

## Series 579 -inch

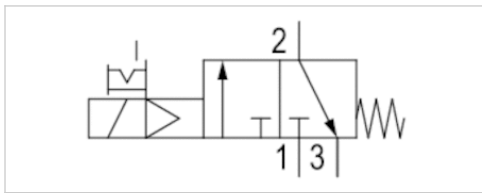


AVENTICS™ Series 579 -inch



# 3/2-directional valve, Series 579

- NC
- Pipe connection
- Compressed air connection output Ø 1/4"
- Manual override with detent



Version	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 <sup>3</sup>
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.	MO	Type	Compressed air connection	
			Input	
5794400310		single valve	Ø 1/4"	
5794400320		single valve	Ø 1/4"	
5794400720		single valve	Ø 1/4"	
5794405320		single valve	Ø 1/4"	
5794405370		single valve	-	
5794405380		single valve	-	
5794405780		single valve	-	

Part No.	Compressed air connection		Operational voltage	Operational voltage
	Output		DC	AC 50 Hz
5794400310	Ø 1/4"		12 V	-
5794400320	Ø 1/4"		24 V	-
5794400720	Ø 1/4"		24 V	-
5794405320	Ø 1/4"		-	24 V
5794405370	-		-	110 V
5794405380	-		-	230 V
5794405780	-		-	230 V

Part No.	Operational voltage	Power consumption	Holding power	Holding power
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz

Part No.	Operational voltage	Power consumption	Holding power	Holding power
		DC	AC 50 Hz	AC 60 Hz
5794400310	-	1.6 W	-	-
5794400320	-	1.6 W	-	-
5794400720	-	1.7 W	-	-
5794405320	24 V	-	2.2 VA	1.8 VA
5794405370	110 V	-	3 VA	2.4 VA
5794405380	230 V	-	2.3 VA	2 VA
5794405780	230 V	-	2.5 VA	2.2 VA

Part No.	Switch-on power	Switch-on power	Pilot	Protected against polarity reversal
	AC 50 Hz	AC 60 Hz		
5794400310	-	-	Internal	Protected against polarity reversal
5794400320	-	-	Internal	Protected against polarity reversal
5794400720	-	-	Internal	Protected against polarity reversal
5794405320	3 VA	2.6 VA	Internal	Protected against polarity reversal
5794405370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5794405380	3.2 VA	2.8 VA	Internal	Protected against polarity reversal
5794405780	3.4 VA	3 VA	Internal	Protected against polarity reversal

Part No.		
5794400310	1)	2)
5794400320	1)	2)
5794400720	3)	2)
5794405320	1)	2)
5794405370	1)	-
5794405380	1)	-
5794405780	1)	-

1) Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar, MO = Manual override, Without valve plug connector

2) Without valve plug connector

3) Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar, Without valve plug connector

## 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 .

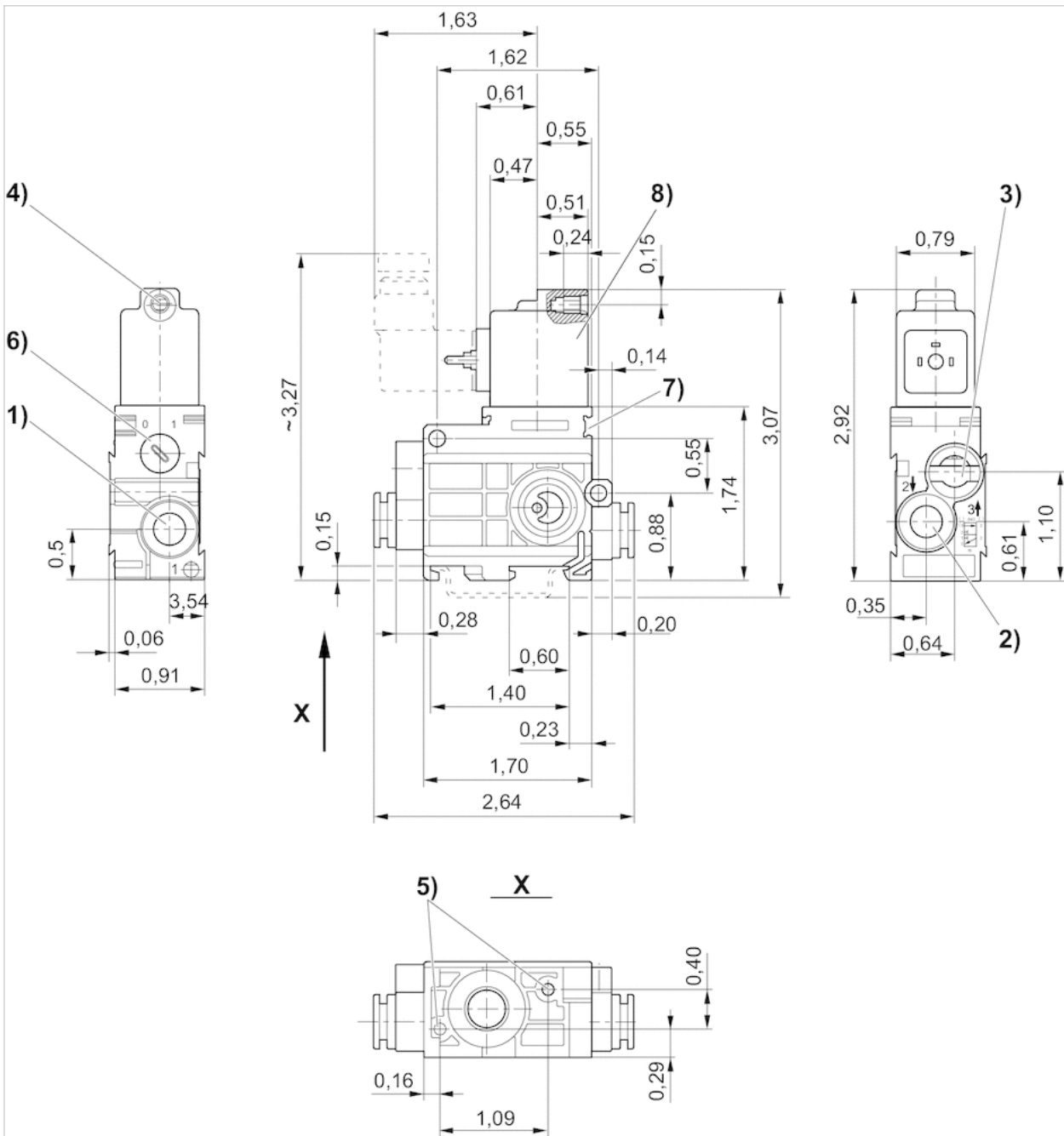
Versions with voltage of less than 50 V DC do not have a protective ground.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

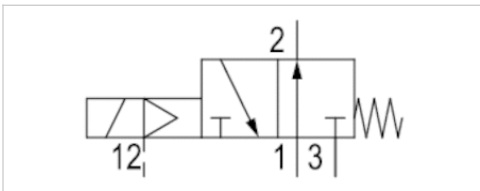
### Dimensions in inches



- 1) Port 1
- 2) Port 2
- 3) Port 3, core Ø for M5
- 4) Manual override
- 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) Pilot valve

# 3/2-directional valve, Series 579

- NO
- Pipe connection
- Compressed air connection output Ø 1/4"



Version	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 <sup>3</sup>
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	18 ms
Weight	0.093 kg

## Technical data

Part No.		Type	Compressed air connection	
			Input	Output
5794420310	NO	single valve	Ø 1/4"	Ø 1/4"
5794420320	NO	single valve	Ø 1/4"	Ø 1/4"
5794420720	NO	single valve	Ø 1/4"	Ø 1/4"
5794425320	NO	single valve	Ø 1/4"	Ø 1/4"
5794425370	NO	single valve	Ø 1/4"	Ø 1/4"
5794425380	NO	single valve	Ø 1/4"	Ø 1/4"
5794425780	NO	single valve	Ø 1/4"	Ø 1/4"

Part No.	Operational voltage		Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5794420310	12 V	-	-
5794420320	24 V	-	-
5794420720	24 V	-	-
5794425320	-	24 V	24 V
5794425370	-	110 V	110 V
5794425380	-	230 V	230 V
5794425780	-	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
5794420310	1.6 W	-	-	-
5794420320	1.6 W	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
5794420720	1.7 W	-	-	-
5794425320	-	2.2 VA	1.8 VA	3 VA
5794425370	-	3 VA	2.4 VA	4.2 VA
5794425380	-	2.3 VA	2 VA	3.2 VA
5794425780	-	2.5 VA	2.2 VA	3.4 VA

Part No.	Switch-on power	Pilot	Protected against polarity reversal
	AC 60 Hz		
5794420310	-	External	Protected against polarity reversal
5794420320	-	External	Protected against polarity reversal
5794420720	-	External	Protected against polarity reversal
5794425320	2.6 VA	External	Protected against polarity reversal
5794425370	3.4 VA	External	Protected against polarity reversal
5794425380	2.8 VA	External	Protected against polarity reversal
5794425780	3 VA	External	Protected against polarity reversal

Without valve plug connector

## 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.

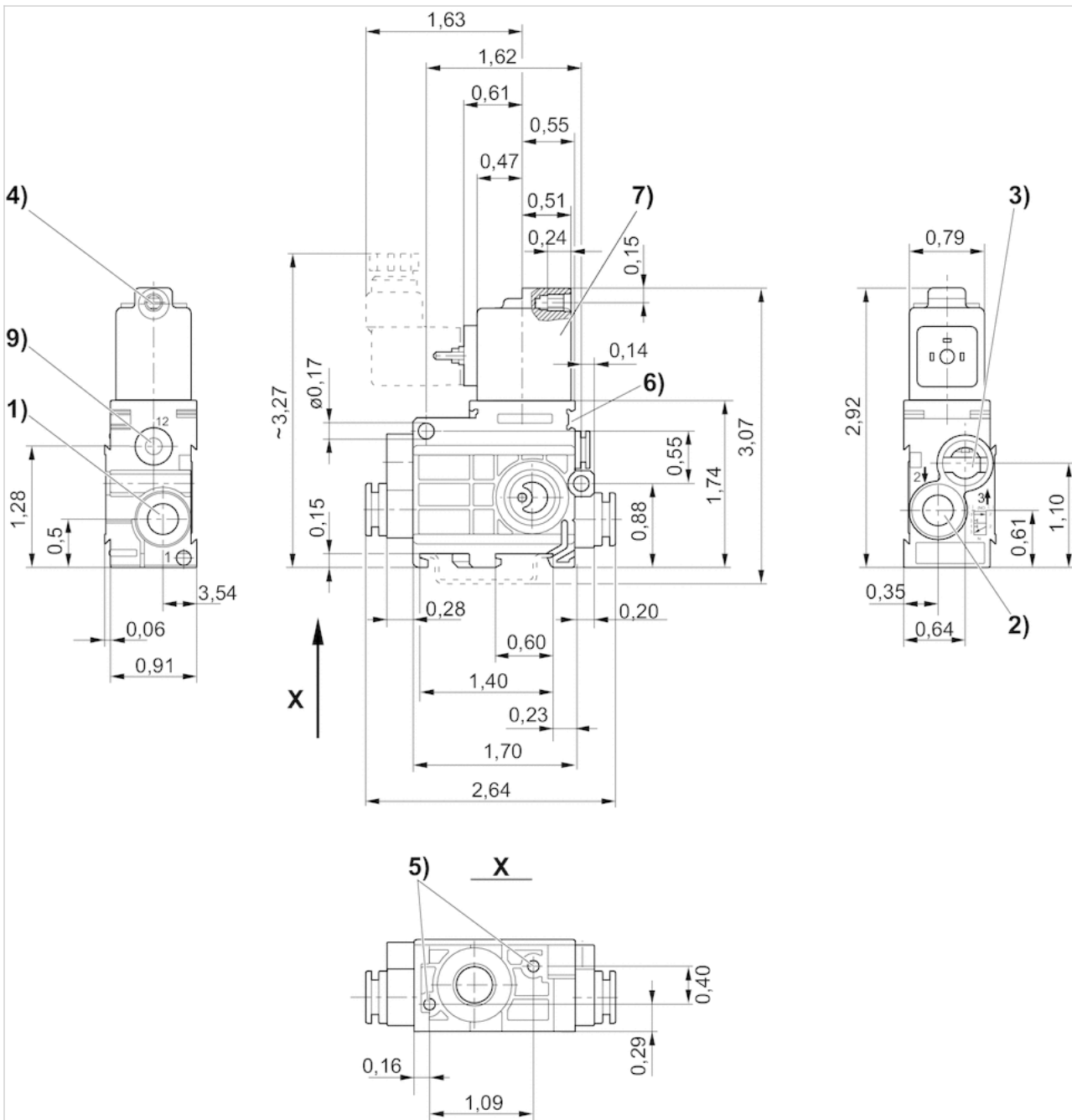
The control pressure must be at least as high as the working pressure.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

# Dimensions

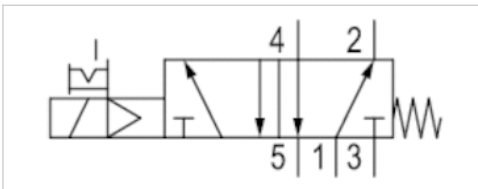
## Dimensions in inches



1) port 1 2) port 2 3) port 3 4) core Ø for M 5 5) pocket hole 6 mm deep for 3.5 self-tapping screw 6) manual override 7) Pilot valve 8) coil can be rotated at 180° intervals








# 5/2-directional valve, Series 579

- Pipe connection
- Compressed air connection output  $\varnothing$  1/4"
- Manual override with detent



Version	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 $\mu$ m
Oil content of compressed air	0 ... 1 mg/m <sup>3</sup>
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	Compressed air connection	
			Input	Output
5794700310		single valve	$\varnothing$ 1/4"	$\varnothing$ 1/4"
5794700320		single valve	$\varnothing$ 1/4"	$\varnothing$ 1/4"
5794700720		single valve	$\varnothing$ 1/4"	$\varnothing$ 1/4"
5794705320		single valve	$\varnothing$ 1/4"	$\varnothing$ 1/4"
5794705370		single valve	$\varnothing$ 1/4"	$\varnothing$ 1/4"
5794705380		single valve	$\varnothing$ 1/4"	$\varnothing$ 1/4"
5794705780		single valve	$\varnothing$ 1/4"	$\varnothing$ 1/4"

Part No.	Compressed air connection	Operational voltage	
		DC	AC 50 Hz
5794700310	$\varnothing$ 1/4"	12 V	-
5794700320	$\varnothing$ 1/4"	24 V	-
5794700720	$\varnothing$ 1/4"	24 V	-
5794705320	$\varnothing$ 1/4"	-	24 V
5794705370	$\varnothing$ 1/4"	-	110 V
5794705380	$\varnothing$ 1/4"	-	230 V
5794705780	$\varnothing$ 1/4"	-	230 V

Part No.	Operational voltage	Power consumption		
		DC	AC 50 Hz	AC 60 Hz
5794700310	AC 60 Hz	1.6 W	-	-



Part No.	Operational voltage	Power consumption	Holding power	Holding power
		DC	AC 50 Hz	AC 60 Hz
5794700320	-	1.6 W	-	-
5794700720	-	1.7 W	-	-
5794705320	24 V	-	2.2 VA	1.8 VA
5794705370	110 V	-	3 VA	2.4 VA
5794705380	230 V	-	2.3 VA	2 VA
5794705780	230 V	-	2.5 VA	2.2 VA

