3/2-directional valve, Series CD07

- 3/2
- Qn = 1400 l/min
- Pilot valve width : 30 mm
- NC/NO
- Pipe connection
- Compressed air connection output : M14x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- -25 °C cold-resistant
- 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.	See table below
Control pressure min./max.	3 ... 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	1400 l/min
Nominal flow 1 ▸ 2	1400 l/min
Nominal flow 2 ▸ 3	1400 l/min
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 %
Weight	See table below

Technical data

Part No.		MO		Compressed air connection
				Input
5772020220			NC/NO	M14x1,5
5772025270			NC/NO	M14x1,5
5772025280			NC/NO	M14x1,5
5772020770			NC/NO	M14x1,5
5772025302			NC/NO	M14x1,5
5772030220			NC/NO	M14x1,5
5772035280			NC/NO	M14x1,5
5772035302			NC/NO	M14x1,5

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
5772020220	M14x1,5	M14x1,5
5772025270	M14x1,5	M14x1,5
5772025280	M14x1,5	M14x1,5
5772020770	M14x1,5	M14x1,5
5772025302	M14x1,5	M14x1,5
5772030220	M14x1,5	M14x1,5
5772035280	M14x1,5	M14x1,5
5772035302	M14x1,5	M14x1,5

Part No.	Compressed air connection	Compressed air connection
	Pilot Input	Pilot Exhaust
5772020220	-	-
5772025270	-	-
5772025280	-	-
5772020770	-	-
5772025302	-	-
5772030220	G 1/8	M5
5772035280	G 1/8	M5
5772035302	G 1/8	M5

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5772020220	24 V	-	-
5772025270	-	110 V	110 V
5772025280	-	230 V	230 V
5772020770	110 V	-	-
5772025302	-	-	-
5772030220	24 V	-	-
5772035280	-	230 V	230 V
5772035302	-	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5772020220	-10% / +10%	-	-	2,1 W
5772025270	-	-20% / +10%	-10% / +20%	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
5772025280	-	-20% / +10%	-10% / +20%	-
5772020770	-20% / +30%	-	-	4,1 W
5772025302	-	-	-	-
5772030220	-10% / +10%	-	-	2,1 W
5772035280	-	-20% / +10%	-10% / +20%	-
5772035302	-	-	-	-

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	
5772020220	-	-	-	-	Internal
5772025270	4,3 VA	3,3 VA	6,8 VA	5,7 VA	Internal
5772025280	4,8 VA	4,1 VA	6,9 VA	5,8 VA	Internal
5772020770	-	-	-	-	Internal
5772025302	-	-	-	-	Internal
5772030220	-	-	-	-	External
5772035280	4,8 VA	4,1 VA	6,9 VA	5,8 VA	External
5772035302	-	-	-	-	External

Part No.	Working pressure min./max.	Typ. switch-on time	Typ. switch-off time	Protection class
				with connection
5772020220	3 ... 10 bar	25 ms	45 ms	IP65
5772025270	3 ... 10 bar	25 ms	45 ms	IP65
5772025280	3 ... 10 bar	25 ms	45 ms	IP65
5772020770	3 ... 10 bar	25 ms	45 ms	IP65
5772025302	3 ... 10 bar	-	-	-
5772030220	-0,95 ... 10 bar	25 ms	45 ms	IP65
5772035280	-0,95 ... 10 bar	25 ms	45 ms	IP65
5772035302	-0,95 ... 10 bar	-	-	-

Part No.	basic valve with electrical connector	ATEX	Weight
5772020220	-	-	0,54 kg
5772025270	-	-	0,54 kg
5772025280	-	-	0,54 kg
5772020770	-	-	0,54 kg
5772025302	Basic valve without coil	ATEX optional	-
5772030220	-	-	0,54 kg
5772035280	-	-	0,54 kg
5772035302	Basic valve without coil	ATEX optional	-

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).

