

Directional valves ▶ Electrically operated

## Series 740

Brochure



Directional valves ▶ Electrically operated

## Series 740

	<p>5/2-directional valve, Series 740</p> <ul style="list-style-type: none"> <li>▶ Qn = 700 - 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 8x1 - Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: without detent, with detent ▶ single solenoid ▶ Pilot: internal</li> </ul>	5
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	<p>5/2-directional valve, Series 740-UL                  ▶ Qn = 700 l/min ▶ pipe connection ▶ Compressed air connection output: Ø3/8 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks                  ▶ Manual override: with detent, without detent ▶ double solenoid ▶ Pilot: internal</p>	29
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Contact bridge

▶ Control: Multipole ▶ Plug, Snap Ø8, 3-pin ▶ Number of solenoid coils: 1

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Fittings - Accessories, Series 740

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### 5/2-directional valve, Series 740

▶ Qn = 700 - 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 8x1 - Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: without detent, with detent ▶ single solenoid ▶ Pilot: internal



00134324

Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle, Plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Nominal flow Qn	See table below
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	36 ms
Weight	See table below
Materials:	
Housing	Polyarylamide; Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

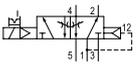
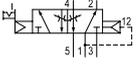
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	2.1	6.6	5.5	4.18	3.3
-	-	-	-	-	-	2.1	-	-	-	-

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740

▶ Qn = 700 - 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 8x1 - Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: without detent, with detent ▶ single solenoid ▶ Pilot: internal

	MO	Compressed air connection			Operating voltage			Power consumption		Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		Ø 8x1	Ø 8x1		24 V	-	-		-	<b>5727400220</b>
		Ø 8x1	Ø 8x1		24 V	-	-		-	<b>5727400420</b>
		Ø 8x1	Ø 8x1		24 V	-	-		-	5727420220
		Ø 10x1	Ø 10x1	M14x1	24 V	-	-	2.1	-	<b>5727450220</b>
		Ø 10x1	Ø 10x1	M14x1	24 V	-	-		-	<b>5727450420</b>
		Ø 8x1	Ø 8x1		-	230 V	230 V		4.18	<b>5727405280</b>
		Ø 8x1	Ø 8x1		-	230 V	230 V		4.18	<b>5727405480</b>
		Ø 10x1	Ø 10x1		-	230 V	230 V		4.18	<b>5727455280</b>
	Ø 10x1	Ø 10x1		-	230 V	230 V		4.18	5727455480	
		Ø 8x1	Ø 8x1	M14x1	-	-	-	2.1	-	<b>5727405302</b>
		Ø 10x1	Ø 10x1	M14x1	-	-	-		-	<b>5727455302</b>

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			
	[VA]	[VA]	[VA]	[l/min]			
<b>5727400220</b>	-	-	-	700	13, 14	0.339	1); 4)
<b>5727400420</b>	-	-	-	700	13, 14	0.317	2); 4)
5727420220	-	-	-	700	13, 14	0.335	1); 4); 6)
<b>5727450220</b>	-	-	-	950	14, 14	0.341	1); 4)
<b>5727450420</b>	-	-	-	950	13, 14	0.318	2); 4)
<b>5727405280</b>	3.3	6.6	5.5	700	14	0.335	1); 4)
<b>5727405480</b>	3.3	6.6	5.5	700	14	0.311	2); 4)
<b>5727455280</b>	3.3	6.6	5.5	950	14	0.336	1); 4)
5727455480	3.3	6.6	5.5	950	14	0.311	2); 4)
<b>5727405302</b>	-	-	-	700	14	0.221	3); 5)
<b>5727455302</b>	-	-	-	950	14	0.22	

MO = Manual override

- 1) with electrical connector
  - 2) without electrical connector
  - 3) Basic valve without coil
  - 4) Protected against polarity reversal
  - 5) ATEX optional
  - 6) ATEX certified: II 3G3D EEX nA IIB T4 IP65 T125 °C X
- Nominal flow Qn at 6 bar and Δp = 1 bar

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740

▶ Qn = 700 - 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 8x1 - Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: without detent, with detent ▶ single solenoid ▶ Pilot: internal

#### Dimensions

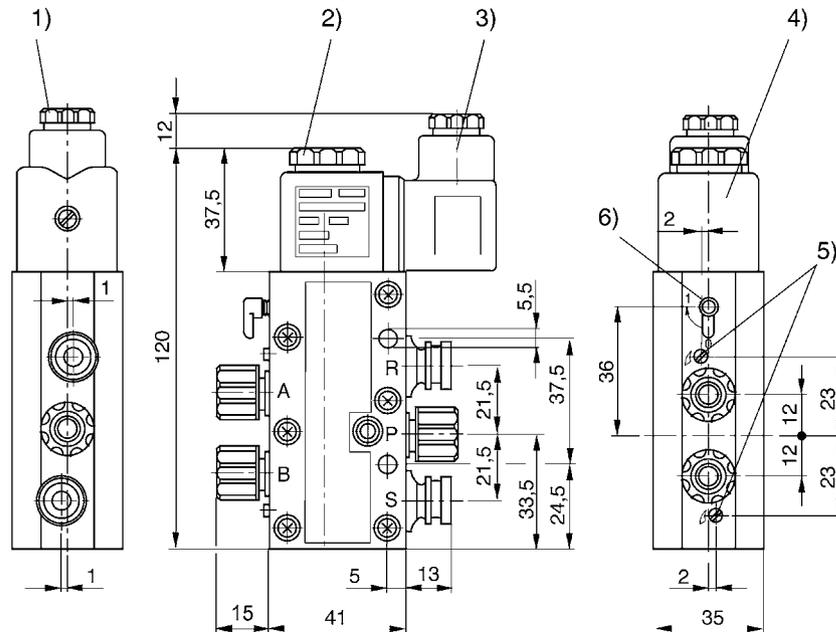
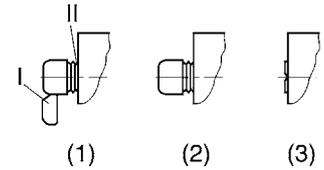


Fig. 1



- 1) gland fitting M16x1,5
- 2) M5 internal thread accessible under cap
- 3) el. connector can be rotated at 90° intervals
- 4) coil can be plugged at 45° intervals
- 5) throttle screw for exhausts 5 (R) and 3 (S) (S)
- 6) manual override and position indicator

Fig. 1: manual override:

manual actuation: (1) with detent - push and turn into position 1 (2) without detent - remove segment 1 - push only  
actuation by tool: (3) with detent - remove segments up to II - push with tool and turn into position 1

D572\_740

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740

▶ Qn = 1100 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ Pilot: internal



00134163

Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Plate principle, Single base plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Nominal flow Qn	1100 l/min
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	36 ms
Weight	See table below
Materials:	
Housing	Polyoxymethylene; Polyarylamide
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Operational voltage			Voltage tolerance			Power consumption		Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
						W	VA	VA	VA	VA	
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-	
-	230 V	230 V	-	-20% / +10%	-10% / +20%	2.1	6.6	5.5	4.18	3.3	
-	-	-	-	-	-	2.1	-	-	-	-	

	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]		
		Ø 10x1	Ø 10x1	M14x1	24 V	-	-	2.1	-	<b>5727470220</b>	
					-	230 V	230 V	-	4.18		5727475280
		Ø 10x1	Ø 10x1	M14x1	-	-	-	2.1	-	<b>5727475302</b>	

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

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## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740

▶ Qn = 1100 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ Pilot: internal

Part No.	Holding power		Switch-on power		Compatibility index	Weight	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz	AC 50 Hz			
	[VA]	[VA]	[VA]	[VA]		[kg]	
<b>5727470220</b>	-	-	-	-	13, 14	0.33	1); 3)
5727475280	3.3	6.6	5.5	14		0.325	
<b>5727475302</b>	-	-	-	-	14	0.236	2); 4)

MO = Manual override

1) without electrical connector

2) Basic valve without coil

3) Protected against polarity reversal

4) ATEX optional

Nominal flow Qn at 6 bar and Δp = 1 bar

### Dimensions

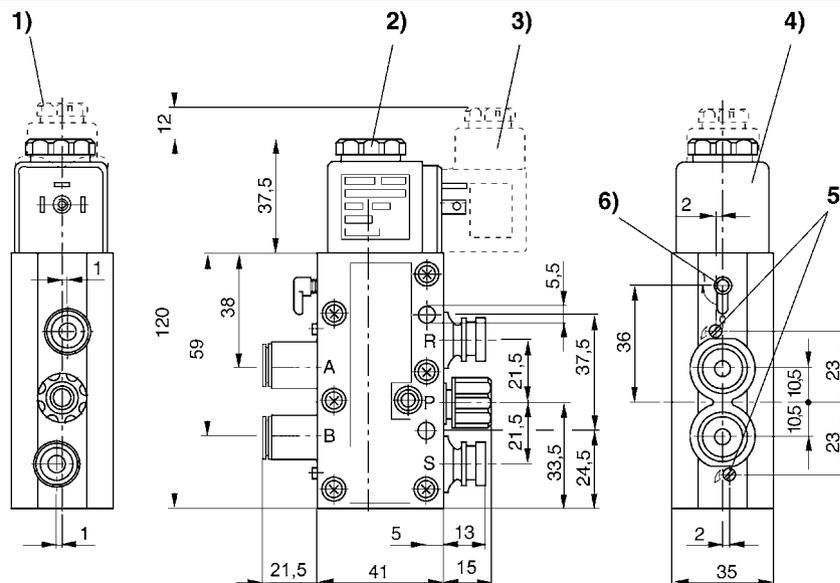
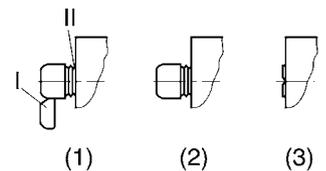


Fig. 1



1) gland fitting M16x1,5

2) M5 internal thread accessible under cap

3) el. connector can be rotated at 90° intervals

4) coil can be plugged at 45° intervals

5) throttle screw for exhausts 5 (R) and 3 (S)

6) manual override and position indicator

Fig. 1: manual override:

manual actuation: (1) with detent - push and turn into position 1 (2) without detent - remove segment 1 - push only

actuation by tool: (3) with detent - remove segments up to II - push with tool and turn into position 1

D572\_747

### 5/2-directional valve, Series 740

▶ Qn = 700 - 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 8x1 - Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ double solenoid ▶ Pilot: internal



Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Plate principle, Single base plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Nominal flow Qn	See table below
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	40 ms
Weight	See table below
<b>Materials:</b>	
Housing	Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	2.1	6.6	5.5	4.18	3.3
-	-	-	-	-	-	2.1	-	-	-	-

	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]	
		Ø 8x1	Ø 8x1	M14x1	24 V	-	-	2.1	-	<b>5727410220</b>
		Ø 8x1	Ø 8x1		24 V	-	-		-	<b>5727410420</b>
		Ø 10x1	Ø 10x1		24 V	-	-		-	<b>5727460220</b>
		Ø 10x1	Ø 10x1		24 V	-	-		-	<b>5727460420</b>
		Ø 8x1	Ø 8x1		-	230 V	230 V		4.18	<b>5727415280</b>
		Ø 8x1	Ø 8x1		24 V	-	-		-	<b>5727440220</b>
		Ø 8x1	Ø 8x1		-	230 V	230 V		4.18	5727415480
		Ø 10x1	Ø 10x1		-	230 V	230 V		4.18	<b>5727465280</b>
Ø 10x1	Ø 10x1	-	230 V	230 V	4.18	5727465480				