Part No.	Switch-on power	Switch-on power	Pilot	Protected against polarity reversal
	AC 50 Hz	AC 60 Hz		
5794700310	-	-	Internal	Protected against polarity reversal
5794700320	-	-	Internal	Protected against polarity reversal
5794700720	-	-	Internal	Protected against polarity reversal
5794705320	3 VA	2.6 VA	Internal	Protected against polarity reversal
5794705370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5794705380	3.2 VA	2.8 VA	Internal	Protected against polarity reversal
5794705780	3.4 VA	3 VA	Internal	Protected against polarity reversal

Nominal flow Q<sub>n</sub> at 6 bar and Δp = 1 bar, MO = Manual override

## 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.

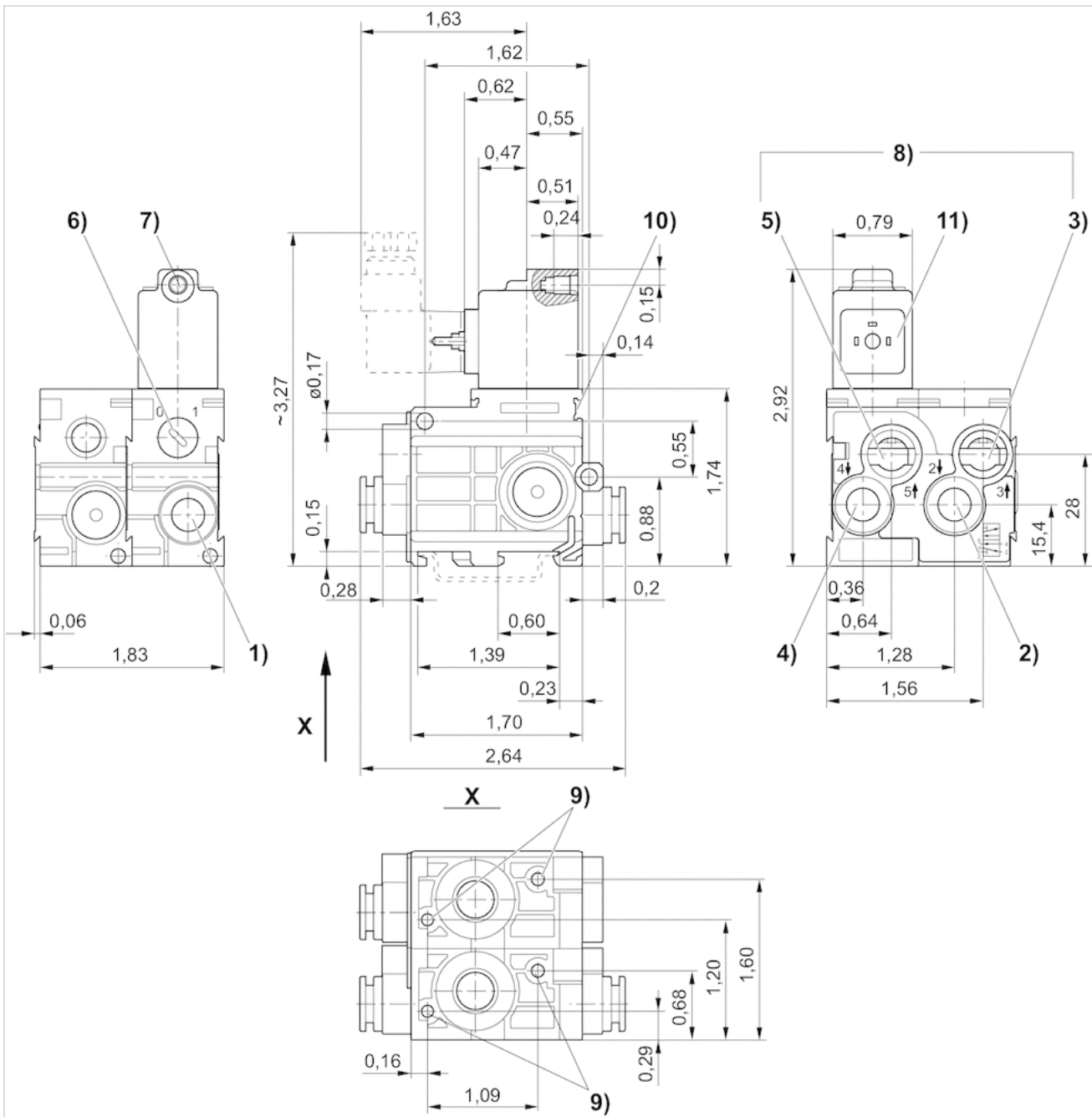
## Technical information

### Material

Housing	Polyamide Polyurethane
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# Dimensions

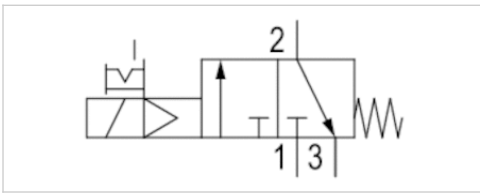
## Dimensions



- 1) port 1
- 2) port 2
- 3) port 3
- 4) port 4
- 5) port 5
- 6) manual override
- 7) core  $\varnothing$  for M 5
- 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








# 3/2-directional valve, Series 579

- NC
- $Q_n = 520$  l/min
- Pipe connection
- Electrical connection Plug, ISO 15217, form C
- Manual override with detent



Version	Poppet valve
Activation	Electrically
Pilot	Internal
Sealing principle	Soft sealing
Working pressure min./max.	-15 ... 50 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 <sup>3</sup>
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	18 ms
Typ. switch-off time	16 ms
Weight	0.093 kg

## Technical data

Part No.	MO		Type	Compressed air connection	
					Input
5794470310		NC	single valve		Ø 1/4"
5794470320		NC	single valve		Ø 1/4"
5794470720		NC	single valve		Ø 1/4"
5794475320		NC	single valve		Ø 1/4"
5794475370		NC	single valve		Ø 1/4"
5794475380		NC	single valve		Ø 1/4"
5794475780		NC	single valve		Ø 1/4"

Part No.	Operational voltage		Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5794470310	12 V	-	-
5794470320	24 V	-	-
5794470720	24 V	-	-
5794475320	-	24 V	24 V
5794475370	-	110 V	110 V
5794475380	-	230 V	230 V
5794475780	-	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
5794470310	1.6 W	-	-	-
5794470320	1.6 W	-	-	-
5794470720	1.7 W	-	-	-
5794475320	-	2.2 VA	1.8 VA	3 VA
5794475370	-	3 VA	2.4 VA	4.2 VA
5794475380	-	2.3 VA	2 VA	3.2 VA
5794475780	-	2.5 VA	2.2 VA	3.4 VA

Part No.	Switch-on power	Pilot	Protected against polarity reversal
	AC 60 Hz		
5794470310	-	Internal	Protected against polarity reversal
5794470320	-	Internal	Protected against polarity reversal
5794470720	-	Internal	Protected against polarity reversal
5794475320	2.6 VA	Internal	Protected against polarity reversal
5794475370	3.4 VA	Internal	Protected against polarity reversal
5794475380	2.8 VA	Internal	Protected against polarity reversal
5794475780	3 VA	Internal	Protected against polarity reversal

Nominal flow  $Q_n$  at 6 bar and  $\Delta p = 1$  bar, MO = Manual override, Without valve plug connector

## 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 .

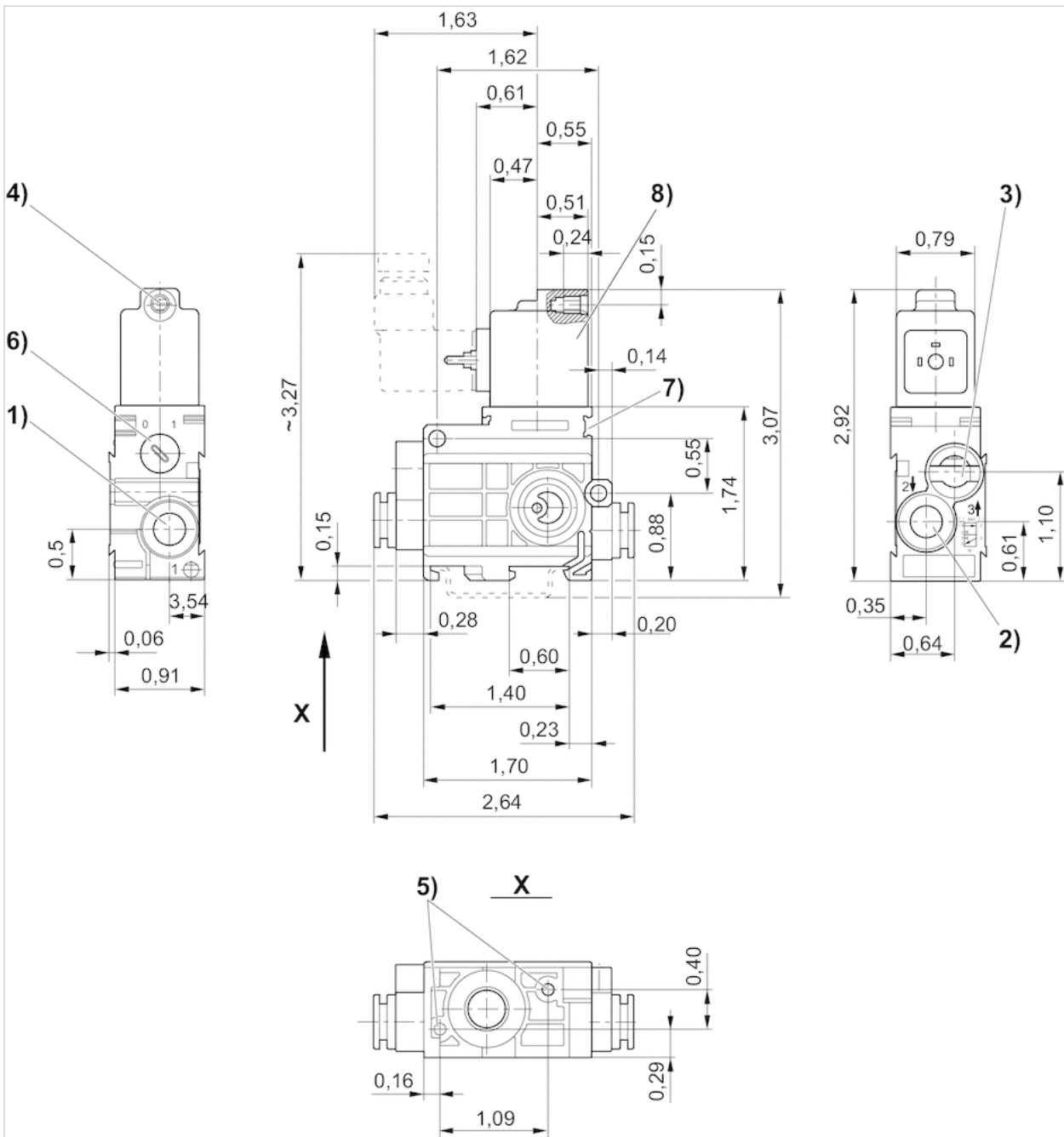
Versions with voltage of less than 50 V DC do not have a protective ground.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

# Dimensions

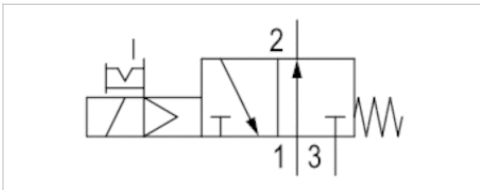
## Dimensions in inches



- 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) Manual override
- 7) Pilot valve
- 8) Coil can be rotated at 180° intervals

# 3/2-directional valve, Series 579

- NO
- Qn = 520 l/min
- Pipe connection
- Compressed air connection output Ø 1/4"
- Electrical connection Plug, ISO 15217, form C
- Manual override with detent



Version	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 <sup>3</sup>
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	Compressed air connection	
			Input	Output
5794410310	NO	single valve	Ø 1/4"	Ø 1/4"
5794410320	NO	single valve	Ø 1/4"	Ø 1/4"
5794410720	NO	single valve	Ø 1/4"	Ø 1/4"
5794415320	NO	single valve	Ø 1/4"	Ø 1/4"
5794415370	NO	single valve	Ø 1/4"	Ø 1/4"
5794415380	NO	single valve	Ø 1/4"	Ø 1/4"
5794415780	NO	single valve	Ø 1/4"	Ø 1/4"

Part No.	Operational voltage		Operational voltage
	DC	AC 50 Hz	AC 60 Hz
5794410310	12 V	-	-
5794410320	24 V	-	-
5794410720	24 V	-	-
5794415320	-	24 V	24 V
5794415370	-	110 V	110 V
5794415380	-	230 V	230 V
5794415780	-	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
5794410310	1.6 W	-	-	-
5794410320	1.6 W	-	-	-
5794410720	1.7 W	-	-	-
5794415320	-	2.2 VA	1.8 VA	3 VA
5794415370	-	3 VA	2.4 VA	4.2 VA
5794415380	-	2.3 VA	2 VA	3.2 VA
5794415780	-	2.5 VA	2.2 VA	3.4 VA

Part No.	Switch-on power	Pilot	Protected against polarity reversal
	AC 60 Hz		
5794410310	-	Internal	Protected against polarity reversal
5794410320	-	Internal	Protected against polarity reversal
5794410720	-	Internal	Protected against polarity reversal
5794415320	2.6 VA	Internal	Protected against polarity reversal
5794415370	3.4 VA	Internal	Protected against polarity reversal
5794415380	2.8 VA	Internal	Protected against polarity reversal
5794415780	3 VA	Internal	Protected against polarity reversal

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

## 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.

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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.

