



Directional valves → Electrically operated  
**Series 579, 589**

**InduParts Pneumatics B.V.B.A.**

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BELGIUM

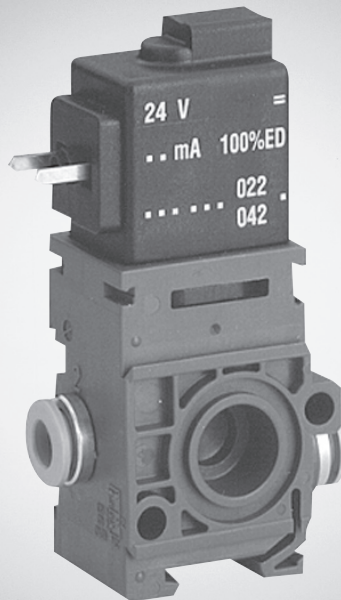
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Brochure

















Directional valves → Electrically operated

**Series 579, 589**











	3/2-way valve, Series 579 ► Qn = 50 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC	<b>5</b>
	3/2-way valve, Series 579 ► Qn = 50 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC	<b>7</b>
	3/2-way valve, Series 579 ► Qn = 520 - 850 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC	<b>10</b>
	3/2-way valve, Series 579 ► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC	<b>13</b>
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	3/2-way valve, Series 579 ► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NO	<b>21</b>
	3/2-way valve, Series 579 ► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO	<b>24</b>
	3/2-way valve, Series 579 ► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO	<b>28</b>
	3/2-way valve, Series 579 ► Qn = 520 - 850 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NC, externally piloted	<b>32</b>
	3/2-way valve, Series 579 ► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted	<b>35</b>
	3/2-way valve, Series 579 ► Qn = 850 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted	<b>39</b>
	3/2-way valve, Series 579 ► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NO, externally piloted	<b>43</b>
	3/2-way valve, Series 579 ► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted	<b>46</b>
	3/2-way valve, Series 579 ► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted	<b>50</b>

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	5/2-way valve, Series 579 ► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent	<b>54</b>
	5/2-way valve, Series 579 ► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent	<b>57</b>
	5/2-way valve, Series 579 ► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent	<b>61</b>
	2/2-way valve, Series 589 ► Qn = 50 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent	<b>65</b>
	3/2-way valve, Series 589 ► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC	<b>67</b>
	3/2-way valve, Series 589 ► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NO	<b>70</b>
	3/2-way valve, Series 589 ► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NC, externally piloted	<b>73</b>
	3/2-way valve, Series 589 ► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 8x1 - Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NO, externally piloted	<b>76</b>
	5/2-way valve, Series 589 ► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent	<b>79</b>
<b>Accessories</b>		
	Electrical connectors, Series CN1 ► ISO 15217:2000 ► Electrical connector, form C	<b>82</b>
	Electrical connectors, Series CN1 ► ISO 15217:2000 ► Electrical connector, form C ► with cable	<b>83</b>
	Contact bridge ► Control: plug M12 ► Plug, M12x1, 4-pin ► Number of solenoid coils: 1	<b>85</b>
	Contact bridge ► Control: Multipole ► Plug, Snap-in plug Ø8, 3-pin ► Number of solenoid coils: 1	<b>86</b>
	Contact bridge ► Control: Multipole ► without wire end ferrule, tin-plated, with cable ► Number of solenoid coils: 1	<b>88</b>

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	Contact bridge ► Control: Link structure VDS ► Plug, mini-DIN, 8-pin, with cable ► Number of solenoid coils: 1	<b>90</b>
	Contact bridge ► Control: Link structure VDS ► Plug, M12x1, 8-pin, with cable ► Number of solenoid coils: 1	<b>93</b>
	Silencer-throttle unit combination, Throttle valves ► Qn = 1300 l/min ► Throttle valve with silencer	<b>96</b>
	Silencers, Series SI1 ► Sintered bronze	<b>96</b>
	Silencers, Series SI1	<b>97</b>
	Restricted exhaust, Series SI1 ► for series 579/589	<b>97</b>
	Silencers, Series SI1 ► Sintered bronze	<b>98</b>
	Threaded pins ► 579, 589	<b>98</b>
	Name plates	<b>99</b>
	Air connection module ► with push-in fitting	<b>99</b>



## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 50 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC



P579\_400

Version	Poppet valve
Sealing principle	soft sealing
Working pressure min./max.	0 bar / 7 bar
Control pressure min./max.	-- / 7 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	20 ms
Switch-off time	23 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Versions with voltage of less than 50 V DC do not have a protective ground

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	2	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	4.2	4.2	3.1	3.1
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	4.2	3	3
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	4.4	4.4	3.1	3.1

Directional valves → Electrically operated

3/2-way valve, Series 579

► Qn = 50 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC

		MO	Compressed air connection		Operating voltage			Flow rate value	Weight	Note	Part No.
			Input	Output	DC	AC 50 Hz	AC 60 Hz	Qn			
								[l/min]	[kg]		
					12 V	-	-	50	0.079	-	5794000210
					24 V	-	-			-	<b>5794000220</b>
					24 V	-	-			1); 2); 3)	5794000620
					-	24 V	24 V			-	5794005220
					-	110 V	110 V			-	5794005270
					-	230 V	230 V			-	<b>5794005280</b>

MO = Manual override

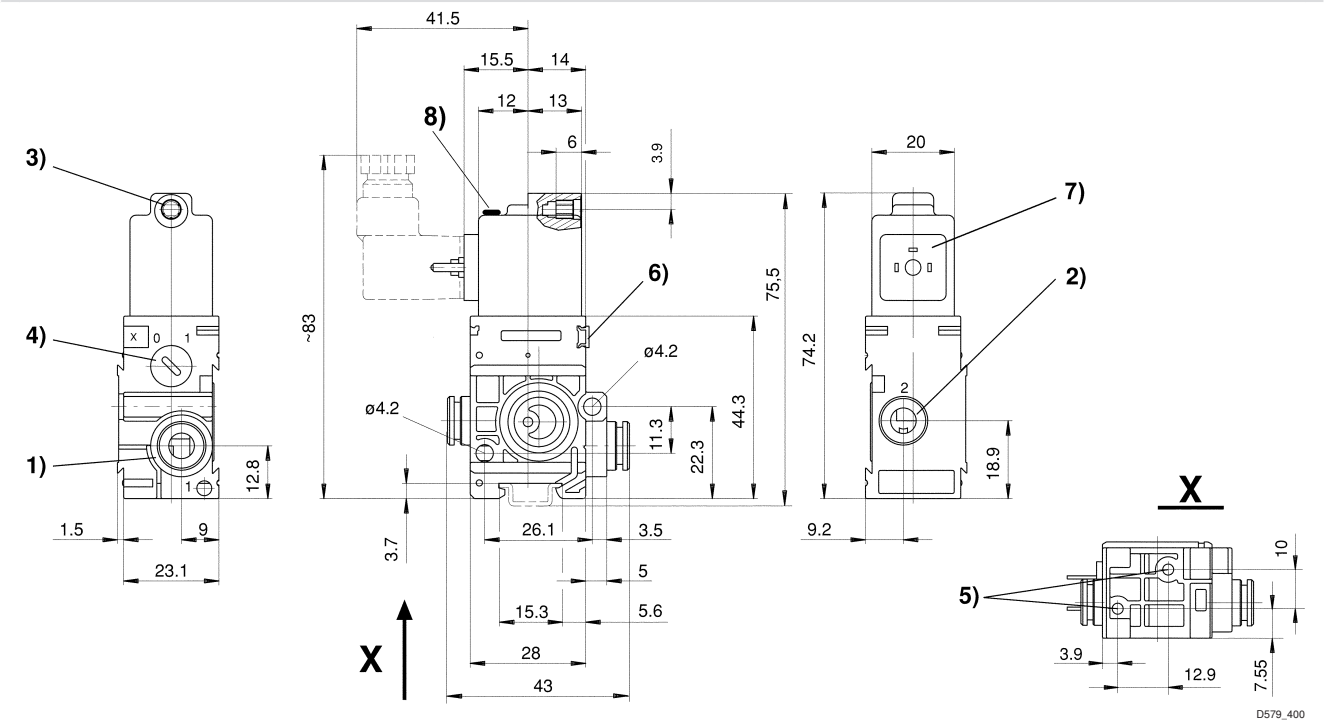
1) with LED and protective diode for reducing voltage peaks in the solenoid coil

2) power consumption 2,1 W

3) LED status display : Red

Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions

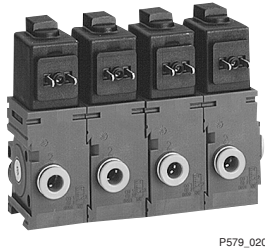


- 1) Port 1
- 2) Port 2
- 3) Port 3, core Ø for M5
- 4) Manual override
- 5) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 6) Mounting space for name plate
- 7) Coil can be rotated at 180° intervals
- 8) LED

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 50 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC



P579\_020

Version	Poppet valve
Sealing principle	soft sealing
Working pressure min./max.	0 bar / 7 bar
Control pressure min./max.	0 bar / 7 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	20 ms
Switch-off time	23 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

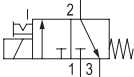

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Versions with voltage of less than 50 V DC do not have a protective ground

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	2	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2.1	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	4.2	4.2	3.1	3.1
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	4.2	3	3
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	4.4	4.4	3.1	3.1
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	4.6	4.6	3.3	3.3

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 50 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC

		MO	Blocking principle	Compressed air connection		Operating voltage			Part No.
				Input	Output	DC	AC 50 Hz	AC 60 Hz	
	NC		Inlet valve	Ø 8x1	Ø 6x1	12 V	-	-	5790200210
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790200220</b>
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790200620</b>
			Inlet valve	Ø 8x1		-	24 V	24 V	5790205220
			Inlet valve	Ø 8x1		-	110 V	110 V	5790205270
			Inlet valve	Ø 8x1		-	230 V	230 V	5790205280
			Inlet valve	Ø 8x1		-	230 V	230 V	5790205680
			Stacking valve	-		12 V	-	-	5791200210
			Stacking valve	-		24 V	-	-	<b>5791200220</b>
			Stacking valve	-		24 V	-	-	<b>5791200620</b>
			Stacking valve	-		-	24 V	24 V	5791205220
			Stacking valve	-		-	110 V	110 V	5791205270
			Stacking valve	-		-	230 V	230 V	5791205280
			Stacking valve	-		-	230 V	230 V	5791205680
			End valve	-		12 V	-	-	5792200210
			End valve	-		24 V	-	-	<b>5792200220</b>
			End valve	-		24 V	-	-	<b>5792200620</b>
			End valve	-		-	24 V	24 V	5792205220
			End valve	-		-	110 V	110 V	5792205270
			End valve	-		-	230 V	230 V	5792205280
			End valve	-		-	230 V	230 V	5792205680
Part No.	Flow rate value		Weight			Note			
	Qn								
	[l/min]		[kg]						
5790200210	50		0.079			-			
<b>5790200220</b>						-			
<b>5790200620</b>						1); 2); 3)			
5790205220						-			
5790205270						-			
5790205280						-			
5790205680						3)			
5791200210						-			
<b>5791200220</b>						-			
<b>5791200620</b>						1); 2); 3)			
5791205220						-			
5791205270						-			
5791205280						-			
5791205680						3)			
5792200210						-			
<b>5792200220</b>						-			
<b>5792200620</b>						1); 2); 3)			
5792205220						-			
5792205270						-			
5792205280						-			
5792205680						3)			

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 2,1 W

3) LED status display : Red

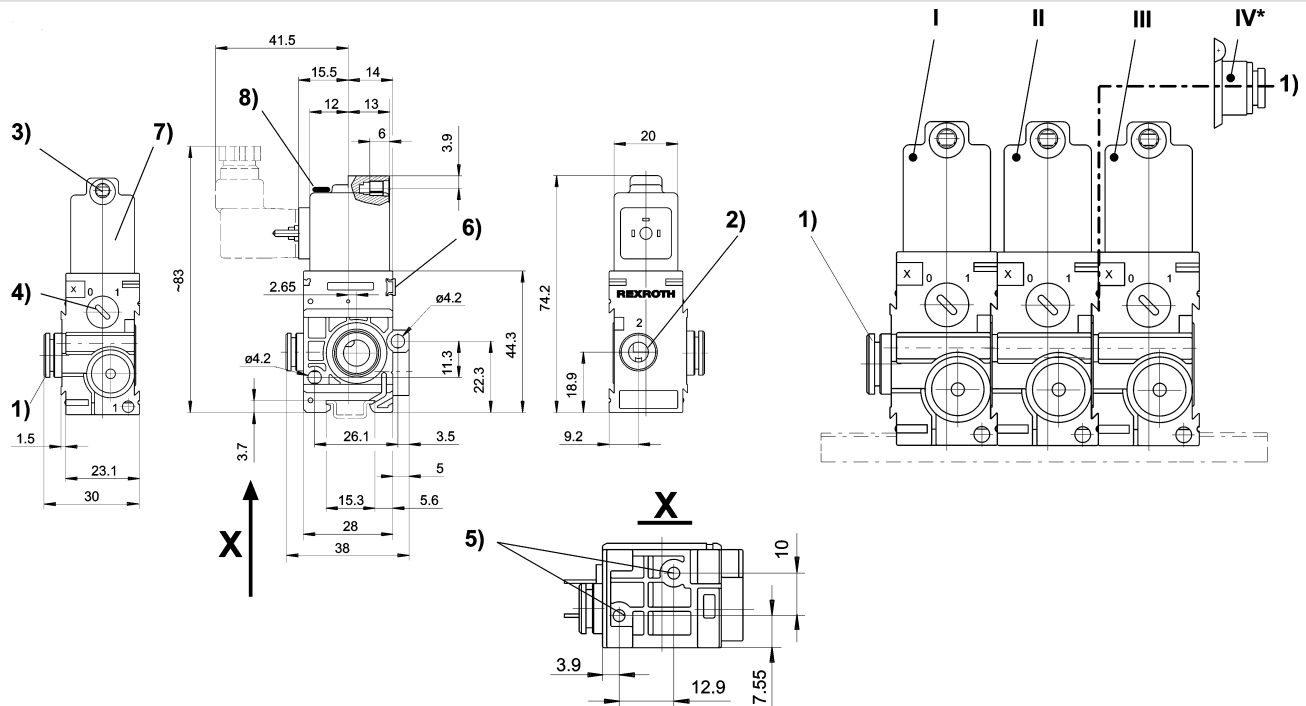
Nominal flow Qn at 6 bar and Δp = 1 bar

**Directional valves → Electrically operated**

### 3/2-way valve, Series 579

► Qn = 50 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC

## Dimensions



- 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) LED

\* 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



Directional valves → Electrically operated

3/2-way valve, Series 579

► Qn = 520 - 850 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC



P579\_460

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	-- / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

Technical Remarks										
<div> <div>■</div>                     The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.                 </div> <div> <div>■</div>                     The oil content of air pressure must remain constant during the life cycle.                 </div> <div> <div>■</div>                     Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.                 </div> <div> <div>■</div>                     At an ambient temperature of 40 °C the max. working pressure is 10 bar.                 </div> <div> <div>■</div>                     Versions with voltage of less than 50 V DC do not have a protective ground                 </div>										

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 - 850 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC

		MO	Compressed air connection		Operating voltage			Flow rate value	Weight	Note	Part No.
			Input	Output	DC	AC 50 Hz	AC 60 Hz	Qn			
								[l/min]	[kg]		
	NC		Ø 6x1	Ø 6x1	12 V	-	-	520	0.093	-	<b>5794400210</b>
			Ø 6x1	Ø 6x1	24 V	-	-	520		-	<b>5794400220</b>
			Ø 6x1	Ø 6x1	24 V	-	-	520		1); 2); 3)	<b>5794400620</b>
			Ø 6x1	Ø 6x1	-	24 V	24 V	520		-	<b>5794405220</b>
			Ø 6x1	Ø 6x1	-	110 V	110 V	520		-	5794405270
			Ø 6x1	Ø 6x1	-	230 V	230 V	520		-	<b>5794405280</b>
			Ø 6x1	Ø 6x1	-	230 V	230 V	520		3)	5794405680
			Ø 8x1	Ø 8x1	12 V	-	-	850		-	<b>5794600210</b>
			Ø 8x1	Ø 8x1	24 V	-	-	850		-	<b>5794600220</b>
			Ø 8x1	Ø 8x1	24 V	-	-	850		1); 2); 3)	<b>5794600620</b>
			Ø 8x1	Ø 8x1	-	24 V	24 V	850		-	<b>5794605220</b>
			Ø 8x1	Ø 8x1	-	110 V	110 V	850		-	<b>5794605270</b>
			Ø 8x1	Ø 8x1	-	230 V	230 V	850		-	<b>5794605280</b>
			Ø 8x1	Ø 8x1	-	230 V	230 V	850		3)	5794605680

MO = Manual override

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

2) power consumption 1,7 W

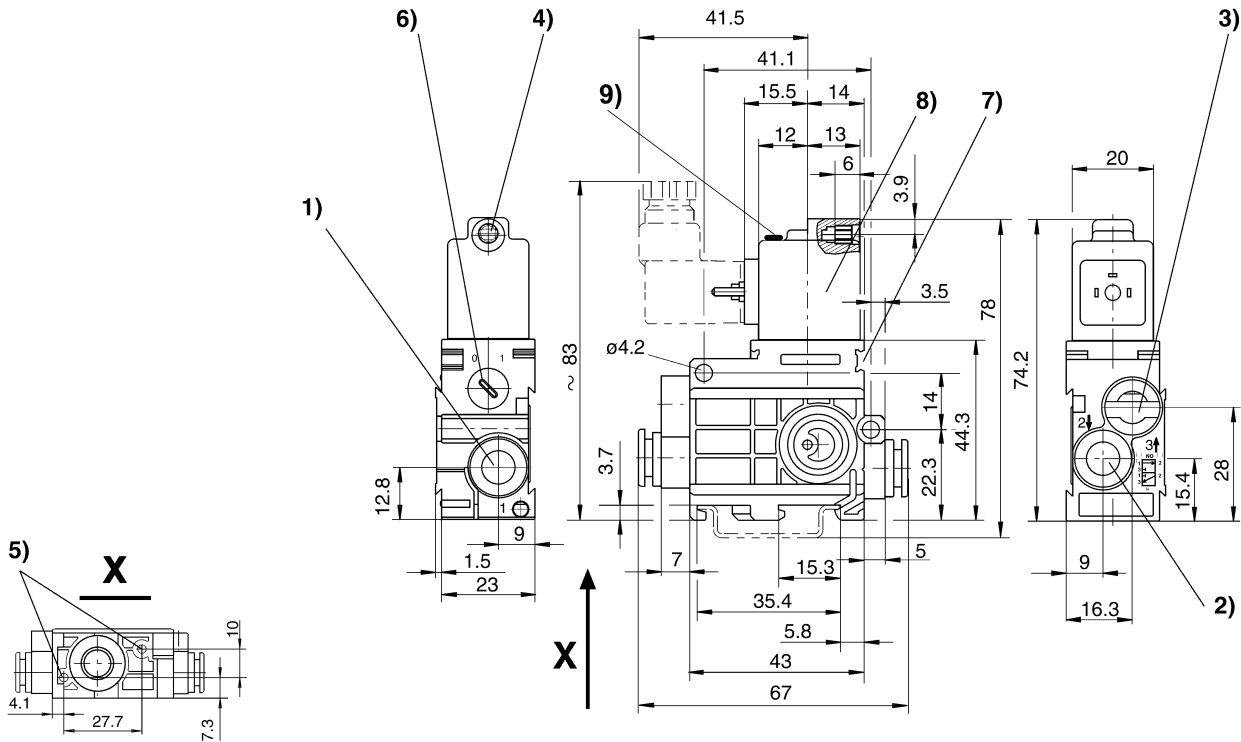
3) LED status display : Red

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

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

►  $Q_n = 520 - 850 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1 - \varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC

**Dimensions**

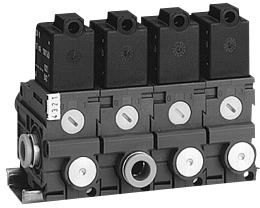
D579\_460

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

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC



P579\_051

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	-- / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

