












5/2-directional valve, Series 740

- Qn = 700-950 l/min
- 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, with detent
- single solenoid
- with air spring return
- Pilot : internal



Version	Diaphragm poppet valve
Activation	Electrically
Pilot	internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle Plate principle
ATEX class G	II 3G3D EEX nA IIB T4 IP65 T125 °C X
Working pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-25 ... 50 °C
Medium temperature min./max.	-25 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
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	17 ms
Typ. switch-off time	24 ms
Mounting on manifold strip	PRS strip
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	
			Input	Output
5727400220		TR-TR-TR-TR-TR-TR-TR-TR-TR-TR	Ø 8x1	Ø 8x1
5727400420			Ø 8x1	Ø 8x1
5727420220			Ø 8x1	Ø 8x1
5727450220			Ø 10x1	Ø 10x1
5727450420			Ø 10x1	Ø 10x1
5727405280			Ø 8x1	Ø 8x1
5727405480			Ø 8x1	Ø 8x1
5727455280			Ø 10x1	Ø 10x1
5727455480			Ø 10x1	Ø 10x1
5727405302			TR-TR-TR-TR-TR-TR-TR-TR-TR-TR	Ø 8x1
5727455302		TR-TR-TR-TR-TR-TR-TR-TR-TR-TR	Ø 10x1	Ø 10x1

Part No.	Compressed air connection		Operational voltage	
	Exhaust		DC	AC 50 Hz
5727400220	M14x1		24 V	-
5727400420	M14x1		24 V	-
5727420220	M14x1		24 V	-
5727450220	M14x1		24 V	-
5727450420	M14x1		24 V	-
5727405280	M14x1		-	230 V
5727405480	M14x1		-	230 V
5727455280	M14x1		-	230 V
5727455480	M14x1		-	230 V
5727405302	M14x1		-	-
5727455302	M14x1		-	-

Part No.	Operational voltage		Voltage tolerance	
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5727400220	-	-10% / +10%	-	-
5727400420	-	-10% / +10%	-	-
5727420220	-	-10% / +10%	-	-
5727450220	-	-10% / +10%	-	-
5727450420	-	-10% / +10%	-	-
5727405280	230 V	-	-20% / +10%	-10% / +20%
5727405480	230 V	-	-20% / +10%	-10% / +20%
5727455280	230 V	-	-20% / +10%	-10% / +20%
5727455480	230 V	-	-20% / +10%	-10% / +20%
5727405302	-	-	-	-
5727455302	-	-	-	-

Part No.	Power consumption		Holding power		Switch-on power AC 50 Hz
	DC	AC 50 Hz	AC 60 Hz	AC 60 Hz	
5727400220	2,1 W	-	-	-	-
5727400420	2,1 W	-	-	-	-
5727420220	2,1 W	-	-	-	-
5727450220	2,1 W	-	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5727450420	2,1 W	-	-	-
5727405280	2,1 W	4,18 VA	3,3 VA	6,6 VA
5727405480	2,1 W	4,18 VA	3,3 VA	6,6 VA
5727455280	2,1 W	4,18 VA	3,3 VA	6,6 VA
5727455480	2,1 W	4,18 VA	3,3 VA	6,6 VA
5727405302	-	-	-	-
5727455302	-	-	-	-

Part No.	Switch-on power	Nominal flow Qn	Compatibility index	Throttle
	AC 60 Hz			
5727400220	-	700 l/min	13 14	with throttle
5727400420	-	700 l/min	13 14	with throttle
5727420220	-	700 l/min	13 14	with throttle
5727450220	-	950 l/min	14 14	with throttle
5727450420	-	950 l/min	13 14	with throttle
5727405280	5,5 VA	700 l/min	14	with throttle
5727405480	5,5 VA	700 l/min	14	with throttle
5727455280	5,5 VA	950 l/min	14	with throttle
5727455480	5,5 VA	950 l/min	14	with throttle
5727405302	-	700 l/min	14	with throttle
5727455302	-	950 l/min	14	with throttle

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

1) ATEX optional

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.

