

5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- With spring/air spring return
- single solenoid double solenoid
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, ISO 15217, form C
- Manual override without detent



Type	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/m³
Nominal flow Qn	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
0820038154			-	24 V
0820038152			24 V	-
0820038153			24 V	-
0820038155			-	110 V
0820038151			-	230 V
0820038654			-	24 V
0820038652			24 V	-
0820038653			24 V	-
0820038655			-	110 V
0820038651			-	230 V

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
0820038154	24 V	-	-10% / +10%	-10% / +10%
0820038152	-	-10% / +10%	-	-
0820038153	-	-10% / +10%	-	-
0820038155	110 V	-	-10% / +10%	-10% / +10%
0820038151	230 V	-	-10% / +10%	-10% / +10%
0820038654	-	-	-10% / +10%	-10% / +10%
0820038652	-	-10% / +10%	-	-
0820038653	-	-10% / +10%	-	-
0820038655	110 V	-	-10% / +10%	-10% / +10%
0820038651	230 V	-	-10% / +10%	-10% / +10%

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
0820038154	-	1,6 VA	1,4 VA	2,2 VA
0820038152	2 W	-	-	-
0820038153	1 W	-	-	-
0820038155	-	1,6 VA	1,4 VA	2,2 VA
0820038151	-	1,6 VA	1,4 VA	2,2 VA
0820038654	-	1,6 VA	1,4 VA	2,2 VA
0820038652	2 W	-	-	-
0820038653	1 W	-	-	-
0820038655	-	1,6 VA	1,4 VA	2,2 VA
0820038651	-	1,6 VA	1,4 VA	2,2 VA

Part No.	Switch-on power AC 60 Hz	Working pressure min./max.	Control pressure min./max.
0820038154	2 VA	2 ... 10 bar	2 ... 10 bar
0820038152	-	2 ... 10 bar	2 ... 10 bar
0820038153	-	2 ... 10 bar	2 ... 10 bar
0820038155	2 VA	2 ... 10 bar	2 ... 10 bar

Part No.	Switch-on power AC 60 Hz	Working pressure min./max.	Control pressure min./max.
0820038151	2 VA	2 ... 10 bar	2 ... 10 bar
0820038654	2 VA	1,5 ... 10 bar	1,5 ... 10 bar
0820038652	-	1,5 ... 10 bar	1,5 ... 10 bar
0820038653	-	1,5 ... 10 bar	1,5 ... 10 bar
0820038655	2 VA	1,5 ... 10 bar	1,5 ... 10 bar
0820038651	2 VA	1,5 ... 10 bar	1,5 ... 10 bar

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve	Weight
0820038154	11 ms	14 ms	Plug ISO 15217, form C	0,11 kg
0820038152	11 ms	14 ms	Plug ISO 15217, form C	0,11 kg
0820038153	12 ms	16 ms	Plug ISO 15217, form C	0,11 kg
0820038155	11 ms	14 ms	Plug ISO 15217, form C	0,11 kg
0820038151	11 ms	14 ms	Plug ISO 15217, form C	0,11 kg
0820038654	8 ms	8 ms	Plug ISO 15217, form C	0,16 kg
0820038652	8 ms	8 ms	Plug ISO 15217, form C	0,16 kg
0820038653	10 ms	10 ms	Plug ISO 15217, form C	0,16 kg
0820038655	8 ms	8 ms	Plug ISO 15217, form C	0,16 kg
0820038651	8 ms	8 ms	Plug ISO 15217, form C	0,16 kg

Part No.	
0820038154	-
0820038152	-
0820038153	1)
0820038155	-
0820038151	-
0820038654	-
0820038652	-
0820038653	1)
0820038655	-
0820038651	-

Nominal flow Q_n 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.

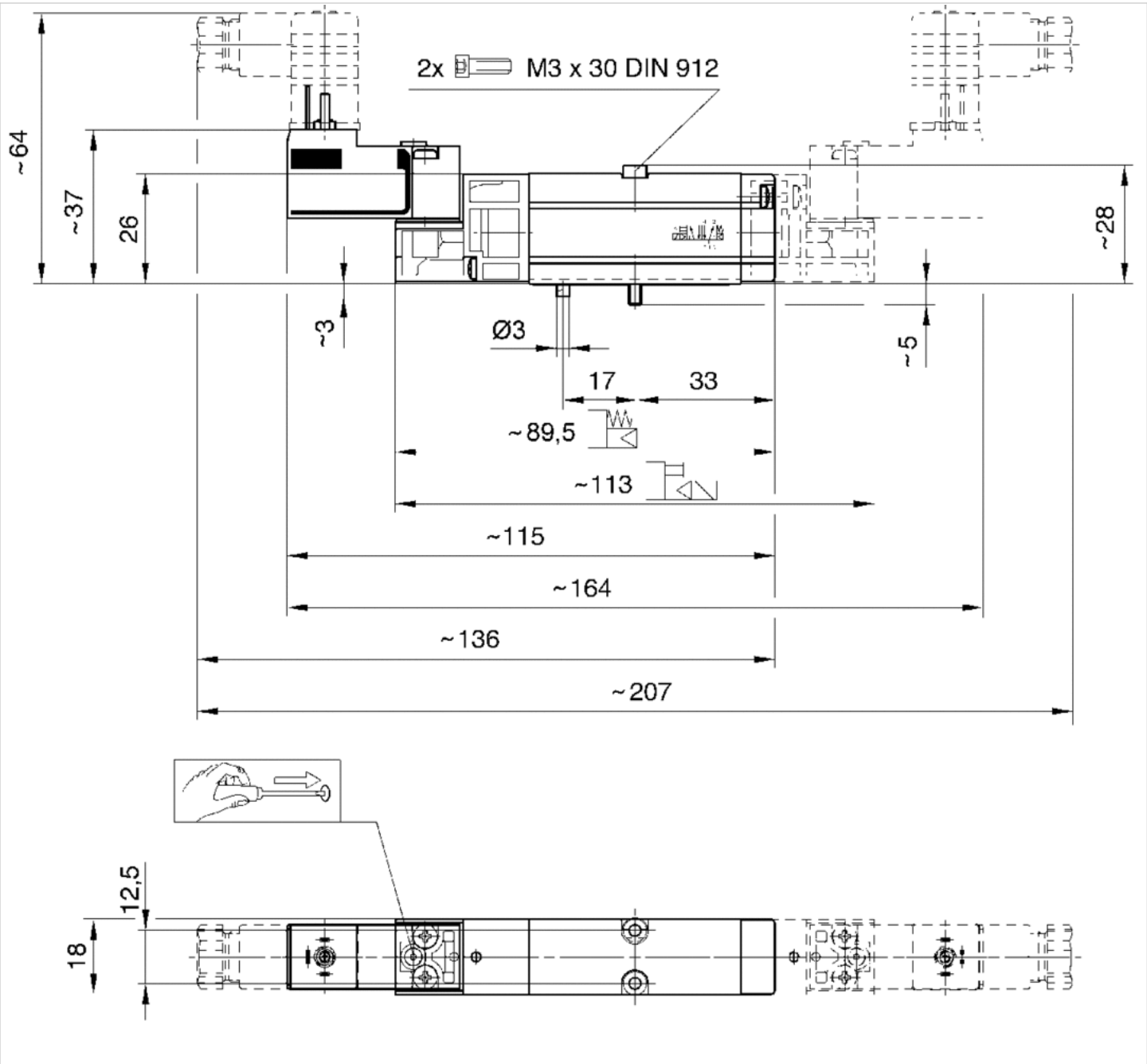
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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