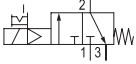

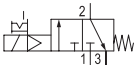

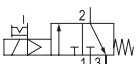

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC

		MO	Blocking principle	Compressed air connection		Operating voltage			Part No.
				Input	Output	DC	AC 50 Hz	AC 60 Hz	
	NC		Inlet valve	Ø 8x1	Ø 6x1	12 V	-	-	<b>5790500210</b>
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790500220</b>
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790500620</b>
			Inlet valve	Ø 8x1		-	24 V	24 V	<b>5790505220</b>
			Inlet valve	Ø 8x1		-	110 V	110 V	5790505270
			Inlet valve	Ø 8x1		-	230 V	230 V	<b>5790505280</b>
			Inlet valve	Ø 8x1		-	230 V	230 V	5790505680
			Stacking valve	-		12 V	-	-	<b>5791500210</b>
			Stacking valve	-		24 V	-	-	<b>5791500220</b>
			Stacking valve	-		24 V	-	-	<b>5791500620</b>
			Stacking valve	-		-	24 V	24 V	<b>5791505220</b>
			Stacking valve	-		-	110 V	110 V	<b>5791505270</b>
			Stacking valve	-		-	230 V	230 V	<b>5791505280</b>
			Stacking valve	-		-	230 V	230 V	5791505680
	NC		Stacking valve, add. compressed air port	Ø 6x1	Ø 6x1	12 V	-	-	5796400210
				Ø 8x1		12 V	-	-	5796500210
				Ø 6x1		24 V	-	-	5796400220
				Ø 8x1		24 V	-	-	<b>5796500220</b>
				Ø 6x1		24 V	-	-	5796400620
				Ø 8x1		24 V	-	-	5796500620
				Ø 6x1		-	24 V	24 V	5796405220
				Ø 8x1		-	24 V	24 V	5796505220
				Ø 6x1		-	110 V	110 V	5796405270
				Ø 8x1		-	110 V	110 V	5796505270
				Ø 6x1		-	230 V	230 V	5796405280
				Ø 8x1		-	230 V	230 V	5796505280
				Ø 6x1		-	230 V	230 V	5796405680
				Ø 8x1		-	230 V	230 V	5796505680
	NC		End valve	-	Ø 6x1	12 V	-	-	<b>5792500210</b>
						24 V	-	-	<b>5792500220</b>
						24 V	-	-	<b>5792500620</b>
						-	24 V	24 V	<b>5792505220</b>
						-	110 V	110 V	5792505270
						-	230 V	230 V	<b>5792505280</b>
						-	230 V	230 V	5792505680



## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC

Part No.	Flow rate value	Weight	Note
	Qn		
	[l/min]	[kg]	
<b>5790500210</b>	520	0.093	-
<b>5790500220</b>			-
<b>5790500620</b>			1); 2); 3)
<b>5790505220</b>			-
5790505270			-
<b>5790505280</b>			-
5790505680			3)
<b>5791500210</b>			-
<b>5791500220</b>			-
<b>5791500620</b>			1); 2); 3)
<b>5791505220</b>			-
<b>5791505270</b>			-
<b>5791505280</b>			-
5791505680			3)
5796400210	520	0.093	-
5796500210			-
5796400220			-
<b>5796500220</b>			-
5796400620			1); 2); 3)
5796500620			1); 2); 3)
5796405220			-
5796505220			-
5796405270			-
5796505270			-
5796405280			-
5796505280			-
5796405680			3)
5796505680			3)
<b>5792500210</b>	520	0.093	-
<b>5792500220</b>			-
<b>5792500620</b>			1); 2); 3)
<b>5792505220</b>			-
5792505270			-
<b>5792505280</b>			-
5792505680			3)

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 2,1 W

3) LED status display : Red

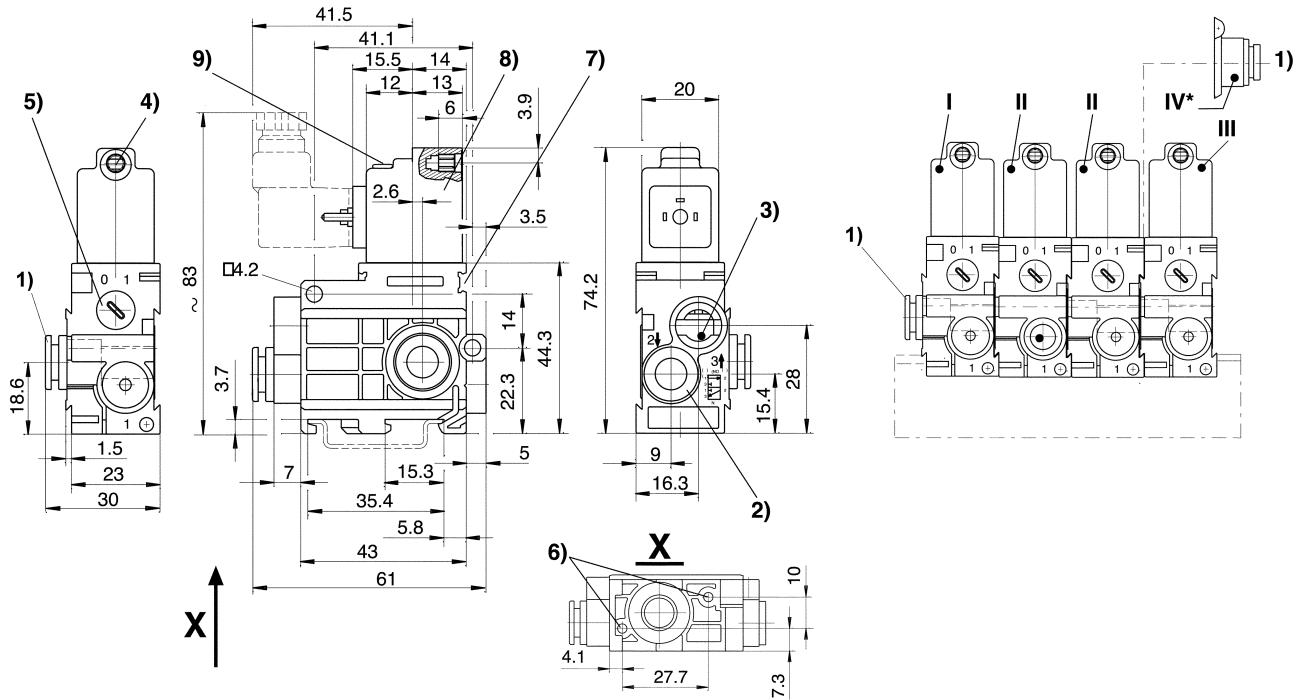
Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

## Directional valves → Electrically operated

### 3/2-way valve, Series 579

►  $Q_n = 520 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC

#### Dimensions



D579\_051

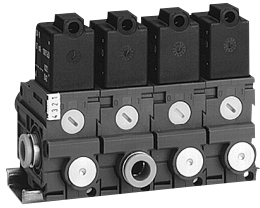
- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core  $\varnothing$  for M5
- 5) Manual override
- 6) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 7) Mounting space for name plate
- 8) Coil can be rotated at  $180^\circ$  intervals
- 9) LED

\* 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.

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 850 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC



P579\_051

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	-- / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

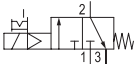

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 850 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC

		MO	Blocking principle	Compressed air connection		Operating voltage			Part No.
				Input	Output	DC	AC 50 Hz	AC 60 Hz	
	NC		Inlet valve	Ø 8x1		12 V	-	-	<b>5790600210</b>
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790600220</b>
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790600620</b>
			Inlet valve	Ø 8x1		-	24 V	24 V	<b>5790605220</b>
			Inlet valve	Ø 8x1		-	110 V	110 V	5790605270
			Inlet valve	Ø 8x1		-	230 V	230 V	<b>5790605280</b>
			Inlet valve	Ø 8x1		-	230 V	230 V	5790605680
			Stacking valve	-		12 V	-	-	<b>5791600210</b>
			Stacking valve	-		24 V	-	-	<b>5791600220</b>
			Stacking valve	-		24 V	-	-	<b>5791600620</b>
			Stacking valve	-		-	24 V	24 V	<b>5791605220</b>
			Stacking valve	-		-	110 V	110 V	5791605270
			Stacking valve	-		-	230 V	230 V	<b>5791605280</b>
			Stacking valve	-		-	230 V	230 V	5791605680
			Stacking valve, add. compressed air port	Ø 8x1		12 V	-	-	5796600210
			Stacking valve, add. compressed air port	Ø 8x1	Ø 8x1	24 V	-	-	<b>5796600220</b>
			Stacking valve, add. compressed air port	Ø 8x1		24 V	-	-	5796600620
			Stacking valve, add. compressed air port	Ø 8x1		-	24 V	24 V	5796605220
			Stacking valve, add. compressed air port	Ø 8x1		-	110 V	110 V	5796605270
			Stacking valve, add. compressed air port	Ø 8x1		-	230 V	230 V	5796605280
			Stacking valve, add. compressed air port	Ø 8x1		-	230 V	230 V	5796605680
			End valve	-		12 V	-	-	<b>5792600210</b>
			End valve	-		24 V	-	-	<b>5792600220</b>
			End valve	-		24 V	-	-	<b>5792600620</b>
			End valve	-		-	24 V	24 V	<b>5792605220</b>
			End valve	-		-	110 V	110 V	5792605270
			End valve	-		-	230 V	230 V	<b>5792605280</b>
			End valve	-		-	230 V	230 V	5792605680

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 850 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC

Part No.	Flow rate value	Weight	Note
	Qn		
	[l/min]	[kg]	
<b>5790600210</b>	850	0.093	-
<b>5790600220</b>			-
<b>5790600620</b>			1); 2); 3)
<b>5790605220</b>			-
5790605270			-
<b>5790605280</b>			-
5790605680			3)
<b>5791600210</b>			-
<b>5791600220</b>			-
<b>5791600620</b>			1); 2); 3)
<b>5791605220</b>			-
5791605270			-
<b>5791605280</b>			-
5791605680			3)
5796600210			-
<b>5796600220</b>			-
5796600620			1); 2); 3)
5796605220			-
5796605270			-
5796605280			-
5796605680			3)
<b>5792600210</b>			-
<b>5792600220</b>			-
<b>5792600620</b>			1); 2); 3)
<b>5792605220</b>			-
5792605270			-
<b>5792605280</b>			-
5792605680			3)

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 2,1 W

3) LED status display : Red

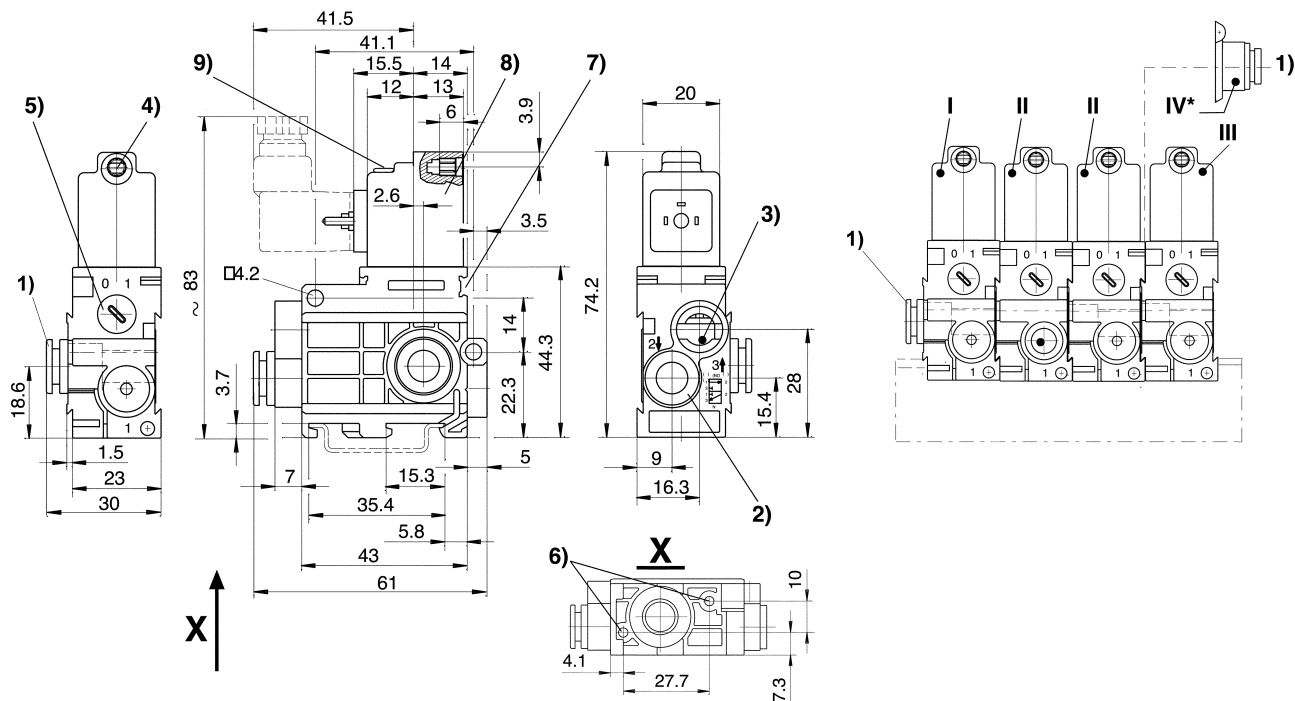
Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar



## Directional valves → Electrically operated

**3/2-way valve, Series 579**

►  $Q_n = 850 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NC

**Dimensions**

D579\_051

- 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  $180^\circ$  intervals
- 9) LED

\* 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.

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NO



P579\_460

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

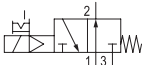

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NO

		MO	Compressed air connection		Operating voltage			Flow rate value	Weight	Note	Part No.
			Input	Output	DC	AC 50 Hz	AC 60 Hz	Qn			
								[l/min]	[kg]		
	NO		Ø 6x1	Ø 6x1	12 V	-	-	520	0.093	-	5794410210
			Ø 6x1	Ø 6x1	24 V	-	-	520		-	<b>5794410220</b>
			Ø 6x1	Ø 6x1	24 V	-	-	520		1); 2); 3)	5794410620
			Ø 6x1	Ø 6x1	-	24 V	24 V	520		-	<b>5794415220</b>
			Ø 6x1	Ø 6x1	-	110 V	110 V	520		-	5794415270
			Ø 6x1	Ø 6x1	-	230 V	230 V	520		-	5794415280
			Ø 6x1	Ø 6x1	-	230 V	230 V	520		3)	5794415680
			Ø 8x1	Ø 8x1	12 V	-	-	600		-	5794610210
			Ø 8x1	Ø 8x1	24 V	-	-	600		-	<b>5794610220</b>
			Ø 8x1	Ø 8x1	24 V	-	-	600		1); 2); 3)	5794610620
			Ø 8x1	Ø 8x1	-	24 V	24 V	600		-	5794615220
			Ø 8x1	Ø 8x1	-	110 V	110 V	600		-	5794615270
			Ø 8x1	Ø 8x1	-	230 V	230 V	600		-	<b>5794615280</b>
			Ø 8x1	Ø 8x1	-	230 V	230 V	600		3)	5794615680

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

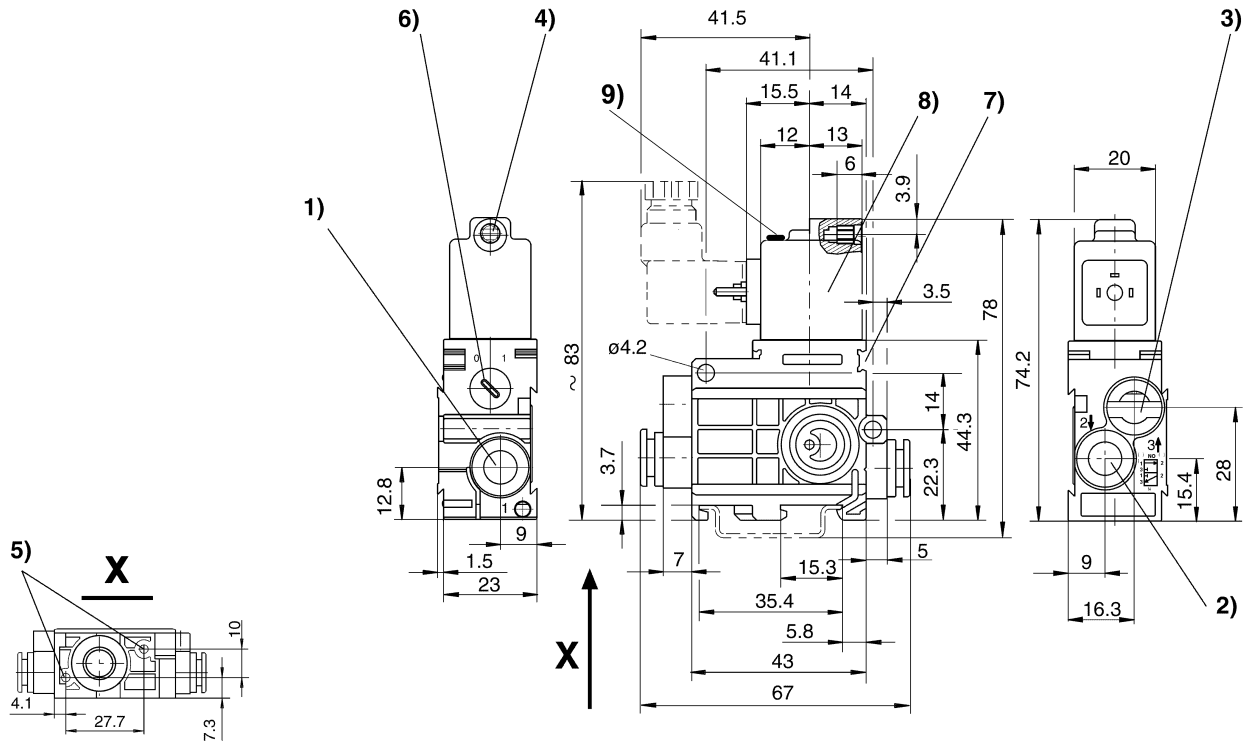
3) LED status display : Red

Nominal flow Qn at 6 bar and Δp = 1 bar

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

►  $Q_n = 520 - 600 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1 - \varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NO

**Dimensions**

D579\_460

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

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

►  $Q_n = 520 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO



P579\_051

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	See table below
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 $\mu\text{m}$
Oil content of compressed air	0 mg/m <sup>3</sup> - 1 mg/m <sup>3</sup>
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- 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

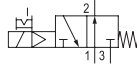

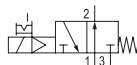

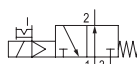

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2



## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO

		MO	Blocking principle	Compressed air connection		Operating voltage			Part No.
				Input	Output	DC	AC 50 Hz	AC 60 Hz	
	NO		Inlet valve	Ø 8x1	Ø 6x1	12 V	-	-	5790510210
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790510220</b>
			Inlet valve	Ø 8x1		-	24 V	24 V	<b>5790515220</b>
			Inlet valve	Ø 8x1		24 V	-	-	5790510620
			Inlet valve	Ø 8x1		-	110 V	110 V	5790515270
			Inlet valve	Ø 8x1		-	230 V	230 V	5790515280
			Inlet valve	Ø 8x1		-	230 V	230 V	5790515680
			Stacking valve	-		12 V	-	-	5791510210
			Stacking valve	-		24 V	-	-	<b>5791510220</b>
			Stacking valve	-		24 V	-	-	<b>5791510620</b>
			Stacking valve	-		-	24 V	24 V	5791515220
			Stacking valve	-		-	110 V	110 V	5791515270
			Stacking valve	-		-	230 V	230 V	5791515280
			Stacking valve	-		-	230 V	230 V	5791515680
	NO		Stacking valve, add. compressed air port	Ø 6x1	Ø 6x1	12 V	-	-	5796410210
				Ø 8x1		12 V	-	-	5796510210
				Ø 6x1		24 V	-	-	5796410220
				Ø 8x1		24 V	-	-	5796510220
				Ø 6x1		24 V	-	-	5796410620
				Ø 8x1		24 V	-	-	5796510620
				Ø 6x1		-	24 V	24 V	5796415220
				Ø 8x1		-	24 V	24 V	5796515220
				Ø 6x1		-	110 V	110 V	5796415270
				Ø 8x1		-	110 V	110 V	5796515270
				Ø 6x1		-	230 V	230 V	5796415280
				Ø 8x1		-	230 V	230 V	5796515280
				Ø 6x1		-	230 V	230 V	5796415680
				Ø 8x1		-	230 V	230 V	5796515680
	NO		End valve	-	Ø 6x1	12 V	-	-	5792510210
				24 V		-	-	<b>5792510220</b>	
				24 V		-	-	5792510620	
				-		24 V	24 V	5792515220	
				-		110 V	110 V	5792515270	
				-		230 V	230 V	5792515280	
				-		230 V	230 V	5792515680	

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO

Part No.	Flow rate value	Control pressure min./max.	Weight	Note
	Qn			
	[l/min]	[bar]	[kg]	
5790510210	520	2 / 8	0.093	-
<b>5790510220</b>		2 / 8		-
<b>5790515220</b>		2 / 8		-
5790510620		2 / 8		1); 2); 3)
5790515270		2 / 8		-
5790515280		2 / 8		-
5790515680		2 / 8		3)
5791510210		-- / 8		-
<b>5791510220</b>		-- / 8		-
<b>5791510620</b>		-- / 8		1); 2); 3)
5791515220		-- / 8		-
5791515270		-- / 8		-
5791515280		-- / 8		-
5791515680		-- / 8		3)
5796410210	520	2 / 8	0.093	-
5796510210				-
5796410220				-
5796510220				-
5796410620				1); 2); 3)
5796510620				1); 2); 3)
5796415220				-
5796515220				-
5796415270				-
5796515270				-
5796415280				-
5796515280				-
5796415680				3)
5796515680				3)
5792510210	520	2 / 8	0.093	-
<b>5792510220</b>				-
5792510620				1); 2); 3)
5792515220				-
5792515270				-
5792515280				-
5792515680				3)