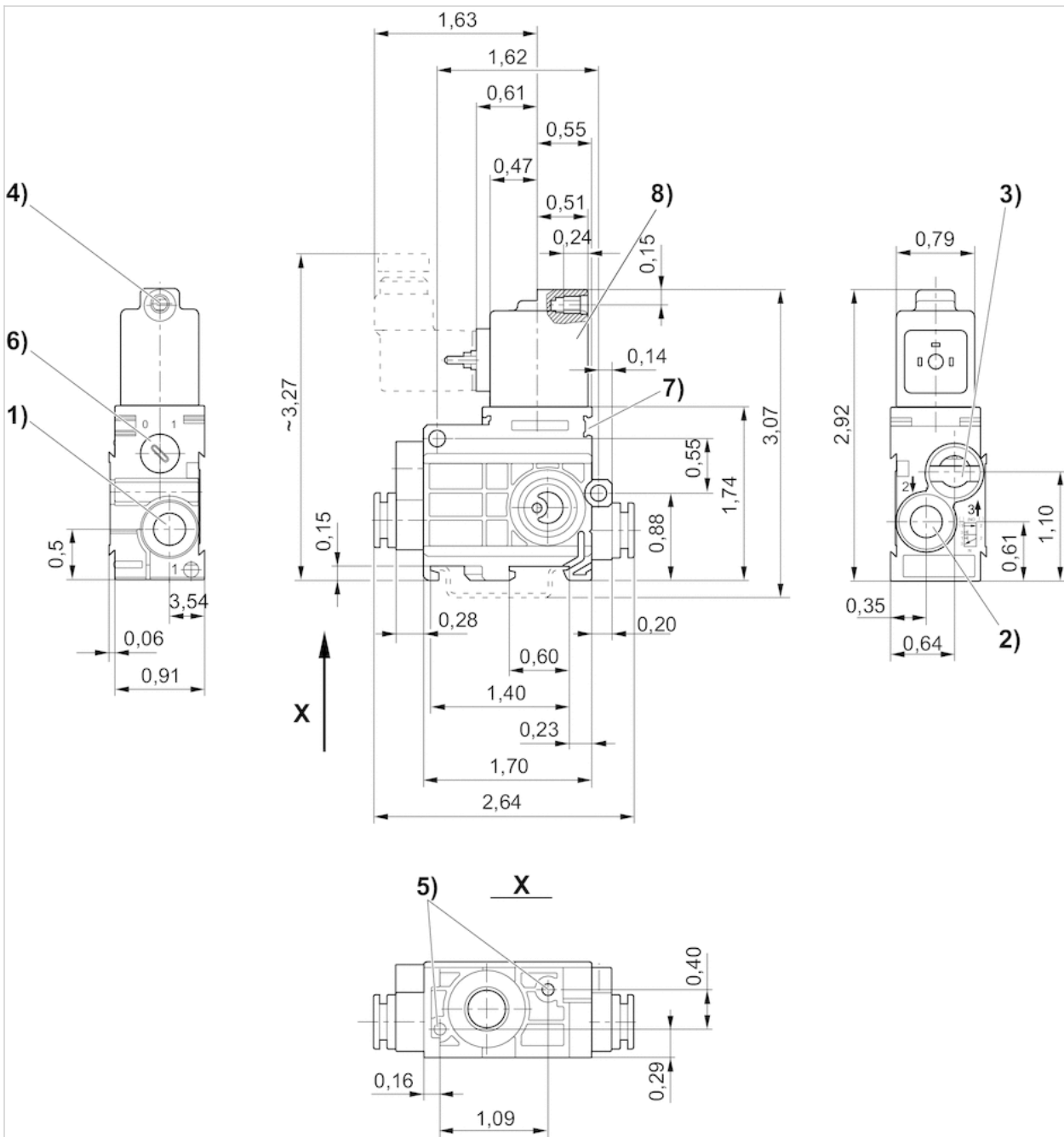
Without valve plug connector

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

# Dimensions

## Dimensions in inches

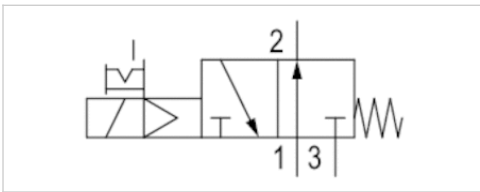


- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core Ø for M5
- 5) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 6) Manual override
- 7) Pilot valve
- 8) Coil can be rotated at 180° intervals




















# 3/2-directional valve, Series 579

- NO
- Qn = 520 l/min
- Pipe connection
- Manual override with detent



Version	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
Max. particle size	5 µm
Oil content of compressed air	0 ... 1 mg/m <sup>3</sup>
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.	MO		Type
5790410310		NO	Inlet valve
5790510310		NO	Inlet valve
5791510310		NO	Stacking valve
5796410310		NO	Stacking valve, additional pressure connection
5796510310		NO	Stacking valve, additional pressure connection
5792510310		NO	End valve
5796410320		NO	Stacking valve, additional pressure connection
5790510320		NO	Inlet valve
5791510320		NO	Stacking valve
5796510320		NO	Stacking valve, additional pressure connection
5792510320		NO	End valve
5790410720		NO	Inlet valve
5790510720		NO	Inlet valve
5791510720		NO	Stacking valve
5796410720		NO	Stacking valve, additional pressure connection
5796510720		NO	Stacking valve, additional pressure connection
5792510720		NO	End valve

Part No.	Operational voltage	Power consumption	Pilot
		DC	
5790410310	12 V	1.6 W	Internal

Part No.	Operational voltage	Power consumption	Pilot
		DC	
5790510310	12 V	1.6 W	Internal
5791510310	12 V	1.6 W	Internal
5796410310	12 V	1.6 W	Internal
5796510310	12 V	1.6 W	Internal
5792510310	12 V	1.6 W	Internal
5796410320	24 V	-	Internal
5790510320	24 V	-	Internal
5791510320	24 V	-	Internal
5796510320	24 V	-	Internal
5792510320	24 V	-	Internal
5790410720	24 V	-	Internal
5790510720	24 V	-	Internal
5791510720	24 V	-	Internal
5796410720	24 V	-	Internal
5796510720	24 V	-	Internal
5792510720	24 V	-	Internal

Part No.	Protected against polarity reversal	
5790410310	Protected against polarity reversal	1)
5790510310	Protected against polarity reversal	-
5791510310	Protected against polarity reversal	-
5796410310	Protected against polarity reversal	-
5796510310	Protected against polarity reversal	-
5792510310	Protected against polarity reversal	-
5796410320	Protected against polarity reversal	-
5790510320	Protected against polarity reversal	-
5791510320	Protected against polarity reversal	-
5796510320	Protected against polarity reversal	-
5792510320	Protected against polarity reversal	-
5790410720	Protected against polarity reversal	-
5790510720	Protected against polarity reversal	-
5791510720	Protected against polarity reversal	-
5796410720	Protected against polarity reversal	-
5796510720	Protected against polarity reversal	-
5792510720	Protected against polarity reversal	-

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

1) Without valve plug connector

## 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).

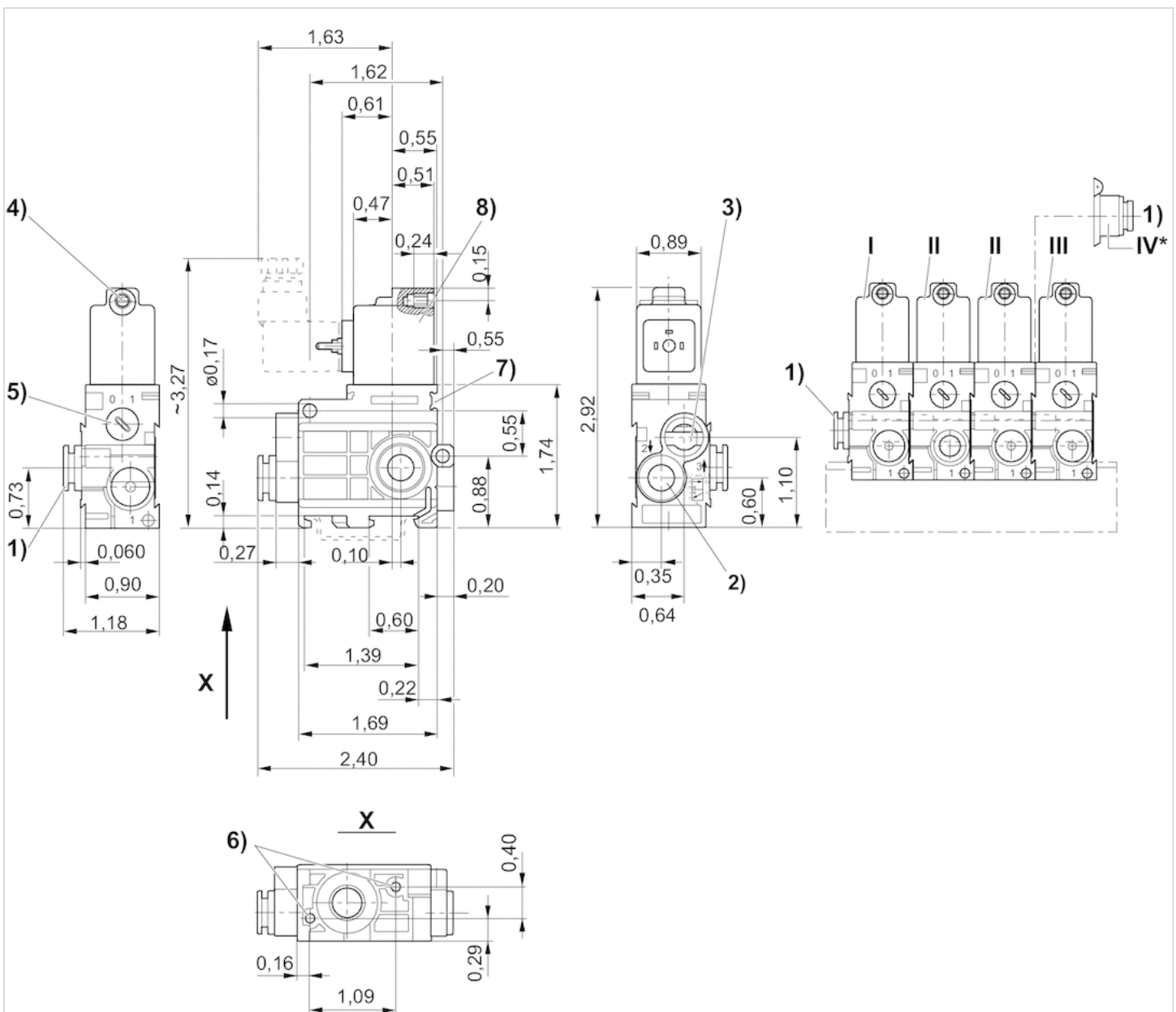
At an ambient temperature of 40 °C the max. working pressure is 10 bar .  
 Versions with voltage of less than 50 V DC do not have a protective ground.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions in inches



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

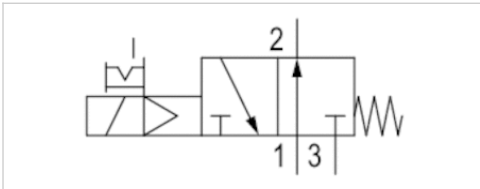
- 5) Manual override
- 6) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 7) Mounting space for name plate
- 8) Coil can be rotated at 180° intervals

\* 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









# 3/2-directional valve, Series 579

- NO
- Compressed air connection output  $\varnothing$  1/4" 5/16"
- Manual override with detent



Version	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 $\mu$ m
Oil content of compressed air	0 ... 1 mg/m <sup>3</sup>
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.	MO		Type
5790415320		NO	Inlet valve
5790515320		NO	Inlet valve
5791515320		NO	Stacking valve
5796415320		NO	Stacking valve, additional pressure connection
5796515320		NO	Stacking valve, additional pressure connection
5792515320		NO	End valve
5790415370		NO	Inlet valve
5790515370		NO	-
5791515370		NO	Stacking valve
5796415370		NO	Stacking valve, additional pressure connection
5796515370		NO	Stacking valve, additional pressure connection
5792515370		NO	End valve

Part No.	Compressed air connection	
	Input	Output
5790415320	$\varnothing$ 1/4"	$\varnothing$ 1/4"
5790515320	$\varnothing$ 1/4"	5/16"
5791515320	-	$\varnothing$ 1/4"
5796415320	$\varnothing$ 1/4"	$\varnothing$ 1/4"
5796515320	$\varnothing$ 1/4"	5/16"
5792515320	-	$\varnothing$ 1/4"
5790415370	$\varnothing$ 1/4"	$\varnothing$ 1/4"

Part No.	Compressed air connection	
	Input	Output
5790515370	5/16"	Ø 1/4"
5791515370	-	Ø 1/4"
5796415370	Ø 1/4"	Ø 1/4"
5796515370	5/16"	Ø 1/4"
5792515370	-	Ø 1/4"

Part No.	Operational voltage		Holding power	
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
5790415320	24 V	24 V	2.2 VA	1.8 VA
5790515320	24 V	24 V	2.2 VA	1.8 VA
5791515320	24 V	24 V	2.2 VA	1.8 VA
5796415320	24 V	24 V	2.2 VA	1.8 VA
5796515320	24 V	24 V	2.2 VA	1.8 VA
5792515320	24 V	24 V	2.2 VA	1.8 VA
5790415370	110 V	110 V	3 VA	2.4 VA
5790515370	110 V	110 V	3 VA	2.4 VA
5791515370	110 V	110 V	3 VA	2.4 VA
5796415370	110 V	110 V	3 VA	2.4 VA
5796515370	110 V	110 V	3 VA	2.4 VA
5792515370	110 V	110 V	3 VA	2.4 VA

Part No.	Switch-on power		Pilot	Protected against polarity reversal
	AC 50 Hz	AC 60 Hz		
5790415320	3 VA	2.6 VA	Internal	Protected against polarity reversal
5790515320	3 VA	2.6 VA	Internal	Protected against polarity reversal
5791515320	3 VA	2.6 VA	Internal	Protected against polarity reversal
5796415320	3 VA	2.6 VA	Internal	Protected against polarity reversal
5796515320	3 VA	2.6 VA	Internal	Protected against polarity reversal
5792515320	3 VA	2.6 VA	Internal	Protected against polarity reversal
5790415370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5790515370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5791515370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5796415370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5796515370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5792515370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal

Nominal flow Q<sub>n</sub> at 6 bar and Δp = 1 bar ., MO = Manual override

Without valve plug connector

## 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.

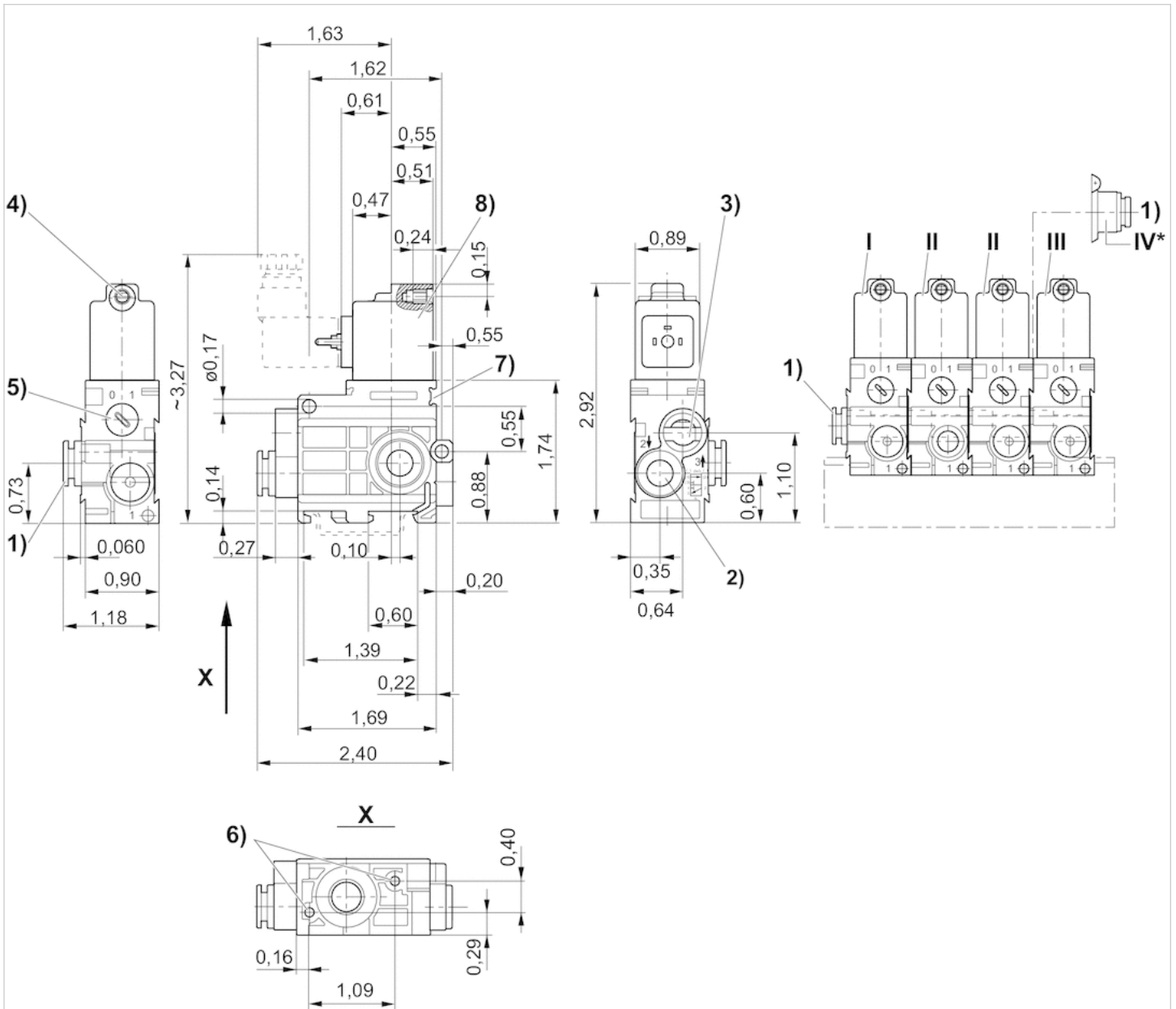
## Technical information

### Material

Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions in inches



- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core  $\phi$  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

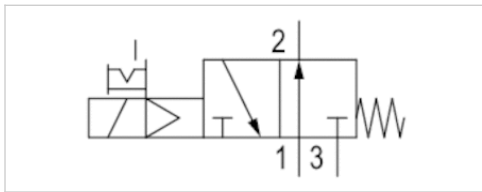
\* Air conn. module (item IV) mounted onto stacking valve (item II) permits additional air supply from right hand side. End valve (item III) not required.

