

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
- Manual override : with detent without
- single solenoid
- With spring return
- 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.	3 ... 10 bar
Ambient temperature min./max.	See table below
Medium temperature min./max.	See table below
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	See table below
Duty cycle	100 %
Mounting on manifold strip	P-strip PRS strip
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	
			Input	Output
5776070220			G 1/4	G 1/4
5776075280			G 1/4	G 1/4
5776080220			G 1/4	G 1/4
5776085280			G 1/4	G 1/4
5776075302			G 1/4	G 1/4
5776085302			G 1/4	G 1/4
R412004093			G 1/4	G 1/4
5776070360			G 1/4	G 1/4
5776085270			G 1/4	G 1/4
5776980220		—	G 1/4	G 1/4

Part No.	Compressed air connection	
	Exhaust	Pilot Input
5776070220	G 1/4	-
5776075280	G 1/4	-
5776080220	G 1/4	G 1/8
5776085280	G 1/4	G 1/8
5776075302	G 1/4	-
5776085302	G 1/4	G 1/8
R412004093	G 1/4	-
5776070360	G 1/4	-
5776085270	G 1/4	G 1/8
5776980220	G 1/4	-

Part No.	Compressed air connection	Operational voltage	
	Pilot Exhaust	DC	AC 50 Hz
5776070220	-	24 V	-
5776075280	-	-	230 V
5776080220	M5	24 V	-
5776085280	M5	-	230 V
5776075302	-	-	-
5776085302	M5	-	-
R412004093	-	24 V	-
5776070360	-	96 V	-
5776085270	M5	-	110 V
5776980220	-	24 V	-

Part No.	Operational voltage	Voltage tolerance		
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5776070220	-	-10% / +15%	-	-
5776075280	230 V	-	-20% / +10%	-10% / +20%
5776080220	-	-10% / +10%	-	-
5776085280	230 V	-	-20% / +10%	-10% / +20%
5776075302	-	-	-	-
5776085302	-	-	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
R412004093	-	-10% / +10%	-	-
5776070360	-	-30% / +30%	-	-
5776085270	110 V	-	-20% / +10%	-10% / +20%
5776980220	-	-10% / +10%	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5776070220	2,1 W	-	-	-
5776075280	-	4,8 VA	4,1 VA	6,9 VA
5776080220	2,1 W	-	-	-
5776085280	-	4,8 VA	4,1 VA	6,9 VA
5776075302	-	-	-	-
5776085302	-	-	-	-
R412004093	2,1 W	-	-	-
5776070360	5,8 W	-	-	-
5776085270	-	4,3 VA	3,3 VA	6,8 VA
5776980220	2,1 W	-	-	-

Part No.	Switch-on power	Pilot	Working pressure min./max.	Ambient temperature min./max.
	AC 60 Hz			
5776070220	-	Internal	3 ... 10 bar	-25 ... 50 °C
5776075280	5,8 VA	Internal	3 ... 10 bar	-25 ... 50 °C
5776080220	-	External	-0,95 ... 10 bar	-25 ... 50 °C
5776085280	5,8 VA	External	-0,95 ... 10 bar	-25 ... 50 °C
5776075302	-	Internal	3 ... 10 bar	-25 ... 50 °C
5776085302	-	External	-0,95 ... 10 bar	-25 ... 50 °C
R412004093	-	Internal	3 ... 10 bar	-10 ... 50 °C
5776070360	-	Internal	3 ... 10 bar	-25 ... 50 °C
5776085270	5,7 VA	External	-0,95 ... 10 bar	-25 ... 50 °C
5776980220	-	Internal	3 ... 10 bar	-25 ... 50 °C

Part No.	Medium temperature min./max.	Typ. switch-on time	Typ. switch-off time	Compatibility index
5776070220	-25 ... 50 °C	25 ms	45 ms	13 14
5776075280	-25 ... 50 °C	25 ms	45 ms	13 14
5776080220	-25 ... 50 °C	25 ms	45 ms	13 14
5776085280	-25 ... 50 °C	25 ms	45 ms	13 14
5776075302	-25 ... 50 °C	-	-	13 14
5776085302	-25 ... 50 °C	-	-	13 14
R412004093	-10 ... 50 °C	25 ms	45 ms	13 14
5776070360	-25 ... 50 °C	25 ms	45 ms	14
5776085270	-25 ... 50 °C	25 ms	45 ms	14
5776980220	-25 ... 50 °C	25 ms	45 ms	14

Part No.	Protection class	basic valve with electrical connector	ATEX	Weight
	with connection			
5776070220	IP65	-	-	0,57 kg
5776075280	IP65	-	-	0,57 kg

Part No.	Protection class	basic valve with electrical connector	ATEX	Weight
	with connection			
5776080220	IP65	-	-	0,57 kg
5776085280	IP65	-	-	0,57 kg
5776075302	-	Basic valve without coil	ATEX optional	-
5776085302	-	Basic valve without coil	ATEX optional	-
R412004093	IP65	-	ATEX	0,57 kg
5776070360	IP65	-	-	0,57 kg
5776085270	IP65	-	-	0,57 kg
5776980220	IP65	-	-	0,57 kg

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override, Nickel-plated armature guide (only suitable for DC variant), i.e. the base must not be equipped with AC coils.

