

5/3-directional valve, Series AV05

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

Working pressure min./max.

► Pilot: External



Version Spool valve, zero overlap

Sealing principle Soft sealing

Blocking principle Base plate principle, multiple

Control pressure 3 bar / 8 bar min./max.

Ambient temperature min./max. -10°C / +60°C

Medium temperature min./max. -10°C / +60°C

Max. particle size 40 μm

Oil content of compressed air 0 mg/m³ - 5 mg/m³

With collective pilot air exhaust

-0.9 bar / 10 bar

Compressed air

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 $\pm 0,1$ Weight 0.062 kg

Materials:

Medium

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.

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- 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		Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.55

	МО	Opera- tional voltage	Power consump-	Flow conductance		Flow rate value			Part No.
		DC	24 V DC	b	С	Qn	Qn 1▶2	Qn 2▶3	
			[W]		[l/(s*bar)]	[l/min]			
14 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	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 $\Delta p = 1$ bar





Valve systems ► Valve systems

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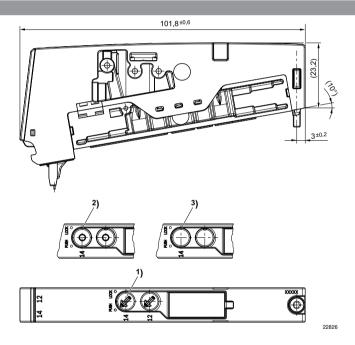
- ► Qn = 650 l/min ► plate connection ► Manual override: with detent, without detent, without ► double solenoid
- ► Pilot: External

МО	Opera- tional voltage		Flow conductance		Flow rate value			Part No.
	DC	24 V DC	b	С	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 $\Delta p = 1$ bar

Dimensions, double solenoid



- 1) Manual override: with detent
- 2) manual override: without detent
- 3) Manual override: without detent