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) with LED

3) LED status display : Red

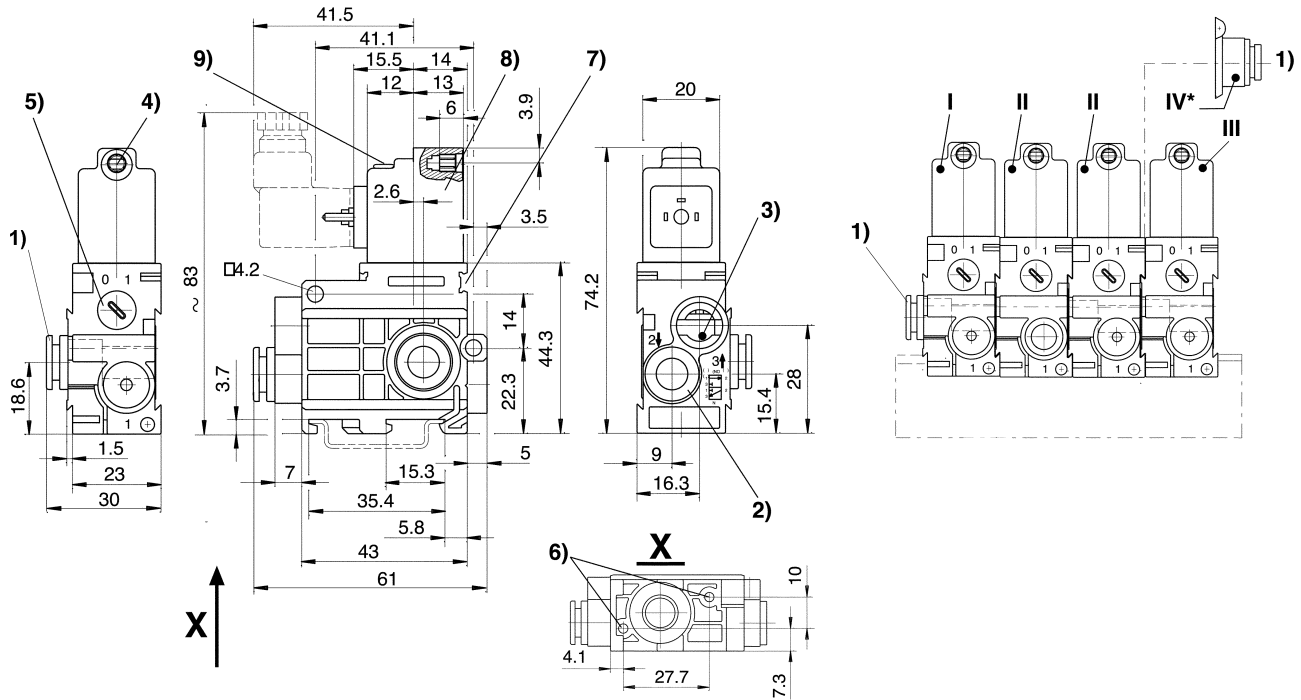
Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

MO = Manual override

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

►  $Q_n = 520 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO

**Dimensions**

- 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  $180^\circ$  intervals
- 9) LED

\* 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.

D579\_051\_a

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO



P579\_051

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	See table below
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

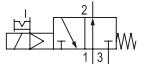

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO

		MO	Blocking principle	Compressed air connection		Operating voltage			Part No.
				Input	Output	DC	AC 50 Hz	AC 60 Hz	
	NO		Inlet valve	Ø 8x1		12 V	-	-	<b>5790610210</b>
			Inlet valve	Ø 8x1		-	24 V	24 V	<b>5790615220</b>
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790610220</b>
			Inlet valve	Ø 8x1		24 V	-	-	5790610620
			Inlet valve	Ø 8x1		-	110 V	110 V	5790615270
			Inlet valve	Ø 8x1		-	230 V	230 V	5790615280
			Inlet valve	Ø 8x1		-	230 V	230 V	5790615680
			Stacking valve	-		12 V	-	-	<b>5791610210</b>
			Stacking valve	-		24 V	-	-	<b>5791610220</b>
			Stacking valve	-		24 V	-	-	5791610620
			Stacking valve	-		-	24 V	24 V	5791615220
			Stacking valve	-		-	110 V	110 V	5791615270
			Stacking valve	-		-	230 V	230 V	5791615280
			Stacking valve	-		-	230 V	230 V	5791615680
			Stacking valve, add. compressed air port	Ø 8x1		12 V	-	-	5796610210
			Stacking valve, add. compressed air port	Ø 8x1	Ø 8x1	24 V	-	-	<b>5796610220</b>
			Stacking valve, add. compressed air port	Ø 8x1		24 V	-	-	5796610620
			Stacking valve, add. compressed air port	Ø 8x1		-	24 V	24 V	5796615220
			Stacking valve, add. compressed air port	Ø 8x1		-	110 V	110 V	5796615270
			Stacking valve, add. compressed air port	Ø 8x1		-	230 V	230 V	5796615280
			Stacking valve, add. compressed air port	Ø 8x1		-	230 V	230 V	5796615680
			End valve	-		12 V	-	-	5792610210
			End valve	-		24 V	-	-	<b>5792610220</b>
			End valve	-		24 V	-	-	5792610620
			End valve	-		-	24 V	24 V	5792615220
			End valve	-		-	110 V	110 V	5792615270
			End valve	-		-	230 V	230 V	5792615280
			End valve	-		-	230 V	230 V	5792615680

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO

Part No.	Flow rate value	Control pressure min./max.	Weight	Note
	Qn			
	[l/min]	[bar]	[kg]	
<b>5790610210</b>	600	2 / 8	0.093	-
<b>5790615220</b>		2 / 8		-
<b>5790610220</b>		2 / 8		-
5790610620		2 / 8		1); 2); 3)
5790615270		2 / 8		-
5790615280		2 / 8		-
5790615680		2 / 8		3)
<b>5791610210</b>		-- / 8		-
<b>5791610220</b>		-- / 8		-
5791610620		-- / 8		1); 2); 3)
5791615220		-- / 8		-
5791615270		-- / 8		-
5791615280		-- / 8		-
5791615680		-- / 8		3)
5796610210		2 / 8		-
<b>5796610220</b>		2 / 8		-
5796610620		2 / 8		1); 2); 3)
5796615220		2 / 8		-
5796615270		2 / 8		-
5796615280		2 / 8		-
5796615680		2 / 8		3)
5792610210		2 / 8		-
<b>5792610220</b>		2 / 8		-
5792610620		2 / 8		1); 2); 3)
5792615220		2 / 8		-
5792615270		2 / 8		-
5792615280		2 / 8		-
5792615680		2 / 8		3)

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) with LED

3) LED status display : Red

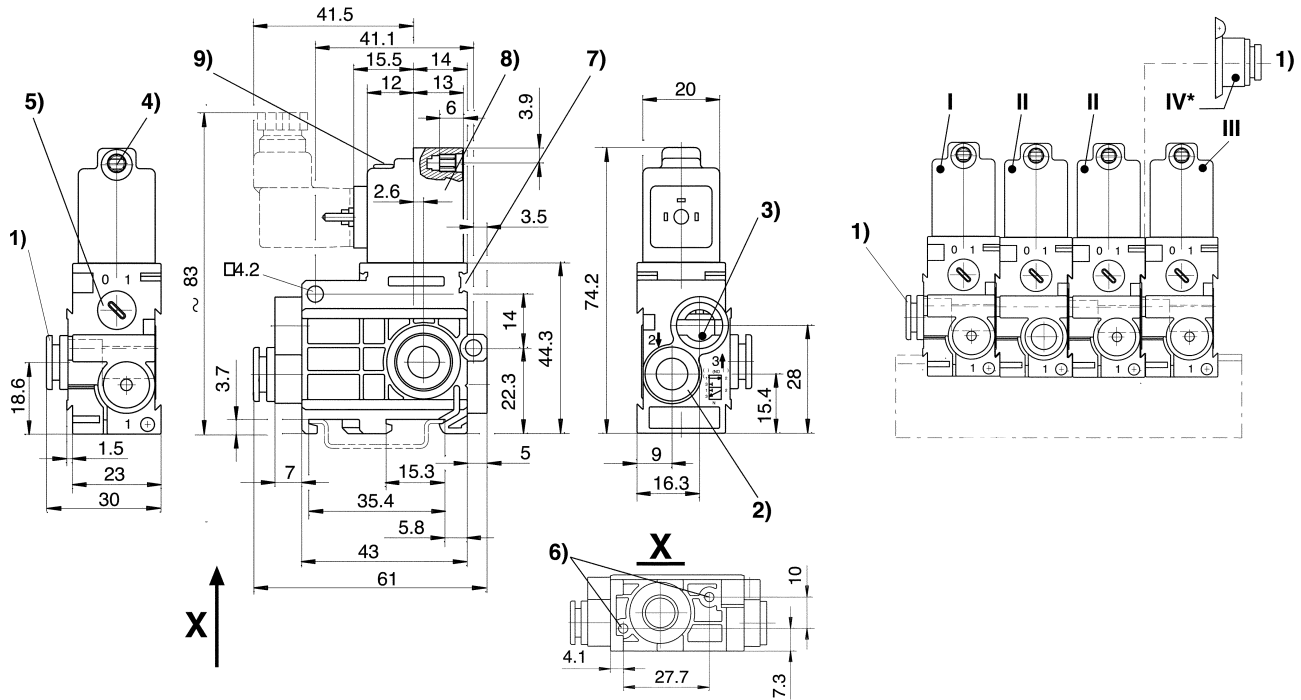
Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

MO = Manual override

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

►  $Q_n = 600 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent ► NO

**Dimensions**

- 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  $180^\circ$  intervals
- 9) LED

\* 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.

D579\_051\_a

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 - 850 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NC, externally piloted



1003-031

Version	Poppet valve
Pilot	external
Sealing principle	soft sealing
Working pressure min./max.	0.5 bar / 8 bar
Control pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- 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

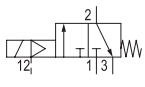
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2



## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 - 850 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NC, externally piloted

		Compressed air connection			Operating voltage			Flow rate value	Weight	Note	Part No.
		Input	Output	Pilot connection	DC	AC 50 Hz	AC 60 Hz	Qn			
								[l/min]	[kg]		
	NC	Ø 6x1	Ø 6x1	Ø 4	12 V	-	-	520	0.093	-	5794470210
		-	Ø 6x1		24 V	-	-	520		-	<b>5794470220</b>
		Ø 6x1	Ø 6x1		24 V	-	-	520		1); 2); 3)	5794470620
		Ø 6x1	Ø 6x1		-	24 V	24 V	520		-	5794475220
		Ø 6x1	Ø 6x1		-	110 V	110 V	520		-	5794475270
		Ø 6x1	Ø 6x1		-	230 V	230 V	520		-	5794475280
		Ø 6x1	Ø 6x1		-	230 V	230 V	520		3)	5794475680
		Ø 8x1	Ø 8x1		12 V	-	-	850		-	5794670210
		Ø 8x1	Ø 8x1		24 V	-	-	850		-	<b>5794670220</b>
		Ø 8x1	Ø 8x1		24 V	-	-	850		1); 2); 3)	5794670620
		Ø 8x1	Ø 8x1		-	24 V	24 V	850		-	5794675220
		Ø 8x1	Ø 8x1		-	110 V	110 V	850		-	5794675270
		Ø 8x1	Ø 8x1		-	230 V	230 V	850		-	5794675280
		Ø 8x1	Ø 8x1		-	230 V	230 V	850		3)	5794675680

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

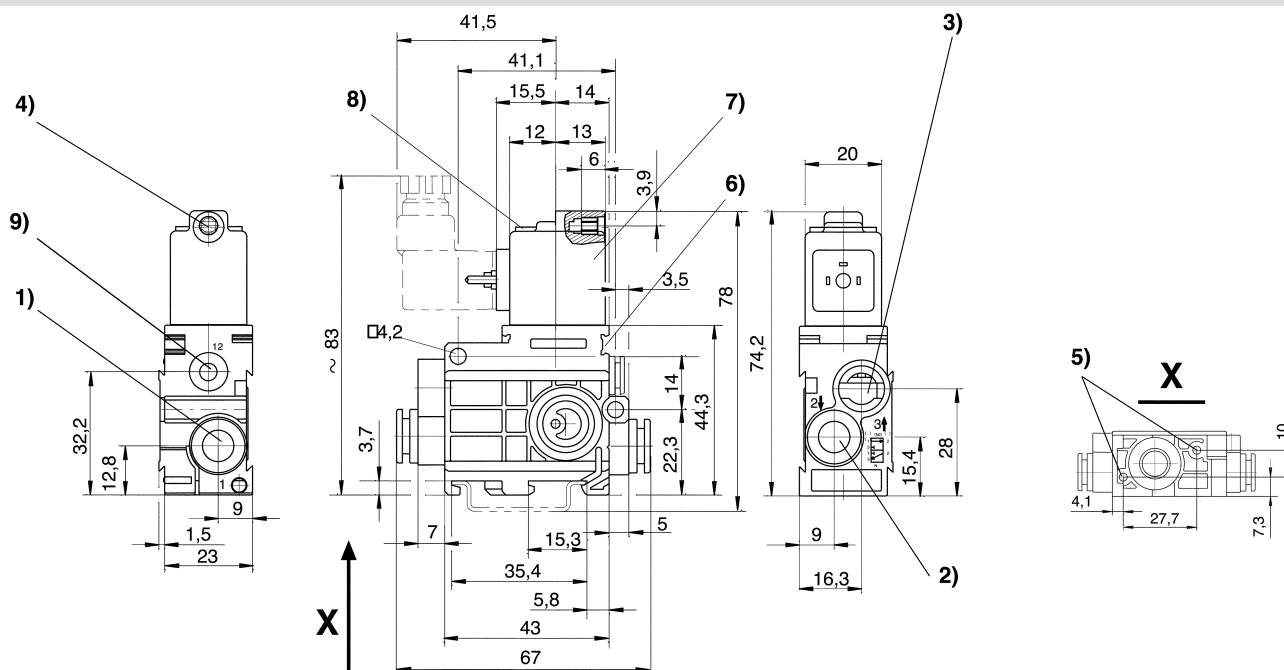
3) LED status display : Red

Nominal flow Qn at 6 bar and Δp = 1 bar

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

►  $Q_n = 520 - 850 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1 - \varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NC, externally piloted

**Dimensions**

- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core  $\varnothing$  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  $180^\circ$  intervals
- 8) LED
- 9) Port 12

D579\_467

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted



P579\_067

Version	Poppet valve
Pilot	external
Sealing principle	soft sealing
Working pressure min./max.	0.5 bar / 8 bar
Control pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

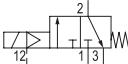
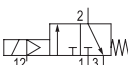
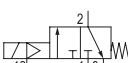
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted

		Blocking principle	Compressed air connection			Operating voltage			Part No.
			Input	Output	Pilot connection	DC	AC 50 Hz	AC 60 Hz	
	NC	Inlet valve	Ø 8x1	Ø 6x1	Ø 4	12 V	-	-	5790570210
		Inlet valve	Ø 8x1			24 V	-	-	5790570220
		Inlet valve	Ø 8x1			24 V	-	-	5790570620
		Inlet valve	Ø 8x1			-	24 V	24 V	5790575220
		Inlet valve	Ø 8x1			-	110 V	110 V	5790575270
		Inlet valve	Ø 8x1			-	230 V	230 V	5790575280
		Inlet valve	Ø 8x1			-	230 V	230 V	5790575680
		Stacking valve	-			12 V	-	-	5791570210
		Stacking valve	-			24 V	-	-	5791570220
		Stacking valve	-			24 V	-	-	5791570620
		Stacking valve	-			-	24 V	24 V	5791575220
		Stacking valve	-			-	110 V	110 V	5791575270
		Stacking valve	-			-	230 V	230 V	5791575280
		Stacking valve	-			-	230 V	230 V	5791575680
	NC	Stacking valve, add. compressed air port	Ø 6x1	Ø 6x1	Ø 4	12 V	-	-	5796470210
			Ø 8x1			12 V	-	-	5796570210
			Ø 6x1			24 V	-	-	5796470220
			Ø 8x1			24 V	-	-	5796570220
			Ø 6x1			24 V	-	-	5796470620
			Ø 8x1			24 V	-	-	5796570620
			Ø 6x1			-	24 V	24 V	5796475220
			Ø 8x1			-	24 V	24 V	5796575220
			Ø 6x1			-	110 V	110 V	5796475270
			Ø 8x1			-	110 V	110 V	5796575270
			Ø 6x1			-	230 V	230 V	5796475280
			Ø 8x1			-	230 V	230 V	5796575280
			Ø 6x1			-	230 V	230 V	5796475680
			Ø 8x1			-	230 V	230 V	5796575680
	NC	End valve	-	Ø 6x1	Ø 4	12 V	-	-	5792570210
			-			24 V	-	-	5792570220
			-			24 V	-	-	5792570620
			-			-	24 V	24 V	5792575220
			-			-	110 V	110 V	5792575270
			-			-	230 V	230 V	5792575280
			-			-	230 V	230 V	5792575680
			-			-	230 V	230 V	5792575680

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted

Part No.	Flow rate value	Weight	Note
	Qn		
	[l/min]	[kg]	
5790570210	520	0.093	-
5790570220			-
5790570620			1); 2); 3)
5790575220			-
5790575270			-
5790575280			-
5790575680			3)
5791570210			-
5791570220			-
5791570620			1); 2); 3)
5791575220			-
5791575270			-
5791575280			-
5791575680			3)
5796470210	520	0.093	-
5796570210			-
5796470220			-
5796570220			-
5796470620			1); 2); 3)
5796570620			1); 2); 3)
5796475220			-
5796575220			-
5796475270			-
5796575270			-
5796475280			-
5796575280			-
5796475680			3)
5796575680			3)
5792570210	520	0.093	-
5792570220			-
5792570620			1); 2); 3)
5792575220			-
5792575270			-
5792575280			-
5792575680			3)

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

2) with LED

3) LED status display : Red

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

### 3/2-way valve, Series 579

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted

[illegible]

- 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.

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 850 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted



P579\_067

Version	Poppet valve
Pilot	external
Sealing principle	soft sealing
Working pressure min./max.	0.5 bar / 8 bar
Control pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

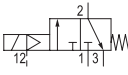
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 850 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted

		Blocking principle	Compressed air connection			Operating voltage			Part No.
			Input	Output	Pilot connection	DC	AC 50 Hz	AC 60 Hz	
	NC	Inlet valve	Ø 8x1			12 V	-	-	5790670210
		Inlet valve	Ø 8x1			24 V	-	-	<b>5790670220</b>
		Inlet valve	Ø 8x1			24 V	-	-	5790670620
		Inlet valve	Ø 8x1			-	24 V	24 V	5790675220
		Inlet valve	Ø 8x1			-	110 V	110 V	5790675270
		Inlet valve	Ø 8x1			-	230 V	230 V	5790675280
		Inlet valve	Ø 8x1			-	230 V	230 V	5790675680
		Stacking valve	-			12 V	-	-	5791670210
		Stacking valve	-			24 V	-	-	<b>5791670220</b>
		Stacking valve	-			24 V	-	-	5791670620
		Stacking valve	-			-	24 V	24 V	5791675220
		Stacking valve	-			-	110 V	110 V	5791675270
		Stacking valve	-			-	230 V	230 V	5791675280
		Stacking valve	-			-	230 V	230 V	5791675680
		Stacking valve, add. compressed air port	Ø 8x1			12 V	-	-	5796670210
		Stacking valve, add. compressed air port	Ø 8x1	Ø 8x1	Ø 4	24 V	-	-	5796670220
		Stacking valve, add. compressed air port	Ø 8x1			24 V	-	-	5796670620
		Stacking valve, add. compressed air port	Ø 8x1			-	24 V	24 V	5796675220
		Stacking valve, add. compressed air port	Ø 8x1			-	110 V	110 V	5796675270
		Stacking valve, add. compressed air port	Ø 8x1			-	230 V	230 V	5796675280
		Stacking valve	Ø 8x1			-	230 V	230 V	5796675680
		End valve	-			12 V	-	-	5792670210
		End valve	-			24 V	-	-	<b>5792670220</b>
		End valve	-			24 V	-	-	5792670620
		End valve	-			-	24 V	24 V	5792675220
		End valve	-			-	110 V	110 V	5792675270
		End valve	-			-	230 V	230 V	5792675280
		End valve	-			-	230 V	230 V	5792675680



## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 850 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted

Part No.	Flow rate value	Weight	Note
	Qn		
	[l/min]	[kg]	
5790670210	850	0.093	-
<b>5790670220</b>			-
5790670620			1); 2); 3)
5790675220			-
5790675270			-
5790675280			-
5790675680			3)
5791670210			-
<b>5791670220</b>			-
5791670620			1); 2); 3)
5791675220			-
5791675270			-
5791675280			-
5791675680			3)
5796670210			-
5796670220			-
5796670620			1); 2); 3)
5796675220			-
5796675270			-
5796675280			-
5796675680			3)
5792670210			-
<b>5792670220</b>			-
5792670620			1); 2); 3)
5792675220			-
5792675270			-
5792675280			-
5792675680			3)

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

2) with LED

3) LED status display : Red

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

### 3/2-way valve, Series 579

► Qn = 850 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NC, externally piloted

[illegible]

- 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.

