

5/2-directional valve, Series CD07

- 5/2
- Qn = 1200 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- -25 °C cold-resistant
- Manual override : with detent
- double solenoid
- Pilot : Internal External



Type	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	2 ... 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 ... 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
Reverse polarity protection	Protected against polarity reversal
Compatibility index	13 14
Duty cycle	100 %
Mounting on manifold strip	P-strip PRS strip
Weight	See table below

Technical data

Part No.		MO	Compressed air connection
			Input
5776270220			G 1/4
5776272220			G 1/4
5776275270			G 1/4
5776275280			G 1/4
5776275220			G 1/4
5776275302			G 1/4
5776280220			G 1/4
5776285270			G 1/4
5776285280			G 1/4
5776285302			G 1/4

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
5776270220	G 1/4	G 1/4
5776272220	G 1/4	G 1/4
5776275270	G 1/4	G 1/4
5776275280	G 1/4	G 1/4
5776275220	G 1/4	G 1/4
5776275302	G 1/4	G 1/4
5776280220	G 1/4	G 1/4
5776285270	G 1/4	G 1/4
5776285280	G 1/4	G 1/4
5776285302	G 1/4	G 1/4

Part No.	Compressed air connection	Compressed air connection
	Pilot Input	Pilot Exhaust
5776270220	-	-
5776272220	-	-
5776275270	-	-
5776275280	-	-
5776275220	-	-
5776275302	-	-
5776280220	G 1/8	M5
5776285270	G 1/8	M5
5776285280	G 1/8	M5
5776285302	G 1/8	M5

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5776270220	24 V	-	-
5776272220	24 V	-	-
5776275270	-	110 V	110 V
5776275280	-	230 V	230 V
5776275220	-	24 V	24 V
5776275302	-	-	-

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5776280220	24 V	-	-
5776285270	-	110 V	110 V
5776285280	-	230 V	230 V
5776285302	-	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5776270220	-10% / +10%	-	-	2,1 W
5776272220	-20% / +30%	-	-	4,5 W
5776275270	-	-20% / +10%	-10% / +20%	-
5776275280	-	-20% / +10%	-10% / +20%	-
5776275220	-	-20% / +10%	-10% / +20%	-
5776275302	-	-	-	-
5776280220	-10% / +10%	-	-	2,1 W
5776285270	-	-20% / +10%	-10% / +20%	-
5776285280	-	-20% / +10%	-10% / +20%	-
5776285302	-	-	-	-

Part No.	Holding power	Holding power	Switch-on power	Switch-on power	Pilot
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
5776270220	-	-	-	-	Internal
5776272220	-	-	-	-	Internal
5776275270	4,3 VA	3,3 VA	6,8 VA	5,7 VA	Internal
5776275280	4,8 VA	4,1 VA	6,9 VA	5,8 VA	Internal
5776275220	4,3 VA	3,2 VA	6,9 VA	5,6 VA	Internal
5776275302	-	-	-	-	Internal
5776280220	-	-	-	-	External
5776285270	4,3 VA	3,3 VA	6,8 VA	5,7 VA	External
5776285280	4,8 VA	4,1 VA	6,9 VA	5,8 VA	External
5776285302	-	-	-	-	External

Part No.	Working pressure min./max.	Typ. switch-on time	Typ. switch-off time	Protection class
				with connection
5776270220	2 ... 10 bar	21 ms	21 ms	IP65
5776272220	2 ... 10 bar	21 ms	21 ms	IP65
5776275270	2 ... 10 bar	21 ms	21 ms	IP65
5776275280	2 ... 10 bar	21 ms	21 ms	IP65
5776275220	2 ... 10 bar	21 ms	21 ms	IP65
5776275302	2 ... 10 bar	-	-	-
5776280220	-0,95 ... 10 bar	21 ms	21 ms	IP65
5776285270	-0,95 ... 10 bar	21 ms	21 ms	IP65
5776285280	-0,95 ... 10 bar	21 ms	21 ms	IP65
5776285302	-0,95 ... 10 bar	-	-	-

Part No.	basic valve with electrical connector	Power consumption	ATEX
5776270220	-	-	-
5776272220	-	Higher power consumption	-

Part No.	basic valve with electrical connector	Power consumption	ATEX
5776275270	-	-	-
5776275280	-	-	-
5776275220	-	-	-
5776275302	Basic valve without coil	-	ATEX optional
5776280220	-	-	-
5776285270	-	-	-
5776285280	-	-	-
5776285302	Basic valve without coil	-	ATEX optional

Part No.	Weight
5776270220	0,75 kg
5776272220	0,75 kg
5776275270	0,75 kg
5776275280	0,75 kg
5776275220	0,75 kg
5776275302	-
5776280220	0,75 kg
5776285270	0,75 kg
5776285280	0,75 kg
5776285302	-

Nominal flow Q_n 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).

