

Directional valves ► Electrically operated

Series DO

Brochure




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Series DO













	<p>3/2-directional valve, Series DO10</p> <p>► Qn = 7.5 - 14 l/min ► plate connection ► Electr. connection: Socket, Industrial plug connector ► Manual override: with detent, without detent</p>	6
	<p>3/2-directional valve, Series DO16</p> <p>► Qn = 16 - 36 l/min ► plate connection ► Electr. connection: Plug, ISO 15217, form C ► Manual override: without detent, with detent</p>	8
	<p>3/2-directional valve, Series DO22</p> <p>► Qn = 40 - 52 l/min ► pipe connection ► Compressed air connection output: M5</p> <p>► Electr. connection: Form B, industry ► Can be assembled into blocks ► single valve</p> <p>► Manual override: with detent ► single solenoid</p>	11
	<p>3/2-directional valve, Series DO22</p> <p>► Qn = 48 - 56 l/min ► plate connection ► Electr. connection: Plug, ISO 6952, form B</p> <p>► Manual override: with detent, without</p>	14
	<p>3/2-directional valve, Series DO30</p> <p>► Qn = 54 - 105 l/min ► Pilot valve width: 30 mm ► Plate valve with pipe connection</p> <p>► Compressed air connection output: CNOMO ► Electr. connection: Plug, ISO 4400, form A</p> <p>► Manual override: without detent, with detent</p>	16
	<p>3/2-directional valve, Series DO22</p> <p>► Qn = 55 - 88 l/min ► pipe connection ► Compressed air connection output: G 1/8</p> <p>► Electr. connection: Plug, ISO 6952, form B ► Manual override: with detent, without</p>	19
	<p>3/2-directional valve, Series DO22</p> <p>► Qn = 61 - 77 l/min ► Plate valve with pipe connection ► Electr. connection: Plug, ISO 6952, form B ► Manual override: with detent, without</p>	22
	<p>3/2-directional valve, Series DO35</p> <p>► NO ► Qn = 110 - 130 l/min ► pipe connection ► Compressed air connection output: G 1/8</p> <p>► Electr. connection: Plug, ISO 4400, form A ► Manual override: with detent</p>	25
	<p>3/2-directional valve, Series DO35</p> <p>► NC ► Qn = 130 - 140 l/min ► pipe connection ► Compressed air connection output: G 1/8</p> <p>► Electr. connection: Plug, ISO 4400, form A ► Manual override: with detent</p>	28
Accessories		
	<p>Electrical connector, Series CN1</p> <p>► 18 mm ► ISO 4400 ► form A</p>	31

Directional valves ► Electrically operated Series DO

	Connector with cable, Series CN1 ► form A ► 18 mm	32
	Electrical connector, Series CN1 ► 10 mm ► ISO 6952	34
	Connector with cable, Series CN1 ► form B ► 10 mm	36
	Electrical connector, Series CN1 ► 8 mm ► ISO 15217 ► form C	37
	Connector with cable, Series CN1 ► form C ► 8 mm	40
	Coil, Series CO1 ► form A ► Coil width 30 mm	41
	Coil, Series CO1 ► form B ► Coil width 22 mm	43
	Coil, Series CO1 ► Cable with connector ► Coil width 30 mm ► ATEX certified	44
	Manifold block, Series DO10 ► Compressed air connection output: M3	46
	Blanking plate, Series DO10	47
	Manifold block, Series DO16 ► Compressed air connection output: M5	48

Directional valves ► Electrically operated

Series DO

	Manifold block, Series DO16 ► Compressed air connection output: Ø 4x1	50
	Blanking plate, Series DO16	51
	Manifold block, Series DO22 ► Compressed air connection output: M5	52
	Manifold block, Series DO22 ► Compressed air connection output: Ø 4	54
	Manifold block, Series DO22 ► Compressed air connection output: M5	56
	Blanking plate, Series DO22	57
	Single subbase, Series DO22 ► Compressed air connection output: M5	58
	Blanking screw, gasket ► M5 ► FPT-S-RBI	59
	Manifold block, Series DO30	60
	Blanking plate, Series DO30	61
	Subbase, Series DO35 ► Compressed air connection output: G 1/8	62
	Mounting bracket kit, Series DO35	64

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
Series DO



Pilot valve, Series DO35

- Qn = 110 - 140 l/min ► pipe connection ► Electr. connection: Plug, ISO 4400, form A
- Manual override: with detent

64



Connecting cable, Series CN2

- Socket, 2-pin, straight ► without wire end ferrule, tin-plated, 2-pin ► RJ plug connector

65

3/2-directional valve, Series DO10

► Qn = 7.5 - 14 l/min ► plate connection ► Electr. connection: **Socket, Industrial plug connector** ► Manual override: with detent, without detent



00106718

Version	Poppet valve
Sealing principle	Soft sealing
Mounting on manifold strip	PRS strip
Working pressure min./max.	0 bar / 8 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Nominal flow 1 ► 2	7.5 l/min
Nominal flow 2 ► 3	14 l/min
Protection class with connection	IP50
Protective circuit	Z-diode
Status display LED	Yellow
Duty cycle	100 %
Mounting screw	M1.6
Weight	0.038 kg
Materials:	
Housing	polyphenylene sulfide
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
DC	DC	DC
		W
24 V	-10% / +10%	1.2

	MO	Operating voltage	Power consumption	Part No.
		DC	DC	
			[W]	
		24 V	1.2	1827414900
		24 V	1.2	1827414901

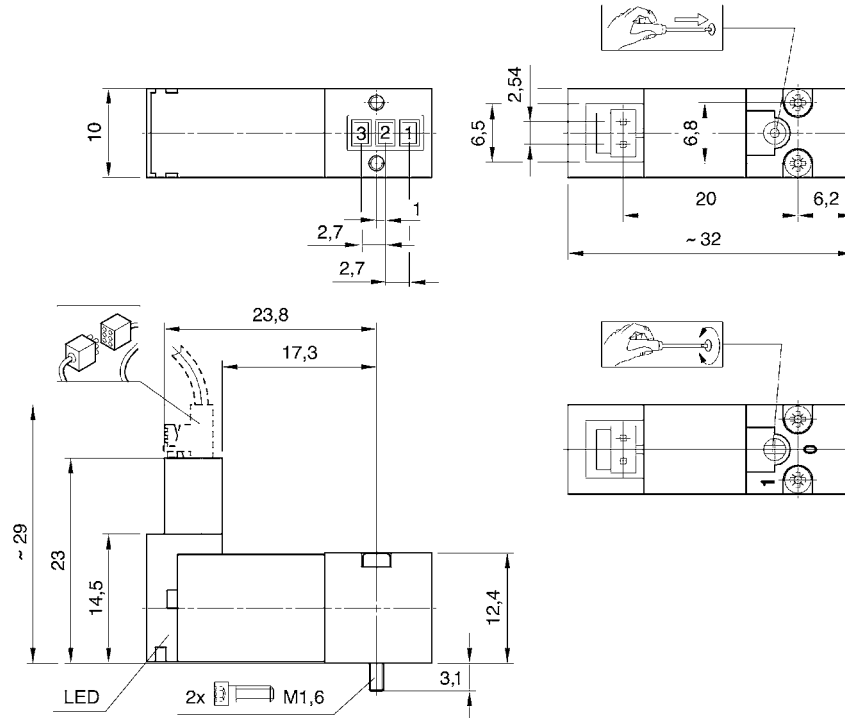
MO = Manual override
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves ► Electrically operated

3/2-directional valve, Series DO10

► $Q_n = 7.5 - 14 \text{ l/min}$ ► plate connection ► Electr. connection: Socket, Industrial plug connector ► Manual override: with detent, without detent

Dimensions



00110046

3/2-directional valve, Series DO16

► Qn = 16 - 36 l/min ► plate connection ► Electr. connection: Plug, ISO 15217, form C ► Manual override: without detent, with detent



21498

Version	Poppet valve
Sealing principle	Soft sealing
Mounting on manifold strip	PRS strip
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow 1 ► 2	See table below
Nominal flow 2 ► 3	See table below
Protection class acc. to DIN EN 61140 electrically	Class I
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	M3
Weight	0.035 kg
Materials:	
Housing	polyphenylene sulfide; 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% / +15%	-	-	2	-	-	-	-
-	24 V	-	-	-10% / +15%	-	-	2.2	-	1.6	-
-	-	110 V	-	-	-10% / +15%	-	-	2	-	1.4
-	230 V	-	-	-10% / +15%	-	-	2.2	-	1.6	-

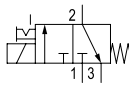

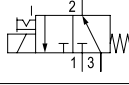

	MO	Operating voltage			Power consumption	Holding power	Holding power	Switch-on power	Switch-on power	Flow rate value		Part No.
		DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn 1►2	Qn 2►3	
					[W]	[VA]	[VA]	[VA]	[VA]	[l/min]		
		24 V	-	-	2	-	-	-	-	25	36	0820048002
		-	24 V	-	-	1.6	-	2.2	-			0820048004
		-	-	110 V	-	-	1.4	-	2			0820048005
		-	230 V	-	-	1.6	-	2.2	-			0820048001
		24 V	-	-	2	-	-	-	-	20	26	0820048102
		-	230 V	-	-	1.6	-	2.2	-	16	19	0820048101

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 DO16

► Qn = 16 - 36 l/min ► plate connection ► Electr. connection: Plug, ISO 15217, form C ► Manual override: without detent, with detent

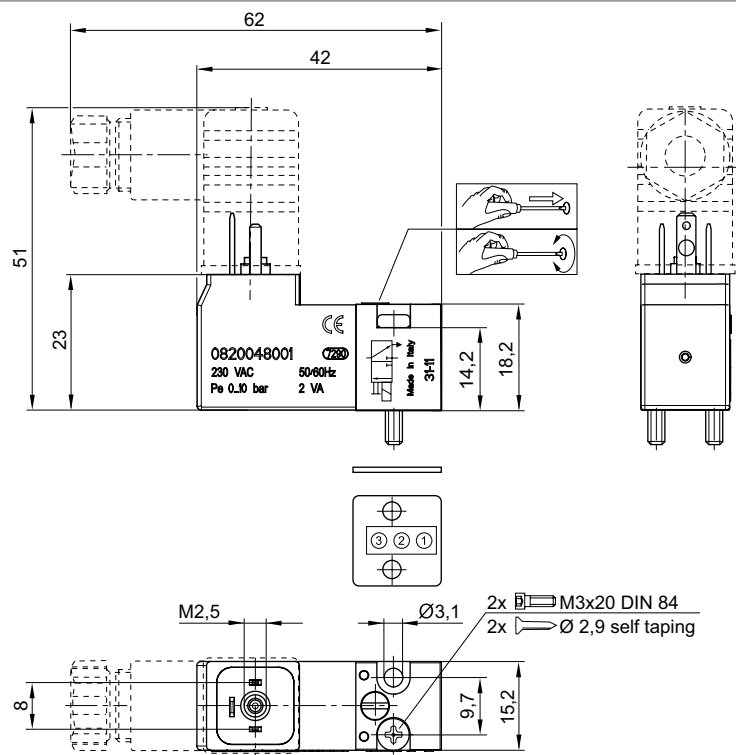
	MO	Operating voltage			Power consumption	Holding power	Holding power	Switch-on power	Switch-on power	Flow rate value		Part No.
		DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn 1►2	Qn 2►3	
					[W]	[VA]	[VA]	[VA]	[VA]	[l/min]		
		-	24 V	-	-	1.6	-	2.2	-	25	36	0820048028
		24 V	-	-	2	-	-	-	-			0820048026
		-	-	110 V	-	-	1.4	-	2			0820048029
		-	230 V	-	-	1.6	-	2.2	-			0820048025
		24 V	-	-	2	-	-	-	-	20	26	0820048126

Part No.	Working pressure min./max.
	[bar]
0820048002 0820048004 0820048005 0820048001	0 / 10
0820048102 0820048101	0 / 8 0 / 6
0820048028 0820048026 0820048029 0820048025	0 / 10
0820048126	0 / 8

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

3/2-directional valve, Series DO16

► $Q_n = 16 - 36 \text{ l/min}$ ► plate connection ► Electr. connection: Plug, ISO 15217, form C ► Manual override: without detent, with detent

Dimensions


16341

Directional valves ▶ Electrically operated

3/2-directional valve, Series DO22

▶ Qn = 40 - 52 l/min ▶ pipe connection ▶ Compressed air connection output: M5 ▶ Electr. connection: Form B, industry ▶ Can be assembled into blocks ▶ single valve ▶ Manual override: with detent ▶ single solenoid



00110065

Version	Poppet valve
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Ambient temperature min./max.	-10°C / +50°C
Medium temperature min./max.	-10°C / +50°C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	1 mg/m³ - 5 mg/m³
Protection class with connection	See table below
Compatibility index	See table below
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Die cast zinc
Seals	Fluorocarbon

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“.
- If the valves are blocked, the permissible ambient temperature drops to 35°C with a 100% duty cycle.