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NO, externally piloted



1003-031

Version	Poppet valve
Pilot	external
Sealing principle	soft sealing
Working pressure min./max.	0.5 bar / 8 bar
Control pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

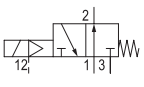
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NO, externally piloted

		Compressed air connection			Operating voltage			Flow rate value	Weight	Note	Part No.
		Input	Output	Pilot connection	DC	AC 50 Hz	AC 60 Hz	Qn			
								[l/min]	[kg]		
	NO	Ø 6x1	Ø 6x1	Ø 4	12 V	-	-	520	0.093	-	5794420210
		Ø 6x1	Ø 6x1		24 V	-	-	520		-	5794420220
		Ø 6x1	Ø 6x1		24 V	-	-	520		1); 2); 3)	5794420620
		Ø 6x1	Ø 6x1		-	24 V	24 V	520		-	5794425220
		Ø 6x1	Ø 6x1		-	110 V	110 V	520		-	5794425270
		Ø 6x1	Ø 6x1		-	230 V	230 V	520		-	5794425280
		Ø 6x1	Ø 6x1		-	230 V	230 V	520		3)	5794425680
		Ø 8x1	Ø 8x1		12 V	-	-	600		-	5794620210
		Ø 8x1	Ø 8x1		24 V	-	-	600		-	<b>5794620220</b>
		Ø 8x1	Ø 8x1		24 V	-	-	600		1); 2); 3)	5794620620
		Ø 8x1	Ø 8x1		-	24 V	24 V	600		-	5794625220
		Ø 8x1	Ø 8x1		-	110 V	110 V	600		-	5794625270
		Ø 8x1	Ø 8x1		-	230 V	230 V	600		-	5794625280
		Ø 8x1	Ø 8x1		-	230 V	230 V	600		3)	5794625680

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

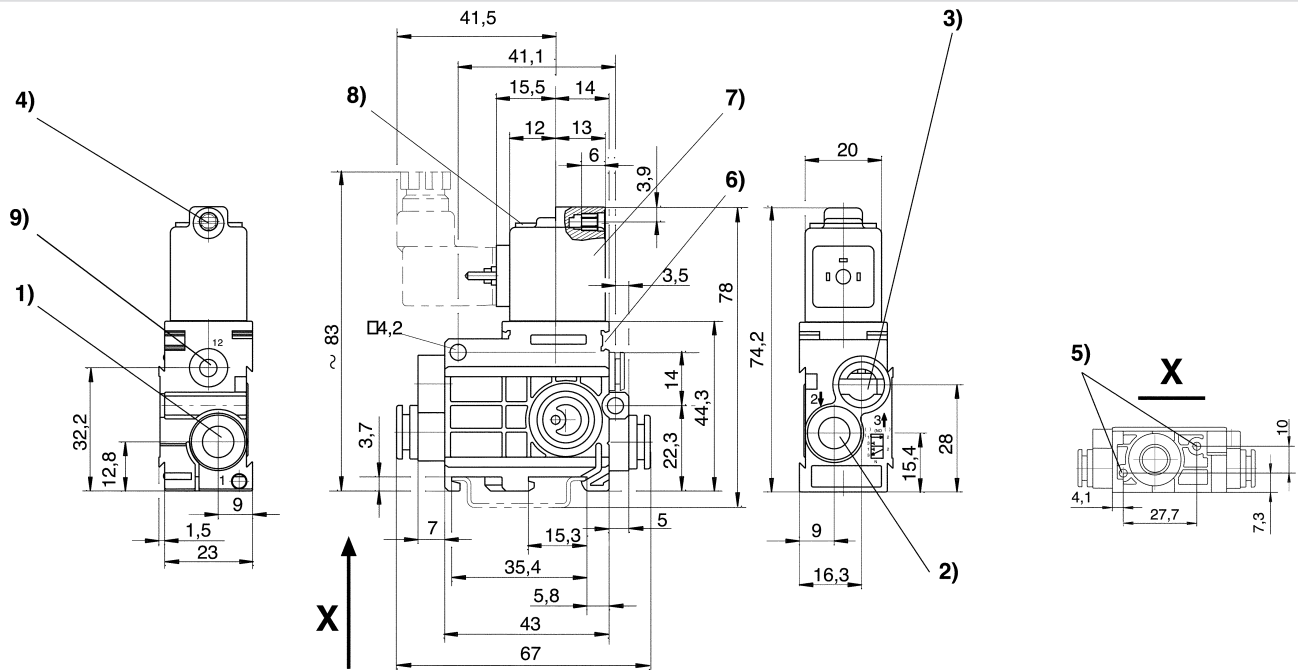
3) LED status display : Red

Nominal flow Qn at 6 bar and Δp = 1 bar

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

►  $Q_n = 520 - 600 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1 - \varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NO, externally piloted

**Dimensions**

D579\_467

- 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

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted



P579\_067

Version	Poppet valve
Pilot	external
Sealing principle	soft sealing
Working pressure min./max.	0.5 bar / 8 bar
Control pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

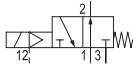
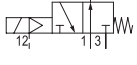
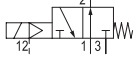
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted

		Blocking principle	Compressed air connection			Operating voltage			Part No.
			Input	Output	Pilot connection	DC	AC 50 Hz	AC 60 Hz	
	NO	Inlet valve	Ø 8x1	Ø 6x1	Ø 4	12 V	-	-	5790520210
		Inlet valve	Ø 8x1			24 V	-	-	5790520220
		Inlet valve	Ø 8x1			24 V	-	-	5790520620
		Inlet valve	Ø 8x1			-	24 V	24 V	5790525220
		Inlet valve	Ø 8x1			-	110 V	110 V	5790525270
		Inlet valve	Ø 8x1			-	230 V	230 V	5790525280
		Inlet valve	Ø 8x1			-	230 V	230 V	5790525680
		Stacking valve	-			12 V	-	-	5791520210
		Stacking valve	-			24 V	-	-	5791520220
		Stacking valve	-			24 V	-	-	5791520620
		Stacking valve	-			-	24 V	24 V	5791525220
		Stacking valve	-			-	110 V	110 V	5791525270
		Stacking valve	-			-	230 V	230 V	5791525280
		Stacking valve	-			-	230 V	230 V	5791525680
	NO	Stacking valve, add. compressed air port	Ø 6x1	Ø 6x1	Ø 4	12 V	-	-	5796420210
			Ø 8x1			12 V	-	-	5796520210
			Ø 6x1			24 V	-	-	5796420220
			Ø 8x1			24 V	-	-	5796520220
			Ø 6x1			24 V	-	-	5796420620
			Ø 8x1			24 V	-	-	5796520620
			Ø 6x1			-	24 V	24 V	5796425220
			Ø 8x1			-	24 V	24 V	5796525220
			Ø 6x1			-	110 V	110 V	5796425270
			Ø 8x1			-	110 V	110 V	5796525270
			Ø 6x1			-	230 V	230 V	5796425280
			Ø 8x1			-	230 V	230 V	5796525280
			Ø 6x1			-	230 V	230 V	5796425680
			Ø 8x1			-	230 V	230 V	5796525680
	NO	End valve	-	Ø 6x1	Ø 4	12 V	-	-	5792520210
			-			24 V	-	-	5792520220
			-			24 V	-	-	5792520620
			-			-	24 V	24 V	5792525220
			-			-	110 V	110 V	5792525270
			-			-	230 V	230 V	5792525280
			-			-	230 V	230 V	5792525680
			-			-	230 V	230 V	5792525680

**Directional valves → Electrically operated****3/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted

Part No.	Flow rate value	Weight	Note
	Qn		
	[l/min]	[kg]	
5790520210	520	0.093	-
5790520220			-
5790520620			1); 2); 3)
5790525220			-
5790525270			-
5790525280			-
5790525680			3)
5791520210			-
5791520220			-
5791520620			1); 2); 3)
5791525220			-
5791525270			-
5791525280			-
5791525680			3)
5796420210	520	0.093	-
5796520210			-
5796420220			-
5796520220			-
5796420620			1); 2); 3)
5796520620			1); 2); 3)
5796425220			-
5796525220			-
5796425270			-
5796525270			-
5796425280			-
5796525280			-
5796425680			3)
5796525680			3)
5792520210	520	0.093	-
5792520220			-
5792520620			1); 2); 3)
5792525220			-
5792525270			-
5792525280			-
5792525680			3)

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) with LED

3) LED status display : Red

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

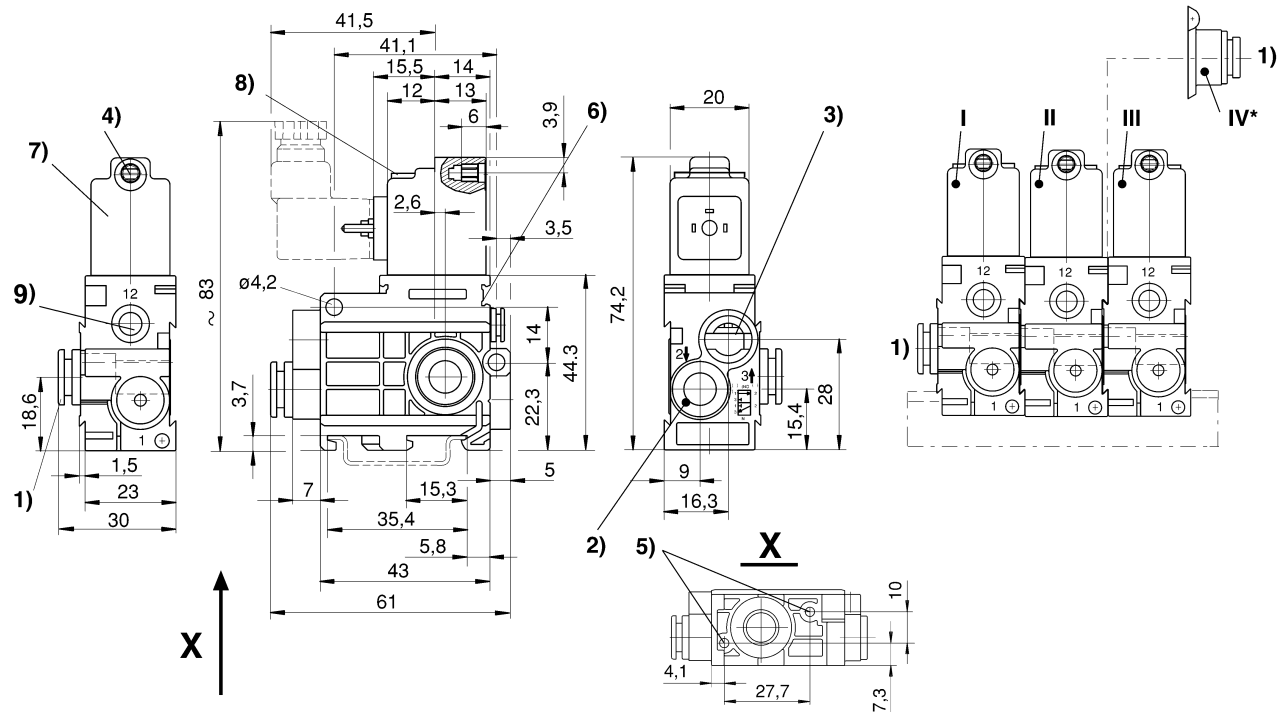


**Directional valves → Electrically operated**

### 3/2-way valve, Series 579

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted

## 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.

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted



P579\_067

Version	Poppet valve
Pilot	external
Sealing principle	soft sealing
Working pressure min./max.	0.5 bar / 8 bar
Control pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

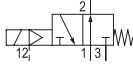
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted

		Blocking principle	Compressed air connection			Operating voltage			Part No.
			Input	Output	Pilot connection	DC	AC 50 Hz	AC 60 Hz	
	NO	Inlet valve	Ø 8x1			12 V	-	-	5790620210
		Inlet valve	Ø 8x1			24 V	-	-	5790620220
		Inlet valve	Ø 8x1			24 V	-	-	5790620620
		Inlet valve	Ø 8x1			-	24 V	24 V	5790625220
		Inlet valve	Ø 8x1			-	110 V	110 V	5790625270
		Inlet valve	Ø 8x1			-	230 V	230 V	5790625280
		Inlet valve	Ø 8x1			-	230 V	230 V	5790625680
		Stacking valve	-			12 V	-	-	5791620210
		Stacking valve	-			24 V	-	-	5791620220
		Stacking valve	-			24 V	-	-	5791620620
		Stacking valve	-			-	24 V	24 V	5791625220
		Stacking valve	-			-	110 V	110 V	5791625270
		Stacking valve	-			-	230 V	230 V	5791625280
		Stacking valve	-			-	230 V	230 V	5791625680
		Stacking valve, add. compressed air port	Ø 8x1			12 V	-	-	5796620210
		Stacking valve, add. compressed air port	Ø 8x1	Ø 8x1	Ø 4	24 V	-	-	5796620220
		Stacking valve, add. compressed air port	Ø 8x1			24 V	-	-	5796620620
		Stacking valve, add. compressed air port	Ø 8x1			-	24 V	24 V	5796625220
		Stacking valve, add. compressed air port	Ø 8x1			-	110 V	110 V	5796625270
		Stacking valve, add. compressed air port	Ø 8x1			-	230 V	230 V	5796625280
		Stacking valve, add. compressed air port	Ø 8x1			-	230 V	230 V	5796625680
		End valve	-			12 V	-	-	5792620210
		End valve	-			24 V	-	-	5792620220
		End valve	-			24 V	-	-	5792620620
		End valve	-			-	24 V	24 V	5792625220
		End valve	-			-	110 V	110 V	5792625270
		End valve	-			-	230 V	230 V	5792625280
		End valve	-			-	230 V	230 V	5792625680

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted

Part No.	Flow rate value	Weight	Note
	Qn		
	[l/min]	[kg]	
5790620210	600	0.093	-
5790620220			-
5790620620			1); 2); 3)
5790625220			-
5790625270			-
5790625280			-
5790625680			3)
5791620210			-
5791620220			-
5791620620			1); 2); 3)
5791625220			-
5791625270			-
5791625280			-
5791625680			3)
5796620210			-
5796620220			-
5796620620			1); 2); 3)
5796625220			-
5796625270			-
5796625280			-
5796625680			3)
5792620210			-
5792620220			-
5792620620			1); 2); 3)
5792625220			-
5792625270			-
5792625280			-
5792625680			3)

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) with LED

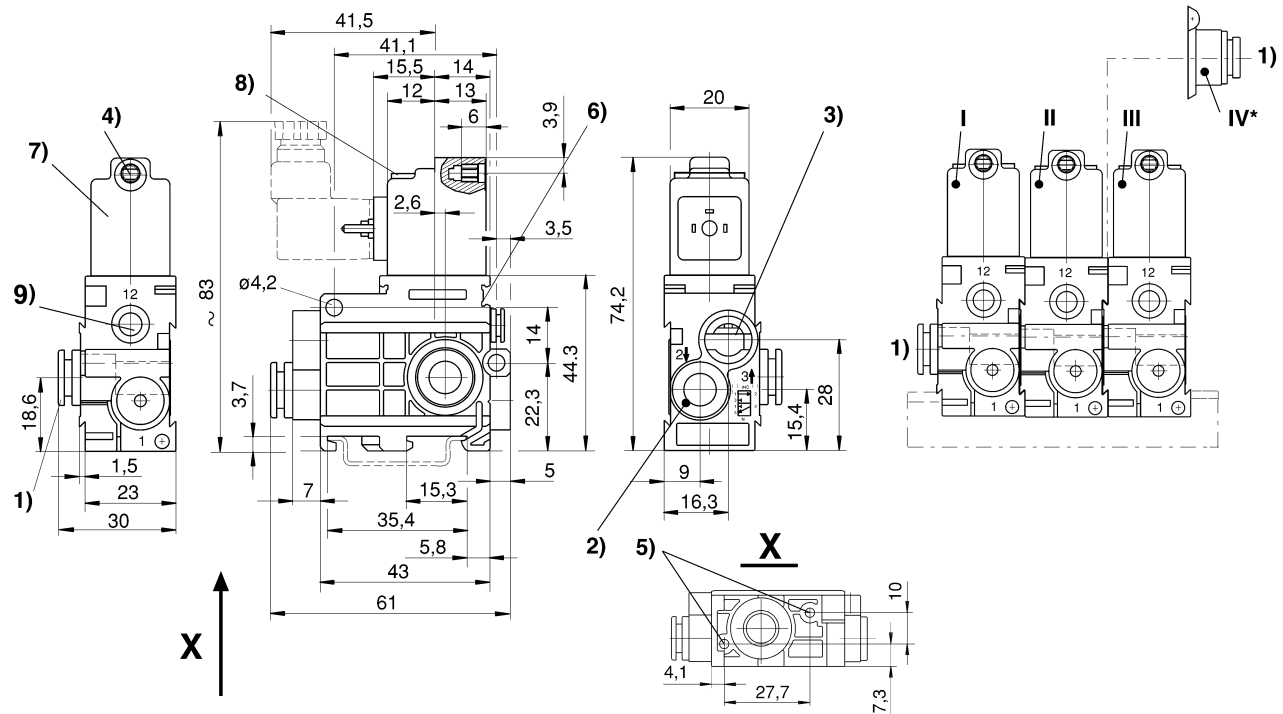
3) LED status display : Red

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

## Directional valves → Electrically operated

**3/2-way valve, Series 579**

►  $Q_n = 600 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► NO, externally piloted

**Dimensions**

D579\_067

- 1) Port 1
- 2) Port 2
- 3) Port 3, exhaust air must not be throttled
- 4) Core  $\varnothing$  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  $180^\circ$  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.