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

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## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740

▶ Qn = 700 - 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 8x1 - Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ double solenoid ▶ Pilot: internal

	MO	Compressed air connection			Operating voltage			Power consumption	Hold- ing power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		Ø 8x1 Ø 10x1	Ø 8x1 Ø 10x1	M14x1	-	-	-	2.1	-	<b>5727415302</b> <b>5727465302</b>

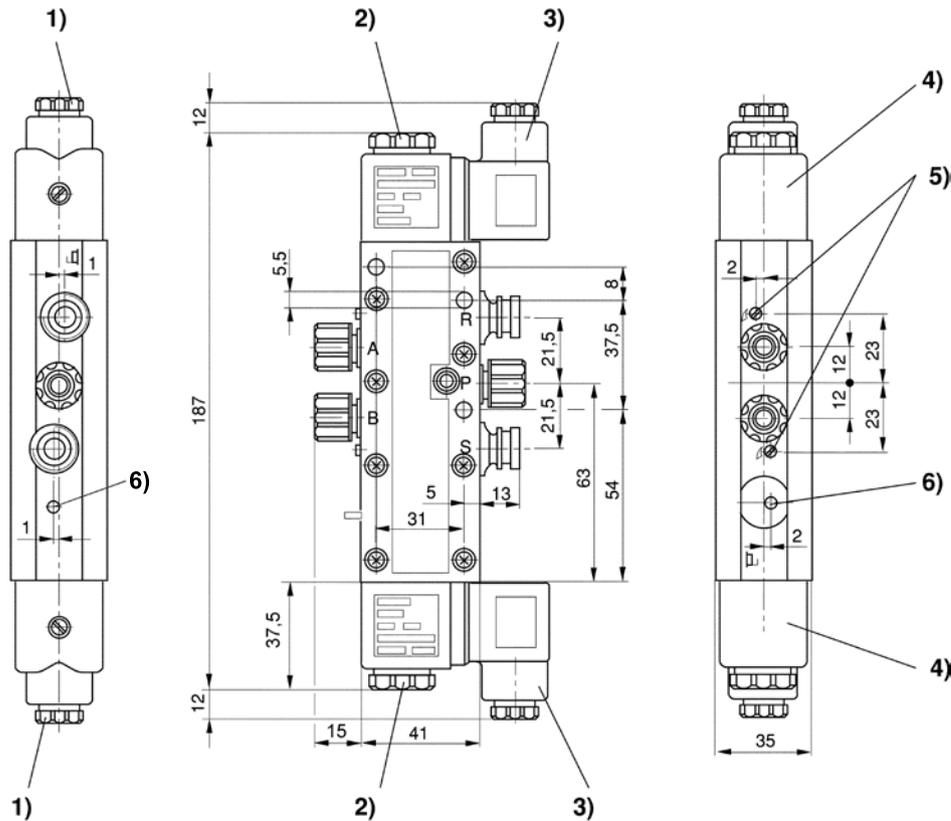
Part No.	Holding power	Switch-on power	Switch-on power	Flow rate value	Compatibility index	Weight	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn			
	[VA]	[VA]	[VA]	[l/min]			
<b>5727410220</b>	-	-	-	700	13, 14	0.555	1); 4)
<b>5727410420</b>	-	-	-	700	13, 14	0.505	2); 4)
<b>5727460220</b>	-	-	-	950	13, 14	0.555	1); 4)
<b>5727460420</b>	-	-	-	950	13, 14	0.505	2); 4)
<b>5727415280</b>	3.3	6.6	5.5	700	14	0.544	1); 4)
<b>5727440220</b>	-	-	-	700	13, 14	-	1); 4); 6)
5727415480	3.3	6.6	5.5	700	14	0.53	2); 4)
<b>5727465280</b>	3.3	6.6	5.5	950	14	0.539	1); 4)
5727465480	3.3	6.6	5.5	950	14	0.496	2); 4)
<b>5727415302</b>	-	-	-	700	14	0.319	3); 5)
<b>5727465302</b>	-	-	-	950		0.316	

MO = Manual override

- 1) with electrical connector
  - 2) without electrical connector
  - 3) Basic valve without coil
  - 4) Protected against polarity reversal
  - 5) ATEX optional
  - 6) ATEX certified: II 3G3D EEX nA IIB T4 IP65 T125 °C X
- Nominal flow Qn at 6 bar and Δp = 1 bar

**5/2-directional valve, Series 740**

▶  $Q_n = 700 - 950 \text{ l/min}$  ▶ pipe connection ▶ Compressed air connection output:  $\text{Ø } 8 \times 1 - \text{Ø } 10 \times 1$  ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ double solenoid ▶ Pilot: internal

**Dimensions**


D572\_741

- 1) gland fitting M16x1,5
- 2) M5 internal thread accessible under cap
- 3) el. connector can be rotated at 90° intervals
- 4) coil can be plugged at 45° intervals
- 5) throttle screw for exhausts 5 (R) and 3 (S) (S)
- 6) manual override and position indicator

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740

▶ Qn = 1100 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ double solenoid ▶ Pilot: internal



Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Plate principle, Single base plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Nominal flow Qn	1100 l/min
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	40 ms
Weight	See table below
<b>Materials:</b>	
Housing	Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Operational voltage			Voltage tolerance			Power consumption		Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
						W	VA	VA	VA	VA	
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-	
-	230 V	230 V	-	-20% / +10%	-10% / +20%	2.1	6.6	5.5	4.18	3.3	
-	-	-	-	-	-	2.1	-	-	-	-	

	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]	
		Ø 10x1	Ø 10x1	M14x1	24 V	-	-	2.1	-	-	5727480220	
		Ø 10x1	Ø 10x1	M14x1	-	230 V	230 V	2.1	4.18	-	5727485280	
		Ø 10x1	Ø 10x1	M14x1	-	-	-	2.1	-	-	<b>5727485302</b>	

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

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## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740

▶  $Q_n = 1100 \text{ l/min}$  ▶ pipe connection ▶ Compressed air connection output:  $\text{Ø } 10 \times 1$  ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ double solenoid ▶ Pilot: internal

Part No.	Holding power	Switch-on power	Switch-on power	Compatibility index	Weight	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz			
	[VA]	[VA]	[VA]		[kg]	
5727480220	-	-	-	13, 14	0.514	1); 3)
5727485280	3.3	6.6	5.5	14	0.52	
<b>5727485302</b>	-	-	-	14	0.327	2); 4)

MO = Manual override

1) without electrical connector

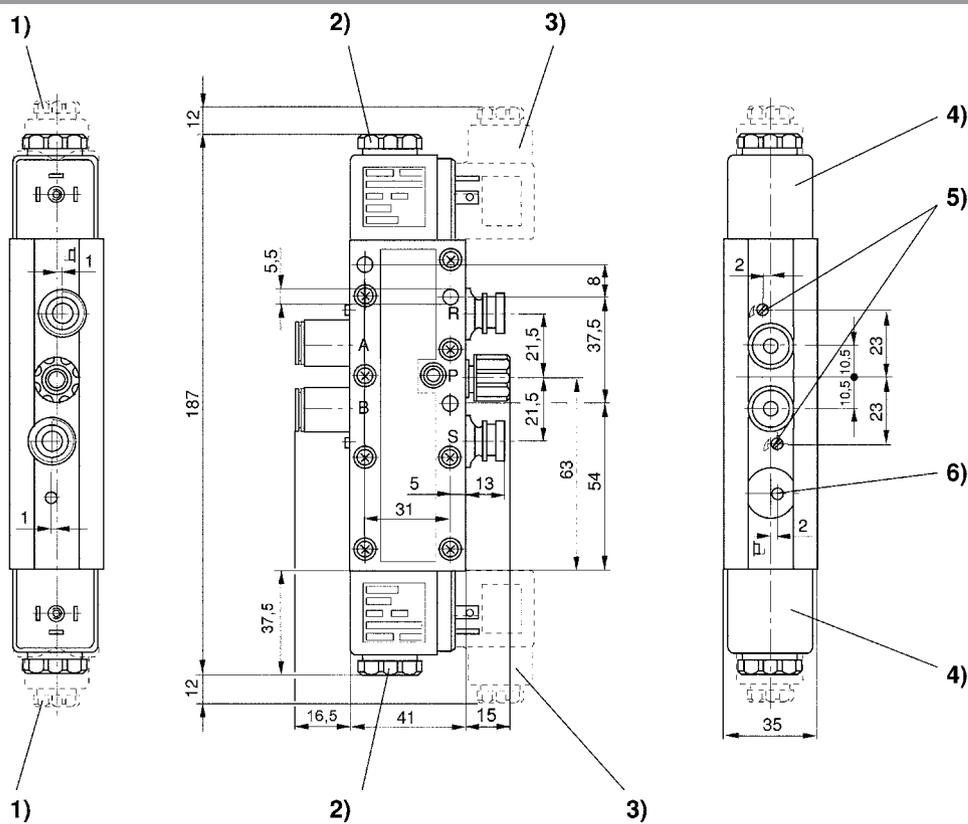
2) Basic valve without coil

3) Protected against polarity reversal

4) ATEX optional

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

### Dimensions



D572\_748

1) gland fitting M16x1,5

2) M5 internal thread accessible under cap

3) el. connector can be rotated at  $90^\circ$  intervals

4) coil can be plugged at  $45^\circ$  intervals

5) throttle screw for exhausts 5 (R) and 3 (S) (S)

6) manual override and position indicator

## Directional valves ▶ Electrically operated

### 5/4-directional valve, Series 740

▶ Qn = 700 - 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 8x1 - Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ Can be assembled into blocks ▶ Manual override: without detent ▶ Pilot: internal



00134169

Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Plate principle, Single base plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Nominal flow Qn	See table below
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	54 ms
Weight	See table below
Materials:	
Housing	Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.
- NOTE: In order to ensure the operating function of the valve, do not fall below the minimum operating pressure of 3 bar!

