

3/2-directional valve, Series DO22

- 3/2

- Plate valve with pipe connection
- Electrical connection : Plug, ISO 6952, form B
- Manual override : with detent without
- With spring return



Type	Poppet valve
Activation	Electrically
Sealing principle	Soft sealing
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	0 ... 5 mg/m³
Nominal flow 1 ▶ 2	See table below
Nominal flow 2 ▶ 3	See table below
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
mounting screws	M3
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	
			Input	Exhaust
0820019641			-	M5
0820019644			-	M5
0820019642			-	M5
0820019640			-	M5
0820019968			-	M5
0820019691			M5	-
0820019631		-	-	M5
0820019967		-	-	M5
0820019681		-	M5	-
0820019616			-	M5
0820019965			-	M5

Part No.	Operational voltage	Operational voltage	Voltage tolerance
	DC	AC 50 Hz	DC
0820019641	24 V	-	-10% / +10%
0820019644	24 V	-	-10% / +10%
0820019642	-	24 V	-
0820019640	-	230 V	-
0820019968	-	-	-
0820019691	24 V	-	-10% / +10%
0820019631	24 V	-	-10% / +10%

Part No.	Operational voltage	Operational voltage	Voltage tolerance
	DC	AC 50 Hz	DC
0820019967	-	-	-
0820019681	24 V	-	-10% / +10%
0820019616	24 V	-	-10% / +10%
0820019965	-	-	-

Part No.	Voltage tolerance	Power consumption	Holding power	Holding power
	AC 50 Hz	DC	AC 50 Hz	AC 60 Hz
0820019641	-	4,8 W	-	-
0820019644	-	2,6 W	-	-
0820019642	-10% / +10%	-	8,5 VA	7,3 VA
0820019640	-10% / +10%	-	9,7 VA	-
0820019968	-	-	-	-
0820019691	-	4,8 W	-	-
0820019631	-	4,8 W	-	-
0820019967	-	-	-	-
0820019681	-	4,8 W	-	-
0820019616	-	4,8 W	-	-
0820019965	-	-	-	-

Part No.	Switch-on power	Switch-on power	Nominal flow 1 ► 2	Nominal flow 2 ► 3
	AC 50 Hz	AC 60 Hz		
0820019641	-	-	61 l/min	74 l/min
0820019644	-	-	61 l/min	74 l/min
0820019642	12 VA	9,9 VA	61 l/min	74 l/min
0820019640	12,6 VA	-	61 l/min	74 l/min
0820019968	-	-	61 l/min	74 l/min
0820019691	-	-	61 l/min	74 l/min
0820019631	-	-	61 l/min	74 l/min
0820019967	-	-	61 l/min	74 l/min
0820019681	-	-	61 l/min	74 l/min
0820019616	-	-	75 l/min	77 l/min
0820019965	-	-	75 l/min	77 l/min

Part No.	Working pressure min./max.	Compatibility index	basic valve with electrical connector
0820019641	0 ... 10 bar	14	-
0820019644	0 ... 7 bar	13	-
0820019642	0 ... 10 bar	14	-
0820019640	0 ... 10 bar	14	-
0820019968	0 ... 10 bar	14	Basic valve without coil
0820019691	0 ... 10 bar	14	-
0820019631	0 ... 10 bar	14	-
0820019967	0 ... 10 bar	14	Basic valve without coil
0820019681	0 ... 10 bar	14	-
0820019616	0 ... 7 bar	14	-
0820019965	0 ... 7 bar	14	Basic valve without coil

Part No.	Power consumption	ATEX	Weight	
0820019641	-	-	0,096 kg	-
0820019644	Low power consumption	-	0,096 kg	-
0820019642	-	-	0,096 kg	-
0820019640	-	-	0,096 kg	-
0820019968	-	suitable for ATEX	0,041 kg	1)
0820019691	-	-	0,096 kg	-
0820019631	-	-	0,096 kg	-
0820019967	-	suitable for ATEX	0,041 kg	1)
0820019681	-	-	0,096 kg	-
0820019616	-	-	0,096 kg	-
0820019965	-	suitable for ATEX	0,041 kg	1)

Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

1) cannot be combined with coil with 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.

