























5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- With spring/air spring return
- single solenoid double solenoid
- $Q_n = 450$ l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, ISO 15217, form C
- Manual override with detent



Version	Spool valve, positive overlapping
Pilot	Internal
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	450 l/min
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	See table below

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
0820038178			-	24 V
0820038176			24 V	-
0820038177			24 V	-
0820038179			-	110 V
0820038175			-	230 V
0820038955		-	-	-
0820038678			-	24 V
0820038676			24 V	-
0820038677			24 V	-
0820038679			-	110 V
0820038675			-	230 V
0820038957		-	-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
0820038178	24 V	-	-10% / +10%	-10% / +10%
0820038176	-	-10% / +10%	-	-
0820038177	-	-10% / +10%	-	-
0820038179	110 V	-	-10% / +10%	-10% / +10%
0820038175	230 V	-	-10% / +10%	-10% / +10%
0820038955	-	-	-	-
0820038678	24 V	-	-10% / +10%	-10% / +10%
0820038676	-	-10% / +10%	-	-
0820038677	-	-10% / +10%	-	-
0820038679	110 V	-	-10% / +10%	-10% / +10%
0820038675	230 V	-	-10% / +10%	-10% / +10%
0820038957	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
0820038178	-	1.6 VA	1.4 VA	2.2 VA
0820038176	2 W	-	-	-
0820038177	1 W	-	-	-
0820038179	-	1.6 VA	1.4 VA	2.2 VA
0820038175	-	1.6 VA	1.4 VA	2.2 VA
0820038955	-	-	-	-
0820038678	-	1.6 VA	1.4 VA	2.2 VA
0820038676	2 W	-	-	-
0820038677	1 W	-	-	-
0820038679	-	1.6 VA	1.4 VA	2.2 VA
0820038675	-	1.6 VA	1.4 VA	2.2 VA
0820038957	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Working pressure min./max.	Control pressure min./max.
0820038178	2 VA	2 ... 10 bar	2 ... 10 bar
0820038176	-	2 ... 10 bar	2 ... 10 bar
0820038177	-	2 ... 10 bar	2 ... 10 bar
0820038179	2 VA	2 ... 10 bar	2 ... 10 bar
0820038175	2 VA	2 ... 10 bar	2 ... 10 bar
0820038955	-	2 ... 10 bar	2 ... 10 bar
0820038678	2 VA	1.5 ... 10 bar	1.5 ... 10 bar
0820038676	-	1.5 ... 10 bar	1.5 ... 10 bar
0820038677	-	1.5 ... 10 bar	1.5 ... 10 bar
0820038679	2 VA	1.5 ... 10 bar	1.5 ... 10 bar
0820038675	2 VA	1.5 ... 10 bar	1.5 ... 10 bar
0820038957	-	1.5 ... 10 bar	1.5 ... 10 bar

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
0820038178	11 ms	14 ms	Plug ISO 15217, form C
0820038176	11 ms	14 ms	Plug ISO 15217, form C
0820038177	12 ms	16 ms	Plug ISO 15217, form C
0820038179	11 ms	14 ms	Plug ISO 15217, form C
0820038175	11 ms	14 ms	Plug ISO 15217, form C
0820038955	-	-	Plug ISO 15217, form C
0820038678	8 ms	8 ms	Plug ISO 15217, form C
0820038676	8 ms	8 ms	Plug ISO 15217, form C
0820038677	10 ms	10 ms	Plug ISO 15217, form C
0820038679	8 ms	8 ms	Plug ISO 15217, form C
0820038675	8 ms	8 ms	Plug ISO 15217, form C
0820038957	-	-	Plug ISO 15217, form C

Part No.	basic valve with electrical connector	Weight	
0820038178	-	0.11 kg	-
0820038176	-	0.11 kg	-
0820038177	-	0.11 kg	1)
0820038179	-	0.11 kg	-
0820038175	-	0.11 kg	-
0820038955	Basic valve without pilot valve	0.08 kg	-
0820038678	-	0.16 kg	-
0820038676	-	0.16 kg	-
0820038677	-	0.16 kg	1)
0820038679	-	0.16 kg	-
0820038675	-	0.16 kg	-
0820038957	Basic valve without pilot valve	0.1 kg	-

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

1) Low power consumption

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).

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions

