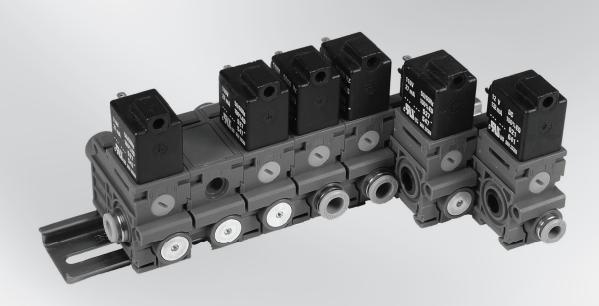


SERIES 579 & 589 PNEUMATIC DIRECTIONAL CONTROL VALVES

Pneumatics It's that easy





Series 579 and 589 Directional Control Valves Modular, economical, high flow

Takes modularity to a new level -

The AVENTICS Series 579 and 589 valves can be combined without tools by means of an ingenious dovetail design, or used as single, in-line valves. Available in 3/2 and 5/2 functions with solenoid or air pilot operators, the design types can be combined onto the same manifold easily. The light weight, yet durable, polymer construction results in a space-saving valve system with high flow rates (up to 0.85 C_v). The poppet valve design offers few wearing parts and delivers short response times—all at a low cost!



Modularity, on-line configurator

The dovetail design allows combining valves of different types, like 3/2 or 5/2, easily—without tools. Our on-line configurator allows you to design your own custom, factory-assembled manifold with inch or metric ports - without worrying about mistakes, and receive a part number immediately.

Lengthy features list:

- Light weight, space-saving, polymer design, inherent corrosion resistance
- High flow, up to 0.85 C_v
- Maintenance free, poppet design
- Short response times
- Common dovetail connection for combining valves and accessories
- Convenient, integrated push-in air line tube connections in 1/4", 5/16" (8mm) and 6mm — saves cost of fittings
- Use with or without air line lubrication
- Low power consumption
- Solenoid operators in a variety of voltages (110VAC, 24VDC,etc.) or air pilot
- 3/2 and 5/2 configurations
- Contact bridges for bus control
- Economically priced
- Wide variety of accessories
- On-line configurator for designing valve manifolds
- U.L. recognized coil



Mount using DIN rail, integral side mount or self tapping screw in bottom of valve. Snap-on coils can be reversed 180°.



Silencer options

Polymer silencer clips onto valve housing. Sintered bronze silencers available for pilot exhaust.

Environmentally friendly

Plug-in modules allow the piping away of manifold exhaust, or use a silencer.



Additional air connection

Optional module allows a second compressed air supply port for high air consumption applications or to supply from the opposite side. Multiple pressures can be fed into the valve manifold.

Electrical flexibility

Contact bridges are available for bus control options, or use lighted or non-lighted connectors.

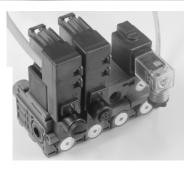


Table of Contents

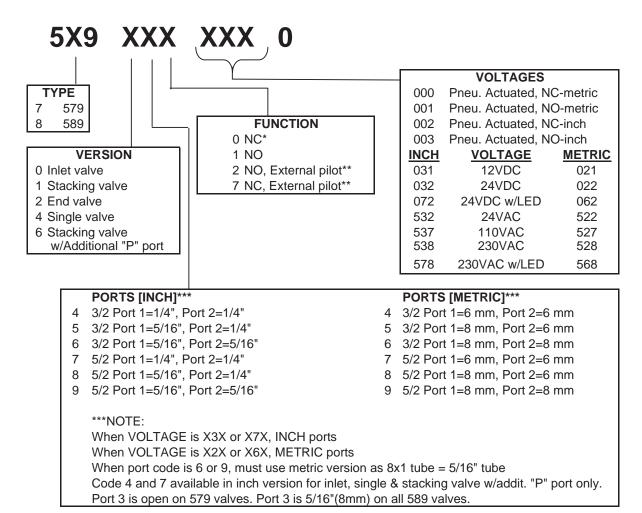


	Page
Part number model code for Series 579/589	_
Series 579 3/2 single valve, solenoid operated, NC	. 3
Series 579 3/2 valves for valve units, sol. operated, NC	. 5
Series 579 3/2 single valve, solenoid operated, NO	. 8
Series 579 3/2 valves for valve units, sol. operated NO	. 10
Series 579 3/2 single valve, sol. operated, NC, external pilot	. 13
Series 579 3/2 valves for valve units, sol. oper., NC, ext. pilot	. 15
Series 579 3/2 single valve, sol. operated, NO, external pilot	. 18
Series 579 3/2 valves for valve units, sol. oper., NO, ext. pilot	. 20
Series 579 5/2 single valve, solenoid operated	. 23
Series 579 5/2 valves for valve units, solenoid operated	. 25
Series 579 3/2 single valve, air pilot	. 28
Series 579 3/2 valves for valve units, air pilot	. 29
Series 589 3/2 single valve, solenoid operated, NC	. 31
Series 589 3/2 single valve, solenoid operated, NO	. 33
Series 589 3/2 single valve, solenoid operated, NC, ext. pilot	. 35
Series 589 3/2 single valve, solenoid operated, NO, ext. pilot	. 37
Series 589 5/2 single valve, solenoid operated	. 39
Series 589 3/2 single valve, air pilot	. 41
Series 579/589 valve units, electrical version 10-18	. 43
Series 579/589 valve units, electrical version 20-21	. 44
Series 579/589 valve units, electrical version 60	. 45
Series 579/589 valve units, electrical version 70-71	. 46
Connectors	. 47
Accessories	. 48
Contact bridges	. 52

Application area
The primary difference between the Series 579 and Series 589 is that the exhaust on the Series 589 can be throttled, and the Series 589 can also be used for vacuum applications.



Part Number Model Code for Series 579/589



- * Also applies to pneumatically actuated valves.
- ** External pilot port is always 5/32" (4 mm).

Application area

The primary difference between the Series 579 and Series 589 is that the exhaust on the Series 589 can be throttled, and the Series 589 can also be used for vacuum applications.

3/2 Single valve, solenoid operated, NC





Technical Data

Valve type Poppet valve Min. 2 bar (29 psi) Working pressure range

Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

Nominal flow rate See table

at 6 bar (87 psi), Δp = 1 bar (15 psi) Ambient temperature range See table -15 °C to +50 °C (at p_{max} = 8 bar) (+5 °F to +122 °F (at p_{max} = 116 psi)) Compressed air, lubricated or non-lubricated

Medium Weight 0.093 kg (0.205 lbs)

Materials Valve body

PA (Polyamide) NBR and PU (Nitrile Butadiene Rubber, Polyurethane) Seals

Voltage tolerances

60 Hz 50 Hz

DC ±10 % AC - 10 % + 15 % AC - 15 % + 10 % 1.6 W 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA B to VDE 0580 Power consumption 24 V DC without LED-indic. with LED-indic. 220 V AC 50/60 Hz Inrush power 220 V AC 50/60 Hz Holding power Insulation class

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470) (NEMA 4)

Duty cycle 100 % Switching times t_F fill t_F exhaust



Application area

Suitable for all mechanical control systems, especially corrosion proof or lightweight applications.

Part no. (met	ric)				
	Qn [l/min] (Cv)	Port 1	Port 2	Voltages	Part no. *
				12 V DC 24 V DC 24 V DC**	5794600210 5794600220 5794600620
	850 (0.85)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	24 V AC 110 V AC	5794605220 5794605270
2 TTVW				220/230 V AC 220/230 V AC ***	5794605280 5794605680
1 3				12 V DC 24 V DC	5794400210 5794400220
	520 (0.52)	tube 6 x 1	tube 6 x 1	24 V DC** 24 V AC	5794400620 5794405220
				110 V AC 220/230 V AC 220/230 V AC ***	5794405270 5794405280 5794405680

* without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) *** 220/ 230 V AC model with LED Other voltages on request.

Part no. (inch)

` `	<u></u>				
	Qn [l/min] (Cv)	Port 1	Port 2	Voltages	Part no. *
2 1 3 W	520 (0.52)	tube 1/4 "	tube 1/4 "	12 V DC 24 V DC 24 V DC** 24 V AC 110 V AC	5794400310 5794400320 5794400720 5794405320 5794405370
				220/230 V AC	5794405380
				220/230 V AC ***	5794405780

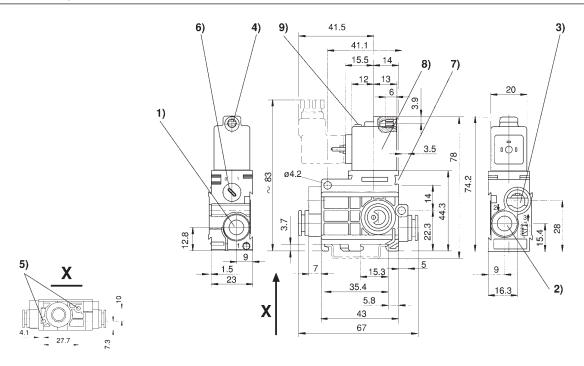
^{*} without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) *** 220/ 230 V AC model with LED other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Single valve, solenoid operated, NC



Accessory	Description			Part no.		
	Silencer, M5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer for port 3 Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	532400060 8993800114 5790005312 8102060582 8943056312 8943056322 8952203504 8993800164	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
П	See Connectors page					
	Voltage	24 V DC				
BUS	for BUS- and Multipin-systems Contact bridge with 0.2 m cable Contact bridge with 1 m cable	5763503113 5763513113				
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V A
~	Pilot valve	5420930210	5420930220	5420935220	5420935270	542093528
	with LED		5420940620 ¹⁾			542094568

1) and protected wiring



1) Port 1. 2) Port 2. 3) Port 3 exhaust air must not be throttled. 4) Pilot exhaust core dia. for M 5. 5) Pocket hole 6 deep for 3,5 self-tapping screw.
6) Manual override. 7) Mounting space for nameplate. 8) Coil can be rotated at 180° intervals. 9) LED.

3/2 Valves for valve units, solenoid operated, NC





Technical Data

Valve type Poppet valve Working pressure range Min. 2 bar (29 psi)

Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

Nominal flow rate Qn

For tube 6x1, 1/4 ", 520 l/min (0.52 Cv) For tube 8x1, 5/16 ", 850 l/min (0.85 Cv) at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi) -15 °C to +50 °C (at p_{max} = 8 bar) Ambient temperature range $(+5 \, ^{\circ}\text{F to } +122 \, ^{\circ}\text{F (at } p_{\text{max}} = 116 \, \text{psi)})$

Compressed air, lubricated or non-lubricated Medium

Weight 0.093 kg (0.205 lbs)

PA (Polyamide) Materials Valve body NBR and PU Seals

(Nitrile Butadiene Rubber, Polyurethane)

Voltage tolerances DC ± 10 %

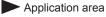
AC - 15 % + 10 % AC - 10 % + 15 % 1.6 W 50 Hz 60 Hz

Power consumption 24 V DC without LED display 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA with LED display 220 V AC 50/60 Hz Inrush power

Holding power Insulation class 220 V AC 50/60 Hz B to VDE 0580

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4)

Duty cycle Switching times t_F fill 18 ms t_E exhaust 16 ms



Suitable for all mechanical control systems, especially corrosion proof or lightweight applications.

Part no. for DC versions (metric) Description Port 1 Port 2 Fig. / Item no. Part no. * Part no. Part no. 24 V DC 24 V DC** tube 8 x 1 tube 6 x 1 5790500210 5790500220 5790500620 Inlet valve A and B / I 5790600210 5790600220 5790600620 tube 8 x 1 tube 8 x 1 A and B / I Stacking valve tube 6 x 1 B/III 5791500210 5791500220 5791500620 5791600210 5791600220 5791600620 tube 8 x 1 B/III tube 6 x 1 B/II 5796400210 5796400220 5796400620 tube 6 x 1 Stacking valve with B/II 5796500210 5796500220 5796500620 add, compressed air tube 8 x 1 tube 6 x 1 port B/II 5796600210 5796600220 5796600620 tube 8 x 1 tube 8 x 1 End valve tube 6 x 1 5792500210 5792500220 5792500620 tube 8 x 1 5792600210 5792600220 5792600620 tube 8 x 1 В 5790000092 5790000092 5790000092 Air conn. module

* without el. connector 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

Part no. for D	C versions (inch)						
	Description	Port 1	Port 2	Fig. / Item no.	Part no. * 12 V DC	Part no. * 24 V DC	Part no. * 24 V DC**
	Inlet valve	tube 1/4 " tube 5/16 " tube 5/16 "	tube 1/4 " tube 1/4 " tube 5/16 "	A and B / I A and B / I A and B / I	5790400310 5790500310 5790600210	5790400320 5790500320 5790600220	5790400720 5790500720 5790600620
	Stacking valve	_ _	tube 1/4 " tube 5/16 "	B / III B / III	5791500310 5791600210	5791500320 5791600220	5791500720 5791600620
2 1 3 W	Stacking valve with add. compressed air port	tube 1/4 " tube 5/16 "	tube 1/4 " tube 1/4 "	B/II B/II	5796400310 5796500310	5796400320 5796500320	5796400720 5796500720
	·	tube 5/16 "	tube 5/16 "	B/II	5796600210	5796600220	5796600620
	End valve	_	tube 1/4 " tube 5/16 "	-	5792500310 5792600210	5792500320 5792600220	5792500720 5792600620
	Air conn. module	tube 5/16 "	-	В	5790000092	5790000092	5790000092

* without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Valves for valve units, solenoid operated, NC



Part no. for AC versions (metric)							
	Description	Port 1	Port 2	Fig. / Item no.	Part no. * AC 24 V	Part no. * AC 110 V	
	Inlet valve	tube 8 x 1 tube 8 x 1	tube 6 x 1 tube 8 x 1	A and B / I A and B / I	5790505220 5790605220	5790505270 5790605270	
	Stacking valve	-	tube 6 x 1 tube 8 x 1	B / III B / III	5791505220 5791605220	5791505270 5791605270	
2 T T W	Stacking valve with add.	tube 6 x 1 tube 8 x 1	tube 6 x 1 tube 6 x 1	B/II B/II	5796405220 5796505220	5796405270 5796505270	
1 3	compressed air port	tube 8 x 1	tube 8 x 1	B/II	5796605220	5796605270	
	End valve		tube 6 x 1 tube 8 x 1	_ _	5792505220 5792605220	5792505270 5792605270	
b 201 (1 (2 1	Air conn. Module	tube 8 x 1	_	В	5790000092	5790000092	

^{*} without electrical connector other voltages on request

Part no. for A	C versions (inch)					
	Description	Port 1	Port 2	Fig. / Item no.	Part no. * 24 V AC	Part no. * 110 V AC
		tube 1/4 "	tube 1/4 "	A and B / I	5790405320	5790405370
	Inlet valve	tube 5/16 "		A and B / I	5790505320	5790505370
		tube 5/16 "	tube 5/16 "		5790605220	5790605270
	Stacking valve	-	tube 1/4 "	B/III	5791505320	5791505370
al		_	tube 5/16 "	B / III	5791605220	5791605270
		tube 1/4 "	tube 1/4 "	B/II	5796405320	5796405370
ZDILTITYW	Stacking valve with add. compressed air port	tube 5/16 "	tube 1/4 "	B/II	5796505320	5796505370
,, 10		tube 5/16 "	tube 5/16 "	B/II	5796605220	5796605270
	End valve	_	tube 1/4 "	-	5792505320	5792505370
		_	tube 5/16 "	_	5792605220	5792605270
	Air connection module	tube 5/16 "	_	В	5790000092	5790000092

^{*} without el. connector other voltages on request

Part no. for A	C versions (metric)					
	Description	Port 1	Port 2	Fig. / Item no.	Part no. * 220/230 V AC	Part no. * 220/230 V AC **
	Inlet valve	tube 8 x 1 tube 8 x 1	tube 6 x 1 tube 8 x 1	A and B / I A and B / I	5790505280 5790605280	5790505680 5790605680
	Stacking valve		tube 6 x 1 tube 8 x 1	B / III B / III	5791505280 5791605280	5791505680 5791605680
2 1 1 3	Stacking valve with add. compressed air port	tube 6 x 1 tube 8 x 1	tube 6 x 1	B/II B/II	5796405280 5796505280	5796405680 5796505680
	End valve	tube 8 x 1	tube 8 x 1	B / II	5796605280 5792505280	5796605680 5792505680
		_	tube 8 x 1	_	5792605280	5792605680
	Air connection module	tube 8 x 1	_	В	5790000092	5790000092

^{*} without el. connector other voltages on request ** 220/230 V AC model with LED

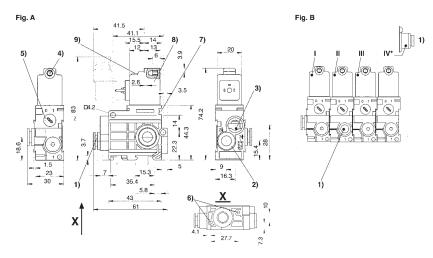
Part no. for A	C versions (inch)					
	Description	Port 1	Port 2	Fig. / Item no.	Part no. * 220/230 VAC	Part no. * 220/230VAC
		tube 1/4 "	tube 1/4 "	A and B / I	5790405380	5790405780
	Inlet valve	tube 5/16 "	tube 1/4 "	A and B / I	5790505380	5790505780
		tube 5/16 "	tube 5/16 "	A and B / I	5790605280	5790605680
	Stacking valve	-	tube 1/4 "	B/III	5791505380	5791505780
al.		_	tube 5/16 "	B/III	5791605280	5791605680
M T		tube 1/4 "	tube 1/4 "	B/II	5796405380	5796405780
ZDI TITYW	Stacking valve with add. compressed air port	tube 5/16 "	tube 1/4 "	B/II	5796505380	5796505780
11 13		tube 5/16 "	tube 5/16 "	B/II	5796605280	5796605680
	End valve	_	tube 1/4 "	_	5792505380	5792505780
		_	tube 5/16 "	_	5792605280	5792605680
	Air connection module	tube 5/16 "	_	В	5790000092	5790000092

other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Valves for valve units, solenoid operated, NC



Accessory	Description			Part no.		
·	Silencer, M 5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer for port 3 Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	532400060 8993800114 5790005312 8102060582 8943056312 8943056322 8952203504 8993800164	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
П	See Connectors page					
BUS	Voltage for BUS- and Multipin-systems Contact bridge with 0,2 m cable Contact bridge with 1 m cable	24 V DC 5763503113 5763513113				
×	Voltages Pilot valve with LED	12 V DC 5420930210	24 V DC 5420930220 5420940620 1)	24 V AC 5420935220	110 V AC 5420935270	220/230 V AC 5420935280 5420945680



1) Port 1. 2) Port 2. 3) Port 3 (without tube fitting)exhaust air must not be throttled. 4) Pilot exhaust core dia. for M 5. 5) Manual override. 6) Pocket hole 6 deep for 3,5 self-tapping screw. 7) Mounting space for nameplate. 8) Coil can be rotated at 180° 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.

3/2 Single valve, solenoid operated, NO





Technical Data

Valve type Poppet valve Working pressure range

Min. 2 bar (29 psi) Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

Nominal flow rate Qn at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi) Ambient temperature range See table

See table -15 °C to +50 °C (at p_{max} = 8 bar) (+5 °F to +122 °F (at p_{max} = 116 psi)) Compressed air, lubricated or non-lubricated

Medium Weight 0.093 kg (0.205 lbs)

Materials Valve body Seals

PA (Polyamide) NBR and PU (Nitrile Butadiene Rubber,Polyurethane)

Voltage tolerances

60 Hz 50 Hz

DC ±10 % AC - 10 % + 15 % AC - 15 % + 10 % 1.6 W 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA B to VDE 0580 Power consumption 24 V DC without LED display with LED display 220 V AC 50/60 Hz Inrush power 220 V AC 50/60 Hz Holding power

Insulation class Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4)

Duty cycle 100 % Switching times t_F fill t_F exhaust



Application area

Suitable for all mechanical control systems, especially corrosion proof or lightweight applications.

	Qn [l/min] (Cv)	Port 1	Port 2	Voltages	Part no. *
				12 V DC 24 V DC 24 V DC**	5794610210 5794610220 5794610620
	600 (0.60)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	24 V AC	5794615220
		, ,	, ,	110 V AC	5794615270
2				220/230 V AC	5794615280
} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				220/230 V AC ***	5794615680
75 - 1 - W				12 V DC	5794410210
				24 V DC	5794410220
				24 V DC**	5794410620
	520 (0.52)	tube 6 x 1	tube 6 x 1	24 V AC	5794415220
				110 V AC	5794415270
				220/230 V AC	5794415280
				220/230 V AC ***	5794415680

* without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) *** 220/ 230 V AC model with LED other voltages on request

Part no. (inch)

Part no. (inch)				
	Qn [l/min] (Cv)	Port 1	Port 2	Voltages	Part no. *
				12 V DC	5794410310
				24 V DC	5794410320
2				24 V DC**	5794410720
	520 (0.52)	tube 1/4 "	tube 1/4 "	24 V AC	5794415320
1 3				110 V AC	5794415370
				220/230 V AC	5794415380
				220/230 V AC ***	5794415780

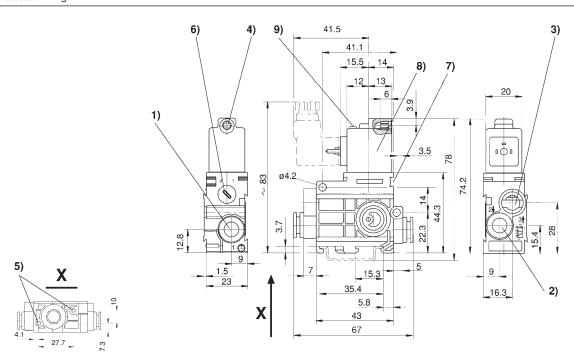
^{*} without el. connector ** 24 V m *** 220/ 230 V AC model with LED ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Single valve, solenoid operated, NO



Accessory	Description			Part no.		
	Silencer, M 5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer for port 3 Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	532400060 8993800114 5790005312 8102060582 8943056312 8943056322 8952203504 8993800164	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
Щ	See Connectors page					
	Voltage	24 V DC				
BUS	for BUS- and Multipin-systems Contact bridge with 0,2 m cable Contact bridge with 1 m cable	5763503113 5763513113				
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V A
~	Pilot valve	5420930210	5420930220	5420935220	5420935270	542093528
	with LED		5420940620 ¹⁾			542094568

1) and protected wiring



1) Port 1 2) Port 2 3) Port 3 exhaust air must not be throttled. 4) Pilot exhaust core dia. for M 5 5) Pocket hole 6 deep for 3,5 self-tapping 6) Manual override 7) Mounting space for nameplate 8) Coil can be rotated at 180° intervals 9) LED

3/2 Valves for valve units, solenoid operated, NO





Technical Data

Valve type Poppet valve Working pressure range Min. 2 bar (29 psi)

Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

Nominal flow rate

For tube 6x1 or 1/4 " 520 l/min (0.52 Cv) For tube 8x1 or 5/16 ", 600 l/min (0.60 Cv) at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi) -15 °C to +50 °C (at $p_{max} = 8$ bar) Ambient temperature range

 $(+5 \, ^{\circ}\text{F to} + 122 \, ^{\circ}\text{F} (at \, p_{\text{max}} = 116 \, psi))$ Compressed air, lubricated or non-lubricated Medium

0.093 kg (0.205 lbs) Weight

PA (Polyamide) Materials Valve body NBR and PU Seals

(Nitrile Butadiene Rubber, Polyurethane)

Voltage tolerances

DC ± 10 % AC - 15 % + 10 % AC - 10 % + 15 % 50 Hz 60 Hz

Power consumption 24 V DC without LED display 1.6 W 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA with LED display 220 V AC 50/60 Hz Inrush power

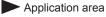
Holding power Insulation class 220 V AC 50/60 Hz B to VDE 0580

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4) Duty cycle

Switching times t_F fill 18 ms t_∈ exhaust 16 ms

Part no. for DC versions (inch)

End valve



Suitable for all mechanical control systems, especially corrosion proof or lightweight applications.

Part no. for D	C versions (metric)						
	Description	Port 1	Port 2	Fig. / Item no.	Part no. * 12 V DC	Part no. * 24 V DC	Part no. * 24 V DC**
	Inlet valve	tube 8 x 1 tube 8 x 1	tube 6 x 1 tube 8 x 1	A and B / I A and B / I	5790510210 5790610210	5790510220 5790610220	5790510620 5790610620
	Stacking valve		tube 6 x 1 tube 8 x 1	B / III B / III	5791510210 5791610210	5791510220 5791610220	5791510620 5791610620
1 T 3 W	Stacking valve with add. compressed air port	tube 6 x 1 tube 8 x 1	tube 6 x 1 tube 6 x 1	B/II B/II	5796410210 5796510210	5796410220 5796510220	5796410620 5796510620
	End valve	tube 8 x 1	tube 8 x 1	B/II –	5796610210 5792510210	5796610220 5792510220	5796610620 5792510620
		_	tube 8 x 1	_	5792610210	5792610220	5792610620
	Air conn. module	tube 8 x 1	_	В	5790000092	5790000092	5790000092

* without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

Description Fig. / Item Part no. * Part no. * 24 V DC** Port 1 Port 2 Part no. 24 V DC no. tube 1/4 " A and B / I 5790410310 5790410320 5790410720 tube 1/4 " tube 1/4 " Inlet valve tube 5/16 A and B / I 5790510310 5790510320 5790510720 tube 5/16 " tube 5/16 " A and B / I 5790610210 5790610220 5790610620 Stacking valve tube 1/4 ' B/III 5791510310 5791510320 5791510720 tube 5/16 " B/III 5791610210 5791610220 5791610620 tube 1/4 " tube 1/4 ' B/II 5796410310 5796410320 5796410720 Stacking valve with add. tube 5/16 tube 1/4 " B/II 5796510310 5796510320 5796510720 compressed air port tube 5/16 " tube 5/16 " B/II 5796610210 5796610220 5796610620

tube 1/4 "

tube 5/16

5792510310

5792610210

5792510320

5792610220

5792510720

5792610620

tube 5/16 В 5790000092 Air conn. module 5790000092 5790000092 * without el. connector 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request



3/2 Valves for valve units, solenoid operated, NO



Part no. for AC versions (metric) Description Fig. / Item Port 1 Port 2 Part no. * Part no. 24 V AC 110 V AC no. A and B / I 5790515220 tube 8 x 1 tube 6 x 1 5790515270 Inlet valve tube 8 x 1 tube 8 x 1 A and B / I 5790615220 5790615270 Stacking valve tube 6 x 1 B / III 5791515220 5791515270 tube 8 x 1 B/III 5791615220 5791615270 tube 6 x 1 tube 6 x 1 B/II 5796415220 5796415270 Stacking valve with add. compressed air port tube 8 x 1 tube 6 x 1 B/II 5796515220 5796515270 B/II 5796615220 5796615270 tube 8 x 1 tube 8 x 1 End valve tube 6 x 1 5792515220 5792515270 tube 8 x 1 5792615220 5792615270 В Air conn. Module tube 8 x 1 5790000092 5790000092

^{*} without electrical connector other voltages on request

Part no. for A	C versions (inch)					
	Description	Port 1	Port 2	Fig. / Item no.	Part no. * 24 V AC	Part no. * 110 V AC
		tube 1/4 "	tube 1/4 "	A and B / I	5790415320	5790415370
	Inlet valve	tube 5/16 "	tube 1/4 "	A and B / I	5790515320	5790515370
		tube 5/16 "	tube 5/16 "	A and B / I	5790615220	5790615270
	Stacking valve	_	tube 1/4 "	B / III	5791515320	5791515370
		_	tube 5/16 "	B / III	5791615220	5791615270
		tube 1/4 "	tube 1/4 "	B/II	5796415320	5796415370
ZDITALI TW	Stacking valve with add. compressed air port	tube 5/16 "	tube 1/4 "	B/II	5796515320	5796515370
1 3		tube 5/16 "	tube 5/16 "	B/II	5796615220	5796615270
	End valve	_	tube 1/4 "	_	5792515320	5792515370
		_	tube 5/16 "	_	5792615220	5792615270
	Air conn. Module	tube 5/16 "	_	В	5790000092	5790000092

^{*} without electrical connector other voltages on request

Part no. for	AC versions (metric)					
	Description	Port 1	Port 2	Fig. / Item no.	Part no. * 220/230 V AC	Part no. * 220/230 V AC **
	Inlet valve	tube 8 x 1	tube 6 x 1	A and B / I	5790515280	5790515680
		tube 8 x 1	tube 8 x 1	A and B / I	5790615280	5790615680
	Stacking valve	-	tube 6 x 1	B/III	5791515280	5791515680
		_	tube 8 x 1	B / III	5791615280	5791615680
2		tube 6 x 1	tube 6 x 1	B/II	5796415280	5796415680
	Stacking valve with add. compressed air port	tube 8 x 1	tube 6 x 1	B/II	5796515280	5796515680
	·	tube 8 x 1	tube 8 x 1	B/II	5796615280	5796615680
	End valve	_	tube 6 x 1	_	5792515280	5792515680
		-	tube 8 x 1	_	5792615280	5792615680
	Air conn. Module	tube 8 x 1	_	В	5790000092	5790000092

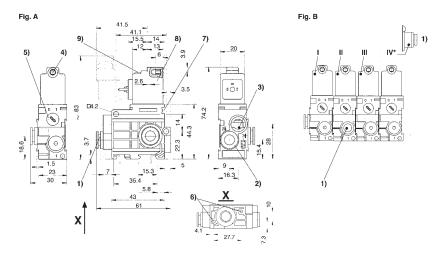
^{*} without el. connector ** 220/230 V AC model with LED other voltages on request

Part 110. 101	AC versions (inch)					
	Description	Port 1	Port 2	Fig. / Item no.	Part no. * 220/230 V AC	Part no. * 220/230 V AC
		tube 1/4 "	tube 1/4 "	A and B / I	5790415380	5790415780
	Inlet valve	tube 5/16 "	tube 1/4 "	A and B / I	5790515380	5790515780
		tube 5/16 "	tube 5/16 "	A and B / I	5790615280	5790615680
	Stacking valve	_	tube 1/4 "	B/III	5791515380	5791515780
		_	tube 5/16 "	B / III	5791615280	5791615680
2		tube 1/4 "	tube 1/4 "	B/II	5796415380	5796415780
	Stacking valve with add. compressed air port	tube 5/16 "	tube 1/4 "	B/II	5796515380	5796515780
		tube 5/16 "	tube 5/16 "	B/II	5796615280	5796615680
	End valve	_	tube 1/4 "	-	5792515380	5792515780
		_	tube 5/16 "	_	5792615280	5792615680
	Air conn. Module	tube 5/16 "	_	В	5790000092	5790000092

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Valves for valve units, solenoid operated, NO



Accessory	Description			Part no.		
	Silencer, M5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer for port 3 Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	532400060 8993800114 5790005312 8102060582 8943056312 8943056322 8952203504 8993800164	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
П	See Connectors page					
BUS	Voltages for BUS- and Multipin-systems Contact bridge with 0,2 m cable Contact bridge with 1 m cable	24 V DC 5763503113 5763513113				
1.	Voltages Pilot valve	12 V DC 5420930210	24 V DC 5420930220	24 V AC 5420935220	110 V AC 5420935270	220/230 V AC 5420935280
	with LED		5420940620 1)			5420945680



1) Port 1 2) Port 2 3) Port 3 exhaust air must not be throttled 4) Pilot exhaust core dia. for M 5 5) Manual override 6) Pocket hole 6 deep for 3,5 self-tapping screw 7) Mounting space for nameplate 8) Coil can be rotated at 180° 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.

3/2 Single valve, solenoid operated, NC, with external pilot





Technical Data

Valve type Poppet valve Working pressure range

Min. 0.5 bar (7 psi)
Max. 8 bar to +50 °C (Max. 116 psi to +122 °F)
Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)
2 to 10 bar (29 to 145 psi), but ≥ (port 1)

Pilot pressure range (port 12) Nominal flow rate Qn at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi) Ambient temperature range

-15 °C to +50 °C (at p_{max} = 8 bar) (+5 °F to +122 °F (at p_{max} = 116 psi)) Compressed air, lubricated or non-lubricated

Medium Weight 0.093 kg (0.205 lbs)

PA (Polyamide) Materials Valve body NBR and PU Seals

(Nitrile Butadiene Rubber, Polyurethane)

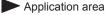
Voltage tolerances

DC ± 10 % AC - 15 % + 10 % AC - 10 % + 15 % 1.6 W 50 Hz

Power consumption 24 V DC Inrush power without LED display 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA B to VDE 0580 with LED display 220 V AC 50/60 Hz 220 V AC 50/60 Hz Holding power Insulation class

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4)

Duty cycle Switching times t_F fill 18 ms t_E exhaust 16 ms



Suitable for all mechanical control systems, especially corrosion proof or lightweight applications. Attention: Application for BUS-communication with contact bridge on request.

	Qn [l/min] (Cv)	Port 1	Port 2	Port 12	Voltages	Part no.*
					12 V DC	579467021
					24 V DC	579467022
		tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")		24 V DC **	579467062
2	850 (0.85)			tube 4 x 1 (5/32 ")	24 V AC	579467522
		, ,	, ,	` ′	110 V AC	579467527
					220/230 V AC	579467528
					220/230 V AC***	579467568
2 1 3					12 V DC	579447021
					24 V DC	579447022
					24 V DC **	579447062
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 4 x 1	24 V AC	579447522
	, ,				110 V AC	579447527
					220/230 V AC	579447528
					220/230 V AC***	579447568

other voltages on request

Part no. (inch	Part no. (inch)									
	Qn [l/min] (Cv)	Port 1	Port 2	Voltages	Part no. *	Part no. *				
					12 V DC	5794470310				
					24 V DC	5794470320				
2					24 V DC**	5794470720				
	520 (0.52)	tube 1/4 "	tube 1/4 "	tube 5/32 "	24 V AC	5794475320				
12 1 3					110 V AC	5794475370				
					220/230 V AC	5794475380				
					220/230 V AC ***	5794475780				

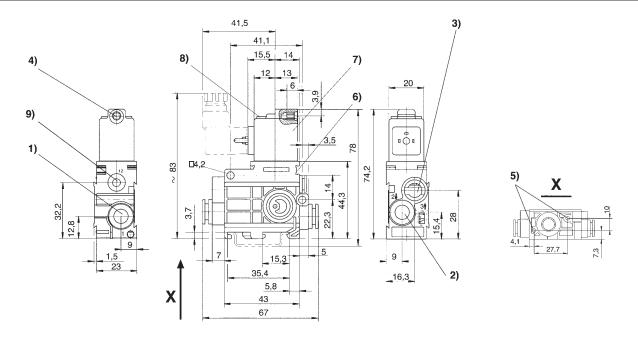
*without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection)
*** 220/ 230 V AC model with LED
other voltages on request



3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Single valve, solenoid operated, NC, with external pilot



Accessory	Description			Part no.		
	Silencer, M 5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer for port 3 Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	532400060 8993800114 5790005312 8102060582 8943056312 8943056322 8952203504 8993800164	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
П	See Connectors page					
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V AC
1	Pilot valve	5420930210	5420930220	5420935220	5420935270	5420935280
	with LED		5420940620 1)			5420945680



1) Port 1 2) Port 2 3) Port 3 exhaust air must not be throttled 4) Pilot exhaust core dia. for M 5 5) Pocket hole 6 deep for 3,5 self-tapping screw 6) Mounting space for nameplate 7) Coil can be rotated at 180° intervals 8) LED 9) Port 12

3/2 Valves for valve units, solenoid operated, NC, with external pilot





Technical Data

Valve type Poppet valve Min. 0.5 bar (7 psi) Working pressure range

Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

2 to 10 bar (29 to 145 psi), but ≥ (port 1) 520 l/min (0.52 Cv) for tube 6 x 1 850 l/min (0.85 Cv) for tube 8 x 1 Pilot pressure range (port 12) Nominal flow rate Qn at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi) Ambient temperature range $-15 \,^{\circ}\text{C} \text{ to } +50 \,^{\circ}\text{C} \text{ (at p}_{\text{max}} = 8 \text{ bar)}$

(+5 °F to +122 °F (at p_{max} = 116 psi)) Compressed air, lubricated or non-lubricated

Medium 0.093 kg (0.205 lbs) Weight

PA (Polyamide) Materials Valve body Seals NBR and PU

(Nitrile Butadiene Rubber, Polyurethane)

Voltage tolerances

DC ± 10 % AC - 15 % + 10 % AC - 10 % + 15 % 50 Hz

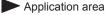
Power consumption without LED display 1.6 W

tube 8 x 1

24 V DC with LED display 220 V AC 50/60 Hz 1.7 W 3.1 / 2.7 VA Inrush power 2.2 / 1.9 VA Holding power Insulation class 220 V AC 50/60 Hz B to VDE 0580

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4)

Duty cycle Switching times t_F fill 18 ms t_F exhaust 16 ms



Suitable for all mechanical control systems, especially corrosion proof or lightweight applications. Attention: application for BUS-control with contact bridge on request.

Part no. for DC versions (metric) Description Port 1 Port 2 Port 12 Fig. / Item no. Part no.* Part no.* Part no.* 12 V DC 24 V DC 24 V DC** tube 8 x 1 5790570210 5790570220 5790570620 tube 6 x 1 tube 4 x 1 A and B / I Inlet valve tube 8 x 1 tube 8 x 1 5790670210 5790670620 A and B / I 5790670220 tube 4 x 1 Stacking valve tube 6 x 1 tube 4 x 1 B/II 5791570210 5791570220 5791570620 tube 8 x 1 tube 4 x 1 B/II 5791670210 5791670220 5791670620 tube 6 x 1 tube 6 x 1 tube 4 x 1 5796470210 5796470220 5796470620 Stacking valve with add. 5796570210 5796570220 tube 8 x 1 tube 6 x 1 tube 4 x 1 5796570620 compressed air port tube 8 x 1 tube 8 x 1 tube 4 x 1 5796670210 5796670220 5796670620 B / III End valve tube 6 x 1 tube 4 x 1 5792570210 5792570220 5792570620 5792670210 tube 8 x 1 tube 4 x 1 B / III 5792670220 5792670620 Air conn.

module * without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

B / IV

5790000092

5790000092

5790000092

Part no. for DC versions (inch) Description Port 1 Port 2 Port 12 Fig. / Item no. Part no.* Part no.* **Part no.*** 24 V DC** 12 V DC 24 V DC tube 1/4 " tube 1/4 " tube 5/32 A and B / I 5790470310 5790470320 5790470720 Inlet valve tube 5/16 " tube 1/4 " tube 5/32 " A and B / I 5790570310 5790570320 5790570720 tube 5/16 ' 5790670210 tube 5/16 ' tube 5/32 A and B / I 5790670220 5790670620 Stacking valve tube 1/4 tube 5/32 B/II 5791570310 5791570320 5791570720 tube 5/32 " tube 5/16 " B/II 5791670220 5791670220 5791670620 tube 1/4 " tube 1/4 ' 5796470310 5796470320 5796470720 tube 5/32 Stacking valve with add. tube 1/4 " tube 5/32 " 5796570310 5796570320 5796570720 tube 5/16 " compressed air port tube 5/16 " tube 5/16 " tube 5/32 " 5796670210 5796670220 5796670620 End valve tube 1/4 tube 5/32 B / III 5792570310 5792570320 5792570720 tube 5/16 " tube 5/32 " B/III 5792670210 5792670220 5792670620 Air conn B/IV tube 5/16 5790000092 5790000092 5790000092 module

^{*} without el. connector * 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Valves for valve units, solenoid operated, NC, with external pilot



	Description	Port 1	Port 2	Port 12	Fig. / Item no.	Part no. * 24 V AC	Part no. * 110 V AC
	Inlet valve	tube 8 x 1	tube 6 x 1	tube 4 x 1	A and B / I	5790575220	5790575270
2		tube 8 x 1	tube 8 x 1	tube 4 x 1	A and B / I	5790675220	579067527
	Stacking valve	_	tube 6 x 1	tube 4 x 1	B/II	5791575220	579157527
		_	tube 8 x 1	tube 4 x 1	B/II	5791675220	579167527
		tube 6 x 1	tube 6 x 1	tube 4 x 1	-	5796475220	579647527
7 T T WW	Stacking valve with add. compressed air port	tube 8 x 1	tube 6 x 1	tube 4 x 1	_	5796575220	579657527
		tube 8 x 1	tube 8 x 1	tube 4 x 1	_	5796675220	579667527
	End valve	_	tube 6 x 1	tube 4 x 1	B/III	5792575220	579257527
		-	tube 8 x 1	tube 4 x 1	B / III	5792675220	579267527
	Air conn. Module	tube 8 x 1	_	_	B / IV	5790000092	579000009

	Description	Port 1	Port 2	Port 12	Fig. / Item no.	Part no. * 24 V AC	Part no. * 110 V AC
	Inlet valve	tube 1/4 "	tube 1/4 "	tube 5/32 "	A and B / I	5790475320	5790475370
		tube 5/16 "	tube 1/4 "	tube 5/32 "	A and B / I	5790575320	5790575370
21		tube 5/16 "	tube 5/16 "	tube 5/32 "	A and B / I	5790675220	5790675270
	Stacking valve	_	tube 1/4 "	tube 5/32 "	B/II	5791575320	5791575370
		_	tube 5/16 "	tube 5/32 "	B/II	5791675220	5791675270
7 - T- T- W	Stacking valve with add.	tube 1/4 "	tube 1/4 "	tube 5/32 "	_	5796475320	5796475370
12 1 3	compressed air port	tube 5/16 "	tube 1/4 "	tube 5/32 "	_	5796575320	579657537
		tube 5/16 "	tube 5/16 "	tube 5/32 "	_	5796675220	5796675270
	End valve	_	tube 1/4 "	tube 5/32 "	B / III	5792575320	5792575370
		_	tube 5/16 "	tube 5/32 "	B / III	5792675220	579267527
	Air conn. Module	tube 5/16 "	_	_	B / IV	5790000092	579000009

Part no. for A	C versions (metric)						
	Description	Port 1	Port 2	Port 12	Fig. / Item no.	Part no. * 220/230 V AC	Part no. * 220/230 V AC *
	Inlet valve	tube 8 x 1 tube 8 x 1	tube 6 x 1 tube 8 x 1	tube 4 x 1 tube 4 x 1	A and B / I A and B / I	5790575280 5790675280	5790575680 5790675680
	Stacking valve		tube 6 x 1 tube 8 x 1	tube 4 x 1 tube 4 x 1	B/II B/II	5791575280 5791675280	5791575680 5791675680
2 12 1 3	Stacking valve with add. compressed air port	tube 6 x 1 tube 8 x 1	tube 6 x 1 tube 6 x 1	tube 4 x 1 tube 4 x 1	- -	5796475280 5796575280	5796475680 5796575680
	End valve	tube 8 x 1	tube 8 x 1 tube 6 x 1	tube 4 x 1 tube 4 x 1	B / III	5796675280 5792575280	5796675680 5792575680
	Air conn. module	tube 8 x 1	tube 8 x 1	tube 4 x 1	B / III B / IV	5792675280 5790000092	5792675680 5790000092

* without el. connector * other voltages on request ** 220/230 V AC model with LED

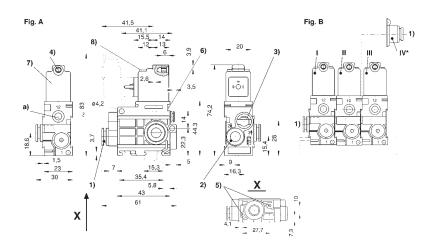
Part no. for A	C versions (inch)						
	Description	Port 1	Port 2	Port 12	Fig. / Item no.	Part no. * 220/230 V AC	Part no. * 220/230 V AC **
	Inlet valve	tube 1/4 " tube 5/16 "	tube 1/4 " tube 1/4 "	tube 5/32 " tube 5/32 "	A and B / I A and B / I	5790475380 5790575380	5790475780 5790575780
21	Stacking valve	tube 5/16 " - -	tube 5/16 " tube 1/4 " tube 5/16 "	tube 5/32 " tube 5/32 " tube 5/32 "	A and B / I B / II B / II	5790675280 5791575380 5791675280	5790675680 5791575780 5791675680
12 T 3 W	Stacking valve with add. compressed air port	tube 1/4 " tube 5/16 "	tube 1/4 " tube 1/4 "	tube 5/32 " tube 5/32 "	- -	5796475380 5796575380	5796475780 5796575780
	End valve	tube 5/16 "	tube 5/16 "	tube 5/32 "	 B / III	5796675280 5792575380	5796675680 5792575780
	Air conn. module	- tube 5/16 "	tube 5/16 "	tube 5/32 "	B / III B / IV	5792675280 5790000092	5792675680 5790000092

other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Valves for valve units, solenoid operated, NC, with external pilot



Accessory	Description			Part no.		
	Silencer, M5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer for port 3 Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	532400060 8993800114 5790005312 8102060582 8943056312 8943056322 8952203504 8993800164	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
П	See Connectors page					
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V AC
~	Pilot valve	5420930210	5420930220	5420935220	5420935270	5420935280
	with LED		5420940620 ¹⁾			5420945680



²⁾ Port 2 3) Port 3 exhaust air must not be throttled 4) Pilot exhaust core dia. for M 5 5) Pocket hole 6 deep for 3,5 self-tapping 1) Port 1

6) Mounting space for nameplate 7) Coil can be rotated at 180° intervals 8) LED 9) Port 12

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

3/2 Single valve, solenoid operated, NO, with external pilot





Technical Data

Valve type Poppet valve Min. 0.5 bar (7 psi) Working pressure range Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

2 to 10 bar (29 to 145 psi), but ≥ (port 1) Pilot pressure range (port 12) Nominal flow rate Qn at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi)

 $-15 \,^{\circ}\text{C} \text{ to } +50 \,^{\circ}\text{C} \text{ (at p}_{\text{max}} = 8 \text{ bar)}$ Ambient temperature range (+5 °F to +122 °F (at p_{max} = 116 psi))
Compressed air, lubricated or non-lubricated Medium

Weight 0.093 kg (0.205 lbs)

PA (Polyamide) Materials Valve body NBR and PU Seals

(Nitrile Butadiene Rubber, Polyurethane)

Voltage tolerances

DC ± 10 % AC - 15 % + 10 % AC - 10 % + 15 % 50 Hz 60 Hz

Power consumption 24 V DC without LED display 1.6 W 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA with LED display 220 V AC 50/60 Hz Inrush power Holding power Insulation class 220 V AC 50/60 Hz B to VDE 0580

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4)

Duty cycle Switching times 18 ms t_E exhaust 16 ms



Suitable for all mechanical control systems, especially corrosion proof or lightweight applications. Attention: Application for BUS-communication with contact bridge on request.

Part no. (metric) Qn [l/min] (Cv) Port 1 Port 2 Port 12 Voltages Part no.* 12 V DC 5794620210 24 V DC 5794620220 24 V DC ** 5794620620 tube 4 x 1 (5/32 ") tube 8 x 1 tube 8 x 1 600 (0.60) 24 V AC 5794625220 (5/16")(5/16") 110 V AC 5794625270 220/230 V AC 5794625280 220/230 V AC* 5794625680 12 V DC 5794420210 24 V DC 5794420220 24 V DC ** 5794420620 24 V AC 5794425220 520 (0.52) tube 6 x 1 tube 6 x 1 tube 4 x 1 110 V AC 5794425270 220/230 V AC 5794425280 220/230 V AC*** 5794425680

* without el. connector ** 24 V m *** 220/ 230 V AC model with LED ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection)

other voltages on request

Part no. (inch)					
	Qn [l/min] (Cv)	Port 1	Port 2	Port 12	Voltages	Part no. *
					12 V DC	5794420310
					24 V DC	5794420320
2					24 V DC**	5794420720
751-1-\ M	520 (0.52)	tube 1/4 "	tube 1/4 "	tube 5/32 "	24 V AC	5794425320
12 1 3					110 V AC	5794425370
					220/230 V AC	5794425380
					220/230 V AC ***	5794425780

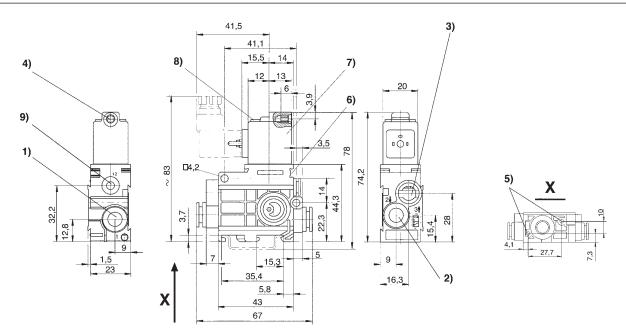
^{*} without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection)
*** 220/ 230 V AC model with LED other voltages on request



3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Single valve, solenoid operated, NO, with external pilot



Accessory	Description	Part no.				
•	Silencer, M 5, for pilot exhaust	5324000060				
	Silencer, push-in, for pilot exhaust	8993800114				
	Silencer for port 3	5790005312				
	Set screw	8102060582	50-pcs			
	Nameplates 1–10	8943056312	Pkg qty 5-pcs			
	Nameplates 11–20	8943056322	Pkg qty 5-pcs			
	Star washer Filter	8952203504 8993800164	100 pcs 10 pcs			
	1 IIICI	0993000104	10 pcs			
	See Connectors page					
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V AC
L	Pilot valve	5420930210	5420930220	5420935220	5420935270	5420935280
	with LED		5420940620 1)			5420945680



1) Port 1. 2) Port 2. 3) Port 3 exhaust air must not be throttled. 4) Pilot exhaust core dia. for M 5. 5) Pocket hole 6 deep for 3,5 selftapping screw.

6) Mounting space for name plate. 7) Coil can be rotated at 180° intervals. 8) LED. 9) Port 12.

3/2 Valves for valve units, solenoid operated, NO, with external pilot





Technical Data

Valve type Poppet valve Min. 0.5 bar (7 psi) Working pressure range Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F) 2 to 10 bar (29 to 145 psi), but ≥ (port 1) Pilot pressure range (port 12) Nominal flow rate Qn at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi) 600 l/min (0.60 Cv) -15 °C to +50 °C (at p_{max} = 8 bar) (+5 °F to +122 °F (at p_{max} = 116 psi)) Ambient temperature range Compressed air, lubricated or non-lubricated Medium 0.093 kg (0.205 lbs) Weight Materials Valve body PA (Polyamide) Seals NBR and PU (Nitrile Butadiene Rubber, Polyurethane)

DC ± 10 % AC - 15 % + 10 % AC - 10 % + 15 % 1.6 W Voltage tolerances 50 Hz 60 Hz without LED display

Power consumption 24 V DC 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA with LED display 220 V AC 50/60 Hz Inrush power Holding power Insulation class 220 V AC 50/60 Hz B to VDE 0580

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4)

Duty cycle Switching times 18 ms t_E exhaust 16 ms



Suitable for all mechanical control systems, especially corrosion proof or lightweight applications. Attention: Application for BUS-communication with contact bridge on request.

tube 8 x 1

Part no. for DC versions (metric) Fig. / Item Part no. * Description Port 1 Port 2 Port 12 Part no. * Part no. 12 V DC 24 V DC 24 V DC** no. tube 8 x 1 A and B / I 5790520210 5790520220 5790520620 Inlet valve tube 6 x 1 tube 4 x 1 5790620210 5790620220 5790620620 tube 8 x 1 tube 8 x 1 tube 4 x 1 A and B / I Stacking valve tube 6 x 1 tube 4 x 1 B/II 5791520210 5791520220 5791520620 tube 8 x 1 tube 4 x 1 B/II 5791620210 5791620220 5791620620 Stacking valve with add tube 6 x 1 tube 6 x 1 tube 4 x 1 5796420210 5796420220 5796420620 compressed air port tube 8 x 1 tube 6 x 1 tube 4 x 1 5796520210 5796520220 5796520620 tube 8 x 1 tube 4 x 1 tube 8 x 1 5796620210 5796620220 5796620620 Fnd valve tube 6 x 1 | tube 4 x 1 B / III 5792520210 5792520220 5792520620 B/III 5792620210 5792620220 5792620620 tube 8 x 1 tube 4 x 1

B/IV

5790000092

5790000092

5790000092

24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) * without el. connector other voltages on request

Part no. for DC versions (inch)

Air conn. module

	Description	Port 1	Port 2	Port 12	Fig. / Item	Part no. *	Part no. *	Part no. *
					no.	12 V DC	24 V DC	24 V DC**
	Inlet valve	tube 1/4 "	tube 1/4 "	tube 5/32 "	A and B / I	5790420310	5790420320	5790420720
		tube 5/16 "	tube 1/4 "	tube 5/32 "	A and B / I	5790520310	5790520320	5790520720
		tube 5/16 "	tube 5/16 "	tube 5/32 "	A and B / I	5790620210	5790620220	5790620620
	Stacking valve	_	tube 1/4 "	tube 5/32 "	B /II	5791520310	5791520320	5791520720
a.l		_	tube 5/16 "	tube 5/32 "	B /II	5791620210	5791620220	5791620620
M. J. C.	Stacking valve with add. compressed air port	tube 1/4 "	tube 1/4 "	tube 5/32 "	-	5796420310	5796420320	5796420720
1 13		tube 5/16 "	tube 1/4 "	tube 5/32 "	-	5796520310	5796520320	5796520720
		tube 5/16 "	tube 5/16 "	tube 5/32 "	_	5796620210	5796620220	5796620620
	End valve	_	tube 1/4 "	tube 5/32 "	B/III	5792520310	5792520320	5792520720
		_	tube 5/16 "	tube 5/32 "	B/III	5792620210	5792620220	5792620620
	Air conn. module	tube 5/16 "	_	_	B/IV	5790000092	5790000092	5790000092

^{*} without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Valves for valve units, solenoid operated, NO, with external pilot



Part no. for A	C versions (metric)						
	Description	Port 1	Port 2	Port 12	Fig. / Item no.	Part no. * 24 V DC	Part no. * 110 V AC
	Inlet valve	tube 8 x 1	tube 6 x 1	tube 4 x 1	A and B / I	5790525220	5790525270
		tube 8 x 1	tube 8 x 1	tube 4 x 1	A and B / I	5790625220	5790625270
	Stacking valve	_	tube 6 x 1	tube 4 x 1	B/II	5791525220	5791525270
		_	tube 8 x 1	tube 4 x 1	B/II	5791625220	5791625270
2	Stacking valve with add. compressed air port	tube 6 x 1	tube 6 x 1	tube 4 x 1	_	5796425220	5796425270
		tube 8 x 1	tube 6 x 1	tube 4 x 1	_	5796525220	5796525270
		tube 8 x 1	tube 8 x 1	tube 4 x 1	_	5796625220	5796625270
	End valve	_	tube 6 x 1	tube 4 x 1	B / III	5792525220	5792525270
		_	tube 8 x 1	tube 4 x 1	B / III	5792625220	5792625270
	Air conn. module	tube 8 x 1	_	_	B/IV	5790000092	5790000092

Part no. for A	C versions (inch)						
	Description	Port 1	Port 2	Port 12	Fig. / Item no.	Part no. * 24 V DC	Part no. * 110 V AC
	Inlet valve	tube 1/4 "	tube 1/4 "	tube 5/32 "	A and B / I	5790425320	5790425370
		tube 5/16 "	tube 1/4 "	tube 5/32 "	A and B / I	5790525320	5790525370
		tube 5/16 "	tube 5/16 "	tube 5/32 "	A and B / I	5790625220	5790625270
	Stacking valve	_	tube 1/4 "	tube 5/32 "	B/II	5791525320	5791525370
	-	_	tube 5/16 "	tube 5/32 "	B/II	5791625220	5791625270
		tube 1/4 "	tube 1/4 "	tube 5/32 "	_	5796425320	5796425370
	Stacking valve with add. compressed air port	tube 5/16 "	tube 1/4 "	tube 5/32 "	-	5796525320	5796525370
		tube 5/16 "	tube 5/16 "	tube 5/32 "	_	5796625220	5796625270
	End valve	_	tube 1/4 "	tube 5/32 "	B / III	5792525320	5792525370

tube 5/16

tube 5/16 "

tube 5/32 "

B/III

B/IV

5792625220

5790000092

5792625270

5790000092

other voltages on request

Part no. for A	C versions (metric)						
	Description	Port 1	Port 2	Port 12	Fig. / Item no.	Part no. * 220/230 V AC	Part no. * 220/230 V AC **
	Inlet valve	tube 8 x 1 tube 8 x 1	tube 6 x 1 tube 8 x 1	tube 4 x 1 tube 4 x 1	A and B / I A and B / I	5790525280 5790625280	5790525680 5790625680
	Stacking valve		tube 6 x 1 tube 8 x 1	tube 4 x 1 tube 4 x 1	B/II B/II	5791525280 5791625280	5791525680 5791625680
2 T T T W	Stacking valve with add. compressed air port	tube 6 x 1 tube 8 x 1 tube 8 x 1	tube 6 x 1 tube 6 x 1 tube 8 x 1	tube 4 x 1 tube 4 x 1 tube 4 x 1	- - -	5796425280 5796525280 5796625280	5796425680 5796525680 5796625680
	End valve	_ _ _	tube 6 x 1 tube 8 x 1	tube 4 x 1 tube 4 x 1	B / III B / III	5792525280 5792625280	5792525680 5792625680
	Air conn. module	tube 8 x 1	_	_	B / IV	5790000092	5790000092

^{*} without el. connector other voltages on request ** 220/230 V AC model with LED

Air conn. module

Part no. for A	C versions (inch)						
	Description	Port 1	Port 2	Port 12	Fig. / Item no.	Part no. * 220/230 V AC	Part no. * 220/230 V AC **
	Inlet valve	tube 1/4 " tube 5/16 "	tube 1/4 " tube 1/4 "	tube 5/32 " tube 5/32 "	A and B / I A and B / I	5790425380 5790525380	5790425780 5790525780
	Stacking valve	tube 5/16 " -	tube 5/16 " tube 1/4 " tube 5/16 "	tube 5/32 " tube 5/32 " tube 5/32 "	A and B / I B / II B / II	5790625280 5791525380 5791625280	5790625680 5791525780 5791625680
2 TW	Stacking valve with add. compressed air port	tube 1/4 "	tube 1/4 "	tube 5/32 "	B/II	5796425380	5796425780
1 3		tube 5/16 " tube 5/16 "	tube 1/4 " tube 5/16 "	tube 5/32 " tube 5/32 "	- -	5796525380 5796625280	5796525780 5796625680
	End valve		tube 1/4 " tube 5/16 "	tube 5/32 " tube 5/32 "	B / III B / III	5792525380 5792625280	5792525780 5792625680
	Air conn. module	tube 5/16 "	_	_	B / IV	5790000092	5790000092

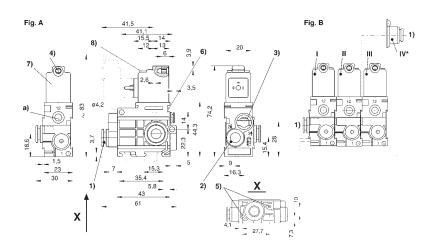
^{*} without el. connector ** 220/230 V AC model with LED other voltages on request

^{*} without el. connector other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 3/2 Valves for valve units, solenoid operated, NO, with external pilot



Accessory	Description	Part no.				
•	Silencer, M 5, for pilot exhaust	5324000060				
	Silencer, push-in, for pilot exhaust	8993800114				
	Silencer for port 3	5790005312				
	Set screw	8102060582	50-pcs			
	Nameplates 1–10	8943056312	Pkg qty 5-pcs			
	Nameplates 11–20	8943056322	Pkg qty 5-pcs			
	Star washer	8952203504	100 pcs			
	Filter	8993800164	10 pcs			
	See Connectors page					
_	goo comicotoro pago					
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V AC
1	Pilot valve	5420930210	5420930220	5420935220	5420935270	5420935280
	with LED		5420940620 ¹⁾			5420945680



¹⁾ Port 1 2) Port 2 3) Port 3 exhaust air must not be throttled 4) Pilot exhaust core dia. for M 5 5) Pocket hole 6 deep for 3,5 self-tapping

screw
6) Mounting space for nameplate 7) Coil can be rotated at 180° intervals 8) LED 9) Port 12
* Air conn. module (Item IV) mounted onto stacking valve (Item II) permits additional air supply from right hand side. End valve (Item III) not

5/2 Single valve, solenoid operated





Technical Data

Valve type Poppet valve Working pressure range Min. 2 bar (29 psi)

Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

Nominal flow rate Qn See table

at 6 bar (87 psi), ∆p = 1 bar (15 psi) Ambient temperature range -15 °C to +50 °C (at p_{max} = 8 bar) (+5 °F to +122 °F (at p_{max} = 116 psi))

Compressed air, lubricated or non-lubricated Medium Weight 0.133 kg (0.293 lbs)

Valve body Materials

Seals

PA (Polyamide) NBR and PU (Nitrile Butadiene Rubber, Polyurethane)

Voltage tolerances

50 Hz 60 Hz

DC ±10 % AC - 15 % + 10 % AC - 10 % + 15 % 1.6 W 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA B to VDE 0580 Power consumption 24 V DC without LED display with LED display 220 V AC 50/60 Hz 220 V AC 50/60 Hz Inrush power Holding power Insulation class

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470) (NEMA 4)

Duty cycle 100 % Switching times t_F fill t_F exhaust 28 ms



Suitable for all mechanical control systems, especially corrosion proof or lightweight applications.

	Qn [l/min] (Cv)	Port 1	Port 2 and 4	Voltages	Part no. *
	1(1)			12 V DC	5794900210
				24 V DC	5794900220
600 (0.6				24 V DC **	5794900620
	600 (0.60)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	24 V AC	5794905220
				110 V AC	5794905270
				220/230 V AC	5794905280
				220/230 V AC***	5794905680
DIT III /TM				12 V DC	5794700210
51 1113				24 V DC	5794700220
				24 V DC **	5794700620
	520 (0.52)	tube 6 x 1	tube 6 x 1	24 V AC	5794705220
				110 V AC	5794705270
				220/230 V AC	5794705280
				220/230 V AC***	5794705680

*Without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) *** 220/ 230 V AC model with LED other voltages on request

Part no. (inch)

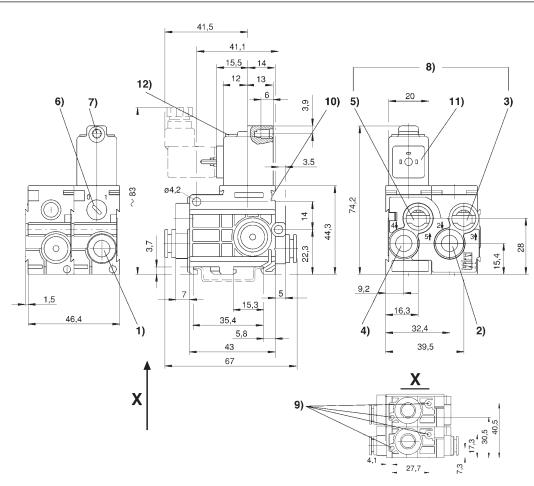
	Qn [l/min] (Cv)	Port 1	Port 2 and 4	Voltages	Part no. *
				12 V DC	5794700310
				24 V DC	5794700320
4 12				24 V DC **	5794700720
	520 (0.52)	tube 1/4 "	tube 1/4 "	24 V AC	5794705320
51 1113				110 V AC	5794705370
				220/230 V AC	5794705380
				220/230 V AC***	5794705780

^{*} Without el. connector ** 24 V m
*** 220/ 230 V AC model with LED other voltages on request ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection)

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 5/2 Single valve, solenoid operated



Accessory	Description	Part no.				
•	Silencer, M 5, for pilot exhaust	5324000060				
	Silencer, push-in, for pilot exhaust	8993800114				
	Silencer for port 3	5790005312				
	Set screw	8102060582	50-pcs			
	Nameplates 1–10	8943056312	Pkg qty 5-pcs			
	Nameplates 11–20 Star washer	8943056322	Pkg qty 5-pcs			
	Star Washer Filter	8952203504 8993800164	100 pcs 10 pcs			
			10 000			
44	See Connectors page					
	V	041450				
	Voltages	24 V DC				
<u> </u>	for BUS- and Multipin-systems	5763503113				
BUS	Contact bridge with 0,2 m cable Contact bridge with 1 m cable	5763513113				
	Contact bridge with 1 in cable	3/03313113				
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V A
~	Pilot valve	5420930210	5420930220	5420935220	5420935270	5420935280
	with LED		5420940620 ¹⁾			5420945680



1) Port 1. 2) Port 2. 3) Port 3. 4) Port 4. 5) Port 5. 6) Manual override. 7) Pilot exhaust core dia. for M 5. 8) Exhaust air must not be throttled. 9) Pocket hole 6 deep for 3,5 self-tapping screw. 10) Mounting space for nameplate. 11) Coil can be rotated at 180° intervals. 12) LED.

