

5/4-directional valve, Series 740

- ATEX optional
- 5/4
- Qn = 700-950 l/min
- closed center
- Pipe connection
- Compressed air connection output : Ø 8x1 Ø 10x1
- Electrical connection : Plug, EN 175301-803, form A
- Can be assembled into blocks
- Manual override : without detent
- Pilot : Internal



Type	Diaphragm poppet valve
Activation	Electrically
Pilot	Internal
Sealing principle	Soft sealing
Blocking principle	Plate principle Single base plate principle
Working pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	See table below
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	54 ms
Mounting on manifold strip	PRS strip
Weight	See table below

Technical data

Part No.		MO		Compressed air connection	
				Input	
5727500220			closed center	Ø 8x1	
5727550220			closed center	Ø 10x1	
5727505280			closed center	Ø 8x1	
5727555280			closed center	Ø 10x1	
5727505302			closed center	Ø 8x1	
5727555302			closed center	Ø 10x1	
5727510220			-	Ø 8x1	
5727515280			-	Ø 8x1	
5727560920			-	Ø 10x1	
5727515302			-	Ø 8x1	
5727565280			-	Ø 10x1	
5727565302			-	Ø 10x1	

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
5727500220	Ø 8x1	M14x1
5727550220	Ø 10x1	M14x1
5727505280	Ø 8x1	M14x1
5727555280	Ø 10x1	M14x1
5727505302	Ø 8x1	M14x1
5727555302	Ø 10x1	M14x1
5727510220	Ø 8x1	M14x1
5727515280	Ø 8x1	M14x1
5727560920	Ø 10x1	M14x1
5727515302	Ø 8x1	M14x1
5727565280	Ø 10x1	M14x1
5727565302	Ø 10x1	M14x1

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5727500220	24 V	-	-
5727550220	24 V	-	-
5727505280	-	230 V	230 V
5727555280	-	230 V	230 V
5727505302	-	-	-
5727555302	-	-	-
5727510220	24 V	-	-
5727515280	-	230 V	230 V
5727560920	24 V	-	-
5727515302	-	-	-
5727565280	-	230 V	230 V
5727565302	-	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5727500220	-10% / +10%	-	-	2,1 W
5727550220	-10% / +10%	-	-	2,1 W
5727505280	-	-20% / +10%	-10% / +20%	-
5727555280	-	-20% / +10%	-10% / +20%	-
5727505302	-	-	-	-
5727555302	-	-	-	-
5727510220	-10% / +10%	-	-	2,1 W
5727515280	-	-20% / +10%	-10% / +20%	-
5727560920	-10% / +10%	-	-	2,1 W
5727515302	-	-	-	-
5727565280	-	-20% / +10%	-10% / +20%	-
5727565302	-	-	-	-

Part No.	Holding power	Holding power	Switch-on power	Switch-on power	Nominal flow Qn
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
5727500220	-	-	-	-	700 l/min
5727550220	-	-	-	-	950 l/min
5727505280	4,18 VA	3,3 VA	6,6 VA	5,5 VA	700 l/min
5727555280	4,18 VA	3,3 VA	6,6 VA	5,5 VA	950 l/min
5727505302	-	-	-	-	700 l/min
5727555302	-	-	-	-	950 l/min
5727510220	-	-	-	-	700 l/min
5727515280	-	-	-	-	700 l/min
5727560920	-	-	-	-	950 l/min
5727515302	-	-	-	-	700 l/min
5727565280	-	-	-	-	950 l/min
5727565302	-	-	-	-	950 l/min

Part No.	Compatibility index	Valve plug connector	basic valve with electrical connector
5727500220	13 14	With valve plug connector	-
5727550220	13 14	With valve plug connector	-
5727505280	14	With valve plug connector	-
5727555280	14	With valve plug connector	-
5727505302	14	-	Basic valve without coil
5727555302	14	-	Basic valve without coil
5727510220	13 14	With valve plug connector	-
5727515280	14	With valve plug connector	-
5727560920	14	Without valve plug connector	-
5727515302	14	-	Basic valve without coil
5727565280	14	With valve plug connector	-
5727565302	14	-	Basic valve without coil

Part No.	Reverse polarity protection	ATEX	Weight	Fig.
5727500220	Protected against polarity reversal	-	0,551 kg	Fig. 1
5727550220	Protected against polarity reversal	-	0,547 kg	Fig. 1
5727505280	Protected against polarity reversal	-	0,541 kg	Fig. 1
5727555280	Protected against polarity reversal	-	0,539 kg	Fig. 1

Part No.	Reverse polarity protection	ATEX	Weight	Fig.
5727505302	-	ATEX optional	0,318 kg	Fig. 1
5727555302	-	ATEX optional	0,317 kg	Fig. 1
5727510220	Protected against polarity reversal	-	0,547 kg	Fig. 1
5727515280	Protected against polarity reversal	-	0,539 kg	Fig. 1
5727560920	Protected against polarity reversal	-	0,551 kg	Fig. 2
5727515302	-	ATEX optional	0,317 kg	Fig. 1
5727565280	Protected against polarity reversal	-	0,541 kg	Fig. 1
5727565302	-	ATEX optional	0,318 kg	Fig. 1

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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. Further information can be found in the "Technical information" document (available in the MediaCentre).