Operational voltage		Voltage tolerance		Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	DC	AC 50 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	-	-	-	-
24 V	-	-10% / +10%	-	2.6	-	-	-	-
-	110 V	-	-10% / +10%	-	11	9.4	8.5	6.9
-	230 V	-	-10% / +10%	-	12.6	10.7	9.7	7.9
-	24 V	-	-10% / +10%	-	12	9.9	8.9	7.3

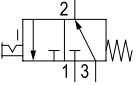

		MO	Compressed air connection			Operating voltage		Power consumption	Holding power	Part No.
			Input	Output	Exhaust	DC	AC 50 Hz	DC	AC 50 Hz	
								[W]	[VA]	
	NC		M5	M5	M5	24 V	-	4.8	-	0820019006
						24 V	-	2.6	-	0820019014
						-	110 V	-	8.5	0820019003
						-	230 V	-	9.7	0820019001
						-	24 V	-	8.9	0820019005
	NC		M5	M5	M5	-	-	-	-	0820019990
	NO		M5	M5	M5	24 V	-	4.8	-	0820019115
						-	110 V	-	8.5	0820019112
						-	230 V	-	9.7	0820019110
						-	24 V	-	8.9	0820019114

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 DO22

► Qn = 40 - 52 l/min ► pipe connection ► Compressed air connection output: M5 ► Electr. connection: Form B, industry ► Can be assembled into blocks ► single valve ► Manual override: with detent ► single solenoid

		MO	Compressed air connection			Operating voltage		Power consumption	Holding power	Part No.
			Input	Output	Exhaust	DC	AC 50 Hz	DC	AC 50 Hz	
								[W]	[VA]	
	NO		M5	M5	M5	-	-	-	-	0820019991

Part No.	Holding power	Switch-on power	Switch-on power	Flow rate value		Nominal resistance	Working pressure min./max.	Switch-on time	Switch-off time	Compatibility index	Protection class
	AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn 1►2	Qn 2►3						
	[VA]	[VA]	[VA]	[l/min]		[Ω]	[bar]	[ms]	[ms]		
0820019006	-	-	-			121	0 / 10			14	
0820019014	-	-	-			223	2 / 7			13	
0820019003	6.9	11	9.4	40	52	615	0 / 10	22	20	14	IP65
0820019001	7.9	12.6	10.7			2450	0 / 10			14	
0820019005	7.3	12	9.9			26	0 / 10			14	
0820019990	-	-	-	40	52	-	0 / 10	22	20	14	-
0820019115	-	-	-			121					
0820019112	6.9	11	9.4	40	52	615	0 / 10	22	20	14	IP65
0820019110	7.9	12.6	10.7			2450					
0820019114	7.3	12	9.9			-					
0820019991	-	-	-	40	52	-	0 / 10	22	20	14	-

Part No.	Weight	Note
	[kg]	
0820019006		-
0820019014		2)
0820019003	0.134	-
0820019001		-
0820019005		-
0820019990	0.08	1); 3)
0820019115		
0820019112	0.134	-
0820019110		
0820019114		
0820019991	0.08	1); 3)

MO = Manual override

1) Basic valve without coil

2) Low power consumption

3) suitable for ATEX

Protected against polarity reversal

Compressed air connection: according to ISO 16030

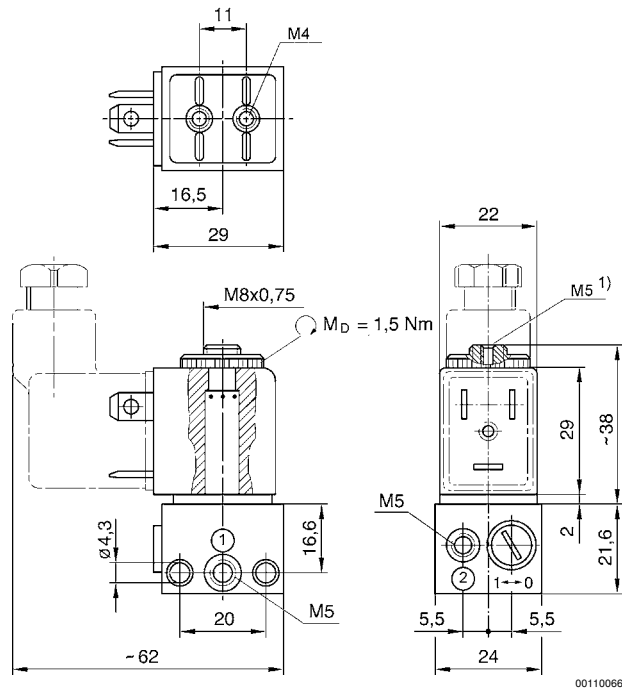
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves ▶ Electrically operated

3/2-directional valve, Series DO22

▶ $Q_n = 40 - 52 \text{ l/min}$ ▶ pipe connection ▶ Compressed air connection output: M5 ▶ Electr. connection: Form B, industry ▶ Can be assembled into blocks ▶ single valve ▶ Manual override: with detent ▶ single solenoid

Dimensions



1) exhaust open

3/2-directional valve, Series DO22

► Qn = 48 - 56 l/min ► plate connection ► Electr. connection: Plug, ISO 6952, form B ► Manual override: with detent, without



00110071

Version	Poppet valve
Sealing principle	Soft sealing
Mounting on manifold strip	PRS strip
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow 1 ► 2	48 l/min
Nominal flow 2 ► 3	56 l/min
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Mounting screw	M3
Materials:	
Housing	Plastic
Seals	Fluorocautchouc

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
24 V	-10% / +10%	2.6
24 V	-10% / +10%	4.8

	MO	Operating voltage	Power consumption	Working pressure min./max.	Compatibility index	Note	Part No.
		DC	DC				
			[W]	[bar]			
		24 V	2.6 4.8	2 / 7 0 / 10	13 14	2) -	0820046005 0820046002
		-	-	0 / 10	14	1); 1); 3)	0820046980
		24 V	4.8	0 / 10	14	-	0820046101

MO = Manual override

1) Basic valve without coil

2) Low power consumption

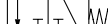
3) suitable for ATEX

Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves ► Electrically operated

3/2-directional valve, Series DO22

► Qn = 48 - 56 l/min ► plate connection ► Electr. connection: Plug, ISO 6952, form B ► Manual override: with detent, without

	MO	Operating voltage	Power consumption	Working pressure min./max.	Compatibility index	Note	Part No.
		DC	DC				
			[W]	[bar]			
	-	-	-	0 / 10	14	1); 3)	0820046990 0820046991

MO = Manual override

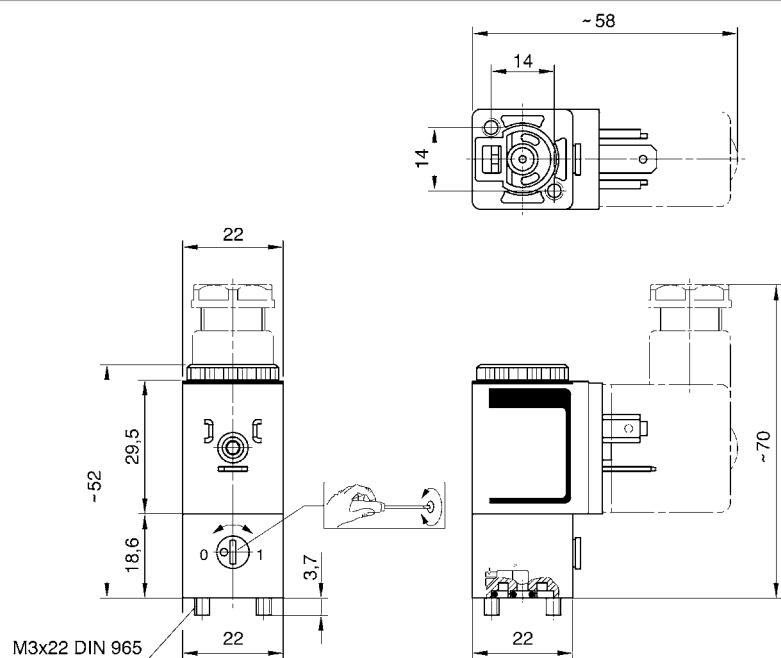
1) Basic valve without coil

- 1) Basic valve without coil
- 2) Low power consumption

3) suitable for ATEX

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

Dimensions



00110072

3/2-directional valve, Series DO30

► Qn = 54 - 105 l/min ► Pilot valve width: 30 mm ► Plate valve with pipe connection ► Compressed air connection output: CNOMO ► Electr. connection: Plug, ISO 4400, form A ► Manual override: without detent, with detent



00110091

Standards	CNOMO / NFE 49-003-1
Version	Poppet valve
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	0 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow 1 ► 2	See table below
Nominal flow 2 ► 3	See table below
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Mounting screw	M4
Weight	See table below
Materials:	
Housing	Plastic
Seals	Fluorocautchouc

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.

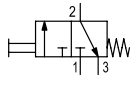

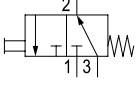

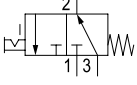

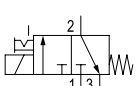

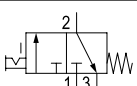

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	-	-	-10% / +10%	-	-	11.5	-	8	-
24 V	-	-	-10% / +10%	-	-	4.5	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2.7	-	-	-	-
-	-	110 V	-	-	-10% / +10%	-	-	9.5	-	5.6
-	230 V	-	-	-10% / +10%	-	-	12.6	-	9.1	-

	MO	Compressed air connection			Operating voltage			Power consumption	Holding power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		CNOMO	CNOMO	M5	-	24 V	-	-	8	0820019527
					24 V	-	-	4.5	-	0820019526
					24 V	-	-	2.7	-	0820019529
					-	-	110 V	-	-	0820019528
					-	230 V	-	-	9.1	0820019525

Directional valves ► Electrically operated

3/2-directional valve, Series DO30

► Qn = 54 - 105 l/min ► Pilot valve width: 30 mm ► Plate valve with pipe connection ► Compressed air connection output: CNOMO ► Electr. connection: Plug, ISO 4400, form A ► Manual override: without detent, with detent

	MO	Compressed air connection			Operating voltage			Power consumption	Holding power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		CNOMO	CNOMO	M5	-	-	-	-	-	0820019985 0820019986
		M5	CNOMO	CNOMO	-	-	-	-	-	0820019987
		M5	CNOMO	CNOMO	-	-	-	-	-	0820019982
		CNOMO	CNOMO	M5	-	24 V	-	-	8	0820019502
					24 V	-	-	4.5	-	0820019501
					24 V	-	-	2.7	-	0820019504
					-	-	110 V	-	-	0820019503
					-	230 V	-	-	9.1	0820019500
		CNOMO	CNOMO	M5	-	-	-	-	-	0820019980 0820019981

Part No.	Holding power	Switch-on power	Switch-on power	Flow rate value		Compatibility index	Weight	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn 1►2	Qn 2►3			
	[VA]	[VA]	[VA]	[l/min]			[kg]	
0820019527	-	11.5	-	68	90	15	0.16	-
0820019526	-	-	-	68	90	15		-
0820019529	-	-	-	54	80	14		3)
0820019528	5.6	-	9.5	68	90	15		-
0820019525	-	12.6	-	68	90	15		-
0820019985	-	-	-	68	90	15	0.06	1); 2); 4)
0820019986	-	-	-	54	80	14	0.07	2); 3); 4)
0820019987	-	-	-	72	105	15	0.08	2); 4)
0820019982	-	-	-	72	105	15	0.06	2); 4)
0820019502	-	11.5	-	65	80	15	0.16	-
0820019501	-	-	-	65		15		-
0820019504	-	-	-	54		14		3)
0820019503	5.6	-	9.5	65		15		-
0820019500	-	12.6	-	65		15		-
0820019980	-	-	-	65	80	15	0.06	1); 2); 4)
0820019981	-	-	-	54		14		2); 3); 4)

MO = Manual override

1) pilot valve without coil

2) Basic valve without coil

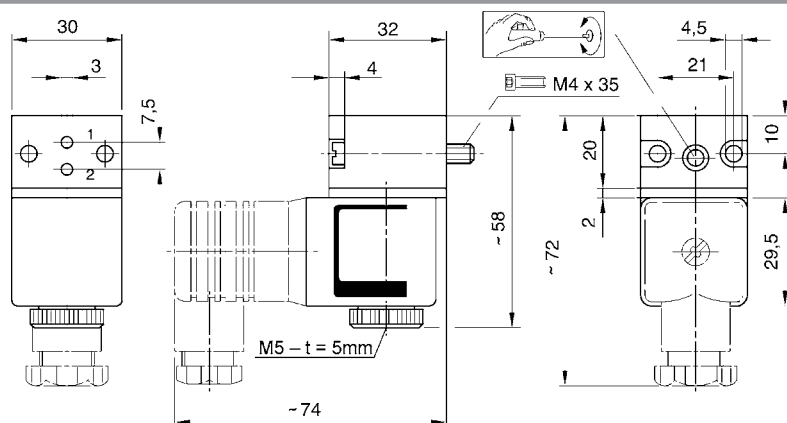
3) Low power consumption

4) suitable for ATEX

Nominal flow Qn at 6 bar and Δp = 1 bar

3/2-directional valve, Series DO30

► $Q_n = 54 - 105 \text{ l/min}$ ► Pilot valve width: 30 mm ► Plate valve with pipe connection ► Compressed air connection output: CNOMO ► Electr. connection: Plug, ISO 4400, form A ► Manual override: without detent, with detent

Dimensions


00110092

t = depth

Directional valves ► Electrically operated

3/2-directional valve, Series DO22

► Qn = 55 - 88 l/min ► pipe connection ► Compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 6952, form B ► Manual override: with detent, without



00110089

Version	Poppet valve
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow 1 ► 2	See table below
Nominal flow 2 ► 3	See table below
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Mounting screw	M4
Weight	0.11 kg
Materials:	
Housing	Polyamide
Seals	Fluorocautchouc

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%	-	-	11	-	8.5	-
24 V	-	-	-10% / +10%	-	-	4.8	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2.6	-	-	-	-
-	-	110 V	-	-	-10% / +10%	-	-	9.4	-	6.9
-	230 V	-	-	-10% / +10%	-	-	12.6	-	9.7	-

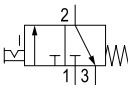

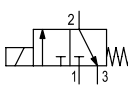

	MO	Compressed air connection			Operating voltage			Power consumption	Holding power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		G 1/8	G 1/8	M5	-	24 V	-	-	8.5	0820019312
					24 V	-	-	4.8	-	0820019311
					24 V	-	-	2.6	-	0820019314
					-	-	110 V	-	-	0820019313
					-	230 V	-	-	9.7	0820019310
		M5	G 1/8	G 1/8	24 V	-	-	4.8	-	0820019361

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 DO22

► Qn = 55 - 88 l/min ► pipe connection ► Compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 6952, form B ► Manual override: with detent, without

	MO	Compressed air connection			Operating voltage			Power consumption	Holding power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		G 1/8	G 1/8	M5	-	-	-	-	-	0820019976
										0820019978
	-	G 1/8	G 1/8	M5	-	24 V	-	-	8.5	0820019302
					-	24 V	-	-	8.5	0820019327
					24 V	-	-	4.8	-	0820019301
					24 V	-	-	2.6	-	0820019304
					-	-	110 V	-	-	0820019303
					-	230 V	-	-	9.7	0820019300
	-	G 1/8	G 1/8	M5	-	-	-	-	-	0820019975

