3/2-directional valve, Series 579

- NC
- Qn = 520 l/min
- Pipe connection
- Compressed air connection output Ø 6x1
- Electrical connection Plug, ISO 15217, form C

Type	Poppet valve
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Working pressure min./max.	0,5 ... 8 bar
Control pressure min./max.	2 ... 8 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 1 mg/m³
Nominal flow Qn	520 l/min
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Duty cycle	100 %
Typ. switch-on time	18 ms
Typ. switch-off time	16 ms
Weight	0,093 kg

Technical data

Part No.			Type
5790570210		NC	Inlet valve
5790570220		NC	Inlet valve
5790570620		NC	Inlet valve
5790575220		NC	Inlet valve
5790575270		NC	Inlet valve
5790575280		NC	Inlet valve
5790575680		NC	Inlet valve
5791570210		NC	Stacking valve
5791570220		NC	Stacking valve
5791570620		NC	Stacking valve
5791575220		NC	Stacking valve
5791575270		NC	Stacking valve
5791575280		NC	Stacking valve
5791575680		NC	Stacking valve
5796470210		NC	Stacking valve, additional pressure connection
5796470220		NC	Stacking valve, additional pressure connection
5796470620		NC	Stacking valve, additional pressure connection
5796475220		NC	Stacking valve, additional pressure connection
5796475270		NC	Stacking valve, additional pressure connection
5796475280		NC	Stacking valve, additional pressure connection
5796475680		NC	Stacking valve, additional pressure connection
5796570210		NC	Stacking valve, additional pressure connection
5796570220		NC	Stacking valve, additional pressure connection
5796570620		NC	Stacking valve, additional pressure connection
5796575220		NC	Stacking valve, additional pressure connection
5796575270		NC	Stacking valve, additional pressure connection
5796575280		NC	Stacking valve, additional pressure connection
5796575680		NC	Stacking valve, additional pressure connection
5792570210		NC	End valve
5792570220		NC	End valve
5792570620		NC	End valve
5792575220		NC	End valve
5792575270		NC	End valve
5792575280		NC	End valve
5792575680		NC	End valve

Part No.	Compressed air connection	Compressed air connection
	Input	Output
5790570210	Ø 8x1	Ø 6x1
5790570220	Ø 8x1	Ø 6x1
5790570620	Ø 8x1	Ø 6x1
5790575220	Ø 8x1	Ø 6x1
5790575270	Ø 8x1	Ø 6x1
5790575280	Ø 8x1	Ø 6x1
5790575680	Ø 8x1	Ø 6x1
5791570210	-	Ø 6x1

Part No.	Compressed air connection	Compressed air connection
	Input	Output
5791570220	-	Ø 6x1
5791570620	-	Ø 6x1
5791575220	-	Ø 6x1
5791575270	-	Ø 6x1
5791575280	-	Ø 6x1
5791575680	-	Ø 6x1
5796470210	Ø 6x1	Ø 6x1
5796470220	Ø 6x1	Ø 6x1
5796470620	Ø 6x1	Ø 6x1
5796475220	Ø 6x1	Ø 6x1
5796475270	Ø 6x1	Ø 6x1
5796475280	Ø 6x1	Ø 6x1
5796475680	Ø 6x1	Ø 6x1
5796570210	Ø 8x1	Ø 6x1
5796570220	Ø 8x1	Ø 6x1
5796570620	Ø 8x1	Ø 6x1
5796575220	Ø 8x1	Ø 6x1
5796575270	Ø 8x1	Ø 6x1
5796575280	Ø 8x1	Ø 6x1
5796575680	Ø 8x1	Ø 6x1
5792570210	-	Ø 6x1
5792570220	-	Ø 6x1
5792570620	-	Ø 6x1
5792575220	-	Ø 6x1
5792575270	-	Ø 6x1
5792575280	-	Ø 6x1
5792575680	-	Ø 6x1

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Pilot connection	DC	AC 50 Hz
5790570210	Ø 4	12 V	-
5790570220	Ø 4	24 V	-
5790570620	Ø 4	24 V	-
5790575220	Ø 4	-	24 V
5790575270	Ø 4	-	110 V
5790575280	Ø 4	-	230 V
5790575680	Ø 4	-	230 V
5791570210	Ø 4	12 V	-
5791570220	Ø 4	24 V	-
5791570620	Ø 4	24 V	-
5791575220	Ø 4	-	24 V
5791575270	Ø 4	-	110 V
5791575280	Ø 4	-	230 V
5791575680	Ø 4	-	230 V
5796470210	Ø 4	12 V	-
5796470220	Ø 4	24 V	-
5796470620	Ø 4	24 V	-

