	[kg]	
5772500220	13	27	0.3	-
5772505302	-	-	0.25	1)

MO = Manual override
 1) Basic valve without coil
 Pilot: internal
 Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions



00134420

- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid



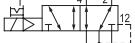

00134134

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Compressed air connection	according to ISO 228-1 with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

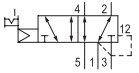

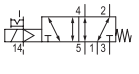

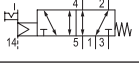

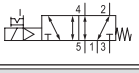

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	4.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	10.8	9.5	8.3	7.2
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	11.5	9.7	9	7.4
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	10.8	9.4	8.3	6.7

	MO	Compressed air connection					Operating voltage			Flow rate value		Part No.
		Input	Output	Exhaust	Pilot connection	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	
										[l/min]		
		G 1/8	G 1/8	G 1/8	-	M5	12 V	-	-	900	900	5777050210
							24 V	-	-			5777050220
							-	110 V	110 V			5777055270
							-	230 V	230 V			5777055280
							-	24 V	24 V			5777055220

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

	MO	Compressed air connection					Operating voltage			Flow rate value		Part No.
		Input	Output	Exhaust	Pilot connection	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	
										[l/min]		
		G 1/8	G 1/8	G 1/8	-	M5	-	-	-	900	900	5777055302
		G 1/8	G 1/8	G 1/8	G 1/8	M5	24 V - - -	- 110 V 230 V 24 V	- 110 V 230 V 24 V	900	900	5777060220 5777065270 5777065280 5777065220
		G 1/8	G 1/8	G 1/8	G 1/8	M5	-	-	-	900	900	5777065302
		G 1/8	G 1/8	G 1/8	-	M5	24 V -	- 110 V	- 110 V	900	900	5777150220 5777155270
Part No.	Flow rate value	Working pressure min./max.		Switch-on time		Switch-off time		Weight		Note		
	Qn 2►3											
	[l/min]	[bar]		[ms]		[ms]		[kg]				
5777050210 5777050220 5777055270 5777055280 5777055220	900	3 / 10		12		21		0.39		1)		
5777055302	900	3 / 10		-		-		0.34		1); 3)		
5777060220 5777065270 5777065280 5777065220	900	-0.95 / 10		12		21		0.39		2)		
5777065302	900	-0.95 / 10		-		-		0.34		2); 3)		
5777150220 5777155270	900	3 / 10		12		21		0.39		1)		

MO = Manual override

1) Pilot: internal

2) Pilot: external

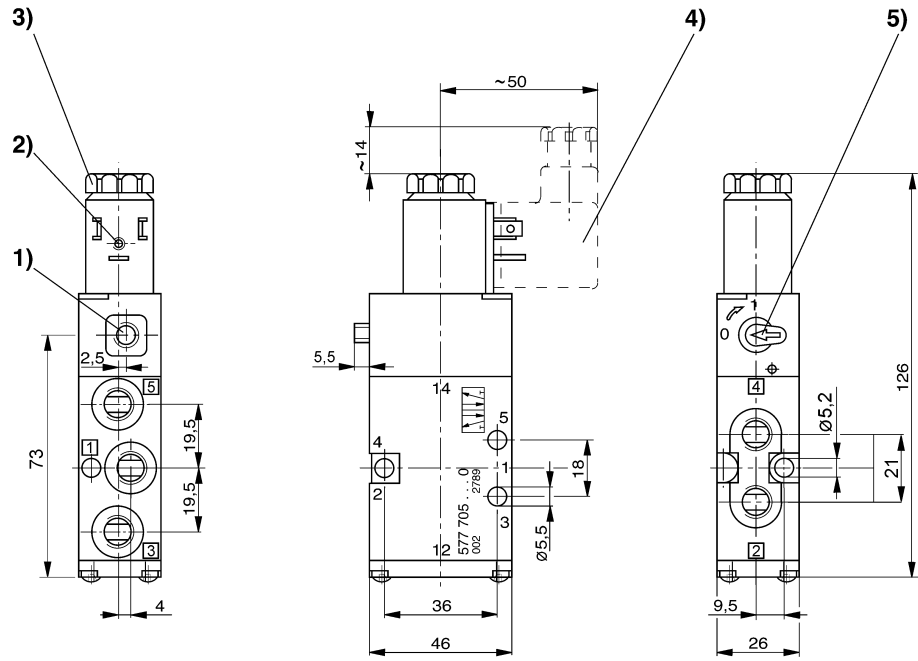
3) Basic valve without coil

Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

5/2-way valve, Series CD04

► $Q_n = 900 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

Dimensions

D577_705

- 1) only with separate pilot control G 1/8
- 2) coil can be rotated at 90° intervals
- 3) after removal of cap M 5 internal thread M5
- 4) electrical connector can be plugged at 180° intervals
- 5) manual override

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: M10x1 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid



00134134

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	3 bar / 10 bar
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-15°C / +50°C
Medium temperature min./max.	-15°C / +50°C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³ with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks										
<div> <div>■</div> The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C. </div> <div> <div>■</div> The oil content of air pressure must remain constant during the life cycle. </div> <div> <div>■</div> Use only the approved oils from Bosch Rexroth, see chapter „Technical information“. </div>										

Operating 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%	-	-	4.8	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	11.5	9.7	9	7.4

	MO	Compressed air connection				Operating voltage			Flow rate value			Part No.
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	Qn 2►3	
									[l/min]			
		M10x1	M10x1	M10x1	M5	24 V	-	-	900	900	900	5777000220
						-	230 V	230 V				5777005280
		M10x1	M10x1	M10x1	M5	-	-	-	900	900	900	5777005302

Directional valves → Electrically operated

5/2-way valve, Series CD04

► $Q_n = 900 \text{ l/min}$ ► pipe connection ► compressed air connection output: M10x1 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

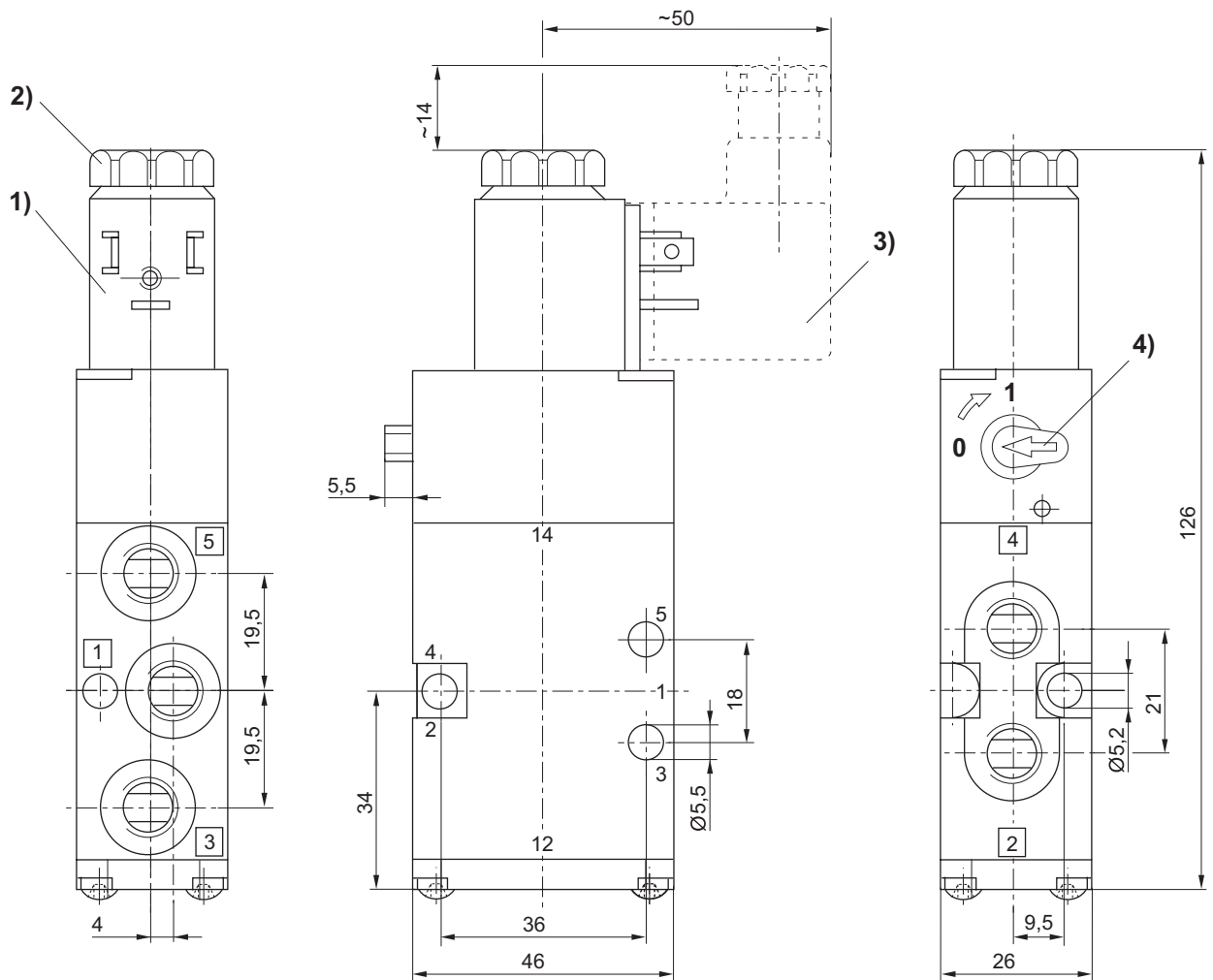
Part No.	Switch-on time	Switch-off time	Weight	Note
	[ms]	[ms]	[kg]	
5777000220	12	21	0.39	-
5777005280				
5777005302	-	-	0.36	1)