Directional valves → Electrically operated

5/2-way valve, Series 579

► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent



P579\_470

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	-- / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	27 ms
Switch-off time	28 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

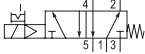

Technical Remarks										
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.										
■ The oil content of air pressure must remain constant during the life cycle.										
■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.										
■ 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										

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**5/2-way valve, Series 579**

► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent

		MO	Compressed air connection		Operating voltage			Flow rate value	Weight	Note	Part No.
			Input	Output	DC	AC 50 Hz	AC 60 Hz	Qn			
								[l/min]	[kg]		
	NC		Ø 6x1	Ø 6x1	12 V	-	-	520	0.133	-	5794700210
			Ø 6x1	Ø 6x1	24 V	-	-	520		-	<b>5794700220</b>
			Ø 6x1	Ø 6x1	24 V	-	-	520		1); 2); 3)	5794700620
			Ø 6x1	Ø 6x1	-	24 V	24 V	520		-	5794705220
			Ø 6x1	Ø 6x1	-	110 V	110 V	520		-	5794705270
			Ø 6x1	Ø 6x1	-	230 V	230 V	520		-	5794705280
			Ø 6x1	Ø 6x1	-	230 V	230 V	520		3)	5794705680
			Ø 8x1	Ø 8x1	12 V	-	-	600		-	5794900210
			Ø 8x1	Ø 8x1	24 V	-	-	600		-	<b>5794900220</b>
			Ø 8x1	Ø 8x1	24 V	-	-	600		1); 2); 3)	5794900620
			Ø 8x1	Ø 8x1	-	24 V	24 V	600		-	5794905220
			Ø 8x1	Ø 8x1	-	110 V	110 V	600		-	5794905270
			Ø 8x1	Ø 8x1	-	230 V	230 V	600		-	5794905280
			Ø 8x1	Ø 8x1	-	230 V	230 V	600		3)	5794905680

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

3) LED status display : Red

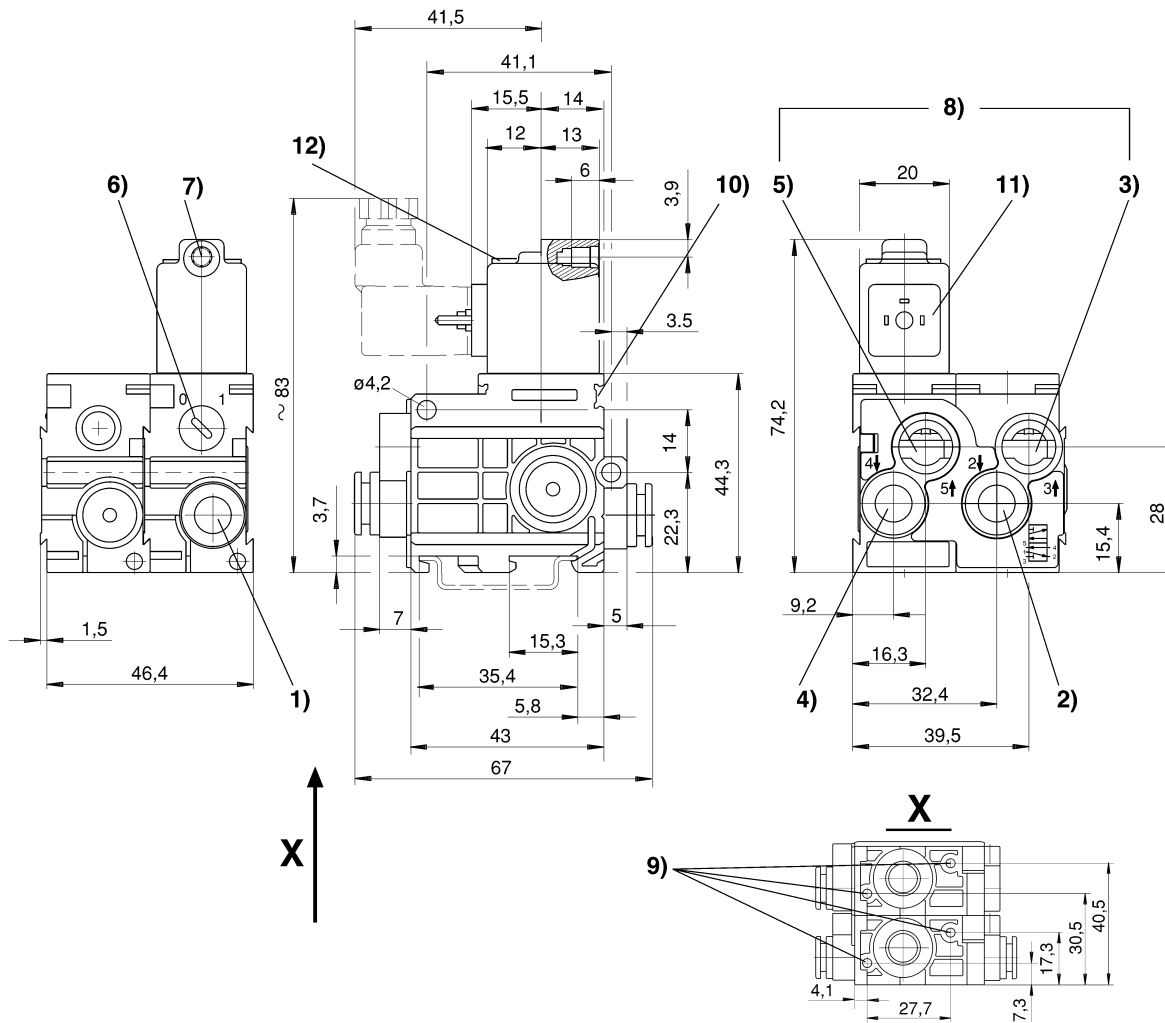
Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

## Directional valves → Electrically operated

**5/2-way valve, Series 579**

►  $Q_n = 520 - 600 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1 - \varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent

## Dimensions



D579\_470

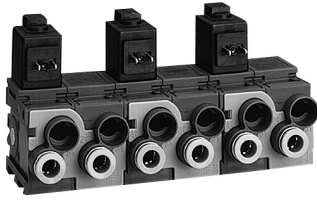
1) port 1 2) port 2 3) port 3 4) port 4 5) port 5 6) manual override 7) core  $\varnothing$  for M 5 8) exhaust air must not be throttled 9) pocket hole 6 mm deep for 3.5 self-tapping screw 10) mounting space for name plate 11) coil can be rotated at 180° intervals 12) LED



## Directional valves → Electrically operated

**5/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent



P579\_080

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	27 ms
Switch-off time	28 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

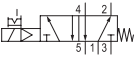

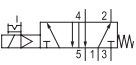

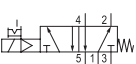

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**5/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent

		MO	Blocking principle	Compressed air connection		Operating voltage			Part No.
				Input	Output	DC	AC 50 Hz	AC 60 Hz	
	NC		Inlet valve	Ø 8x1	Ø 6x1	12 V	-	-	5790800210
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790800220</b>
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790800620</b>
			Inlet valve	Ø 8x1		-	24 V	24 V	<b>5790805220</b>
			Inlet valve	Ø 8x1		-	110 V	110 V	5790805270
			Inlet valve	Ø 8x1		-	230 V	230 V	5790805280
			Inlet valve	Ø 8x1		-	230 V	230 V	5790805680
			Stacking valve	-		-	24 V	24 V	<b>5791805220</b>
			Stacking valve	-		12 V	-	-	5791800210
			Stacking valve	-		24 V	-	-	<b>5791800220</b>
			Stacking valve	-		24 V	-	-	<b>5791800620</b>
			Stacking valve	-		-	110 V	110 V	5791805270
			Stacking valve	-		-	230 V	230 V	5791805280
			Stacking valve	-		-	230 V	230 V	5791805680
	NC		Stacking valve, add. compressed air port	Ø 8x1	Ø 6x1	-	24 V	24 V	5796805220
				Ø 6x1		-	24 V	24 V	<b>5796705220</b>
				Ø 6x1		12 V	-	-	5796700210
				Ø 8x1		12 V	-	-	5796800210
				Ø 6x1		24 V	-	-	5796700220
				Ø 8x1		24 V	-	-	5796800220
				Ø 6x1		24 V	-	-	5796700620
				Ø 8x1		24 V	-	-	5796800620
				Ø 6x1		-	110 V	110 V	5796705270
				Ø 8x1		-	110 V	110 V	5796805270
				Ø 6x1		-	230 V	230 V	5796705280
				Ø 8x1		-	230 V	230 V	5796805280
				Ø 6x1		-	230 V	230 V	5796705680
				Ø 8x1		-	230 V	230 V	5796805680
	NC		End valve	-	Ø 6x1	12 V	-	-	5792800210
						24 V	-	-	<b>5792800220</b>
						24 V	-	-	<b>5792800620</b>
						-	24 V	24 V	<b>5792805220</b>
						-	110 V	110 V	5792805270
						-	230 V	230 V	5792805280
						-	230 V	230 V	5792805680

## Directional valves → Electrically operated

**5/2-way valve, Series 579**

► Qn = 520 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent

Part No.	Flow rate value	Weight	Note
	Qn		
	[l/min]	[kg]	
5790800210	520	0.133	-
<b>5790800220</b>			-
<b>5790800620</b>			1); 2); 3)
<b>5790805220</b>			-
5790805270			-
5790805280			-
5790805680			3)
<b>5791805220</b>			-
5791800210			-
<b>5791800220</b>			-
<b>5791800620</b>			1); 2); 3)
5791805270			-
5791805280			-
5791805680			3)
5796805220	520	0.133	-
<b>5796705220</b>			-
5796700210			-
5796800210			-
5796700220			-
5796800220			-
5796700620			1); 2); 3)
5796800620			1); 2); 3)
5796705270			-
5796805270			-
5796705280			-
5796805280			-
5796705680			3)
5796805680			3)
5792800210	520	0.133	-
<b>5792800220</b>			-
<b>5792800620</b>			1); 2); 3)
<b>5792805220</b>			-
5792805270			-
5792805280			-
5792805680			3)

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

3) LED status display : Red

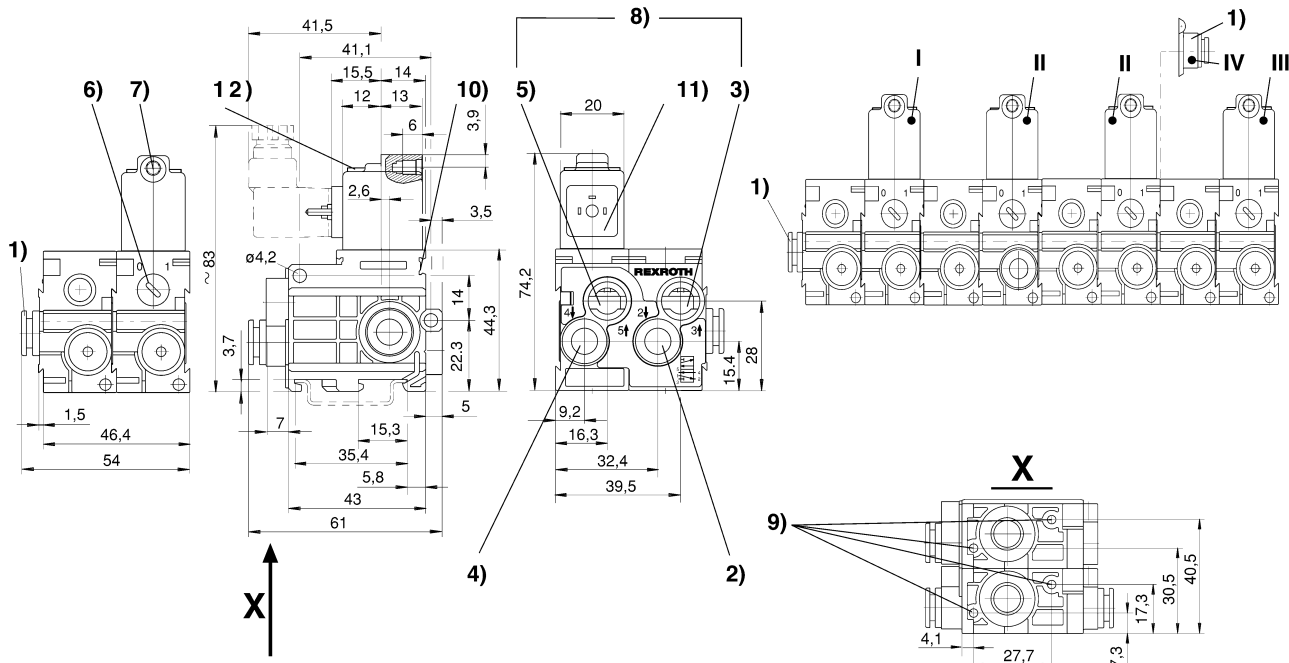
Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

MO = Manual override

## Directional valves → Electrically operated

**5/2-way valve, Series 579**

►  $Q_n = 520 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent

**Dimensions**

D579\_080

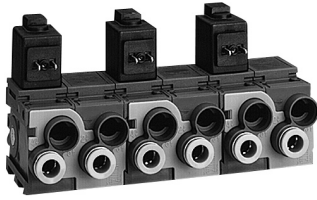
- 1) Port 1
- 2) Port 2
- 3) Port 3
- 4) Port 4
- 5) Port 5
- 6) Manual override
- 7) Core  $\varnothing$  for M5
- 8) Exhaust air must not be throttled
- 9) Pocket hole 6 mm deep for 3.5 self-tapping screw
- 10) mounting space for name plate
- 11) Coil can be rotated at  $180^\circ$  intervals
- 12)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

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

## Directional valves → Electrically operated

**5/2-way valve, Series 579**

► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent



P579\_080

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	2 bar / 8 bar
Control pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	27 ms
Switch-off time	28 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

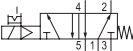

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**5/2-way valve, Series 579**

► Qn = 600 l/min ► pipe connection ► compressed air connection output: Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent

		MO	Blocking principle	Compressed air connection		Operating voltage			Part No.
				Input	Output	DC	AC 50 Hz	AC 60 Hz	
	NC		Inlet valve	Ø 8x1		12 V	-	-	<b>5790900210</b>
			Inlet valve	Ø 8x1		24 V	-	-	<b>5790900220</b>
			Inlet valve	Ø 8x1		24 V	-	-	5790900620
			Inlet valve	Ø 8x1		-	24 V	24 V	5790905220
			Inlet valve	Ø 8x1		-	110 V	110 V	5790905270
			Inlet valve	Ø 8x1		-	230 V	230 V	5790905280
			Inlet valve	Ø 8x1		-	230 V	230 V	5790905680
			Stacking valve	-		12 V	-	-	<b>5791900210</b>
			Stacking valve	-		24 V	-	-	<b>5791900220</b>
			Stacking valve	-		24 V	-	-	<b>5791900620</b>
			Stacking valve	-		-	24 V	24 V	5791905220
			Stacking valve	-		-	110 V	110 V	5791905270
			Stacking valve	-		-	230 V	230 V	5791905280
			Stacking valve	-		-	230 V	230 V	5791905680
			Stacking valve, add. compressed air port	Ø 8x1		12 V	-	-	5796900210
			Stacking valve, add. compressed air port	Ø 8x1	Ø 8x1	24 V	-	-	5796900220
			Stacking valve, add. compressed air port	Ø 8x1		24 V	-	-	5796900620
			Stacking valve, add. compressed air port	Ø 8x1		-	24 V	24 V	5796905220
			Stacking valve, add. compressed air port	Ø 8x1		-	110 V	110 V	5796905270
			Stacking valve, add. compressed air port	Ø 8x1		-	230 V	230 V	5796905280
			Stacking valve, add. compressed air port	Ø 8x1		-	230 V	230 V	5796905680
			End valve	-		12 V	-	-	<b>5792900210</b>
			End valve	-		24 V	-	-	<b>5792900220</b>
			End valve	-		24 V	-	-	5792900620
			End valve	-		-	24 V	24 V	5792905220
			End valve	-		-	110 V	110 V	5792905270
			End valve	-		-	230 V	230 V	5792905280
			End valve	-		-	230 V	230 V	5792905680

## Directional valves → Electrically operated

**5/2-way valve, Series 579**

►  $Q_n = 600 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent

Part No.	Flow rate value	Weight	Note
	$Q_n$		
	[l/min]	[kg]	
<b>5790900210</b>	600	0.133	-
<b>5790900220</b>			-
5790900620			1); 2); 3)
5790905220			-
5790905270			-
5790905280			-
5790905680			3)
<b>5791900210</b>			-
<b>5791900220</b>			-
<b>5791900620</b>			1); 2); 3)
5791905220			-
5791905270			-
5791905280			-
5791905680			3)
5796900210			-
5796900220			-
5796900620			1); 2); 3)
5796905220			-
5796905270			-
5796905280			-
5796905680			3)
<b>5792900210</b>			-
<b>5792900220</b>			-
5792900620			1); 2); 3)
5792905220			-
5792905270			-
5792905280			-
5792905680			3)

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

3) LED status display : Red

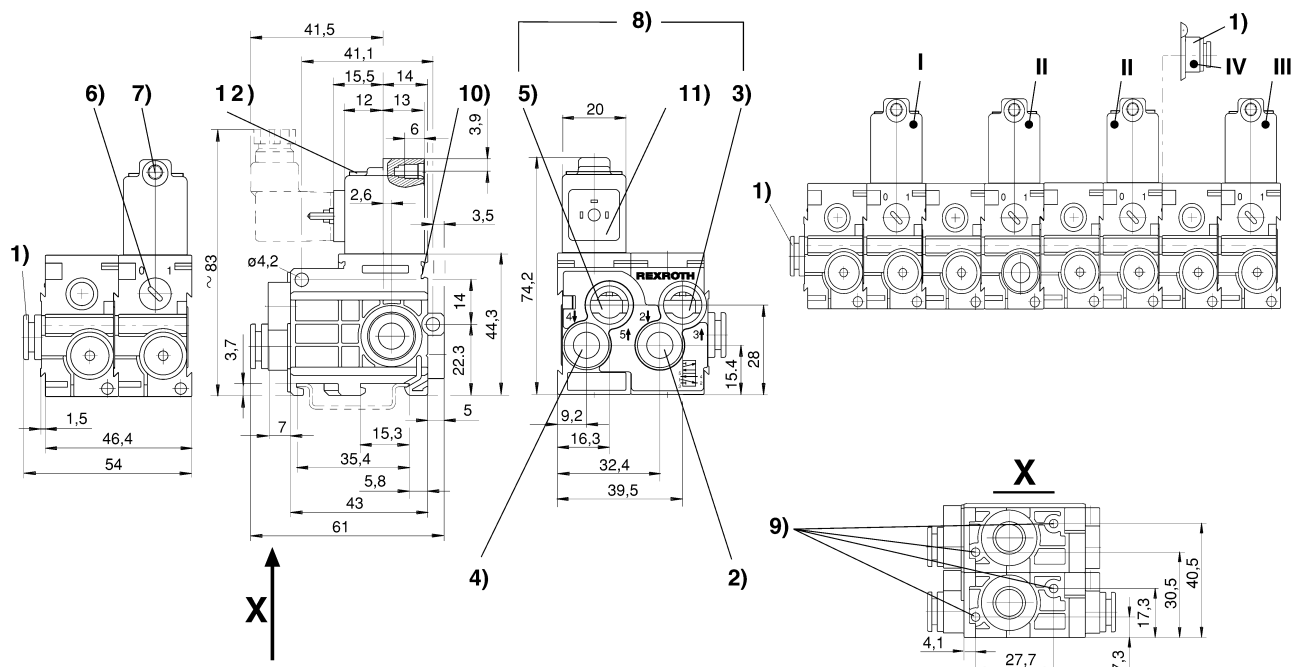
Nominal flow  $Q_n$  at 6 bar and  $\Delta p = 1 \text{ bar}$

MO = Manual override

## Directional valves → Electrically operated

**5/2-way valve, Series 579**

►  $Q_n = 600 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► manual override: with detent

**Dimensions**

D579\_080

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

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



## Directional valves → Electrically operated

**2/2-way valve, Series 589**

► Qn = 50 l/min ► pipe connection ► compressed air connection output: Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent



P579\_400

Version	Poppet valve
Sealing principle	soft sealing
Working pressure min./max.	0 bar / 7 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	20 ms
Switch-off time	23 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Versions with voltage of less than 50 V DC do not have a protective ground

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		<b>W</b>
24 V	-10% / +10%	2

		MO	Compressed air connection		Operating voltage	Flow rate value	Weight	Part No.
			Input	Output	DC	Qn		
						[l/min]	[kg]	
	NC		Ø 6x1	Ø 6x1	24 V	50	0.079	5894000220

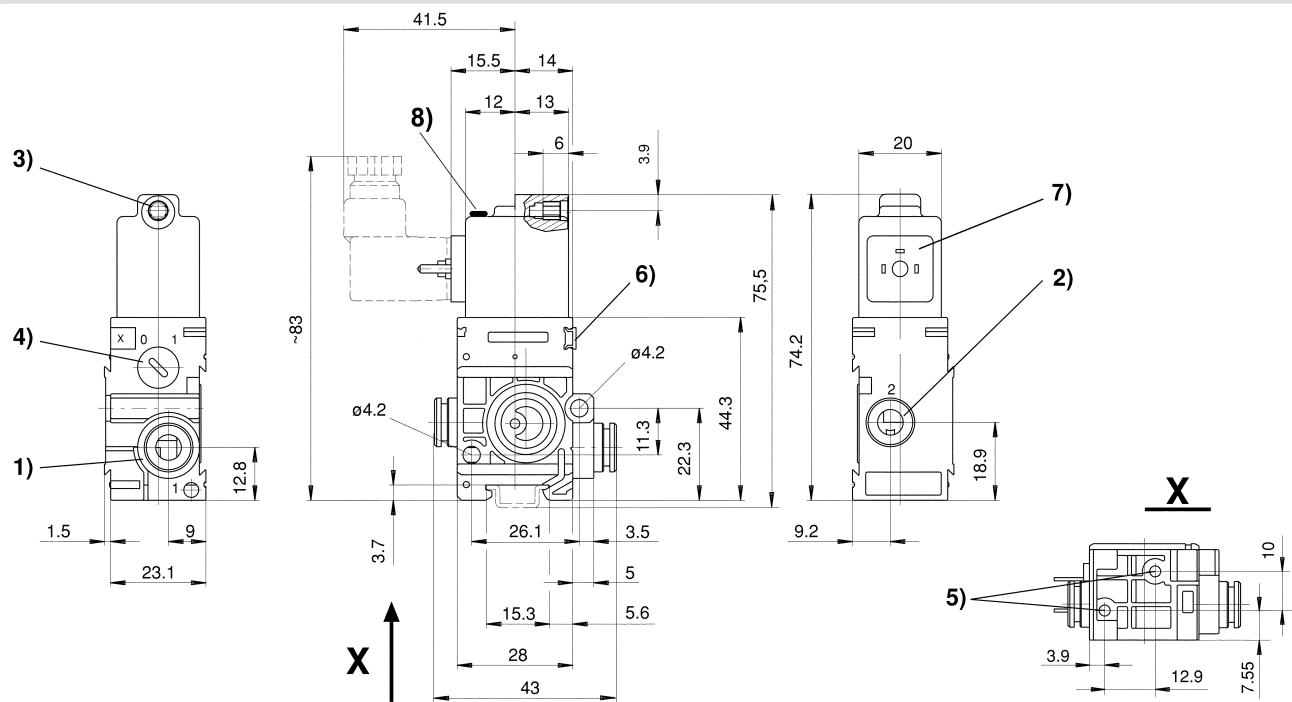
MO = Manual override

Nominal flow Qn at 6 bar and Δp = 1 bar

## Directional valves → Electrically operated

**2/2-way valve, Series 589**

►  $Q_n = 50 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent

**Dimensions**

D579\_400

- 1) Port 1
- 2) Port 2
- 3) Port 3, core  $\varnothing$  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  $180^\circ$  intervals
- 8) LED

