

Directional valves ▶ Electrically operated, according to standard

5/2-directional valve, Series CD02-AL

▶ Qn = 450 l/min ▶ Pilot valve width: 15 mm ▶ plate connection ▶ Compressed air connection output: VDMA 02 base plate ▶ Electr. connection: Plug, ISO 15217, form C ▶ Can be assembled into blocks ▶ Manual override: without detent ▶ single solenoid, double solenoid ▶ Pilot: internal



00108699

Standards	ISO 15407-1, 18 mm
Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Control pressure min./max.	-- / 10 bar
Ambient temperature min./max.	+0 °C / +50 °C
Medium temperature min./max.	+0 °C / +60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow Qn	450 l/min
Pneumatic ports	VDMA 02 base plate
Connector standard	ISO 15217
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	M3
Weight	See table below
Materials:	
Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber; Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Technical Remarks

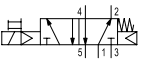

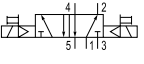

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

Operational voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	24 V	-	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4

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	MO	Compressed air connection			Operating voltage			Power consumption		Part No.
		Output	Exhaust	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
		VDMA 02 base plate	VDMA 02 base plate	VDMA 02 base plate	-	24 V	24 V	-	1.6	0820038154
					24 V	-	-	2	-	0820038152
					24 V	-	-	1	-	0820038153
					-	110 V	110 V	-	1.6	0820038155
					-	230 V	230 V	-	1.6	0820038151
		VDMA 02 base plate	VDMA 02 base plate	VDMA 02 base plate	-	24 V	-	-	1.6	0820038654
					24 V	-	-	2	-	0820038652
					24 V	-	-	1	-	0820038653
					-	110 V	110 V	-	1.6	0820038655
					-	230 V	230 V	-	1.6	0820038651

Part No.	Holding power	Switch-on power	Switch-on power	Working pressure min./max.	Switch-on time	Switch-off time	Weight	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz					
	[VA]	[VA]	[VA]		[ms]	[ms]		
0820038154	1.4	2.2	2		11	14		-
0820038152	-	-	-		11	14		-
0820038153	-	-	-	2 / 10	12	16	0.11	1)
0820038155	1.4	2.2	2		11	14		-
0820038151	1.4	2.2	2		11	14		-
0820038654	1.4	2.2	2		8	8		-
0820038652	-	-	-		8	8		-
0820038653	-	-	-	2 / 10	10	10	0.16	1)
0820038655	1.4	2.2	2		8	8		-
0820038651	1.4	2.2	2		8	8		-

MO = Manual override

1) Low power consumption

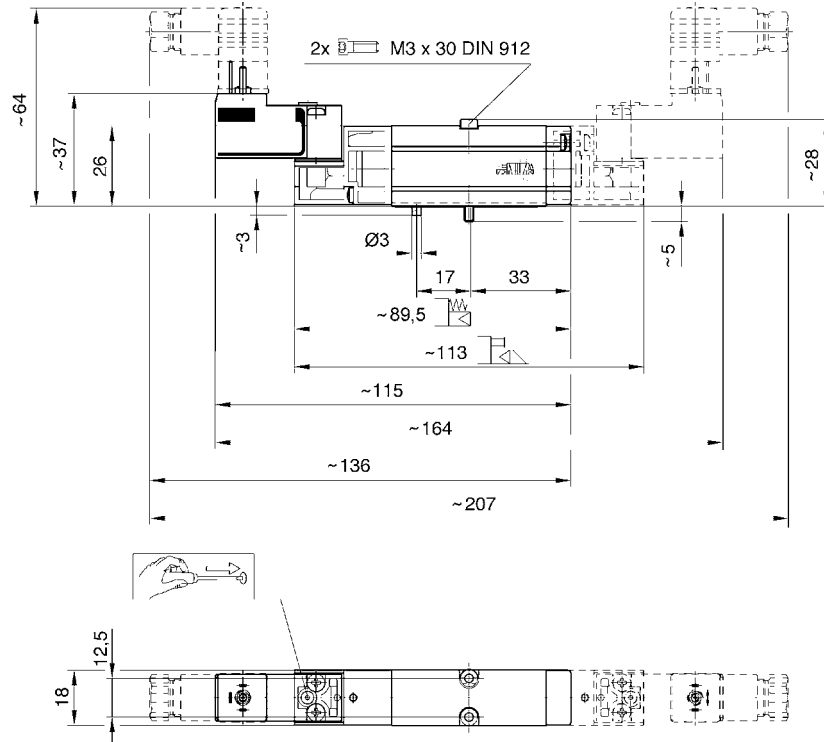
Nominal flow Q_n at 6 bar and Δp = 1 bar

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Dimensions



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