

Directional valves ▶ Electrically operated

5/2-directional valve, Series CD07

- ▶ Qn = 1200 l/min ▶ Pilot valve width: 30 mm ▶ pipe connection ▶ compressed air connection output: G 1/4
- ▶ Electr. connection: Plug, EN 175301-803, form A ▶ Manual override: with detent ▶ double solenoid



Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Mounting on manifold strip	P-strip, PRS strip
Working pressure min./max.	See table below
Control pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-25 °C / +50 °C
Medium temperature min./max.	-25 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Compressed air connection	according to ISO 228-1 with directional pilot air exhaust EN 175301-803:2006
Connector standard	
Degree of protection With connection	See table below Protected against polarity reversal
Compatibility index	13, 14
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Die cast zinc; Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

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“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

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	-	-	-10% / +10%	-	-	2.1	-	-	-	-
24 V	-	-	-20% / +30%	-	-	4.5	-	-	-	-
-	110 V	110 V	-	-20% / +10%	-10% / +20%	-	6.8	5.7	4.3	3.3
-	230 V	230 V	-	-20% / +10%	-10% / +20%	-	6.9	5.8	4.8	4.1
-	24 V	24 V	-	-20% / +10%	-10% / +20%	-	6.9	5.6	4.3	3.2

	MO	Compressed air connection					Operational voltage		Part No.
		Input	Output	Exhaust	Pilot connection	Pilot control exhaust	DC	AC 50 Hz	
		G 1/4	G 1/4	G 1/4	-	M5	24 V	-	5776270220
							24 V	-	5776272220
							-	110 V	5776275270
							-	230 V	5776275280
							-	24 V	5776275220

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	MO	Compressed air connection					Operational voltage		Part No.
		Input	Output	Exhaust	Pilot connection	Pilot control exhaust	DC	AC 50 Hz	
		G 1/4	G 1/4	G 1/4	-	M5	-	-	5776275302
		G 1/4	G 1/4	G 1/4	G 1/8	M5	24 V	-	5776280220 5776285270 5776285280
		G 1/4	G 1/4	G 1/4	G 1/8	M5	-	-	5776285302

Part No.	Operational voltage	Power consumption	Holding power	Holding power	Switch-on power	Switch-on power	Flow rate value			Working pressure min./max.						
							AC 60 Hz	24 V DC	AC 50 Hz		AC 60 Hz	AC 50 Hz	AC 60 Hz	Qn	Qn 1▶2	Qn 2▶3
								[W]	[VA]		[VA]	[VA]	[VA]		[l/min]	
5776270220	-	2.1	-	-	-	-										
5776272220	-	4.5	-	-	-	-										
5776275270	110 V	-	4.3	3.3	6.8	5.7	1200	1200	1200		2 / 10					
5776275280	230 V	-	4.8	4.1	6.9	5.8										
5776275220	24 V	-	4.3	3.2	6.9	5.6										
5776275302	-	-	-	-	-	-	1200	1200	1200		2 / 10					
5776280220	-	2.1	-	-	-	-										
5776285270	110 V	-	4.3	3.3	6.8	5.7	1200	1200	1200		-0.95 / 10					
5776285280	230 V	-	4.8	4.1	6.9	5.8										
5776285302	-	-	-	-	-	-	1200	1200	1200		-0.95 / 10					

Part No.	Switch-on time	Switch-off time	Protection class	Weight	Note
	t_F	t_E			
	[ms]	[ms]		[kg]	
5776270220					1)
5776272220					1); 4)
5776275270	21	21	IP65	0.75	1)
5776275280					1)
5776275220					1)
5776275302	-	-	-	-	1); 3); 5)
5776280220					
5776285270	21	21	IP65	0.75	2)
5776285280					
5776285302	-	-	-	-	2); 3); 5)

HHB = Manual override

- 1) Pilot: internal
- 2) Pilot: External
- 3) Basic valve without coil
- 4) Higher power consumption
- 5) ATEX optional

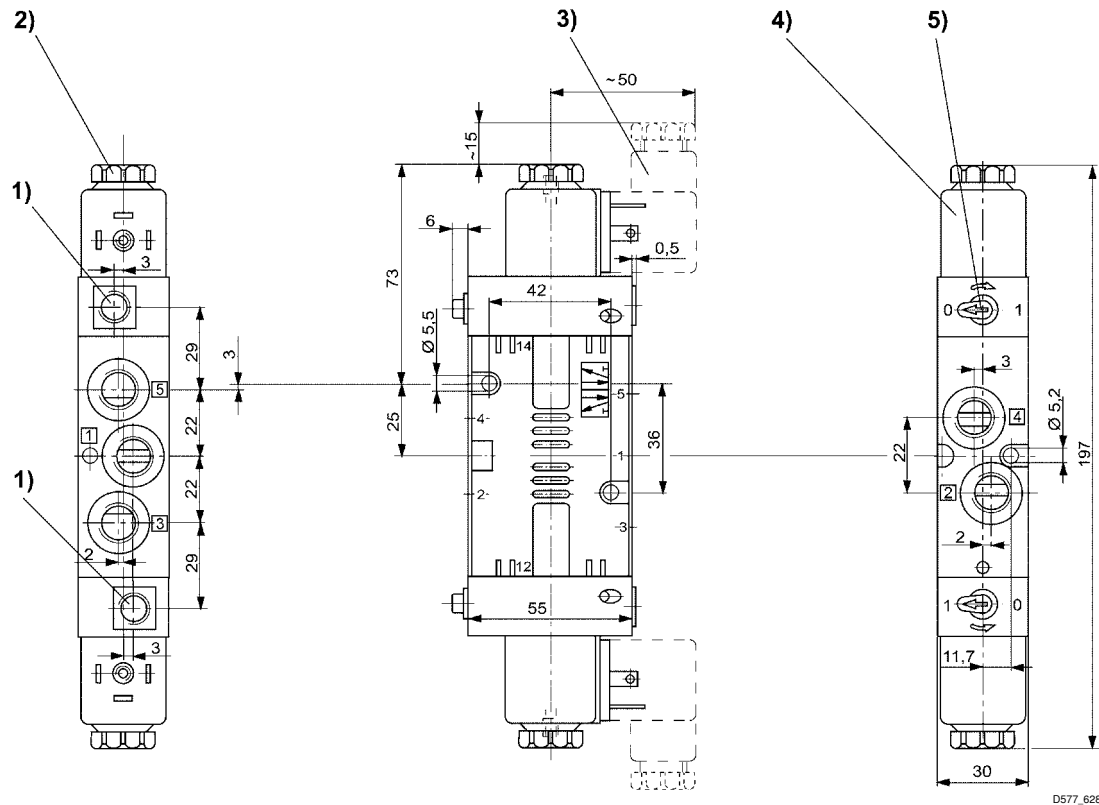
Nominal flow Qn at 6 bar and Δp = 1 bar

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Dimensions



D577_628

- 1) only with separate pilot control G 1/8 2) after removal of cap M 5 internal thread M5 3) el. connector can
4) coil can be plugged at 45° intervals 5) manual override