MO = Manual override

1) Basic valve without coil

Pilot: internal

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

Dimensions

- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid





00134135

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Compressed air connection	according to ISO 228-1 with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

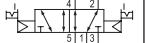

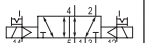

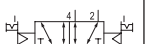

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	4.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	10.8	9.4	8.3	6.7
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	10.8	9.5	8.3	7.2
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	11.5	9.7	9	7.4

	MO	Compressed air connection					Operating voltage			Flow rate value		Part No.
		Input	Output	Exhaust	Pilot connection	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	
										[l/min]		
		G 1/8	G 1/8	G 1/8	-	M5	12 V	-	-	900	900	R412008841
							24 V	-	-			5777250220
							-	24 V	24 V			5777255220
							-	110 V	110 V			5777255270
							-	230 V	230 V			5777255280

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

	MO	Compressed air connection					Operating voltage			Flow rate value		Part No.
		Input	Output	Exhaust	Pilot connection	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	
										[l/min]		
		G 1/8	G 1/8	G 1/8	-	M5	-	-	-	900	900	5777255302
		G 1/8	G 1/8	G 1/8	G 1/8	M5	24 V -	- 230 V	- 230 V	900	900	5777260220 5777265280
		G 1/8	G 1/8	G 1/8	G 1/8	M5	-	-	-	900	900	5777265302
Part No.	Flow rate value	Working pressure min./max.		Switch-on time		Switch-off time		Weight		Note		
	Qn 2►3											
	[l/min]	[bar]		[ms]		[ms]		[kg]				
R412008841 5777250220 5777255220 5777255270 5777255280	900	2 / 10		12		12		0.49		1)		
5777255302	900	2 / 10		-		-		0.36		1); 3)		
5777260220 5777265280	900	-0.95 / 10		12		12		0.5		2)		
5777265302	900	-0.95 / 10		-		-		0.36		2); 3)		

MO = Manual override

1) Pilot: internal

2) Pilot: external

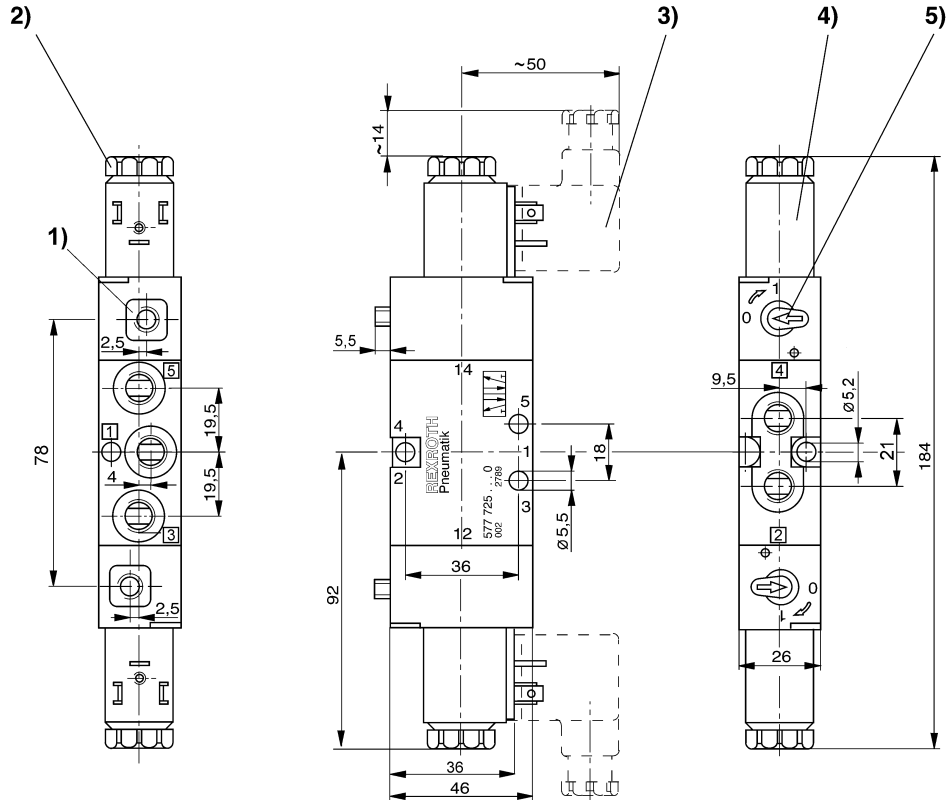
3) Basic valve without coil

Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

5/2-way valve, Series CD04

► $Q_n = 900 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

Dimensions

D577_725

- 1) only with separate pilot control G 1/8
- 2) after removal of cap M 5 internal thread
- 3) electrical connector can be plugged at 180° intervals
- 4) coil can be rotated at 90° intervals
- 5) manual override

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: M10x1 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid



00134135

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	2 bar / 10 bar
Control pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³ with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating 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%	-	-	4.8	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	11.5	9.7	9	7.4

	MO	Compressed air connection				Operating voltage			Flow rate value			Part No.
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	Qn 2►3	
									[l/min]			
		M10x1	M10x1	M10x1	M5	24 V	-	-	900	900	900	5777200220
						-	230 V	230 V				5777205280
		M10x1	M10x1	M10x1	M5	-	-	-	900	900	900	5777205302

Directional valves → Electrically operated

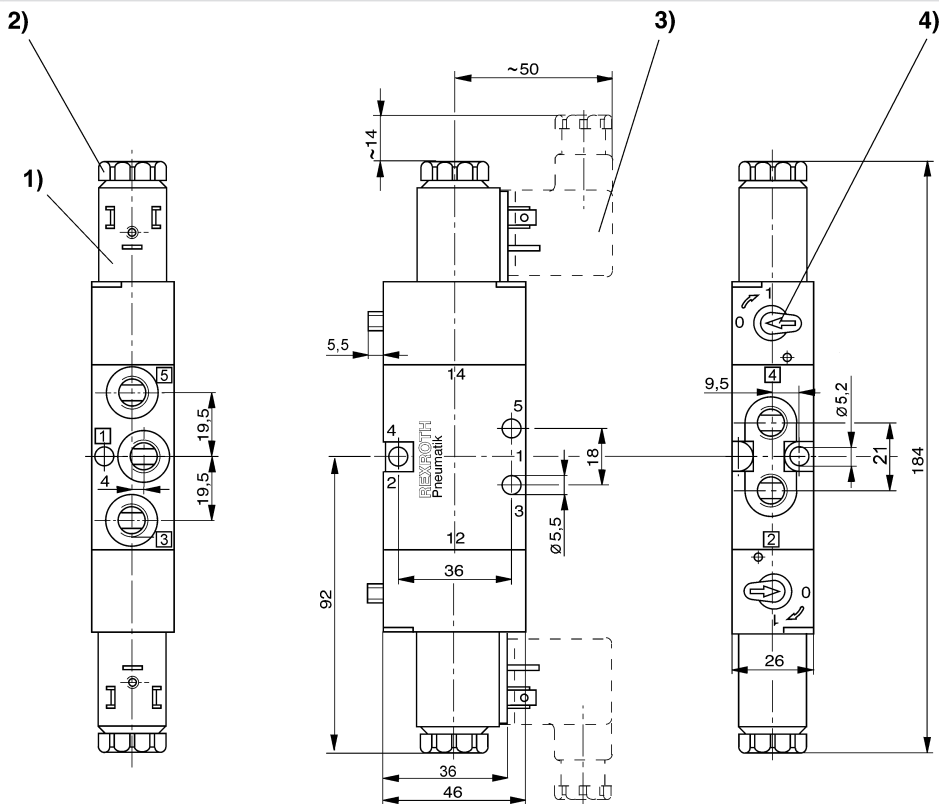
5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: M10x1 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

Part No.	Switch-on time	Switch-off time	Weight	Note
	[ms]	[ms]	[kg]	
5777200220	12	12	0.49	-
5777205280				
5777205302	-	-	0.39	1)

MO = Manual override
1) Basic valve without coil
Pilot: internal
Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions



00134421

- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

Directional valves → Electrically operated

5/3-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid



00134136

Version	Spool valve, zero overlap
Pilot	internal
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	3.5 bar / 10 bar
Control pressure min./max.	3.5 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Compressed air connection	according to ISO 228-1 with directional pilot air exhaust
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

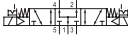



Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	11.5	9.7	9	7.4

	MO	Compressed air connection				Operating voltage			Flow rate value			Part No.
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	Qn 2►3	
									[l/min]			
		G 1/8	G 1/8	G 1/8	M5	24 V	-	-	900	900	900	5777420220
						-	230 V	230 V				5777425280
		G 1/8	G 1/8	G 1/8	M5	-	-	-	900	900	900	5777425302
		G 1/8	G 1/8	G 1/8	M5	24 V	-	-	900	900	900	5777410220
						-	230 V	230 V				5777415280
		G 1/8	G 1/8	G 1/8	M5	-	-	-	900	900	900	5777415302

