

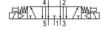
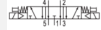
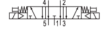
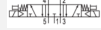
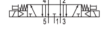
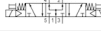
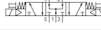
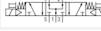
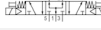
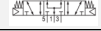
5/3-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/3
- closed center exhausted center pressurized center
- Qn = 250-400 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection 2, Plug, ISO 15217, form C
- Manual override without detent



Type	Spool valve, positive overlapping
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.	2,2 ... 10 bar
Control pressure min./max.	2,2 ... 10 bar
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	See table below
Protection class with connection	IP65
Protection class Without valve plug connector	See table below
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	0,17 kg

Technical data

Part No.		MO		Operational voltage DC
0820039218			closed center	-
0820039216			closed center	24 V
0820039217			closed center	24 V
0820039219			closed center	-
0820039215			closed center	-
0820039943		—	closed center	-
0820039233			exhausted center	-
0820039231			exhausted center	24 V
0820039232			exhausted center	24 V
0820039234			exhausted center	-
0820039230			exhausted center	-
0820039944		—	exhausted center	-
0820039263			pressurized center	-
0820039261			pressurized center	24 V
0820039262			pressurized center	24 V
0820039264			pressurized center	-
0820039260			pressurized center	-
0820039945		—	pressurized center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
0820039218	24 V	24 V	-
0820039216	-	-	-10% / +10%
0820039217	-	-	-10% / +10%
0820039219	110 V	110 V	-
0820039215	230 V	230 V	-
0820039943	-	-	-
0820039233	24 V	24 V	-
0820039231	-	-	-10% / +10%
0820039232	-	-	-10% / +10%
0820039234	110 V	110 V	-
0820039230	230 V	230 V	-
0820039944	-	-	-
0820039263	24 V	24 V	-
0820039261	-	-	-10% / +10%
0820039262	-	-	-10% / +10%
0820039264	110 V	110 V	-
0820039260	230 V	230 V	-
0820039945	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
0820039218	-10% / +10%	-10% / +10%	-	1,6 VA

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
0820039216	-	-	2 W	-
0820039217	-	-	1 W	-
0820039219	-10% / +10%	-10% / +10%	-	1,6 VA
0820039215	-10% / +10%	-10% / +10%	-	1,6 VA
0820039943	-	-	-	-
0820039233	-10% / +10%	-10% / +10%	-	1,6 VA
0820039231	-	-	2 W	-
0820039232	-	-	1 W	-
0820039234	-10% / +10%	-10% / +10%	-	1,6 VA
0820039230	-10% / +10%	-10% / +10%	-	1,6 VA
0820039944	-	-	-	-
0820039263	-10% / +10%	-10% / +10%	-	1,6 VA
0820039261	-	-	2 W	-
0820039262	-	-	1 W	-
0820039264	-10% / +10%	-10% / +10%	-	1,6 VA
0820039260	-10% / +10%	-10% / +10%	-	1,6 VA
0820039945	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot	Nominal flow Q _n
0820039218	1,4 VA	2,2 VA	2 VA	Internal	400 l/min
0820039216	-	-	-	Internal	400 l/min
0820039217	-	-	-	Internal	400 l/min
0820039219	1,4 VA	2,2 VA	2 VA	Internal	400 l/min
0820039215	1,4 VA	2,2 VA	2 VA	Internal	400 l/min
0820039943	-	-	-	External	400 l/min
0820039233	1,4 VA	2,2 VA	2 VA	Internal	250 l/min
0820039231	-	-	-	Internal	250 l/min
0820039232	-	-	-	Internal	250 l/min
0820039234	1,4 VA	2,2 VA	2 VA	Internal	250 l/min
0820039230	1,4 VA	2,2 VA	2 VA	Internal	250 l/min
0820039944	-	-	-	External	250 l/min
0820039263	1,4 VA	2,2 VA	2 VA	Internal	250 l/min
0820039261	-	-	-	Internal	250 l/min
0820039262	-	-	-	Internal	250 l/min
0820039264	1,4 VA	2,2 VA	2 VA	Internal	250 l/min
0820039260	1,4 VA	2,2 VA	2 VA	Internal	250 l/min
0820039945	-	-	-	External	250 l/min

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
0820039218	9 ms	20 ms	2 Plug ISO 15217, form C
0820039216	9 ms	20 ms	2 Plug ISO 15217, form C
0820039217	11 ms	23 ms	2 Plug ISO 15217, form C
0820039219	9 ms	20 ms	2 Plug ISO 15217, form C
0820039215	9 ms	20 ms	2 Plug ISO 15217, form C
0820039943	-	-	2 Plug ISO 15217, form C