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.6	5.5	4.18	3.3

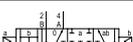
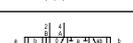
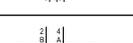
	MO	Compressed air connection			Operating voltage			Power consumption	Holding power	Part No.	
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz		
								[W]	[VA]		
		Ø 8x1	Ø 8x1	M14x1	24 V	-	-	2.1	-	<b>5727500220</b>	
		Ø 10x1	Ø 10x1		24 V	-	-	2.1	-	<b>5727550220</b>	
		Ø 8x1	Ø 8x1		-	230 V	230 V	-	4.18	-	5727505280
		Ø 10x1	Ø 10x1		-	230 V	230 V	-	4.18	-	5727555280
		Ø 8x1	Ø 8x1		-	-	-	-	-	-	<b>5727505302</b>
		Ø 10x1	Ø 10x1		-	-	-	-	-	-	5727555302

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

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**Directional valves ▶ Electrically operated**
**5/4-directional valve, Series 740**

▶ Qn = 700 - 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 8x1 - Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ Can be assembled into blocks ▶ Manual override: without detent ▶ Pilot: internal

	MO	Compressed air connection			Operating voltage			Power consumption		Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		Ø 8x1	Ø 8x1	M14x1	24 V	-	-	2.1	-	<b>5727510220</b>
					-	230 V	230 V	-	4.18	5727515280
		Ø 10x1	Ø 10x1	M14x1	24 V	-	-	2.1	-	<b>5727560920</b>
		Ø 8x1	Ø 8x1	M14x1	-	-	-	-	-	<b>5727515302</b>
		Ø 10x1	Ø 10x1	M14x1	-	230 V	230 V	-	4.18	<b>5727565280</b>
		Ø 10x1	Ø 10x1	M14x1	-	-	-	-	-	5727565302

Part No.	Holding power	Switch-on power	Switch-on power	Flow rate value	Compatibility index	Weight	Fig.	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn				
	[VA]	[VA]	[VA]	[l/min]				
<b>5727500220</b>	-	-	-	700	13, 14	0.551	Fig. 1	1); 4)
<b>5727550220</b>	-	-	-	950	13, 14	0.547		1); 4)
5727505280	3.3	6.6	5.5	700	14	0.541		1); 4)
5727555280	3.3	6.6	5.5	950	14	0.539		1); 4)
<b>5727505302</b>	-	-	-	700	14	0.318		3); 5)
5727555302	-	-	-	950	14	0.317	3); 5)	
<b>5727510220</b>	-	-	-	700	13, 14	0.547	Fig. 1	1); 4)
5727515280	3.3	6.6	5.5	700	14	0.539		
<b>5727560920</b>	-	-	-	950	14	0.551	Fig. 2	2); 4)
<b>5727515302</b>	-	-	-	700	14	0.317	Fig. 1	3); 5)
<b>5727565280</b>	3.3	6.6	5.5	950	14	0.541	Fig. 1	1); 4)
5727565302	-	-	-	950	14	0.318	-	3); 5)

MO = Manual override

- 1) with electrical connector
- 2) without electrical connector
- 3) Basic valve without coil
- 4) Protected against polarity reversal
- 5) ATEX optional

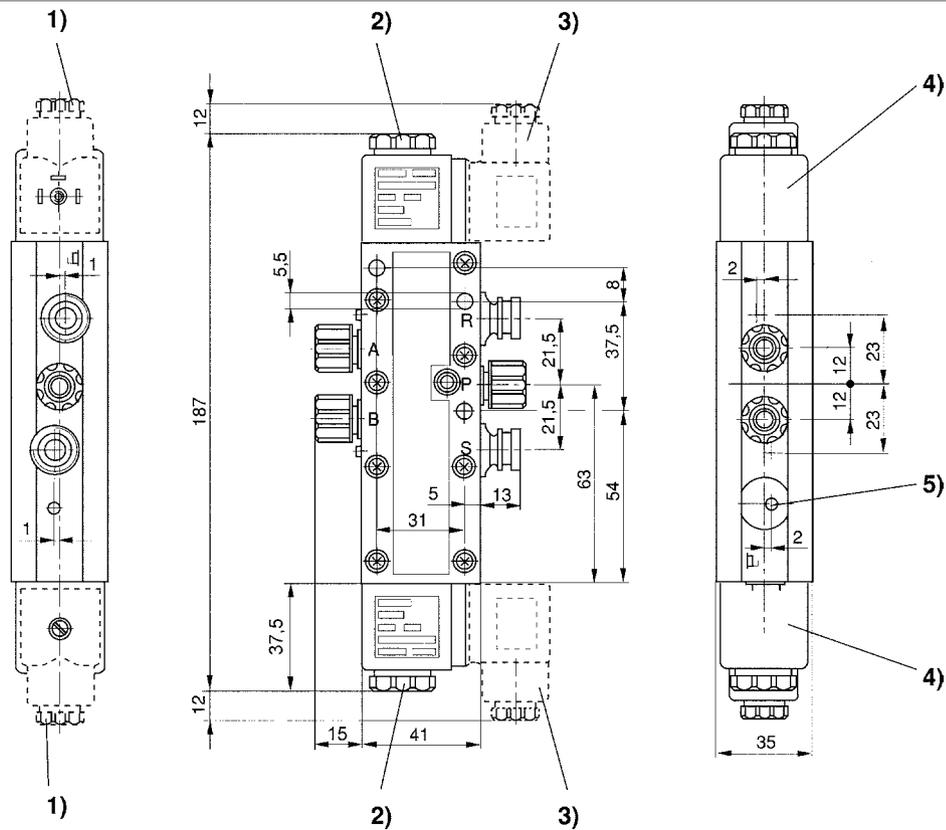
Nominal flow Qn at 6 bar and Δp = 1 bar

## Directional valves ▶ Electrically operated

### 5/4-directional valve, Series 740

- ▶  $Q_n = 700 - 950 \text{ l/min}$  ▶ pipe connection ▶ Compressed air connection output:  $\text{Ø } 8 \times 1 - \text{Ø } 10 \times 1$  ▶ Electr. connection: Plug, EN 175301-803, form A ▶ Can be assembled into blocks ▶ Manual override: without detent ▶ Pilot: internal

Fig. 1

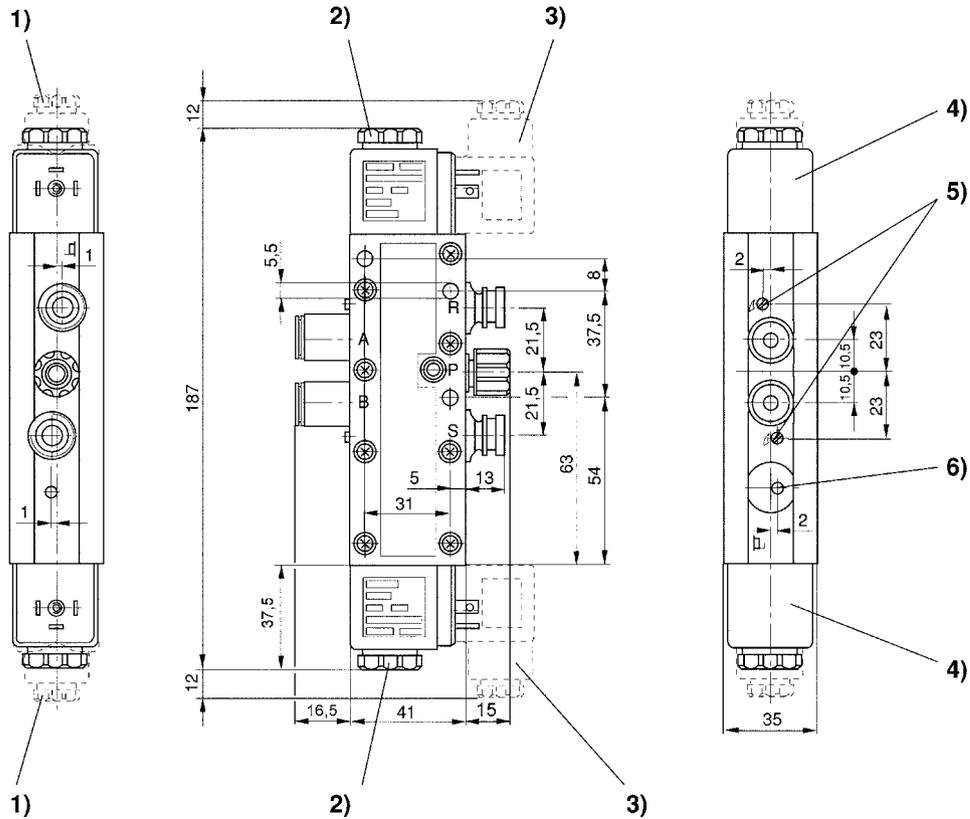


- 1) gland fitting M16x1,5
- 2) M5 internal thread accessible under cap
- 3) el. connector can be fixed at 90° intervals
- 4) coil can be mounted at 45° intervals
- 5) throttle screw for exhausts 5 (R) and 3 (S)
- 6) manual override and position indicator

D572\_750

**5/4-directional valve, Series 740**

- ▶  $Q_n = 700 - 950 \text{ l/min}$  ▶ pipe connection ▶ Compressed air connection output:  $\text{Ø } 8 \times 1 - \text{Ø } 10 \times 1$  ▶ Electr. connection: Plug, EN 175301-803, form A ▶ Can be assembled into blocks ▶ Manual override: without detent ▶ Pilot: internal

**Fig. 2**


D572\_748

- 1) gland fitting M16x1,5
- 2) M5 internal thread accessible under cap
- 3) el. connector can be rotated at 90° intervals
- 4) coil can be plugged at 45° intervals
- 5) throttle screw for exhausts 5 (R) and 3 (S) (S)
- 6) manual override and position indicator

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740-CP

▶ Qn = 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ corrosion-protected ▶ Can be assembled into blocks ▶ Manual override: with detent, without detent ▶ single solenoid ▶ Pilot: internal



00134166

Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Plate principle, Single base plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Nominal flow Qn	950 l/min
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	36 ms
Weight	See table below
Materials:	
Housing	Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber
Front plate	Polyarylamide

#### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Operational voltage			Voltage tolerance			Power consumption		Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
						W	VA	VA	VA	VA	
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-	
-	230 V	230 V	-	-20% / +10%	-10% / +20%	2.1	6.6	5.5	4.18	3.3	
-	-	-	-	-	-	2.1	-	-	-	-	

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]	
	Ø 10x1	Ø 10x1	M14x1	24 V	-	-	2.1	-	<b>5727940220</b>	
				-	230 V	230 V		4.18	5727945280	
	Ø 10x1	Ø 10x1	M14x1	-	-	-	2.1	-	<b>5727945302</b>	

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

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### 5/2-directional valve, Series 740-CP

▶  $Q_n = 950 \text{ l/min}$  ▶ pipe connection ▶ Compressed air connection output:  $\text{Ø } 10 \times 1$  ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ corrosion-protected ▶ Can be assembled into blocks ▶ Manual override: with detent, without detent ▶ single solenoid ▶ Pilot: internal

Part No.	Holding power		Switch-on power		Compatibility index	Weight	Note
	AC 60 Hz	AC 50 Hz	AC 50 Hz	AC 60 Hz			
	[VA]	[VA]	[VA]	[VA]		[kg]	
<b>5727940220</b>	-	-	-	-	13, 14	0.326	1); 3)
5727945280	3.3	6.6	5.5	14		0.328	
<b>5727945302</b>	-	-	-	-	14	0.228	2); 4)

MO = Manual override

1) without electrical connector

2) Basic valve without coil

3) Protected against polarity reversal

4) ATEX optional

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

### Dimensions

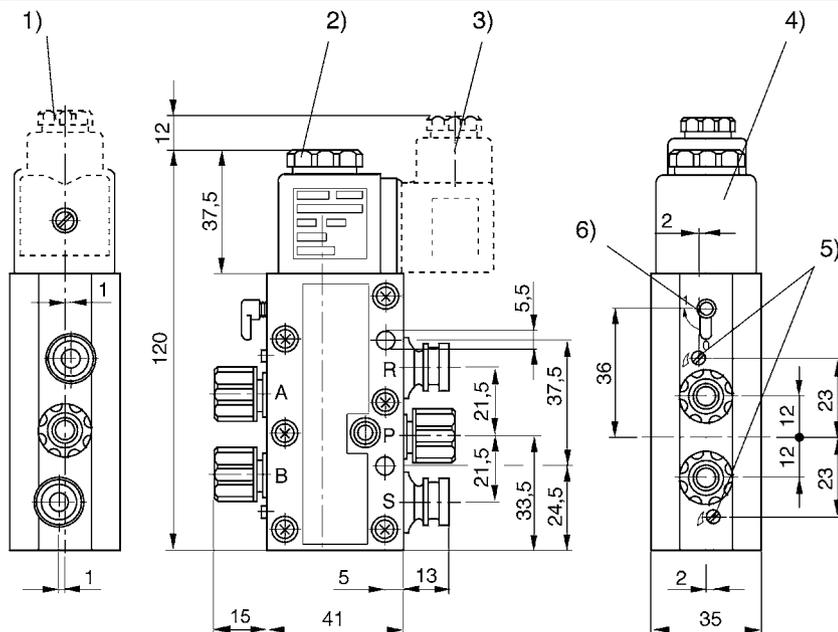
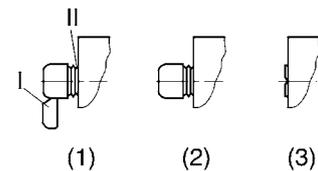