5/2 Valves for valve units, solenoid operated





Technical Data

Nominal flow rate Qn

Valve type Poppet valve Working pressure range Min. 2 bar (29 psi)

MIN. 2 Dar (29 ps);
Max. 8 bar to +50 °C (Max. 116 psi to +122 °F)
Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)
For tube 6x1 or 1/4 " ,520 l/min (0.52 Cv)
For tube 8x1 or 5/16 ", 600 l/min (0.60 Cv)
-15 °C to +50 °C (at p_{max} = 8 bar)
/+5° E to +122° E (at p = 116 psi))

at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi) Ambient temperature range (+5° F to +122° F (at p_{max} = 116 psi)) Compressed air, lubricated or non-lubricated Medium

Weight 0.133 kg (0.293 lbs)

Valve body Materials Seals

PA (Polyamide) NBR and PU (Nitrile Butadiene Rubber, Polyurethane)

Voltage tolerances

DC ± 10 % AC - 15 % + 10 % AC - 10 % + 15 % 50 Hz 60 Hz

1.6 W 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA B to VDE 0580 Power consumption 24 V DC without LED display with LED display 220 V AC 50/60 Hz Inrush power 220 V AC 50/60 Hz Holding power Insulation class

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470) (NEMA 4)

Duty cycle 100 % Switching times t_F fill t_F exhaust 28 ms



Application area

Suitable for all mechanical control systems, especially corrosion proof or lightweight applications.

Part no. for D	C versions (metric)						
	Description	Port 1	Port 2 and 4	Fig. / Item no.	Part no. * 12 V DC	Part no. * 24 V DC	Part no. * 24 V DC**
	Inlet valve	tube 8 x 1 tube 8 x 1	tube 6 x 1 tube 8 x 1	A and B / I A and B / I	5790800210 5790900210	5790800220 5790900220	5790800620 5790900620
	Stacking valve		tube 6 x 1 tube 8 x 1	B/V B/V	5791800210 5791900210	5791800220 5791900220	5791800620 5791900620
4 1 ² 5 113	Stacking valve with add. compressed air port	tube 6 x 1 tube 8 x 1	tube 6 x 1 tube 6 x 1	B/II B/II	5796700210 5796800210	5796700220 5796800220	5796700620 5796800620
01 1110	<u> </u>	tube 8 x 1	tube 8 x 1	B/II	5796900210	5796900220	5796900620
	End valve	_	tube 6 x 1	B/III B/III	5792800210 5792900210	5792800220 5792900220	5792800620 5792900620

B/IV 5790000092 5790000092 tube 8 x 1 Air conn. module * without el. connector 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

Part no. for DC versions (inch)

	<u> </u>						
	Description	Port 1	Port 2 and	Fig. / Item	Part no. *	Part no. *	Part no. *
	·		4	no.	12 V DC	24 V DC	24 V DC**
		tube 1/4 "	tube 1/4 "	A and B / I	5790700310	5790700320	5790700720
	Inlet valve	tube 5/16 "	tube 1/4 "	A and B / I	5790800310	5790800320	5790800720
		tube 5/16 "	tube 5/16 "	A and B / I	5790900210	5790900220	5790900620
	Stacking valve	_	tube 1/4 "	B/V	5791800310	5791800320	5791800720
		-	tube 5/16 "	B/V	5791900210	5791900220	5791900620
4 12		tube 1/4 "	tube 1/4 "	B/II	5796700310	5796700320	5796700720
75 - W	Stacking valve with add. compressed air port	tube 5/16 "	tube 1/4 "	B/II	5796800310	5796800320	5796800720
00	·	tube 5/16 "	tube 5/16 "	B/II	5796900210	5796900220	5796900620
	End valve	_	tube 1/4 "	B/III	5792800310	5792800320	5792800720
		_	tube 5/16 "	B / III	5792900210	5792900220	5792900620
	Air conn. module	tube 5/16 "	_	B/IV	5790000092	5790000092	5790000092

^{*} without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 5/2 Valves for valve units, solenoid operated



Part no. for A	C versions (metric)					
	Description	Port 1	Port 2 and 4	Fig. / Item no.	Part no. * 24 V AC	Part no. * 110 V AC
4 1 ² 7 7 7 7 7 7 7 7 7 7	Inlet valve	tube 8 x 1 tube 8 x 1	tube 6 x 1 tube 8 x 1	A and B / I A and B / I	5790805220 5790905220	5790805270 5790905270
	Stacking valve		tube 6 x 1 tube 8 x 1	B/V B/V	5791805220 5791905220	5791805270 5791905270
	Stacking valve with add.	tube 6 x 1 tube 8 x 1	tube 6 x 1 tube 6 x 1	B/II B/II	5796705220 5796805220	5796705270 5796805270
	compressed air port	tube 8 x 1	tube 8 x 1	B/II	5796905220	5796905270
	End valve	<u>-</u> -	tube 6 x 1 tube 8 x 1	B / III B / III	5792805220 5792905220	5792805270 5792905270
	Air conn. module	tube 8 x 1	-	B / IV	5790000092	5790000092

* without el. connector other voltages on request

Part no. for A	C versions (inch)					
	Description	Port 1	Port 2 and 4	Fig. / Item no.	Part no. * 24 V AC	Part no. * 110 V AC
	Inlet valve	tube 1/4 " tube 5/16 " tube 5/16 "	tube 1/4 " tube 1/4 " tube 5/16 "	A and B / I A and B / I A and B / I	5790705320 5790805320 5790905220	5790705370 5790805370 5790905270
4 1 2 7 7 1 7 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	Stacking valve	- -	tube 1/4 " tube 5/16 "	B/V B/V	5791805320 5791905220	5791805370 5791905270
	Stacking valve with add. compressed air port	tube 1/4 " tube 5/16 "	tube 1/4 " tube 1/4 "	B / II B / II	5796705320 5796805320	5796705370 5796805370
		tube 5/16 "	tube 5/16 "	B/II	5796905220	5796905270
	End valve	_ _	tube 1/4 " tube 5/16 "	B / III B / III	5792805320 5792905220	5792805370 5792905270
	Air conn. module	tube 5/16 "	_	B/IV	5790000092	5790000092

^{*} without el. connector other voltages on request

	Description	Port 1	Port 2 and 4	Fig. / Pos. Nr	Part no. * 220/230 V AC	Part no. * 220/230 V AC **
	Inlet valve	tube 8 x 1	tube 6 x 1	A and B / I	5790805280	5790805680
4 24 12		tube 8 x 1	tube 8 x 1	A and B / I	5790905280	5790905680
	Stacking valve	_	tube 6 x 1	B/V	5791805280	5791805680
		_	tube 8 x 1	B/V	5791905280	5791905680
		tube 6 x 1	tube 6 x 1	B/II	5796705280	5796705680
75 1 1 / w	Stacking valve with add. compressed air port	tube 8 x 1	tube 6 x 1	B/II	5796805280	5796805680
31 1110		tube 8 x 1	tube 8 x 1	B/II	5796905280	5796905680
	End valve	_	tube 6 x 1	B / III	5792805280	5792805680
		_	tube 8 x 1	B / III	5792905280	5792905680
	Air conn. module	tube 8 x 1	_	B / IV	5790000092	5790000092

^{*} without el. connector other voltages on request 220/230 V AC model with LED

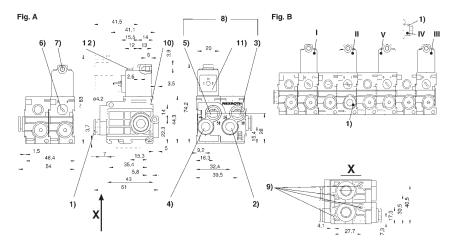
Part no. for A	C versions (inch)					
	Description	Port 1	Port 2 and 4	Fig. / Item no.	Part no. * 220/230 V AC	Part no. * 220/230 V AC **
	Inlet valve	tube 1/4 " tube 5/16 "	tube 1/4 " tube 1/4 "	A and B / I A and B / I	5790705380 5790805380	5790705780 5790805780
	Stacking valve	tube 5/16 " -	tube 5/16 " tube 1/4 " tube 5/16 "	A and B / I B / V B / V	5790905280 5791805380 5791905280	5790905680 5791805780 5791905680
4 12	Stacking valve with add.	tube 1/4 "	tube 1/4 "	B / II	5796705380	5796705780
7 1 1 7 MW 51 11 13	compressed air port	tube 5/16 " tube 5/16 "	tube 1/4 " tube 5/16 "	B/II B/II	5796805380 5796905280	5796805780 5796905680
	End valve	_ _ _	tube 1/4 " tube 5/16 "	B / III B / III	5792805380 5792905280	5792805780 5792905680
	Air conn. module	tube 5/16 "	_	B / IV	5790000092	5790000092

^{*} without el. connector ** AC 220/230 V model with LED other voltages on request

3/2 and 5/2 Valve Series 579, ND 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. 5/2 Valves for valve units, solenoid operated



Accessory	Description	Part no.				
·	Silencer, M 5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer for port 3 Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	532400060 8993800114 5790005312 8102060582 8943056312 8943056322 8952203504 8993800164	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
П	See Connectors page					
BUS	Voltage Contact bridge with 0,2 m cable Contact bridge with 1 m cable	24 V DC 5763503113 5763513113				
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V A
~	Pilot valve	5420930210	5420930220	5420935220	5420935270	5420935280
	with LED		5420940620 ¹⁾			5420945680



- 1) Port 1 2) Port 2 3) Port 3 4) Port 4 5) Port 5 6) Manual override 7) Pilot exhaust core dia. for M 5 8) Exhaust air must not be throttled 9) Pocket hole 6 deep for 3,5 self-tapping screw 10) Mounting space for nameplate 11) Coil can be rotated at 180° intervals 12) 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.

Single valve, air pilot





Technical Data

Valve type Operating pressure (port 1)

Poppet valve Min. 0,5 bar (7 psi)
Max. 8 bar to +60 °C (Max 116 psi to +140 °F)
Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)
2 to 10 bar (29 to 145 psi), but ≥ port 1
See table

-15 °C to +60 °C (5 °F to +140 °F)

Pilot pressure range (port 12) Nominal flow rate Qn at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi) Ambient temperature range

(at $p_{max} = 8 \text{ bar } (116 \text{ psi}))$ Compressed air, lubricated or non-lubricated 0,042 kg (0.093 lbs) Valve body

PA (Polyamide) NBR and PU (Nitrile Butadien Rubber), Materials Seals

(Polyurethane)

Medium Weight

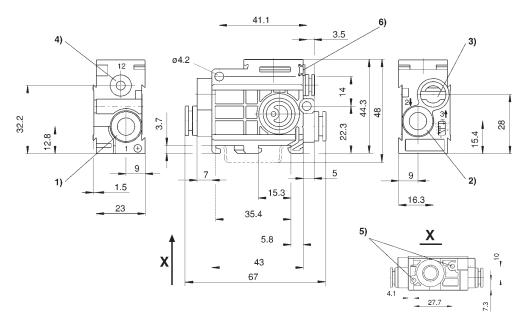


Application area

Suitable for all mechanical control systems in stationary applications, especially corrosion proof or lightweight applications.

	Port 1	Port 2	Port 12	Qn [l/min] (Cv)	Part no.
12	tube 6 x 1 tube 8 x 1 (5/16 ")	tube 6 x 1 tube 8 x 1 (5/16 ")	tube 4 x 1 tube 4 x 1 (5/32 ")	520 (0.52) 850 (0.85)	5794400000 5794600000
2 T T W	tube 1/4 "	tube 1/4 "	tube 5/32 "	520 (0.52)	5794400020
	tube 6 x 1	tube 6 x 1	tube 4 x 1	520 (0.52)	5794400010
7-1- W	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	600 (0.6)	5794600010
31 11 W	tube 1/4 "	tube 1/4 "	tube 5/32 "	520 (0.52)	5794400030

Accessories (to be ordered separately)				
Accessory	Description	Part no.		
	Silencer	5790005312		
	Set screw	8102060582	order qty. 50-pcs	
	Nameplates 1–10	8943056312	order qty. 5-pcs	
	Nameplates 11–20	8943056322	order qty. 5-pcs	



- 1) Port 1 2) Port 2 3) Port 3 exhaust air must not be throttled 4) Port 12 5) Pocket hole 6 deep for 3,5 self-tapping screw 6) Mounting space for nameplate

3/2 Valve, Series 579, ND4, 6x1 or 8x1 mm dia.

Valve unit, air pilot





3Technical Data

Valve type Operating pressure (port 1)

Poppet valve

Min. 0,5 bar (7 psi)
Max. 8 bar to +60 °C (Max 116 psi to +140 °F)
Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)
2 to 10 bar (29 to 145 psi), but ≥ port 1

Pilot pressure range (port 12) Nominal flow rate Qn at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi)

normally closed 850 I/min (0.85 Cv) normally open

Ambient temperature range

850 I/min (0.85 CV)
600 I/min (0.6 CV)
-15 °C to +60 °C (5 °F to +140 °F)
(at p_{max} = 8 bar (116 psi))
Compressed air, lubricated or non-lubricated
0,042 kg (0.093 lbs)
PA Medium

Weight Materials

Valve body Seals NBR and PU



Application area

Suitable for all mechanical control systems in stationary applications, especially corrosion proof or lightweight applications.

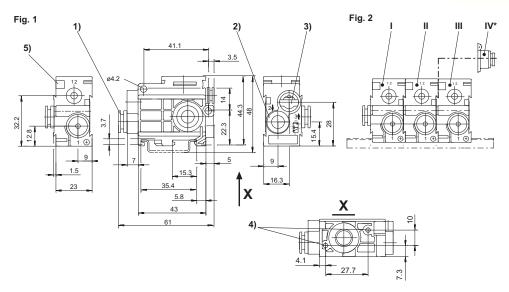
Inlet valve Stacking valve End valve	tube 8 x 1 - -	tube 8 x 1 tube 8 x 1 tube 8 x 1	tube 4 x 1 tube 4 x 1 tube 4 x 1	A and B / I B / II	579060000 579160000
End valve	_	tube 8 x 1	tube 4 v 1	D / III	
			tube 4 X I	B / III	579260000
Inlet valve	tube 8 x 1	tube 8 x 1	tube 4 x 1	A and B / I	579060001
Stacking valve	_	tube 8 x 1	tube 4 x 1	B/II	579160001
End valve	-	tube 8 x 1	tube 4 x 1	B / III	579260001
Air conn. module	tuha 8 v 1			B / IV	579000009
	Stacking valve	Stacking valve – End valve –	Stacking valve – tube 8 x 1 End valve – tube 8 x 1	Stacking valve — tube 8 x 1 tube 4 x 1 End valve — tube 8 x 1 tube 4 x 1	Stacking valve - tube 8 x 1 tube 4 x 1 B / II End valve - tube 8 x 1 tube 4 x 1 B / III

Accessories (to be ordered separately)					
Accessory	Description	Part no.			
,	Silencer	5790005312			
	Set screw	8102060582	order qty. 50-pcs.		
	Nameplates 1-10	8943056312	order qty. 5-pcs.		
	Nameplates 11-20	8943056322	order qty. 5-pcs.		

3/2 Valve, Series 579, ND4, 6x1 or 8x1 mm

Valve unit, air pilot





2) Port 2 3) Port 3 exhaust air must not be throttled 4) Pocket hole 6 deep for 3,5 self-tapping screw 5) Mounting space for

^{*} 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.

3/2 Single valve, solenoid operated, NC





55Technical Data

Valve type Poppet valve Working pressure range

min. 3 bar (44 psi) Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

min. 3 bar (44 psi) min. –0.95 bar (–14 psi) Vacuum Port 1: Port 3: Nominal flow rate Qn

at 6 bar (87 psi), ∆p = 1 bar (15 psi) See table

-15 °C to +50 °C (at p_{max} = 8 bar) (+5 °F to +122 °F (at p_{max} = 116 psi)) Compressed air, lubricated or non-lubricated Ambient temperature range

Medium Weight 0.093 kg (0.205 lbs)

PA (Polyamide) Materials Valve body Seals NBR and PU

(Nitrile Butadiene Rubber, Polyurethane)

DC ± 10 % Voltage tolerances

AC - 15 % + 10 % AC - 10 % + 15 % 1.6 W 1.7 W 60 Hz

Power consumption 24 V DC without LED-indic. with LED-indic. 220 V AC 50/60 Hz 3.1 / 2.7 VA 2.2 / 1.9 VA Inrush power Holding power Insulation class 220 V AC 50/60 Hz B to VDE 0580

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4)

Duty cycle 100 % Switching times $\mathsf{t}_{\scriptscriptstyle{\mathsf{F}}} \mathsf{\,fill\,}$ 18 ms t_F exhaust 16 ms



Application area

Suitable for all mechanical control systems in stationary application, especially corrosion proof or lightweight applications.

