5/2-directional valve, Series CD07

- 5/2
- Qn = 1200 l/min
- Pipe connection
- Compressed air connection output : 1/4 NPT
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent
- single solenoid
- With spring return
- Pilot : Internal External

Type	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	3 ... 10 bar
Control 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 ... 1 mg/m³
Nominal flow Qn	1200 l/min
Nominal flow 1 ▸ 2	1200 l/min
Nominal flow 2 ▸ 3	1200 l/min
Compressed air connection	according to ISO 228-1
Pilot control exhaust	with directional pilot air exhaust
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	25 ms
Typ. switch-off time	45 ms
Mounting on manifold strip	P-strip PRS strip
Weight	0.57 kg

Technical data

Part No.		MO	Compressed air connection	Compressed air connection
			Input	Output
R432016585			1/4 NPT	1/4 NPT
R432016584			1/4 NPT	1/4 NPT
R432016582			1/4 NPT	1/4 NPT
R432016583			1/4 NPT	1/4 NPT
R432016586			1/4 NPT	1/4 NPT
R432016615			1/4 NPT	1/4 NPT
R432016613			1/4 NPT	1/4 NPT
R432016605			1/4 NPT	1/4 NPT
R432016609			1/4 NPT	1/4 NPT
R432016618			1/4 NPT	1/4 NPT

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
R432016585	1/4 NPT	-
R432016584	1/4 NPT	-
R432016582	1/4 NPT	-
R432016583	1/4 NPT	-
R432016586	1/4 NPT	-
R432016615	1/4 NPT	1/8 NPT
R432016613	1/4 NPT	1/8 NPT
R432016605	1/4 NPT	1/8 NPT
R432016609	1/4 NPT	1/8 NPT
R432016618	1/4 NPT	1/8 NPT

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Pilot Exhaust	DC	AC 50 Hz
R432016585	M5	12 V	-
R432016584	M5	24 V	-
R432016582	M5	-	110 V
R432016583	M5	-	230 V
R432016586	M5	-	24 V
R432016615	M5	12 V	-
R432016613	M5	24 V	-
R432016605	M5	-	110 V
R432016609	M5	-	230 V
R432016618	M5	-	24 V

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
R432016585	-	-10% / +10%	-	-
R432016584	-	-10% / +10%	-	-
R432016582	110 V	-	-10% / +10%	-10% / +10%
R432016583	230 V	-	-10% / +10%	-10% / +10%
R432016586	24 V	-	-10% / +10%	-10% / +10%
R432016615	-	-10% / +10%	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
R432016613	-	-10% / +10%	-	-
R432016605	110 V	-	-10% / +10%	-10% / +10%
R432016609	230 V	-	-10% / +10%	-10% / +10%
R432016618	24 V	-	-10% / +10%	-10% / +10%

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R432016585	2.7 W	-	-	-
R432016584	2.7 W	-	-	-
R432016582	-	3.7 VA	3.7 VA	6.4 VA
R432016583	-	3.7 VA	3.7 VA	6.4 VA
R432016586	-	3.7 VA	3.7 VA	6.4 VA
R432016615	2.7 W	-	-	-
R432016613	2.7 W	-	-	-
R432016605	-	3.7 VA	3.7 VA	6.4 VA
R432016609	-	3.7 VA	3.7 VA	6.4 VA
R432016618	-	3.7 VA	3.7 VA	6.4 VA

Part No.	Switch-on power	Pilot	Compatibility index
	AC 60 Hz		
R432016585	-	Internal	13 14
R432016584	-	Internal	13 14
R432016582	6.4 VA	Internal	13 14
R432016583	6.4 VA	Internal	13 14
R432016586	6.4 VA	Internal	13 14
R432016615	-	External	14
R432016613	-	External	14
R432016605	6.4 VA	External	14
R432016609	6.4 VA	External	14
R432016618	6.4 VA	External	14