Directional valves → Electrically operated

5/3-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

	MO	Compressed air connection				Operating voltage			Flow rate value			Part No.
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	Qn 2►3	
									[l/min]			
		G 1/8	G 1/8	G 1/8	M5	24 V -	- 230 V	- 230 V	900	900	900	5777400220 5777405280
		G 1/8	G 1/8	G 1/8	M5	-	-	-	900	900	900	5777405302
Part No.	Switch-on time		Switch-off time		Weight		Note					
	[ms]		[ms]		[kg]							
5777420220 5777425280	12		27		0.5				-			
5777425302	-		-		0.39				1)			
5777410220 5777415280	12		27		0.5				-			
5777415302	-		-		0.39				1)			
5777400220 5777405280	12		27		0.5				-			
5777405302	-		-		0.39				1)			

MO = Manual override

1) Basic valve without coil

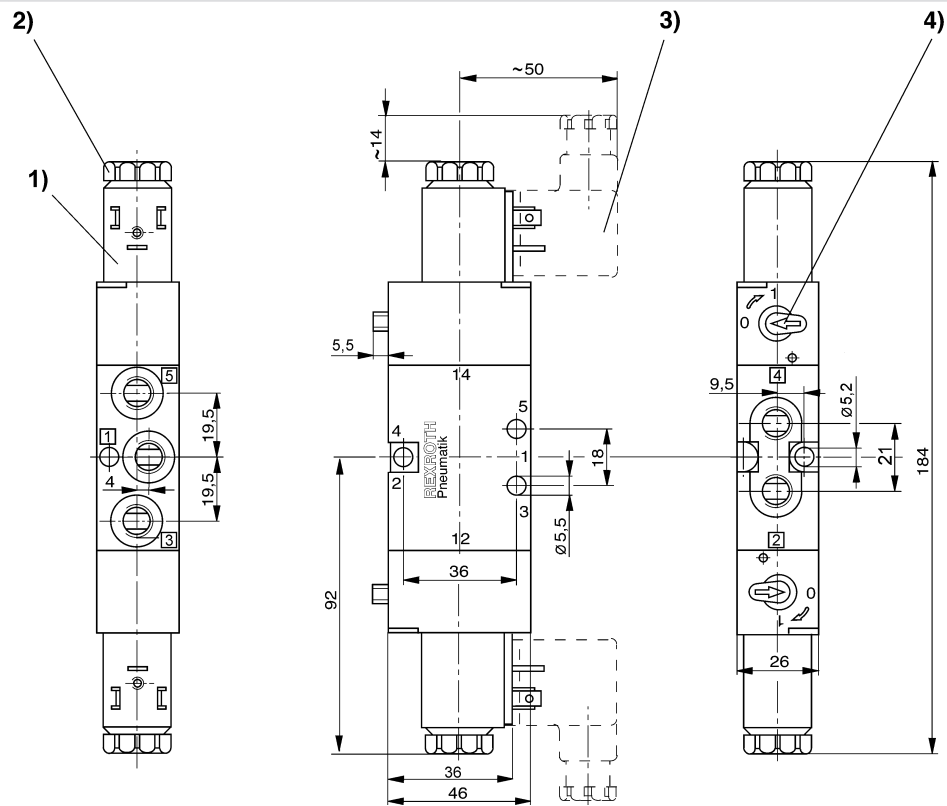
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

5/3-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

Dimensions



00134421

- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

Directional valves → Electrically operated

3/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent



00134133

Version	Spool valve, zero overlap
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	3 bar / 10 bar
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Compressed air connection	according to ANSI B1.20.3
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- 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.

Operating 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
12 V	-	-	-10% / +10%	-	-	4.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	10.8	9.5	8.3	7.2

		MO	Compressed air connection				Operating voltage			Flow rate value		Part No.
			Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	
										[l/min]		
	NC, NO		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V 24 V -	- - 110 V	- - 110 V	900	900	R412012695 R412012696 R412012698
	NC, NO		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	-	-	-	900	900	R412012700

Directional valves → Electrically operated

3/2-way valve, Series CD04

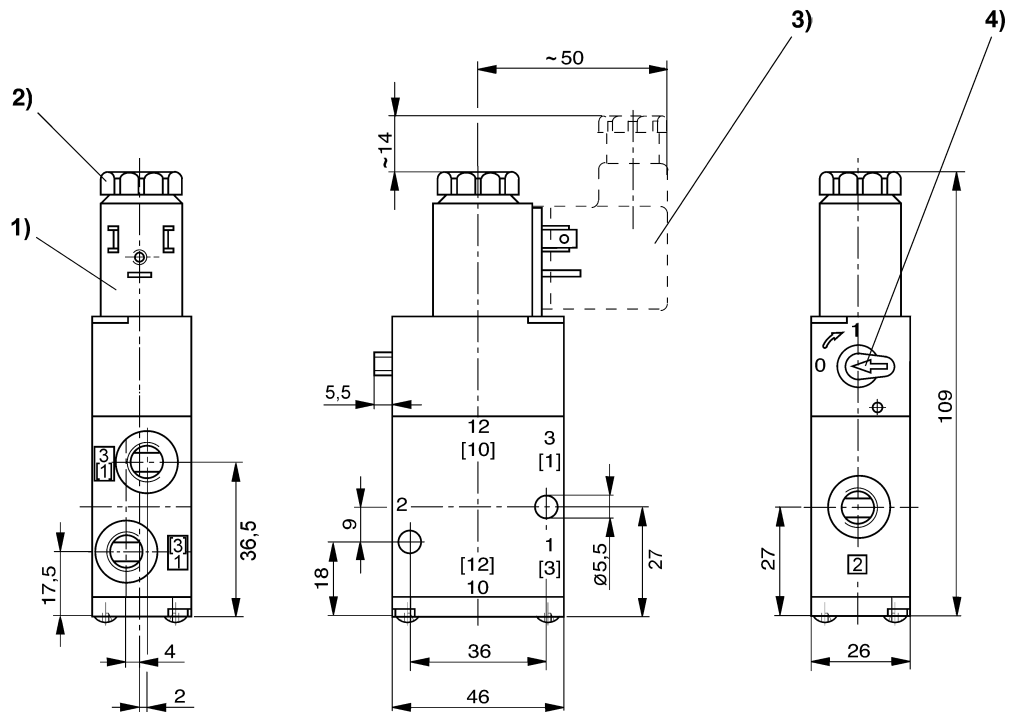
► $Q_n = 900 \text{ l/min}$ ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent

Part No.	Flow rate value	Switch-on time	Switch-off time	Weight	Note
	Q_n 2►3				
	[l/min]	[ms]	[ms]	[kg]	
R412012695	900	13	27	0.32	-
R412012696					
R412012698					
R412012700	900	-	-	0.26	1)

