

Valve systems ▶ Valve systems

5/3-directional valve, Series AV05

► Qn = 650 l/min ► plate connection ► Manual override: with detent, without detent, without ► double solenoid
► Pilot: External



23145

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Working pressure min./max.	-0.9 bar / 10 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	-10 °C / +60 °C
Medium temperature min./max.	-10 °C / +60 °C
Medium	Compressed air
Max. particle size	40 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
	With collective pilot air exhaust
Degree of protection With connection	IP65
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	13 ms
Switch-off time	13 ms
Mounting screw	Hexalobular socket (TORX) ISO 10664-8
mounting screw tightening torque	0.5 Nm
Tightening torque tolerance	±0,1
Weight	0.062 kg
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Hydrogenated acrylonitrile butadiene rubber
End plate	Polyamide, fiber-glass reinforced

Technical Remarks

- 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, see chapter „Technical information“.
- The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

Operational voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.55

	MO	Operational voltage	Power consumption	Flow conductance	Flow rate value	Part No.
		DC	24 V DC	b	C	
			[W]		[l/(s*bar)]	[l/min]
		24 V	0.55	0.37	2.49	650
						650
						520
						R422103004

HHB = Manual override
Basic valve with pilot valve
Nominal flow Qn at 6 bar and Δp = 1 bar

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	MO	Opera- tional voltage	Power consump- tion	Flow conductance		Flow rate value			Part No.
		DC	24 V DC	b	C	Qn	Qn 1►2	Qn 2►3	
			[W]		[l/(s*bar)]	[l/min]			
		24 V	0.55	0.37	2.49	650	650	520	R422103005
	-	24 V	0.55	0.37	2.49	650	650	520	R422103079
HHB = Manual override Basic valve with pilot valve Nominal flow Qn at 6 bar and Δp = 1 bar									

Dimensions, double solenoid

1) Manual override: with detent

2) manual override: without detent

3) Manual override: without detent

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