Fig. 1



1) gland fitting M16x1,5

2) M5 internal thread accessible under cap

3) el. connector can be rotated at  $90^\circ$  intervals

4) coil can be plugged at  $45^\circ$  intervals

5) throttle screw for exhausts 5 (R) and 3 (S) (S)

6) manual override and position indicator

Fig. 1: manual override:

manual actuation: (1) with detent - push and turn into position 1 (2) without detent - remove segment 1 - push only

actuation by tool: (3) with detent - remove segments up to II - push with tool and turn into position 1

D572\_794

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740-CP

▶ Qn = 950 l/min ▶ pipe connection ▶ Compressed air connection output: Ø 10x1 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ corrosion-protected ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ double solenoid ▶ Pilot: internal



00134167

Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Plate principle, Single base plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Nominal flow Qn	950 l/min
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	40 ms
Weight	See table below
<b>Materials:</b>	
Housing	Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber
Front plate	Polyarylamide

#### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	230 V	230 V	-	-20% / +10%	-10% / +20%	2.1	6.6	5.5	4.18	3.3
-	-	-	-	-	-	2.1	-	-	-	-

	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]	
		Ø 10x1	Ø 10x1	M14x1	24 V	-	-	2.1	-	<b>5727920220</b>
					-	230 V	230 V		4.18	5727925280
		Ø 10x1	Ø 10x1	M14x1	-	-	-	2.1	-	<b>5727925302</b>

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

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## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740-CP

▶  $Q_n = 950$  l/min ▶ pipe connection ▶ Compressed air connection output:  $\varnothing 10 \times 1$  ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ corrosion-protected ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ double solenoid ▶ Pilot: internal

Part No.	Holding power	Switch-on power	Switch-on power	Compatibility index	Weight	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz			
	[VA]	[VA]	[VA]		[kg]	
<b>5727920220</b>	-	-	-	14	0.52	1); 3)
5727925280	3.3	6.6	5.5			
<b>5727925302</b>	-	-	-	13, 14	0.306	2); 4)

MO = Manual override

1) without electrical connector

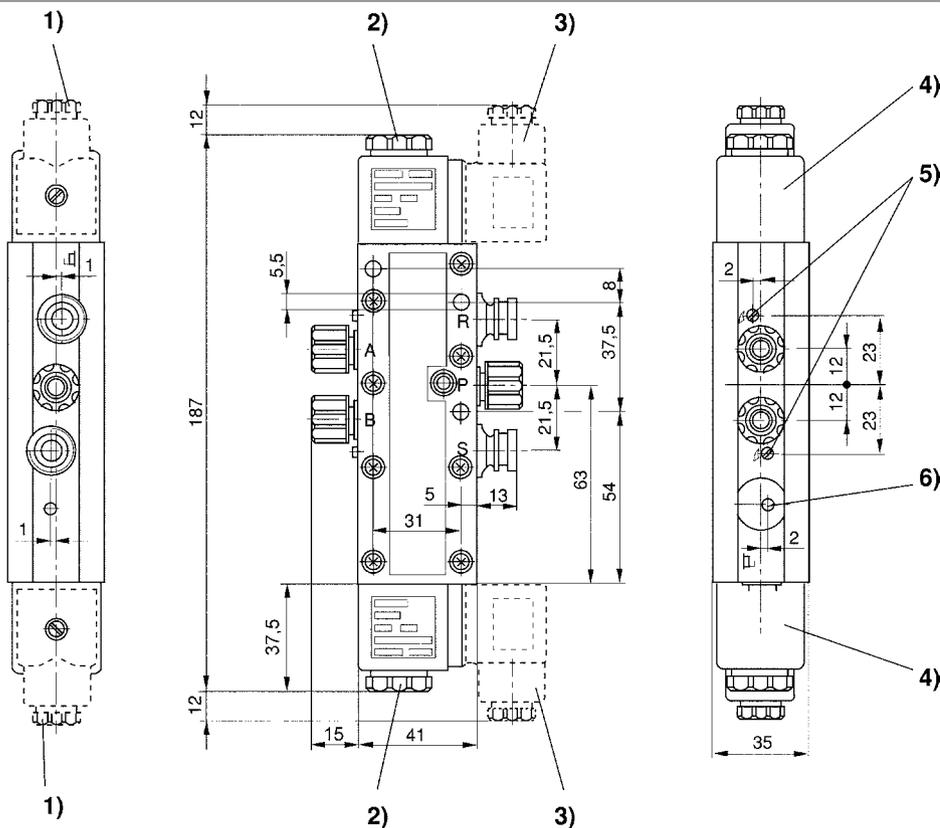
2) Basic valve without coil

3) Protected against polarity reversal

4) ATEX optional

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

### Dimensions



D572\_792

1) gland fitting M16x1,5

2) M5 internal thread accessible under cap

3) el. connector can be rotated at 90° intervals

4) coil can be plugged at 45° intervals

5) throttle screw for exhausts 5 (R) and 3 (S) (S)

6) manual override and position indicator

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740-BV

▶ Qn = 700 l/min ▶ pipe connection ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ single solenoid ▶ Pilot: internal



740-BV\_single

Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle, Plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Nominal flow Qn	700 l/min
Protection class with connection	IP65
	Protected against polarity reversal
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	35 ms
Weight	0.221 kg
<b>Materials:</b>	
Housing	Polyoxymethylene; Polyarylamide
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“.

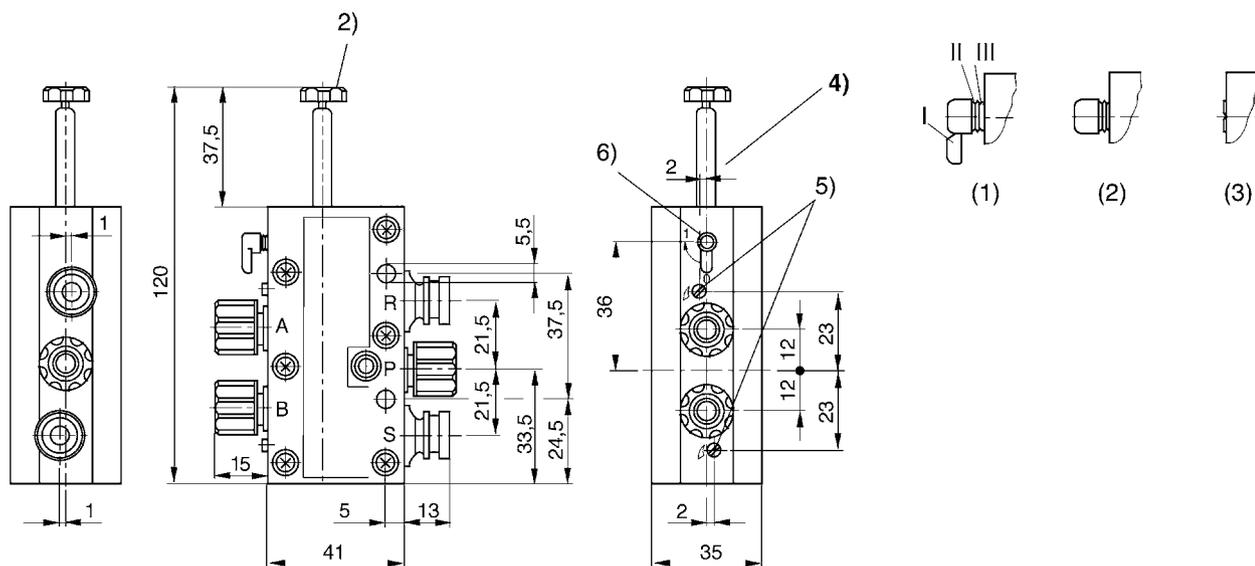
Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	230 V	230 V	-10% / +10%	-20% / +10%	-10% / +20%	2.14	6.6	5.5	4.18	3.3

	MO	Compressed air connection	Operating voltage			Power consumption	Hold-ing power	Hold-ing power	Switch-on power	Switch-on power	Part No.	
			Input	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]
		Ø 8x1	24 V	230 V	230 V	2.14	4.18	3.3	6.6	5.5	<b>R412009690</b>	

**5/2-directional valve, Series 740-BV**

▶  $Q_n = 700 \text{ l/min}$  ▶ pipe connection ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ single solenoid ▶ Pilot: internal

Part No.	Note
<b>R412009690</b>	1)
MO = Manual override 1) order quantity 25 pcs. Basic valve without coil Nominal flow $Q_n$ at 6 bar and $\Delta p = 1 \text{ bar}$	

**Dimensions**
**Fig. 1**


2) M 5 internal thread

4) coil can be plugged at 45° intervals

5) throttle screw for exhausts 5 (R) and 3 (S) (S)

6) manual override and position indicator

Fig. 1: manual override:

manual actuation: (1) with detent - push and turn into position 1 (2) without detent - remove segment 1 - push only  
actuation by tool: (3) with detent - remove segments up to III - push with tool and turn into position 1

D572\_740\_a

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740-BV

▶ Qn = 700 l/min ▶ pipe connection ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ double solenoid ▶ Pilot: internal



Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle, Plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Nominal flow Qn	700 l/min
Connector standard	EN 175301-803, form A
Protection class with connection	IP65
	Protected against polarity reversal
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	40 ms
Weight	0.319 kg
<b>Materials:</b>	
Housing	Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

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

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	230 V	230 V	-10% / +10%	-20% / +10%	-10% / +20%	2.14	6.6	5.5	4.18	3.3

	MO	Compressed air connection	Operating voltage			Power consumption	Hold-ing power	Hold-ing power	Switch-on power	Switch-on power	Part No.
			DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
		Input				[W]	[VA]	[VA]	[VA]	[VA]	
		Ø 8x1	24 V	230 V	230 V	2.14	4.18	3.3	6.6	5.5	R412009671