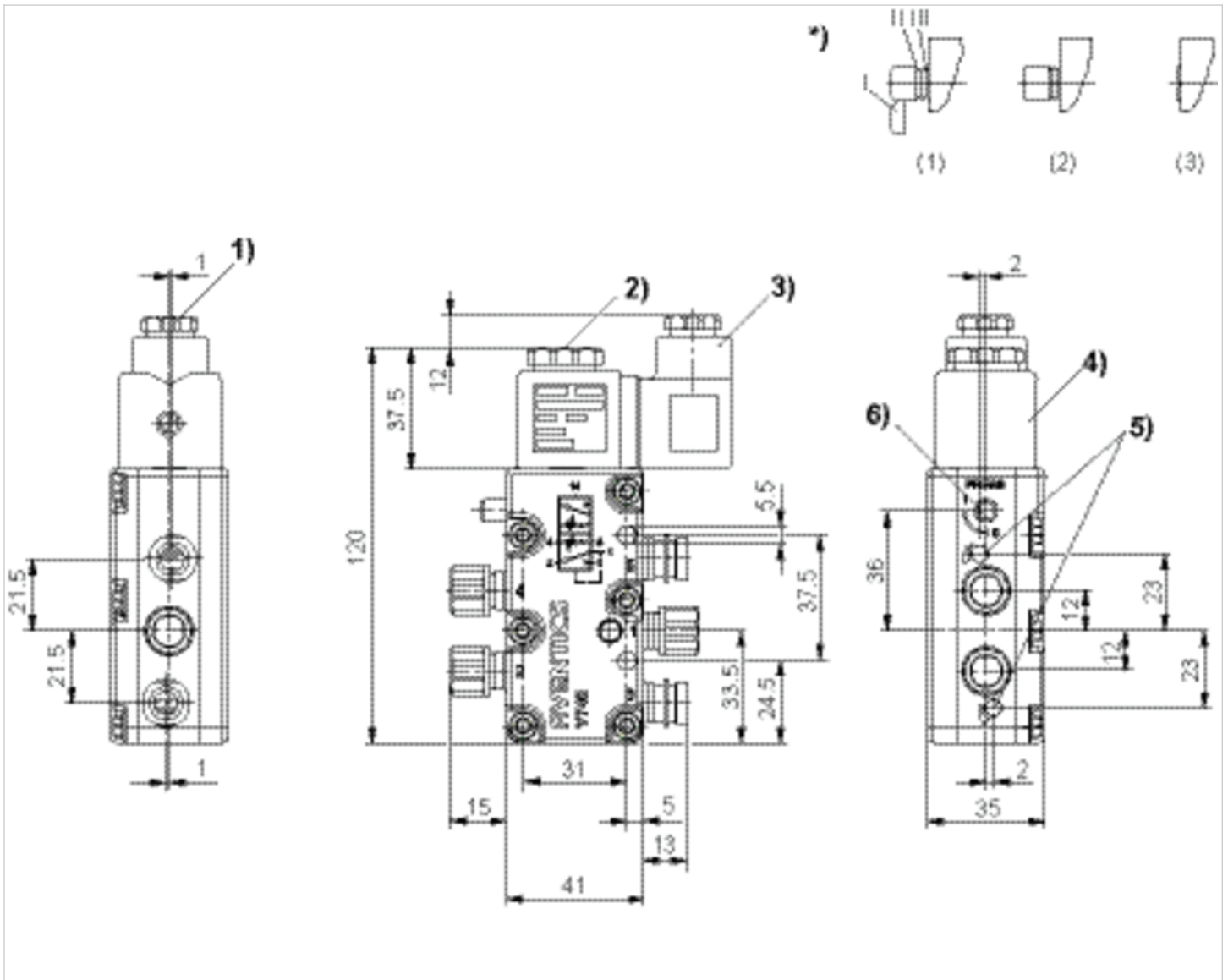
Technical information

Material

Housing	Polyarylamide Polyoxymethylene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