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Pilot connection	DC	AC 50 Hz
5796475220	Ø 4	-	24 V
5796475270	Ø 4	-	110 V
5796475280	Ø 4	-	230 V
5796475680	Ø 4	-	230 V
5796570210	Ø 4	12 V	-
5796570220	Ø 4	24 V	-
5796570620	Ø 4	24 V	-
5796575220	Ø 4	-	24 V
5796575270	Ø 4	-	110 V
5796575280	Ø 4	-	230 V
5796575680	Ø 4	-	230 V
5792570210	Ø 4	12 V	-
5792570220	Ø 4	24 V	-
5792570620	Ø 4	24 V	-
5792575220	Ø 4	-	24 V
5792575270	Ø 4	-	110 V
5792575280	Ø 4	-	230 V
5792575680	Ø 4	-	230 V

Part No.	Operational voltage	Power consumption	Holding power	Holding power
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5790570210	-	1,6 W	-	-
5790570220	-	1,6 W	-	-
5790570620	-	1,7 W	-	-
5790575220	24 V	-	2,2 VA	1,8 VA
5790575270	110 V	-	3 VA	2,4 VA
5790575280	230 V	-	2,3 VA	2 VA
5790575680	230 V	-	2,5 VA	2,2 VA
5791570210	-	1,6 W	-	-
5791570220	-	1,6 W	-	-
5791570620	-	1,7 W	-	-
5791575220	24 V	-	2,2 VA	1,8 VA
5791575270	110 V	-	3 VA	2,4 VA
5791575280	230 V	-	2,3 VA	2 VA
5791575680	230 V	-	2,5 VA	2,2 VA
5796470210	-	1,6 W	-	-
5796470220	-	1,6 W	-	-
5796470620	-	1,7 W	-	-
5796475220	24 V	-	2,2 VA	1,8 VA
5796475270	110 V	-	3 VA	2,4 VA
5796475280	230 V	-	2,3 VA	2 VA
5796475680	230 V	-	2,5 VA	2,2 VA
5796570210	-	1,6 W	-	-
5796570220	-	1,6 W	-	-
5796570620	-	1,7 W	-	-
5796575220	24 V	-	2,2 VA	1,8 VA
5796575270	110 V	-	3 VA	2,4 VA

Part No.	Operational voltage	Power consumption	Holding power	Holding power
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5796575280	230 V	-	2,3 VA	2 VA
5796575680	230 V	-	2,5 VA	2,2 VA
5792570210	-	1,6 W	-	-
5792570220	-	1,6 W	-	-
5792570620	-	1,7 W	-	-
5792575220	24 V	-	2,2 VA	1,8 VA
5792575270	110 V	-	3 VA	2,4 VA
5792575280	230 V	-	2,3 VA	2 VA
5792575680	230 V	-	2,5 VA	2,2 VA

Part No.	Switch-on power	Switch-on power	Pilot	LED
	AC 50 Hz	AC 60 Hz		
5790570210	-	-	External	-
5790570220	-	-	External	-
5790570620	-	-	External	Red
5790575220	3 VA	2,6 VA	External	-
5790575270	4,2 VA	3,4 VA	External	-
5790575280	3,2 VA	2,8 VA	External	-
5790575680	3,4 VA	3 VA	External	Red
5791570210	-	-	External	-
5791570220	-	-	External	-
5791570620	-	-	External	Red
5791575220	3 VA	2,6 VA	External	-
5791575270	4,2 VA	3,4 VA	External	-
5791575280	3,2 VA	2,8 VA	External	-
5791575680	3,4 VA	3 VA	External	Red
5796470210	-	-	External	-
5796470220	-	-	External	-
5796470620	-	-	External	Red
5796475220	3 VA	2,6 VA	External	-
5796475270	4,2 VA	3,4 VA	External	-
5796475280	3,2 VA	2,8 VA	External	-
5796475680	3,4 VA	3 VA	External	Red
5796570210	-	-	External	-
5796570220	-	-	External	-
5796570620	-	-	External	Red
5796575220	3 VA	2,6 VA	External	-
5796575270	4,2 VA	3,4 VA	External	-
5796575280	3,2 VA	2,8 VA	External	-
5796575680	3,4 VA	3 VA	External	Red
5792570210	-	-	External	-
5792570220	-	-	External	-
5792570620	-	-	External	Red
5792575220	3 VA	2,6 VA	External	-
5792575270	4,2 VA	3,4 VA	External	-
5792575280	3,2 VA	2,8 VA	External	-
5792575680	3,4 VA	3 VA	External	Red

