

5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- With spring/air spring return
- single solenoid double solenoid
- $Q_n = 450 \text{ l/min}$
- 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	External
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.	-0,9 ... 10 bar
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	Voltage tolerance DC
0820038157			24 V	-10% / +10%
0820038959		—	-	-
0820038657			24 V	-10% / +10%
0820038961		—	-	-

Part No.	Power consumption DC	Control pressure min./max.	Typ. switch-on time
0820038157	2 W	2 ... 10 bar	11 ms
0820038959	-	2 ... 10 bar	-
0820038657	2 W	1,5 ... 10 bar	8 ms
0820038961	-	1,5 ... 10 bar	-

Part No.	Typ. switch-off time	Electrical connection Pilot valve	basic valve with electrical connector
0820038157	14 ms	Plug ISO 15217, form C	-
0820038959	-	Plug ISO 15217, form C	Basic valve without pilot valve
0820038657	10 ms	Plug ISO 15217, form C	-
0820038961	-	Plug ISO 15217, form C	Basic valve without pilot valve

Part No.	Weight
0820038157	0,11 kg
0820038959	0,08 kg
0820038657	0,16 kg
0820038961	0,1 kg

Nominal flow Q_n 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.

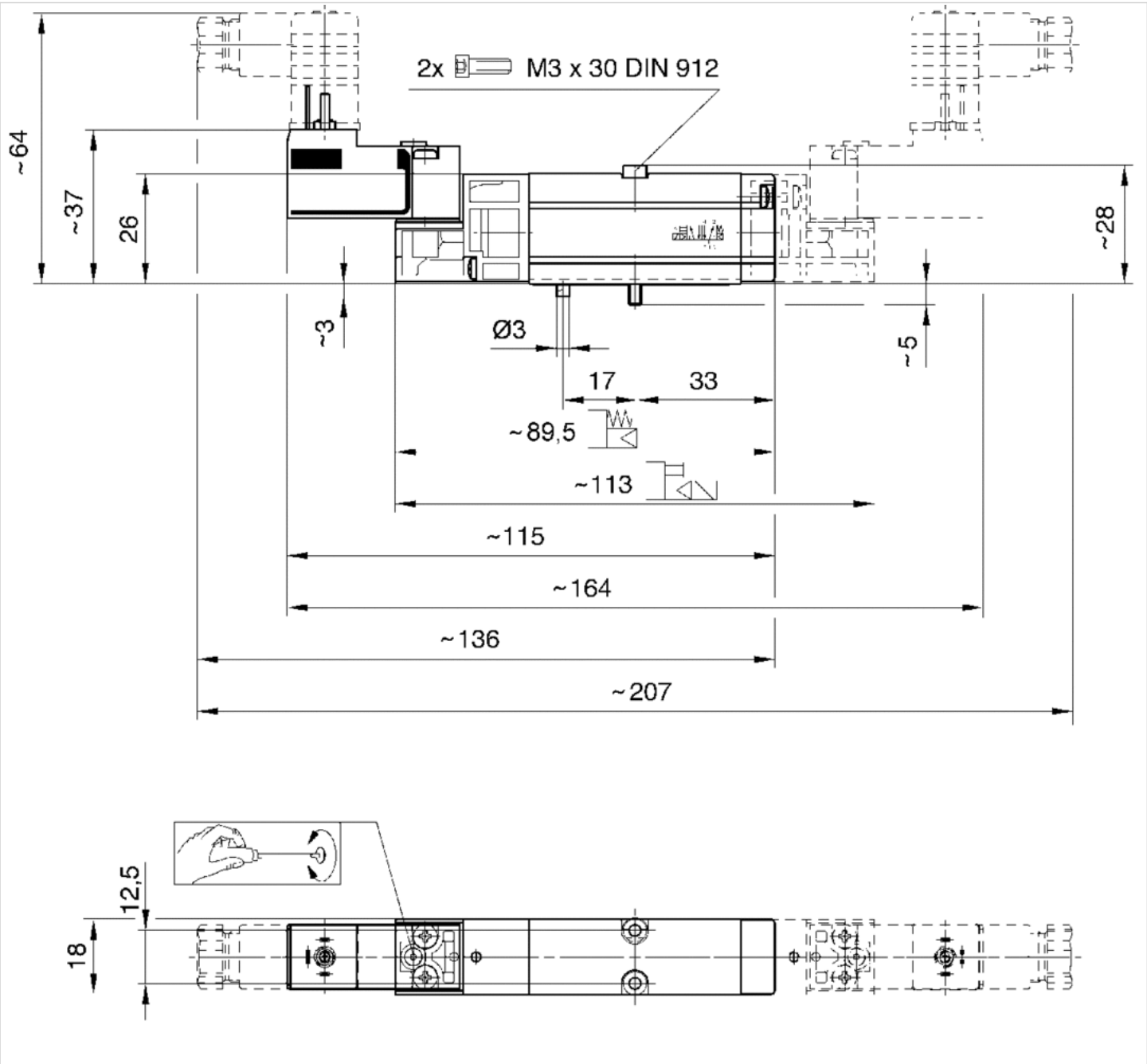
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

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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