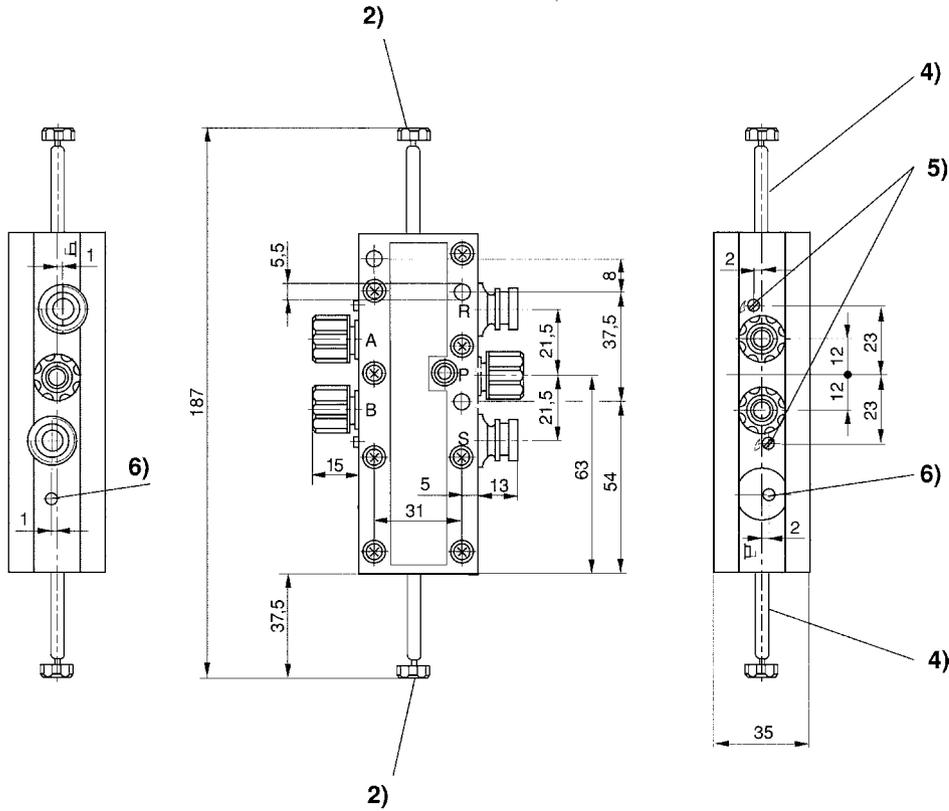
Part No.	Note
R412009671	1)

MO = Manual override  
 1) order quantity 25 pcs.  
 Basic valve without coil  
 Nominal flow Qn at 6 bar and Δp = 1 bar

### 5/2-directional valve, Series 740-BV

▶ Qn = 700 l/min ▶ pipe connection ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent ▶ double solenoid ▶ Pilot: internal

#### Dimensions



D572\_741\_a

- 2) M 5 internal thread
- 4) coil can be plugged at 45° intervals
- 5) throttle screw for exhausts 5 (R) and 3 (S) (S)
- 6) manual override and position indicator

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740-UL

▶ Qn = 700 l/min ▶ pipe connection ▶ Compressed air connection output: Ø3/8 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent, without detent ▶ single solenoid ▶ Pilot: internal



12904

Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Plate principle, Single base plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	36 ms
<b>Materials:</b>	
Housing	Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

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

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	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	8	6.5	4.8	3.6

	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]	
		Ø3/8	Ø3/8	M14x1	24 V	-	-	2.7	-	R432038437
					-	110 V	110 V	-	4.8	R432038419

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740-UL

▶ Qn = 700 l/min ▶ pipe connection ▶ Compressed air connection output: Ø3/8 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent, without detent ▶ single solenoid ▶ Pilot: internal

Part No.	Holding power		Switch-on power		Flow rate value Qn [l/min]	Weight [kg]
	AC 60 Hz [VA]	AC 50 Hz [VA]	AC 50 Hz [VA]	AC 60 Hz [VA]		
R432038437	-	-	-	-	700	0.317
R432038419	3.6	8	6.5			

MO = Manual override  
without electrical connector  
Protected against polarity reversal  
Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

### Dimensions

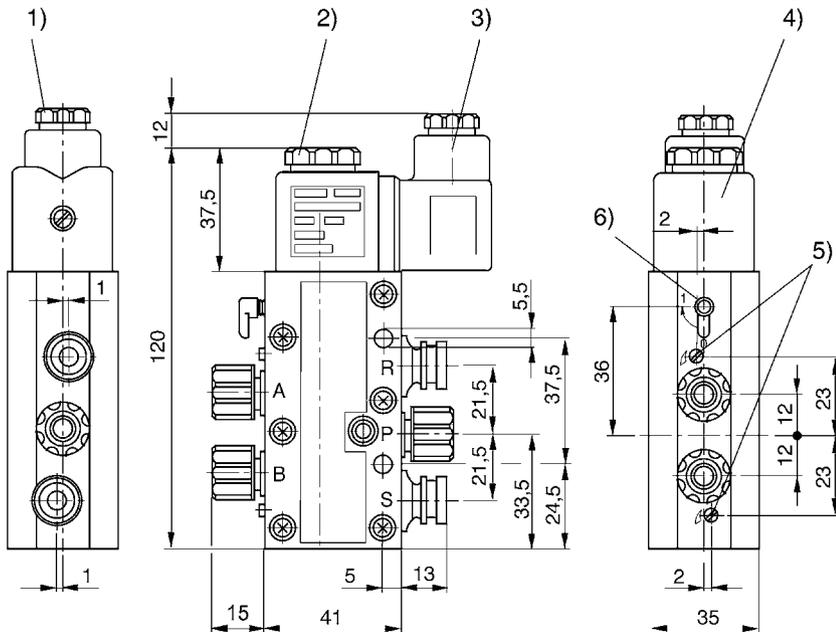
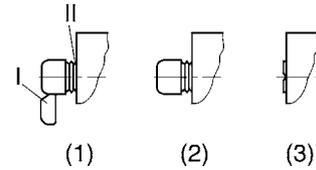


Fig. 1



- 1) gland fitting M16x1,5
- 2) M5 internal thread accessible under cap
- 3) el. connector can be rotated at 90° intervals
- 4) coil can be plugged at 45° intervals
- 5) throttle screw for exhausts 5 (R) and 3 (S) (S)
- 6) manual override and position indicator

Fig. 1: manual override:

manual actuation: (1) with detent - push and turn into position 1 (2) without detent - remove segment 1 - push only  
actuation by tool: (3) with detent - remove segments up to II - push with tool and turn into position 1

D572\_740

## Directional valves ▶ Electrically operated

### 5/2-directional valve, Series 740-UL

▶ Qn = 700 l/min ▶ pipe connection ▶ Compressed air connection output: Ø3/8 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent, without detent ▶ double solenoid ▶ Pilot: internal



11952

Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Plate principle, Single base plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	40 ms
<b>Materials:</b>	
Housing	Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

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

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	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	8	6.5	4.8	3.6

	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]	
		Ø3/8	Ø3/8	M14x1	24 V	-	-	2.7	-	R432038438
					-	110 V	110 V	-	4.8	R432038420

## Directional valves ▶ Electrically operated

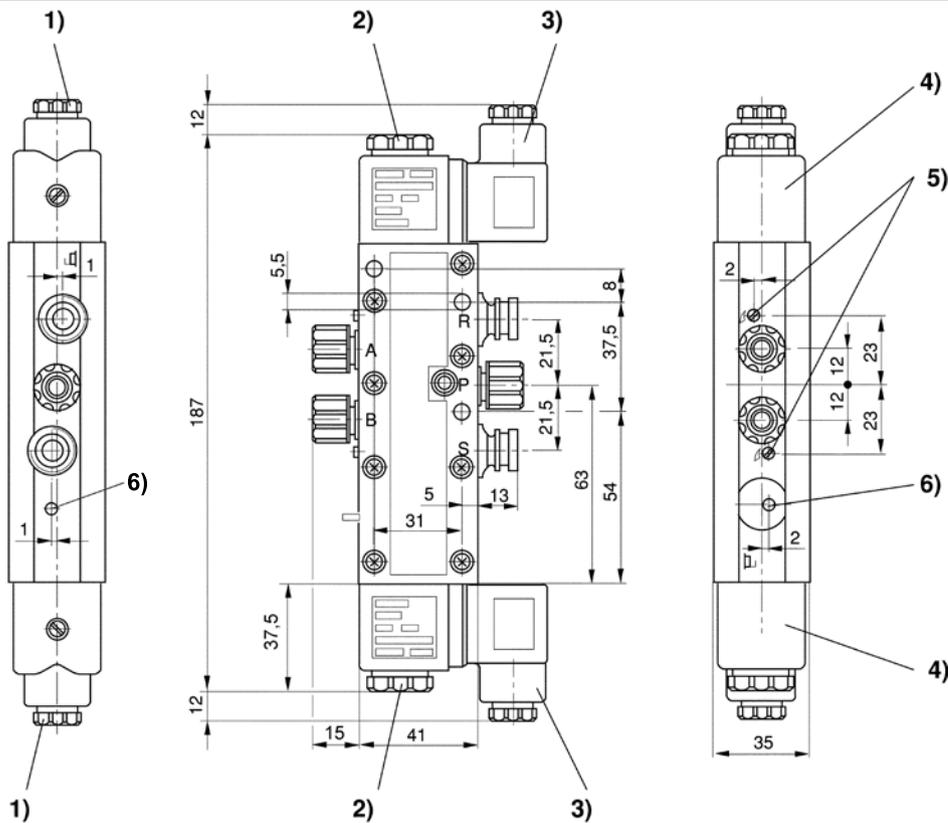
### 5/2-directional valve, Series 740-UL

▶  $Q_n = 700$  l/min ▶ pipe connection ▶ Compressed air connection output:  $\text{Ø}3/8$  ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent, without detent ▶ double solenoid ▶ Pilot: internal

Part No.	Holding power	Switch-on power		Flow rate value $Q_n$ [l/min]	Switch-off time [ms]	Weight [kg]
	AC 60 Hz [VA]	AC 50 Hz [VA]	AC 60 Hz [VA]			
R432038438	-	-	-	700	40	0.505
R432038420	3.6	8	6.5			

MO = Manual override  
without electrical connector  
Protected against polarity reversal  
Nominal flow  $Q_n$  at 6 bar and  $\Delta p = 1$  bar

### Dimensions



D572\_741

- 1) gland fitting M16x1,5
- 2) M5 internal thread accessible under cap
- 3) el. connector can be rotated at 90° intervals
- 4) coil can be plugged at 45° intervals
- 5) throttle screw for exhausts 5 (R) and 3 (S) (S)
- 6) manual override and position indicator

## Directional valves ▶ Electrically operated

### 5/4-directional valve, Series 740-UL

▶ Qn = 700 l/min ▶ pipe connection ▶ Compressed air connection output: Ø3/8 ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent, without detent ▶ double solenoid ▶ Pilot: internal



11952

Version	Diaphragm poppet valve
Sealing principle	Soft sealing
Blocking principle	Plate principle, Single base plate principle
Mounting on manifold strip	PRS strip
Working 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 - 5 mg/m³
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	54 ms
Weight	See table below
<b>Materials:</b>	
Housing	Polyoxymethylene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

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

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	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	8	6.5	4.8	3.6

	MO	Compressed air connection			Operating voltage			Power consumption	Hold-ing power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		Ø3/8	Ø3/8	M14x1	24 V	-	-	2.7	-	R432038439
					-	110 V	110 V	-	4.8	R432038421
		Ø3/8	Ø3/8	M14x1	24 V	-	-	2.7	-	R432038440
					-	110 V	110 V	-	4.8	R432038422

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

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## Directional valves ▶ Electrically operated