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).

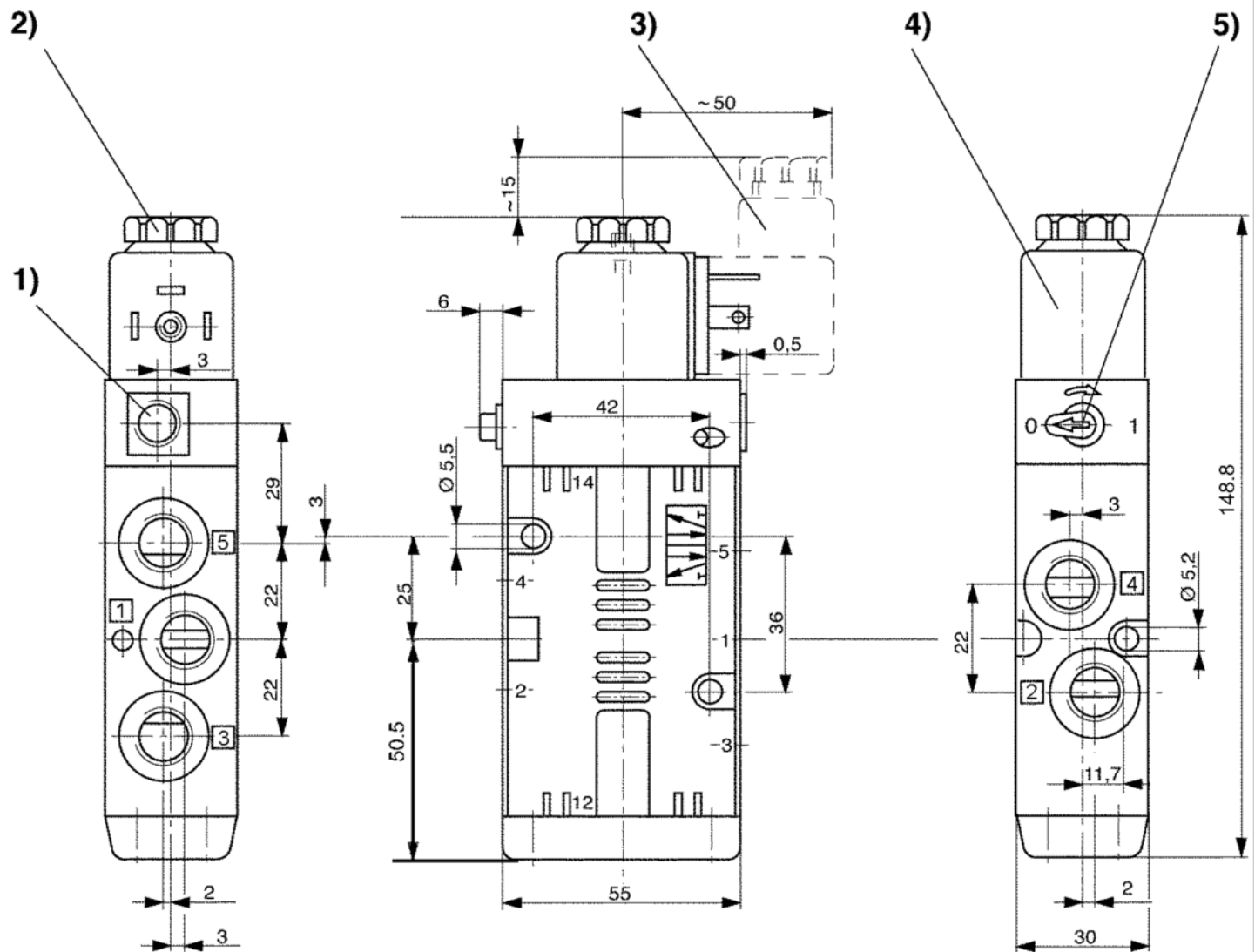
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Technical information

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

Dimensions

Dimensions



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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2020-12



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