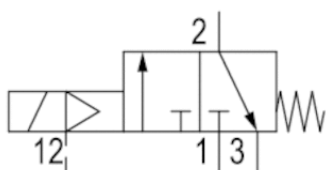


3/2-directional valve, Series 579

- NC
- $Q_n = 850 \text{ l/min}$
- Pipe connection
- Compressed air connection output $\varnothing 8 \times 1$
- 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/m ³
Nominal flow Q_n	850 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	Compressed air connection
			Input
5790670210	NC	Inlet valve	$\varnothing 8 \times 1$
5790670220	NC	Inlet valve	$\varnothing 8 \times 1$
5790670620	NC	Inlet valve	$\varnothing 8 \times 1$
5790675220	NC	Inlet valve	$\varnothing 8 \times 1$
5790675270	NC	Inlet valve	$\varnothing 8 \times 1$
5790675280	NC	Inlet valve	$\varnothing 8 \times 1$
5790675680	NC	Inlet valve	$\varnothing 8 \times 1$
5791670210	NC	Stacking valve	-
5791670220	NC	Stacking valve	-
5791670620	NC	Stacking valve	-
5791675220	NC	Stacking valve	-
5791675270	NC	Stacking valve	-
5791675280	NC	Stacking valve	-
5791675680	NC	Stacking valve	-
5796670210	NC	Stacking valve, additional pressure connection	$\varnothing 8 \times 1$
5796670220	NC	Stacking valve, additional pressure connection	$\varnothing 8 \times 1$
5796670620	NC	Stacking valve, additional pressure connection	$\varnothing 8 \times 1$
5796675220	NC	Stacking valve, additional pressure connection	$\varnothing 8 \times 1$
5796675270	NC	Stacking valve, additional pressure connection	$\varnothing 8 \times 1$

Part No.		Type	Compressed air connection
			Input
5796675280	NC	Stacking valve, additional pressure connection	Ø 8x1
5796675680	NC	Stacking valve	Ø 8x1
5792670210	NC	End valve	-
5792670220	NC	End valve	-
5792670620	NC	End valve	-
5792675220	NC	End valve	-
5792675270	NC	End valve	-
5792675280	NC	End valve	-
5792675680	NC	End valve	-

Part No.	Compressed air connection	Compressed air connection
	Output	Pilot connection
5790670210	Ø 8x1	Ø 4
5790670220	Ø 8x1	Ø 4
5790670620	Ø 8x1	Ø 4
5790675220	Ø 8x1	Ø 4
5790675270	Ø 8x1	Ø 4
5790675280	Ø 8x1	Ø 4
5790675680	Ø 8x1	Ø 4
5791670210	Ø 8x1	Ø 4
5791670220	Ø 8x1	Ø 4
5791670620	Ø 8x1	Ø 4
5791675220	Ø 8x1	Ø 4
5791675270	Ø 8x1	Ø 4
5791675280	Ø 8x1	Ø 4
5791675680	Ø 8x1	Ø 4
5796670210	Ø 8x1	Ø 4
5796670220	Ø 8x1	Ø 4
5796670620	Ø 8x1	Ø 4
5796675220	Ø 8x1	Ø 4
5796675270	Ø 8x1	Ø 4
5796675280	Ø 8x1	Ø 4
5796675680	Ø 8x1	Ø 4
5792670210	Ø 8x1	Ø 4
5792670220	Ø 8x1	Ø 4
5792670620	Ø 8x1	Ø 4
5792675220	Ø 8x1	Ø 4
5792675270	Ø 8x1	Ø 4
5792675280	Ø 8x1	Ø 4
5792675680	Ø 8x1	Ø 4

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5790670210	12 V	-	-
5790670220	24 V	-	-
5790670620	24 V	-	-
5790675220	-	24 V	24 V
5790675270	-	110 V	110 V

