

5/2-directional valve, Series 579

- NC
- $Q_n = 520 \text{ l/min}$
- Pipe connection
- Compressed air connection output $\varnothing 6 \times 1$
- Electrical connection Plug, ISO 15217, form C
- Manual override with detent



Type	Poppet valve
Activation	Electrically
Pilot	Internal
Sealing principle	Soft sealing
Working 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/m^3
Nominal flow Q_n	520 l/min
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Duty cycle	100 %
Typ. switch-on time	27 ms
Typ. switch-off time	28 ms
Weight	0,133 kg

Technical data

Part No.		MO		Type
5790800210			NC	Inlet valve
5790800220			NC	Inlet valve
5790800620			NC	Inlet valve
5790805220			NC	Inlet valve
5790805270			NC	Inlet valve
5790805280			NC	Inlet valve
5790805680			NC	Inlet valve
5791805220			NC	Stacking valve
5791800210			NC	Stacking valve
5791800220			NC	Stacking valve
5791800620			NC	Stacking valve
5791805270			NC	Stacking valve
5791805280			NC	Stacking valve
5791805680			NC	Stacking valve
5796700210			NC	Stacking valve, additional pressure connection
5796700220			NC	Stacking valve, additional pressure connection
5796700620			NC	Stacking valve, additional pressure connection
5796705220			NC	Stacking valve, additional pressure connection
5796705270			NC	Stacking valve, additional pressure connection

Part No.		MO		Type
5796705280			NC	Stacking valve, additional pressure connection
5796705680			NC	Stacking valve, additional pressure connection
5796800210			NC	Stacking valve, additional pressure connection
5796800220			NC	Stacking valve, additional pressure connection
5796800620			NC	Stacking valve, additional pressure connection
5796805220			NC	Stacking valve, additional pressure connection
5796805270			NC	Stacking valve, additional pressure connection
5796805280			NC	Stacking valve, additional pressure connection
5796805680			NC	Stacking valve, additional pressure connection
5792800210			NC	End valve
5792800220			NC	End valve
5792800620			NC	End valve
5792805220			NC	End valve
5792805270			NC	End valve
5792805280			NC	End valve
5792805680			NC	End valve

Part No.	Compressed air connection	
	Input	Output
5790800210	Ø 8x1	Ø 6x1
5790800220	Ø 8x1	Ø 6x1
5790800620	Ø 8x1	Ø 6x1
5790805220	Ø 8x1	Ø 6x1
5790805270	Ø 8x1	Ø 6x1
5790805280	Ø 8x1	Ø 6x1
5790805680	Ø 8x1	Ø 6x1
5791805220	-	Ø 6x1
5791800210	-	Ø 6x1
5791800220	-	Ø 6x1
5791800620	-	Ø 6x1
5791805270	-	Ø 6x1
5791805280	-	Ø 6x1
5791805680	-	Ø 6x1
5796700210	Ø 6x1	Ø 6x1
5796700220	Ø 6x1	Ø 6x1
5796700620	Ø 6x1	Ø 6x1
5796705220	Ø 6x1	Ø 6x1
5796705270	Ø 6x1	Ø 6x1
5796705280	Ø 6x1	Ø 6x1
5796705680	Ø 6x1	Ø 6x1
5796800210	Ø 8x1	Ø 6x1
5796800220	Ø 8x1	Ø 6x1
5796800620	Ø 8x1	Ø 6x1
5796805220	Ø 8x1	Ø 6x1
5796805270	Ø 8x1	Ø 6x1
5796805280	Ø 8x1	Ø 6x1
5796805680	Ø 8x1	Ø 6x1
5792800210	-	Ø 6x1

Part No.	Compressed air connection	
	Input	Output
5792800220	-	Ø 6x1
5792800620	-	Ø 6x1
5792805220	-	Ø 6x1
5792805270	-	Ø 6x1
5792805280	-	Ø 6x1
5792805680	-	Ø 6x1

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5790800210	12 V	-	-
5790800220	24 V	-	-
5790800620	24 V	-	-
5790805220	-	24 V	24 V
5790805270	-	110 V	110 V
5790805280	-	230 V	230 V
5790805680	-	230 V	230 V
5791805220	-	24 V	24 V
5791800210	12 V	-	-
5791800220	24 V	-	-
5791800620	24 V	-	-
5791805270	-	110 V	110 V
5791805280	-	230 V	230 V
5791805680	-	230 V	230 V
5796700210	12 V	-	-
5796700220	24 V	-	-
5796700620	24 V	-	-
5796705220	-	24 V	24 V
5796705270	-	110 V	110 V
5796705280	-	230 V	230 V
5796705680	-	230 V	230 V
5796800210	12 V	-	-
5796800220	24 V	-	-
5796800620	24 V	-	-
5796805220	-	24 V	24 V
5796805270	-	110 V	110 V
5796805280	-	230 V	230 V
5796805680	-	230 V	230 V
5792800210	12 V	-	-
5792800220	24 V	-	-
5792800620	24 V	-	-
5792805220	-	24 V	24 V
5792805270	-	110 V	110 V
5792805280	-	230 V	230 V
5792805680	-	230 V	230 V

