

5/2-directional valve, Series CD12

- 5/2

- Qn = 4100 l/min

- Pilot valve width: 30 mm

- Pipe connection

- Compressed air connection output : M22x1,5

- Electrical connection : Plug, EN 175301-803, form A, 3-pin

- -25 °C cold-resistant

- Manual override : with detent, without detent

- double solenoid

- Pilot : Internal External



Type Spool valve, positive overlapping

Electrically

Sealing principle
Working pressure min./max.
Control pressure min./max.
Ambient temperature min./max.
See table below
Medium temperature min./max.
See table below
Compressed air

Max. particle size 50 µm

Activation

Oil content of compressed air 0 ... 1 mg/m³ Nominal flow Qn 4100 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 See table below

Duty cycle 100 %

Weight See table below



Technical data

Part No.		MO	Compressed air connection	Compressed air connection	
			Input	Output	
5725500220			M22x1,5	M22x1,5	
5725505270		<u> </u>	M22x1,5	M22x1,5	
5725505280		<u>-</u>	M22x1,5	M22x1,5	
5725505202	5 1 113	_	M22x1,5	M22x1,5	
R412000244	14 12 12	_	M22x1,5	M22x1,5	

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
5725500220	M22x1,5	-
5725505270	M22x1,5	-
5725505280	M22x1,5	-
5725505202	M22x1,5	-
R412000244	M22x1,5	G 1/8

Part No.	Compressed air connection	Operational	Operational
		voltage	voltage
	Pilot Exhaust	DC	AC 50 Hz
5725500220	M5	24 V	-
5725505270	M5	-	110 V
5725505280	M5	-	230 V
5725505202	-	-	-
R412000244	-	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5725500220	-	-10% / +10%	-	-
5725505270	110 V	-	-20% / +10%	-10% / +20%
5725505280	230 V	-	-20% / +10%	-10% / +20%
5725505202	-	-	-	-
R412000244	-	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5725500220	2,1 W	-	-	-
5725505270	-	4,3 VA	3,3 VA	6,8 VA
5725505280	-	4,4 VA	3,5 VA	6,9 VA
5725505202	-	-	-	-
R412000244	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Control pressure min./max.
5725500220	-	Internal	2 10 bar	2 16 bar
5725505270	5,7 VA	Internal	2 10 bar	2 10 bar
5725505280	6,2 VA	Internal	2 10 bar	2 10 bar
5725505202	-	Internal	2 16 bar	2 16 bar
R412000244	-	External	-0,95 16 bar	2 16 bar



Part No.	Ambient temperature min./max.	Medium temperature min./max.	Typ. switch-on time
5725500220	-25 50 °C	-25 50 °C	36 ms
5725505270	-25 50 °C	-25 50 °C	36 ms
5725505280	-15 50 °C	-15 50 °C	36 ms
5725505202	-25 70 °C	-25 70 °C	-
R412000244	-25 70 °C	-25 70 °C	-

Part No.	Typ. switch-off time	Compatibility index	Protection class with connection	basic valve with electrical connector
5725500220	36 ms	13 14	IP65	-
5725505270	36 ms	13 14	IP65	-
5725505280	36 ms	13 14	IP65	-
5725505202	-	-	-	Basic valve without pilot valve
R412000244	-	-	-	Basic valve without pilot valve

Part No.	Reverse polarity protection	ATEX	Weight
5725500220	Protected against polarity reversal	-	1,1 kg
5725505270	Protected against polarity reversal	-	1,1 kg
5725505280	Protected against polarity reversal	-	1,1 kg
5725505202	-	ATEX optional	0,8 kg
R412000244	-	ATEX optional	0,9 kg

Base valves without pilot valves can be combined with DO30 series valves., Nominal flow Qn at 6 bar and $\Delta p = 1$ 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).

*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

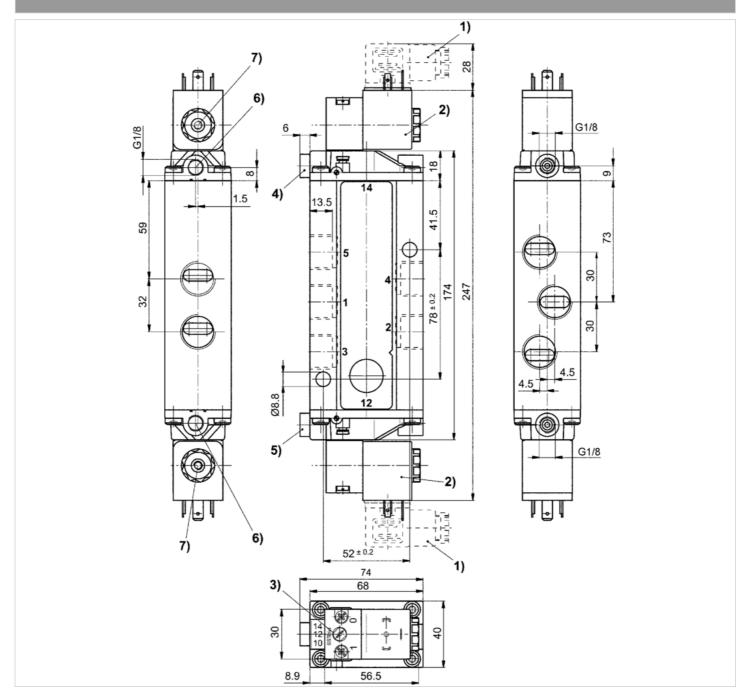
Technical information

Material	
Housing	Aluminum Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane



Dimensions

Dimensions



1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override4) Port X, side 14 5) Port X, side 12 6) Port without function 7) Pilot valve exhaust, M5

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