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5790675280	-	230 V	230 V
5790675680	-	230 V	230 V
5791670210	12 V	-	-
5791670220	24 V	-	-
5791670620	24 V	-	-
5791675220	-	24 V	24 V
5791675270	-	110 V	110 V
5791675280	-	230 V	230 V
5791675680	-	230 V	230 V
5796670210	12 V	-	-
5796670220	24 V	-	-
5796670620	24 V	-	-
5796675220	-	24 V	24 V
5796675270	-	110 V	110 V
5796675280	-	230 V	230 V
5796675680	-	230 V	230 V
5792670210	12 V	-	-
5792670220	24 V	-	-
5792670620	24 V	-	-
5792675220	-	24 V	24 V
5792675270	-	110 V	110 V
5792675280	-	230 V	230 V
5792675680	-	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
5790670210	1,6 W	-	-	-
5790670220	1,6 W	-	-	-
5790670620	1,7 W	-	-	-
5790675220	-	2,2 VA	1,8 VA	3 VA
5790675270	-	3 VA	2,4 VA	4,2 VA
5790675280	-	2,3 VA	2 VA	3,2 VA
5790675680	-	2,5 VA	2,2 VA	3,4 VA
5791670210	1,6 W	-	-	-
5791670220	1,6 W	-	-	-
5791670620	1,7 W	-	-	-
5791675220	-	2,2 VA	1,8 VA	3 VA
5791675270	-	3 VA	2,4 VA	4,2 VA
5791675280	-	2,3 VA	2 VA	3,2 VA
5791675680	-	2,5 VA	2,2 VA	3,4 VA
5796670210	1,6 W	-	-	-
5796670220	1,6 W	-	-	-
5796670620	1,7 W	-	-	-
5796675220	-	2,2 VA	1,8 VA	3 VA
5796675270	-	3 VA	2,4 VA	4,2 VA
5796675280	-	2,3 VA	2 VA	3,2 VA
5796675680	-	2,5 VA	2,2 VA	3,4 VA

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5792670210	1,6 W	-	-	-
5792670220	1,6 W	-	-	-
5792670620	1,7 W	-	-	-
5792675220	-	2,2 VA	1,8 VA	3 VA
5792675270	-	3 VA	2,4 VA	4,2 VA
5792675280	-	2,3 VA	2 VA	3,2 VA
5792675680	-	2,5 VA	2,2 VA	3,4 VA

Part No.	Switch-on power	Pilot	LED	Protected against polarity reversal	
	AC 60 Hz				
5790670210	-	External	-	Protected against polarity reversal	-
5790670220	-	External	-	Protected against polarity reversal	-
5790670620	-	External	Red	Protected against polarity reversal	1)
5790675220	2,6 VA	External	-	Protected against polarity reversal	-
5790675270	3,4 VA	External	-	Protected against polarity reversal	-
5790675280	2,8 VA	External	-	Protected against polarity reversal	-
5790675680	3 VA	External	Red	Protected against polarity reversal	-
5791670210	-	External	-	Protected against polarity reversal	-
5791670220	-	External	-	Protected against polarity reversal	-
5791670620	-	External	Red	Protected against polarity reversal	1)
5791675220	2,6 VA	External	-	Protected against polarity reversal	-
5791675270	3,4 VA	External	-	Protected against polarity reversal	-
5791675280	2,8 VA	External	-	Protected against polarity reversal	-
5791675680	3 VA	External	Red	Protected against polarity reversal	-
5796670210	-	External	-	Protected against polarity reversal	-
5796670220	-	External	-	Protected against polarity reversal	-
5796670620	-	External	Red	Protected against polarity reversal	1)
5796675220	2,6 VA	External	-	Protected against polarity reversal	-
5796675270	3,4 VA	External	-	Protected against polarity reversal	-
5796675280	2,8 VA	External	-	Protected against polarity reversal	-
5796675680	3 VA	External	Red	Protected against polarity reversal	-
5792670210	-	External	-	Protected against polarity reversal	-
5792670220	-	External	-	Protected against polarity reversal	-
5792670620	-	External	Red	Protected against polarity reversal	1)
5792675220	2,6 VA	External	-	Protected against polarity reversal	-
5792675270	3,4 VA	External	-	Protected against polarity reversal	-
5792675280	2,8 VA	External	-	Protected against polarity reversal	-
5792675680	3 VA	External	Red	Protected against polarity reversal	-

Nominal flow Q_n at 6 bar and $\Delta p = 1$ 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).