Nominal flow Qn at 6 bar and Δp = 1 bar

MO = Manual override

Technical information

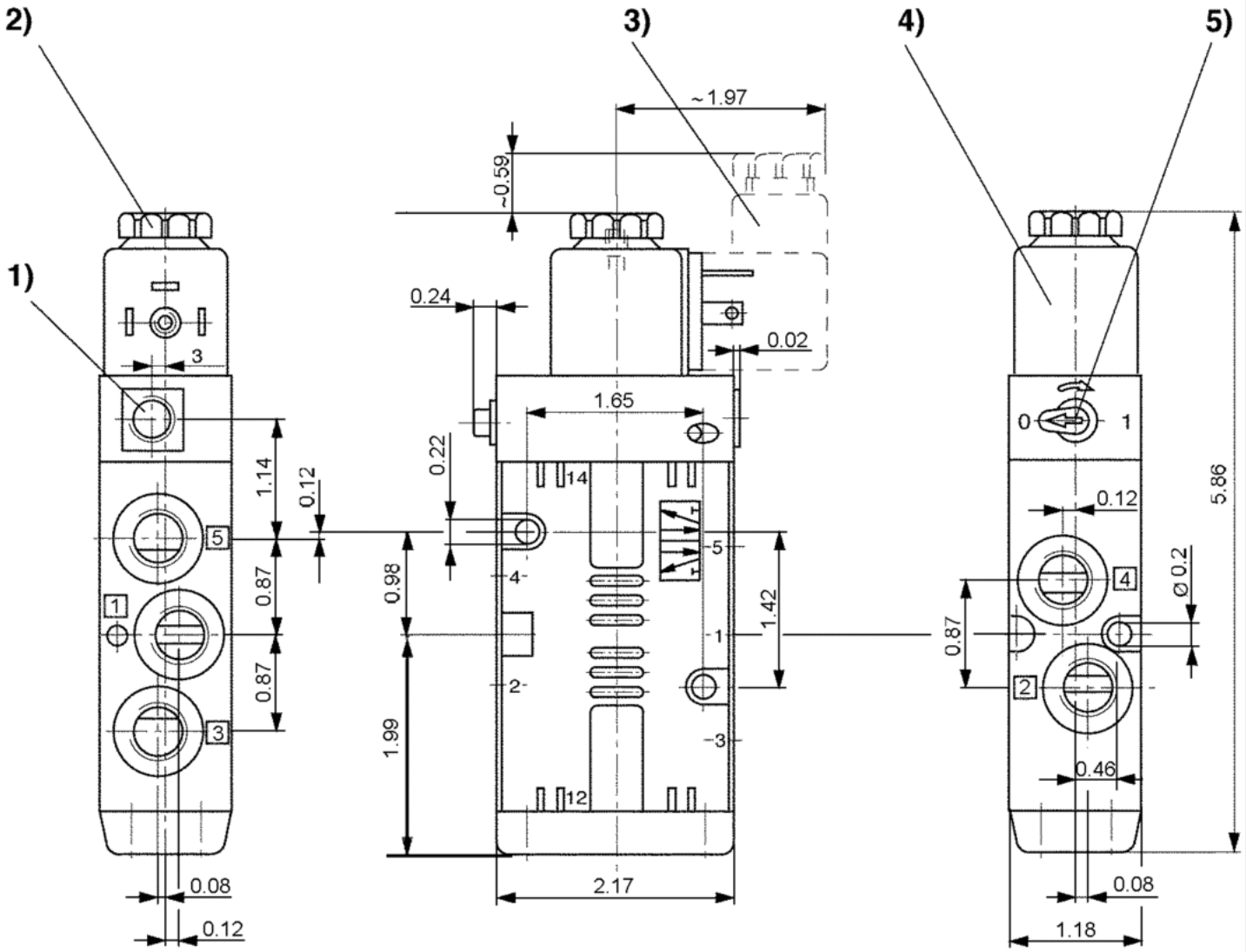
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Material	
Housing	Polyamide fiber-glass reinforced Die cast zinc
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions in inches



1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

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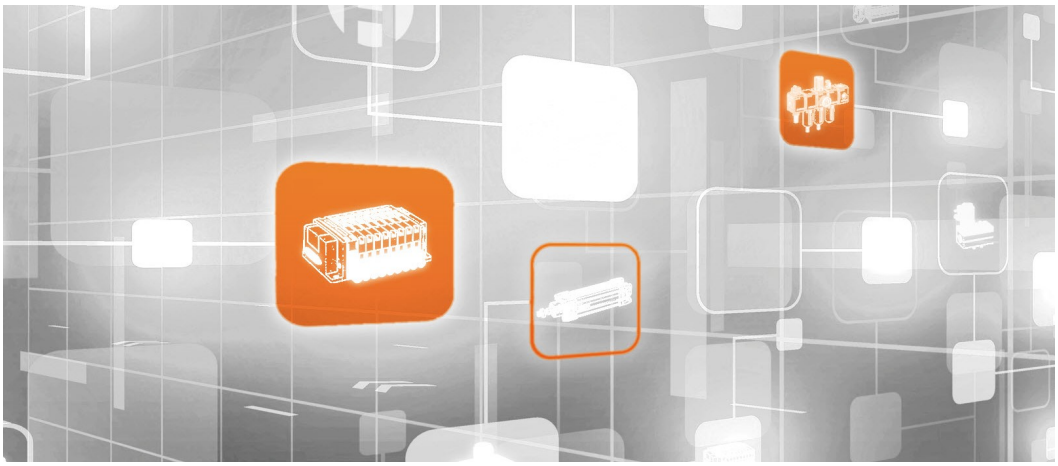

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