I = Inlet valve, II = Stacking valve, III = End valve














# 3/2-directional valve, Series 579

- NO
- Pipe connection
- Compressed air connection output Ø 1/4"
- Manual override with detent



Version	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 <sup>3</sup>
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.	MO		Type
5790415380		NO	Inlet valve
5790515380		NO	Inlet valve
5791515380		NO	Stacking valve
5796415380		NO	Stacking valve, additional pressure connection
5796515380		NO	Stacking valve, additional pressure connection
5790415780		NO	Inlet valve
5790515780		NO	Inlet valve
5791515780		NO	Stacking valve
5796415780		NO	Stacking valve, additional pressure connection
5792515380		NO	Stacking valve, additional pressure connection
5796515780		NO	End valve

Part No.	Compressed air connection	
	Input	Output
5790415380	Ø 1/4"	Ø 1/4"
5790515380	Ø 1/4"	Ø 1/4"
5791515380	Ø 1/4"	Ø 1/4"
5796415380	Ø 1/4"	Ø 1/4"
5796515380	Ø 1/4"	Ø 1/4"
5790415780	Ø 1/4"	Ø 1/4"
5790515780	Ø 1/4"	Ø 1/4"

Part No.	Compressed air connection	
	Input	Output
5791515780	Ø 1/4"	Ø 1/4"
5796415780	Ø 1/4"	Ø 1/4"
5792515380	Ø 1/4"	Ø 1/4"
5796515780	Ø 1/4"	Ø 1/4"

Part No.	Operational voltage	Operational voltage	Holding power	Holding power
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
5790415380	230 V	230 V	2.3 VA	2 VA
5790515380	230 V	230 V	2.3 VA	2 VA
5791515380	230 V	230 V	2.3 VA	2 VA
5796415380	230 V	230 V	2.3 VA	2 VA
5796515380	230 V	230 V	2.3 VA	2 VA
5790415780	230 V	230 V	2.5 VA	2.2 VA
5790515780	230 V	230 V	2.5 VA	2.2 VA
5791515780	230 V	230 V	2.5 VA	2.2 VA
5796415780	230 V	230 V	2.5 VA	2.2 VA
5792515380	230 V	230 V	2.5 VA	2.2 VA
5796515780	230 V	230 V	2.5 VA	2.2 VA

Part No.	Switch-on power	Switch-on power	Pilot	Protected against polarity reversal
	AC 50 Hz	AC 60 Hz		
5790415380	3.2 VA	2.8 VA	Internal	Protected against polarity reversal
5790515380	3.2 VA	2.8 VA	Internal	Protected against polarity reversal
5791515380	3.2 VA	2.8 VA	Internal	Protected against polarity reversal
5796415380	3.2 VA	2.8 VA	Internal	Protected against polarity reversal
5796515380	3.2 VA	2.8 VA	Internal	Protected against polarity reversal
5790415780	3.4 VA	3 VA	Internal	Protected against polarity reversal
5790515780	3.4 VA	3 VA	Internal	Protected against polarity reversal
5791515780	3.4 VA	3 VA	Internal	Protected against polarity reversal
5796415780	3.4 VA	3 VA	Internal	Protected against polarity reversal
5792515380	3.4 VA	3 VA	Internal	Protected against polarity reversal
5796515780	3.4 VA	3 VA	Internal	Protected against polarity reversal

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

Without valve plug connector

## 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.

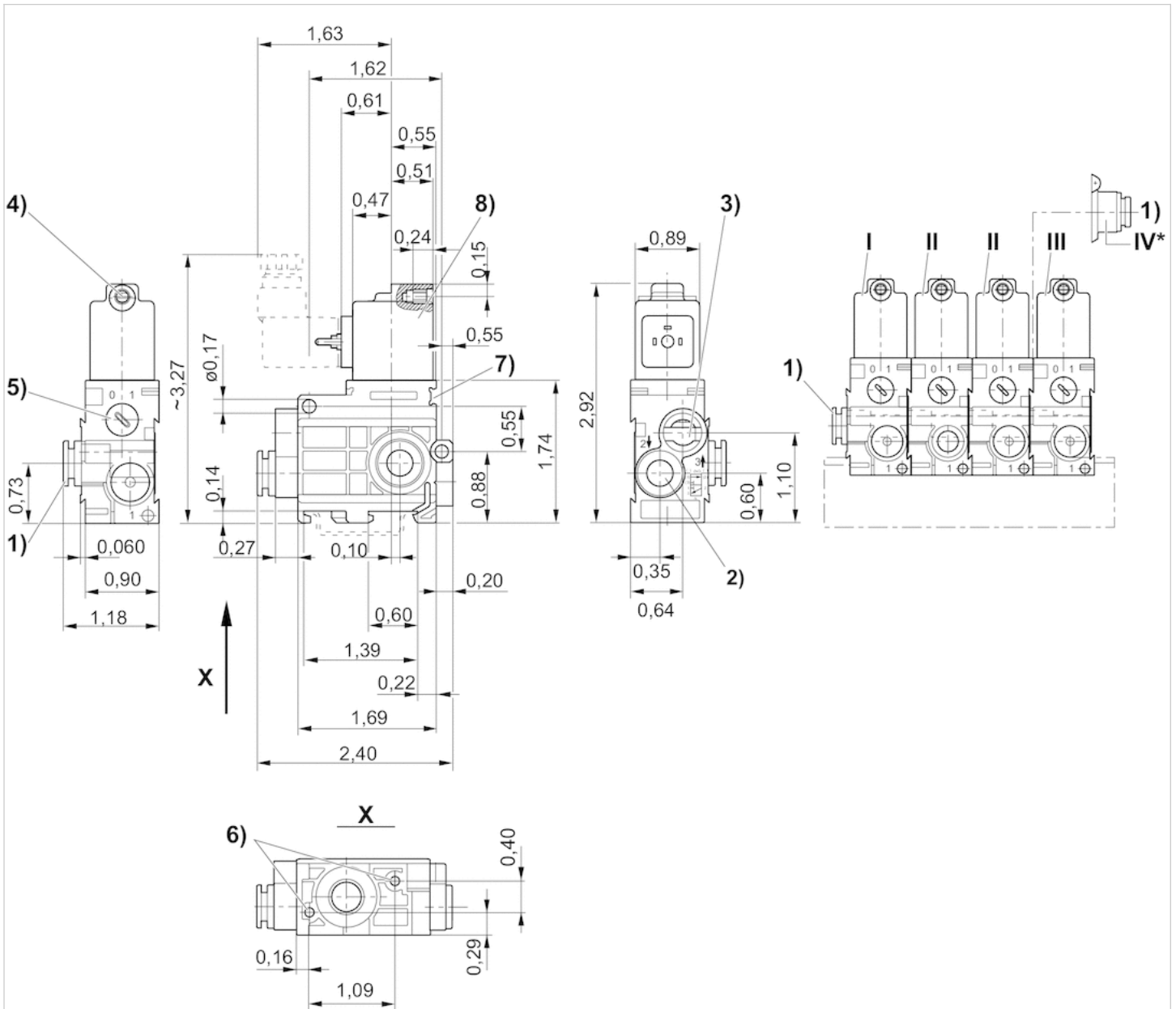
## Technical information

### Material

Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions in inches



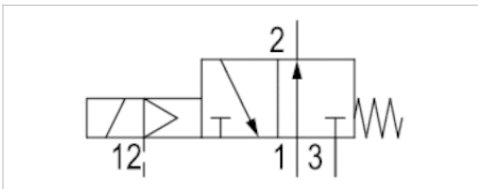
- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core Ø for M5
- 5) Manual override
- 6) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 7) Mounting space for name plate
- 8) Coil can be rotated at 180° intervals

\* 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

# 3/2-directional valve, Series 579

- NO
- Compressed air connection output  $\varnothing$  1/4"
- Manual override with detent



Version	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 $\mu$ m
Oil content of compressed air	0 ... 1 mg/m <sup>3</sup>
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	
5790425320	NO	Inlet valve	$\varnothing$ 1/4"	
5790525320	NO	Inlet valve	$\varnothing$ 1/4"	
5791525320	NO	Stacking valve	$\varnothing$ 1/4"	
5796425320	NO	Stacking valve, additional pressure connection	$\varnothing$ 1/4"	
5796525320	NO	Stacking valve, additional pressure connection	$\varnothing$ 1/4"	
5792525320	NO	End valve	$\varnothing$ 1/4"	
5790425370	NO	Inlet valve	$\varnothing$ 1/4"	
5790525370	NO	Inlet valve	5/16"	
5791525370	NO	Stacking valve	-	
5796425370	NO	Stacking valve, additional pressure connection	$\varnothing$ 1/4"	
5796525370	NO	Stacking valve, additional pressure connection	5/16"	
5792525370	NO	End valve	-	

Part No.	Compressed air connection	
	Output	Pilot connection
5790425320	$\varnothing$ 1/4"	-
5790525320	$\varnothing$ 1/4"	-
5791525320	$\varnothing$ 1/4"	-
5796425320	$\varnothing$ 1/4"	-
5796525320	$\varnothing$ 1/4"	-
5792525320	$\varnothing$ 1/4"	-
5790425370	$\varnothing$ 1/4"	5/32"

Part No.	Compressed air connection	
	Output	Pilot connection
5790525370	Ø 1/4"	5/32"
5791525370	Ø 1/4"	5/32"
5796425370	Ø 1/4"	5/32"
5796525370	Ø 1/4"	5/32"
5792525370	Ø 1/4"	5/32"

Part No.	Compressed air connection		Operational voltage	Operational voltage
	Pilot control exhaust		DC	AC 50 Hz
5790425320	5/32"		24 V	-
5790525320	5/32"		24 V	-
5791525320	5/32"		24 V	-
5796425320	5/32"		24 V	-
5796525320	5/32"		24 V	-
5792525320	5/32"		24 V	-
5790425370	-		-	110 V
5790525370	-		-	110 V
5791525370	-		-	110 V
5796425370	-		-	110 V
5796525370	-		-	110 V
5792525370	-		-	110 V

Part No.	Operational voltage	Power consumption	Holding power	Holding power
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5790425320	-	1.6 W	-	-
5790525320	-	1.6 W	-	-
5791525320	-	1.6 W	-	-
5796425320	-	1.6 W	-	-
5796525320	-	1.6 W	-	-
5792525320	-	1.6 W	-	-
5790425370	110 V	-	3 VA	2.4 VA
5790525370	110 V	-	3 VA	2.4 VA
5791525370	110 V	-	3 VA	2.4 VA
5796425370	110 V	-	3 VA	2.4 VA
5796525370	110 V	-	3 VA	2.4 VA
5792525370	110 V	-	3 VA	2.4 VA

Part No.	Switch-on power	Switch-on power	Pilot	Protected against polarity reversal
	AC 50 Hz	AC 60 Hz		
5790425320	-	-	Internal	Protected against polarity reversal
5790525320	-	-	Internal	Protected against polarity reversal
5791525320	-	-	Internal	Protected against polarity reversal
5796425320	-	-	Internal	Protected against polarity reversal
5796525320	-	-	Internal	Protected against polarity reversal
5792525320	-	-	Internal	Protected against polarity reversal
5790425370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5790525370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5791525370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5796425370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal

Part No.	Switch-on power	Switch-on power	Pilot	Protected against polarity reversal
	AC 50 Hz	AC 60 Hz		
5796525370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5792525370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal

Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar, MO = Manual override, Without valve plug connector

## 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 .

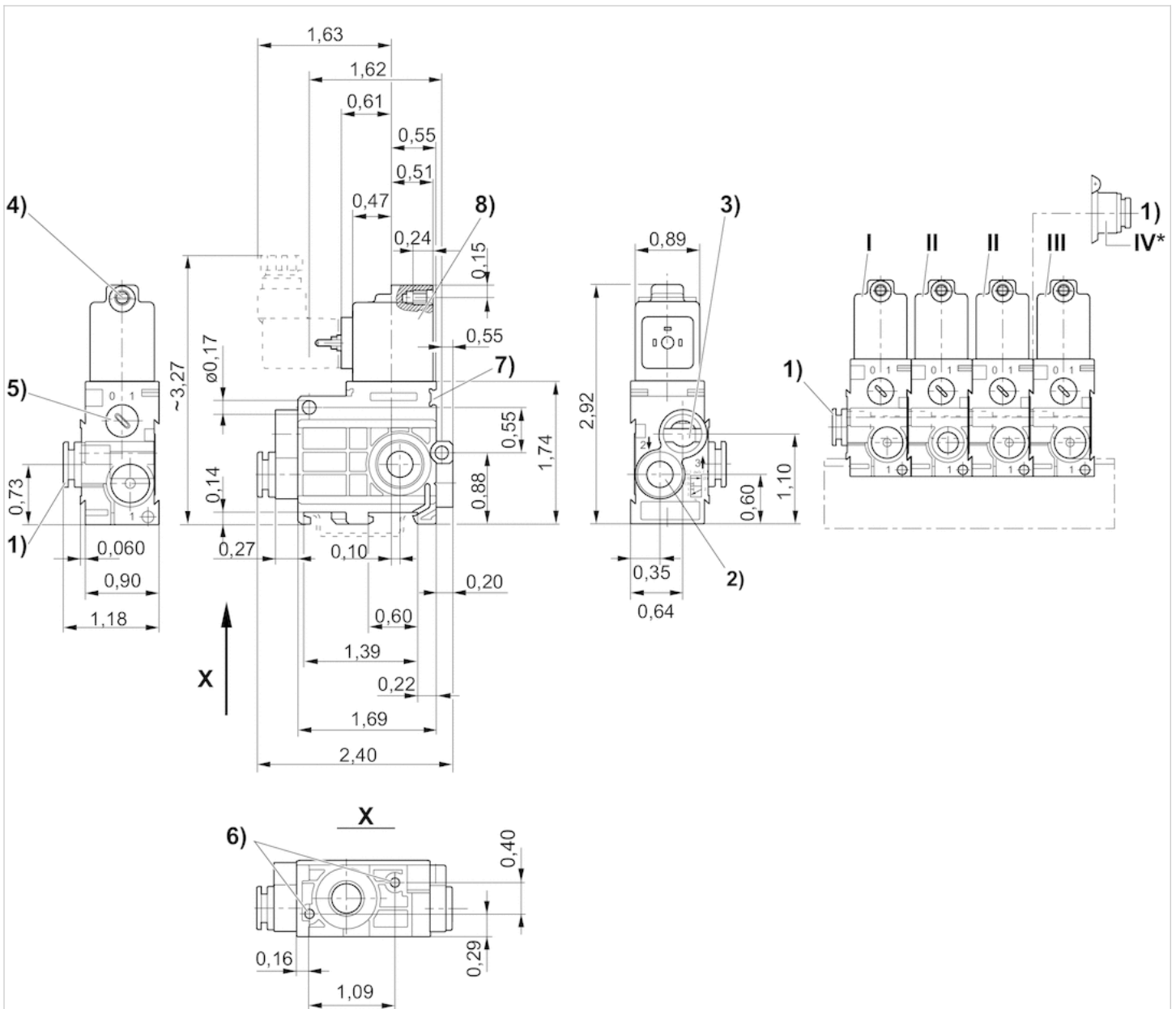
Versions with voltage of less than 50 V DC do not have a protective ground.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions in inches