Part no. (metric)

	Qn (I/min) (Cv)	Port 1	Port 2	Port 3	Voltages	Part no. *
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	12 V DC	5894600210
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	24 V DC	5894600220
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	24 V DC**	5894600620
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	24 V AC	5894605220
2	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	110 V AC	5894605270
T T W	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	220/230 V AC	5894605280
1 13	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	220/230 V AC ***	5894605680
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	12 V DC	5894400210
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	24 V DC	5894400220
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	24 V DC**	5894400620
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	24 V AC	5894405220
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	110 V AC	5894405270
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	220/230 V AC	5894405280
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	220/230 V AC***	5894405680

^{*} Without el. connector. ** 24 V r *** 220/ 230 V AC model with LED ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection).

Valves for valve units (inlet valve, stacking valve and end valve) on request. Contact your nearest Bosch Rexroth office.

Part no. (inch)

	Qn [l/min] (Cv)	Port 1	Port 2	Port 3	Voltages	Part no. *			
2 T T T T T T T T T T T T T T T T T T T	520 (0.52)	tube 1/4 "	tube 1/4 "	tube 5/16 "	12 V DC 24 V DC 24 V DC** 24 V AC 110 V AC 220/230 V AC 220/230 V AC ***	5894400310 5894400320 5894400720 5894405320 5894405370 5894405380 5894405780			

^{** 24} V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) * without el. connector ** 24 V m *** 220/ 230 V AC model with LED other voltages on request

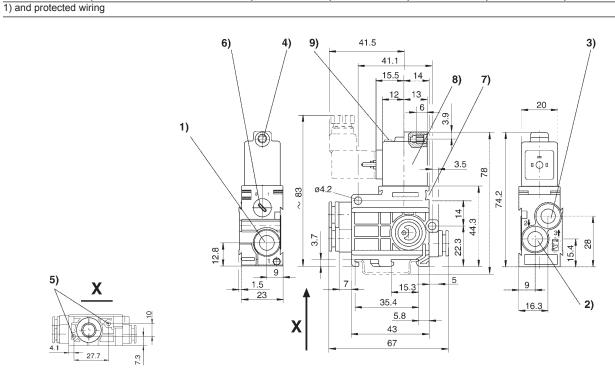


other voltages on request

3/2 and 5/2 Valve, Series 589, ND 4, 6x1 mm or 8x1 mm, 1/4" or 5/16" dia. 3/2 Single valve, solenoid operated, NC



Accessory	Description	Part no.				
•	Silencer, M 5, for pilot exhaust	5324000060				
	Silencer, push-in, for pilot exhaust	8993800114				
	Silencer	8240080000				
	Push-in throttle	3341052010				
	Set screw	8102060582	Pkg qty 50-pcs			
	Nameplates 1–10 Nameplates 11–20	8943056312 8943056322	Pkg qty 5-pcs Pkg qty 5-pcs			
	Star washer	8952203504	100 pcs			
	Filter	8993800164	10 pcs			
П	See Connectors page					
	Voltage	24 V DC				
مممم	for BUS- and Multipin-systems					
BUS	Contact bridge with 0,2 m cable	5763503113				
0000	Contact bridge 1 m cable	5763513113				
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V
1	Pilot valve	5420930210	5420930220	5420935220	5420935270	542093528
	with LED		5420940620 1)			542094568



1) Port 1 2) Port 2 3) Port 3 4) Pilot exhaust core dia. for M 5 5) Pocket hole 6 deep for 3,5 self-tapping screw 6) Manual override 7) Mounting space for nameplate 8) Coil can be rotated at 180° intervals 9) LED

3/2 Single valve, solenoid operated, NO



Vacuum



Technical Data

Valve type Poppet valve Working pressure range

min. 3 bar (44 psi) Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

min. 3 bar (44 psi) min. –0.95 bar (–14 psi)

Port 3: Nominal flow rate Qn

at 6 bar (87 psi), ∆p = 1 bar (15 psi) See table

Port 1:

-15 °C to +50 °C (at p_{max} = 8 bar) (+5 °F to +122 °F (at p_{max} = 116 psi)) Compressed air, lubricated or non-lubricated Ambient temperature range

Medium Weight

0.093 kg (0.205 lbs)

PA (Polyamide) Materials Valve body Seals NBR and PU

(Nitrile Butadiene Rubber, Polyurethane)

DC ± 10 % Voltage tolerances

60 Hz

AC -15 % + 10 % AC -15 % + 10 % AC -10 % + 15 % 1.6 W 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA without LED display with LED display 220 V AC 50/60 Hz Power consumption 24 V DC

Inrush power Holding power Insulation class 220 V AC 50/60 Hz B to VDE 0580

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4)

Duty cycle 100 % Switching times $\mathsf{t}_{\scriptscriptstyle{\mathsf{F}}} \mathsf{\,fill\,}$ 18 ms t_F exhaust 16 ms



Application area

Suitable for all mechanical control systems in stationary applications, especially corrosion proof or lightweight applications.

Part no. (metric)

	Qn (I/min) (Cv)	Port 1	Port 2	Port 3	Voltages	Part no. *
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	12 V DC	5894610210
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	24 V DC	5894610220
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	24 V DC**	5894610620
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	24 V AC	5894615220
. 2	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	110 V AC	5894615270
Ž TIM	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	220/230 V AC	5894615280
1 13	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	220/230 V AC ***	5894615680
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	12 V DC	5894410210
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	24 V DC	5894410220
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	24 V DC**	5894410620
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	24 V AC	5894415220
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	110 V AC	5894415270
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	220/230 V AC	5894415280
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	220/230 V AC ***	5894415680

^{*} Without el. connector ** 24 V n *** 220/ 230 V AC model with LED ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection)

other voltages on request

Valves for valve units (inlet valve, stacking valve and end valve) on request. Contact your nearest Bosch Rexroth office.

Part no. (inch)

T diff from (inter-	•••					
	Qn [l/min] (Cv)	Port 1	Port 2	Port 3	Voltages	Part no. *
					12 V DC	5894410310
					24 V DC	5894410320
2					24 V DC**	5894410720
	520 (0.52)	tube 1/4 "	tube 1/4 "	tube 5/16 "	24 V AC	5894415320
1 3					110 V AC	5894415370
					220/230 V AC	5894415380
					220/230 V AC ***	5894415780

^{** 24} V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) * without el. connector ** 24 V m *** 220/ 230 V AC model with LED other voltages on request

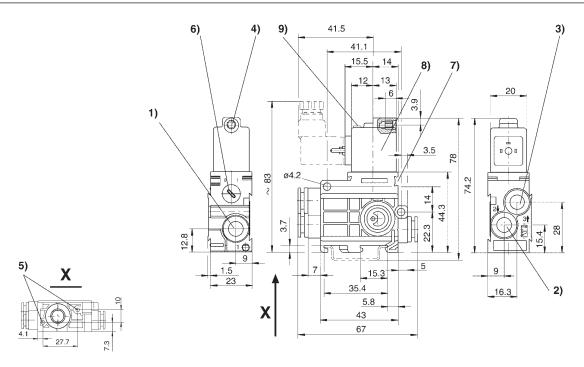


3/2 and 5/2 Valve, Series 589, ND 4, 6x1 mm or 8x1 mm, 1/4" or 5/16" dia. 3/2 Single valve, solenoid operated, NO



Accessory	Description	Part no.				
·	Silencer, M 5, for pilot exhaust	5324000060				
	Silencer, push-in, for pilot exhaust	8993800114				
	Silencer	8240080000				
	Push-in throttle	3341052010				
	Set screw	8102060582	Pkg qty 50-pcs			
	Nameplates 1–10	8943056312	Pkg qty 5-pcs			
	Nameplates 11–20	8943056322	Pkg qty 5-pcs			
	Star washer	8952203504	100 pcs			
	Filter	8993800164	10 pcs			
П	See Connectors page					
	Voltage	24 V DC				
0000	for BUS- and Multipin-systems					
BUS	Contact bridge with 0,2 m cable	5763503113				
0000	Contact bridge with 1 m cable	5763513113				
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V A
1	pilot valve	5420930210	5420930220	5420935220	5420935270	542093528
	with LED		5420940620 1)			542094568

1) and protected wiring



1) Port 1 2) Port 2 3) Port 3 4) Pilot exhaust core dia. for M 5 5) Pocket hole 6 deep for 3,5 self-tapping screw 6) Manual override 7) Mounting space for nameplate 8) Coil can be rotated at 180° intervals 9) LED

3/2 Single valve, solenoid operated, NC, with external pilot



Vacuum



Technical Data

Ambient temperature range

Valve type Poppet valve

Working pressure range

Min. 0.5 bar (7 psi) Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

Port 1: Port 3: Pilot pressure range (port 12)

min. 3 bar (44 psi) min. –0.95 bar (–14 psi) 3 to 10 bar (44 to 145 psi), but ≥ (port 1)

Nominal flow rate Qn at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi)

 $-15 \,^{\circ}\text{C} \text{ to } +50 \,^{\circ}\text{C} \text{ (at p}_{\text{max}} = 8 \text{ bar)}$ $(+5 \, ^{\circ}\text{F to} + 122 \, ^{\circ}\text{F} (at \, p_{\text{max}} = 116 \, psi))$

Compressed air, lubricated or non-lubricated

Medium 0.093 kg (0.205 lbs) Weight

Materials Valve body PA (Polyamide) NBR and PU Seals

(Nitrile Butadiene Rubber, Polyurethane)

Voltage tolerances DC ± 10 %

AC - 15 % + 10 % AC - 10 % + 15 % 50 Hz 60 Hz

1.6 W 1.7 W 3.1 / 2.7 VA Power consumption 24 V DC without LED display with LED display 220 V AC 50/60 Hz Inrush power Holding power Insulation class 2.2 / 1.9 VA B to VDE 0580 220 V AC 50/60 Hz

IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4) Protection with el. connector

100 % Duty cycle Switching times t_F fill 18 ms

 $t_{\text{E}}^{'}$ exhaust 16 ms



Suitable for all mechanical control systems in stationary applications, especially corrosion proof

or lightweight applications.
Attention: Application for BUS-communication with contact bridge on request.

Part no. (metric)

	Qn (I/min) (Cv)	Port 1	Port 2	Port 3	Port 12	Voltages	Part no.*
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	12 V DC	5894670210
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	24 V DC	5894670220
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	24 V DC**	5894670620
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	24 V AC	5894675220
2	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	110 V AC	5894675270
V I I I W	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	220/230 V AC	5894675280
121 11 13	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	220/230 V AC ***	5894675680
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	12 V DC	5894470210
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	24 V DC	5894470220
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	24 V DC**	5894470620
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	24 V AC	5894475220
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	110 V AC	5894475270
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	220/230 V AC	5894475280
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	220/230 V AC ***	5894475680
* without all connect	or ** 24 \/ mode	I with LED and pr	otection wiring for	reducing voltage	neaks in solenoic	Logil (short-circuit r	rotection)

* without el. connector ** 24 V m *** 220/ 230 V AC model with LED 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) other voltages on request

Valves for valve units (inlet valve, stacking valve and end valve) on request. Contact your nearest Bosch Rexroth office.



3/2 and 5/2 Valve, Series 589, ND 4, 6x1 mm or 8x1 mm, 1/4" or 5/16" dia. 3/2 Single valve, solenoid operated, NC, with external pilot



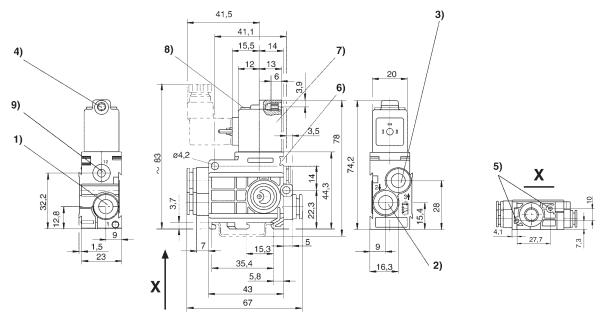
Part no. (inch))					
	Qn [l/min] (Cv)	Port 1	Port 2 and 4	Port 3 and 5	Port 12	Voltages
						12 V DC
21						24 V DC
751-1-Vm	520 (0.52)	tube 1/4 "	tube 1/4 "	tube 5/16 "	tube 5/32 "	24 V DC** 24 V AC
12 1 3						110 V AC
						220/230 V AC
* '0						220/230 V AC ***

^{*} without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit

protection)
*** 220/ 230 V AC model with LED other voltages on request

	(to be ordered separately)	Part no.				1
Accessory	Description Silencer, M 5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer Push-in throttle Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	893800164 8993800114 8240080000 3341052010 8102060582 8943056312 8943056322 8952203504	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
П	See Connectors page					
d	Voltages Pilot valve with LED	12 V DC 5420930210	24 V DC 5420930220 5420940620 1)	24 V AC 5420935220	110 V AC 5420935270	220/230 V AC 5420935280 5420945680

1) and protected wiring



- 1) Port 1 2) Port 2 3) Port 3 6) Mounting space for nameplate
- 4) Pilot exhaust core dia. for M 5 $\,$ 5) Pocket hole 6 deep for 3,5 self-tapping screw 7) Coil can be rotated at 180° intervals $\,$ 8) LED $\,$ 9) Port 12

3/2 Single valve, solenoid operated, NO, with external pilot





Technical Data

Valve type Poppet valve

Working pressure range

Min. 0.5 bar (7 psi) Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

Vacuum Port 1: Port 3:

min. 3 bar (44 psi) min. –0.95 bar (–14 psi) 3 to 10 bar (44 to 145 psi), but ≥ (port 1) Pilot pressure range (port 12) Nominal flow rate Qn

at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi)

 $-15 \,^{\circ}\text{C} \text{ to } +50 \,^{\circ}\text{C} \text{ (at p}_{\text{max}} = 8 \text{ bar)}$ Ambient temperature range $(+5 \, ^{\circ}\text{F to} + 122 \, ^{\circ}\text{F} (at \, p_{\text{max}} = 116 \, psi))$

Medium Compressed air, lubricated or non-lubricated 0.093 kg (0.205 lbs) Weight

Materials Valve body PA (Polyamide)

NBR and PU Seals

(Nitrile Butadiene Rubber, Polyurethane)

Voltage tolerances DC ± 10 %

AC - 15 % + 10 % AC - 10 % + 15 % 50 Hz 60 Hz

Power consumption 24 V DC without LED display with LED display 220 V AC 50/60 Hz

AC - 10 % + 1 1.6 W 1.7 W 3.1 / 2.7 VA 2.2 / 1.9 VA B to VDE 0580 Inrush power Holding power Insulation class 220 V AC 50/60 Hz

IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4) Protection with el. connector

100 % Duty cycle Switching times t_F fill 18 ms

 $t_{\text{E}}^{'}$ exhaust 16 ms



Suitable for all mechanical control systems in stationary applications, especially corrosion proof

or lightweight applications.
Attention: Application for BUS-communication with contact bridge on request.

Part no. (metric)

	Qn (I/min) (Cv)	Port 1	Port 2	Port 3	Port 12	Voltages	Part no.*
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	12 V DC	5894620210
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	24 V DC	5894620220
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	24 V DC**	589462062
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	24 V AC	589462522
2	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	110 V AC	589462527
	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	220/230 V AC	589462528
11 13	750 (0.75)	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32 ")	220/230 V AC ***	589462568
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	12 V DC	589442021
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	24 V DC	589442022
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	24 V DC**	589442062
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	24 V AC	589442522
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	110 V AC	589442527
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	220/230 V AC	589442528
	520 (0.52)	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	220/230 V AC ***	589442568

** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection)

* Without el. connector ** 24 V m *** 220/ 230 V AC model with LED

Valves for valve units (inlet valve, stacking valve and end valve) on request. Contact your nearest Bosch Rexroth office.