Part No.	Holding power	Switch-on power	Switch-on power	Flow rate value		Working pressure min./max.	Compatibility index	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn 1►2	Qn 2►3			
	[VA]	[VA]	[VA]	[l/min]		[bar]		
0820019312	-	11	-	72	88	0 / 7	14	-
0820019311	-	-	-	72	88		14	-
0820019314	-	-	-	55	80		13	2)
0820019313	6.9	-	9.4	72	88		14	-
0820019310	-	12.6	-	72	88		14	-
0820019361	-	-	-	82	57	0 / 7	14	-
0820019976	-	-	-	72	88	0 / 7	14	1); 3)
0820019978	-	-	-	55	80	0 / 10		
0820019302	-	11	-	72	88	0 / 7	14	-
0820019327	-	11	-	55	80	0 / 10	14	-
0820019301	-	-	-	72	88	0 / 7	14	-
0820019304	-	-	-	55	80	0 / 7	13	2)
0820019303	6.9	-	9.4	72	88	0 / 7	14	-
0820019300	-	12.6	-	72	88	0 / 7	14	-
0820019975	-	-	-	72	88	0 / 7	14	1); 3)

MO = Manual override

1) Basic valve without coil

2) Low power consumption

3) suitable for ATEX

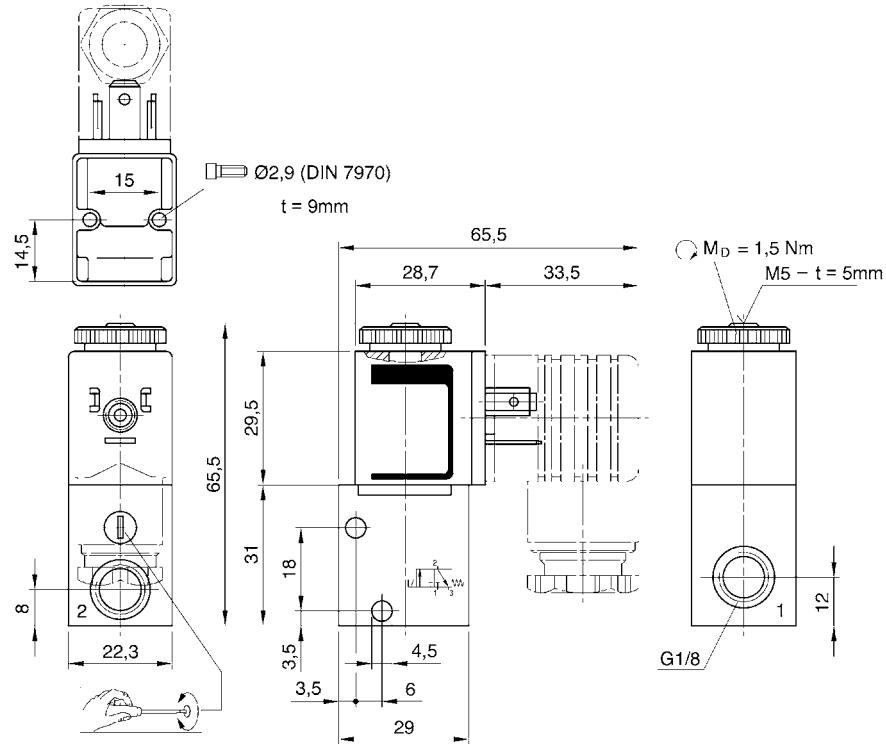
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves ▶ Electrically operated

3/2-directional valve, Series DO22

▶ $Q_n = 55 - 88 \text{ l/min}$ ▶ pipe connection ▶ Compressed air connection output: G 1/8 ▶ Electr. connection: Plug, ISO 6952, form B ▶ Manual override: with detent, without

Dimensions



00110090

t = depth

3/2-directional valve, Series DO22

► Qn = 61 - 77 l/min ► Plate valve with pipe connection ► Electr. connection: Plug, ISO 6952, form B ► Manual override: with detent, without



00110071

Version	Poppet valve
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow 1 ► 2	See table below
Nominal flow 2 ► 3	See table below
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Mounting screw	M3
Weight	See table below
Materials:	
Housing	Plastic
Seals	Fluorocautchouc

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%	-	-	4.8	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2.6	-	-	-	-
-	24 V	-	-	-10% / +10%	-	-	12	9.9	8.5	7.3
-	230 V	-	-	-10% / +10%	-	-	12.6	-	9.7	-
-	-	110 V	-	-	-10% / +10%	-	-	9.4	-	6.9

	MO	Compressed air connection		Operating voltage			Power consumption	Holding power	Holding power		Part No.
		Input	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	
							[W]	[VA]	[VA]	[VA]	
		-	M5	24 V	-	-	4.8	-	-	-	0820019641
				24 V	-	-	2.6	-	-	-	0820019644
				-	24 V	-	-	8.5	7.3	12	0820019642
				-	230 V	-	-	9.7	-	12.6	0820019640
		-	M5	-	-	-	-	-	-	-	0820019968

Directional valves ► Electrically operated

3/2-directional valve, Series DO22

► Qn = 61 - 77 l/min ► Plate valve with pipe connection ► Electr. connection: Plug, ISO 6952, form B ► Manual override: with detent, without

	MO	Compressed air connection		Operating voltage			Power consumption	Hold-ing power	Hold-ing power		Part No.
		Input	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz		
							[W]	[VA]	[VA]	[VA]	
		M5	-	24 V	-	-	4.8	-	-	-	0820019691 0820019961
	-	-	M5	24 V	-	110 V	4.8	-	-	-	0820019631 0820019633
	-	-	M5	-	-	-	-	-	-	-	0820019967
	-	M5	-	24 V	-	-	4.8	-	-	-	0820019681
		-	M5	24 V	-	-	4.8	-	-	-	0820019616
		-	M5	-	-	-	-	-	-	-	0820019965

Part No.	Switch-on power	Flow rate value		Working pressure min./max.	Compatibility index	Weight	Note
	AC 60 Hz	Qn 1►2	Qn 2►3				
	[VA]	[l/min]		[bar]		[kg]	
0820019641	-	61	74	0 / 10	14	0.096	-
0820019644	-			0 / 7	13		3)
0820019642	9.9			0 / 10	14		-
0820019640	-			0 / 10	14		-
0820019968	-	61	74	0 / 10	14	0.041	1); 2); 4)
0820019691	-	61	74	0 / 10	14	0.096	-
0820019961	-	61	74	0 / 10	14	0.041	1); 2); 4)
0820019631	-	61	74	0 / 10	14	0.096	-
0820019633	9.4	61	74	0 / 10	14	0.096	-
0820019967	-	61	74	0 / 10	14	0.041	1); 2); 4)
0820019681	-	61	74	0 / 10	14	0.096	-
0820019616	-	75	77	0 / 7	14	0.096	-
0820019965	-	75	77	0 / 7	14	0.041	1); 2); 4)

MO = Manual override

1) cannot be combined with coil with low power consumption

2) Basic valve without coil

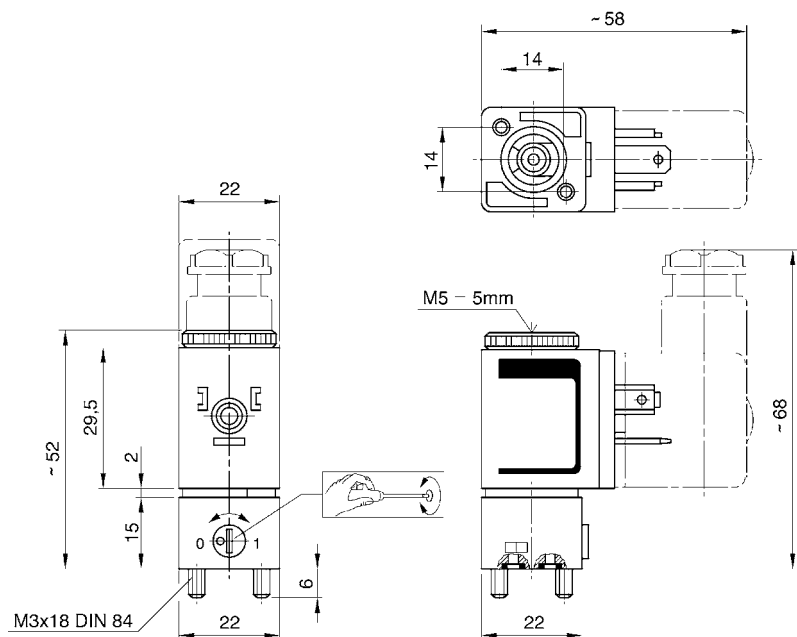
3) Low power consumption

4) suitable for ATEX

Nominal flow Qn at 6 bar and Δp = 1 bar

3/2-directional valve, Series DO22

► $Q_n = 61 - 77 \text{ l/min}$ ► Plate valve with pipe connection ► Electr. connection: Plug, ISO 6952, form B ► Manual override: with detent, without

Dimensions


00110083

Directional valves ► Electrically operated

3/2-directional valve, Series DO35

► NO ► Qn = 110 - 130 l/min ► pipe connection ► Compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 4400, form A ► Manual override: with detent



17244

Version	Poppet valve
Sealing principle	Soft sealing
Working pressure min./max.	0 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow 2 ► 3	120 l/min
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	M5
Materials:	
Seals	Fluorocautchouc

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 50 Hz
						W	VA	VA
24 V	-	-	-10% / +10%	-	-	8	-	-
-	24 V	-	-	-10% / +10%	-	-	-	-
-	-	110 V	-	-	-10% / +10%	-	-	-
-	230 V	-	-	-10% / +10%	-	-	21	14

	MO	Compressed air connection			Operating voltage			Power consumption	Holding power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		G 1/8	G 1/8	G 1/8	24 V	-	-	8	-	0820005201
					-	24 V	-	-	-	0820005203
					-	-	110 V	-	-	0820005202
					-	230 V	-	-	14	0820005200
					24 V	-	-	8	-	0820005251
					-	24 V	-	-	-	0820005253
					-	-	110 V	-	-	0820005252
					-	230 V	-	-	14	0820005250

3/2-directional valve, Series DO35

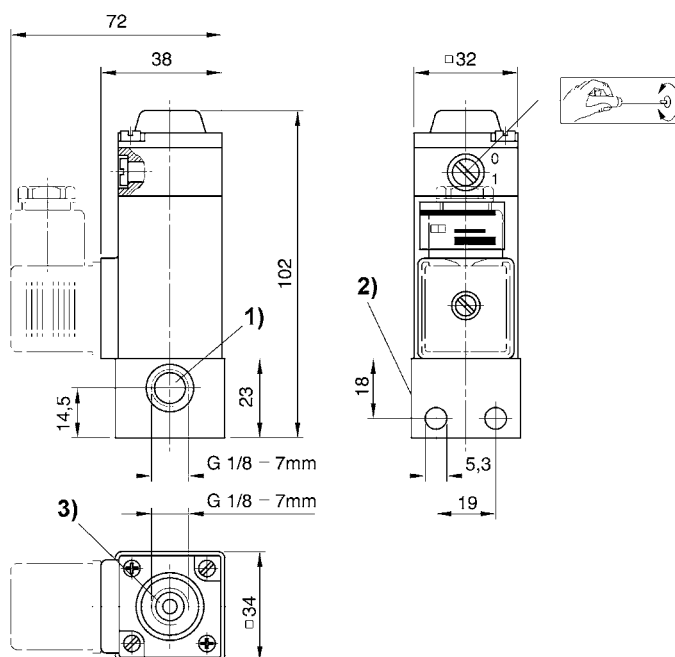
► NO ► Qn = 110 - 130 l/min ► pipe connection ► Compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 4400, form A ► Manual override: with detent

Part No.	Switch-on power	Flow rate value	Note
	AC 50 Hz	Qn 1►2	
	[VA]	[l/min]	
0820005201	-		1)
0820005203	-		1)
0820005202	-		1)
0820005200	21	110	1)
0820005251	-		2)
0820005253	-		2)
0820005252	-		2)
0820005250	21		2)

MO = Manual override

1) single connecting valve

2) manifold valve

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


00110104

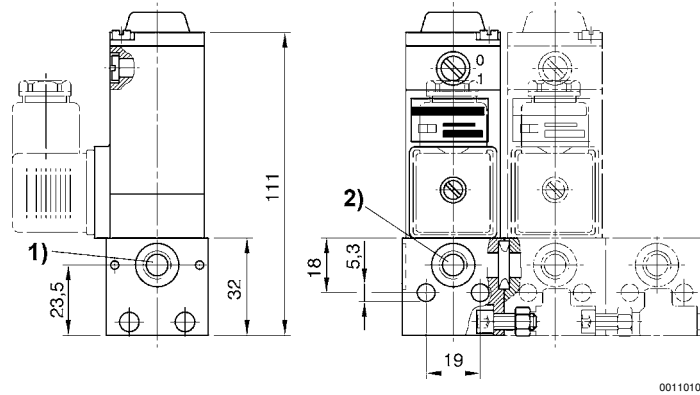
- 1) Port 1
2) Port 2
3) Port 3

Directional valves ► Electrically operated

3/2-directional valve, Series DO35

► NO ► $Q_n = 110 - 130 \text{ l/min}$ ► pipe connection ► Compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 4400, form A ► Manual override: with detent

manifold valve



1) Port 1

2) Port 2

3/2-directional valve, Series DO35

► NC ► Qn = 130 - 140 l/min ► pipe connection ► Compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 4400, form A ► Manual override: with detent



00110100

Version	Poppet valve
Sealing principle	Soft sealing
Working pressure min./max.	0 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow 2 ► 3	120 l/min
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	M5

Materials:

Seals

Fluorocautchouc

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 50 Hz
						W	VA	VA
24 V	-	-	-10% / +10%	-	-	8	-	-
-	24 V	-	-	-10% / +10%	-	-	21	14
-	-	110 V	-	-	-10% / +10%	-	21	14
-	230 V	-	-	-10% / +10%	-	-	21	14