MO = Manual override

1) Basic valve without coil

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

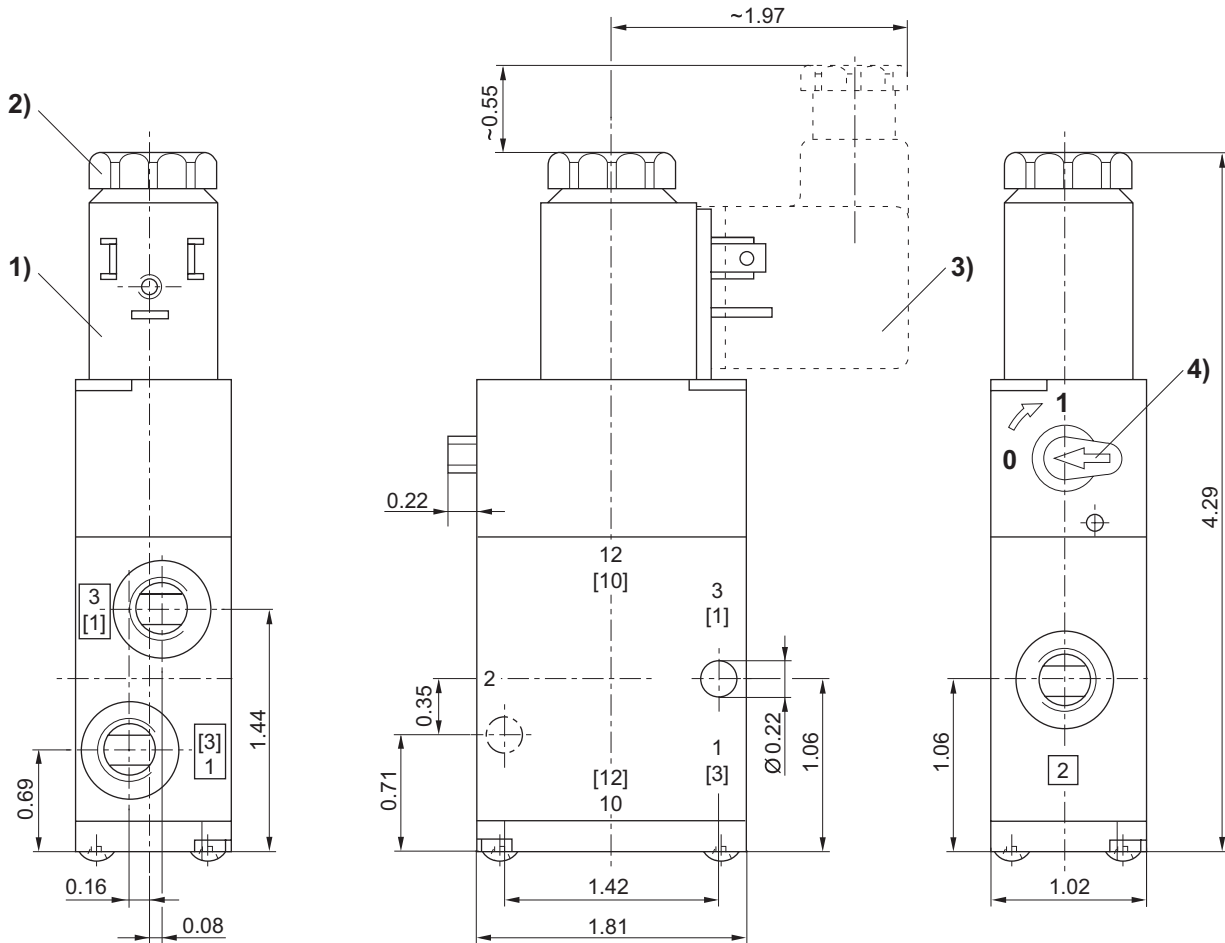
Dimensions in mm

00134420

- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

3/2-way valve, Series CD04

Dimensions in inches



00134326

- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid



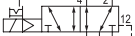

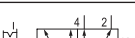

00134134

Version	Spool valve, zero overlap
Pilot	internal
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	3 bar / 10 bar
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Compressed air connection	according to ANSI B1.20.3
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

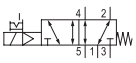

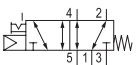

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	4.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	10.8	9.5	8.3	7.2

	MO	Compressed air connection				Operating voltage			Flow rate value			Part No.
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	Qn 2►3	
									[l/min]			
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V 24 V -	- - 110 V	- - 110 V	900	900	900	R412012840 R412012841 R412012842
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	-	-	-	900	900	900	R412012843

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

	MO	Compressed air connection				Operating voltage			Flow rate value			Part No.
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	Qn 2►3	
									[l/min]			
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V 24 V -	- - 110 V	- - 110 V	900	900	900	R412012708 R412012709 R412012711
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	-	-	-	900	900	900	R412012713
Part No.	Switch-on time		Switch-off time		Weight		Note					
	[ms]		[ms]		[kg]							
R412012840 R412012841 R412012842	12		21		0.38		-					
R412012843	12		21		0.33		1)					
R412012708 R412012709 R412012711	12		21		0.38		-					
R412012713	12		21		0.33		1)					

MO = Manual override

1) Basic valve without coil

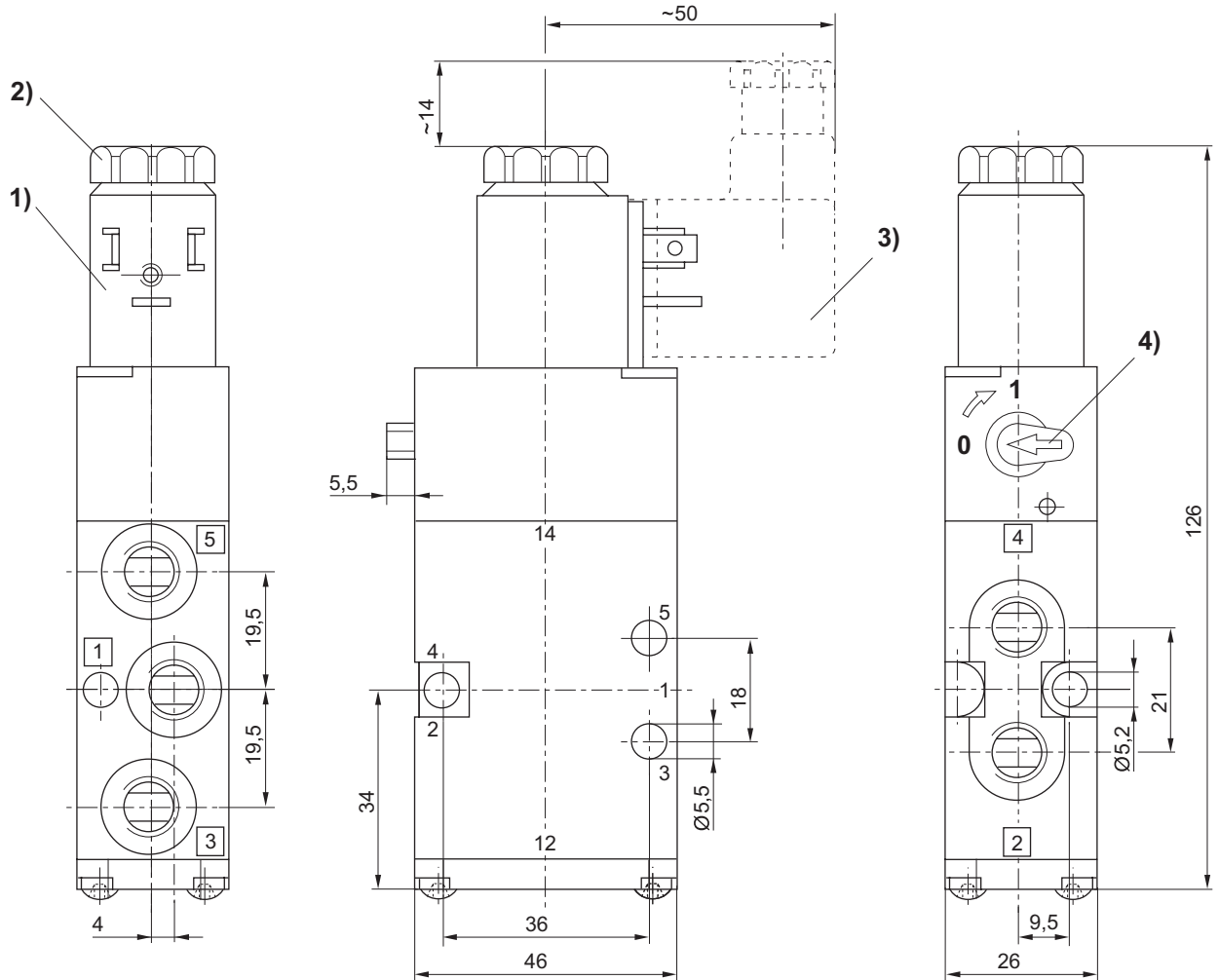
Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Directional valves → Electrically operated

5/2-way valve, Series CD04

► $Q_n = 900 \text{ l/min}$ ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

Dimensions in mm



- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

00134422

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► single solenoid

Technical drawing of a mechanical component, showing three views: front view (left), side view (middle), and top view (right). The drawing includes dimensions and numbered callouts (1-5) for specific features.

Front View (Left):

- Callout 1 points to a small rectangular feature on the upper section.
- Callout 2 points to a small rectangular feature on the upper section.
- Callout 3 points to a small rectangular feature on the lower section.
- Callout 5 points to a circular feature on the lower section.
- Dimensions: 0.16 (width of the base), 0.77 (height of the middle section), 0.77 (height of the lower section).

Side View (Middle):

- Callout 1 points to a small rectangular feature on the upper section.
- Callout 2 points to a small rectangular feature on the lower section.
- Callout 3 points to a small rectangular feature on the lower section.
- Callout 4 points to a small rectangular feature on the lower section.
- Callout 5 points to a small rectangular feature on the lower section.
- Dimensions: 0.22 (width of the base), 1.34 (height of the middle section), 1.42 (width of the middle section), 1.81 (width of the base), 0.71 (height of the lower section), 0.22 (width of the lower section).

Top View (Right):

- Callout 1 points to a small rectangular feature on the upper section.
- Callout 2 points to a small rectangular feature on the lower section.
- Callout 3 points to a small rectangular feature on the lower section.
- Callout 4 points to a small rectangular feature on the lower section.
- Callout 5 points to a small rectangular feature on the lower section.
- Dimensions: 1.02 (width of the base), 0.37 (width of the middle section), 0.83 (width of the lower section), 4.96 (height of the middle section), 0.20 (width of the lower section).