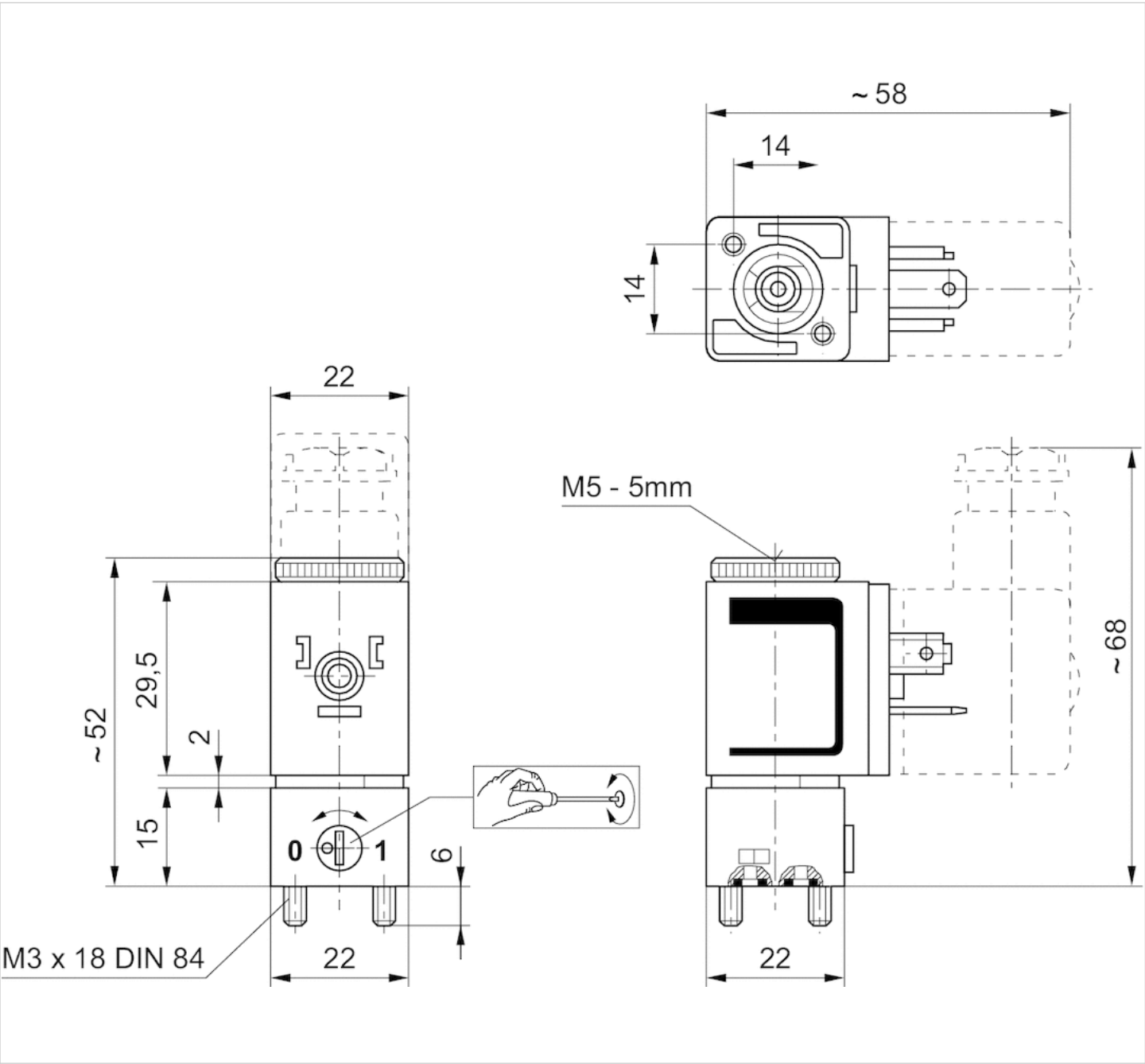
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Housing	Plastic
Seals	Fluorocarbon

Dimensions

Dimensions



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



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