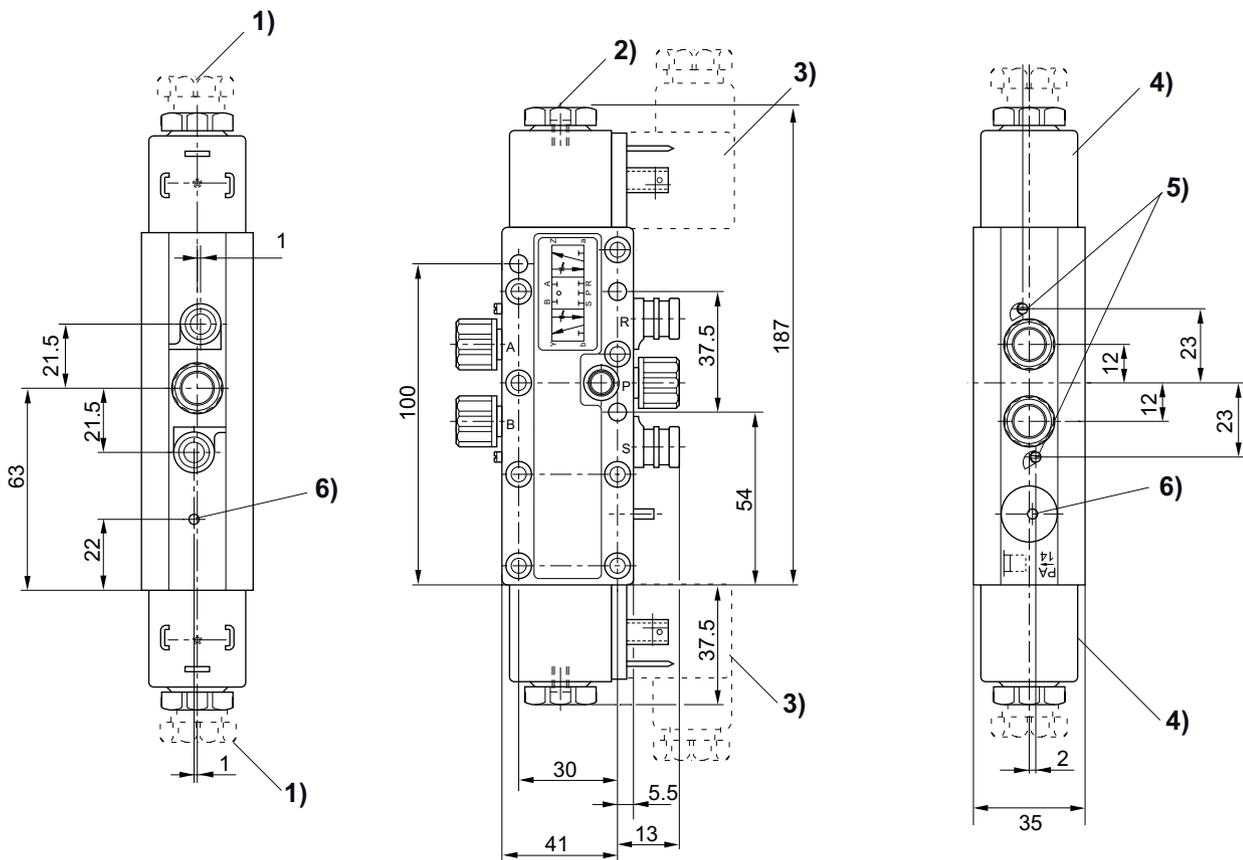
### 5/4-directional valve, Series 740-UL

▶  $Q_n = 700$  l/min ▶ pipe connection ▶ Compressed air connection output:  $\varnothing 3/8$  ▶ Electr. connection: Plug, EN 175301-803, form A ▶ with throttle ▶ Can be assembled into blocks ▶ Manual override: with detent, without detent ▶ double solenoid ▶ Pilot: internal

Part No.	Holding power		Switch-on power		Flow rate value Qn [l/min]	Weight [kg]
	AC 60 Hz [VA]	AC 50 Hz [VA]	AC 50 Hz [VA]	AC 60 Hz [VA]		
R432038439	-	-	-	-	700	0.501
R432038421	3.6	8	6.5	6.5		
R432038440	-	-	-	-	700	0.497
R432038422	3.6	8	6.5	6.5		

MO = Manual override  
without electrical connector  
Protected against polarity reversal  
Nominal flow  $Q_n$  at 6 bar and  $\Delta p = 1$  bar

### Dimensions



67717

- 1) gland fitting M16x1,5
- 2) M5 internal thread accessible under cap
- 3) el. connector can be rotated at 90° intervals
- 4) coil can be plugged at 45° intervals
- 5) throttle screw for exhausts 5 (R) and 3 (S) (S)
- 6) manual override and position indicator

## Directional valves ▶ Electrically operated

### Series 740 Accessories

#### Electrical connector, Series CN1 ▶ 18 mm ▶ ISO 4400 ▶ form A

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

-40°C / +90°C  
IP65  
0.4 Nm



00110264\_a

#### Technical Remarks

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

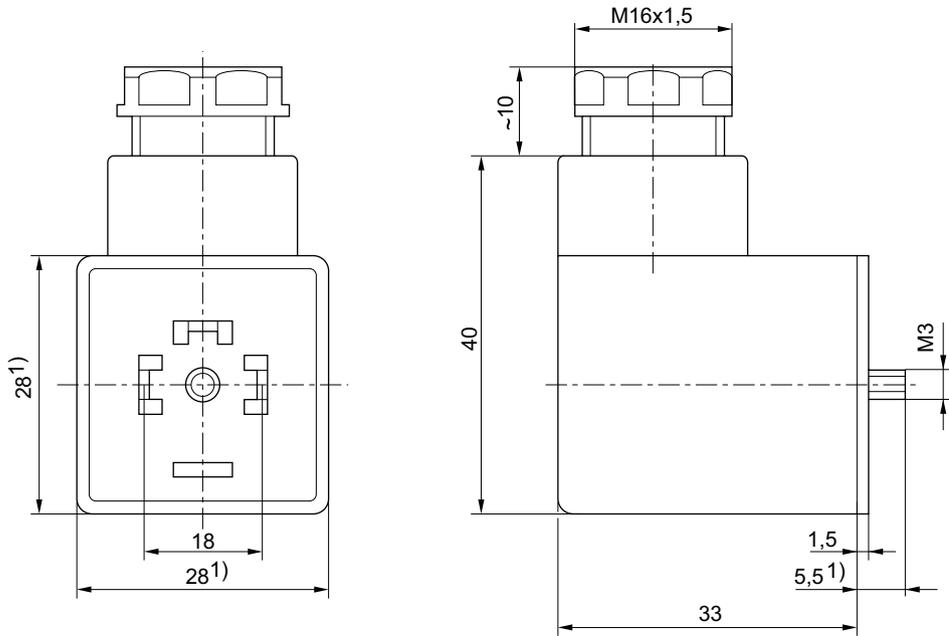
	Cable fitting	Operational voltage		Contact assignment	Cable exit	Protective circuit	suitable cable-Ø min./max	Part No.
		AC	DC					
		[V]	[V]					
	M16x1,5	24	24	2+E	angled 90°	Z-diode	6 / 8	<b>1834484101</b>
	M16x1,5	110 230	110 230	2+E	angled 90°	Varistor	6 / 8	<b>1834484102</b> <b>1834484103</b>

Part No.	number of plug options 1	Status display	LED status display	Housing color	Weight	Note
					[kg]	
<b>1834484101</b>	4 positions each 90°	1 LED	Yellow	Transparent	0.03	3); 4)
<b>1834484102</b> <b>1834484103</b>	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 740 Accessories

### Dimensions



00110274

1) Max.

## Connector with cable, Series CN1

▶ form A ▶ 18 mm

Ambient temperature min./max.

-20°C / +80°C

Protection class

IP67

Tightening torque for mounting screws

0.4 Nm



00110292\_b

### 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]							
	230	230	-	2+E	-	0.75	3	0.2	<b>1834484160</b>

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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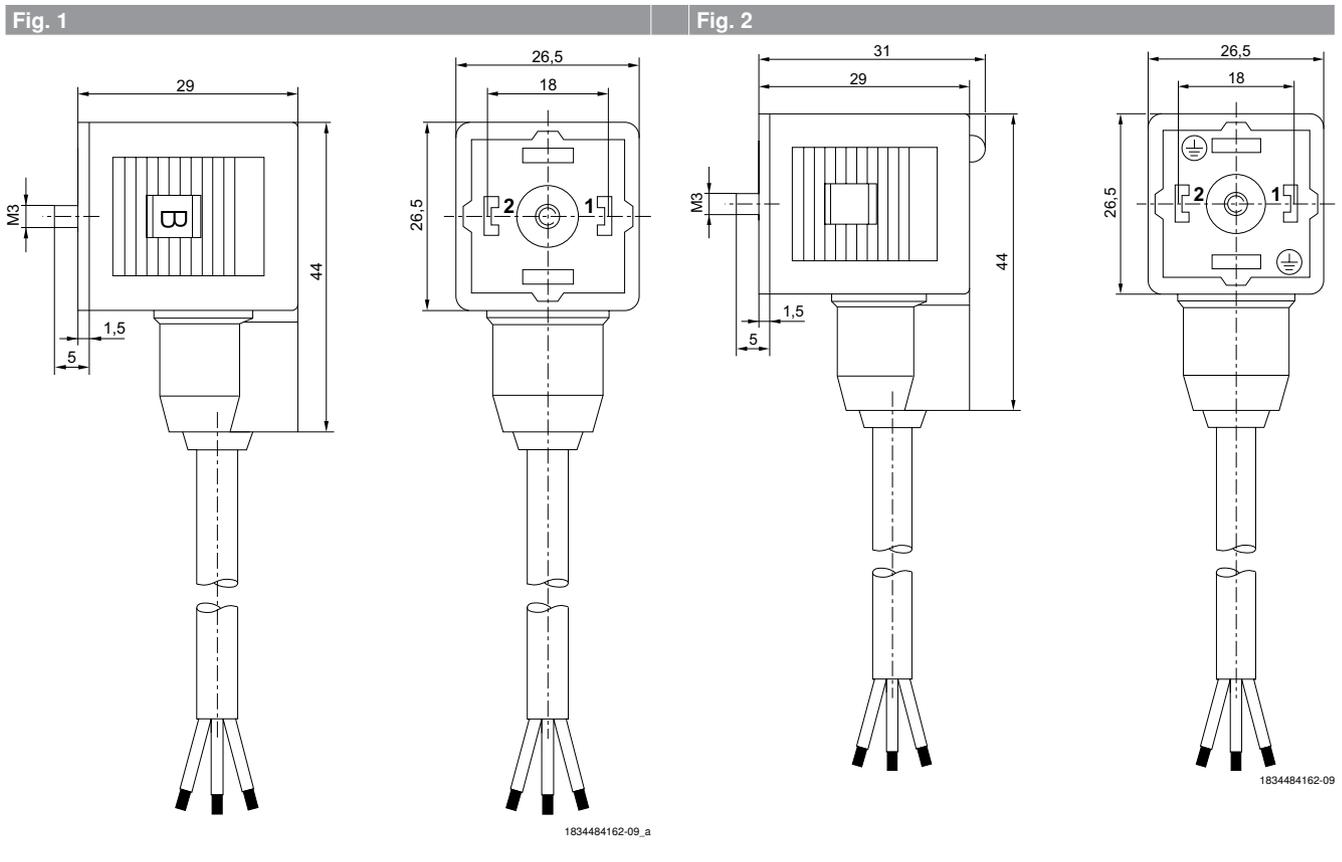
Directional valves ▶ Electrically operated