1) Gland fitting M16x1.52) M5 internal thread accessible under cap3) Valve plug connector can be rotated at 90° intervals4) Coil can be plugged at 45° intervals5) Flow control screw for exhausts 5 (R) and 3 (S)6) Manual override and position indicator*) Manual override: Manual actuation: (1) with detent - push and turn into position 1 (2) without detent - remove segment I - push only Actuation with tool: (3) with detent - remove segments up to II - push with tool and turn into position 1
























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- Qn = 700-950 l/min
- 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 : with detent
- Double solenoid
- Pilot : internal



Version	Diaphragm poppet valve
Activation	Electrically
Pilot	internal
Sealing principle	Soft sealing
Blocking principle	Plate principle Single base plate principle
ATEX class G	II 3G3D EEX nA IIB T4 IP65 T125 °C X
Working pressure min./max.	1,5 ... 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/m ³
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	40 ms
Mounting on manifold strip	PRS strip
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	
			Input	Output
5727410220			Ø 8x1	Ø 8x1
5727410420			Ø 8x1	Ø 8x1
5727460220			Ø 10x1	Ø 10x1
5727460420			Ø 10x1	Ø 10x1
5727415280			Ø 8x1	Ø 8x1
5727440220			Ø 8x1	Ø 8x1
5727415480			Ø 8x1	Ø 8x1
5727465280			Ø 10x1	Ø 10x1
5727465480			Ø 10x1	Ø 10x1
5727415302			Ø 8x1	Ø 8x1
5727465302			Ø 10x1	Ø 10x1

Part No.	Compressed air connection		Operational voltage	
	Exhaust		DC	AC 50 Hz
5727410220	M14x1		24 V	-
5727410420	M14x1		24 V	-
5727460220	M14x1		24 V	-
5727460420	M14x1		24 V	-
5727415280	M14x1		-	230 V
5727440220	M14x1		24 V	-
5727415480	M14x1		-	230 V
5727465280	M14x1		-	230 V
5727465480	M14x1		-	230 V
5727415302	M14x1		-	-
5727465302	M14x1		-	-

Part No.	Operational voltage		Voltage tolerance	
	AC 60 Hz		DC	AC 50 Hz
5727410220	-		-10% / +10%	-
5727410420	-		-10% / +10%	-
5727460220	-		-10% / +10%	-
5727460420	-		-10% / +10%	-
5727415280	230 V		-	-20% / +10%
5727440220	-		-10% / +10%	-
5727415480	230 V		-	-20% / +10%
5727465280	230 V		-	-20% / +10%
5727465480	230 V		-	-20% / +10%
5727415302	-		-	-
5727465302	-		-	-

Part No.	Power consumption		Holding power		Switch-on power AC 50 Hz
	DC		AC 50 Hz	AC 60 Hz	
5727410220	2,1 W		-	-	-
5727410420	2,1 W		-	-	-
5727460220	2,1 W		-	-	-
5727460420	2,1 W		-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5727415280	2,1 W	4,18 VA	3,3 VA	6,6 VA
5727440220	2,1 W	-	-	-
5727415480	2,1 W	4,18 VA	3,3 VA	6,6 VA
5727465280	2,1 W	4,18 VA	3,3 VA	6,6 VA
5727465480	2,1 W	4,18 VA	3,3 VA	6,6 VA
5727415302	-	-	-	-
5727465302	-	-	-	-

Part No.	Switch-on power	Nominal flow Qn	Compatibility index	Throttle
	AC 60 Hz			
5727410220	-	700 l/min	13 14	with throttle
5727410420	-	700 l/min	13 14	with throttle
5727460220	-	950 l/min	13 14	with throttle
5727460420	-	950 l/min	13 14	with throttle
5727415280	5,5 VA	700 l/min	14	with throttle
5727440220	-	700 l/min	13 14	with throttle
5727415480	5,5 VA	700 l/min	14	with throttle
5727465280	5,5 VA	950 l/min	14	with throttle
5727465480	5,5 VA	950 l/min	14	with throttle
5727415302	-	700 l/min	14	with throttle
5727465302	-	950 l/min	14	with throttle

