

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



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

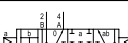
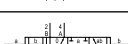
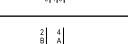
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- 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	-	5727500220
		Ø 10x1	Ø 10x1		24 V	-	-	2.1	-	5727550220
		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		-	-	-	-	-	5727505302
		Ø 10x1	Ø 10x1		-	-	-	-	-	5727555302

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	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 -	- 230 V	- 230 V	2.1 -	- 4.18	5727510220 5727515280
		Ø 10x1	Ø 10x1	M14x1	24 V	-	-	2.1	-	5727560920
		Ø 8x1	Ø 8x1	M14x1	-	-	-	-	-	5727515302
		Ø 10x1	Ø 10x1	M14x1	-	230 V	230 V	-	4.18	5727565280
		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]		[kg]		
5727500220	-	-	-	700	13, 14	0.551	Fig. 1	1); 4)
5727550220	-	-	-	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)
5727505302	-	-	-	700	14	0.318		3); 5)
5727555302	-	-	-	950	14	0.317		3); 5)
5727510220	-	-	-	700	13, 14	0.547	Fig. 1	1); 4)
5727515280	3.3	6.6	5.5	700	14	0.539		1); 4)
5727560920	-	-	-	950	14	0.551	Fig. 2	2); 4)
5727515302	-	-	-	700	14	0.317	Fig. 1	3); 5)
5727565280	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

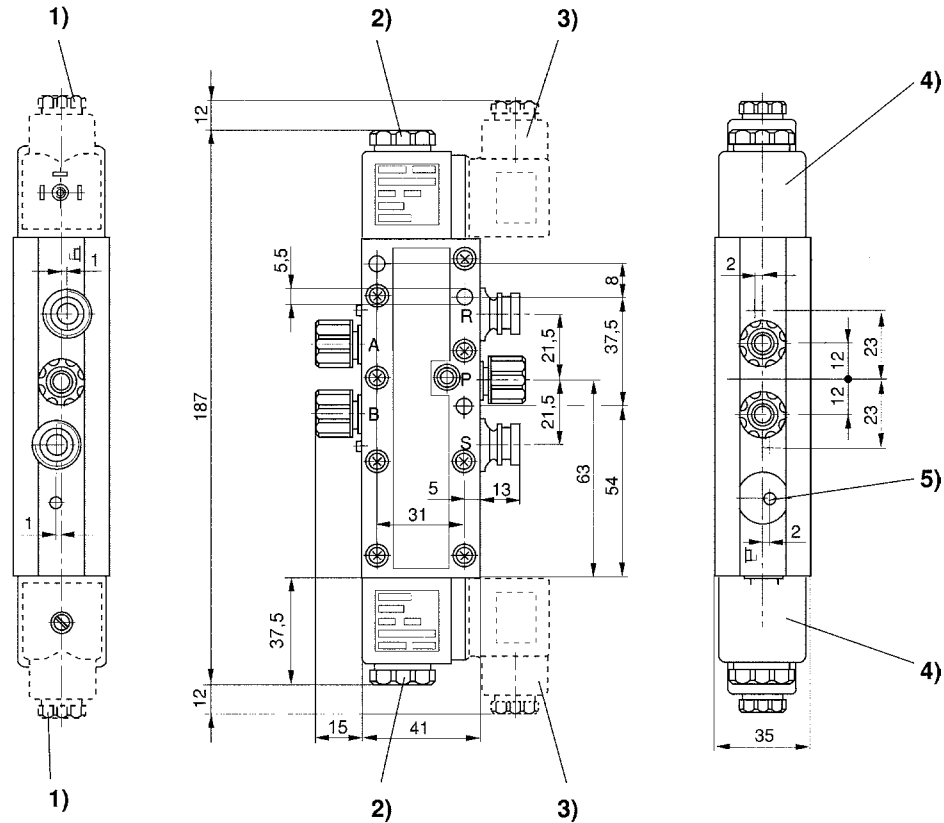
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves ▶ Electrically operated

5/4-directional valve, Series 740

▶ 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

Fig. 1



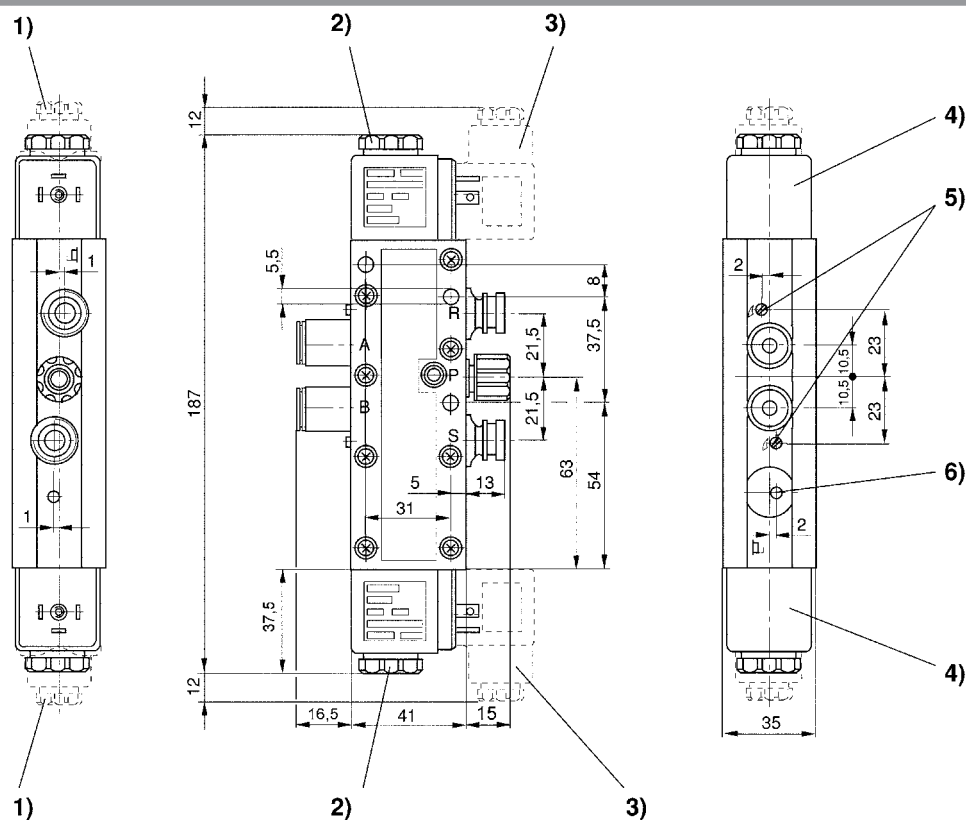
- 1) gland fitting M16x1,5
- 2) M5 internal thread accessible under cap
- 3) el. connector can be fixed at 90° intervals
- 4) coil can be mounted at 45° intervals
- 5) throttle screw for exhausts 5 (R) and 3 (S)
- 6) manual override and position indicator

D572_750

5/4-directional valve, Series 740

► $Q_n = 700 - 950 \text{ l/min}$ ► pipe connection ► Compressed air connection output: $\varnothing 8 \times 1 - \varnothing 10 \times 1$ ► 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