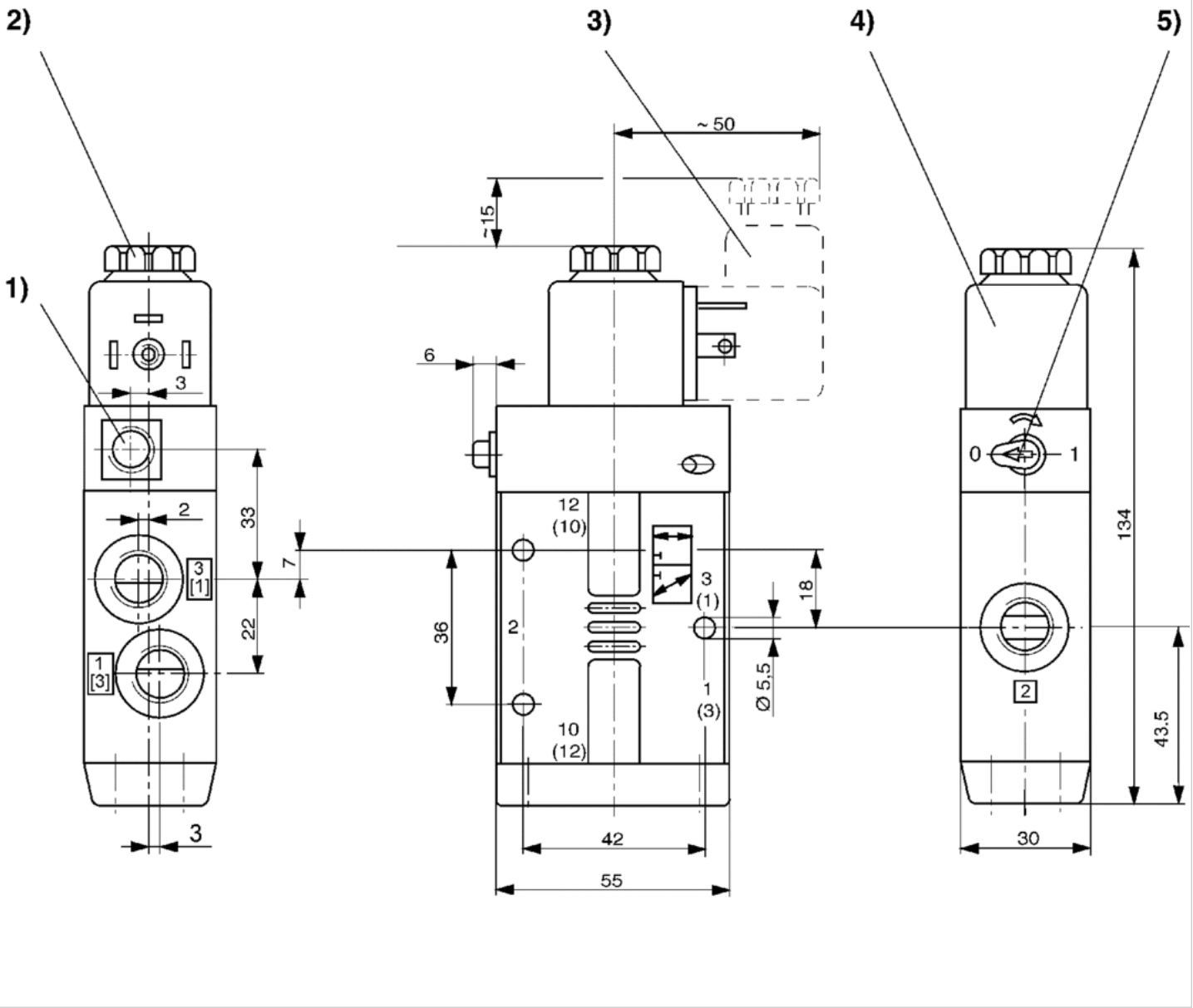
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.
option valve: The input and output compressed air connections can be exchanged.
The valve can thereby be used in the NC or NO operating mode.

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) 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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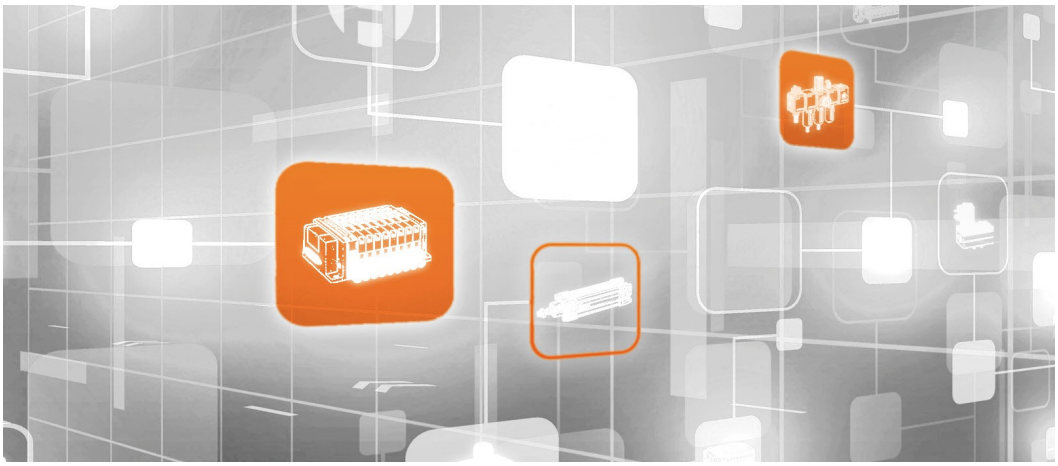

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