

3/2-directional valve, Series DO22

- 3/2
- Pilot valve width : 22 mm
- NC NO
- Pipe connection
- Compressed air connection output : M5
- Electrical connection : Form B, industry
- Can be assembled into blocks
- single valve
- Manual override : with detent
- single solenoid
- With spring return



Type	Poppet valve
Activation	Electrically
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	1 ... 5 mg/m ³
Nominal flow 1 ► 2	40 l/min
Nominal flow 2 ► 3	52 l/min
Compressed air connection	according to ISO 16030
Reverse polarity protection	Protected against polarity reversal
Compatibility index	See table below
Duty cycle	100 %
Typ. switch-on time	22 ms
Typ. switch-off time	20 ms
Weight	See table below

Technical data

Part No.		MO		Compressed air connection	
				Input	
0820019006			NC	M5	
0820019014			NC	M5	
0820019001			NC	M5	
0820019005			NC	M5	
0820019990			NC	M5	
0820019115			NO	M5	
0820019114			NO	M5	
0820019991			NO	M5	

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
0820019006	M5	M5
0820019014	M5	M5
0820019001	M5	M5
0820019005	M5	M5
0820019990	M5	M5
0820019115	M5	M5
0820019114	M5	M5
0820019991	M5	M5

Part No.	Operational voltage	Operational voltage	Voltage tolerance
	DC	AC 50 Hz	DC
0820019006	24 V	-	-10% / +10%
0820019014	24 V	-	-10% / +10%
0820019001	-	230 V	-
0820019005	-	24 V	-
0820019990	-	-	-
0820019115	24 V	-	-10% / +10%
0820019114	-	24 V	-
0820019991	-	-	-

Part No.	Voltage tolerance	Power consumption	Holding power	Holding power
	AC 50 Hz	DC	AC 50 Hz	AC 60 Hz
0820019006	-	4,8 W	-	-
0820019014	-	2,6 W	-	-
0820019001	-10% / +10%	-	9,7 VA	7,9 VA
0820019005	-10% / +10%	-	8,9 VA	7,3 VA
0820019990	-	-	-	-
0820019115	-	4,8 W	-	-
0820019114	-10% / +10%	-	8,9 VA	7,3 VA
0820019991	-	-	-	-

Part No.	Switch-on power	Switch-on power	Nominal resistance	Working pressure min./max.
	AC 50 Hz	AC 60 Hz		
0820019006	-	-	121 Ω	0 ... 10 bar
0820019014	-	-	223 Ω	2 ... 7 bar

Part No.	Switch-on power	Switch-on power	Nominal resistance	Working pressure min./max.
	AC 50 Hz	AC 60 Hz		
0820019001	12,6 VA	10,7 VA	2450 Ω	0 ... 10 bar
0820019005	12 VA	9,9 VA	26 Ω	0 ... 10 bar
0820019990	-	-	-	0 ... 10 bar
0820019115	-	-	121 Ω	0 ... 10 bar
0820019114	12 VA	9,9 VA	-	0 ... 10 bar
0820019991	-	-	-	0 ... 10 bar

Part No.	Compatibility index	Protection class	basic valve with electrical connector
		with connection	
0820019006	14	IP65	-
0820019014	13	IP65	-
0820019001	14	IP65	-
0820019005	14	IP65	-
0820019990	14	-	Basic valve without coil
0820019115	14	IP65	-
0820019114	14	IP65	-
0820019991	14	-	Basic valve without coil

Part No.	Power consumption	ATEX	Weight
0820019006	-	-	0,134 kg
0820019014	Low power consumption	-	0,134 kg
0820019001	-	-	0,134 kg
0820019005	-	-	0,134 kg
0820019990	-	suitable for ATEX	0,08 kg
0820019115	-	-	0,134 kg
0820019114	-	-	0,134 kg
0820019991	-	suitable for ATEX	0,08 kg

Nominal flow Q_n 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).