00134502

- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Q_n = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid



00134135

Version	Spool valve, zero overlap
Pilot	internal
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	2 bar / 10 bar
Control pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Compressed air connection	according to ANSI B1.20.3
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating 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
12 V	-	-	-10% / +10%	-	-	4.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	10.8	9.5	8.3	7.2

	MO	Compressed air connection				Operating voltage			Flow rate value			Part No.
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Q _n	Q _n 1►2	Q _n 2►3	
									[l/min]			
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V	-	-	900	900	900	R412012999
						24 V	-	-				R412013000
						-	110 V	110 V				R412013001
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	-	-	-	900	900	900	R412013002

Directional valves → Electrically operated

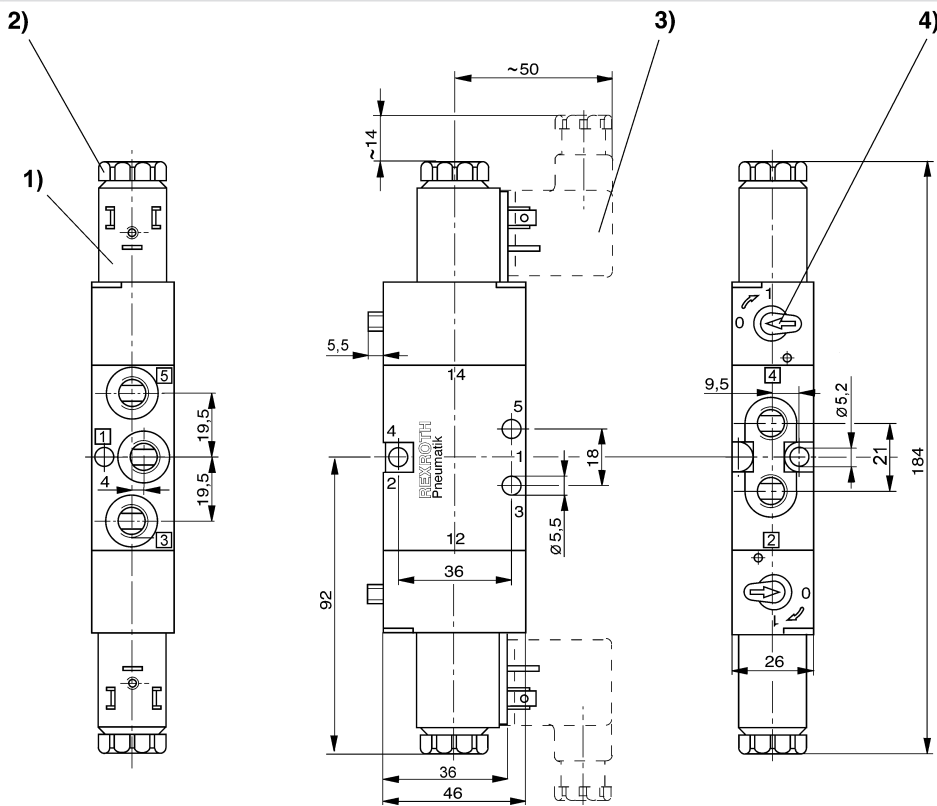
5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

Part No.	Switch-on time	Switch-off time	Weight	Note
	[ms]	[ms]	[kg]	
R412012999 R412013000 R412013001	12	12	0.46	-
R412013002	12	12	0.36	1)

MO = Manual override
1) Basic valve without coil
Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions in mm



00134421

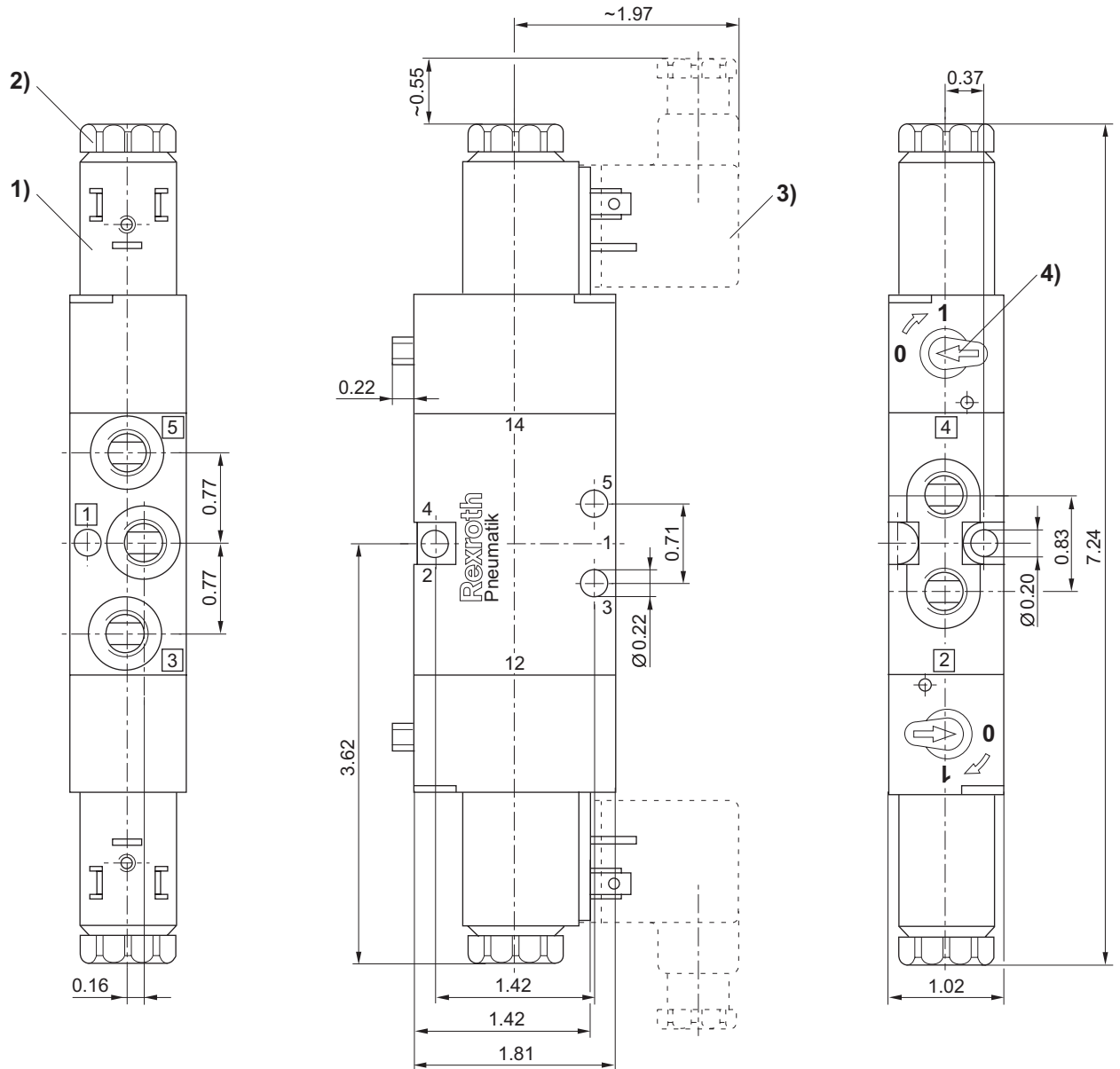
- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

Directional valves → Electrically operated

5/2-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent ► double solenoid

Dimensions in inches



- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

Directional valves → Electrically operated

5/3-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent



00134136

Version	Spool valve, zero overlap
Pilot	internal
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	3.5 bar / 10 bar
Control pressure min./max.	3.5 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Compressed air connection	according to ANSI B1.20.3
Connector standard	EN 175301-803:2006
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Compatibility index	14
Duty cycle	100 %
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

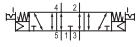





Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	4.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	10.8	9.5	8.3	7.2

	MO	Compressed air connection				Operating voltage			Flow rate value			Part No.
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	Qn 2►3	
									[l/min]			
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V	-	-	900	900	900	R412013018
						24 V	-	-	900	900	900	R412013019
						-	110 V	110 V	900	900	900	R412013020
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	-	-	-	900	900	900	R412012852
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V	-	-	900	900	900	R412013015
						24 V	-	-	900	900	900	R412013016
						-	110 V	110 V	900	900	900	R412013017

Directional valves → Electrically operated

5/3-way valve, Series CD04

► Qn = 900 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent

	MO	Compressed air connection				Operating voltage			Flow rate value			Part No.
		Input	Output	Exhaust	Pilot control exhaust	DC	AC 50 Hz	AC 60 Hz	Qn	Qn 1►2	Qn 2►3	
									[l/min]			
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	-	-	-	900	900	900	R412012861
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V 24 V -	- - 110 V	- - 110 V	900	900	900	R412013011 R412013012 R412013014
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	-	-	-	900	900	900	R412012858
Part No.	Switch-on time		Switch-off time		Weight		Note					
	[ms]		[ms]		[kg]							
R412013018 R412013019 R412013020	12		27		0.49		-					
R412012852	12		27		0.39		1)					
R412013015 R412013016 R412013017	12		27		0.49		-					
R412012861	12		27		0.39		1)					
R412013011 R412013012 R412013014	12		27		0.49		-					
R412012858	12		27		0.39		1)					