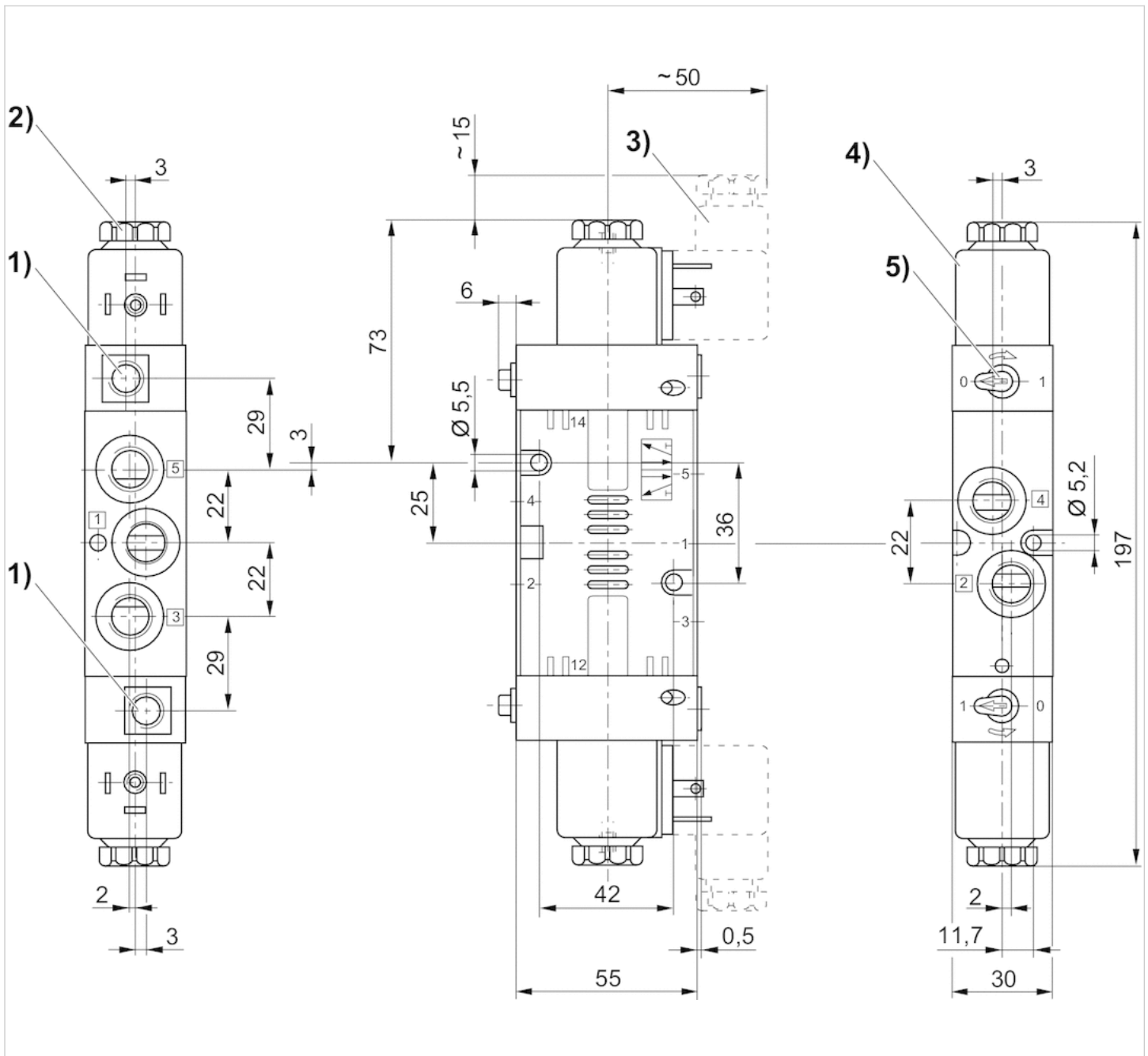
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Technical information

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

Dimensions

Dimensions, Fig. 1



1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector 4) Coil can be plugged at 45° intervals 5) Manual override

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