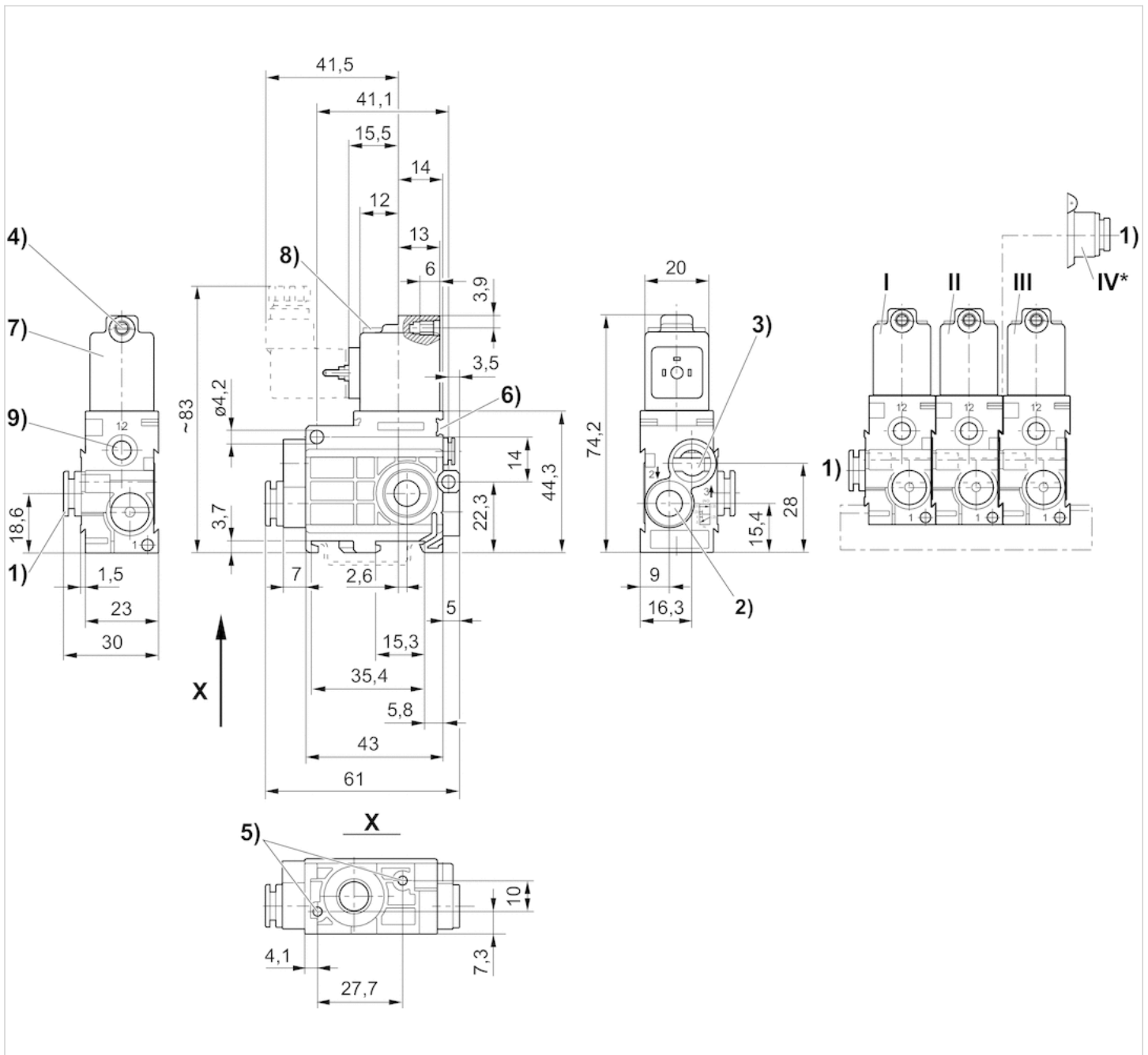
At an ambient temperature of 40 °C the max. working pressure is 10 bar .
Versions with voltage of less than 50 V DC do not have a protective ground.
The control pressure must be at least as high as the working pressure.

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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