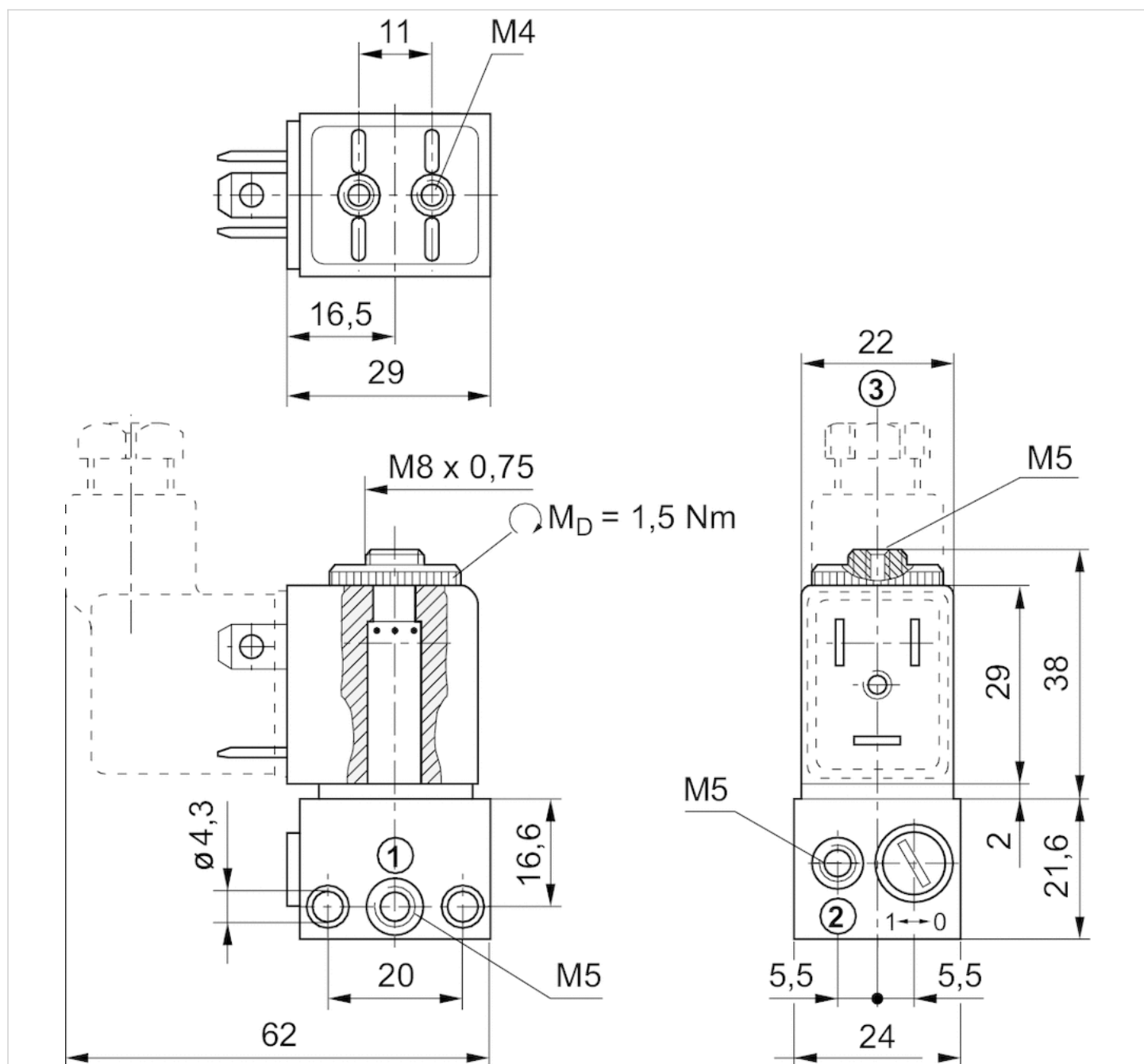
If the valves are blocked, the permissible ambient temperature drops to 35°C with a 100% duty cycle.