**Series 740**  
Accessories

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

Part No.	Fig.	Note
<b>1834484160</b>	Fig. 1	1)
<b>1834484162</b> <b>1834484163</b>	Fig. 2	-
<b>1834484164</b> <b>1834484165</b>	Fig. 2	-

1) Scope of delivery incl. flat gasket



### Series 740 Accessories

#### Coil, Series CO1

▶ form A ▶ Coil width 30 mm



00135727

Connector standard	EN 175301-803, form A
electrical connections	Plug
Ambient temperature min./max.	-- / +50°C
Protection class with electrical connector/plug	IP65
Duty cycle ED	100 %

Materials:	
Housing	Thermoplastic elastomer

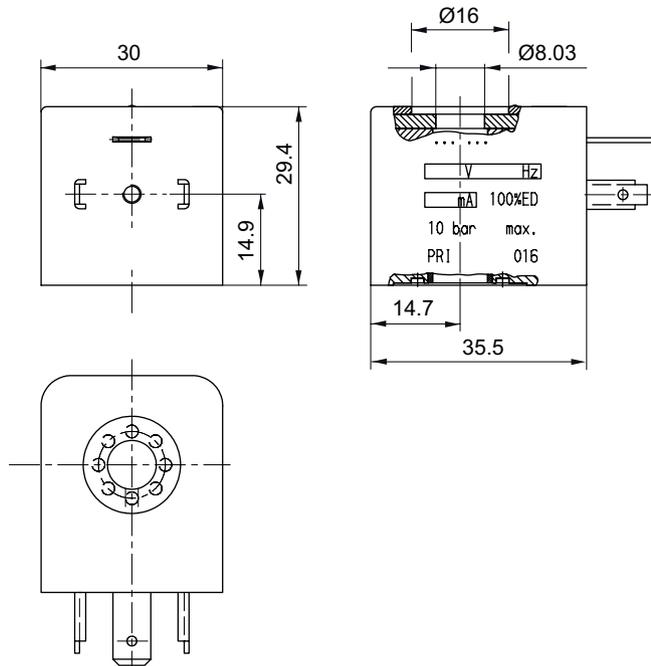
Operational voltage			Voltage tolerance			Power consumption	Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
						W	VA	VA
24 V	-	-	-10% / +10%	-	-	2.7	-	-
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	5.2	3.9
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	4.8	3.6
-	230 V	230 V	-	-20%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

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

Directional valves ▶ Electrically operated

**Series 740**  
Accessories

**Dimensions**



00135722

**Coil, Series CO1**

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



00115846

ATEX

Ambient temperature min./max.

Protection class

Duty cycle ED

Compatibility index CI

II 2G Ex mb IIC T4 Gb

II 2D Ex mb tb IIIC T 130°C Db IP65

-20°C / +50°C

IP65

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	-	-	

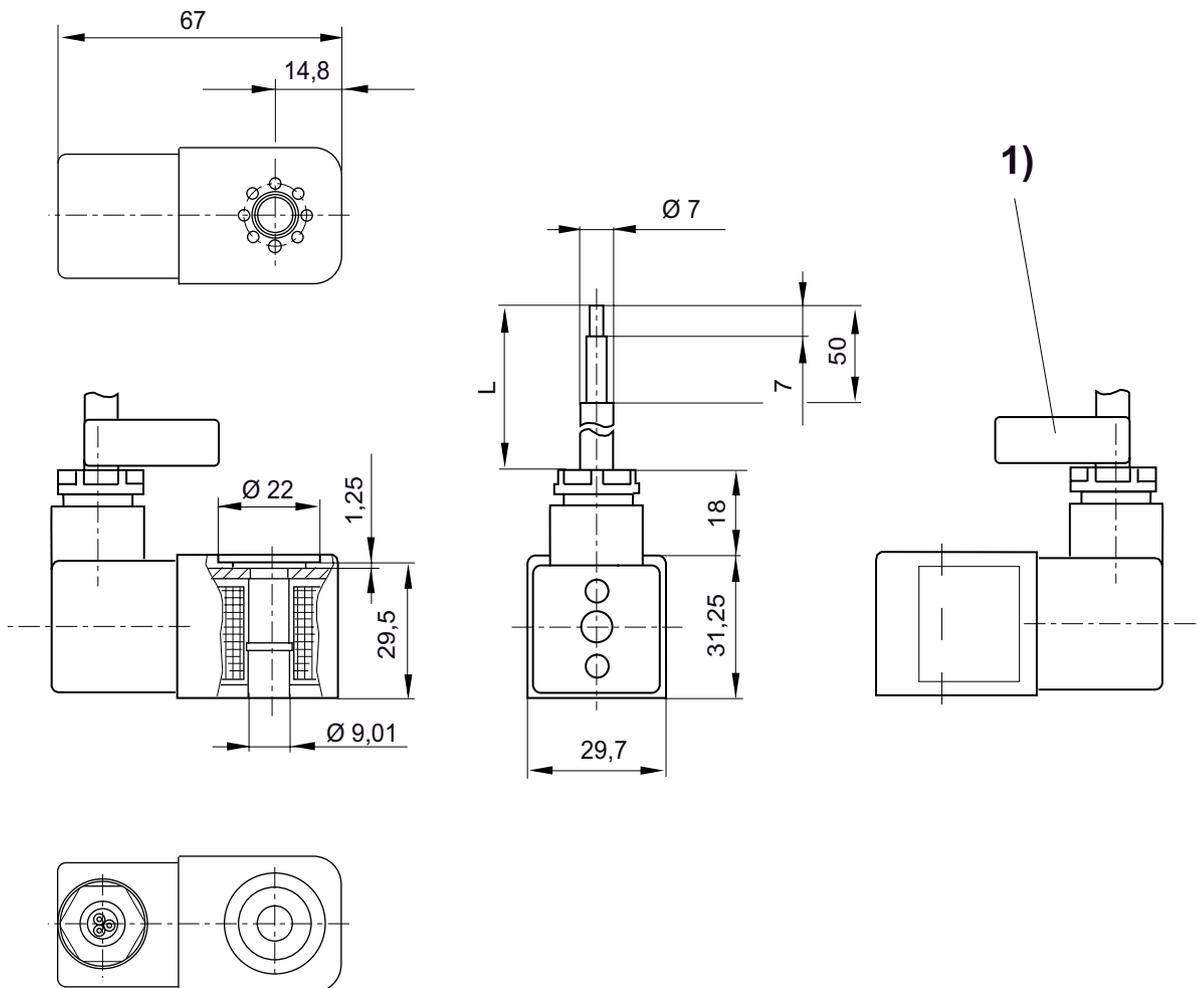
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## Series 740 Accessories

	Operational voltage			Cable length L	Weight	Part No.
	AC 50 Hz	DC	AC 60 Hz			
				[m]	[kg]	
	230 V	-	230 V	3	0.38	<b>1827414297</b>
	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	<b>1827414303</b>
	-	24 V	-	10	0.91	<b>1827414304</b>

### Dimensions



L = cable length

1) Cable ID band with serial number

00129906

Directional valves ▶ Electrically operated

**Series 740**  
Accessories

**Coil, Series CO1**

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



ATEX

Ambient temperature min./max.

Protection class

Duty cycle ED

Compatibility index CI

II 3G Ex nAc IIB T4

II 3D Ex tc IIIB T125°C IP65X

-10°C / +50°C

IP65

100 %

13

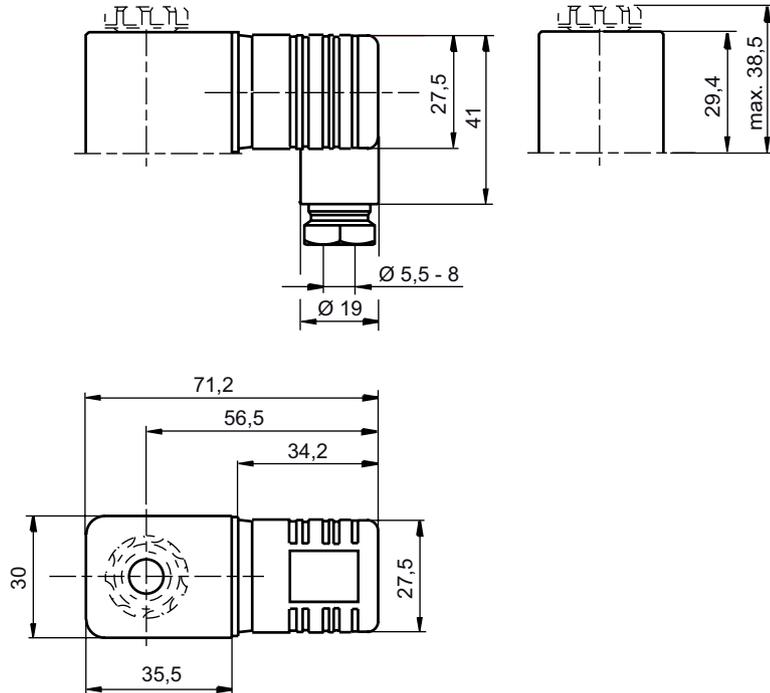
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Operational voltage			Voltage tolerance			Power consumption	Switch-on power	Holding power
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 50 Hz
						W	VA	VA
24 V	-	-	-10% / +10%	-	-	2.1	-	-
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	4	4
-	110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

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

### Series 740 Accessories

#### Dimensions



00129941

#### Subbases and accessories



5727-501

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

-15 °C / +50 °C  
Compressed air  
See table below

Materials:  
Base plate  
Seals

Polyoxymethylene  
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“.

Type	Working pressure min./max.	Weight [kg]	Part No.
Supply plate, complete with O-rings	0 / 10	0.245	<b>8985003902</b>
Supply plate, corrosion-protected, complete with O-rings	0 / 10	0.237	<b>8985003972</b>
Sandwich plate 740, complete with O-rings.	0 / 10	0.089	<b>8985003922</b>

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

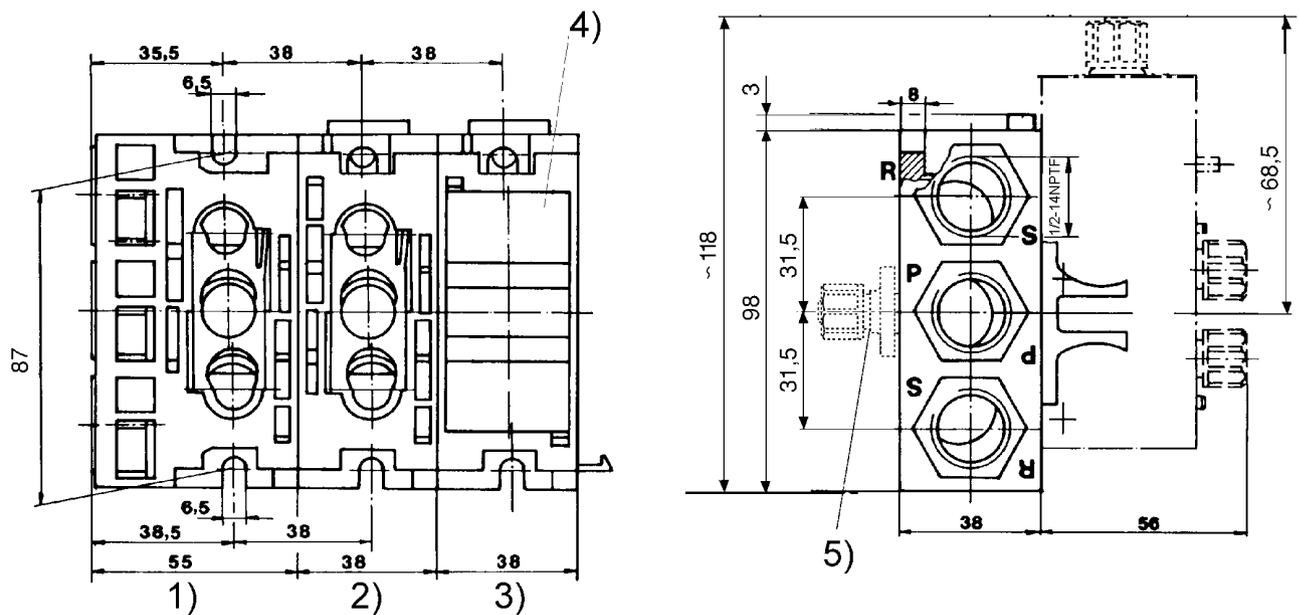
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## Directional valves ▶ Electrically operated