	MO	Compressed air connection			Operating voltage			Power consumption	Holding power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		G 1/8	G 1/8	G 1/8	24 V	-	-	8	-	0820005101
					-	24 V	-	-	14	0820005103
					-	-	110 V	-	14	0820005102
					-	230 V	-	-	14	0820005100
					24 V	-	-	8	-	0820005151
					-	24 V	-	-	14	0820005153
					-	-	110 V	-	14	0820005152
					-	230 V	-	-	14	0820005150

Directional valves ► Electrically operated

3/2-directional valve, Series DO35

► NC ► Qn = 130 - 140 l/min ► pipe connection ► Compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 4400, form A ► Manual override: with detent

Part No.	Switch-on power	Flow rate value	Note
	AC 50 Hz	Qn 1►2	
	[VA]	[l/min]	
0820005101	-		1)
0820005103	21		1)
0820005102	21		1)
0820005100	21		1)
0820005151	-	140	2)
0820005153	21		2)
0820005152	21		2)
0820005150	21		2)

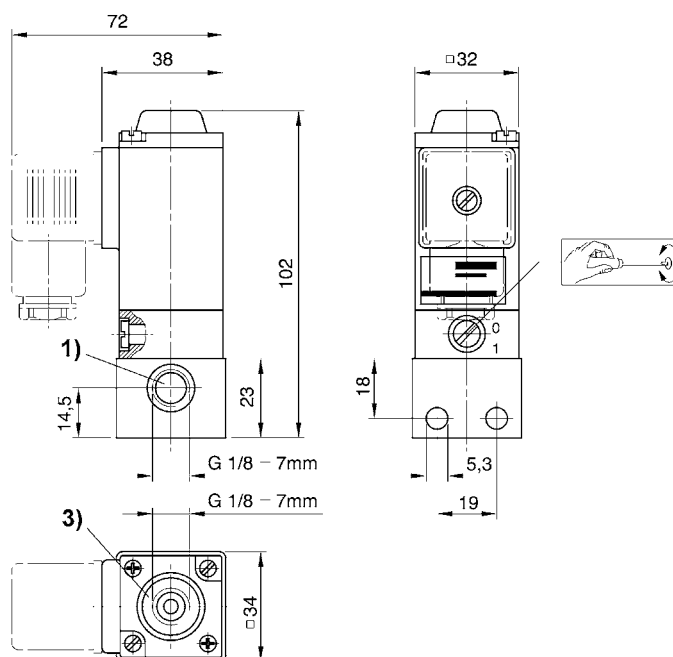
MO = Manual override

1) single connecting valve

2) manifold valve

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

single connecting valve



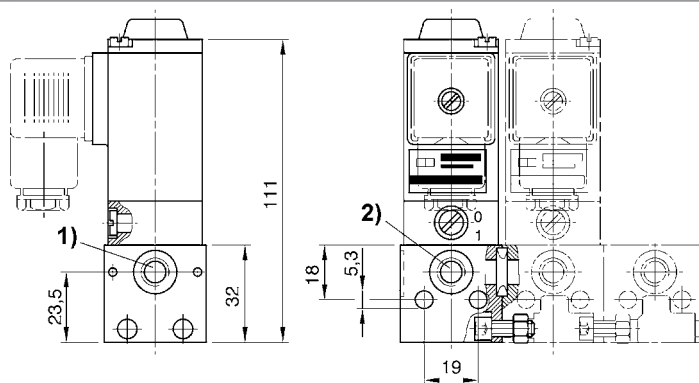
00110101

- 1) Port 1
- 3) Port 3

3/2-directional valve, Series DO35

► NC ► $Q_n = 130 - 140 \text{ l/min}$ ► pipe connection ► Compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 4400, form A ► Manual override: with detent

manifold valve



Scope of delivery: 2 screws M5x12, 2 nuts M5 DIN 934, 1 O-ring

1) Port 1

2) Port 2

Directional valves ▶ Electrically operated

Series DO 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

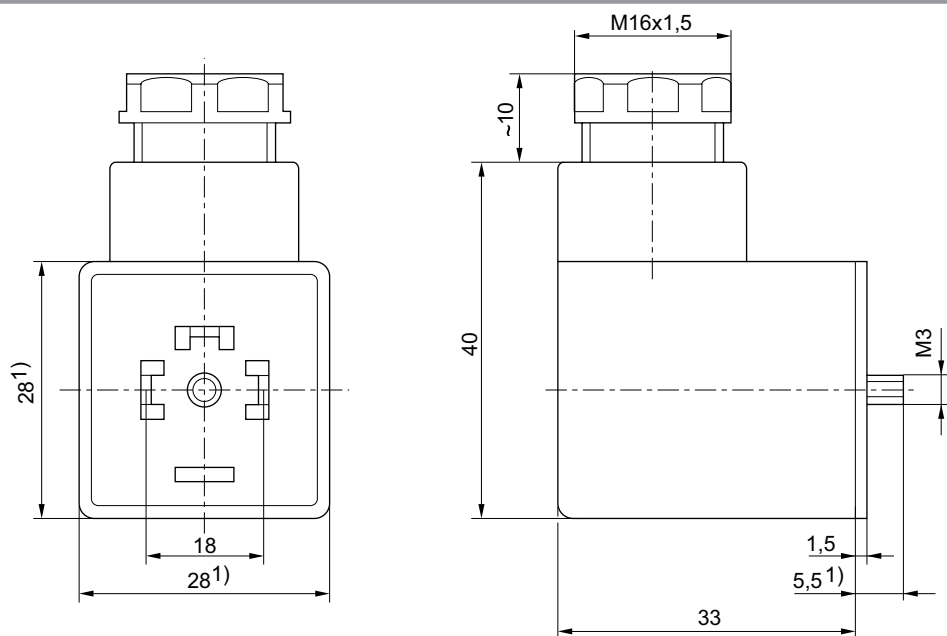
Technical Remarks

- 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 DO
Accessories
Dimensions


00110274

1) Max.

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.

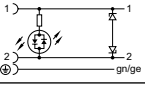
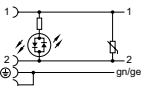
	Operational voltage max.		Protective circuit	Contact assignment	LED status display	Wire cross-section	Cable length L	Weight	Part No.
	[V AC]	[V DC]				[mm²]	[m]	[kg]	
	230	230	-	2+E	-	0.75	3	0.2	1834484160

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

Pneumatics catalog, online PDF, as of 2017-03-31, ©AVENTICS S.à r.l., subject to change

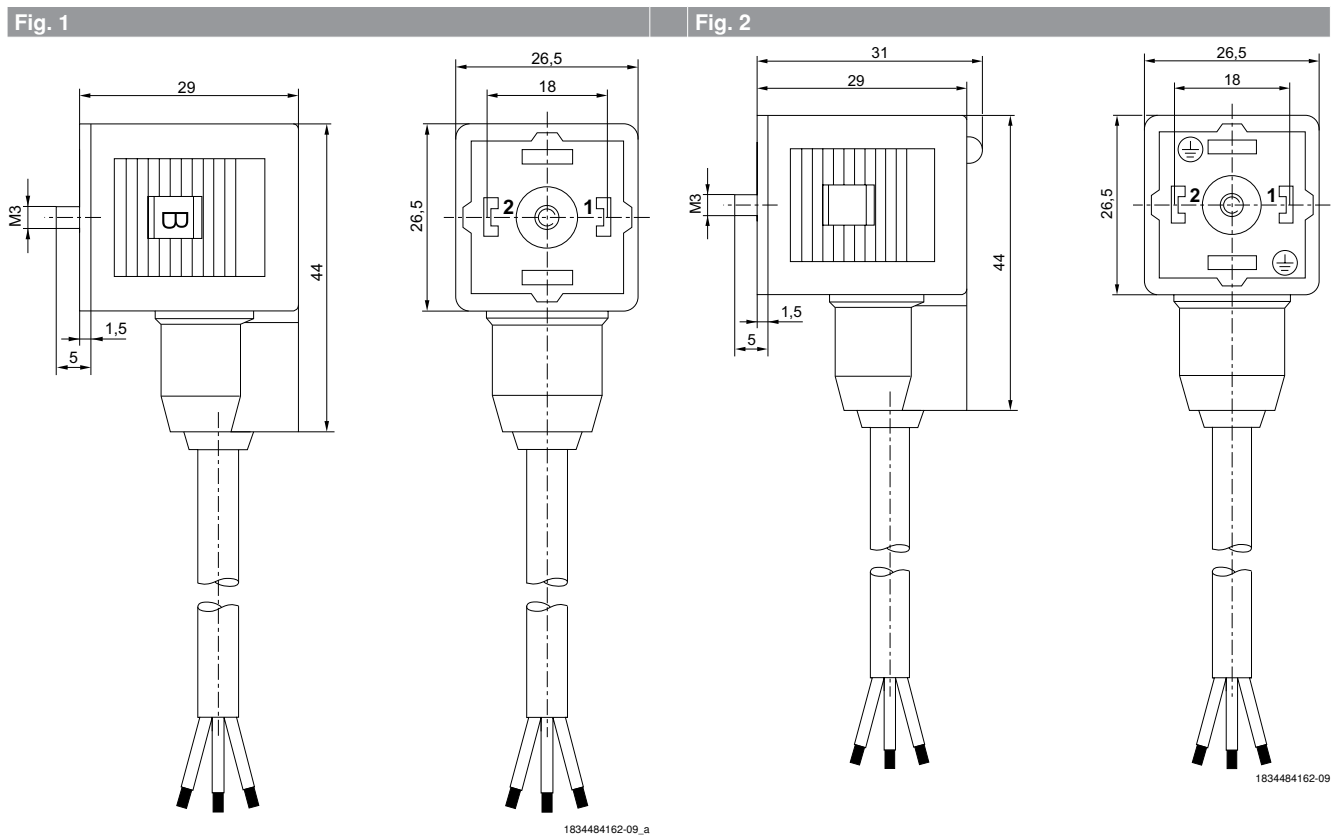
Directional valves ► Electrically operated

Series DO 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



Series DO
Accessories
Electrical connector, Series CN1
 ► 10 mm ► ISO 6952


00110264_b

Ambient temperature min./max.	-25°C / +50°C
Protection class	IP65
Cable fitting	M16x1,5
Mounting screw tightening torque	0.4 Nm

Materials:	
Housing	Polyamide

Technical Remarks

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

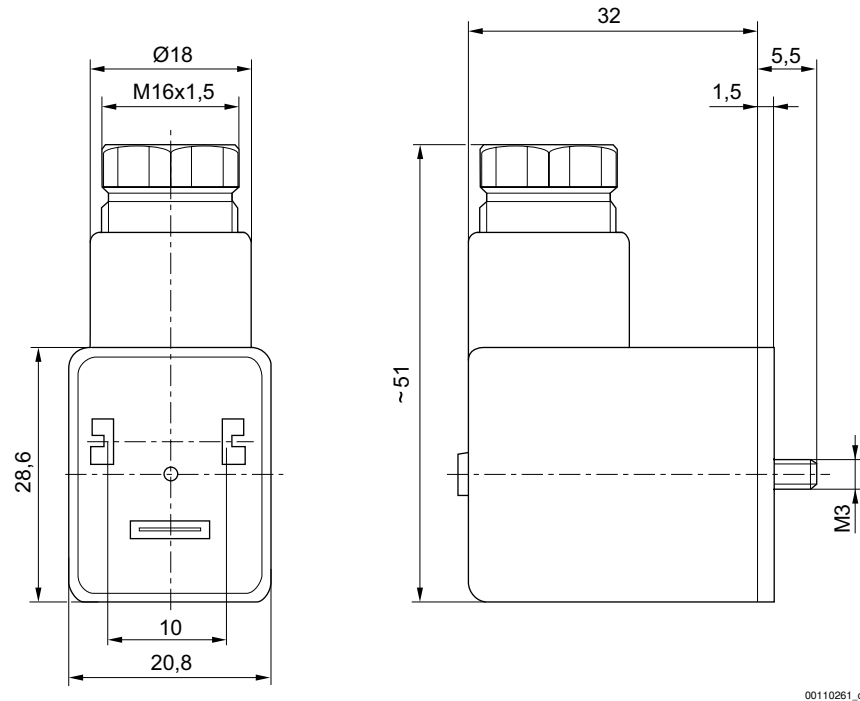
	Operational voltage		Max. current	Contact assignment	Cable exit	Protective circuit	suitable cable-Ø min./max	Part No.
	AC	DC						
	[V]	[V]	[A]				[mm]	
	-	300	10	2+E	angled 90°	-	5 / 8	1834484096
	24	-	-	2+E	angled 90°	Z-diode	6 / 8	1834484104
	110 230	-	-	2+E	angled 90°	Varistor	6 / 8	1834484105 1834484106

Part No.	number of plug options 1	Status display	LED status display	Housing color	Weight	Fig.	Note
					[kg]		
1834484096	2 positions each 180°	-	-	Black	0.02	Fig. 1	1); 3)
1834484104	2 positions each 180°	1 LED	Yellow	Transparent	0.02	Fig. 2	1); 4)
1834484105 1834484106	2 positions each 180°	2 LED	RedRed	Transparent	0.02	Fig. 2	1); 4) 2); 4)

- 1) Profile seal
 2) Flat gasket
 3) Seal: caoutchouc/butadiene caoutchouc
 4) Seal: Silicone caoutchouc