Technical information

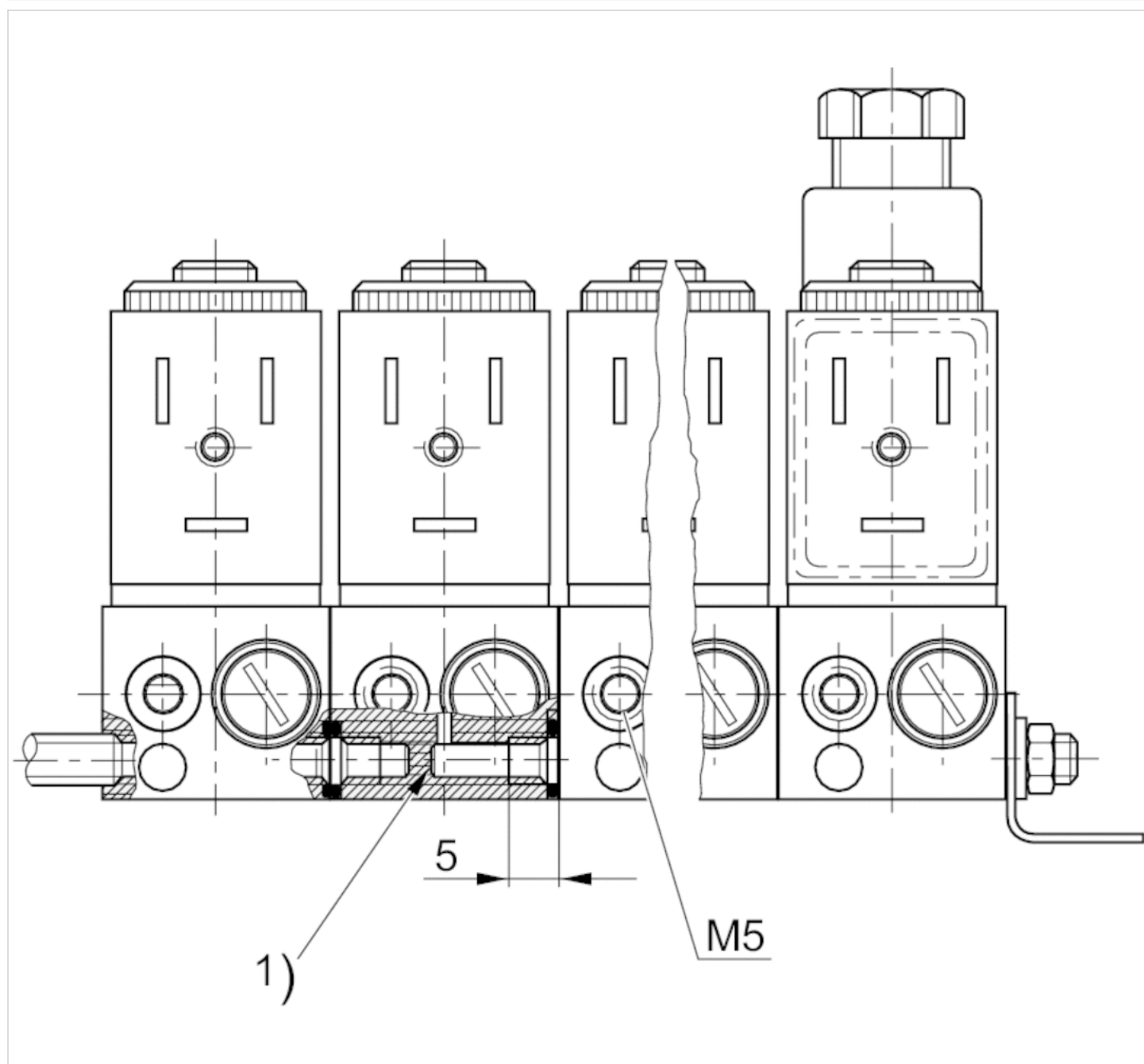
Material	
Housing	Die cast zinc
Seals	Fluorocaoutchouc

Dimensions

Dimensions



Overview drawing



Before assembly, the blanking tab must be broken through with a punch ($\varnothing 4$ mm).

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