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5790800210	1,6 W	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5790800220	1,6 W	-	-	-
5790800620	1,7 W	-	-	-
5790805220	-	2,2 VA	1,8 VA	3 VA
5790805270	-	3 VA	2,4 VA	4,2 VA
5790805280	-	2,3 VA	2 VA	3,2 VA
5790805680	-	2,5 VA	2,2 VA	3,4 VA
5791805220	-	2,2 VA	1,8 VA	3 VA
5791800210	1,6 W	-	-	-
5791800220	1,6 W	-	-	-
5791800620	1,7 W	-	-	-
5791805270	-	3 VA	2,4 VA	4,2 VA
5791805280	-	2,3 VA	2 VA	3,2 VA
5791805680	-	2,5 VA	2,2 VA	3,4 VA
5796700210	1,6 W	-	-	-
5796700220	1,6 W	-	-	-
5796700620	1,7 W	-	-	-
5796705220	-	2,2 VA	1,8 VA	3 VA
5796705270	-	3 VA	2,4 VA	4,2 VA
5796705280	-	2,3 VA	2 VA	3,2 VA
5796705680	-	2,5 VA	2,2 VA	3,4 VA
5796800210	1,6 W	-	-	-
5796800220	1,6 W	-	-	-
5796800620	1,7 W	-	-	-
5796805220	-	2,2 VA	1,8 VA	3 VA
5796805270	-	3 VA	2,4 VA	4,2 VA
5796805280	-	2,3 VA	2 VA	3,2 VA
5796805680	-	2,5 VA	2,2 VA	3,4 VA
5792800210	1,6 W	-	-	-
5792800220	1,6 W	-	-	-
5792800620	1,7 W	-	-	-
5792805220	-	2,2 VA	1,8 VA	3 VA
5792805270	-	3 VA	2,4 VA	4,2 VA
5792805280	-	2,3 VA	2 VA	3,2 VA
5792805680	-	2,5 VA	2,2 VA	3,4 VA

Part No.	Switch-on power	Pilot	LED	Protected against polarity reversal	
	AC 60 Hz				
5790800210	-	Internal	-	Protected against polarity reversal	-
5790800220	-	Internal	-	Protected against polarity reversal	-
5790800620	-	Internal	Red	Protected against polarity reversal	1)
5790805220	2,6 VA	Internal	-	Protected against polarity reversal	-
5790805270	3,4 VA	Internal	-	Protected against polarity reversal	-
5790805280	2,8 VA	Internal	-	Protected against polarity reversal	-
5790805680	3 VA	Internal	Red	Protected against polarity reversal	-
5791805220	2,6 VA	Internal	-	Protected against polarity reversal	-
5791800210	-	Internal	-	Protected against polarity reversal	-
5791800220	-	Internal	-	Protected against polarity reversal	-
5791800620	-	Internal	Red	Protected against polarity reversal	1)

Part No.	Switch-on power	Pilot	LED	Protected against polarity reversal	
	AC 60 Hz				
5791805270	3,4 VA	Internal	-	Protected against polarity reversal	-
5791805280	2,8 VA	Internal	-	Protected against polarity reversal	-
5791805680	3 VA	Internal	Red	Protected against polarity reversal	-
5796700210	-	Internal	-	Protected against polarity reversal	-
5796700220	-	Internal	-	Protected against polarity reversal	-
5796700620	-	Internal	Red	Protected against polarity reversal	1)
5796705220	2,6 VA	Internal	-	Protected against polarity reversal	-
5796705270	3,4 VA	Internal	-	Protected against polarity reversal	-
5796705280	2,8 VA	Internal	-	Protected against polarity reversal	-
5796705680	3 VA	Internal	Red	Protected against polarity reversal	-
5796800210	-	Internal	-	Protected against polarity reversal	-
5796800220	-	Internal	-	Protected against polarity reversal	-
5796800620	-	Internal	Red	Protected against polarity reversal	1)
5796805220	2,6 VA	Internal	-	Protected against polarity reversal	-
5796805270	3,4 VA	Internal	-	Protected against polarity reversal	-
5796805280	2,8 VA	Internal	-	Protected against polarity reversal	-
5796805680	3 VA	Internal	Red	Protected against polarity reversal	-
5792800210	-	Internal	-	Protected against polarity reversal	-
5792800220	-	Internal	-	Protected against polarity reversal	-
5792800620	-	Internal	Red	Protected against polarity reversal	1)
5792805220	2,6 VA	Internal	-	Protected against polarity reversal	-
5792805270	3,4 VA	Internal	-	Protected against polarity reversal	-
5792805280	2,8 VA	Internal	-	Protected against polarity reversal	-
5792805680	3 VA	Internal	Red	Protected against polarity reversal	-

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

1) With LED and protective diode for reducing voltage peaks in the solenoid coil, protected against polarity reversal

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 .