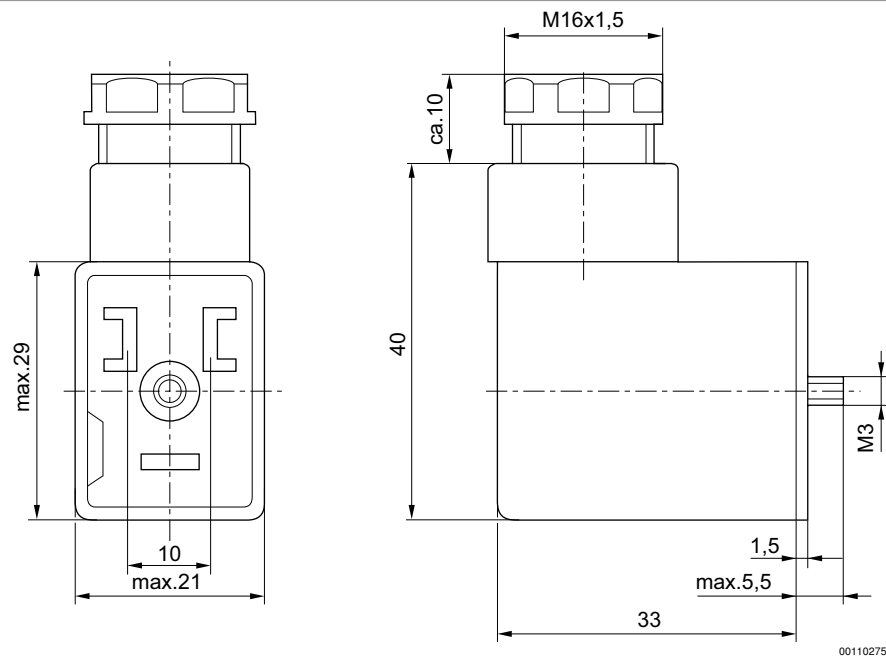
Series DO Accessories

Fig. 1



00110261_c

Fig. 2



00110275

Series DO
 Accessories

Connector with cable, Series CN1

► form B ► 10 mm



00110292_a

Ambient temperature min./max.	-20°C / +80°C
Protection class	IP67
Cable exit	angled 90°
Wire cross-section	0.75 mm²
Tightening torque for mounting screws	0.4 Nm

Materials:	
Housing color	Black
Seals	caoutchouc/butadiene caoutchouc

Technical Remarks

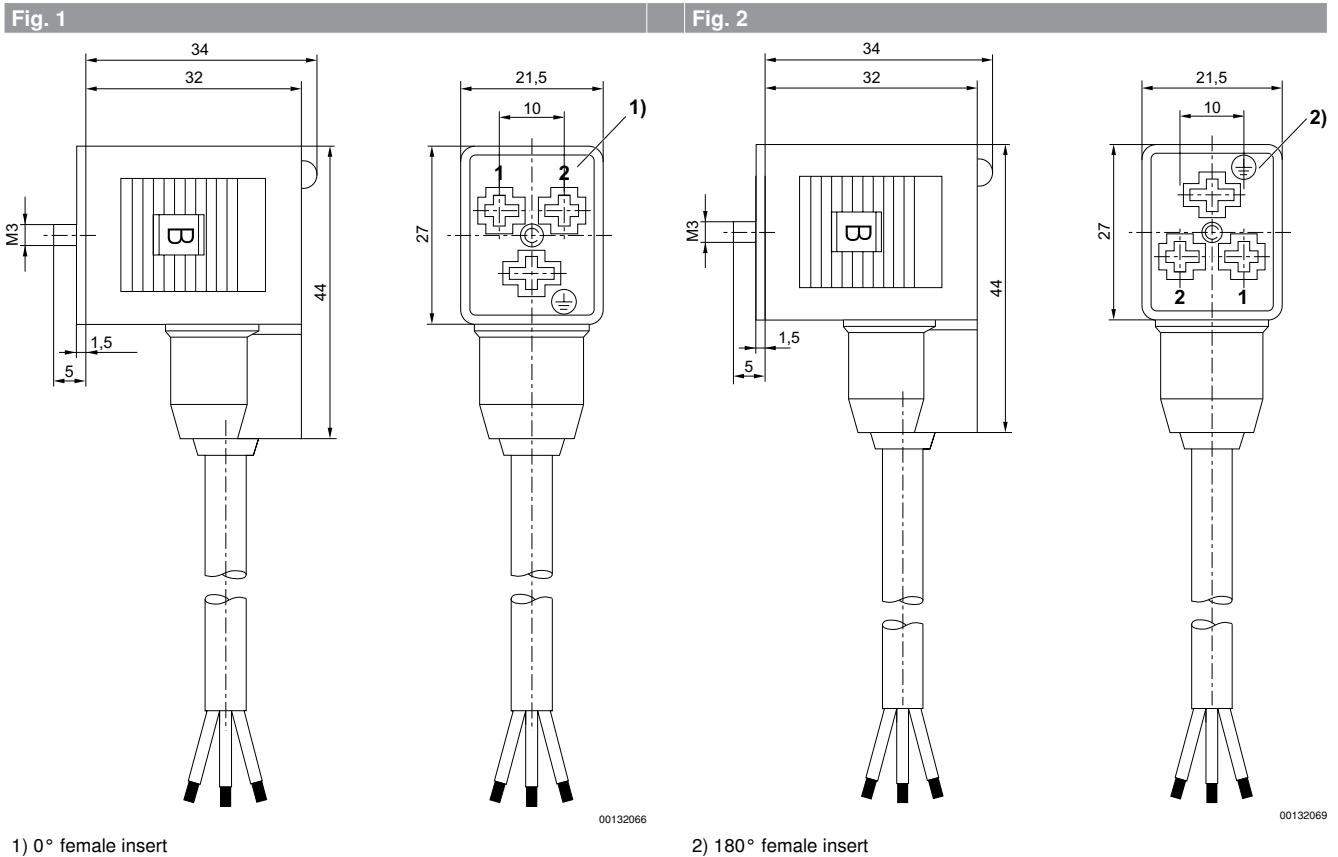
- The specified protection class is only valid in assembled and tested state.

	Operational voltage max.		Max. current	Protective circuit	Contact assignment	LED status display	Cable	Weight	Fig.	Part No.
	[V AC]	[V DC]	[A]				[m]	[kg]		
	24	-	10	Z-diode	2+E	Yellow	3	0.2	Fig. 1	1834484152
		-					3	0.2	Fig. 2	1834484153
		-					5	0.31	Fig. 1	1834484154
		24					5	0.31	Fig. 2	1834484155

Part No.	Note
1834484152	1); 2)
1834484153	1); 2)
1834484154	1); 2)
1834484155	1)
1) Scope of delivery incl. flat gasket 2) with cable	

Directional valves ► Electrically operated

Series DO Accessories



Electrical connector, Series CN1 ► 8 mm ► ISO 15217 ► form C



P894_220

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

-40°C / +90°C
IP65
0.4 Nm

Materials:
Housing

Polyamide

Technical Remarks

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

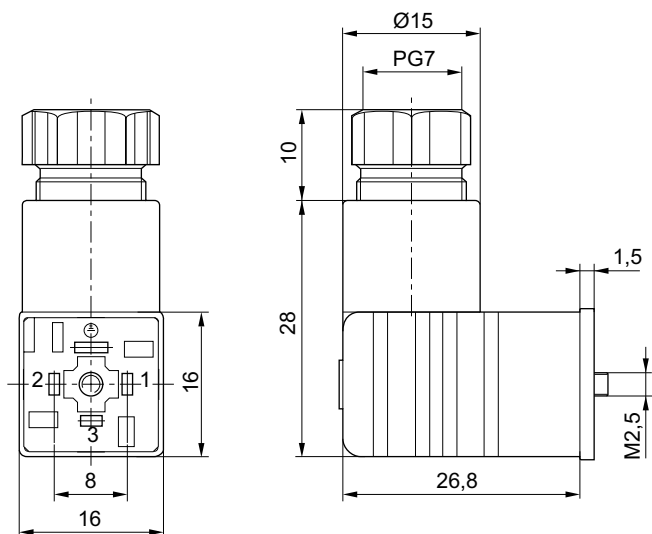
Series DO
Accessories

	Cable fitting	Operational voltage	Max. current	Contact assignment	Cable exit	Protective circuit	suitable cable-Ø min./max	Part No.
		AC						
		[V]	[A]				[mm]	
	M12x1,5 PG 7	250	6	2+E	angled 90°	-	4 / 6	1834484187 8941012202
	M12x1,5	24	-	2+E	angled 90°	Z-diode	-	4402050330

Part No.	number of plug options 1	Status display	LED status display	Housing color	Weight	Fig.	Note
					[kg]		
1834484187 8941012202	4 positions each 90°	-	-	Black	0.012	Fig. 1 Fig. 2	1); 2) 1)
4402050330	4 positions each 90°	1 LED	Green	Transparent	0.014	Fig. 3	-

1) Profile seal
2) Seal: caoutchouc/butadiene caoutchouc

Fig. 1



00110255

Directional valves ► Electrically operated

Series DO Accessories

Fig. 2

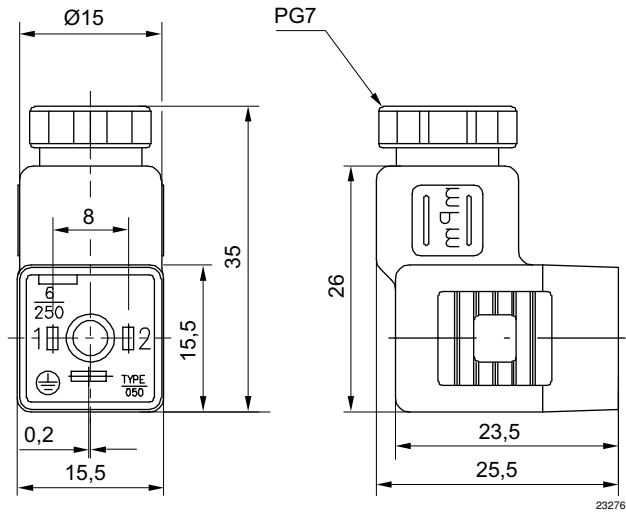
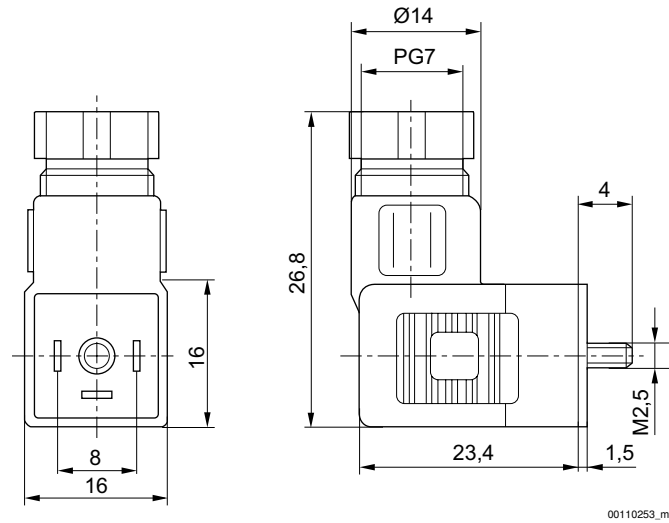


Fig. 3



Series DO
 Accessories

Connector with cable, Series CN1

► form C ► 8 mm



00119140

Ambient temperature min./max.

-20 °C / +80 °C

Protection class

IP67

Tightening torque for mounting screws

0.4 Nm

Materials:

Seals

caoutchouc/butadiene caoutchouc

Technical Remarks

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

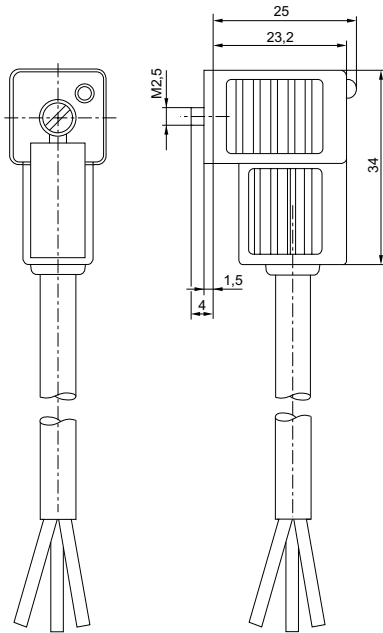
	Operational voltage max.	Max. current	Protective circuit	Contact assignment	LED status display	Cable	Weight	Fig.	Note	Part No.
	[V AC]	[A]				[m]	[kg]			
	230	6	-	2+E	-	3 3 5 5	0.183 0.183 0.308 0.308	Fig. 1 Fig. 2 Fig. 1 Fig. 2	-	1834484212 1834484213 1834484214 1834484215
	24	6	Z-diode	2+E	Yellow	3 3 5 5	0.185 0.185 0.292 0.298	Fig. 1 Fig. 2 Fig. 1 Fig. 2	1)	1834484204 1834484205 1834484206 1834484207
	230	6	Varistor	2+E	Yellow	3 3 5 5	0.171 0.194 0.297 0.285	Fig. 1 Fig. 2 Fig. 1 Fig. 2	1)	1834484208 1834484209 1834484210 1834484211

