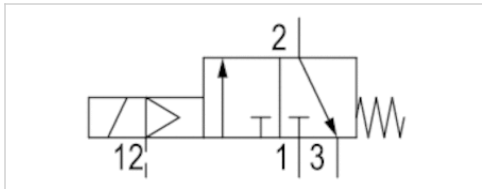


3/2-directional valve, Series 579

- 3/2
- NC
- Pipe connection
- Compressed air connection output : Ø 1/4"
- Can be assembled into blocks
- Inlet valve Stacking valve Stacking valve, additional pressure connection End valve
- Manual override : with detent
- With spring return
- Pilot : External



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
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
5790470310	NC	Inlet valve	-
5790570310	NC	Inlet valve	5/16"
5791570310	NC	Stacking valve	-
5796470310	NC	Stacking valve, additional pressure connection	-
5796570310	NC	Stacking valve, additional pressure connection	5/16"
5792570310	NC	End valve	-
5790470320	NC	Inlet valve	Ø 1/4"
5790570320	NC	Inlet valve	5/16"
5791570320	NC	Stacking valve	-
5796470320	NC	Stacking valve, additional pressure connection	Ø 1/4"
5796570320	NC	Stacking valve, additional pressure connection	5/16"
5792570320	NC	End valve	-
5790470720	NC	Inlet valve	Ø 1/4"
5790570720	-	Inlet valve	5/16"
5791570720	NC	Stacking valve	-
5796470720	NC	Stacking valve, additional pressure connection	Ø 1/4"

Part No.		Type	Compressed air connection
			Input
5796570720	NC	Stacking valve, additional pressure connection	5/16"
5792570720	NC	End valve	-

Part No.	Compressed air connection	Compressed air connection
	Output	Pilot control exhaust
5790470310	Ø 1/4"	5/32"
5790570310	Ø 1/4"	5/32"
5791570310	Ø 1/4"	5/32"
5796470310	Ø 1/4"	5/32"
5796570310	Ø 1/4"	5/32"
5792570310	Ø 1/4"	5/32"
5790470320	Ø 1/4"	5/32"
5790570320	Ø 1/4"	5/32"
5791570320	Ø 1/4"	5/32"
5796470320	Ø 1/4"	5/32"
5796570320	Ø 1/4"	5/32"
5792570320	Ø 1/4"	5/32"
5790470720	Ø 1/4"	5/32"
5790570720	Ø 1/4"	5/32"
5791570720	Ø 1/4"	5/32"
5796470720	Ø 1/4"	5/32"
5796570720	Ø 1/4"	5/32"
5792570720	Ø 1/4"	5/32"

Part No.	Operational voltage	Power consumption	Pilot
		DC	
5790470310	12 V	1.6 W	External
5790570310	12 V	1.6 W	External
5791570310	12 V	1.6 W	External
5796470310	12 V	1.6 W	External
5796570310	12 V	1.6 W	External
5792570310	12 V	1.6 W	External
5790470320	24 V	1.6 W	External
5790570320	-	-	External
5791570320	-	-	External
5796470320	-	-	External
5796570320	-	-	External
5792570320	-	-	External
5790470720	24 V	1.7 W	External
5790570720	24 V	1.7 W	External
5791570720	24 V	1.7 W	External
5796470720	24 V	1.7 W	External
5796570720	24 V	1.7 W	External
5792570720	24 V	1.7 W	External

Part No.	Protected against polarity reversal
5790470310	Protected against polarity reversal

Part No.	Protected against polarity reversal
5790570310	Protected against polarity reversal
5791570310	Protected against polarity reversal
5796470310	Protected against polarity reversal
5796570310	Protected against polarity reversal
5792570310	Protected against polarity reversal
5790470320	Protected against polarity reversal
5790570320	Protected against polarity reversal
5791570320	Protected against polarity reversal
5796470320	Protected against polarity reversal
5796570320	Protected against polarity reversal
5792570320	Protected against polarity reversal
5790470720	Protected against polarity reversal
5790570720	Protected against polarity reversal
5791570720	Protected against polarity reversal
5796470720	Protected against polarity reversal
5796570720	Protected against polarity reversal
5792570720	Protected against polarity reversal