## Directional valves → Electrically operated

**3/2-way valve, Series 589**

► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC



Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	3 bar / 8 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

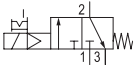

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 589**

► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC

		MO	Compressed air connection			Operating voltage			Flow rate value	Weight	Note	Part No.
			Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	Qn			
									[l/min]	[kg]		
	NC		Ø 6x1	Ø 6x1	Ø 8x1	12 V	-	-	520	0.093	-	5894400210
			Ø 6x1	Ø 6x1		24 V	-	-	520		-	<b>5894400220</b>
			Ø 6x1	Ø 6x1		24 V	-	-	520		1); 2); 3)	5894400620
			Ø 6x1	Ø 6x1		-	24 V	24 V	520		-	<b>5894405220</b>
			Ø 6x1	Ø 6x1		-	110 V	110 V	520		-	5894405270
			Ø 6x1	Ø 6x1		-	230 V	230 V	520		-	5894405280
			Ø 6x1	Ø 6x1		-	230 V	230 V	520		-	5894405680
			Ø 8x1	Ø 8x1		12 V	-	-	750		3)	<b>5894600210</b>
			Ø 8x1	Ø 8x1		24 V	-	-	750		-	<b>5894600220</b>
			Ø 8x1	Ø 8x1		24 V	-	-	750		1); 2); 3)	<b>5894600620</b>
			Ø 8x1	Ø 8x1		-	24 V	24 V	750		-	5894605220
			Ø 8x1	Ø 8x1		-	110 V	110 V	750		-	5894605270
			Ø 8x1	Ø 8x1		-	230 V	230 V	750		-	5894605280
			Ø 8x1	Ø 8x1		-	230 V	230 V	750		3)	5894605680

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

3) LED status display : Red

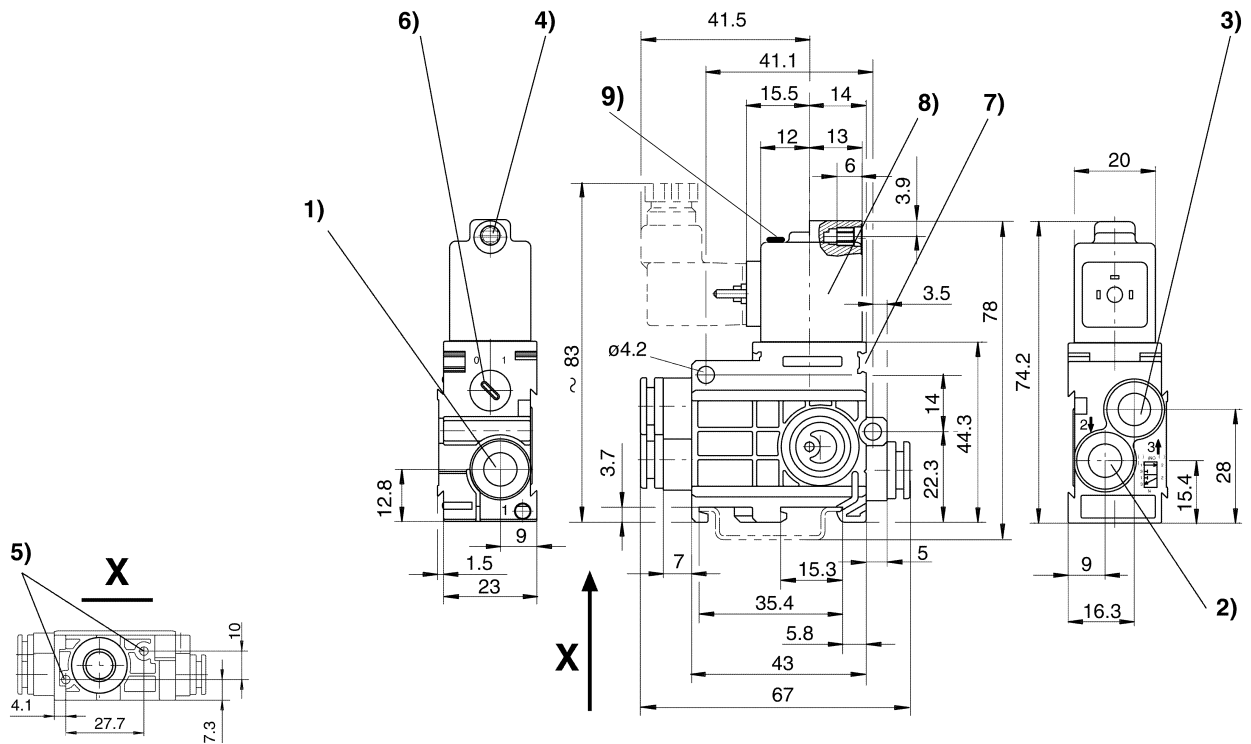
Nominal flow Qn at 6 bar and Δp = 1 bar

**Directional valves → Electrically operated**

### 3/2-way valve, Series 589

► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NC

## Dimensions



D589\_460

- 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) mounting space for name plate 8) coil can be rotated at 180° intervals 9) LED

Directional valves → Electrically operated

3/2-way valve, Series 589

► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NO



Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	3 bar / 8 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

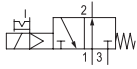

Technical Remarks										
<div> <div>■</div>                     The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.                 </div> <div> <div>■</div>                     The oil content of air pressure must remain constant during the life cycle.                 </div> <div> <div>■</div>                     Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.                 </div> <div> <div>■</div>                     At an ambient temperature of 40 °C the max. working pressure is 10 bar.                 </div> <div> <div>■</div>                     Versions with voltage of less than 50 V DC do not have a protective ground                 </div>										

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 589**

► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NO

		MO	Compressed air connection			Operating voltage			Flow rate value	Weight	Note	Part No.
			Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	Qn			
									[l/min]	[kg]		
	NO		Ø 6x1	Ø 6x1	Ø 8x1	12 V	-	-	520	0.093	-	5894410210
			Ø 6x1	Ø 6x1		24 V	-	-	520		-	5894410220
			Ø 6x1	Ø 6x1		24 V	-	-	520		1); 2); 3)	5894410620
			Ø 6x1	Ø 6x1		-	24 V	24 V	520		-	5894415220
			Ø 6x1	Ø 6x1		-	110 V	110 V	520		-	5894415270
			Ø 6x1	Ø 6x1		-	230 V	230 V	520		-	5894415280
			Ø 6x1	Ø 6x1		-	230 V	230 V	520		3)	5894415680
			Ø 8x1	Ø 8x1		12 V	-	-	750		-	5894610210
			Ø 8x1	Ø 8x1		24 V	-	-	750		-	5894610220
			Ø 8x1	Ø 8x1		24 V	-	-	750		1); 2); 3)	5894610620
			Ø 8x1	Ø 8x1		-	24 V	24 V	750		-	5894615220
			Ø 8x1	Ø 8x1		-	110 V	110 V	750		-	5894615270
			Ø 8x1	Ø 8x1		-	230 V	230 V	750		-	5894615280
			Ø 8x1	Ø 8x1		-	230 V	230 V	750		3)	5894615680

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

3) LED status display : Red

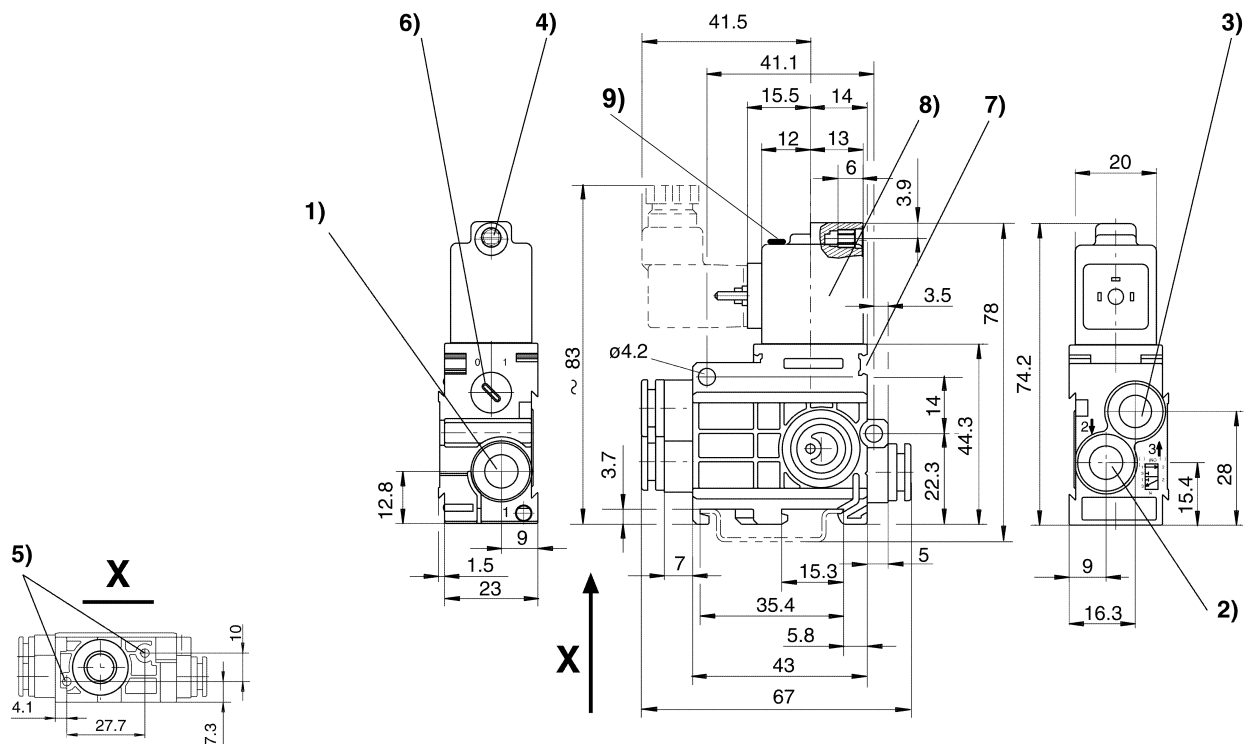
Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

## Directional valves → Electrically operated

**3/2-way valve, Series 589**

►  $Q_n = 520 - 750 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1 - \varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent ► NO

## Dimensions



D589\_460

1) port 1 2) port 2 3) port 3 4) core  $\varnothing$  for M 5 5) pocket hole 6 mm deep for 3.5 self-tapping screw 6) manual override 7) mounting space for name plate 8) coil can be rotated at  $180^\circ$  intervals 9) LED



## Directional valves → Electrically operated

**3/2-way valve, Series 589**

► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NC, externally piloted



PS89\_460

Version	Poppet valve
Pilot	external
Sealing principle	soft sealing
Working pressure min./max.	0.5 bar / 8 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

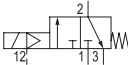
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 589**

► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NC, externally piloted

		Compressed air connection				Operating voltage			Flow rate value	Weight	Note	Part No.
		Input	Output	Exhaust	Pilot connection	DC	AC 50 Hz	AC 60 Hz	Qn			
									[l/min]	[kg]		
	NC	Ø 6x1	Ø 6x1	Ø 8x1	Ø 4	12 V	-	-	520	0.093	-	5894470210
		Ø 6x1	Ø 6x1			24 V	-	-	520		-	5894470220
		Ø 6x1	Ø 6x1			24 V	-	-	520		1); 2); 3)	5894470620
		Ø 6x1	Ø 6x1			-	24 V	24 V	520		-	5894475220
		Ø 6x1	Ø 6x1			-	110 V	110 V	520		-	5894475270
		Ø 6x1	Ø 6x1			-	230 V	230 V	520		-	5894475280
		Ø 6x1	Ø 6x1			-	230 V	230 V	520		3)	5894475680
		Ø 8x1	Ø 8x1			12 V	-	-	750		-	5894670210
		Ø 8x1	Ø 8x1			24 V	-	-	750		-	<b>5894670220</b>
		Ø 8x1	Ø 8x1			24 V	-	-	750		1); 2); 3)	5894670620
		Ø 8x1	Ø 8x1			-	24 V	24 V	750		-	5894675220
		Ø 8x1	Ø 8x1			-	110 V	110 V	750		-	5894675270
		Ø 8x1	Ø 8x1			-	230 V	230 V	750		-	5894675280
		Ø 8x1	Ø 8x1			-	230 V	230 V	750		3)	5894675680

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

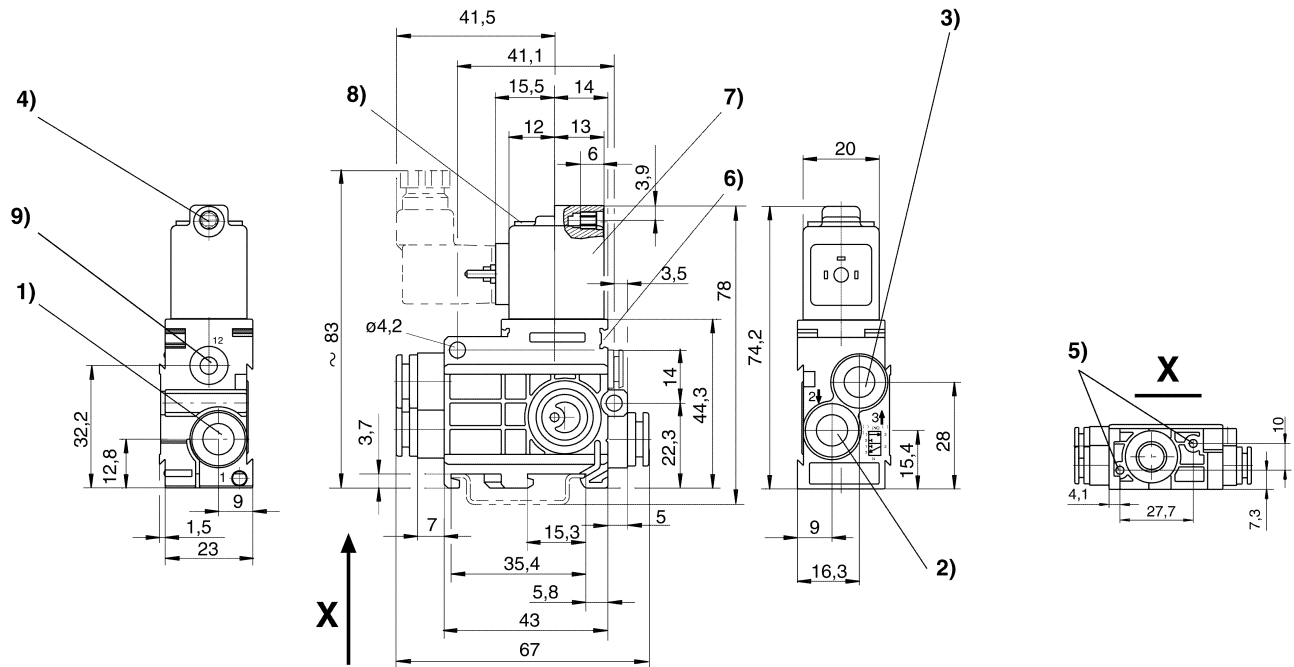
3) LED status display : Red

Nominal flow Qn at 6 bar and Δp = 1 bar

## Directional valves → Electrically operated

**3/2-way valve, Series 589**

►  $Q_n = 520 - 750 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1 - \varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NC, externally piloted

**Dimensions**

D589\_467

1) port 1 2) port 2 3) port 3 4) core  $\varnothing$  for M 5 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

## Directional valves → Electrically operated

**3/2-way valve, Series 589**

► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 8x1 - Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NO, externally piloted



P589\_460

Version	Poppet valve
Pilot	external
Sealing principle	soft sealing
Working pressure min./max.	0.5 bar / 8 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	18 ms
Switch-off time	16 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**

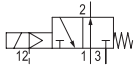
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- At an ambient temperature 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**3/2-way valve, Series 589**

► Qn = 520 - 750 l/min ► pipe connection ► compressed air connection output: Ø 8x1 - Ø 6x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► NO, externally piloted

		Compressed air connection				Operating voltage			Flow rate value	Weight	Note	Part No.
		Input	Output	Exhaust	Pilot connection	DC	AC 50 Hz	AC 60 Hz	Qn			
									[l/min]	[kg]		
	NO	Ø 8x1	Ø 8x1	Ø 8x1	Ø 4	12 V	-	-	750	0.093	-	5894620210
		Ø 8x1	Ø 8x1			24 V	-	-	750		-	<b>5894620220</b>
		Ø 8x1	Ø 8x1			24 V	-	-	750		1); 2); 3)	5894620620
		Ø 8x1	Ø 8x1			-	24 V	24 V	750		-	5894625220
		Ø 8x1	Ø 8x1			-	110 V	110 V	750		-	5894625270
		Ø 8x1	Ø 8x1			-	230 V	230 V	750		-	5894625280
		Ø 8x1	Ø 8x1			-	230 V	230 V	750		3)	5894625680
		Ø 6x1	Ø 6x1			12 V	-	-	520		-	5894420210
		Ø 6x1	Ø 6x1			24 V	-	-	520		-	5894420220
		Ø 6x1	Ø 6x1			24 V	-	-	520		1); 2); 3)	5894420620
		Ø 6x1	Ø 6x1			-	24 V	24 V	520		-	5894425220
		Ø 6x1	Ø 6x1			-	110 V	110 V	520		-	5894425270
		Ø 6x1	Ø 6x1			-	230 V	230 V	520		-	5894425280
		Ø 6x1	Ø 6x1			-	230 V	230 V	520		3)	5894425680

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

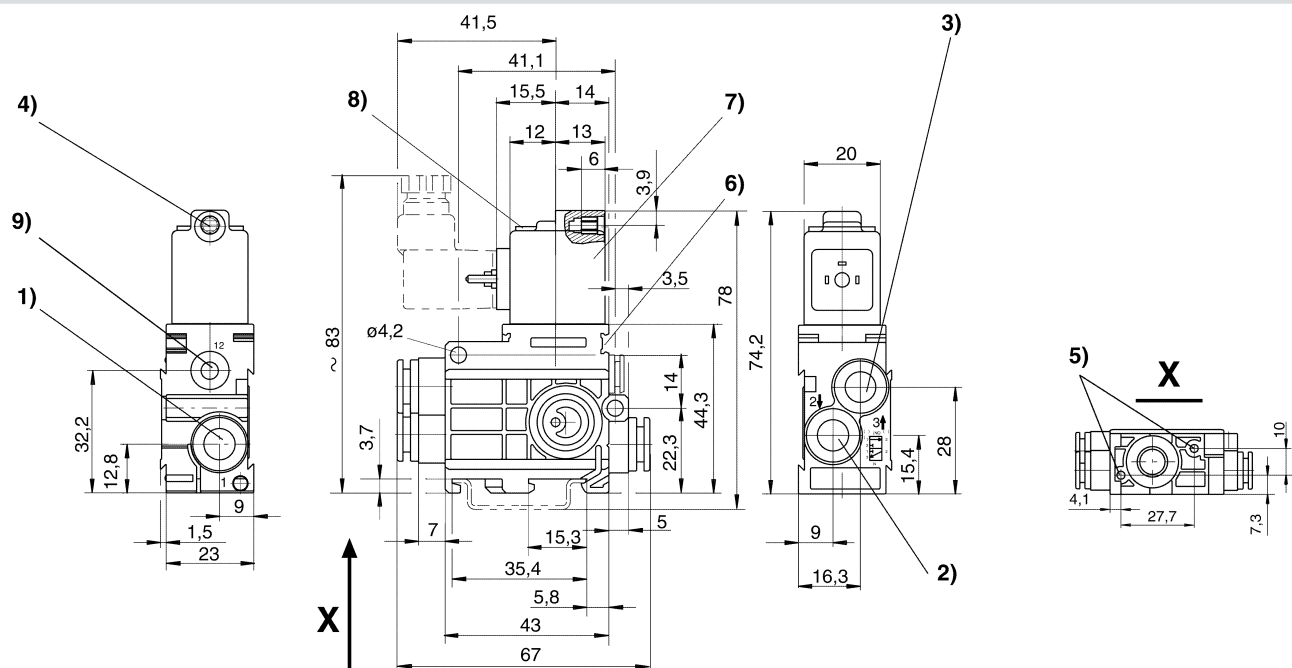
2) power consumption 1,7 W

3) LED status display : Red

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

### 3/2-way valve, Series 589

## Dimensions



1) port 1 2) port 2 3) port 3 4) Ø for M 5 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

## Directional valves → Electrically operated

**5/2-way valve, Series 589**

► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent



P589\_470

Version	Poppet valve
Pilot	internal
Sealing principle	soft sealing
Working pressure min./max.	3 bar / 8 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³
Protection class according to EN 60529: with electrical connector/plug	IP 65
	short circuit protected
Duty cycle	100 %
Switch-on time	27 ms
Switch-off time	28 ms
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

**Technical Remarks**



- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- 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

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.6	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.7	-	-	-	-
-	24 V	24 V	-	-15% / +10%	-10% / +15%	-	3	2.6	2.2	1.8
-	110 V	110 V	-	-15% / +10%	-10% / +15%	-	4.2	3.4	3	2.4
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.2	2.8	2.3	2
-	230 V	230 V	-	-15% / +10%	-10% / +15%	-	3.4	3	2.5	2.2