Part No.	Protected against polarity reversal	
5790570210	Protected against polarity reversal	-
5790570220	Protected against polarity reversal	-
5790570620	Protected against polarity reversal	1)
5790575220	Protected against polarity reversal	-
5790575270	Protected against polarity reversal	-
5790575280	Protected against polarity reversal	-
5790575680	Protected against polarity reversal	-
5791570210	Protected against polarity reversal	-
5791570220	Protected against polarity reversal	-
5791570620	Protected against polarity reversal	1)
5791575220	Protected against polarity reversal	-
5791575270	Protected against polarity reversal	-
5791575280	Protected against polarity reversal	-
5791575680	Protected against polarity reversal	-
5796470210	Protected against polarity reversal	-
5796470220	Protected against polarity reversal	-
5796470620	Protected against polarity reversal	1)
5796475220	Protected against polarity reversal	-
5796475270	Protected against polarity reversal	-
5796475280	Protected against polarity reversal	-
5796475680	Protected against polarity reversal	-
5796570210	Protected against polarity reversal	-
5796570220	Protected against polarity reversal	-
5796570620	Protected against polarity reversal	1)
5796575220	Protected against polarity reversal	-
5796575270	Protected against polarity reversal	-
5796575280	Protected against polarity reversal	-
5796575680	Protected against polarity reversal	-
5792570210	Protected against polarity reversal	-
5792570220	Protected against polarity reversal	-
5792570620	Protected against polarity reversal	1)
5792575220	Protected against polarity reversal	-
5792575270	Protected against polarity reversal	-
5792575280	Protected against polarity reversal	-
5792575680	Protected against polarity reversal	-

Nominal flow Qn at 6 bar and Δp = 1 bar

1) with LED and protective diode for reducing voltage peaks in the solenoid coil

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).