- 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




















# 3/2-directional valve, Series 579

- NO
- Pipe connection
- Compressed air connection output Ø 1/4" 5/16"



Version	Poppet valve
Activation	Electrically
Pilot	External
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 <sup>3</sup>
Protection class with connection	IP65
Duty cycle	100 %
Weight	0.093 kg

## Technical data

Part No.			Type
5790420310		NO	Inlet valve
5790520310		NO	Inlet valve
5791520310		NO	Stacking valve
5796420310		NO	Stacking valve, additional pressure connection
5796520310		NO	Stacking valve, additional pressure connection
5792520310		NO	End valve
5790420320		NO	Inlet valve
5790520320		NO	Inlet valve
5791520320		NO	Stacking valve
5796420320		NO	Stacking valve, additional pressure connection
5796520320	—	NO	Stacking valve, additional pressure connection
5792520320		NO	End valve
5790420720		NO	Inlet valve
5790520720		NO	Inlet valve
5791520720		NO	Stacking valve
5796420720		NO	Stacking valve, additional pressure connection
5796520720		NO	Stacking valve, additional pressure connection
5792520720		NO	End valve

Part No.	Compressed air connection	
	Input	Output
5790420310	Ø 1/4"	Ø 1/4"
5790520310	Ø 1/4"	5/16"
5791520310	-	Ø 1/4"
5796420310	Ø 1/4"	Ø 1/4"
5796520310	5/16"	Ø 1/4"
5792520310	-	Ø 1/4"

Part No.	Compressed air connection	
	Input	Output
5790420320	Ø 1/4"	Ø 1/4"
5790520320	5/16"	Ø 1/4"
5791520320	-	Ø 1/4"
5796420320	Ø 1/4"	Ø 1/4"
5796520320	5/16"	Ø 1/4"
5792520320	-	Ø 1/4"
5790420720	Ø 1/4"	Ø 1/4"
5790520720	5/16"	Ø 1/4"
5791520720	-	Ø 1/4"
5796420720	Ø 1/4"	Ø 1/4"
5796520720	5/16"	Ø 1/4"
5792520720	-	Ø 1/4"

Part No.	Compressed air connection		Operational voltage	Power consumption
		Pilot connection		
5790420310	5/32"	5/32"	12 V	1.6 W
5790520310	5/32"	5/32"	12 V	1.6 W
5791520310	5/32"	5/32"	12 V	1.6 W
5796420310	5/32"	5/32"	12 V	1.6 W
5796520310	5/32"	5/32"	12 V	1.6 W
5792520310	5/32"	5/32"	12 V	1.6 W
5790420320	5/32"	5/32"	24 V	1.6 W
5790520320	5/32"	5/32"	24 V	1.6 W
5791520320	5/32"	5/32"	24 V	1.6 W
5796420320	5/32"	5/32"	24 V	1.6 W
5796520320	5/32"	5/32"	24 V	1.6 W
5792520320	5/32"	5/32"	24 V	1.6 W
5790420720	5/32"	5/32"	24 V	1.7 W
5790520720	5/32"	5/32"	24 V	1.7 W
5791520720	5/32"	5/32"	24 V	1.7 W
5796420720	5/32"	5/32"	24 V	1.7 W
5796520720	5/32"	5/32"	24 V	1.7 W
5792520720	5/32"	5/32"	24 V	1.7 W

Part No.	Pilot
5790420310	External
5790520310	External
5791520310	External
5796420310	External
5796520310	External
5792520310	External
5790420320	External
5790520320	External
5791520320	External
5796420320	External
5796520320	External
5792520320	External

Part No.	Pilot
5790420720	External
5790520720	External
5791520720	External
5796420720	External
5796520720	External
5792520720	External

## 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.

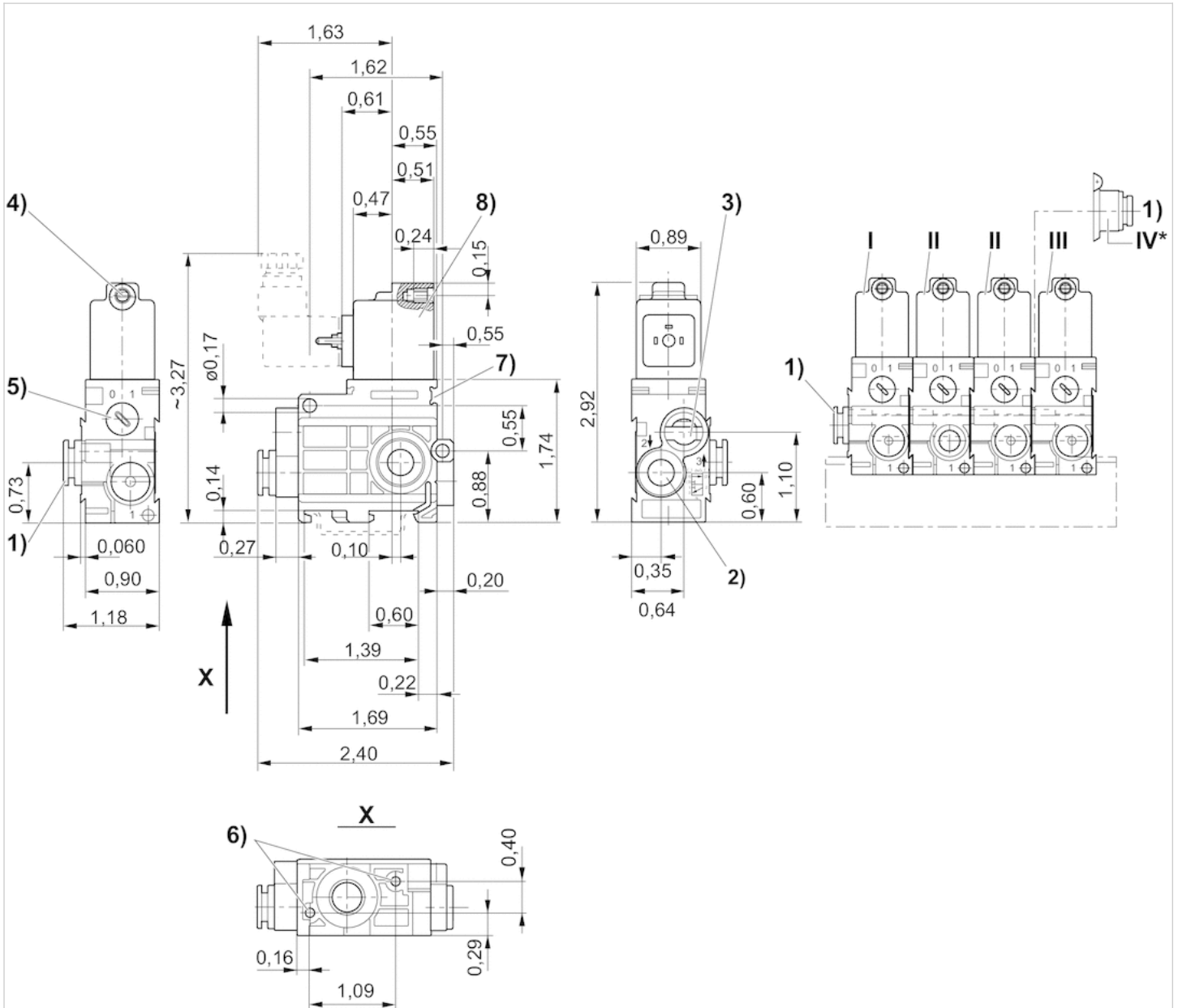
The control pressure must be at least as high as the working pressure.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions in inches



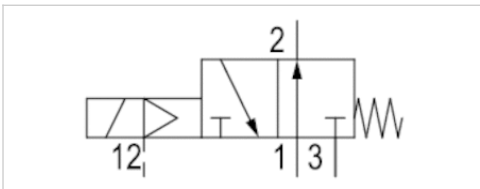
- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core Ø for M5
- 5) Manual override
- 6) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 7) Mounting space for name plate
- 8) Coil can be rotated at 180° intervals

\* 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

# 3/2-directional valve, Series 579

- NO
- Pipe connection
- Compressed air connection output Ø 1/4"



Version	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 <sup>3</sup>
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	
5790425380	NO	Inlet valve	Ø 1/4"	
5790525380	NO	Inlet valve	5/16"	
5791525380	NO	Stacking valve	-	
5796425380	NO	Stacking valve, additional pressure connection	Ø 1/4"	
5796525380	NO	Stacking valve, additional pressure connection	5/16"	
5792525380	NO	End valve	-	
5790425780	NO	Inlet valve	Ø 1/4"	
5790525780	NO	Inlet valve	5/16"	
-	NO	Stacking valve	-	
5796425780	NO	Stacking valve, additional pressure connection	Ø 1/4"	
5796525780	NO	Stacking valve, additional pressure connection	5/16"	
5792525780	NO	End valve	-	

Part No.	Compressed air connection	
	Output	Pilot connection
5790425380	Ø 1/4"	5/32"
5790525380	Ø 1/4"	5/32"
5791525380	Ø 1/4"	5/32"
5796425380	Ø 1/4"	5/32"
5796525380	Ø 1/4"	5/32"
5792525380	Ø 1/4"	5/32"
5790425780	Ø 1/4"	5/32"

Part No.	Compressed air connection	
	Output	Pilot connection
5790525780	Ø 1/4"	5/32"
-	Ø 1/4"	5/32"
5796425780	Ø 1/4"	5/32"
5796525780	Ø 1/4"	5/32"
5792525780	Ø 1/4"	5/32"

Part No.	Operational voltage		Holding power	
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
5790425380	230 V	230 V	2.3 VA	2 VA
5790525380	230 V	230 V	2.3 VA	2 VA
5791525380	230 V	230 V	2.3 VA	2 VA
5796425380	230 V	230 V	2.3 VA	2 VA
5796525380	230 V	230 V	2.3 VA	2 VA
5792525380	230 V	230 V	2.3 VA	2 VA
5790425780	230 V	230 V	2.5 VA	2.2 VA
5790525780	230 V	230 V	2.5 VA	2.2 VA
-	230 V	230 V	2.5 VA	2.2 VA
5796425780	230 V	230 V	2.5 VA	2.2 VA
5796525780	230 V	230 V	2.5 VA	2.2 VA
5792525780	230 V	230 V	2.5 VA	2.2 VA

Part No.	Switch-on power		Pilot	Protected against polarity reversal
	AC 50 Hz	AC 60 Hz		
5790425380	3.2 VA	2.8 VA	External	Protected against polarity reversal
5790525380	3.2 VA	2.8 VA	External	Protected against polarity reversal
5791525380	3.2 VA	2.8 VA	External	Protected against polarity reversal
5796425380	3.2 VA	2.8 VA	External	Protected against polarity reversal
5796525380	3.2 VA	2.8 VA	External	Protected against polarity reversal
5792525380	3.2 VA	2.8 VA	External	Protected against polarity reversal
5790425780	3.4 VA	3 VA	External	Protected against polarity reversal
5790525780	3.4 VA	3 VA	External	Protected against polarity reversal
-	3.4 VA	3 VA	External	Protected against polarity reversal
5796425780	3.4 VA	3 VA	External	Protected against polarity reversal
5796525780	3.4 VA	3 VA	External	Protected against polarity reversal
5792525780	3.4 VA	3 VA	External	Protected against polarity reversal

Nominal flow Q<sub>n</sub> at 6 bar and Δp = 1 bar, MO = Manual override, Without valve plug connector

## 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.

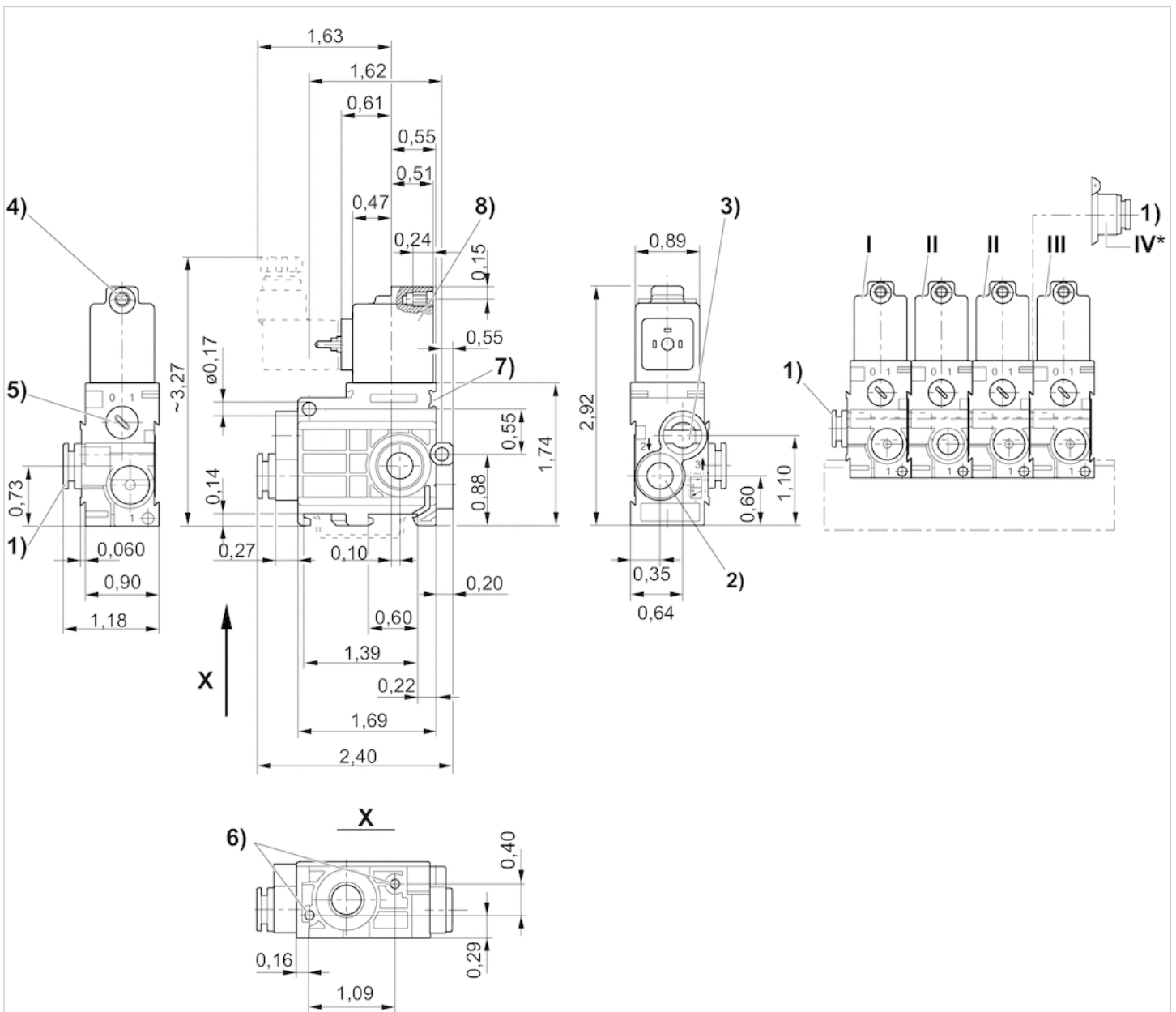
## Technical information

### Material

Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions in inches



- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core  $\varnothing$  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

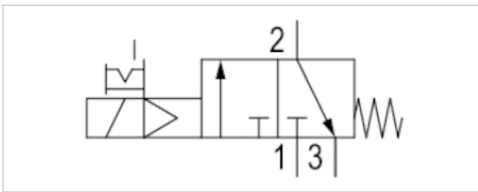
\* Air conn. module (item IV) mounted onto stacking valve (item II) permits additional air supply from right hand side. End valve (item III) not required.