1) Scope of delivery incl. flat gasket

Directional valves ► Electrically operated

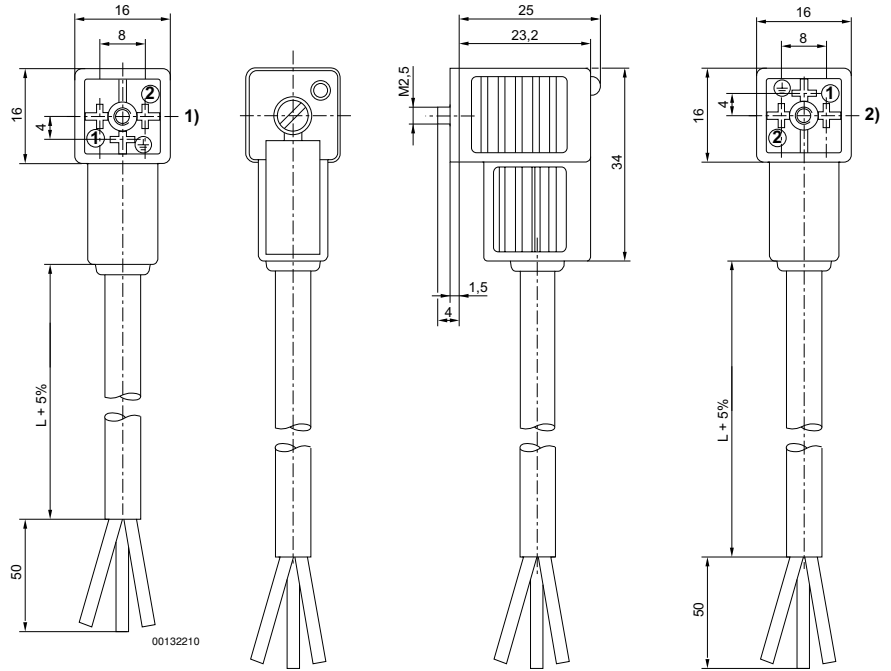
Series DO Accessories

Fig. 1



1) 0° female insert

Fig. 2



2) 180° female insert

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

Materials:
Housing

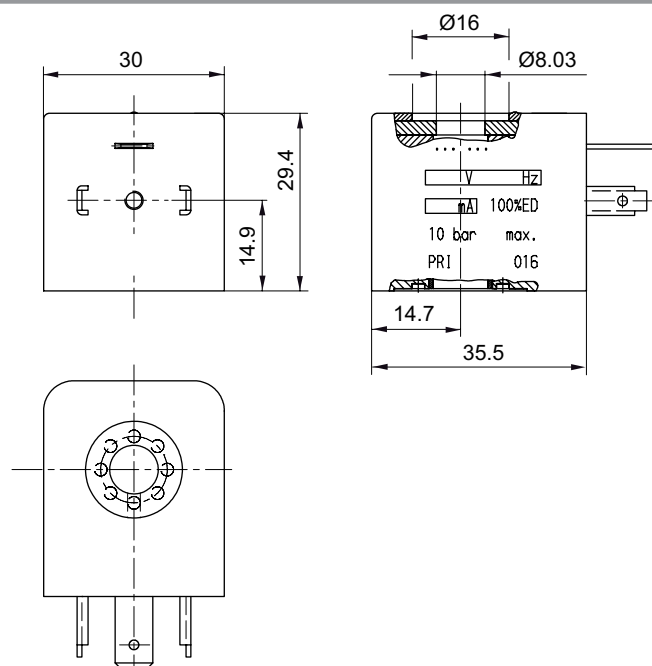
EN 175301-803, form A
Plug
-- / +50 °C
IP65
100 %

Thermoplastic elastomer

Series DO
Accessories

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%	-	-	2.7	-	-	-	-
-	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
110 V	220 V	230 V	-10% / +10%	-10% / +10%	-10% / +10%	6	11.5	12.6	8	9.1
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	11.5	10.8	8	6.4
12 V	24 V	24 V	-10% / +10%	-10% / +10%	-10% / +10%	6.2	11.5	9.5	7.4	5.2
24 V	-	-	-10% / +10%	-10% / +10%	-10% / +10%	4.4	-	-	-	-

	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	14	0.096	5428117022
	110 V	-	110 V	14	0.096	5428117072
	230 V	-	230 V	14	0.096	5428117082
	220 V	110 V	230 V	15	0.11	1824210220
	110 V	-	110 V	15	0.11	1824210221
	24 V	12 V	24 V	15	0.11	1824210222
	-	24 V	-	15	0.11	1824210223

Dimensions


00135722

Directional valves ► Electrically operated

Series DO Accessories

Coil, Series CO1

► form B ► Coil width 22 mm



00135726

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

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

Materials:
Housing

Thermoplastic elastomer

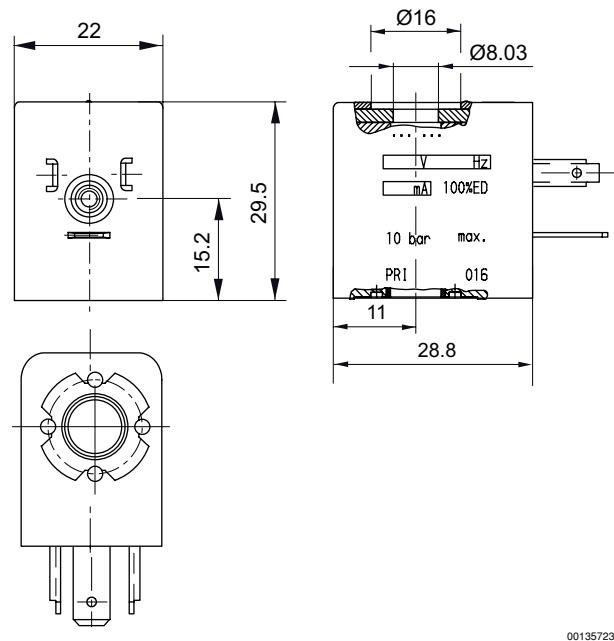
Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-10% / +10%	-10% / +10%	2.6	-	-	-	-
110 V	220 V	230 V	-10% / +10%	-10% / +10%	-10% / +10%	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

	Operational voltage			Compatibility index	Weight	Part No.
	AC 50 Hz	DC	AC 60 Hz			
					[kg]	
	-	24 V	-	13	0.07	1824210245
	220 V	110 V	230 V	14		1824210235
	110 V	60 V	110 V	14		1824210237
	24 V	12 V	24 V	14		1824210239
	-	48 V	-	14		1824210241
	48 V	24 V	48 V	14		1824210243

Series DO

Accessories

Dimensions



00135723

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

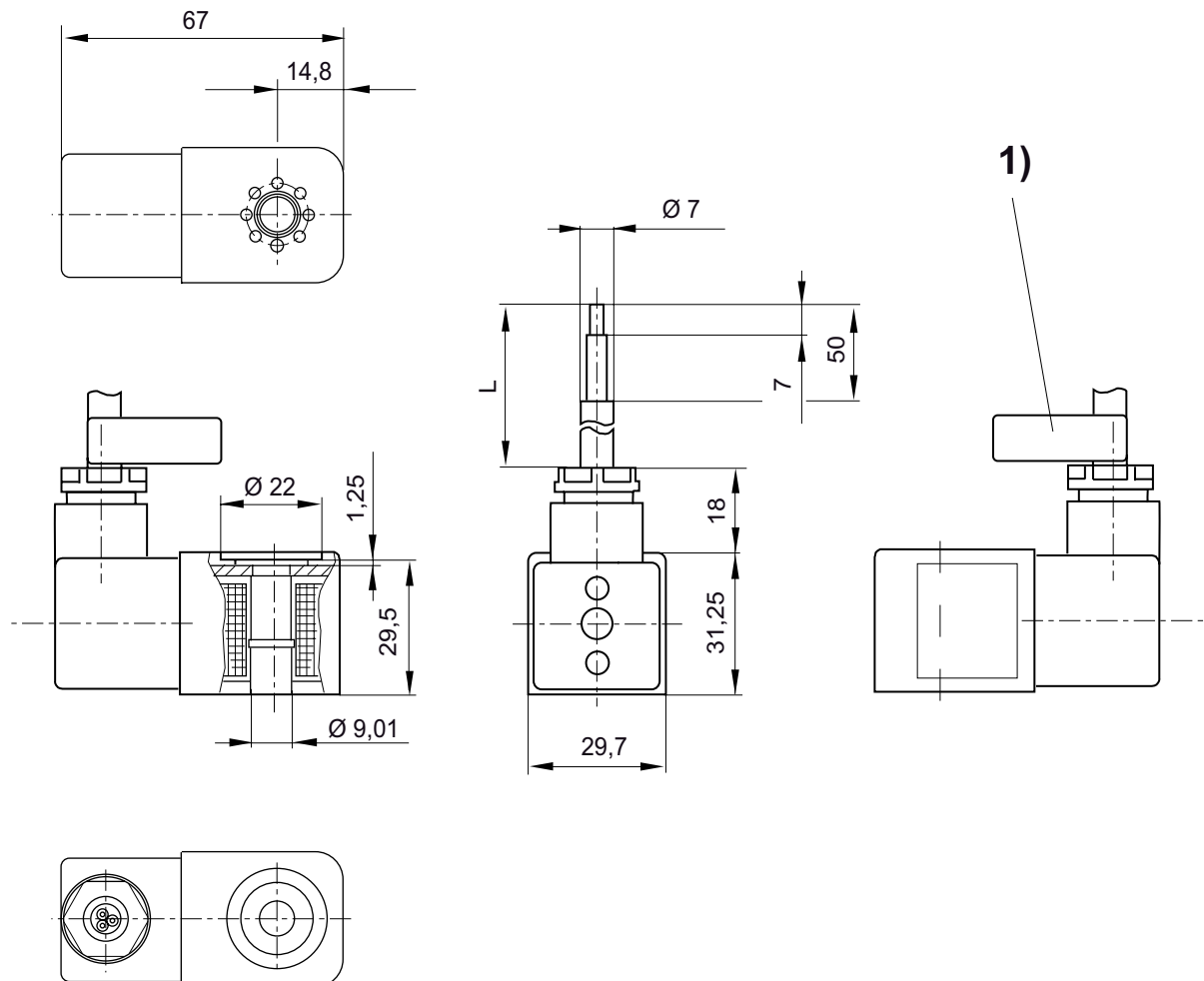
Operational voltage			Voltage tolerance		Power consumption	Switch-on power	Holding power
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz
					W	VA	VA
-	230 V	230 V	-	-10% / +10%	-	3.1	3
-	110 V	110 V	-	-10% / +10%	-	3	2.9
-	24 V	24 V	-	-10% / +10%	-	3	2.9
24 V	-	-	-10% / +10%	-	3.25	-	-

Directional valves ► Electrically operated

Series DO 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 DO
 Accessories

Manifold block, Series DO10

► Compressed air connection output: M3



00110047

Version	Single plug-in wiring
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Working pressure min./max.	0 bar / 8 bar
Grid dimension	11 mm
Mounting screw	M1.6
Direction of pneumatic port (2,4)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Materials:	
Base plate	Aluminum

Technical Remarks

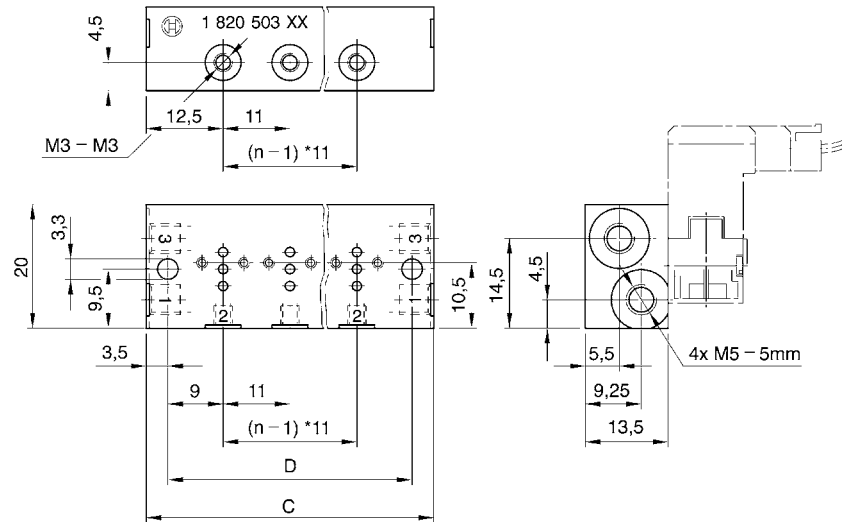
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.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

Compressed air connection			Number of valve positions	Weight	Part No.
Input	Output	Exhaust			
[1]	[2 / 4]	[3 / 5]		[kg]	
M5	M3	M5	2	0.022	1825503495
			3	0.03	1825503496
			4	0.037	1825503497
			5	0.044	1825503498
			6	0.51	1825503499
			7	0.058	1825503500
			8	0.065	1825503501
			9	0.071	1825503502
			10	0.077	1825503503
Scope of delivery incl. seal and mounting screws					

Directional valves ► Electrically operated

Series DO Accessories

Dimensions



00110050

Part No.	C	D										
1825503495	36	29										
1825503496	47	40										
1825503497	58	51										
1825503498	69	62										
1825503499	80	73										
1825503500	91	84										
1825503501	102	95										
1825503502	113	106										
1825503503	124	117										

Blanking plate, Series DO10



00110048

Ambient temperature min./max.
Medium temperature min./max.
Medium
Working pressure min./max.
Number of valve positions
Grid dimension
Mounting screw

-10°C / +50°C
-10°C / +50°C
Compressed air
0 bar / 8 bar
1
11 mm
M1.6

Materials:
Housing
Seals
Screws

Aluminum
Acrylonitrile butadiene rubber
Steel, galvanized

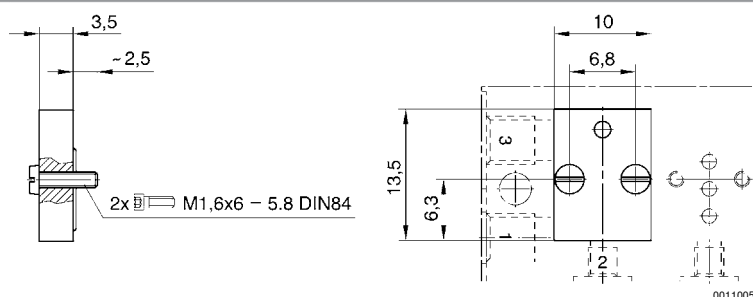
Series DO Accessories

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“.