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:

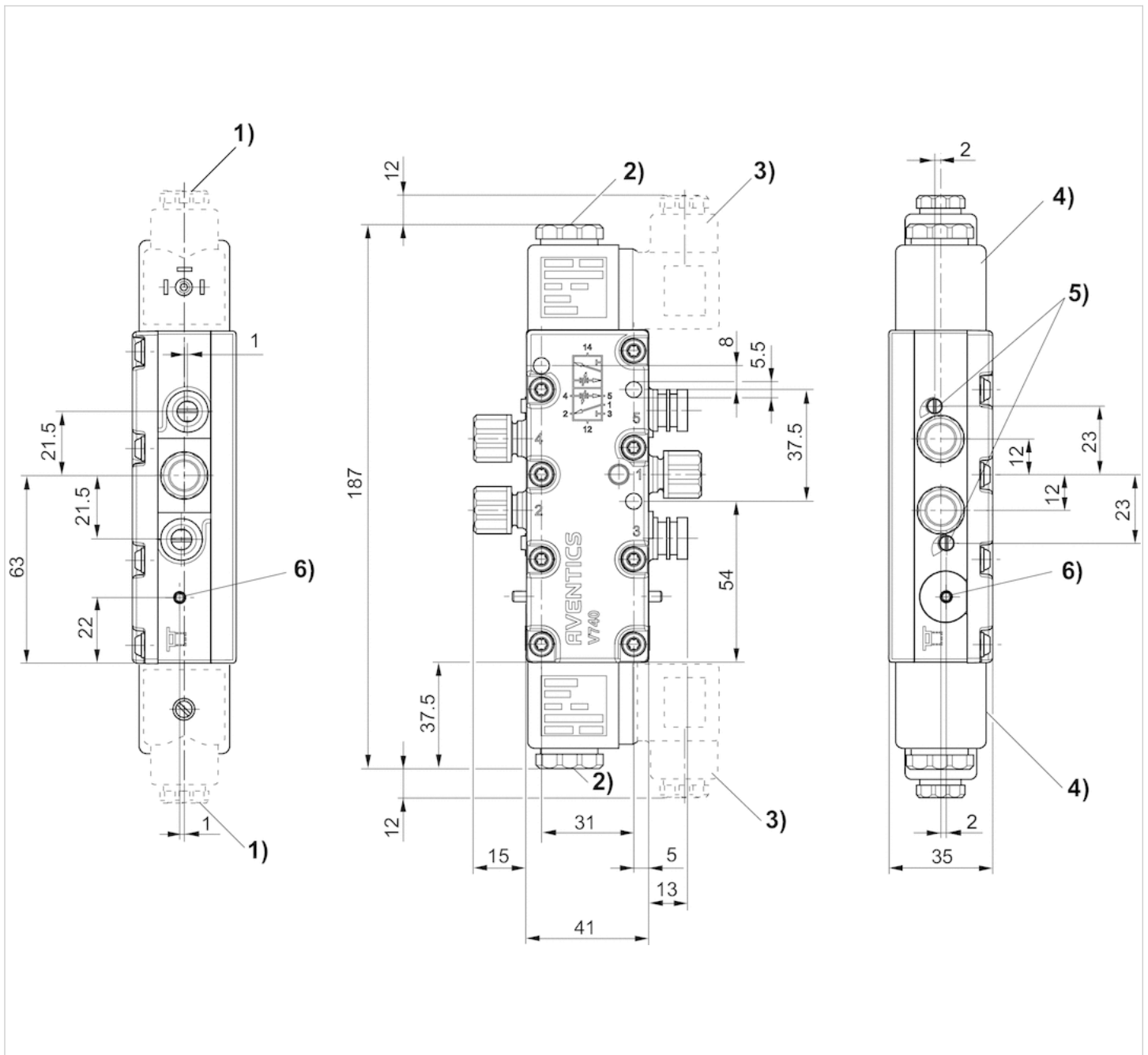
In order to ensure the operating function of the valve, do not fall below the minimum operating pressure of 3 bar !

Technical information

Material	
Housing	Polyoxymethylene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions, 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

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2020-12



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