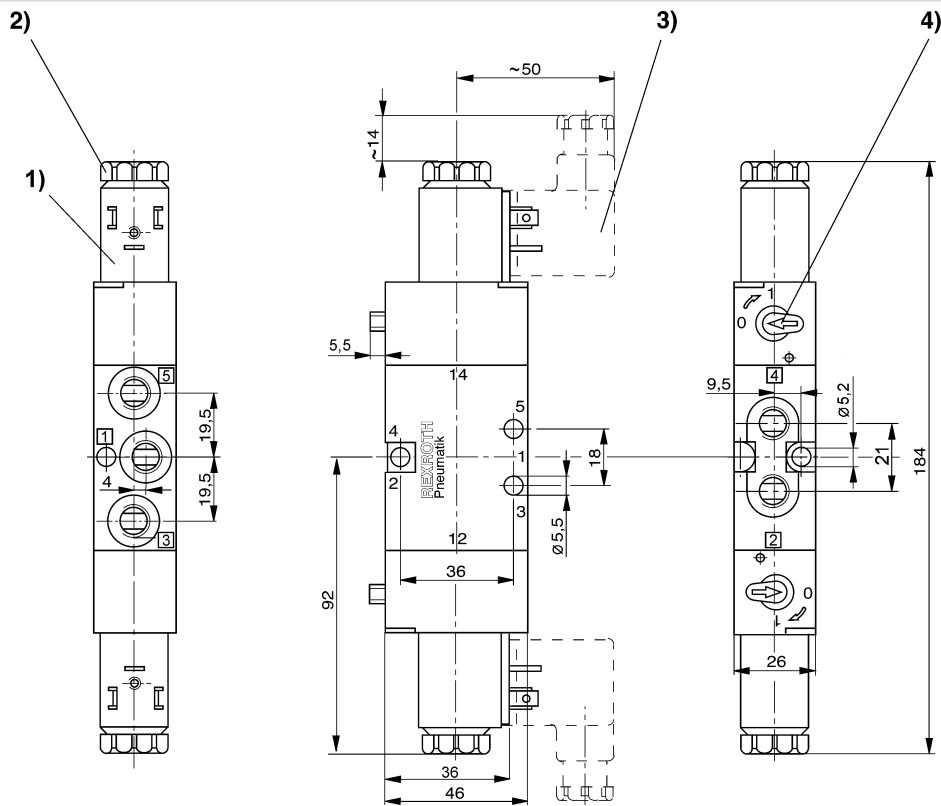
MO = Manual override

1) Basic valve without coil

Nominal flow Qn at 6 bar and Δp = 1 bar

5/3-way valve, Series CD04

Dimensions in mm



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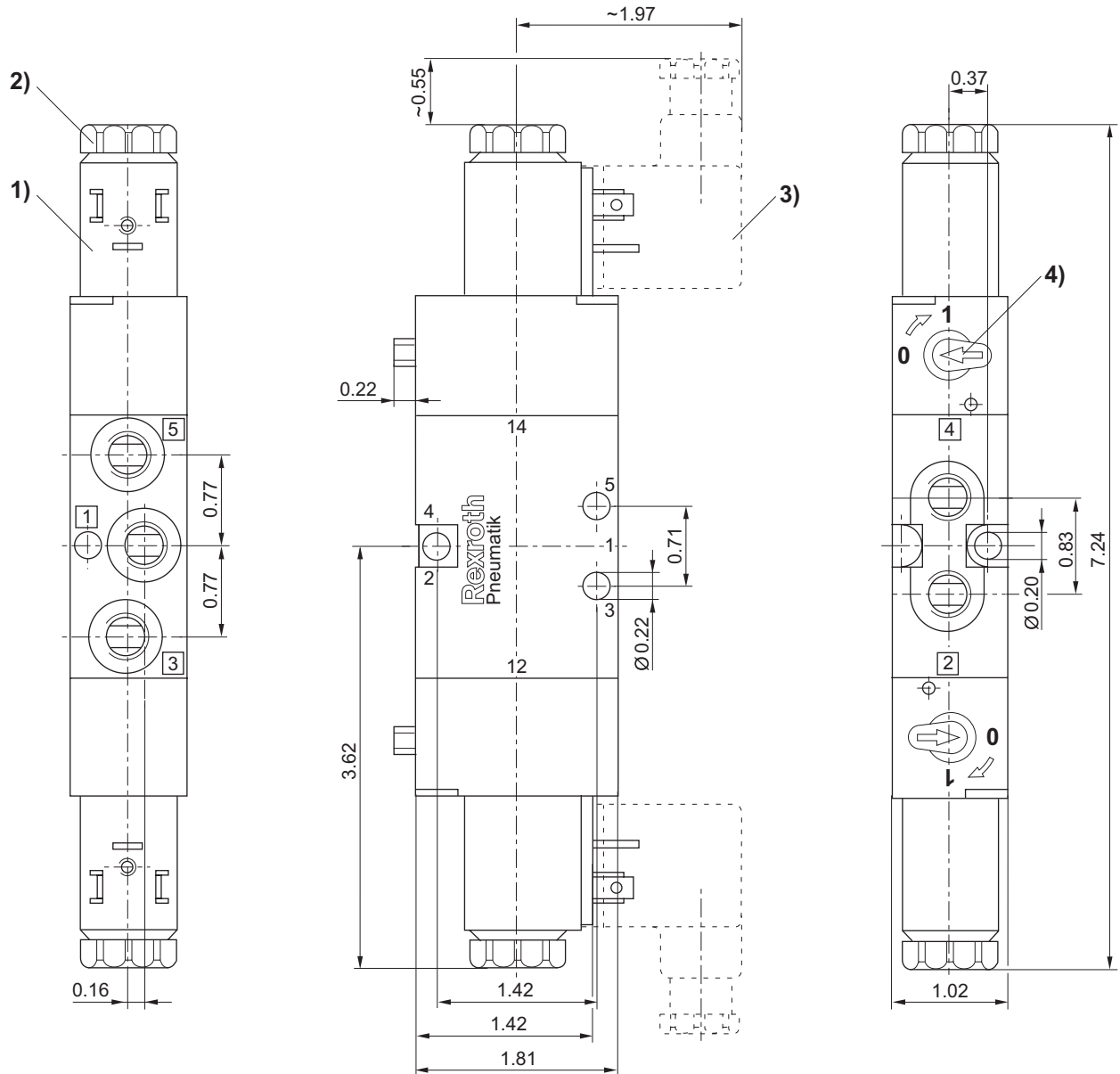
- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

Directional valves → Electrically operated

5/3-way valve, Series CD04

► $Q_n = 900 \text{ l/min}$ ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, EN 175301-803, form B ► manual override: with detent

Dimensions in inches



- 1) coil can be rotated at 90° intervals
- 2) after removal of cap M 5 internal thread M5
- 3) electrical connector can be plugged at 180° intervals
- 4) manual override

00134503

Directional valves → Electrically operated

Series CD04
Accessories

Electrical connectors, Series CN1
► ISO 6952 ► Electrical connector, form B

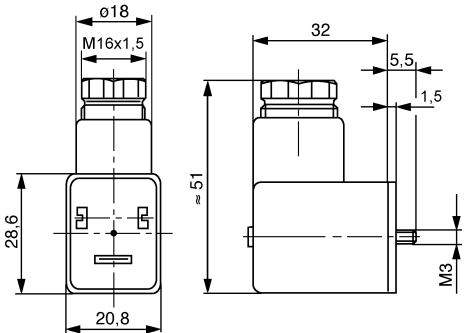
Ambient temperature min./max. -25 °C / +40 °C
Protection class according to EN 60529: IP 65
Cable fitting M16x1,5
mounting screw tightening torque 0.4 Nm



00110264_b

	Operating voltage		Max. current	Contact assignment	Cable exit	Protective circuit	suitable cable-Ø min./max	Part No.
	DC	AC						
	[V]	[V]	[A]				[mm]	
	230	230	10	2+E	angled 90°	-	5 / 8	1834484096
	24	24	-	2+E	angled 90°	Z-diode	5 / 8	1834484104
	-	110 230	-	2+E	angled 90°	Varistor	5 / 8	1834484105 1834484106
Part No.	number of plug options 1			LED status display	Housing color		Weight	Note
							[kg]	
1834484096	2 positions each 180°			-	Black		0.02	Fig. 1
1834484104	2 positions each 180°			Yellow	Transparent		0.02	Fig. 2
1834484105 1834484106	2 positions each 180°			Red	Transparent		0.02	Fig. 2

Fig. 1



00110261_c

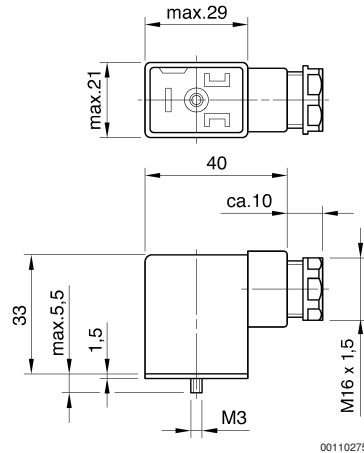
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information
Pneumatics catalog, online PDF, as of 2010-01-16, © Bosch Rexroth AG, subject to change

Directional valves → Electrically operated

Series CD04

Accessories

Fig. 2



Electrical connectors, Series CN1

► ISO 6952 ► Electrical connector, form B ► with cable

Ambient temperature min./max.
Protection class according to EN 60529
Cable exit
Tightening torque for mounting screws