### Series 740 Accessories

Type	Working pressure min./max.	Weight [kg]	Part No.
End plate	0 / 10	0.092	<b>8985003912</b>
Dummy flange for reserve places complete with seals	0 / 10	0.033	<b>5727406012</b>
Adapter for separate air supply	-	0.008	<b>8939102500</b>
Sealing kit: 10 O-rings, connection "R" and "S", 5 O-rings, connection "P" Ø 8 mm, 5 O-rings, connection "P" Ø 10 mm	0 / 10	0.009	<b>5727400092</b>

### Dimensions



Tightening torque for all screws max. 35 Nm

- 1) Inlet plate
- 2) Through plate
- 3) End plate
- 4) Dummy flange
- 5) Adapter for separate air supply

D898\_397\_NPTF

### Adapter for contact bridges



P894\_605

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

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 740 Accessories

Part No.	Type	Protection class	Interface 1	Interface 2	Operational voltage DC, max. [V]	Max. current [A]	Ambient temperature min./max.
<b>8946053622</b>	from form A to form C	IP65	Electrical connector Form A	electrical connector form C	42	5	-25 / +50

Part No.	Material										
<b>8946053622</b>	Polyamide										

### Contact bridge

▶ Control: plug M12 ▶ Plug, M12x1, 4-pin ▶ Number of solenoid coils: 1



P576\_357

Ambient temperature min./max.	-15 °C / +50 °C
Protection class	IP65
Protective circuit	43 V bi-directional
DC operating voltage	24 V
Operational voltage AC at 50 Hz	24 V
Operational voltage AC at 60 Hz	24 V
Voltage tolerance DC	-20% / +20%
Voltage tolerance AC 50 Hz	-10% / +10%
Voltage tolerance AC 60 Hz	-10% / +10%
Valve LED status display	Yellow
Mounting screw	M2.5 with slot
Tightening torque for mounting screws [+0,05]	0.25 Nm

#### Materials:

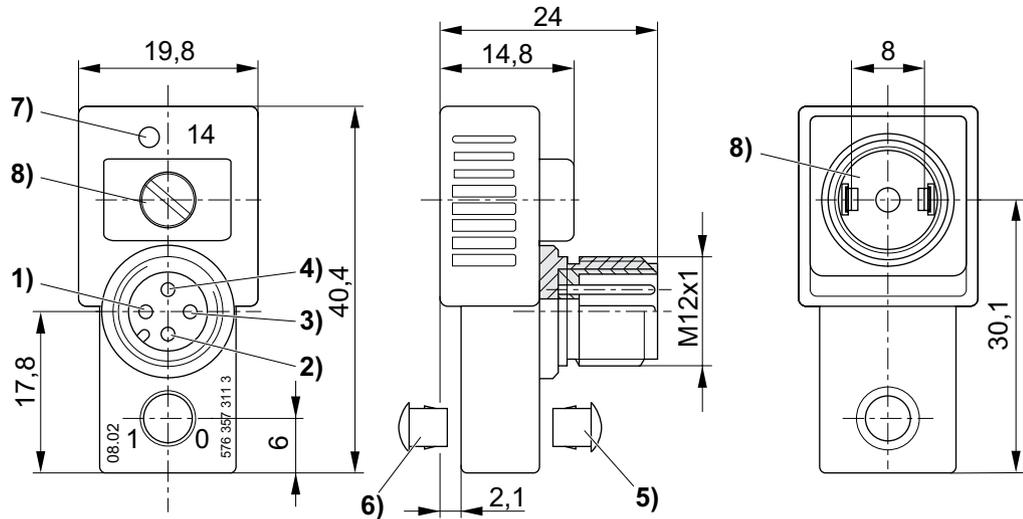
Housing	Polyester amide
Seals	Fluorocautchouc

Port	Weight	Part No.
to valve		
	[kg]	
Electrical connector, ISO 15217, form C	0.016	<b>5763573113</b>

## Directional valves ▶ Electrically operated

### Series 740 Accessories

#### Dimensions



D576\_357

- 1) not assigned
- 2) not assigned
- 3) ground
- 4) magnet 14
- 5) Sealing cap for manual override not removable
- 6) Removable
- 7) LED valve
- 8) captive seal and screw

## Contact bridge

▶ Control: Multipole ▶ Plug, Snap Ø8, 3-pin ▶ Number of solenoid coils: 1



5763-631

Ambient temperature min./max.	-25°C / +75°C
Protection class	IP65
Protective circuit	43 V bi-directional
DC operating voltage	24 V
Voltage tolerance DC	-20% / +20%
Valve LED status display	Yellow
Mounting screw	M2.5 with slot
Tightening torque for mounting screws [+0,05]	0.25 Nm

Materials:	
Housing	Polyester amide
Seals	Fluorocaoutchouc

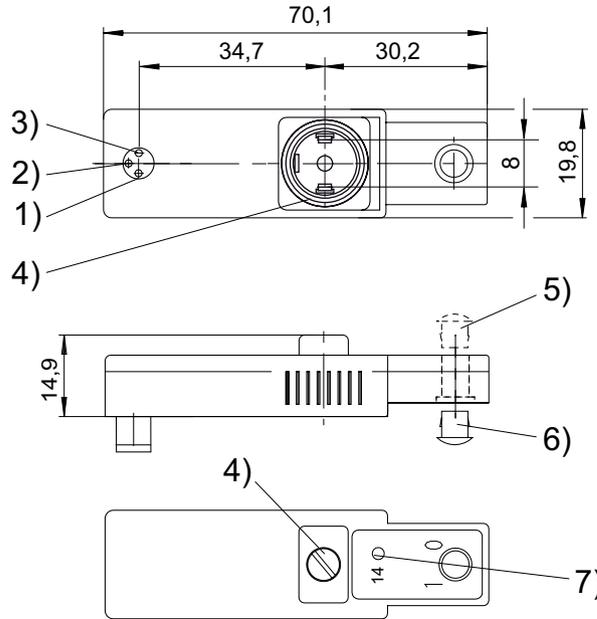
#### Technical Remarks

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

Port	Wire cross-section	Weight	Part No.
to valve	[mm <sup>2</sup> ]	[kg]	
Electrical connector, ISO 15217, form C	0.14	0.012	<b>5763503183</b>

**Series 740**  
Accessories

Dimensions



D573\_318

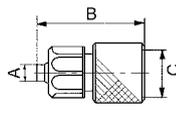
- 1) solenoid 14 2) not assigned 3) ground  
4) captive seal and screw 5) sealing cap for manual override not removable 6) removable 7) LED valve

**Fittings - Accessories, Series 740**

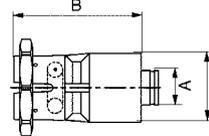


p893\_900

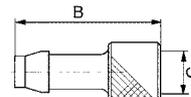
**Fig. 1**



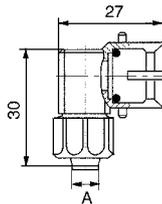
**Fig. 2**



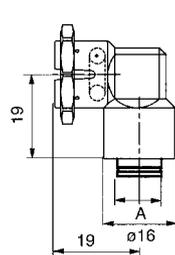
**Fig. 3**



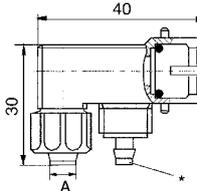
**Fig. 4**



**Fig. 5**



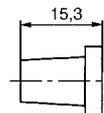
**Fig. 6**



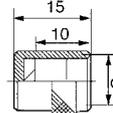
**Fig. 7**



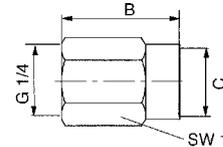
**Fig. 8**



**Fig. 9**



**Fig. 10**



D893\_900

**Directional valves ▶ Electrically operated**
**Series 740  
Accessories**

Part No.	Type	Ø A	B	C	Fig.				
<b>8939008500</b>	Reducing fitting Ø 8x1 to Ø 6x incl. O-ring	4	25	M12x1	Fig. 1				
8939008510	Reducing fitting Ø 10x1 to Ø 6x1 incl. O-ring	4	26	M14x1	Fig. 1				
<b>8939008520</b>	Reducing fitting Ø 10x1 to Ø 8x1 incl. O-ring	6	27	M14x1	Fig. 1				
<b>8938000910</b>	Reducing fitting Ø 8x1 to Ø 6x1, push-in incl. O-ring	6	29.5	–	Fig. 2				
<b>8938000920</b>	Reducing fitting Ø 8x1 to Ø 8x1, push-in incl. O-ring	8	29.5	–	Fig. 2				
<b>8939008800</b>	fitting, for port R and S for 8x1	6	24	M14x1	Fig. 1				
8931220200	Tubing connector for fabric-reinforced tubing Ø 8x3, incl. O-Ring	8	33	M12x1	Fig. 3				
<b>8938306520</b>	elbow fitting Ø 10x1 to Ø 6x1, incl. O-ring	4	–	–	Fig. 4				
<b>8938306530</b>	elbow fitting Ø 10x1 to Ø 8x1, incl. O-ring	6	–	–	Fig. 4				
<b>8938306540</b>	elbow fitting Ø 10x1 to Ø 10x1, incl. O-ring	8	–	–	Fig. 4				
<b>8938306550</b>	elbow fitting Ø 8x1 to Ø 6x1, push-in, incl. O-ring	6	–	–	Fig. 5				
<b>8938306560</b>	elbow fitting Ø 8x1 to Ø 8x1, push-in, incl. O-ring	8	–	–	Fig. 5				
<b>8938307900</b>	Elbow fitting, 2x, plastic tubing Ø 6x1 for supply plate	4	–	–	Fig. 6				
<b>8938307800</b>	Elbow fitting, 2x, plastic tubing Ø 8x1 for supply plate	6	–	–	Fig. 6				
<b>8919905404</b>	tube nut, Ø 8x1	–	–	M12x1	Fig. 7				
<b>8919905414</b>	tube nut, Ø 10x1	–	–	M14x1	Fig. 7				
<b>8993809904</b>	Silencers	–	–	–	Fig. 8				
<b>8919905502</b>	Screw plug, Ø 8x1	–	–	M12x1	Fig. 9				
<b>8919905512</b>	Screw plug, Ø 10x1	–	–	M14x1	Fig. 9				
<b>8932404100</b>	Adapter, Ø 8x1, G 1/4, incl. O-ring	–	27	M12x1	Fig. 10				

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29-11-2016

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. © AVENTICS S.à r.l.  
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