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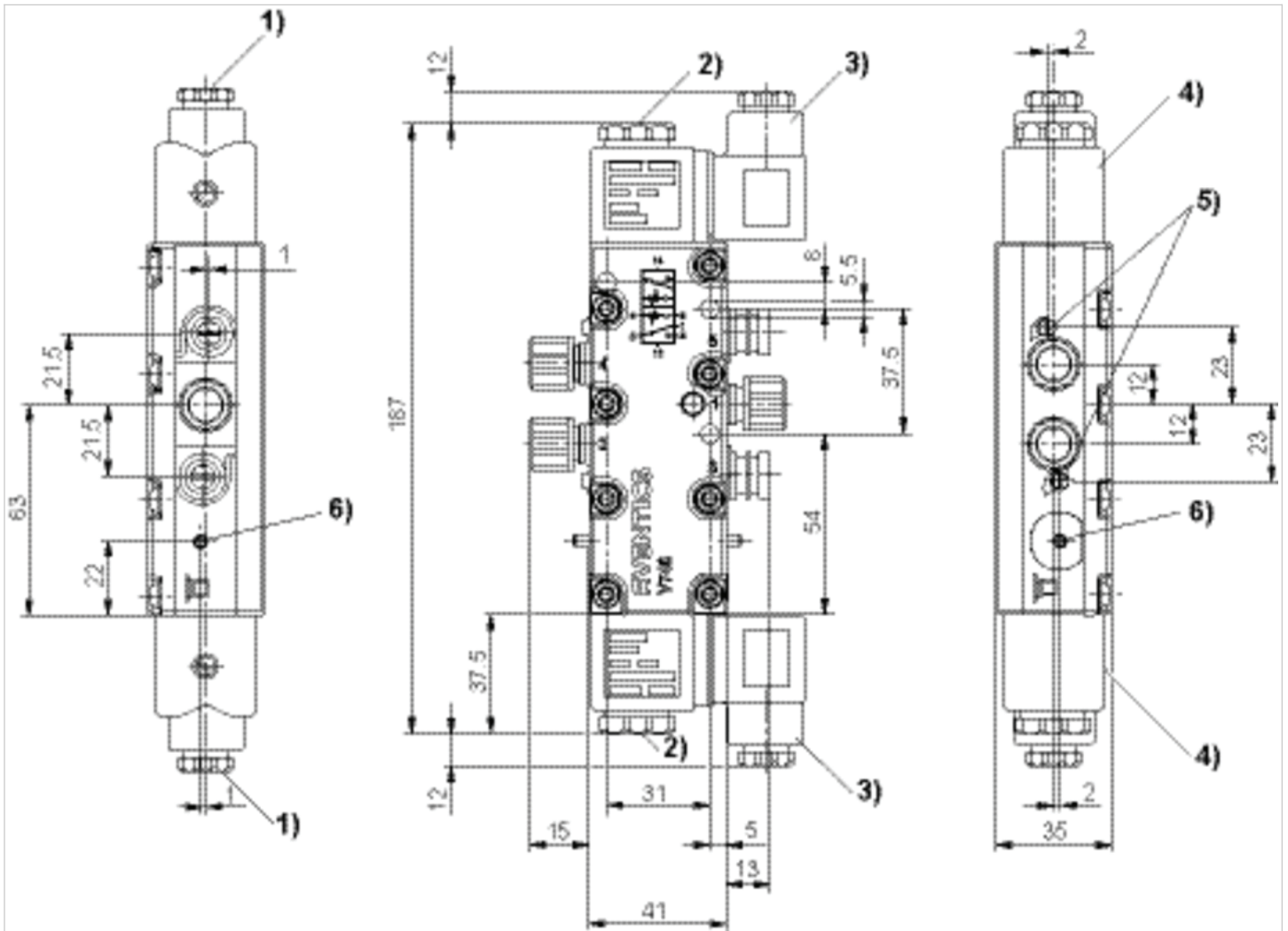
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Technical information

Material	
Housing	Polyoxymethylene
Seals	Acrylonitrile butadiene rubber

Dimensions

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 5) Flow control screw for exhausts 5 (R) and 3 (S)
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