-20 °C / +80 °C
IP 67
angled 90°
0.4 Nm



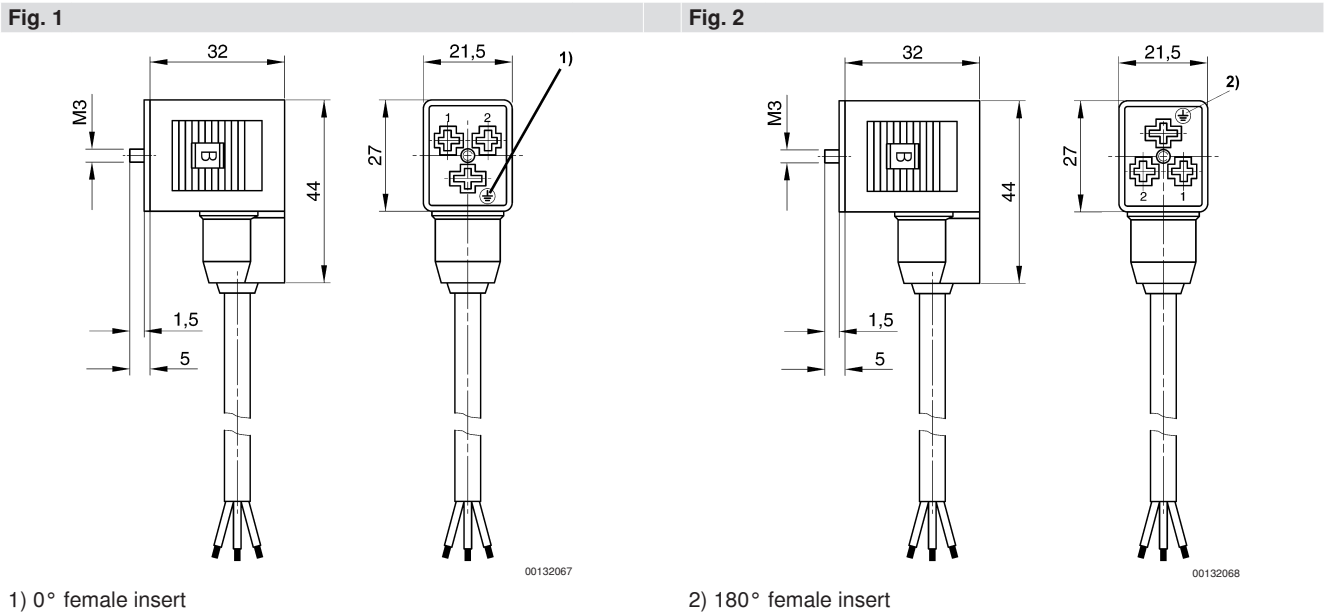
00110292_a

	Electrical interface	Number of plug options	Operating voltage		Max. current	Protective circuit	Contact assignment	Part No.
	[Port 1]	[for port 1]	[V DC]	[V AC]	[A]			
	Electrical connector, form B	1 position	230	230	10	-	2+E	1834484148
								1834484149
								1834484150
								1834484151
	Electrical connector, form B	1 position	24	24	10	Z-diode	2+E	1834484152
								1834484153
								1834484154
								1834484155
	Electrical connector, form B	1 position	230	230	10	Varistor	2+E	1834484156
								1834484157
								1834484158
								1834484159

Directional valves → Electrically operated

Series CD04
Accessories

Part No.	LED status display	Housing color	Cable length	Weight	Note
			[m]	[kg]	
1834484148	-	Black	3	0.2	Fig. 1
1834484149			3	0.2	Fig. 2
1834484150			5	0.31	Fig. 1
1834484151			5	0.31	Fig. 2
1834484152	Yellow	Black	3	0.2	Fig. 3
1834484153			3	0.2	Fig. 4
1834484154			5	0.31	Fig. 3
1834484155			5	0.31	Fig. 4
1834484156	Red	Black	3	0.2	Fig. 3
1834484157			3	0.2	Fig. 4
1834484158			5	0.31	Fig. 3
1834484159			5	0.31	Fig. 4

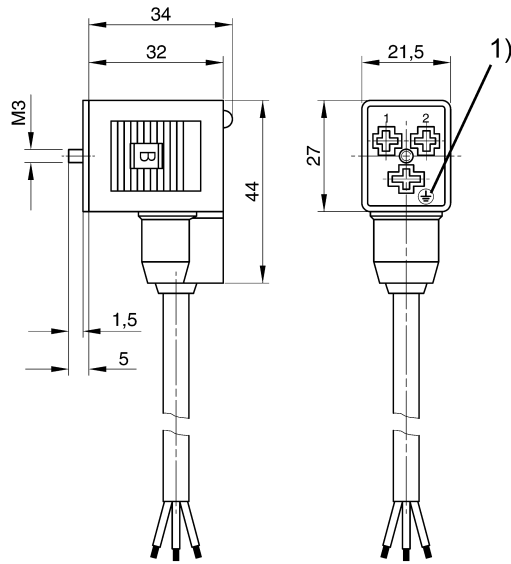


Directional valves → Electrically operated

Series CD04

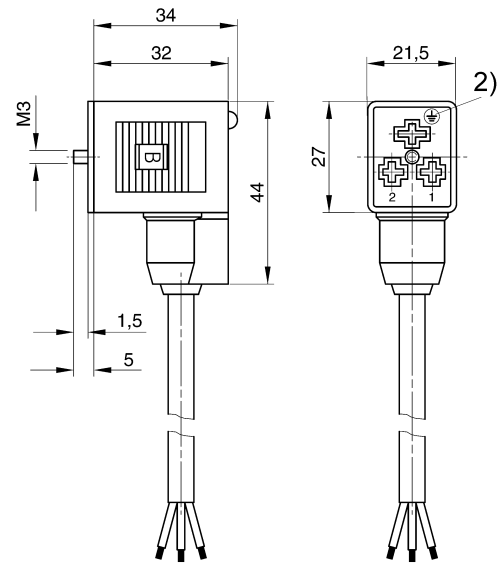
Accessories

Fig. 3



1) 0° female insert

Fig. 4



2) 180° female insert

Coil, Series CO1

► Coil width 22 mm ► form B



Connector standard
electrical connections
Ambient temperature min./max.
Protection class according to EN
60529:2000, with electrical connector
Duty cycle ED

EN 175301-803, form B
Plug
-- / +50 °C
IP 65
100 %


Materials:
Housing

Thermoplastic elastomer

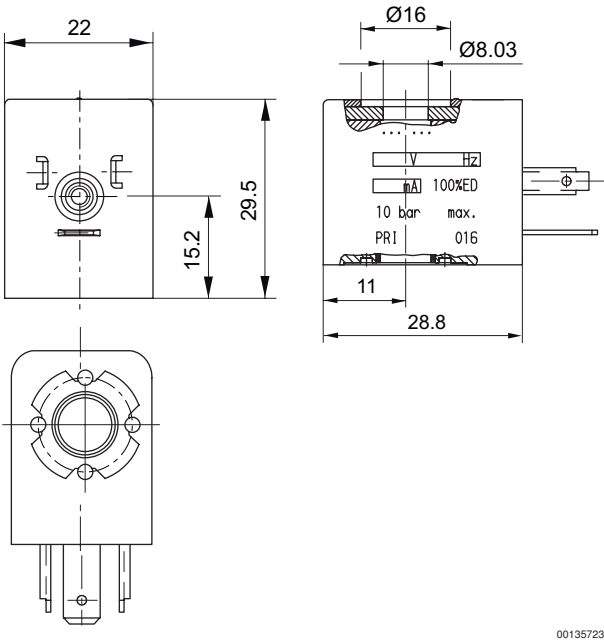
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
110 V	220 V	230 V	-10% / +10%	-10% / +10%	-10% / +10%	4.9	12.6	10.2	9.7	7.9
60 V	110 V	110 V	-10% / +10%	-10% / +10%	-10% / +10%	5.9	11	9.4	8.4	6.8
12 V	24 V	24 V	-10% / +10%	-10% / +10%	-10% / +10%	5.5	12	9.9	8.9	7.3
48 V	-	-	-10% / +10%	-10% / +10%	-10% / +10%	5	-	-	-	-
24 V	48 V	48 V	-10% / +10%	-10% / +10%	-10% / +10%	4.8	10.5	9.4	7.7	6.2

Directional valves → Electrically operated

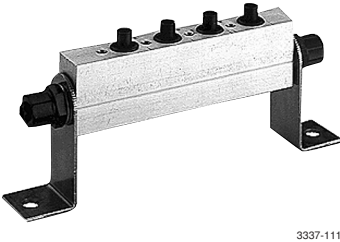
Series CD04
 Accessories

	Operating voltage			Compatibility index	Weight	Part No.
	DC	AC 50 Hz	AC 60 Hz			
					[kg]	
	110 V	220 V	230 V	14	0.07	1824210235
	60 V	110 V	110 V			1824210237
	12 V	24 V	24 V			1824210239
	48 V	-	-			1824210241
	24 V	48 V	48 V			1824210243

Dimensions



Manifold strip, Series CD04



3337-111

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)	unrestricted exhaust
Compressed air connection	according to ISO 228-1

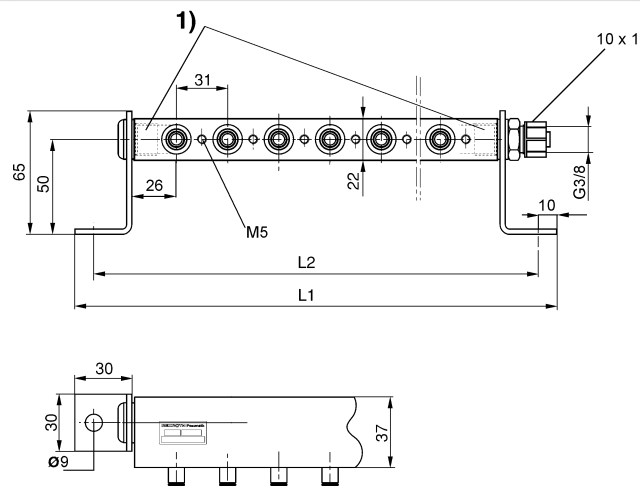
Materials:	
Subbase	Aluminum; Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber
Mounting bracket	Steel