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Technical information

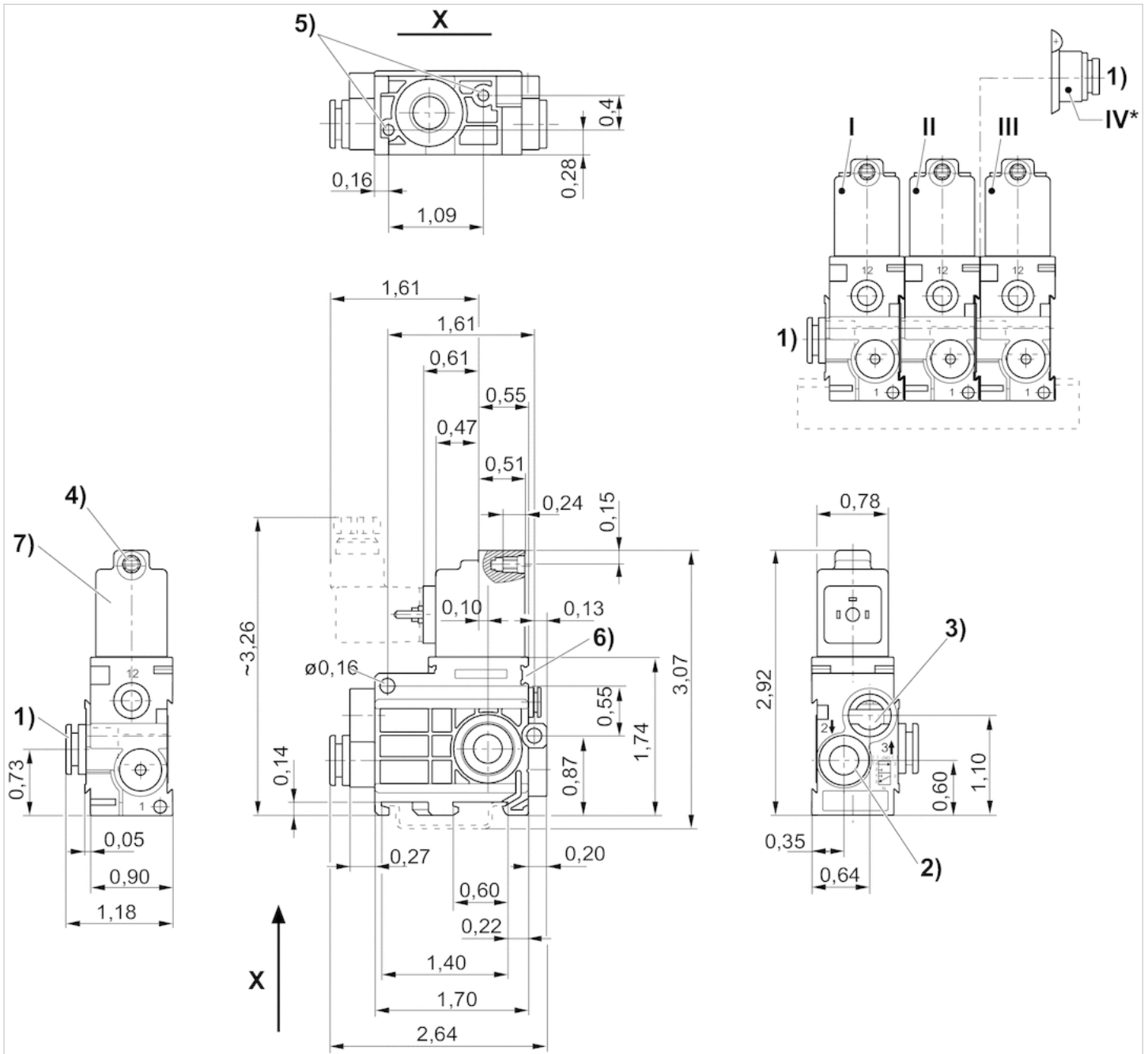
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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) Manual override
- 6) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 7) Mounting space for name plate
- 8) Coil can be rotated at 180° intervals

* Air conn. 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

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



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

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



[Emerson.com](https://www.emerson.com)



[Facebook.com/EmersonAutomationSolutions](https://www.facebook.com/EmersonAutomationSolutions)



[LinkedIn.com/company/Emerson-Automation-Solutions](https://www.linkedin.com/company/Emerson-Automation-Solutions)



[Twitter.com/EMR_Automation](https://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™