I = Inlet valve, II = Stacking valve, III = End valve






# 3/2-directional valve, Series 579

- NC
- Pipe connection
- Compressed air connection output Ø 1/4"
- Manual override with detent



Version	Poppet valve
Activation	Electrically
Pilot	Internal
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 <sup>3</sup>
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.	MO		Type
5790405320		NC	Inlet valve
5790505320		-	Inlet valve
5791505320		NC	Stacking valve
5796405320		NC	Stacking valve, additional pressure connection
5796505320		NC	Stacking valve, additional pressure connection
5792505320		NC	End valve
5790405370		NC	Inlet valve
5790505370		NC	Inlet valve
5791505370		NC	Stacking valve
5796405370		NC	Stacking valve, additional pressure connection
5796505370		NC	Stacking valve, additional pressure connection
5792505370		NC	End valve

Part No.	Compressed air connection	
	Input	Output
5790405320	Ø 1/4"	Ø 1/4"
5790505320	5/16"	Ø 1/4"
5791505320	-	Ø 1/4"
5796405320	Ø 1/4"	Ø 1/4"
5796505320	5/16"	Ø 1/4"
5792505320	-	Ø 1/4"

Part No.	Compressed air connection	
	Input	Output
5790405370	Ø 1/4"	Ø 1/4"
5790505370	5/16"	Ø 1/4"
5791505370	-	Ø 1/4"
5796405370	Ø 1/4"	Ø 1/4"
5796505370	5/16"	Ø 1/4"
5792505370	-	Ø 1/4"

Part No.	Compressed air connection		Operational voltage	Operational voltage
		Pilot connection		
5790405320	5/32"	5/32"	24 V	-
5790505320	5/32"	5/32"	24 V	-
5791505320	5/32"	5/32"	24 V	-
5796405320	5/32"	5/32"	24 V	-
5796505320	5/32"	5/32"	24 V	-
5792505320	5/32"	5/32"	24 V	-
5790405370	5/32"		-	110 V
5790505370	5/32"		-	110 V
5791505370	5/32"		-	110 V
5796405370	5/32"		-	110 V
5796505370	5/32"		-	110 V
5792505370	5/32"		-	110 V

Part No.	Operational voltage	Power consumption		Holding power	Holding power
		AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
5790405320	-	-	1.6 W	-	-
5790505320	-	-	1.6 W	-	-
5791505320	-	-	1.6 W	-	-
5796405320	-	-	1.6 W	-	-
5796505320	-	-	1.6 W	-	-
5792505320	-	-	1.6 W	-	-
5790405370	110 V		-	3 VA	2.4 VA
5790505370	110 V		-	3 VA	2.4 VA
5791505370	110 V		-	3 VA	2.4 VA
5796405370	110 V		-	3 VA	2.4 VA
5796505370	110 V		-	3 VA	2.4 VA
5792505370	110 V		-	3 VA	2.4 VA

Part No.	Switch-on power		Pilot	Protected against polarity reversal
	AC 50 Hz	AC 60 Hz		
5790405320	-	-	Internal	Protected against polarity reversal
5790505320	-	-	Internal	Protected against polarity reversal
5791505320	-	-	Internal	Protected against polarity reversal
5796405320	-	-	Internal	Protected against polarity reversal
5796505320	-	-	Internal	Protected against polarity reversal
5792505320	-	-	Internal	Protected against polarity reversal
5790405370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5790505370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5791505370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal

Part No.	Switch-on power	Switch-on power	Pilot	Protected against polarity reversal
	AC 50 Hz	AC 60 Hz		
5796405370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5796505370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal
5792505370	4.2 VA	3.4 VA	Internal	Protected against polarity reversal

Nominal flow  $Q_n$  at 6 bar and  $\Delta p = 1$  bar, MO = Manual override, Without valve plug connector

## 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 .

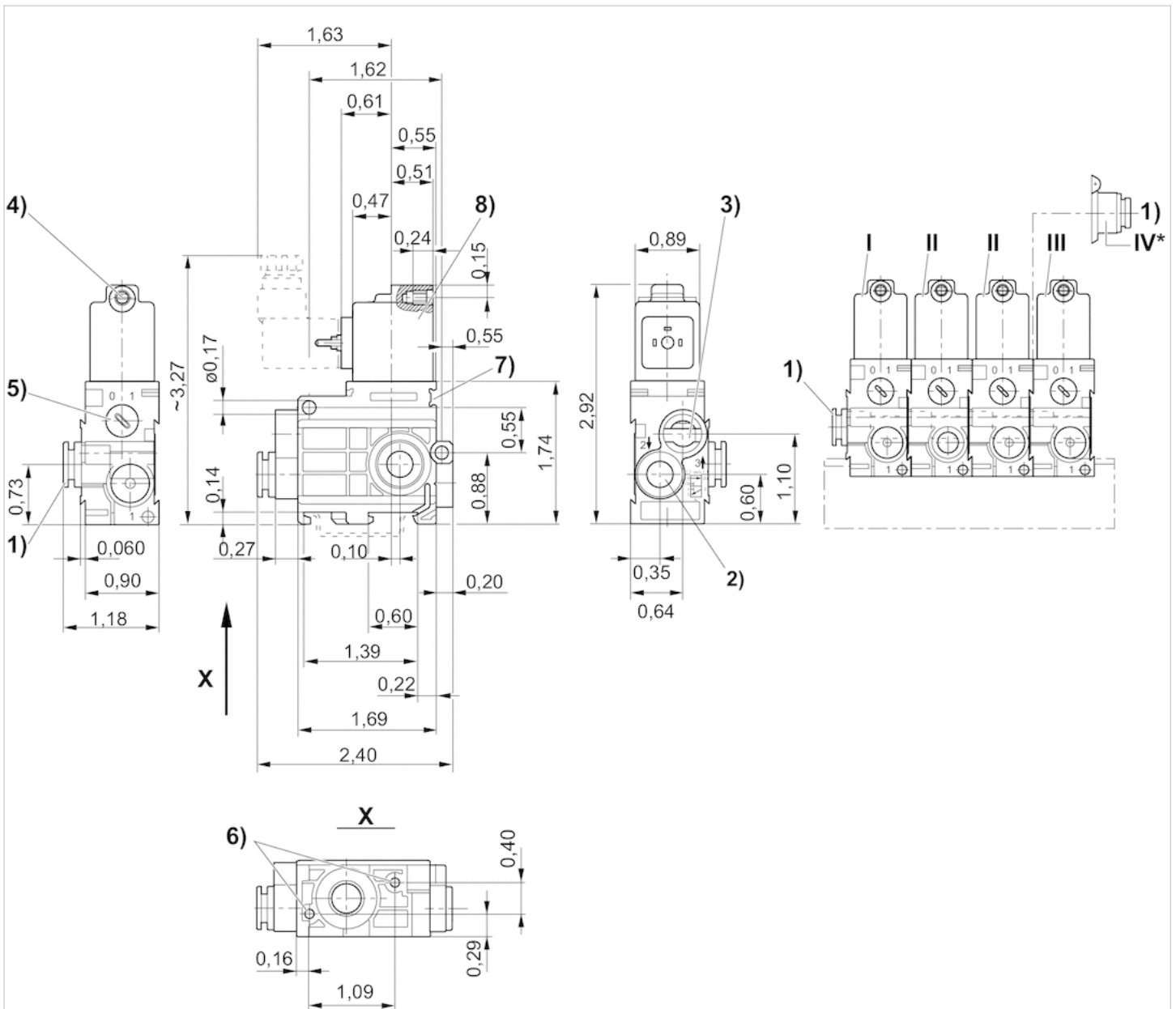
Versions with voltage of less than 50 V DC do not have a protective ground.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions in inches



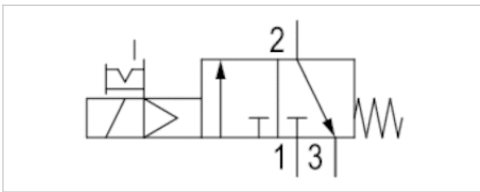
- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core Ø for M5
- 5) Manual override
- 6) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 7) Mounting space for name plate
- 8) Coil can be rotated at 180° intervals

\* 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













# 3/2-directional valve, Series 579

- NC
- Pipe connection
- Compressed air connection output Ø 1/4"
- Manual override with detent



Version	Poppet valve
Activation	Electrically
Pilot	Internal
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 <sup>3</sup>
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.	MO		Type
5790405380		NC	Inlet valve
5790505380		NC	Stacking valve
5791505380		NC	Stacking valve, additional pressure connection
5796405380		NC	Stacking valve, additional pressure connection
5796505380		NC	Stacking valve, additional pressure connection
5792505380		NC	End valve
5790405780		NC	Inlet valve
5790505780		NC	Inlet valve
5791505780		NC	Stacking valve
5796405780		NC	Stacking valve, additional pressure connection
5796505780		NC	Stacking valve, additional pressure connection
5792505780		NC	End valve

Part No.	Compressed air connection	
	Input	Output
5790405380	Ø 1/4"	Ø 1/4"
5790505380	5/16"	Ø 1/4"
5791505380	-	Ø 1/4"
5796405380	Ø 1/4"	Ø 1/4"
5796505380	5/16"	Ø 1/4"
5792505380	-	Ø 1/4"

Part No.	Compressed air connection	
	Input	Output
5790405780	Ø 1/4"	Ø 1/4"
5790505780	5/16"	Ø 1/4"
5791505780	-	Ø 1/4"
5796405780	Ø 1/4"	Ø 1/4"
5796505780	5/16"	Ø 1/4"
5792505780	-	Ø 1/4"

Part No.	Compressed air connection	Operational voltage	
	Pilot connection	AC 50 Hz	AC 60 Hz
5790405380	5/32"	230 V	230 V
5790505380	5/32"	230 V	230 V
5791505380	5/32"	230 V	230 V
5796405380	5/32"	230 V	230 V
5796505380	5/32"	230 V	230 V
5792505380	5/32"	230 V	230 V
5790405780	5/32"	230 V	230 V
5790505780	5/32"	230 V	230 V
5791505780	5/32"	230 V	230 V
5796405780	5/32"	230 V	230 V
5796505780	5/32"	230 V	230 V
5792505780	5/32"	230 V	230 V

Part No.	Holding power		Switch-on power		Pilot
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
5790405380	2.3 VA	2 VA	3.2 VA	2.8 VA	Internal
5790505380	2.3 VA	2 VA	3.2 VA	2.8 VA	Internal
5791505380	2.3 VA	2 VA	3.2 VA	2.8 VA	Internal
5796405380	2.3 VA	2 VA	3.2 VA	2.8 VA	Internal
5796505380	2.3 VA	2 VA	3.2 VA	2.8 VA	Internal
5792505380	2.3 VA	2 VA	3.2 VA	2.8 VA	Internal
5790405780	2.5 VA	2.2 VA	3.4 VA	3 VA	Internal
5790505780	2.5 VA	2.2 VA	3.4 VA	3 VA	Internal
5791505780	2.5 VA	2.2 VA	3.4 VA	3 VA	Internal
5796405780	2.5 VA	2.2 VA	3.4 VA	3 VA	Internal
5796505780	2.5 VA	2.2 VA	3.4 VA	3 VA	Internal
5792505780	2.5 VA	2.2 VA	3.4 VA	3 VA	Internal

Part No.	Protected against polarity reversal
5790405380	Protected against polarity reversal
5790505380	Protected against polarity reversal
5791505380	Protected against polarity reversal
5796405380	Protected against polarity reversal
5796505380	Protected against polarity reversal
5792505380	Protected against polarity reversal
5790405780	Protected against polarity reversal
5790505780	Protected against polarity reversal
5791505780	Protected against polarity reversal

Part No.	Protected against polarity reversal
5796405780	Protected against polarity reversal
5796505780	Protected against polarity reversal
5792505780	Protected against polarity reversal

Nominal flow  $Q_n$  at 6 bar and  $\Delta p = 1$  bar, MO = Manual override, Without valve plug connector

## 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 .

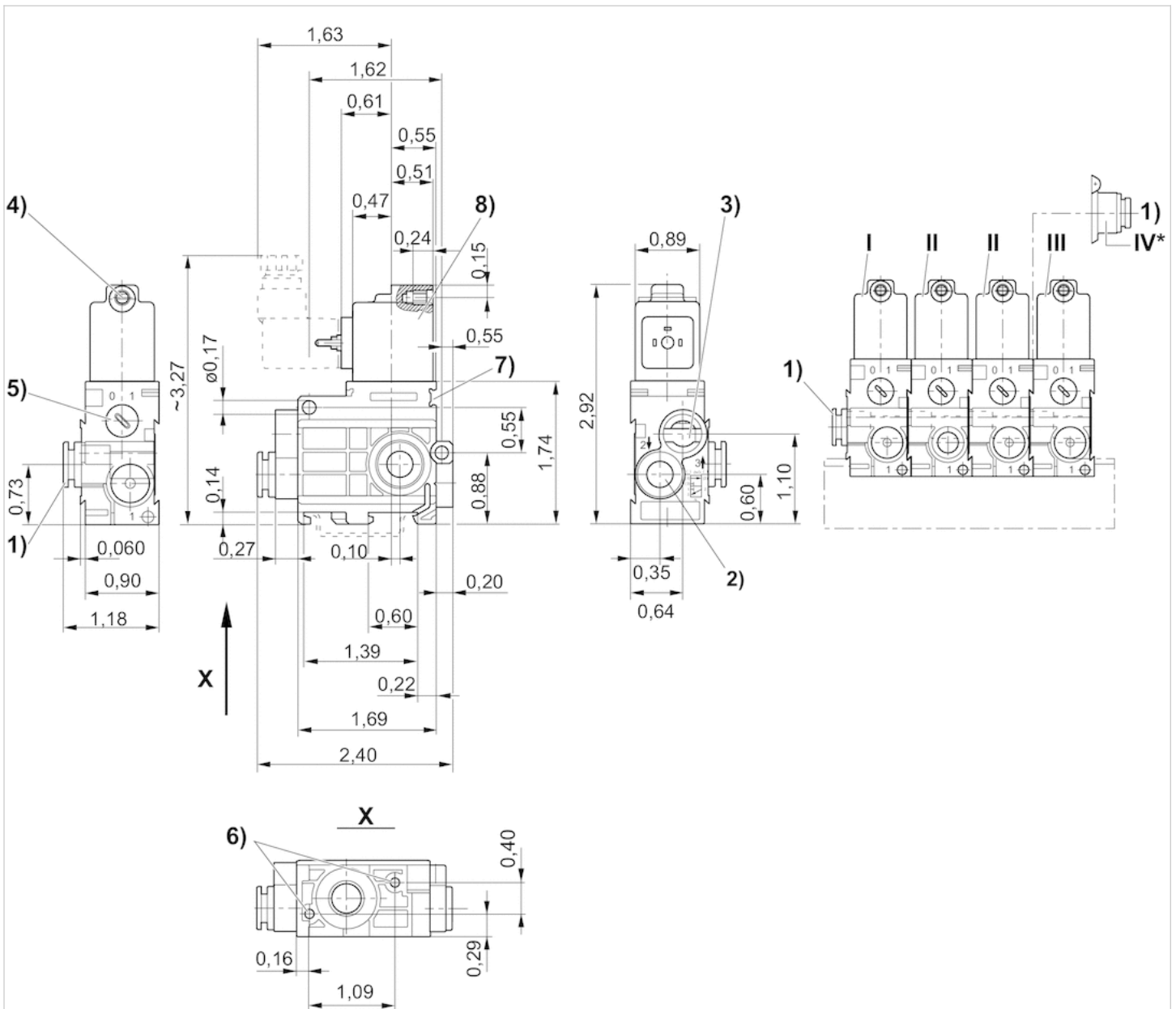
Versions with voltage of less than 50 V DC do not have a protective ground.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions in inches



- 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

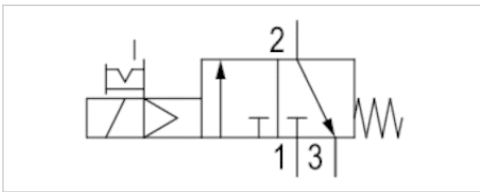
\* Air conn. module (item IV) mounted onto stacking valve (item II) permits additional air supply from right hand side. End valve (item III) not required.