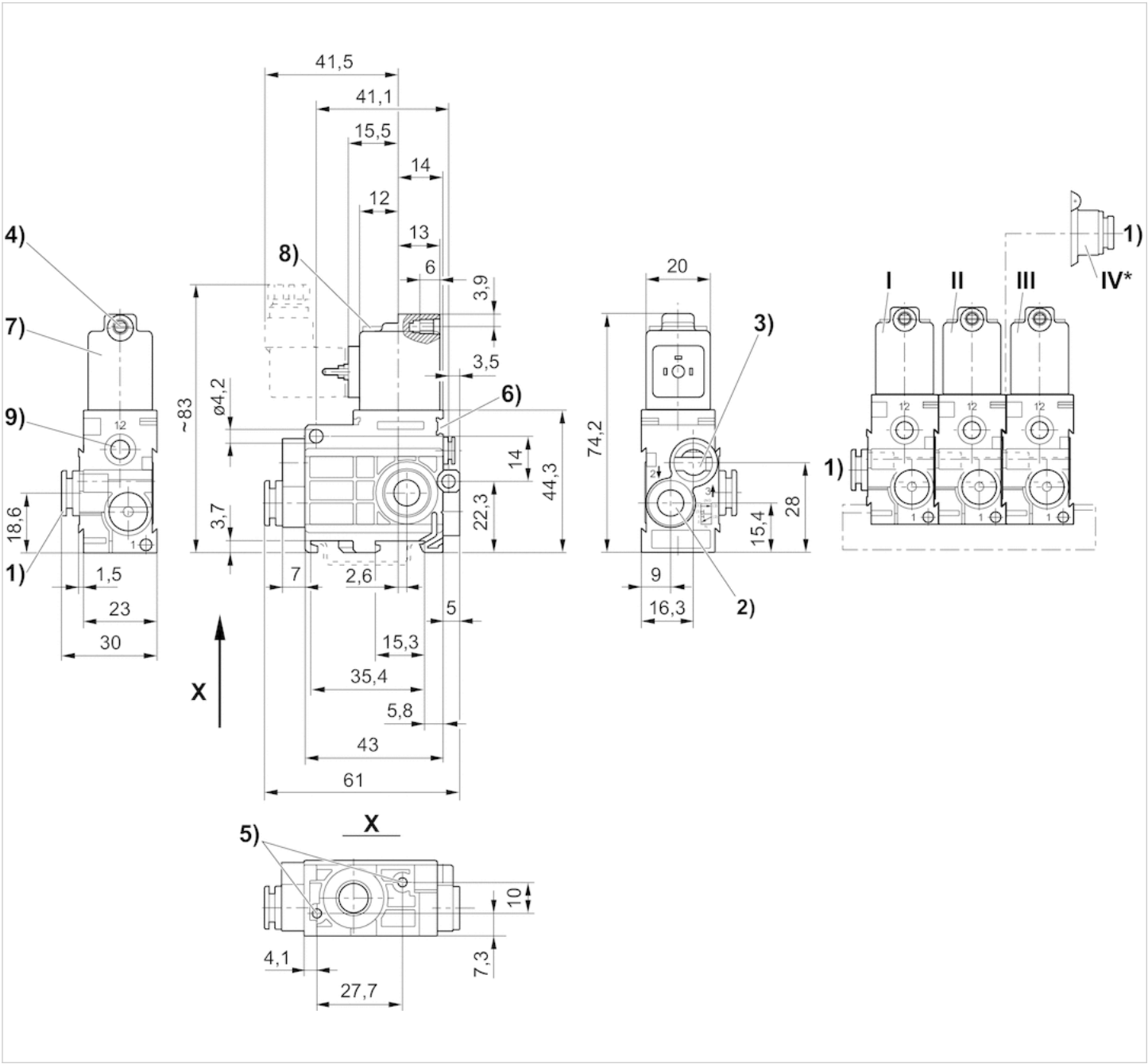
At an ambient temperature of 40 °C the max. working pressure is 10 bar .
Versions with voltage of less than 50 V DC do not have a protective ground.
The control pressure must be at least as high as the working pressure.

Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Dimensions



1) Port 1
2) Port 2
3) Port 3, exhaust air must not be throttled
4) Core Ø for M5

5) Pocket hole 6 mm deep for 3.5 self-tapping screw
6) Mounting space for name plate
7) Coil can be rotated at 180° intervals
8) LED
9) Port 12

* Air connection module (item IV) mounted onto stacking valve (item II) permits additional air supply from right hand side. End valve (item III) not required.
I = Inlet valve, II = Stacking valve, III = End valve

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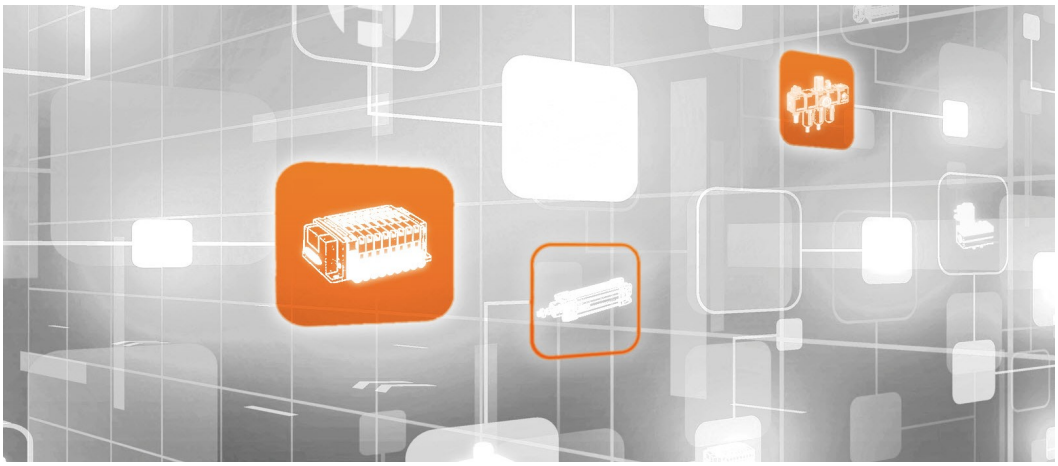

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