## Directional valves → Electrically operated

**5/2-way valve, Series 589**

► Qn = 520 - 600 l/min ► pipe connection ► compressed air connection output: Ø 6x1 - Ø 8x1 ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent

		MO	Compressed air connection			Operating voltage			Flow rate value	Weight	Note	Part No.
			Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	Qn			
									[l/min]	[kg]		
	NC		Ø 6x1	Ø 6x1	Ø 8x1	12 V	-	-	520	0.133	-	5894700210
			Ø 6x1	Ø 6x1		24 V	-	-	520		-	5894700220
			Ø 6x1	Ø 6x1		24 V	-	-	520		1); 2); 3)	5894700620
			Ø 6x1	Ø 6x1		-	24 V	24 V	520		-	5894705220
			Ø 6x1	Ø 6x1		-	110 V	110 V	520		-	5894705270
			Ø 6x1	Ø 6x1		-	230 V	230 V	520		-	5894705280
			Ø 6x1	Ø 6x1		-	230 V	230 V	520		3)	5894705680
			Ø 8x1	Ø 8x1		12 V	-	-	600		-	5894900210
			Ø 8x1	Ø 8x1		24 V	-	-	600		-	<b>5894900220</b>
			Ø 8x1	Ø 8x1		24 V	-	-	600		1); 2); 3)	5894900620
			Ø 8x1	Ø 8x1		-	24 V	24 V	600		-	5894905220
			Ø 8x1	Ø 8x1		-	110 V	110 V	600		-	5894905270
			Ø 8x1	Ø 8x1		-	230 V	230 V	600		-	<b>5894905280</b>
			Ø 8x1	Ø 8x1		-	230 V	230 V	600		3)	5894905680

MO = Manual override

1) with LED and protective diode for reducing voltage peaks in the solenoid coil, short circuit protected

2) power consumption 1,7 W

3) LED status display : Red

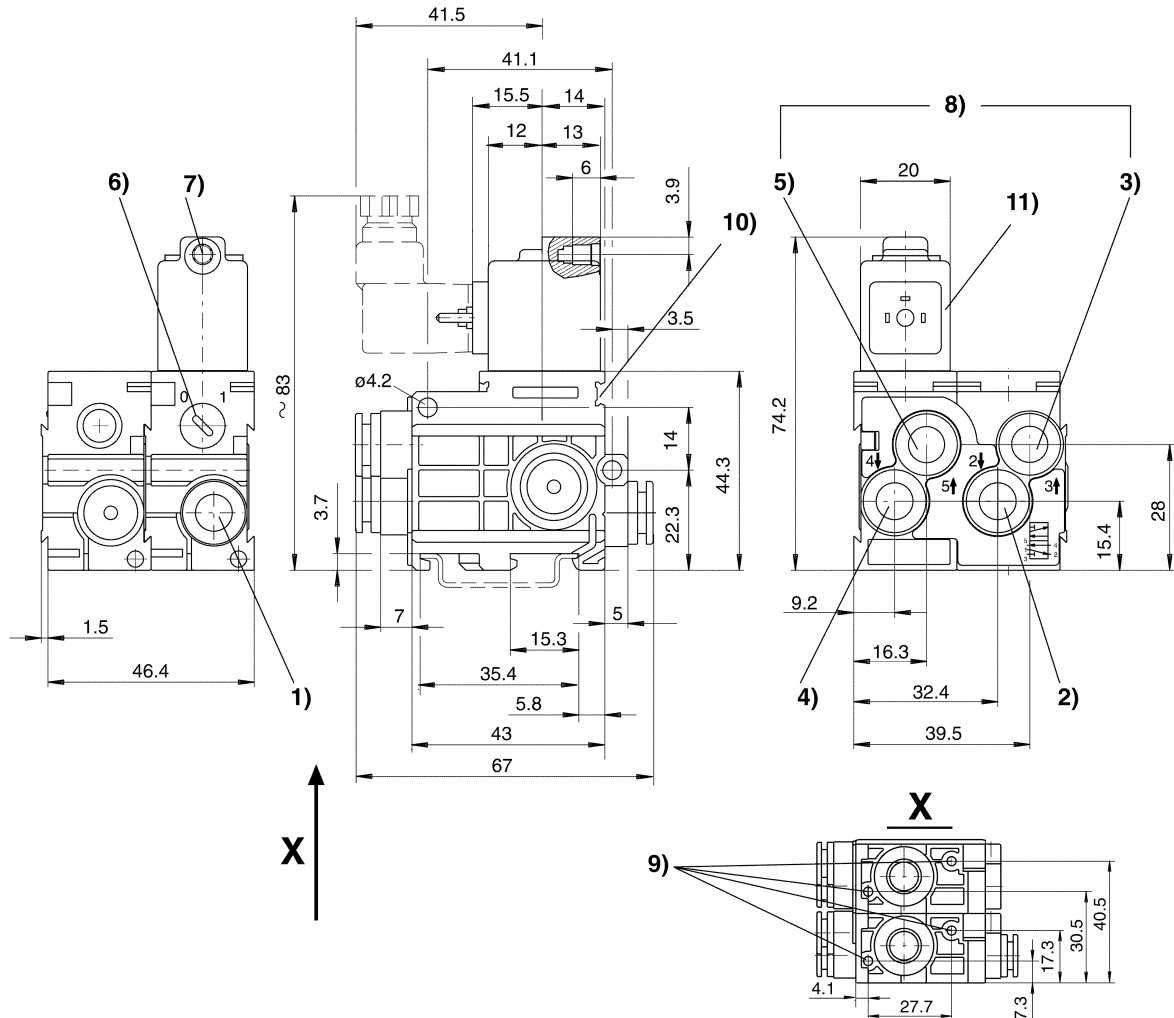
Nominal flow Qn at 6 bar and Δp = 1 bar



## Directional valves → Electrically operated

**5/2-way valve, Series 589**

►  $Q_n = 520 - 600 \text{ l/min}$  ► pipe connection ► compressed air connection output:  $\varnothing 6 \times 1 - \varnothing 8 \times 1$  ► Electr. connection: Plug, ISO 15217, form C ► single valve ► manual override: with detent

**Dimensions**

D589\_470

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  $180^\circ$  intervals 12) LED

Directional valves → Electrically operated

Series 579, 589  
Accessories

Electrical connectors, Series CN1  
► ISO 15217:2000 ► Electrical connector, form C



4400-141

Ambient temperature min./max.	-40 °C / +90 °C
Protection class according to EN 60529:	IP 65
Cable fitting	M12x1,5
mounting screw tightening torque	0.4 Nm

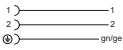
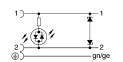
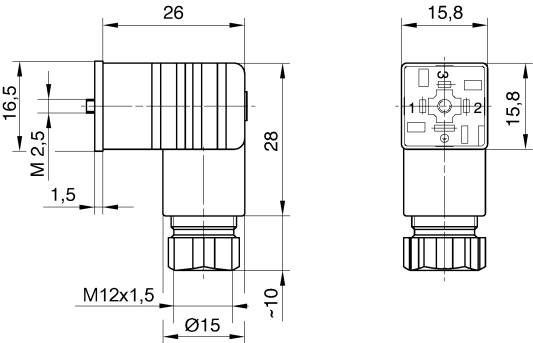
	Operating voltage		Contact assignment	Cable exit	Protective circuit	number of plug options 1	Part No.
	DC	AC					
	[V]	[V]					
	-	-	2+E	angled 90°	-	4 positions each 90°	1834484187
	24	24	2+E	angled 90°	Z-diode	4 positions each 90°	4402050330
Part No.	LED status display		Housing color		Weight		Note
					[kg]		
1834484187	-		Black		0.012		Fig. 1
4402050330	Yellow		Transparent		0.014		Fig. 2

Fig. 1

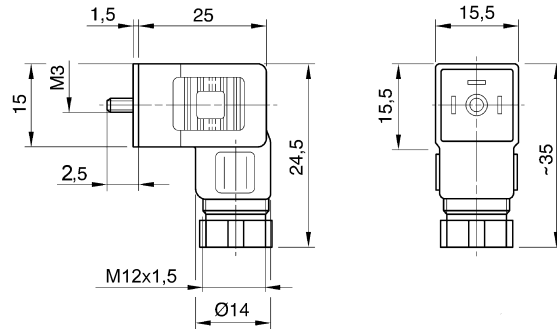


00110255

## Directional valves → Electrically operated

Series 579, 589  
Accessories

Fig. 2



00110253\_m

## Electrical connectors, Series CN1

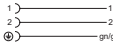
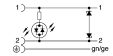
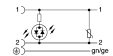
## ► ISO 15217:2000 ► Electrical connector, form C ► with cable



P894\_018

Ambient temperature min./max.  
Protection class according to EN 60529  
Cable exit  
Tightening torque for mounting screws

-20°C / +80°C  
IP 67  
angled 90°  
0.4 Nm

	Electrical interface	Number of plug options	Operating voltage		Max. current	Protective circuit	Contact assignment	Part No.
	[Port 1]	[for port 1]	[V DC]	[V AC]	[A]			
	Electrical connector, form C	1 position	-	-	6	-	2+E	1834484212 1834484213 1834484214 1834484215
	Electrical connector, form C	1 position	24	24	6	Z-diode	2+E	1834484204 1834484205 1834484206 1834484207 1834484236
	Electrical connector, form C	1 position	-	230	6	Varistor	2+E	1834484208 1834484209 1834484210 1834484211
Part No.	LED status display	Housing color	Number of wires		Cable length	Weight	Note	
					[m]	[kg]		
1834484212	-	Black	-	-	3	0.183	Fig. 1	
1834484213					3	0.183	Fig. 2	
1834484214					5	0.308	Fig. 1	
1834484215					5	0.308	Fig. 2	

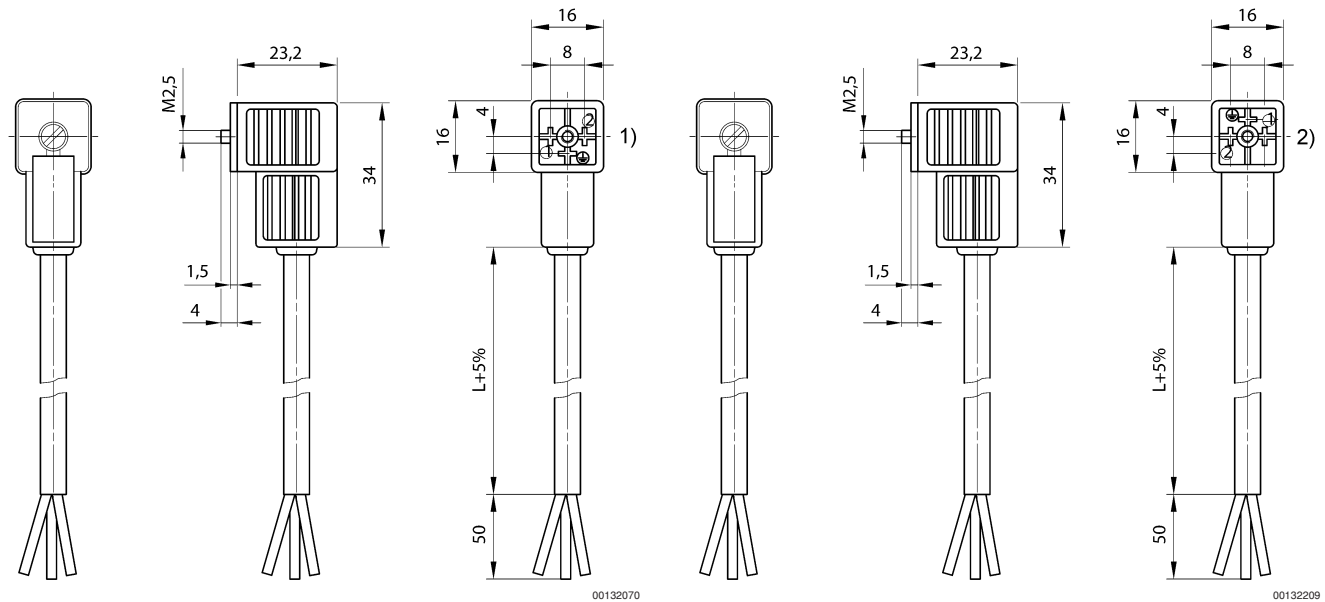
Directional valves → Electrically operated

Series 579, 589  
Accessories

Part No.	LED status display	Housing color	Number of wires	Cable length	Weight	Note
				[m]	[kg]	
<b>1834484204</b>	Yellow	Black	2	3	0.185	Fig. 3
<b>1834484205</b>			2	3	0.185	Fig. 4
<b>1834484206</b>			2	5	0.292	Fig. 3
<b>1834484207</b>			-	5	0.298	Fig. 4
<b>1834484236</b>			-	10	0.571	Fig. 4
<b>1834484208</b>	Red	Black	-	3	0.171	Fig. 3
<b>1834484209</b>				3	0.194	Fig. 4
<b>1834484210</b>				5	0.297	Fig. 3
<b>1834484211</b>				5	0.285	Fig. 4

Fig. 1

Fig. 2



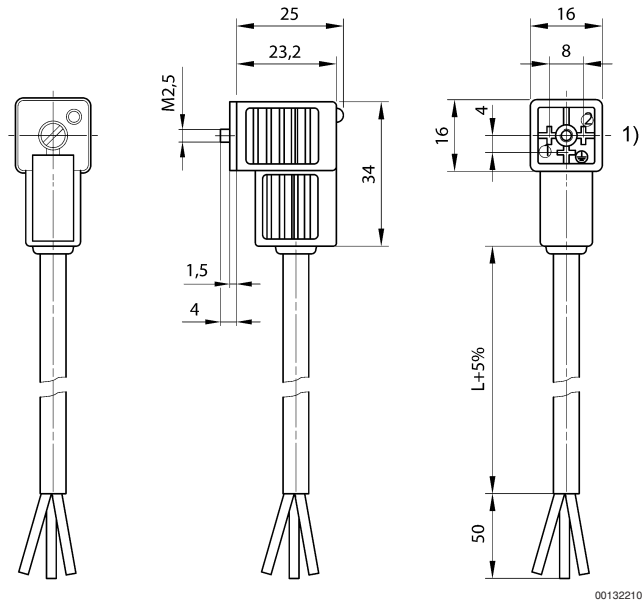
1) 0° female insert

2) 180° female insert

Directional valves → Electrically operated

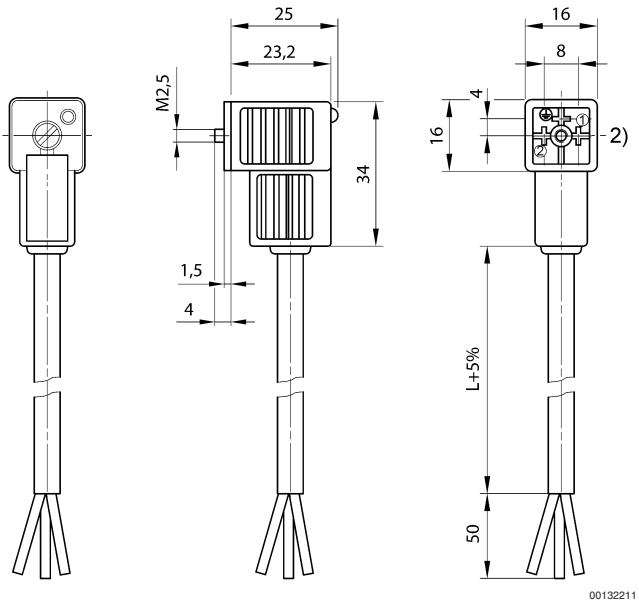
Series 579, 589  
Accessories

Fig. 3



1) 0° female insert

Fig. 4



2) 180° female insert

Contact bridge

► Control: plug M12 ► Plug, M12x1, 4-pin ► Number of solenoid coils: 1



P576\_357

Ambient temperature min./max.	-15°C / +50°C
Protection class according to EN 60529: 2000	IP 65
Protective circuit	43 V bi-directional
Operating voltageDC	24 V
Operational voltage AC at 50 Hz	24 V
Operational voltage AC at 60 Hz	24 V
Voltage tolerance DC	-20% / +20%
Voltage tolerance AC 50 Hz	-10% / +10%
Voltage tolerance AC 60 Hz	-10% / +10%
Valve LED status display	Yellow
Mounting screw	M2.5 with slot
Tightening torque for mounting screws [+0,05]	0.25 Nm
Materials:	
Housing	Polyester amide
Seals	Fluorocaoutchouc

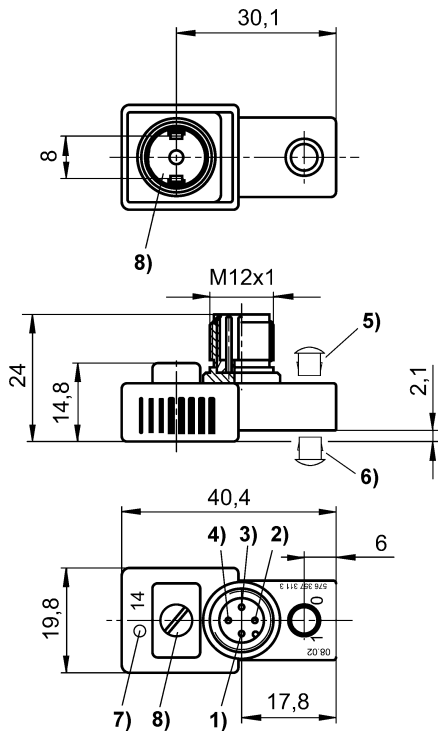
Port	Weight	Part No.
Valve		
	[kg]	
Electrical connector, ISO 15217, form C	0.016	5763573113

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information  
Pneumatics catalog, online PDF, as of 2010-01-30, © Bosch Rexroth AG, subject to change

Directional valves → Electrically operated

Series 579, 589  
Accessories

Dimensions



D576\_357

- 1) not assigned
- 2) not assigned
- 3) ground
- 4) magnet 14
- 5) Sealing cap for manual override not removable
- 6) Removable
- 7) LED valve
- 8) captive seal and screw

Contact bridge

► Control: Multipole ► Plug, Snap-in plug Ø8, 3-pin ► Number of solenoid coils: 1

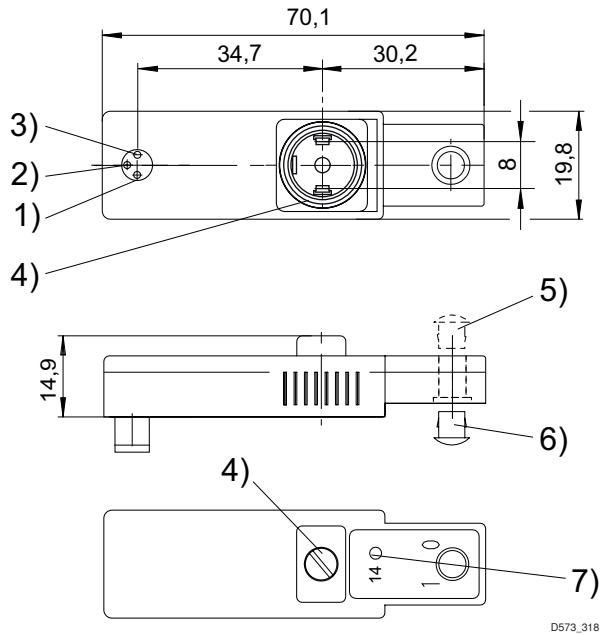


Ambient temperature min./max.	-25 °C / +75 °C
Protection class according to EN 60529: 2000	IP 65
Protective circuit	43 V bi-directional
Operating voltageDC	24 V
Voltage tolerance DC	-20% / +20%
Valve LED status display	Yellow
Mounting screw	M2.5 with slot
Tightening torque for mounting screws [+0,05]	0.25 Nm
Materials:	
Housing	Polyester amide
Seals	Fluorocautchouc

## Directional valves → Electrically operated

**Series 579, 589**  
**Accessories**

Port	Wire cross-section	Weight	Part No.
Valve			
	[mm <sup>2</sup> ]	[kg]	
Electrical connector, ISO 15217, form C	0.14	0.012	5763503183

**Dimensions**


1) solenoid 14 2) not assigned 3) ground

4) captive seal and screw 5) sealing cap for manual override not removable 6) removable 7) LED valve

Directional valves → Electrically operated

Series 579, 589  
Accessories

Contact bridge

► Control: Multipole ► without wire end ferrule, tin-plated, with cable ► Number of solenoid coils: 1



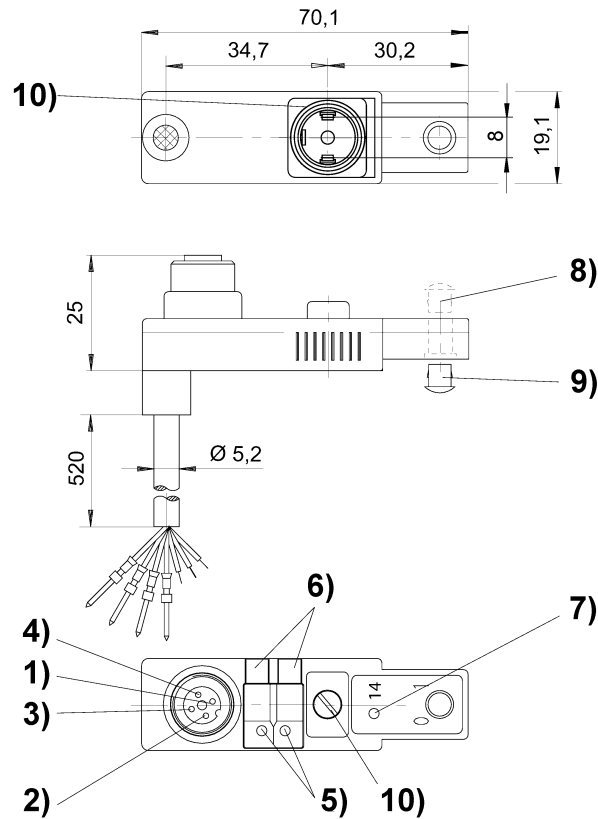
number of sensor inputs	2
Ambient temperature min./max.	-25 °C / +75 °C
Protection class according to EN 60529: 2000	IP 65
Protective circuit	43 V bi-directional
Operating voltageDC	24 V
Voltage tolerance DC	-20% / +20%
Valve LED status display	Yellow
Initiator LED status display	Green
Mounting screw	M2.5 with slot
Tightening torque for mounting screws	0.25 Nm
Materials:	
Housing	Polyester amide
Cable	Polyurethane
Seals	Fluorocaoutchouc

The delivered product may vary from that in the illustration.