I = Inlet valve, II = Stacking valve, III = End valve





















# 3/2-directional valve, Series 579

- NC
- Pipe connection
- Compressed air connection output Ø 1/4"
- Manual override with detent



Version	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 <sup>3</sup>
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.	MO		Type
5790400310		NC	Inlet valve
5790500310		NC	Inlet valve
5791500310		NC	Stacking valve
5796400310		NC	Stacking valve, additional pressure connection
5796500310		NC	Stacking valve, additional pressure connection
5792500310		NC	End valve
5790400320		NC	Inlet valve
5790500320		NC	Inlet valve
5791500320		NC	Stacking valve
5796400320		NC	Stacking valve, additional pressure connection
5796500320		NC	Stacking valve, additional pressure connection
5792500320		NC	End valve
5790400720		NC	Inlet valve
5790500720		NC	Inlet valve
5791500720		NC	Stacking valve
5796400720		NC	Stacking valve, additional pressure connection
5796500720		NC	Stacking valve, additional pressure connection
5792500720		NC	End valve

Part No.	Compressed air connection	
	Input	Output
5790400310	Ø 1/4"	Ø 1/4"
5790500310	5/16"	Ø 1/4"
5791500310	-	Ø 1/4"
5796400310	Ø 1/4"	Ø 1/4"
5796500310	5/16"	Ø 1/4"
5792500310	-	Ø 1/4"
5790400320	Ø 1/4"	Ø 1/4"
5790500320	5/16"	Ø 1/4"
5791500320	-	Ø 1/4"
5796400320	Ø 1/4"	Ø 1/4"
5796500320	5/16"	Ø 1/4"
5792500320	-	Ø 1/4"
5790400720	Ø 1/4"	Ø 1/4"
5790500720	5/16"	Ø 1/4"
5791500720	-	Ø 1/4"
5796400720	Ø 1/4"	Ø 1/4"
5796500720	5/16"	Ø 1/4"
5792500720	-	Ø 1/4"

Part No.	Compressed air connection		Operational voltage	Power consumption
	Pilot connection			
5790400310	5/32"		12 V	1.6 W
5790500310	5/32"		12 V	1.6 W
5791500310	5/32"		12 V	1.6 W
5796400310	5/32"		12 V	1.6 W
5796500310	5/32"		12 V	1.6 W
5792500310	5/32"		12 V	1.6 W
5790400320	5/32"		24 V	1.6 W
5790500320	5/32"		24 V	1.6 W
5791500320	5/32"		24 V	1.6 W
5796400320	5/32"		24 V	1.6 W
5796500320	5/32"		24 V	1.6 W
5792500320	5/32"		24 V	1.6 W
5790400720	5/32"		24 V	1.7 W
5790500720	5/32"		24 V	1.7 W
5791500720	5/32"		24 V	1.7 W
5796400720	5/32"		24 V	1.7 W
5796500720	5/32"		24 V	1.7 W
5792500720	5/32"		24 V	1.7 W

Part No.	Pilot	Protected against polarity reversal
5790400310	Internal	Protected against polarity reversal
5790500310	Internal	Protected against polarity reversal
5791500310	Internal	Protected against polarity reversal
5796400310	Internal	Protected against polarity reversal
5796500310	Internal	Protected against polarity reversal
5792500310	Internal	Protected against polarity reversal

Part No.	Pilot	Protected against polarity reversal
5790400320	Internal	Protected against polarity reversal
5790500320	Internal	Protected against polarity reversal
5791500320	Internal	Protected against polarity reversal
5796400320	Internal	Protected against polarity reversal
5796500320	Internal	Protected against polarity reversal
5792500320	Internal	Protected against polarity reversal
5790400720	Internal	Protected against polarity reversal
5790500720	Internal	Protected against polarity reversal
5791500720	Internal	Protected against polarity reversal
5796400720	Internal	Protected against polarity reversal
5796500720	Internal	Protected against polarity reversal
5792500720	Internal	Protected against polarity reversal

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

## 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 .

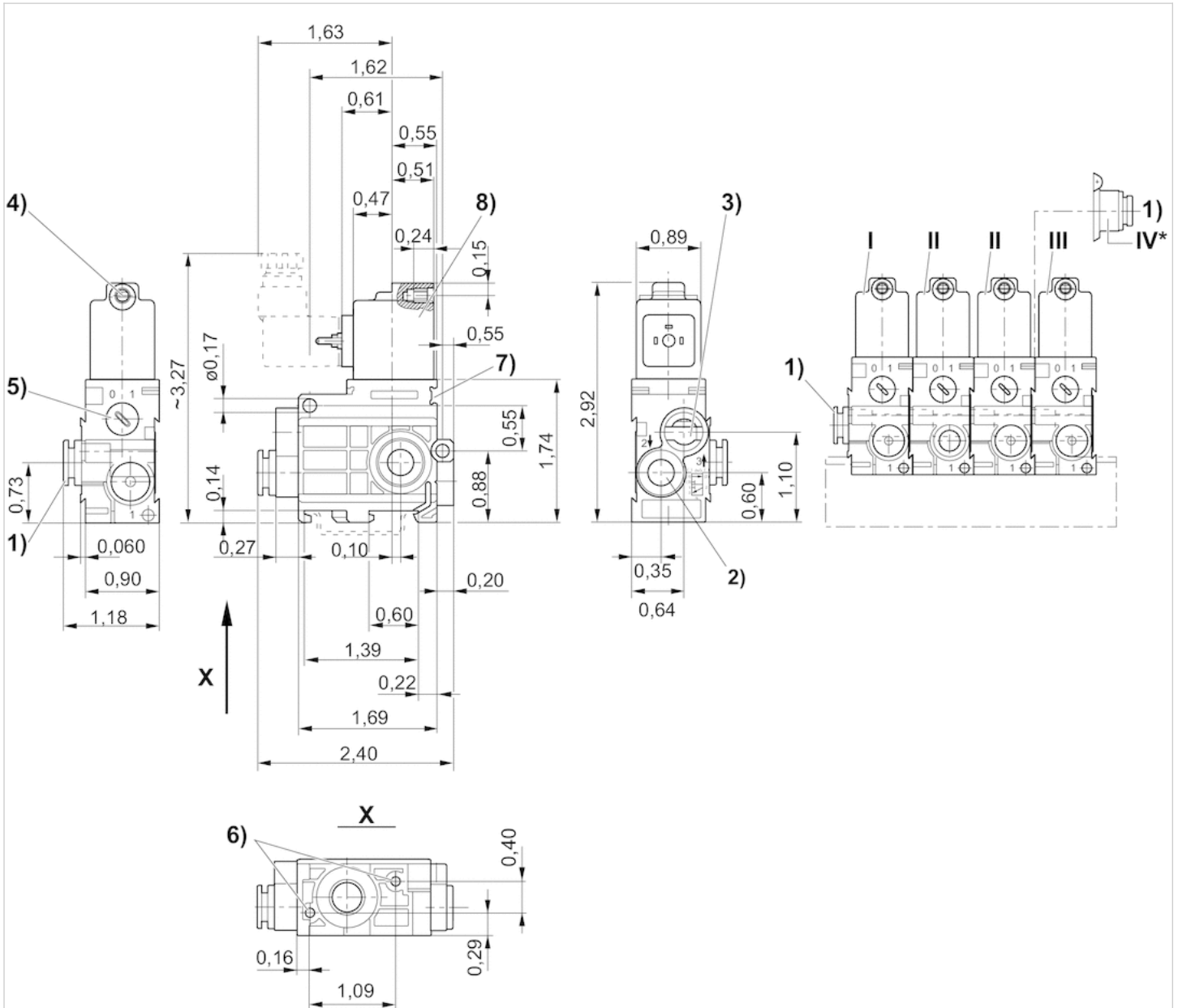
Versions with voltage of less than 50 V DC do not have a protective ground.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions in inches



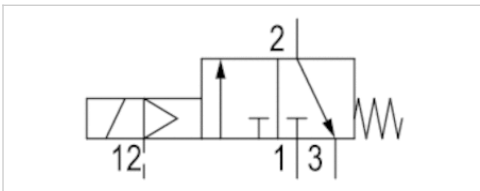
- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core Ø for M5
- 5) Manual override
- 6) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 7) Mounting space for name plate
- 8) Coil can be rotated at 180° intervals

\* 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

# 3/2-directional valve, Series 579

- NC
- Pipe connection
- Compressed air connection output Ø 1/4"



Version	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 <sup>3</sup>
Reverse polarity protection	Protected against polarity reversal
Duty cycle	100 %
Typ. switch-on time	18 ms
Typ. switch-off time	16 ms

## Technical data

Part No.		Type	Compressed air connection	
				Input
5790475320	NC	Inlet valve		Ø 1/4"
5790575320	NC	Inlet valve		5/16"
5791575320	NC	Stacking valve		-
5796475320	NC	Stacking valve, additional pressure connection		Ø 1/4"
5796575320	NC	Stacking valve, additional pressure connection		5/16"
5792575320	NC	End valve		-
5790475370	NC	Inlet valve		Ø 1/4"
5790575370	NC	Inlet valve		5/16"
5791575370	NC	Stacking valve		-
5796475370	NC	Stacking valve, additional pressure connection		Ø 1/4"
5796575370	NC	Stacking valve, additional pressure connection		5/16"
5792575370	NC	End valve		-

Part No.	Compressed air connection	
	Output	Pilot connection
5790475320	Ø 1/4"	5/32"
5790575320	Ø 1/4"	5/32"
5791575320	Ø 1/4"	5/32"
5796475320	Ø 1/4"	5/32"
5796575320	Ø 1/4"	5/32"
5792575320	Ø 1/4"	5/32"
5790475370	Ø 1/4"	5/32"

Part No.	Compressed air connection	
	Output	Pilot connection
5790575370	Ø 1/4"	5/32"
5791575370	Ø 1/4"	5/32"
5796475370	Ø 1/4"	5/32"
5796575370	Ø 1/4"	5/32"
5792575370	Ø 1/4"	5/32"

Part No.	Operational voltage		Holding power	
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
5790475320	24 V	24 V	2.2 VA	1.8 VA
5790575320	24 V	24 V	2.2 VA	1.8 VA
5791575320	24 V	24 V	2.2 VA	1.8 VA
5796475320	24 V	24 V	2.2 VA	1.8 VA
5796575320	24 V	24 V	2.2 VA	1.8 VA
5792575320	24 V	24 V	2.2 VA	1.8 VA
5790475370	110 V	110 V	3 VA	2.4 VA
5790575370	110 V	110 V	3 VA	2.4 VA
5791575370	110 V	110 V	3 VA	2.4 VA
5796475370	110 V	110 V	3 VA	2.4 VA
5796575370	110 V	110 V	3 VA	2.4 VA
5792575370	110 V	110 V	3 VA	2.4 VA

Part No.	Switch-on power		Pilot	With valve plug connector
	AC 50 Hz	AC 60 Hz		
5790475320	3 VA	2.6 VA	External	Without valve plug connector
5790575320	3 VA	2.6 VA	External	Without valve plug connector
5791575320	3 VA	2.6 VA	External	Without valve plug connector
5796475320	3 VA	2.6 VA	External	Without valve plug connector
5796575320	3 VA	2.6 VA	External	Without valve plug connector
5792575320	3 VA	2.6 VA	External	Without valve plug connector
5790475370	4.2 VA	3.4 VA	External	Without valve plug connector
5790575370	4.2 VA	3.4 VA	External	Without valve plug connector
5791575370	4.2 VA	3.4 VA	External	Without valve plug connector
5796475370	4.2 VA	3.4 VA	External	Without valve plug connector
5796575370	4.2 VA	3.4 VA	External	Without valve plug connector
5792575370	4.2 VA	3.4 VA	External	Without valve plug connector

Part No.	Protected against polarity reversal
5790475320	Protected against polarity reversal
5790575320	Protected against polarity reversal
5791575320	Protected against polarity reversal
5796475320	Protected against polarity reversal
5796575320	Protected against polarity reversal
5792575320	Protected against polarity reversal
5790475370	Protected against polarity reversal
5790575370	Protected against polarity reversal
5791575370	Protected against polarity reversal
5796475370	Protected against polarity reversal

Part No.	Protected against polarity reversal
5796575370	Protected against polarity reversal
5792575370	Protected against polarity reversal