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
0820039233	9 ms	20 ms	2 Plug ISO 15217, form C
0820039231	9 ms	20 ms	2 Plug ISO 15217, form C
0820039232	11 ms	23 ms	2 Plug ISO 15217, form C
0820039234	9 ms	20 ms	2 Plug ISO 15217, form C
0820039230	9 ms	20 ms	2 Plug ISO 15217, form C
0820039944	-	-	2 Plug ISO 15217, form C
0820039263	9 ms	20 ms	2 Plug ISO 15217, form C
0820039261	9 ms	20 ms	2 Plug ISO 15217, form C
0820039262	11 ms	23 ms	2 Plug ISO 15217, form C
0820039264	9 ms	20 ms	2 Plug ISO 15217, form C
0820039260	9 ms	20 ms	2 Plug ISO 15217, form C
0820039945	-	-	2 Plug ISO 15217, form C

Part No.	basic valve with electrical connector	
0820039218	-	-
0820039216	-	-
0820039217	-	1)
0820039219	-	-
0820039215	-	-
0820039943	Basic valve without pilot valve	-
0820039233	-	-
0820039231	-	-
0820039232	-	1)
0820039234	-	-
0820039230	-	-
0820039944	Basic valve without pilot valve	-
0820039263	-	-
0820039261	-	-
0820039262	-	1)
0820039264	-	-
0820039260	-	-
0820039945	Basic valve without pilot valve	-

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.

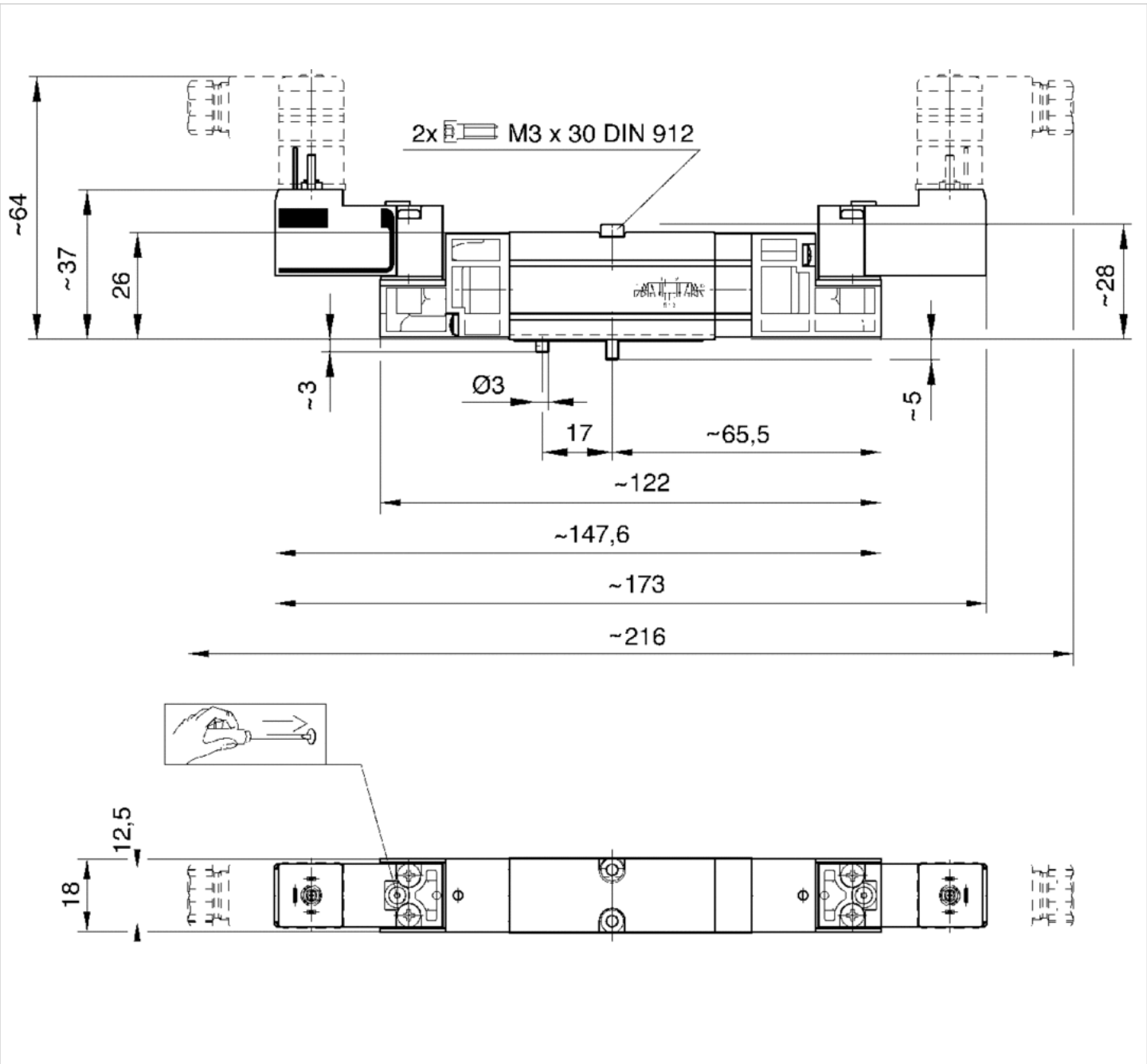
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



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



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