Weight	Part No.
[kg]	
0.101	1825503504
Scope of delivery incl. seal and mounting screws	

Dimensions



Manifold block, Series DO16

► Compressed air connection output: M5



00110056

Version	Single plug-in wiring
Ambient temperature min./max.	-15°C / +50°C
Medium temperature min./max.	-15°C / +50°C
Medium	Compressed air
Working pressure min./max.	0 bar / 10 bar
Grid dimension	18 mm
Surface	anodized
Mounting screw	M3
Direction of pneumatic port (2,4)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Materials:	
Base plate	Aluminum

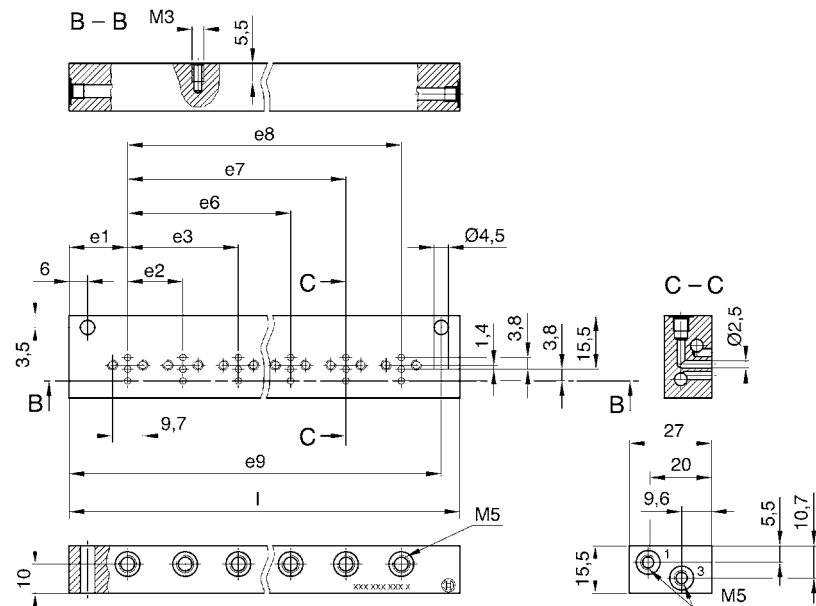
Technical Remarks

- 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 DO Accessories

Compressed air connection			Number of valve positions	Weight	Part No.
Input	Output	Exhaust			
[1]	[2 / 4]	[3 / 5]		[kg]	
M5	M5	M5	1	0.039	1825503853
			2	0.061	1825503854
			3	0.076	1825503855
			4	0.098	1825503856
			5	0.11	1825503857
			6	0.135	1825503858
			8	0.17	1825503859

Dimensions



00110063

Part No.	l	e1	e2	e3	e4	e5	e6	e7	e8	e9	Weight kg	
1825503853	38	19	–	–	–	–	–	–	–	32	0.039	
1825503854	56	19	18	–	–	–	–	–	–	50	0.061	
1825503855	74	19	18	36	–	–	–	–	–	68	0.076	
1825503856	92	19	18	36	54	–	–	–	–	86	0.098	
1825503857	110	19	18	36	54	72	–	–	–	104	0.11	
1825503858	128	19	18	36	54	72	90	–	–	122	0.135	
1825503859	164	19	18	36	54	72	90	108	126	158	0.17	

Series DO
 Accessories

Manifold block, Series DO16

► Compressed air connection output: Ø 4x1



00110056

Version	Single plug-in wiring
Ambient temperature min./max.	-15°C / +50°C
Medium temperature min./max.	-15°C / +50°C
Medium	Compressed air
Working pressure min./max.	0 bar / 10 bar
Grid dimension	18 mm
Surface	anodized
Mounting screw	M3
Direction of pneumatic port (2,4)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Materials:	
Base plate	Aluminum
push-in fitting	Brass

Technical Remarks

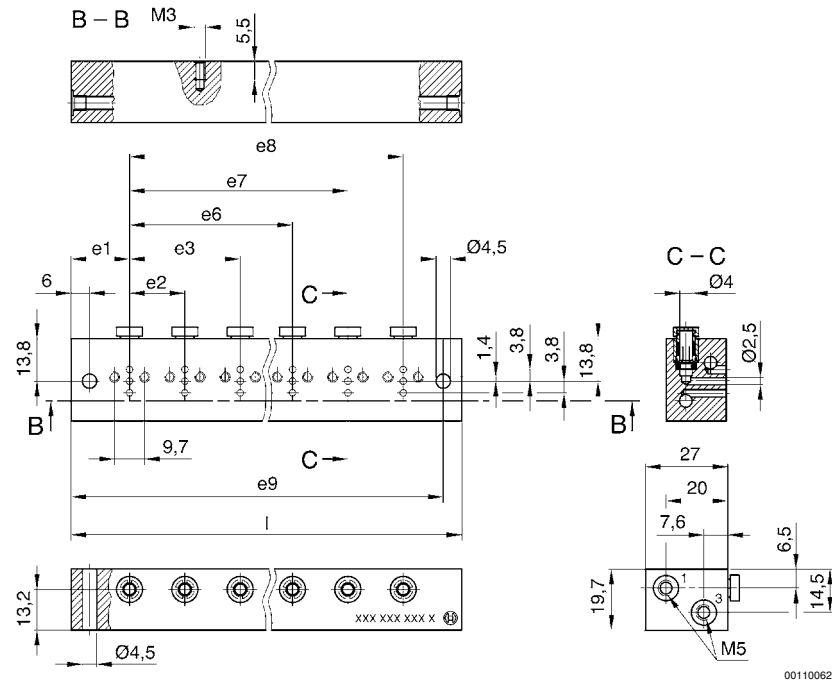
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.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

Compressed air connection			Number of valve positions	Weight	Part No.
Input	Output	Exhaust			
[1]	[2 / 4]	[3 / 5]		[kg]	
M5	Ø 4x1	M5	1	0.052	1825503860
			2	0.075	1825503861
			3	0.103	1825503862
			4	0.13	1825503863
			5	0.155	1825503864
			6	0.173	1825503865
			8	0.239	1825503866

Directional valves ► Electrically operated

Series DO Accessories

Dimensions



Part No.	I	e1	e2	e3	e4	e5	e6	e7	e8	e9	Weight kg
1825503860	38	19	—	—	—	—	—	—	—	32	0.052
1825503861	56	19	18	—	—	—	—	—	—	50	0.075
1825503862	74	19	18	36	—	—	—	—	—	68	0.103
1825503863	92	19	18	36	54	—	—	—	—	86	0.13
1825503864	110	19	18	36	54	72	—	—	—	104	0.155
1825503865	128	19	18	36	54	72	90	—	—	122	0.173
1825503866	164	19	18	36	54	72	90	108	126	158	0.239

Blanking plate, Series DO16



Ambient temperature min./max.
Medium temperature min./max.
Medium
Working pressure min./max.
Number of valve positions
Grid dimension
Mounting screw

-15°C / +50°C
-15°C / +50°C
Compressed air
0 bar / 10 bar
1
18 mm
M3

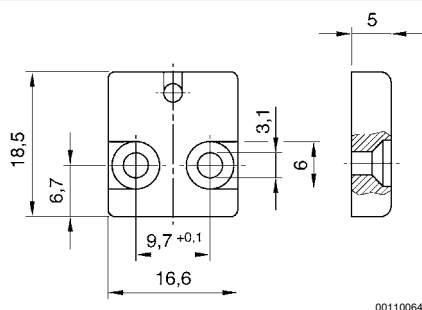
Materials:
Housing
Screws

Polyamide
Steel, galvanized

Series DO
Accessories
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“.

	Weight	Part No.
	[kg]	
	0.004	1825503390
Scope of delivery incl. seal and mounting screws		

Dimensions

Manifold block, Series DO22
► Compressed air connection output: M5


00110073

Medium
Exhaust (3,5)

Materials:
Base plate

Compressed air
With directional exhaust (3/5)

Aluminum

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“.

Part No.	Weight
	[kg]
1825503592	0.11
1825503593	0.15
1825503594	0.189
1825503595	0.189
1825503596	0.27
1825503597	0.306
1825503598	0.353
1825503599	0.389
1825503600	0.427

[illegible][illegible]

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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Series DO
Accessories

Part No.	e1	e2	e3	e4	e5	e6	e7	e8	e9	e10	e11	I
1825503595	22	23	46	69	92	–	–	–	–	–	126	136
1825503596	22	23	46	69	92	115	–	–	–	–	149	159
1825503597	22	23	46	69	92	115	138	–	–	–	173	182
1825503598	22	23	46	69	92	115	138	161	–	–	195	205
1825503599	22	23	46	69	92	115	138	161	184	–	218	228
1825503600	22	23	46	69	92	115	138	161	184	207	241	251

Part No.	Weight kg											
1825503592	0.11											
1825503593	0.15											
1825503594	0.189											
1825503595	0.189											
1825503596	0.27											
1825503597	0.306											
1825503598	0.353											
1825503599	0.389											
1825503600	0.427											

Manifold block, Series DO22

► Compressed air connection output: Ø 4



00110074

Version
Medium
Working pressure min./max.
Grid dimension
Mounting screw
Direction of pneumatic port (2,4)
Exhaust (3,5)

Materials:
Base plate
push-in fitting

Single plug-in wiring
Compressed air
0 bar / 10 bar
23 mm
M3
On the side
With directional exhaust (3/5)

Aluminum
Brass

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“.

Dimensions

[illegible]

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information
Pneumatics catalog, online PDF, as of 2017-03-31, ©AVENTICS S.à r.l., subject to change

Series DO
Accessories

Part No.	Weight kg											
1825503607	0.318											
1825503608	0.363											
1825503609	0.404											
1825503610	0.444											

Manifold block, Series DO22

► Compressed air connection output: M5



00110084

Version	Single plug-in wiring
Medium	Compressed air
Working pressure min./max.	0 bar / 10 bar
Grid dimension	23 mm
Surface	anodized
Mounting screw	M3
Direction of pneumatic port (2,4)	On the side
Exhaust (3,5)	uncollected exhaust

Materials:	
Base plate	Aluminum

Technical Remarks

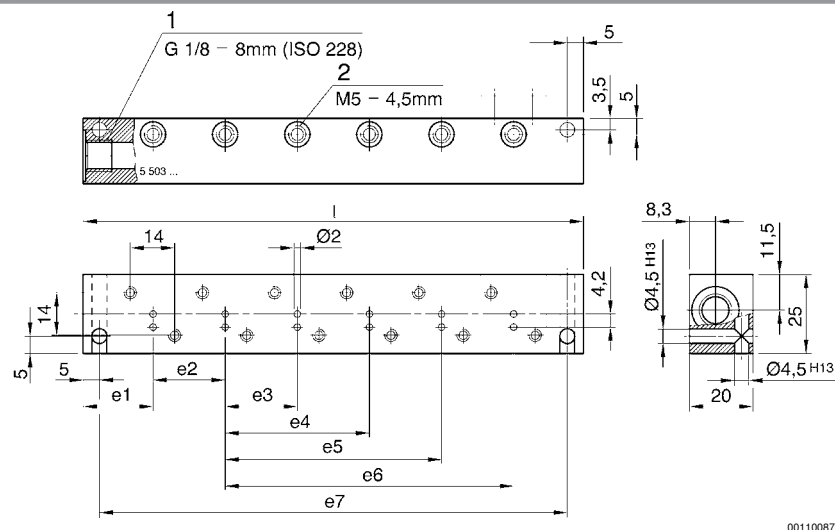
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.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

Compressed air connection		Number of valve positions	Weight	Part No.
Input	Output			
[1]	[2 / 4]		[kg]	
G 1/8	M5	1	0.049	1825503318
		2	0.079	1825503319
		3	0.1	1825503320
		4	0.126	1825503321
		5	0.154	1825503322

Directional valves ► Electrically operated

Series DO Accessories

Dimensions



00110087

Part No.	e1	e2	e3	e4	e5	e6	e7	L	Weight kg			
1825503318	22	—	—	—	—	—	34	44	0.049			
1825503319	22	23	—	—	—	—	57	67	0.079			
1825503320	22	23	46	—	—	—	80	90	0.1			
1825503321	22	23	46	69	—	—	103	113	0.126			
1825503322	22	23	46	69	92	—	126	136	0.154			

Blanking plate, Series DO22



00110085

Ambient temperature min./max.

-10°C / +50°C

Medium temperature min./max.

-10°C / +50°C

Medium

Compressed air

Working pressure min./max.

0 bar / 10 bar

Number of valve positions

1

Grid dimension

23 mm

Mounting screw

M3

Materials:

Housing

Aluminum, anodized

Seals

Acrylonitrile butadiene rubber

Screws

Steel, galvanized

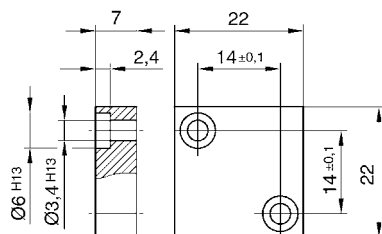
Technical Remarks

- 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 DO
 Accessories

	Weight	Part No.
	[kg]	
	0.011	1825503368

Dimensions



00110088

Single subbase, Series DO22

► Compressed air connection output: M5



00110076

Version	Single plug-in wiring
Medium	Compressed air
Working pressure min./max.	0 bar / 10 bar
Number of valve positions	1
Mounting screw	M3
Direction of pneumatic port (2,4)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Materials:	
Base plate	Aluminum

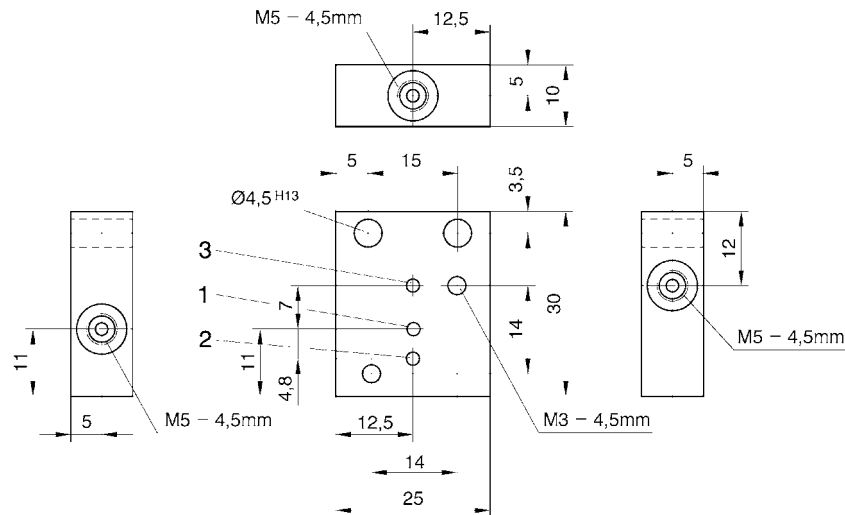
Technical Remarks

- 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			Weight	Part No.
Input	Output	Exhaust		
[1]	[2 / 4]	[3 / 5]	[kg]	
M5	M5	M5	0.135	1825503591

Series DO Accessories

Dimensions



00110081

Blanking screw, gasket

► M5 ► FPT-S-RBI



00110668

Ambient temperature min./max.