Directional valves → Electrically operated

Series CD04
Accessories
Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Compressed air connection	Number of valve positions	Part No.
Input		
[1]		
Ø 10x1	2	3337110222
	3	3337110232
	4	3337110242
	5	3337110252
	6	3337110262
	7	3337110272
	8	3337110282
	9	3337110292
	10	3337110302
	11	3337110312
	12	3337110322

Dimensions

D333_711

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

Part No.	L1	L2										
3337110222	142	122										
3337110232	169	149										
3337110242	196	176										
3337110252	223	203										
3337110262	250	230										
3337110272	277	257										
3337110282	304	284										
3337110292	331	311										
3337110302	358	338										
3337110312	385	365										

Directional valves → Electrically operated

Series CD04
Accessories

Part No.	L1	L2										
3337110322	412	392										

R, P, S subbase, Series CD04



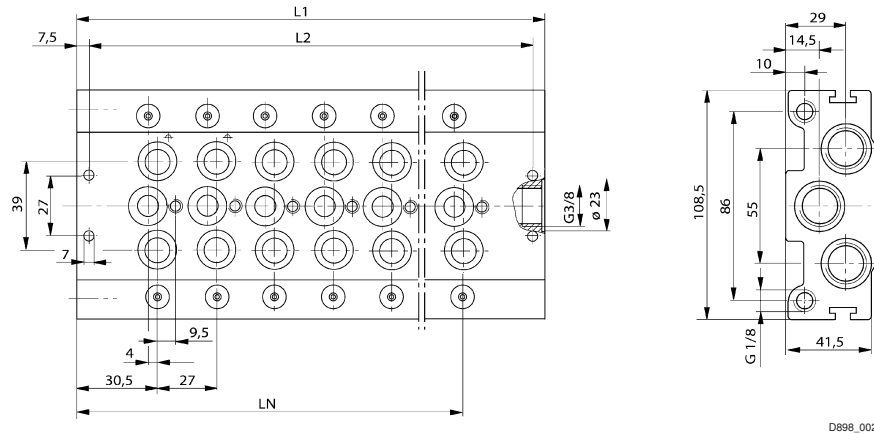
5772-201

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:	
Subbase	Aluminum; Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks
■ 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 air pressure must remain constant during the life cycle.
■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Compressed air connection			Number of valve positions	Weight	Part No.
Input	Exhaust	Pilot connection			
[1]	[3 / 5]			[kg]	
G 3/8	G 3/8	G 1/8	4	1.3	8985070042
			6	1.8	8985070062
			8	2.3	8985070082
			10	2.7	8985070102
			12	3.2	8985070122

Directional valves → Electrically operated

Series CD04
Accessories
Dimensions


Part No.	L1	L2	LN									
8985070042	142	127	112									
8985070062	196	181	166									
8985070082	250	235	200									
8985070102	304	289	274									
8985070122	358	343	328									

Accessories
► For R, P, S subbase

Fig.1

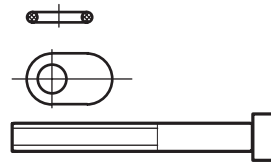


Fig.2

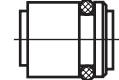


Fig.3



00133201

Part No.	Type	Weight [kg]	Note							
3354800092	mounting kit for 10 valves, delivery incl. seals and mounting screws	-	Fig. 1							
3354800082	P plug	0.017	Fig. 2							
3354800072	R/S plug	0.022	Fig. 3							

Directional valves → Electrically operated

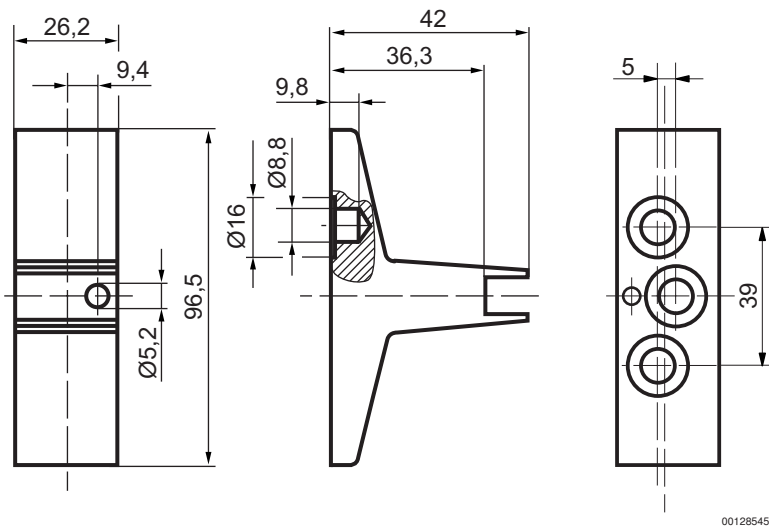
Series CD04
Accessories

Blanking plate

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
Number of valve positions	1
Materials:	
Subbase	Aluminum

	Weight	Part No.
	[kg]	
	0.104	3354801004

Dimensions



Silencers, Series SI1
► Sintered bronze



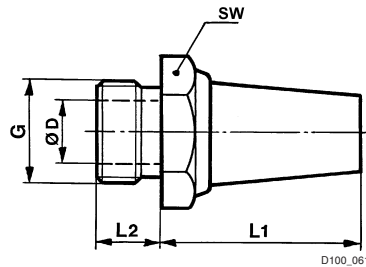
Working pressure min./max.	0 bar / 10 bar
Ambient temperature min./max.	-25 °C / +80 °C
Medium	Compressed air
Materials:	
Silencers	Sintered bronze
Thread	Brass

Directional valves → Electrically operated

Series CD04

Accessories

Dimensions



Part No.	Port G	Sound pressure level [db(A)]	Qn [l/min]	SW	Ø D	L1	L2	Weight [kg]	Delivery quantity [Piece]
1827000000	G 1/8	75	1500	13	6	18	6	0.01	10

Sound pressure level measured at 6 bar at 1 m distance

Silencers, Series SI1

► Sintered bronze



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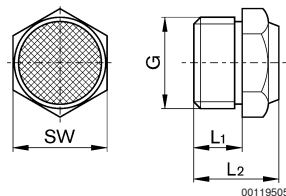
Working pressure min./max.
Ambient temperature min./max.
Medium

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

Materials:
Silencers
Thread

Sintered bronze
Brass

Dimensions



Part No.	Port G	Sound pressure level [db(A)]	Qn [l/min]	L1	L2	SW	Weight [kg]	Delivery quantity [Piece]
1827000031	G 1/8	85	640	6	11.5	13	0.001	10

Sound pressure level measured at 6 bar at 1 m distance

Directional valves → Electrically operated

Series CD04
Accessories

Silencers, Series SI1
► Sintered bronze



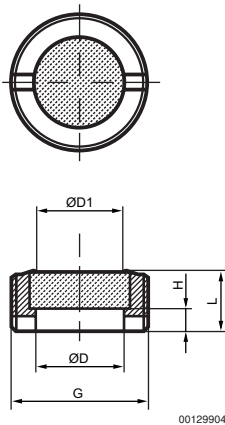
Working pressure min./max.
 Ambient temperature min./max.
 Medium

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

Materials:
 Silencers
 Thread

Sintered bronze
 Brass

Dimensions



Part No.	Port G	Ø D	Ø D1	H	L	Delivery quantity [Piece]					
1827430004	G 1/8	6	5	2	4	10					

Silencers, Series SI1
► Polyethylene



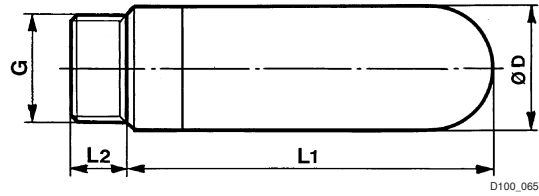
Working pressure min./max.
 Ambient temperature min./max.
 Medium

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

Materials:
 Silencers
 Thread

Polyethylene
 Polyethylene

Directional valves → Electrically operated

Series CD04
Accessories
Dimensions


Part No.	Port G	Sound pressure level [db(A)]	Qn [l/min]	Ø D	L1	L2	Weight [kg]	Delivery quantity [Piece]		
1827000019	G 1/8	78	1500	12.5	28.5	5.5	0.002	5		

Sound pressure level measured at 6 bar at 1 m distance

Blanking screw, gasket

► G 1/8 ► FPT-S-RBI

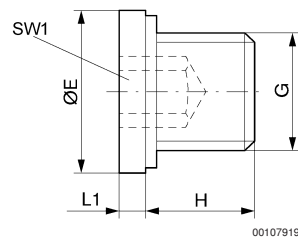


Ambient temperature min./max.
Working pressure min./max.

-20°C / +80°C
0 bar / 16 bar

Materials:
Housing
Seal
Thread

Steel, galvanized
Polyvinyl chloride, hard
Steel, galvanized

Dimensions


Part No.	Port G	Ø E	H	L1	SW1	Delivery quantity [Piece]						
1823462028	G 1/8	14	8	3	5	25						

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Subject to modifications.

Online-PDF
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