

3/2-directional valve, Series CD04

- 3/2
- Qn = 900 l/min
- Pilot valve width : 26 mm
- NC, NO
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, EN 175301-803, form B, 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.	See table below
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	900 l/min
Nominal flow 1 ► 2	900 l/min
Nominal flow 2 ► 3	900 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
Compatibility index	14
Duty cycle	100 %
Weight	See table below

Technical data

Part No.		MO		Compressed air connection
				Input
5772550220			NC, NO	G 1/8
5772555270			NC, NO	G 1/8
5772555280			NC, NO	G 1/8
5772555220			NC, NO	G 1/8
5772555302			NC, NO	G 1/8
5772560220			NC, NO	G 1/8
5772565270			NC, NO	G 1/8
5772565280			NC, NO	G 1/8
5772565302			NC, NO	G 1/8
5772590220		—	NC, NO	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
5772550220	G 1/8	G 1/8
5772555270	G 1/8	G 1/8
5772555280	G 1/8	G 1/8
5772555220	G 1/8	G 1/8
5772555302	G 1/8	G 1/8
5772560220	G 1/8	G 1/8
5772565270	G 1/8	G 1/8
5772565280	G 1/8	G 1/8
5772565302	G 1/8	G 1/8
5772590220	G 1/8	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Pilot Input	Pilot Exhaust
5772550220	-	M5
5772555270	-	M5
5772555280	-	M5
5772555220	-	M5
5772555302	-	M5
5772560220	G 1/8	M5
5772565270	G 1/8	M5
5772565280	G 1/8	M5
5772565302	G 1/8	M5
5772590220	-	M5

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5772550220	24 V	-	-
5772555270	-	110 V	110 V
5772555280	-	230 V	230 V
5772555220	-	24 V	24 V
5772555302	-	-	-
5772560220	24 V	-	-

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5772565270	-	110 V	110 V
5772565280	-	230 V	230 V
5772565302	-	-	-
5772590220	24 V	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5772550220	-10% / +10%	-	-	4,8 W
5772555270	-	-20% / +10%	-10% / +20%	-
5772555280	-	-20% / +10%	-10% / +20%	-
5772555220	-	-20% / +10%	-10% / +20%	-
5772555302	-	-	-	-
5772560220	-10% / +10%	-	-	4,8 W
5772565270	-	-20% / +10%	-10% / +20%	-
5772565280	-	-20% / +10%	-10% / +20%	-
5772565302	-	-	-	-
5772590220	-30% / +30%	-	-	8,4 W

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	
5772550220	-	-	-	-	Internal
5772555270	8,3 VA	7,2 VA	10,8 VA	9,5 VA	Internal
5772555280	7,9 VA	6,4 VA	10,6 VA	8,9 VA	Internal
5772555220	8,3 VA	6,7 VA	10,8 VA	9,4 VA	Internal
5772555302	-	-	-	-	Internal
5772560220	-	-	-	-	External
5772565270	8,3 VA	7,2 VA	10,8 VA	9,5 VA	External
5772565280	7,9 VA	6,4 VA	10,6 VA	8,9 VA	External
5772565302	-	-	-	-	External
5772590220	-	-	-	-	Internal

Part No.	Working pressure min./max.	Control pressure min./max.	Ambient temperature min./max.
5772550220	3 ... 10 bar	3 ... 10 bar	-15 ... 50 °C
5772555270	3 ... 10 bar	3 ... 10 bar	-15 ... 50 °C
5772555280	3 ... 10 bar	3 ... 10 bar	-15 ... 50 °C
5772555220	3 ... 10 bar	3 ... 10 bar	-15 ... 50 °C
5772555302	3 ... 10 bar	3 ... 10 bar	-15 ... 50 °C
5772560220	-0,95 ... 10 bar	3 ... 10 bar	-15 ... 50 °C
5772565270	-0,95 ... 10 bar	3 ... 10 bar	-15 ... 50 °C
5772565280	-0,95 ... 10 bar	3 ... 10 bar	-15 ... 50 °C
5772565302	-0,95 ... 10 bar	3 ... 10 bar	-15 ... 50 °C
5772590220	2,6 ... 10 bar	2,6 ... 10 bar	-20 ... 80 °C

Part No.	Medium temperature min./max.	Typ. switch-on time	Typ. switch-off time
5772550220	-15 ... 50 °C	13 ms	27 ms
5772555270	-15 ... 50 °C	13 ms	27 ms

Part No.	Medium temperature min./max.	Typ. switch-on time	Typ. switch-off time
5772555280	-15 ... 50 °C	13 ms	27 ms
5772555220	-15 ... 50 °C	13 ms	27 ms
5772555302	-15 ... 50 °C	-	-
5772560220	-15 ... 50 °C	13 ms	27 ms
5772565270	-15 ... 50 °C	13 ms	27 ms
5772565280	-15 ... 50 °C	13 ms	27 ms
5772565302	-15 ... 50 °C	-	-
5772590220	-20 ... 80 °C	13 ms	27 ms