Working pressure min./max.

-20°C / +80°C

0 bar / 16 bar

Materials:

Screw

Housing

Seal

Thread

Steel, galvanized

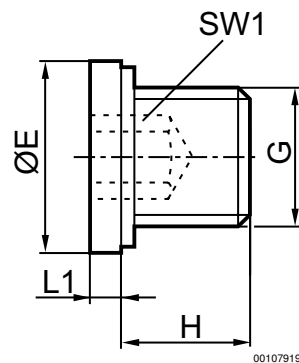
Steel, galvanized

Polyvinyl chloride, hard

Steel, galvanized

The delivered product may vary from that in the illustration.

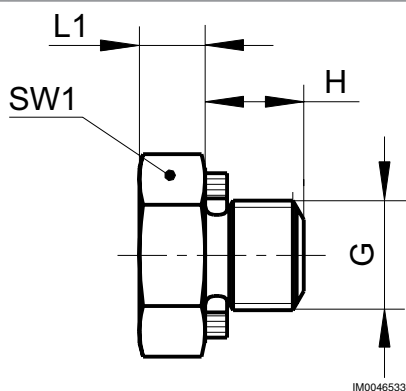
Dimensions, Fig. 1



00107919

Series DO
Accessories

Dimensions, Fig. 2



Part No.	Port G	Ø E	H	L1	SW1	Delivery quantity [Piece]	Fig.				
1823462016	M5	—	4.5	3	8	25	Fig. 2				

Manifold block, Series DO30


00110093

Ambient temperature min./max.
Medium
Working pressure min./max.
Direction of pneumatic port (1)

-15°C / +80°C
Compressed air
0 bar / 10 bar
On the side

Materials:
Base plate
Seals

Aluminum
Acrylonitrile butadiene rubber

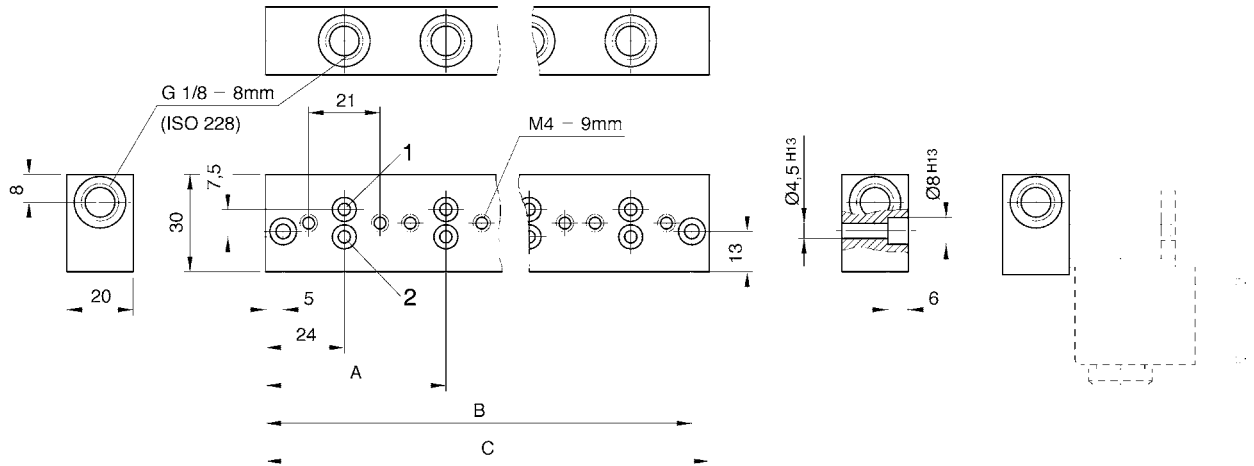
Technical Remarks

- 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			
[1]		[kg]	
G 1/8	1	0.045	1825503236
	2	0.09	1825503237
	3	0.135	1825503238
	4	0.18	1825503239
	5	0.225	1825503240
	6	0.275	1825503241

Series DO Accessories

Dimensions



00110096

Part No.	A	B	C	Weight kg								
1825503236	–	43	48	0.045								
1825503237	55	74	79	0.09								
1825503238	86	105	110	0.135								
1825503239	117	136	141	0.18								
1825503240	148	167	172	0.225								
1825503241	179	198	203	0.275								

Blanking plate, Series DO30



Ambient temperature min./max.

-15°C / +50°C

Medium temperature min./max.

-15°C / +50°C

Medium

Compressed air

Working pressure min./max.

0 bar / 10 bar

Number of valve positions

1

Grid dimension

31 mm

Mounting screw

M4

Materials:

Housing

Aluminum

Screws

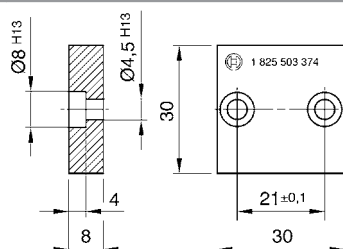
Steel, galvanized

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 DO
Accessories

	Weight	Part No.
	[kg]	
	0.022	1825503374

Dimensions


00110097

Subbase, Series DO35

► Compressed air connection output: G 1/8



00110109

Ambient temperature min./max.	-- / +50 °C
Medium	Compressed air
Working pressure min./max.	1 bar / 10 bar
Grid dimension	34 mm
Mounting screw	with hexagon socket
Direction of pneumatic port (2,4)	On the side
Materials:	
Base plate	Die-cast aluminum

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“.

Type	Compressed air connection		Weight	Fig.	Part No.
	Input	Output			
	[1]	[2 / 4]	[kg]		
Single subbase	G 1/8	G 1/8	0.057	Fig. 1	1825503369
Manifold subbase	G 1/8	G 1/8	0.125	Fig. 2	1825503370

Scope of delivery incl. seal and mounting screws

Series DO Accessories

Fig. 1

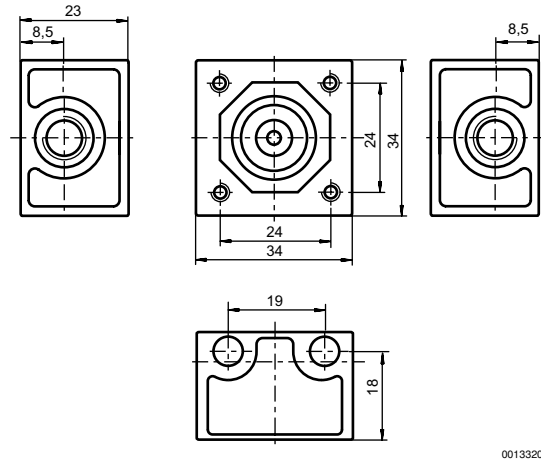
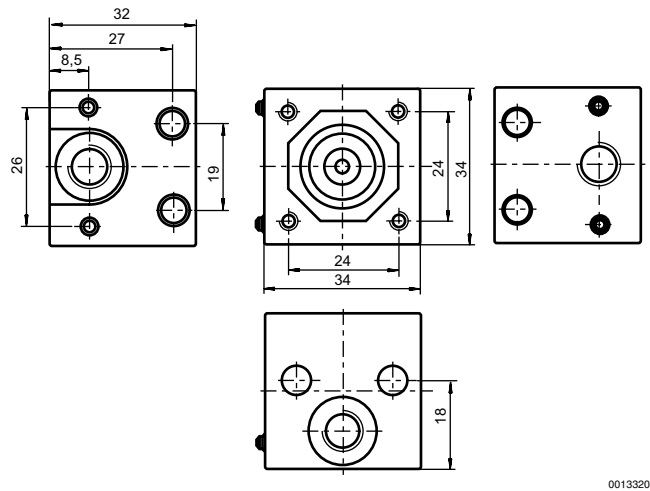


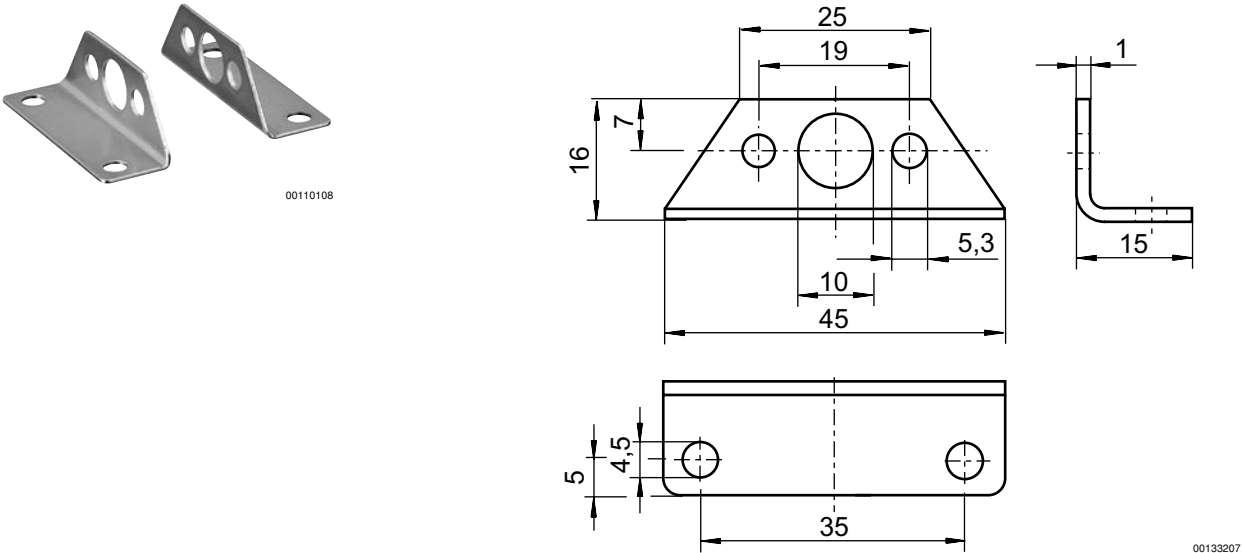
Fig. 2



Series DO

Accessories

Mounting bracket kit, Series DO35



Part No.	Type	Weight [kg]	Order quantity [Piece]						
1827010423	Mounting bracket kit	0.03	2						

Pilot valve, Series DO35

▶ Qn = 110 - 140 l/min ▶ pipe connection ▶ Electr. connection: Plug, ISO 4400, form A ▶ Manual override: with detent

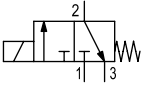
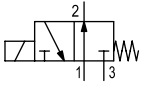
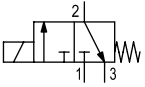
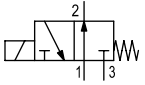
<p>B0000252</p>	Version	Poppet valve
	Sealing principle	Soft sealing
	Working pressure min./max.	0 bar / 10 bar
	Ambient temperature min./max.	-10 °C / +50 °C
	Medium	Compressed air
	Nominal flow 1 ▶ 2	See table below
	Nominal flow 2 ▶ 3	120 l/min
	Duty cycle	100 %
	Mounting screw	M4
	Mounting screw tightening torque	1 Nm
	Tightening torque tolerance	+0,3
	Materials:	
	Seals	Fluorocautchouc

Technical Remarks
<ul style="list-style-type: none">■ 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“.

Directional valves ► Electrically operated

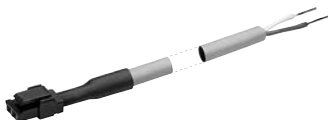
Series DO Accessories

			Operational voltage	Power consumption
DC	AC 50 Hz	AC 60 Hz	DC	W
24 V	-	-	-	-
24 V	-	-	8	-
-	24 V	-	-	-
-	110 V	110 V	-	-
-	230 V	-	-	-

		Compressed air connection	Operating voltage			Power consumption	Flow rate value	Part No.
			DC	AC 50 Hz	AC 60 Hz	DC	Qn 1►2	
						[W]	[l/min]	
	NC	G 1/8	24 V	-	-	-	140	1827414004
	NO	G 1/8	24 V	-	-	8	110	1827414006
	NC	G 1/8	-	24 V 110 V 230 V	- 110 V -	-	140	1827414011 1827414015 1827414016
	NO	G 1/8	-	24 V 110 V 230 V	- 110 V -	-	110	1827414020 1827414024 1827414025

Connecting cable, Series CN2

► Socket, 2-pin, straight ► without wire end ferrule, tin-plated, 2-pin ► RJ plug connector

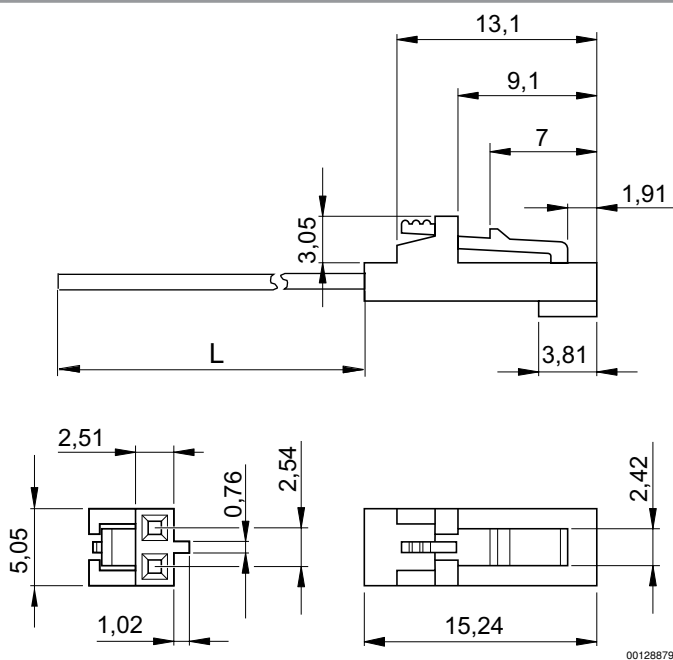


00130630

Series DO
 Accessories

Number of wires	Cable length L	Weight	Delivery quantity	Note	Part No.
	[m]	[kg]	[Piece]		
2	5	0.042	5	-	1834484265
	3	0.026	1	-	1834484266
	-	0.003	10	1)	1834484267

1) without cable

Dimensions


L = length

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31-03-2017

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