Port		Cable length	Cable-Ø	n-Wire	Wire cross-section	Weight	Part No.
Valve	Sensors						
		[m]	[mm]		[mm²]	[kg]	
Electrical connector, ISO 15217, form C	Socket, M12, 5-pin	0.52	5.2	7	0.14	0.038	5763503133



## Directional valves → Electrically operated

**Series 579, 589**  
Accessories**Fig. 1**

D573\_313

- 1) 24 V DC
- 2) Sensor input 2
- 3) Ground
- 4) Sensor input 1
- 5) LED sensors
- 6) Mounting space for name plate
- 7) LED valve
- 8) Sealing cap for manual override, not removable
- 9) Removable
- 10) Captive seal and screw

Directional valves → Electrically operated

Series 579, 589  
Accessories

Contact bridge

► Control: Link structure VDS ► Plug, mini-DIN, 8-pin, with cable ► Number of solenoid coils: 1



P576\_313

Ambient temperature min./max.	-15 °C / +50 °C
Protection class according to EN 60529: 2000	IP 65
Protective circuit	43 V
Operating voltageDC	24 V
Valve LED status display	Yellow
Mounting screw	M2.5 with slot
Tightening torque for mounting screws [+0,05]	0.25 Nm
Materials:	
Housing	Polyester amide
Cable	Polyurethane
Seals	Fluorocaoutchouc

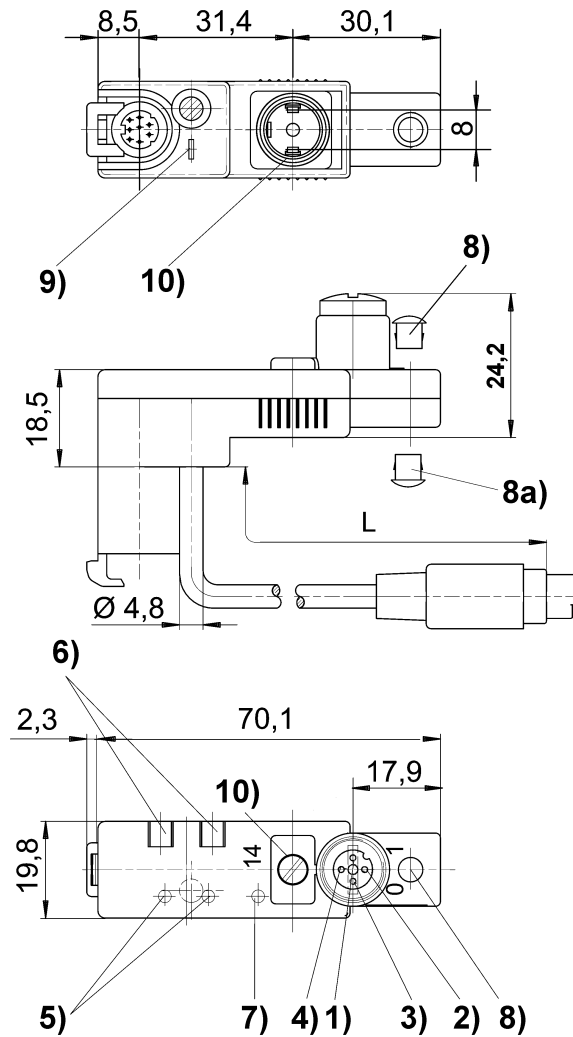
Port		Number	Cable length	Cable-Ø	Status display	Wire cross-section	Weight	Note	Part No.
Valve	Sensors	Sensor inputs			Initiator LED				
			[m]	[mm]		[mm²]	[kg]		
Electrical connector, ISO 15217, form C	Socket, M12, 5-pin	2	0.2	4.8	Green	0.128	0.039	Fig. 1	5763503113
Electrical connector, ISO 15217, form C	-	-	0.2	4.8	-	0.128	0.037	1); Fig. 1	5763513133
Electrical connector, ISO 15217, form C	Socket, M12, 5-pin	2	0.5	4.8	Green	0.128	0.052	2); Fig. 1	5763553113
Electrical connector, ISO 15217, form C	Socket, M12, 5-pin	2	1	4.8	Green	0.128	0.068	1); 2); Fig. 1	5763513113
Electrical connector, ISO 15217, form C	Socket, M12, 5-pin	2	5	4.8	Green	0.128	0.22	1); 2); Fig. 1	5763523113

1) Protective cap  
 2) intended for the 1st valve position, to connect with the C-design bus module

## Directional valves → Electrically operated

**Series 579, 589**  
**Accessories**

Fig. 1



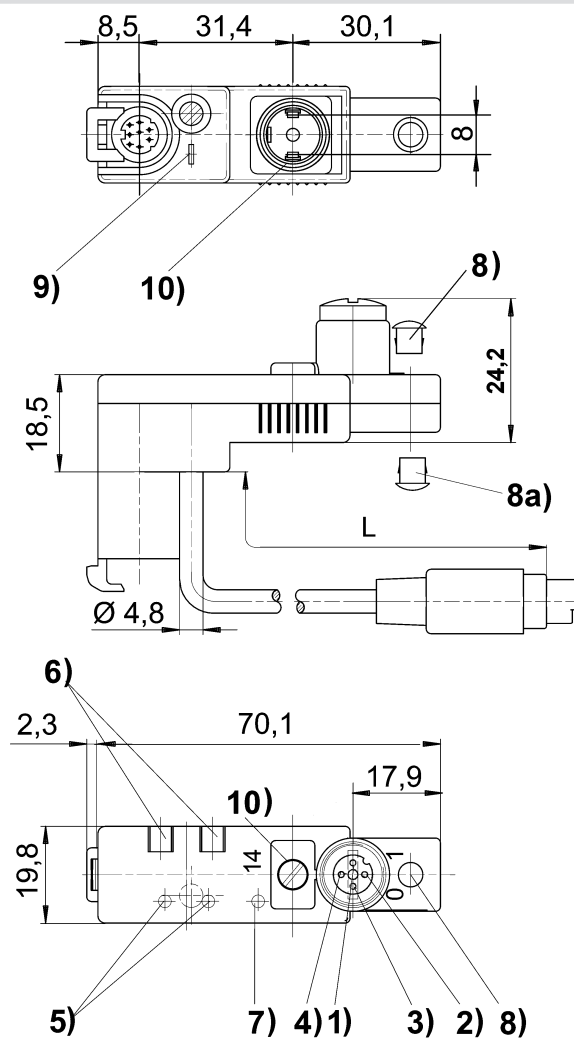
D576\_313

- 1) 24 V DC
- 2) sensor input 2
- 3) ground
- 4) sensor input 1
- 5) LED sensors
- 6) mounting space for name plate
- 7) LED valve
- 8) sealing cap for manual override, not removable
- 8a) removable
- 9) additional grounding option
- 10) captive seal and screw

## Directional valves → Electrically operated

**Series 579, 589**  
**Accessories**

Fig. 2



00132137

- 1) 24 V DC
- 2) External output 2
- 3) Ground
- 4) External output 1
- 5) LED outputs
- 6) Mounting space for name plate
- 7) LED valve
- 8) Sealing cap for manual override, not removable
- 8a) Removable
- 9) Additional possibility of grounding
- 10) Captive seal and screw

## Directional valves → Electrically operated

**Series 579, 589**  
**Accessories**
**Contact bridge**
**► Control: Link structure VDS ► Plug, M12x1, 8-pin, with cable ► Number of solenoid coils: 1**


Ambient temperature min./max.	-15 °C / +50 °C
Protection class according to EN 60529: 2000	IP 65
Protective circuit	43 V
Operating voltage DC	24 V
Valve LED status display	Yellow
Mounting screw	M2.5 with slot
Tightening torque for mounting screws [+0,05]	0.25 Nm

Materials:	
Housing	Polyester amide
Cable	Polyurethane
Seals	Fluorocautchouc

The delivered product varies from that in the illustration. See the drawing for an exact description.

Port		Number	Cable length	Cable-Ø	Status display	Wire cross-section	Weight	Note	Part No.
Valve	Sensors	Sensor inputs			Initiator LED				
			[m]	[mm]		[mm²]	[kg]		
Electrical connector, ISO 15217, form C	Socket, M12, 5-pin	2	0.5	4.8	Green	0.128	0.062	1); 2); Fig. 1	5763523133

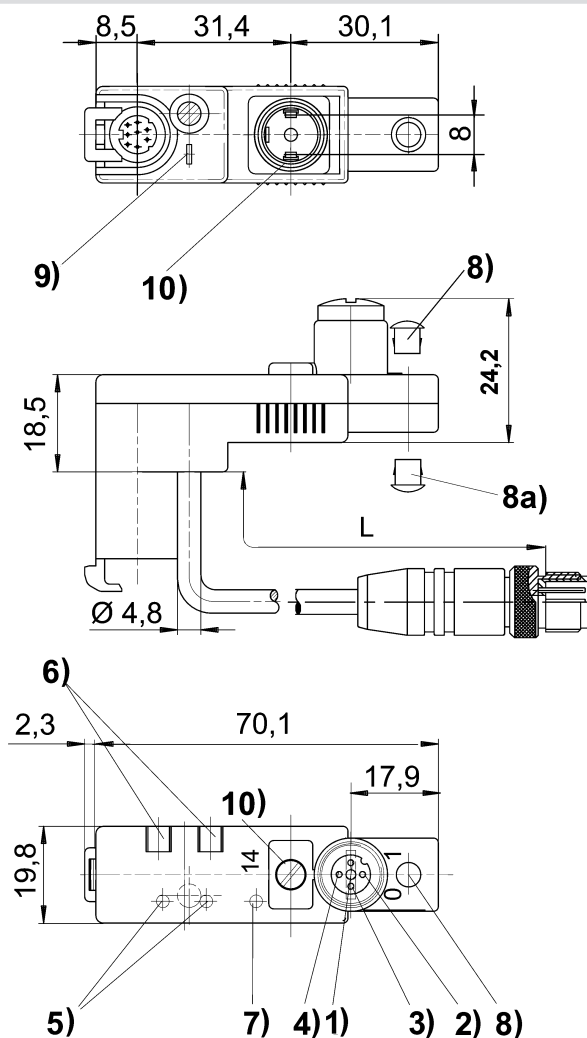
1) Protective cap

2) intended for the 1st valve position, to connect with the F-design bus module

## Directional valves → Electrically operated

**Series 579, 589**  
**Accessories**

Fig. 1



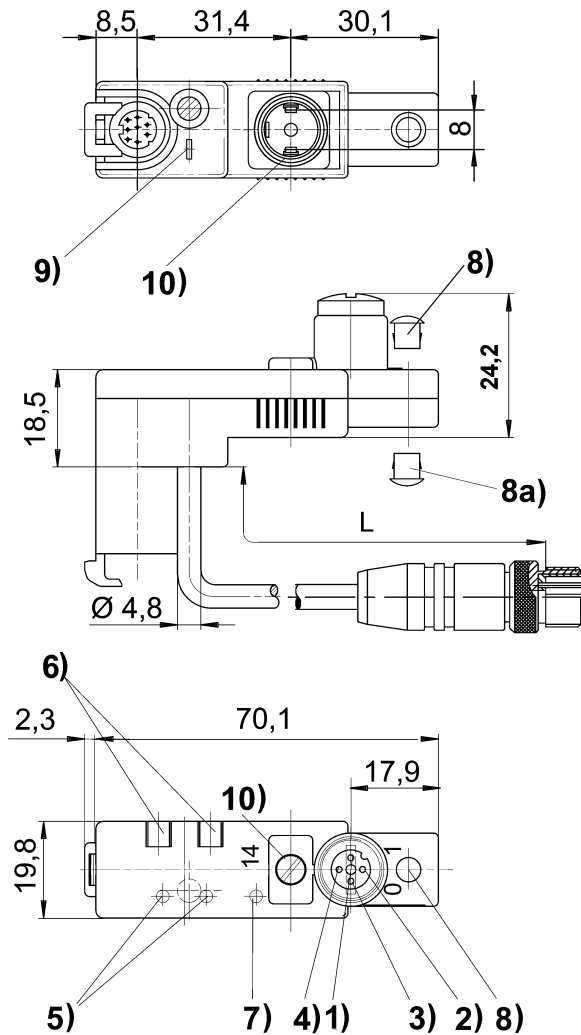
00132021

- 1) 24 V DC
- 2) sensor input 2
- 3) ground
- 4) sensor input 1
- 5) LED sensors
- 6) mounting space for name plate
- 7) LED valve
- 8) sealing cap for manual override, not removable
- 8a) removable
- 9) additional grounding option
- 10) captive seal and screw

## Directional valves → Electrically operated

**Series 579, 589**  
**Accessories**

Fig. 2



00132212

- 1) 24 V DC
- 2) External output 2
- 3) Ground
- 4) External output 1
- 5) LED outputs
- 6) Mounting space for name plate
- 7) LED valve
- 8) Sealing cap for manual override, not removable
- 8a) Removable
- 9) Additional possibility of grounding
- 10) Captive seal and screw

Directional valves → Electrically operated

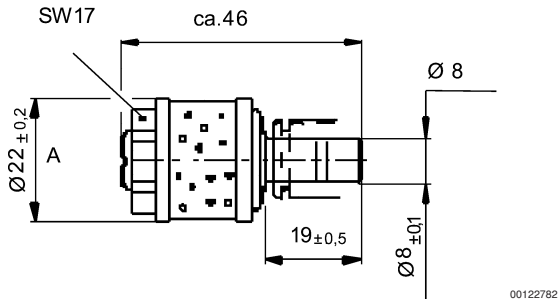
Series 579, 589  
Accessories

Silencer-throttle unit combination, Throttle valves

► Qn = 1300 l/min ► Throttle valve with silencer



P334\_201



00122782

Port 1	Qn	Weight	Part No.
	[l/min]	[kg]	
Ø 8	1300	0.06	3341052010

Silencers, Series SI1

► Sintered bronze

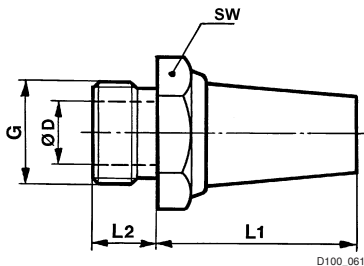


P100\_060

Working pressure min./max. 0 bar / 10 bar  
Ambient temperature min./max. -25°C / +80°C  
Medium Compressed air

Materials:  
Silencers Sintered bronze  
Thread Brass

Dimensions



D100\_061

Part No.	Port G	Sound pressure level [db(A)]	Qn [l/min]	SW	Ø D	L1	L2	Weight [kg]	Delivery quantity [Piece]
<b>1827000006</b>	M5	72	460	7	2.5	15	5	0.004	10

Sound pressure level measured at 6 bar at 1 m distance



## Directional valves → Electrically operated

**Series 579, 589**  
 Accessories

**Silencers, Series SI1**


P579\_000

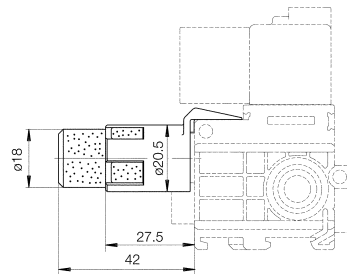
Working pressure min./max.  
 Ambient temperature min./max.  
 Medium  
 Sound pressure level

0 bar / 10 bar  
 -25 °C / +60 °C  
 Compressed air  
 78 dB

Materials:  
 Thread

Polypropylene

Qn	Weight	Delivery quantity	Part No.
[l/min]	[kg]	[Piece(s)]	
1300	0.008	1	<b>5790005312</b>
	0.08	10	<b>5790005332</b>
	0.8	100	<b>5790005352</b>

**Dimensions**


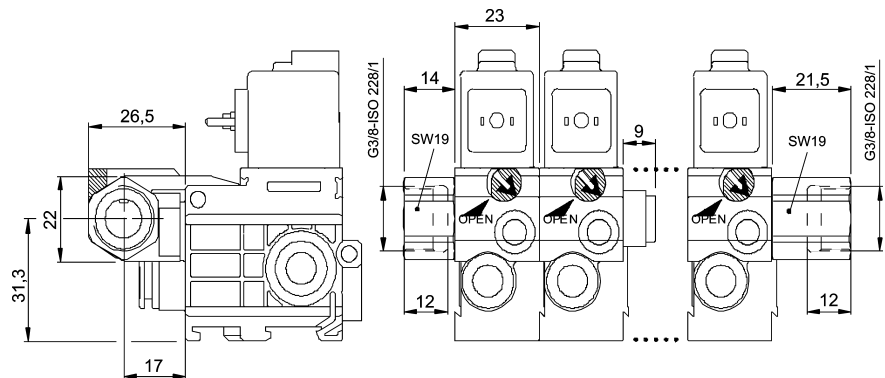
D579\_000

**Restricted exhaust, Series SI1**

► for series 579/589



P579\_200



00122784

Part No.	Type								
5790002202	Output module left side G 3/8								
5790002212	Stacking module								

## Directional valves → Electrically operated

**Series 579, 589**  
**Accessories**

Part No.	Type								
5790002222	End module								
5790002232	Output module left side 10x 1								
5790002242	Output module right side G 3/8								

**Silencers, Series SI1**
**► Sintered bronze**


P899\_380

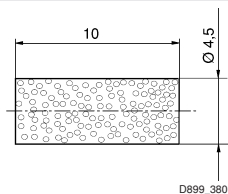
Working pressure min./max.  
 Ambient temperature min./max.  
 Medium

0 bar / 10 bar  
 -25°C / +80°C  
 Compressed air

Materials:  
 Silencers

Sintered bronze

Weight	Part No.
[kg]	
0.008	8993800114

**Dimensions**

**Threaded pins**
**► 579, 589**


P810\_206

Part No.	Port	Type	Delivery quantity [Piece]								
8102060582	M4	for mounting on the hat rail	50								

## Directional valves → Electrically operated

**Series 579, 589**  
 Accessories

**Name plates**


P894\_305

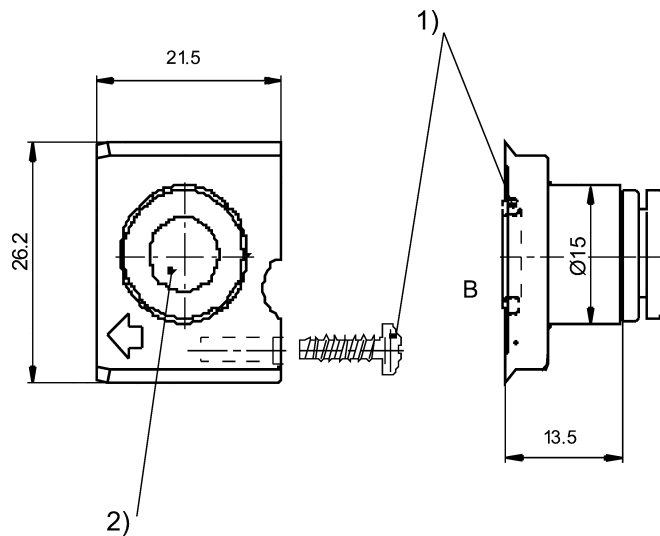
Part No.	Type	Delivery quantity [Piece]								
8943056312	1-10	5								
8943056322	11-20	5								

**Air connection module**

## ► with push-in fitting



00119252



00122783

- 1) mounting screw and O-ring included in scope of delivery  
 2) Push-in fitting Ø 8x1

Part No.	Material	Weight [kg]								
5790000092	Polyamide	0.008								

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