Part No.	basic valve with electrical connector	Power consumption	Weight	
5772550220	-	-	0,3 kg	1)
5772555270	-	-	0,3 kg	1)
5772555280	-	-	0,3 kg	1)
5772555220	-	-	0,3 kg	1)
5772555302	Basic valve without coil	-	0,25 kg	1)
5772560220	-	-	0,3 kg	1)
5772565270	-	-	0,3 kg	1)
5772565280	-	-	0,3 kg	1)
5772565302	Basic valve without coil	-	0,25 kg	1)
5772590220	-	Higher voltage tolerance	0,3 kg	2)

Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

1) Pilot valve material: polyamide, fiberglass reinforced

2) Pilot valve material: aluminum

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).

option valve: The input and output compressed air connections can be exchanged.

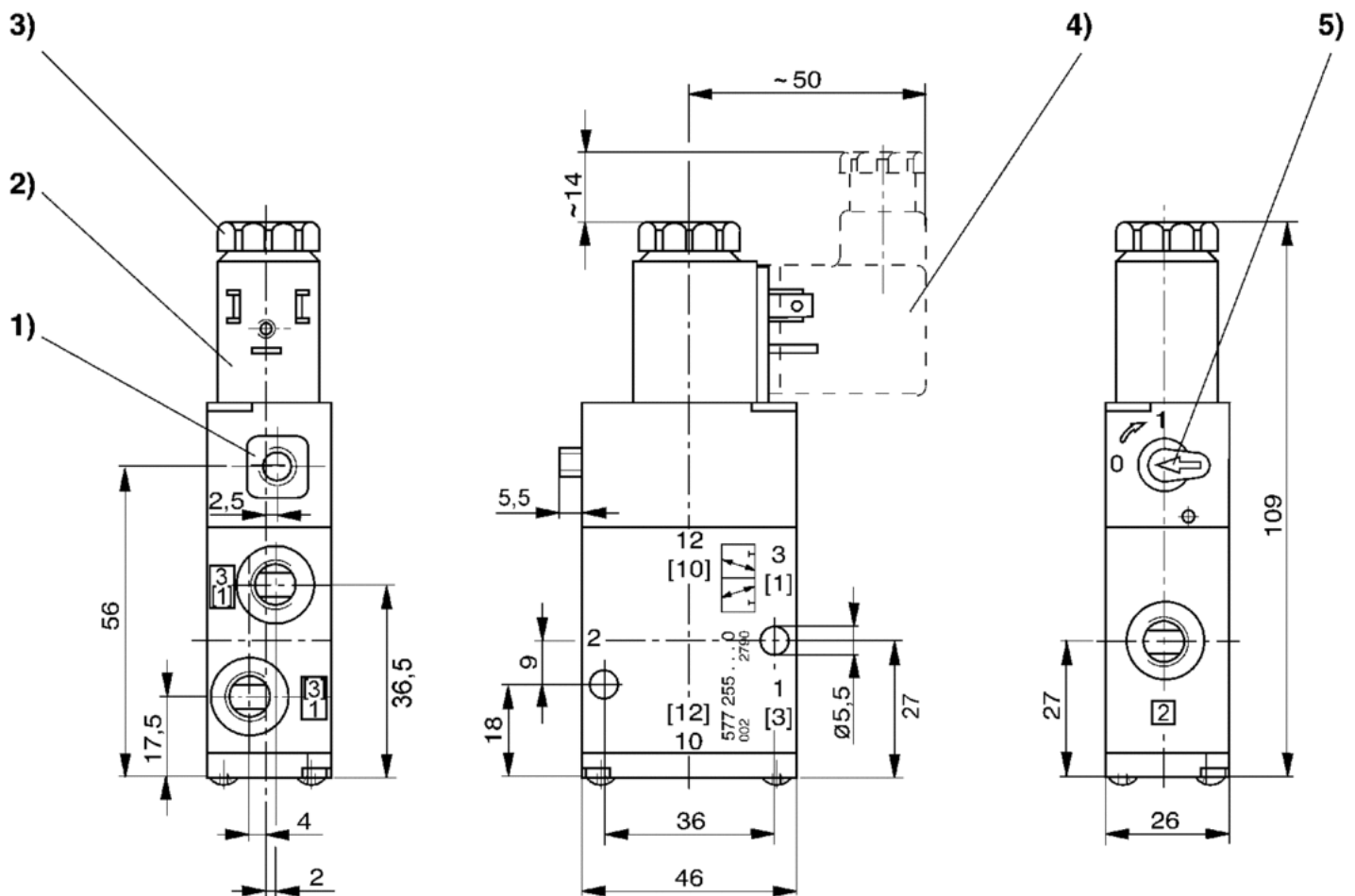
The valve can thereby be used in the NC or NO operating mode.

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) Coil can be rotated at 90° intervals 3) After removal of cap M5 internal thread 4) Valve plug connector can be plugged at 180° intervals 5) Manual override

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