3/2 and 5/2 Valve, Series 589, ND 4, 6x1 mm or 8x1 mm, 1/4" or 5/16" dia. 3/2 Single valve, solenoid operated, NO, with external pilot

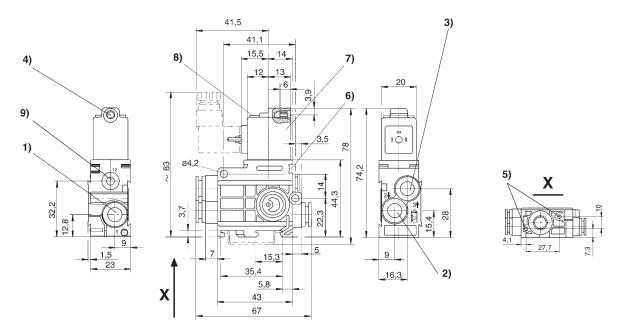


Part no. (inch))						
	Qn [l/min] (Cv)	Port 1	Port 2 and 4	Port 3 and 5	Port 12	Voltages	Part no. *
						12 V DC	5894420310
						24 V DC	5894420320
2						24 V DC**	5894420720
	520 (0.52)	tube 1/4 "	tube 1/4 "	tube 5/16 "	tube 5/32 "	24 V AC	5894425320
12 1 3						110 V AC	5894425370
						220/230 V AC	5894425380
* '0						220/230 V AC ***	5894425780

^{*} without el. connector ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection)
*** 220/ 230 V AC model with LED other voltages on request

Accessory	Description	Part no.				
	Silencer, M 5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer Push-in throttle Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	5324000060 8993800114 8240080000 3341052010 8102060582 8943056312 8943056322 8952203504 8993800164	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
П	See Connectors page					
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V A0
~	Pilot valve	5420930210	5420930220	5420935220	5420935270	5420935280
	with LED		5420940620 ¹⁾			542094568

1) and protected wiring



- 1) Port 1. 2) Port 2. 3) Port 3 6) Mounting space for nameplate 9) Port 12. 4) Pilot exhaust core dia. for M . 5) Pocket hole 6 deep for 3,5 self-tapping screw. 7) Coil can be rotated at 180° intervals 8) LED 9) Port 12

5/2 Single valve, solenoid operated





Technical Data

Valve type Poppet valve Working pressure range min. 3 bar (44 psi)

Max. 8 bar to +50 °C (Max. 116 psi to +122 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

Vacuum Port 1: min. 3 bar (44 psi)

min. -0.95 bar (-14 psi) Port 3: Nominal flow rate Qn

at 6 bar (87 psi), $\Delta p = 1$ bar (15 psi) See table

-15 °C to +50 °C (at p_{max} = 8 bar) Ambient temperature range $(+5 \, ^{\circ}\text{F to } +122 \, ^{\circ}\text{F} (at \, p_{\text{max}} = 116 \, \text{psi}))$

Compressed air, lubricated or non-lubricated Medium Weight 0.133 kg (0.293 lbs)

Materials Valve body PA (Polyamide) NBR and PU Seals

(Nitrile Butadiene Rubber, Polyurethane)

Voltage tolerances DC ± 10 %

60 Hz

AC - 15 % + 10 % AC - 10 % + 15 % 1.6 W 1.7 W without LED display Power consumption 24 V DC with LED display 220 V AC 50/60 Hz 3.1 / 2.7 VA 2.2 / 1.9 VA Inrush power Holding power 220 V AC 50/60 Hz Insulation class B to VDE 0580

Protection with el. connector IP 65 to IEC 529 (DIN VDE 0470)(NEMA 4)

Duty cycle 100 % Switching times t_F fill 27 ms t_F exhaust 28 ms



Suitable for all mechanical control systems, especially corrosion proof or lightweight applications.

Part no. (metric) Qn (I/min) (Cv) Port 1 Port 2 and 4 Port 3 and 5 Voltages Part no. * tube 8 x 1 (5/16 ") tube 8 x 1 (5/16 ") tube 8 x 1 (5/16 ") 600 (0.60) 12 V DC 5894900210 tube 8 x 1 tube 8 x 1 (5/16 ") tube 8 x 1 24 V DC 5894900220 600 (0.60) (5/16")(5/16")tube 8 x 1 (5/16 ") tube 8 x 1 (5/16 ") tube 8 x 1 (5/16 ") 600 (0.60) 24 V DC** 5894900620 tube 8 x 1 (5/16 ") tube 8 x 1 (5/16 ") tube 8 x 1 (5/16 ") 600 (0.60) 24 V AC 5894905220 tube 8 x 1 tube 8 x 1 tube 8 x 1 600 (0.60) 110 V AC 5894905270 (5/16")(5/16")(5/16")tube 8 x 1 (5/16 ") tube 8 x 1 (5/16 ") tube 8 x 1 220/230 V AC 600 (0.60) 5894905280 (5/16")tube 8 x 1 tube 8 x 1 tube 8 x 1 220/230 V AC *** 600 (0.60) 5894905680 (5/16 ") (5/16 ") (5/16 ") 520 (0.52) tube 6 x 1 tube 6 x 1 tube 8 x 1 12 V DC 5894700210 520 (0.52) 24 V DC 5894700220 tube 6 x 1 tube 6 x 1 tube 8 x 1 24 V DC** 520 (0.52) tube 6 x 1 tube 6 x 1 tube 8 x 1 5894700620 tube 6 x 1 tube 6 x 1 24 V AC 5894705220 520 (0.52) tube 8 x 1 520 (0.52) tube 6 x 1 tube 6 x 1 tube 8 x 1 110 V AC 5894705270 520 (0.52) tube 6 x 1 tube 6 x 1 tube 8 x 1 220/230 V AC 5894705280

220/230 V AC *** 520 (0.52) tube 6 x 1 tube 6 x 1 tube 8 x 1 5894705680 ** 24 V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) * without el. connector *** 220/ 230 V AC model with LED

other voltages on request

Valves for valve units (inlet valve, stacking valve and end valve) on request. Contact your nearest Bosch Rexroth office

Part no. (incl	h)					
	Qn [l/min] (Cv)	Port 1	Port 2 and 4	Port 3 and 5	Voltages	Part no. *
					12 V DC	5894700310
					24 V DC	5894700320
2					24 V DC**	5894700720
M ZIZIW	520 (0.52)	tube 1/4 "	tube 1/4 "	tube 5/16 "	24 V AC	5894705320
1 3					110 V AC	5894705370
					220/230 V AC	5894705380
					220/230 V AC ***	5894705780

^{** 24} V model with LED and protection wiring for reducing voltage peaks in solenoid coil (short-circuit protection) * without el. connector

other voltages on request

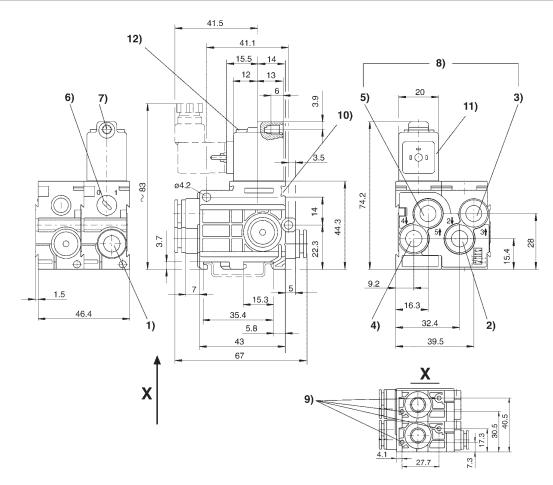


^{220/230} V AC model with LED

3/2 and 5/2 Valve, Series 589, ND 4, 6x1 mm or 8x1 mm, 1/4" or 5/16" dia. 5/2 Single valve, solenoid operated



Accessory	Description	Part no.				
·	Silencer, M 5, for pilot exhaust Silencer, push-in, for pilot exhaust Silencer Push-in throttle Set screw Nameplates 1–10 Nameplates 11–20 Star washer Filter	5324000060 8993800114 8240080000 3341052010 8102060582 8943056312 8943056322 8952203504 8993800164	50-pcs Pkg qty 5-pcs Pkg qty 5-pcs 100 pcs 10 pcs			
Щ	See Connectors page					
	Voltage	24 V DC				
BUS	for BUS- and Multipin-systems Contact bridge with 0,2 m cable Contact bridge with 1 m cable	5763503113 5763513113				
	Voltages	12 V DC	24 V DC	24 V AC	110 V AC	220/230 V A
~	Pilot valve	5420930210	5420930220	5420935220	5420935270	5420935280
	with LED		5420940620 1)			542094568



1) Port 1. 2) Port 2. 3) Port 3. 4) Port 4. 5) Port 5. 6) Manual override. 7) Pilot exhaust core dia. for M 5. 8) Exhaust air must be throttled. 9) Pocket hole 6 deep for 3,5 self-tapping screw. 10) Mounting space for nameplate. 11) Coil can be rotated at 180° intervals. 12) LED.

3/2 Valve, Series 589, ND4, 6x1 or 8x1 mm, 1/4" or 5/16" dia.

Single air pilot





Technical Data

Valve type Poppet valve

Operating pressure (port 1)

Min. 0,5 bar (7 psi) Max. 8 bar to +60 °C (Max. 116 psi to +140 °F) Max. 10 bar to +40 °C (Max. 145 psi to +104 °F)

Vacuum Port 1: Port 3:

Min. 3 bar (44 psi) Min. -0,95 bar (–14 psi) 3 to 10 bar (44 to 145 psi), but ≥ port 1 Pilot pressure range (port 12) Nominal flow rate

-15 °C to +60 °C (+5 °F to +140 °F) (at p_{max} = 8 bar (116 psi)) Ambient temperature range

Medium Weight Compressed air, lubricated or non-lubricated 0,042 kg (0.093 lbs)

PA (Polyamide) NBR and PU Materials Valve body

(Nitrile Butadien Rubber and Polyurethane)



Application area

Suitable for all mechanical control systems in stationary applications, especially corrosion proof or lightweight applications, as well as for throttling on port 3.

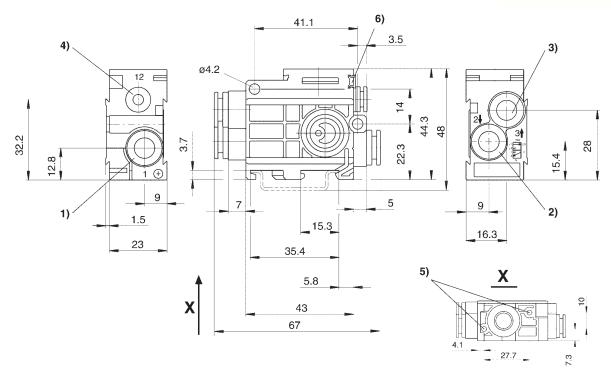
	Port 1	Port 2	Port 3	Port 12	Qn I/min (Cv)	Part no.
	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	520 (0.52)	5894400000
[2	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32")	750 (0.75)	5894600000
12 T 1 1 W	tube 1/4 "	tube 1/4 "	tube 1/4 "	tube 5/32"	520 (0.52)	5894400020
	tube 6 x 1	tube 6 x 1	tube 8 x 1	tube 4 x 1	520 (0.52)	5894400010
	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 8 x 1 (5/16 ")	tube 4 x 1 (5/32")	750 (0.75)	5894600010
12 T W	tube 1/4 "	tube 1/4 "	tube 5/16 "	tube 5/32 "	520 (0.52)	5894400030

Valves for valve units (inlet valve, stacking valve and end valve) on request. Contact your nearest Bosch Rexroth office.

Accessories	(to be ordered separately)		
Accessory	Description	Part no.	
•	Silencer	8240080000	
	Set screw	8102060582	pkg qty. 50-pcs
	Nameplates 1-10	8943056312	pkg qty. 50-pcs
	Nameplates 11-20	8943056322	pkg qty. 50-pcs

3/2 Valve, Series 589, ND4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. Single air pilot





1) Port 1 2) Port 2 3) Port 3 4) Port 12 5) Pocket hole 6 deep for 3,5 self-tapping screw 6) Mounting space for nameplate

3/2 and 5/2 Valve Series 579/589 **6x1 or 8x1 mm, 1/4" or 5/16" dia.** Valve units, electrical version 10-18, without connectors





Valve type Ambient tempera	ture range	Poppet valve -15 °C to +50 °C (at p _{max} = 8 bar) (+5 °F to +122 °F (at p _{max} = 116 psi))	
Medium		Compressed air, lubricated or non-lubricated	
Materials	Valve body Seals	PA (Polyamide) NBR and PU (Nitrile Butadiene Rubber, Polyurethane)	





- without connectors
- with unlimited number of valves
- available voltages: 12 V DC (version 10), 24 V DC (version 11), 24 V DC with LED and short-circuit protection (version 12) 24 V AC (version 15), 110 V AC (version 16), 220/230 V AC (version 17), 220/230 V AC with LED (version 18)

Accessories (to be ordered sep	arately)	
	Туре	Part no.
	connector	
	to DIN 43650, Form C	
44	for all voltages	8941012202
and protected wiring		

3/2 and 5/2 Valve Series 579/589, and 4, 6x1 or 8x1 mm, 1/4" or 5/16" dia. Valve units, electrical version 20/21, with connectors





Technical Data

Valve type Ambient temperature range Poppet valve -15 °C to +50 °C (at p_{max} = 8 bar) (+5 °F to +122 °F (at p_{max} = 116 psi)) Compressed air, lubricated or non-lubricated PA (Polyamide) NBR and PU Materials Valve body Seals

(Nitrile Butadiene Rubber, Polyurethane)



Suitable for all mechanical control systems, especially corrosion proof or lightweight applications.



- with connectors with LED and 3 m (9.8 ft.) cable already mounted
- with unlimited number of valves
- available voltages: 24 V DC (version 20), 24 V AC (version 21)

Accessories (to be orde	ered separately)	
	Туре	Part no.
П	connector to DIN 43650, Form C with LED and 3 m cable	
	for 24 V AC/DC	8941000512

3/2 and 5/2 Valve Series 579/589 **6x1 or 8x1 mm, 1/4" or 5/16" dia.** Valve units, electrical version 60, for multiple wiring





Technical Data

Valve type Ambient temperature range Poppet valve -15 °C to +50 °C (at p_{max} = 8 bar) (+5 °F to +122 °F (at p_{max} = 116 psi)) Compressed air, lubricated or non-lubricated Medium

Materials Valve body PA (Polyamide) Seals NBR and PU

(Nitrile Butadiene Rubber, Polyurethane)

Application area

Suitable for all mechanical control systems, especially corrosion proof or lightweight application



- multi-pin version with contact bridges for 24 V DC valves
- max. number of valves = 8
- without sensor inputs
- first valve position delivered with 5 m (16.4 ft.) cable and open cable end for connection to terminal
- valves have a 180° turned coil

Accessories (to be ordered separately)			
	Туре	Part no.	
	Contact bridges for multi-pin control, LED, 0,2 m (0.66 ft.) cable	5763533103	
	Contact bridges for multi-pin control, LED, 5 m (16.4 ft.) cable	5763533113	

3/2 and 5/2 Valve Series 579/589 **6x1 or 8x1 mm, 1/4" or 5/16" dia.** Valve units, electrical version 70-71, for BUS communication





Valve type Ambient tempera	ature range	Poppet valve -15 °C to +50 °C (at p _{max} = 8 bar) (+5 °F to +122 °F (at p _{max} = 116 psi))	
Medium		Compressed air, lubricated or non-lubricated	
Materials	Valve body Seals	PA (Polyamide) NBR and PU (Nitrile Butadiene Rubber, Polyurethane)	
Application	on area		



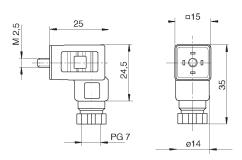
- BUS-version with contact bridges for 24 V DC valves
- max. number of valves = 16
- first valve position delivered with 5 m (16.4 ft.)cable and with a connector to BUS-module
- valves have a 180° turned coil
- version 70 without sensor inputs, version 71 with sensor inputs

Accessories (to	Accessories (to be ordered separately)					
	Туре	Part no.				
	Contact bridge with 2 sensor inputs, LED, 0,2 m (0.66 ft.) cable	5763503113				
_	Contact bridge with 2 sensor inputs, LED, 1 m (3.28 ft.) cable	5763513113				
	Contact bridge with 2 sensor inputs, LED, 5 m (16.4 ft.) cable	5763523113				
	Contact bridge without sensor inputs, LED, 0,2 m (0.66 ft.) cable	5763513133				
	Pilot valve 24 V DC	5420930220				

Connectors



★ Electrical connector, Form C, non-lighted (for all 579/589 valve voltages)





Nominal voltage	Switching current	Wire cross- section max.	Cable gland	Weight (kg) (lbs)	Ambient temp. range	Part no.
250 V AC / 300 V DC	max. 6 A	0,75 mm² (19 AWG)	M12 x 1 (for Ø 6,5 mm)	0.012 (0.026 lbs)	-40 °C to +90 °C (-40 °F to +194 °F)	8941012202

Protection (mounted) IP 65 to DIN VDE 0470 (NEMA 4)
 Air and leakage paths to VDE 0110 insulation class C
 The connector cable outlet can be turned through 4 x 90° on its base
 Tonnection block
 Tightening torque: 50 Ncm (4.43 in.lbs)
 Number of pins 2 + protection contact
 Body black
 Part no. incl. seal and screw