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

## 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).

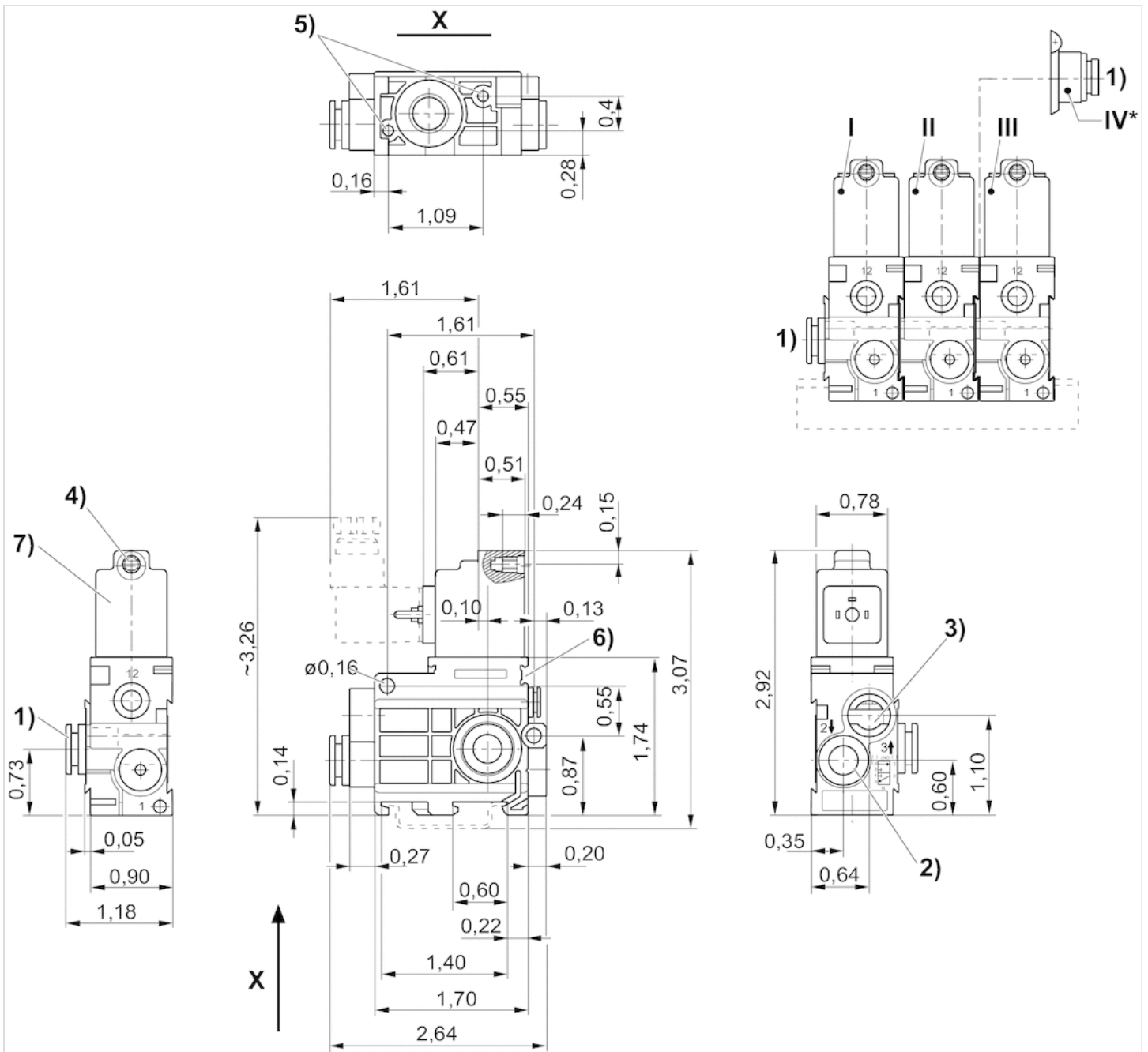
At an ambient temperature of 40 °C the max. working pressure is 10 bar .  
 Versions with voltage of less than 50 V DC do not have a protective ground.  
 The control pressure must be at least as high as the working pressure.

## 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.

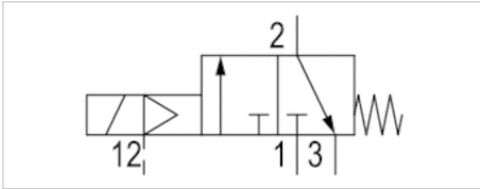
I = Inlet valve, II = Stacking valve, III = End valve



# 3/2-directional valve, Series 579

- NC

- Compressed air connection output Ø 1/4"



Version	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 <sup>3</sup>
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
5790475380	NC	Inlet valve		Ø 1/4"
5790575380	NC	Inlet valve		5/16"
5791575380	NC	Stacking valve		-
5790475780	NC	Inlet valve		Ø 1/4"
5790575780	NC	Inlet valve		5/16"
5796475380	NC	Stacking valve, additional pressure connection		Ø 1/4"
5791575780	NC	Stacking valve		-
5796475780	NC	Stacking valve, additional pressure connection		Ø 1/4"
5796575380	NC	Stacking valve, additional pressure connection		5/16"
5796575780	NC	Stacking valve, additional pressure connection		5/16"
5792575380	NC	End valve		-
5792575780	NC	End valve		-

Part No.	Compressed air connection	
	Output	Pilot connection
5790475380	Ø 1/4"	5/32"
5790575380	Ø 1/4"	5/32"
5791575380	Ø 1/4"	5/32"
5790475780	Ø 1/4"	5/32"
5790575780	Ø 1/4"	5/32"
5796475380	Ø 1/4"	5/32"
5791575780	Ø 1/4"	5/32"
5796475780	Ø 1/4"	5/32"

Part No.	Compressed air connection	
	Output	Pilot connection
5796575380	Ø 1/4"	5/32"
5796575780	Ø 1/4"	5/32"
5792575380	Ø 1/4"	5/32"
5792575780	Ø 1/4"	5/32"

Part No.	Operational voltage		Holding power	
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
5790475380	230 V	230 V	2.3 VA	2 VA
5790575380	230 V	230 V	2.3 VA	2 VA
5791575380	230 V	230 V	2.3 VA	2 VA
5790475780	230 V	230 V	2.5 VA	2.2 VA
5790575780	230 V	230 V	2.5 VA	2.2 VA
5796475380	230 V	230 V	2.3 VA	2 VA
5791575780	230 V	230 V	2.5 VA	2.2 VA
5796475780	230 V	230 V	2.5 VA	2.2 VA
5796575380	230 V	230 V	2.3 VA	2 VA
5796575780	230 V	230 V	2.5 VA	2.2 VA
5792575380	230 V	230 V	2.3 VA	2 VA
5792575780	230 V	230 V	2.5 VA	2.2 VA

Part No.	Switch-on power		Pilot	With valve plug connector
	AC 50 Hz	AC 60 Hz		
5790475380	3.2 VA	2.8 VA	External	Without valve plug connector
5790575380	3.2 VA	2.8 VA	External	Without valve plug connector
5791575380	3.2 VA	2.8 VA	External	Without valve plug connector
5790475780	3.4 VA	3 VA	External	Without valve plug connector
5790575780	3.4 VA	3 VA	External	Without valve plug connector
5796475380	3.2 VA	2.8 VA	External	Without valve plug connector
5791575780	3.4 VA	3 VA	External	Without valve plug connector
5796475780	3.4 VA	3 VA	External	Without valve plug connector
5796575380	3.2 VA	2.8 VA	External	Without valve plug connector
5796575780	3.4 VA	3 VA	External	Without valve plug connector
5792575380	3.2 VA	2.8 VA	External	Without valve plug connector
5792575780	3.4 VA	3 VA	External	Without valve plug connector

Part No.	Protected against polarity reversal
5790475380	Protected against polarity reversal
5790575380	Protected against polarity reversal
5791575380	Protected against polarity reversal
5790475780	Protected against polarity reversal
5790575780	Protected against polarity reversal
5796475380	Protected against polarity reversal
5791575780	Protected against polarity reversal
5796475780	Protected against polarity reversal
5796575380	Protected against polarity reversal
5796575780	Protected against polarity reversal
5792575380	Protected against polarity reversal

Part No.	Protected against polarity reversal
5792575780	Protected against polarity reversal

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

## 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).

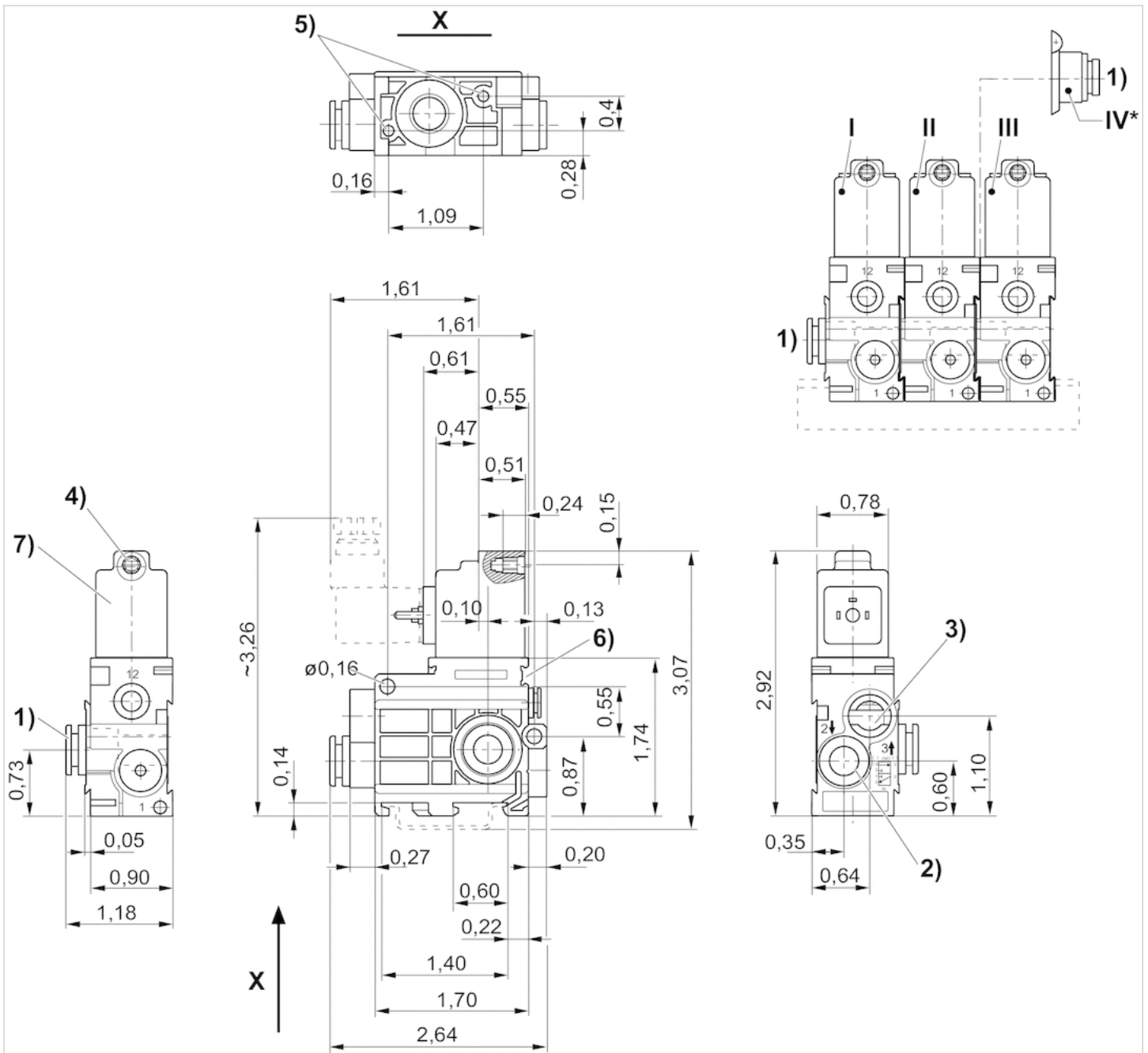
At an ambient temperature of 40 °C the max. working pressure is 10 bar .  
 Versions with voltage of less than 50 V DC do not have a protective ground.  
 The control pressure must be at least as high as the working pressure.

## Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Polyurethane

## Dimensions

### Dimensions



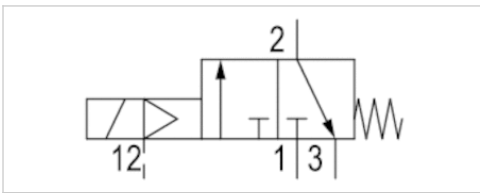
- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core Ø for M5
- 5) Manual override
- 6) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 7) Mounting space for name plate
- 8) Coil can be rotated at 180° intervals

\* 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

# 3/2-directional valve, Series 579

- NC
- Pipe connection
- Compressed air connection output Ø 1/4"
- Manual override with detent



Version	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 <sup>3</sup>
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.	NC	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"	
5796570720	NC	Stacking valve, additional pressure connection	5/16"	
5792570720	NC	End valve	-	

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

Part No.	Protected against polarity reversal
5790470310	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

Part No.	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  $Q_n$  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.

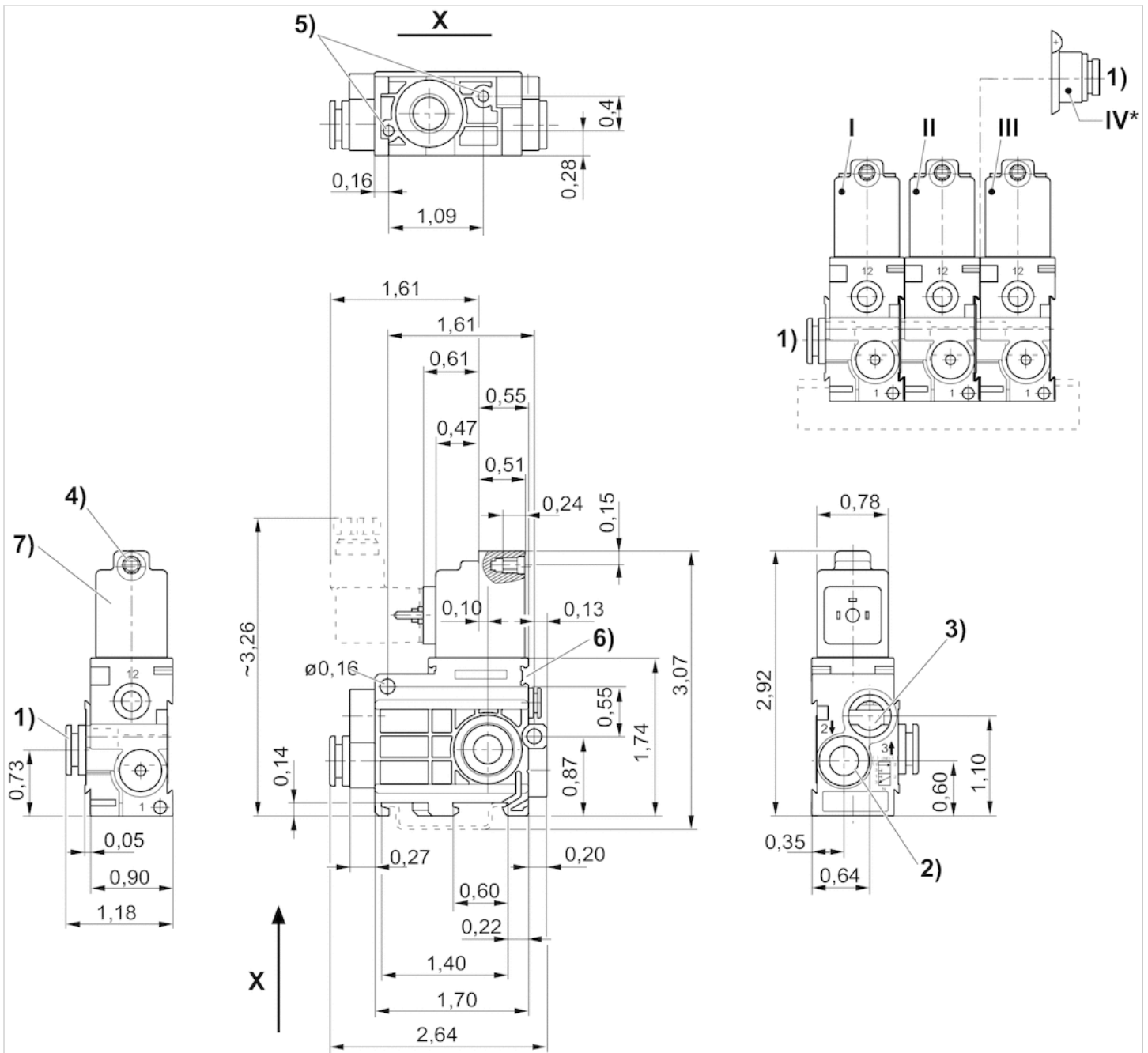
The control pressure must be at least as high as the working pressure.

## 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



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