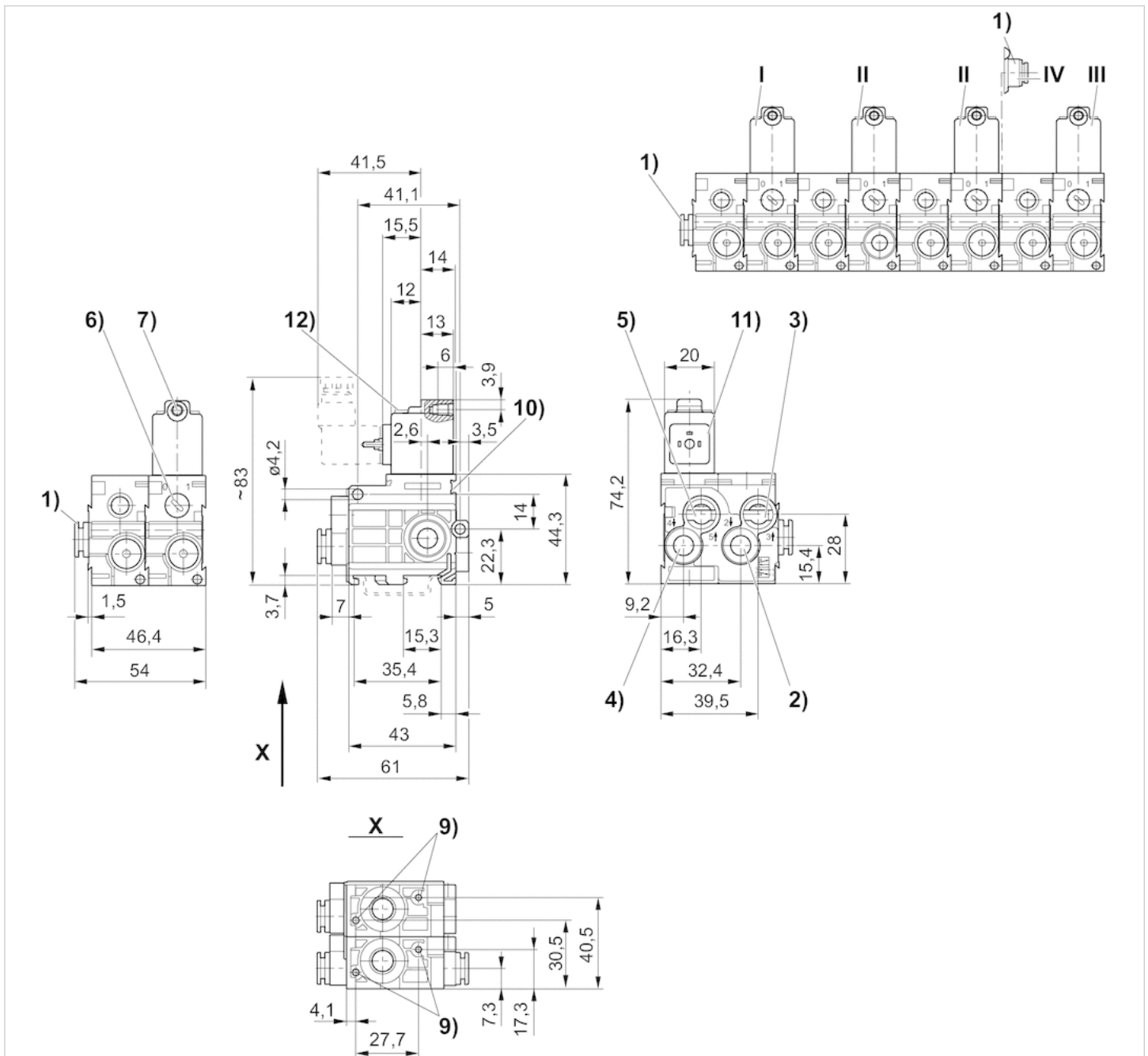
Versions with voltage of less than 50 V DC do not have a protective ground.

Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

Dimensions

Dimensions



- 1) Port 1
- 2) Port 2
- 3) Port 3
- 4) Port 4
- 5) Port 5
- 6) Manual override
- 7) Core Ø for M5
- 8) Exhaust air must not be throttled
- 9) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 10) mounting space for name plate
- 11) Coil can be rotated at 180° intervals
- 12) LED

* 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

* Order air connection module 5790000092 separately

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: [Emerson.com/Aventics](https://emerson.com/aventics)

Your local contact: [Emerson.com/contactus](https://emerson.com/contactus)



Emerson.com



Facebook.com/EmersonAutomationSolutions



LinkedIn.com/company/Emerson-Automation-Solutions



Twitter.com/EMR_Automation

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and aging.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. © 2020 Emerson Electric Co. All rights reserved.
2020-12



CONSIDER IT SOLVED™