★ Electrical connector, Form C, lighted

Description	Part No.
120VAC with 3' lead	R432011961
120VAC with 6' lead	R432011963
120VAC without lead	R432011981
24VAC/DC with 3 ft. lead	R432011962
24VAC/DC with 6 ft. lead	R432011064
24VAC/DC without lead	R432011982



Nominal Current: 10A Operating Current: 6A

Color: Clear

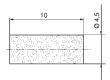
Protection Class: NEMA 4 Insulation Class: VDE 01 10 Gasket Material: Nitrile

Temp. Range for Gaskets: -40° to +90°C (-40° to +194°F)

Accessories



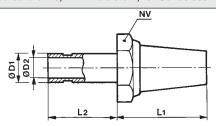
★ Silencer, 4,5 mm dia., for pilot exhaust (push-in), for Series 579/589





Ambient temperature range	p max. [bar] (psi)	Material	Part no.
-25 °C to +80 °C (-13 °F to +176 °F)	10 (145)	Sintered bronze	8993800114

★ Silencer, sintered bronze, with male stem, for Series 589



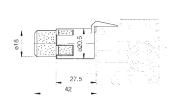


Ø D1 [mm]	Ø D2 [mm]	L1	L2	NV	Flow rate max. [I/min] (Cv)	Part no.
8	6	25	19	17	2100 (2.10)	8240080000

Materials; Sintered bronze, stem in brass. Working pressure p max.: 10 bar (145 psi). Ambient temperature range: –20 °C to +70 °C (–4° F to +158° F)



★ Silencer for Series 579





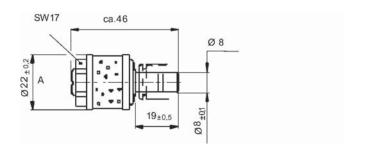
Nominal flow max. [l/min] (Cv)	Sound pressure level*	p ^{max} [bar] (psi)	Weight [kg] (lbs)	Ambient temp. range	Pkg quantity	Part no.
1300 (1.30)	78 dB(A)	10 (145)	0.008 (0.018)	-25 °C to +60 °C (-13 °F to +140 °F)	1	5790005312
1300 (1.30)	78 dB(A)	10 (145)	0.080 (0.176)	-25 °C to +60 °C (-13 °F to +140 °F)	10	5790005332
1300 (1.30)	78 dB(A)	10 (145)	0.800 (1.764)	-25 °C to +60 °C (-13 °F to +140 °F)	100	5790005352

^{*} to DIN 45 635 Material: PA-MxD6, PE porous

Accessories



★ Push-in throttle with silencer for Series 589



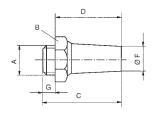


Nominal flow max. [l/min] (Cv)	Sound pressure level*	p ^{max} [bar] (psi)	Weight [kg] (oz.)	Ambient temp. range	Pkg quantity	Part no.
1300 (1.30)	ca. 75 dB(A)	10 (145)	0.06 (2.1)	-25 °C to +60 °C (-13 °F to +140 °F)	1	3341052010

Materials

Silencer: sintered plastic Insert throttle: brass zinc-plated Sealings: NBR

★ Silencer, M5, for coil exhaust for Series 579/589





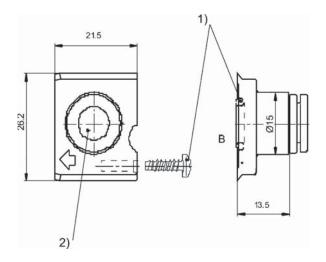
ı	Α	В	С	D	F	G	Part no.
	M 5	SW 7	17	13	4	4	5324000060

Sound pressure level to DIN 45 635: 65 dB(A) Material: Sintered bronze Operating pressure p max.: 10 bar (145 psi) Ambient temperature range: -25° C to $+80^{\circ}$ C (-13° F to 176° F)

Accessories



Air connection module with push-in fitting for Series 579

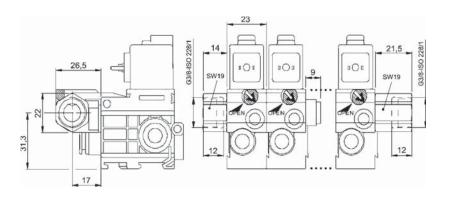




- 1) with O-ring and tapping screw2) Push-in fitting for tube 8x1

Port	Part no.
8x1(5/16")	5790000092

Exhaust module for Series 579





with O-rings

Temperature Range	Working pressure range	Description	Part no.
-15 to +60 °C (+5 °F to +140 °F)	-0,95 to 10 (-14 to 145 psi)	Exhaust module left G 3/8	5790002202
-15 to +60 °C (+5 °F to +140 °F)	-0,95 to 10 (-14 to 145 psi)	Exhaust module linking	5790002212
-15 to +60 °C (+5 °F to +140 °F)	-0,95 to 10 (-14 to 145 psi)	Exhaust module right, closed	5790002222
-15 to +60 °C (+5 °F to +140 °F)	-0,95 to 10 (-14 to 145 psi)	Exhaust module left 10 x 1	5790002232
-15 to +60 °C (+5 °F to +140 °F)	-0,95 to 10 (-14 to 145 psi)	Exhaust module right, G 3/8	5790002242

For porous polyethene silencer with G3/8 thread for use in exhaust module left, order 1827000021

Accessories





★ Nameplates



No.	Pkg quantity	Part no.
1–10	5-pcs	8943056312
11–20	5-pcs	8943056322

★ Set screw



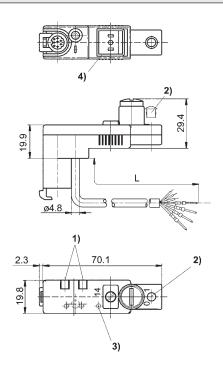
Pkg quantity	Part no.		
50-pcs	8102060582		
Materials etainless steel			

Material: stainless steel

Contact bridge for multi-pin control, for the 1st. valve position



★ Contact bridge (single) for multi-pin control, 1st. Valve





1) Mounting space for nameplates.

2) Protecting cap for manual override. 3) LED valve switching status.

4) Seal fixed.

Cable length L [m]	Current consumption max. [mA]	Operating voltage	Weight [kg] (lbs)	Part no.
5	100	24 V DC	0.800 (1.764)	5763533113

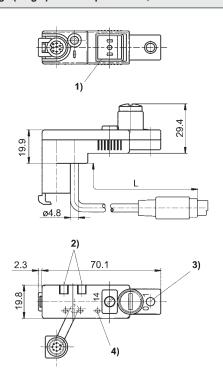
Material: PEI Black Polyurethane hose Protection class: IP 65-IEC 529 (DIN VDE 0470) (NEMA 4)
Ambient temperature range: -15°C to +50°C (5° F to + 122° F) Protected wiring: Zener diode
Assembly torque for mounting screw: 0,25 +0.05 Nm (2.21 +0.44 in.lbs)
Up to max. 8 valve spools can be connected with a minimum of installation time and expense using this contact bridge

★ Cable grouping						
	Wire color Valve position	black 24 V - 1	Brown 24 V - 2	orange 24 V - 3	Yellow 24 V - 4	Green 24 V - 5
	Wire color Valve position	purple 24 V - 6	white 24 V - 7	pink 24 V - 8	blue 0 V 1-8	

Contact bridge for multi-pin control, for the 2nd. to the 8th. valve position



★ Contact bridge (single) for multi-pin control, 2nd. - 8th. valve





1) Seal fixed

2) Mounting space for nameplates

3) Protecting cap for manual override 4) LED valve switching status

Cable length L [m]		Current consumption max. [mA]	Operating voltage	Weight [kg] (lbs)	Part no.
0,2		100	24 V DC	0.039 (0.086)	5763533103
Metarial - DEL Mini DIN 0 nin connector		- commonton Dipole Doleste	sthana hasa Dratastian al	DE IEC ESO (DIN VI	DE 0470\ (NIENAA A)

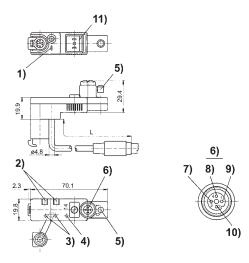
Material: PEI Mini DIN 8-pin connector Black Polyurethane hose Protection class: IP 65-IEC 529 (DIN VDE 0470) (NEMA 4) Ambient temperature range: -15 °C to +50 °C (5 °F to + 122 °F) Protecting wiring: Zener diode. Assembly torque for mounting screw: 0,25 +0.05 Nm (2.21 +0.04 in.lbs)

★ Accessories (to be ordered separately)				
Accessory	Туре	Part no.		
	End plug for last contact bridge	5763500414		
	Protecting cap for manual override 10 pieces / bag	8980122904		

Contact bridge for single solenoid with pin centers 8 mm



★ Contact bridge for single solenoid with pin center 8 mm





1) Additional function-earth connection 2) Mounting for nameplates 3) LED green operating status sensor 4) LED yellow operating status valve 5) Sealing cap for manual override 6) Sensor input 7) 0 V 8) Sensor 1 9) 24 V DC 10) Sensor 2

Cable length L [m]	Operating current max. [mA]	Operating voltage	Weight [kg] (lbs)	Part no. with 2 sensors inputs	Part no. without sensor inputs
0,2	100	24 V DC	0.039 (0.086)	5763503113*	5763513133
0,5	100	24 V DC	0.070 (0.154)	5763553113*	-
1	100	24 V DC	0.150 (0.331)	5763513113*	-
5	100	24 V DC	0.800 (1.764)	5763523113*	-
0,5 M12**	100	24 V DC	0.070 (0.154)	5763523133*	-

Material: Polyetherimit (Ultern) Mini DIN 8-pin connector Black PVC cable
Protection class : IP 65-IEC 529 (DIN VDE 0470) (NEMA 4), IP65 protection only with covered connectors
Ambient temperature range: -15°C to +50°C (5° F to 122° F) Protective circuit : Zener diode
Assembly torque for mounting screw: 0,25 +0.05 Nm (2.21 +0.44 in.lbs)
Cable cross-section AWG 26 The first and the last bridge of each valve unit must be connected to function-earth with a cable
* protection cap for sensor input to be ordered separately
** to be connected to the connection cable of the Flat Design, for the first valve position.

▲ ★ Accessories (to be ordered separately)					
	Accessory	Part no.			
	Protection cap for Sensor input End plug for last contact bridge	8941350294 5763500404			
	Sealing cap for manual override	8980122904			

Our expertise is your competitive advantage

Experience and expertise combined with world-class products. Working with Rexroth means working with a partner who can show you how to apply pneumatics for your competitive advantage.

Producing movement with air—that's pneumatics from Rexroth. We can show you how to do more with air—to achieve higher productivity, greater precision, and higher reliability. And with a complete portfolio of pneumatic, hydraulic, mechanical, electronic, and electro-pneumatic components and systems, Rexroth is your global source of industrial automation solutions.



Standard or custom

Providing a sophisticated and extensive standard product line in both NPT and ISO G (BSPP) port configurations, our products include pneumatic valves and actuators, pneumatic and hydraulic cylinders, pneumatic fieldbus valve manifolds, electro-pneumatic valves and positioners, FRLs, tubing and fittings, vacuum components, industrial shock absorbers, and tooth chain products.

We can also customize products to produce applicationspecific solutions. Our experience in materials, design and manufacturing, and machine knowledge gives us the flexibility to work with you to craft the exact solution you need.

Versatile, modular, precise

Our products are designed with market-specific needs in mind. You'll find what you need rather than trying to force-fit a close cousin. Or we'll give you the custom solution you need. Our modular approach means greater versatility and flexibility in application and customization. What's more, the modularity allows easier integration and greater cost savings.

Customer-based product development

Our products have always been state-of-the-art technology. We are constantly developing new products and improving existing ones—while working with customers globally to understand evolving needs. By focusing our product development on your real-world needs, we create products that give you a competitive edge in reliability, capabilities, and easy use.

Worldwide presence

Global presence, global availability, global application—with Rexroth you have an international supplier who can support you worldwide. Five development centers—in Lexington, Kentucky; Hannover and Schwieberdingen, Germany; Stockholm, Sweden; and Bonneville, France—serve as centers of competence for advancing the state of the art in pneumatics in an ISO 9001-certified design and production environment.



Industry-specific solutions

One size pneumatic solutions don't fit all application needs. Different industries have decidedly different needs. The requirements of the food processing industry, for example, differ enormously from those of the automotive industry or the challenges of system automation. Our application specialists have experience in your market, understand your specific needs, and can work with you to find the proper products.



NOTICE TO PRODUCT USERS

1. WARNING: FLUID MEDIA

AVENTICS pneumatic devices are designed and tested for use with filtered, clean, dry, chemical free air at pressures and temperatures within the specified limits of the device. For use with media other than air or for human life support systems, AVENTICS must be consulted. Hydraulic cylinders are designed for operation with filtered, clean, petroleum based hydraulic fluid; operation using fire-resistant or other special types of fluids may require special packing and seals. Consult the factory.

2. WARNING: MATERIAL COMPATIBILITY

Damage to product seals or other parts caused by the use of non-compatible lubricants, oil additives or synthetic lubricants in the air system compressor or line lubrication devices voids the AVENTICS warranty and can result in product failure or other malfunction. See lubrication recommendations below.

AIR LINE LUBRICANTS! In service higher than 18 cycles per minute or with continuous flow of air through the device, an air line lubricator is recommended.* (Do not use line lubrication with vacuum products.) However, the lubricator must be maintained since the oil will wash out the grease, and lack of lubrication will greatly shorten the life expectancy. The oils used in the lubricator must be compatible with the elastomers in the device. The elastomers are normally BUNA-N, NEOPRENE, VITON, SILICONE and HYTREL. AVENTICS recommends the use of only petroleum based oils without synthetic additives, and with an aniline point between 180° F and 210° F.

COMPRESSOR LUBRICANTS! All compressors (with the exception of special "oil free" units) pass oil mist or vapor from the internal crankcase lubricating system through to the compressed air. Since even small amounts of non-compatible lubricants can cause severe seal deterioration (which could result in component and system failure) special care should be taken in selecting compatible compressor lubricants.

3. WARNING: INSTALLATION AND MOUNTING

The user of these devices must conform to all applicable electrical, mechanical, piping and other codes in the installation, operation or repair of these devices.

INSTALLATION! Do not attempt to install, operate or repair these devices without proper training in the technique of working on pneumatic or hydraulic systems and devices, unless under trained supervision. Compressed air and hydraulic systems contain high levels of stored energy. Do not attempt to connect, disconnect or repair these products

when a system is under pressure. Always exhaust or drain the pressure from a system before performing any service work. Failure to do so can result in serious personal injury.

MOUNTING! Devices should be mounted and positioned in such a manner that they cannot be accidentally operated.

4. WARNING: APPLICATION AND USE OF PRODUCTS

The possibility does exist for any device or accessory to fail to operate properly through misuse, wear or malfunction. The user must consider these possibilities and should provide appropriate safe guards in the application or system design to prevent personal injury or property damage in the event of a malfunction.

5. WARNING: CONVERSION, MAINTENANCE AND REPAIR

When a device is disassembled for conversion to a different configuration, maintenance or repair, the device must be tested for leakage and proper operation after being reassembled and prior to installation.

MAINTENANCE AND REPAIR! Maintenance periods should be scheduled in accordance with frequency of use and working conditions. All AVENTICS products should provide a minimum of 1,000,000 cycles of maintenance free service when used and lubricated as recommended. However, these products should be visually inspected for defects and given an "in system" operating performance and leakage test once a year. Where devices require a major repair as a result of the one million cycles, one year, or routine inspection, the device must be disassembled, cleaned, inspected, parts replaced as required, rebuilt and tested for leakage and proper operation prior to installation. See individual catalogs for specific cycle life estimates.

6. PRODUCT CHANGES

Product changes including specifications, features, designs and availability are subject to change at any time without notice. For critical dimensions or specifications, contact factory.

*Many AVENTICS pneumatic valves and cylinders can operate with or without air line lubrication; see individual sales catalogs for details.

-Refer to the appropriate service manual for parts and service information, most are available for download from www.aventics.com/us/downloads

WARRANTIES

- 7.1 Emerson warrants that:
- a) Emerson will transfer title to the Goods (excluding Software and Firmware) to Customer under Clause 4 of our Terms and Conditions of Sale*;
- b) Goods, Documentation and Services will conform with the Specification;
- c) Goods made by Emerson or its Affiliates will, under normal use and care, be free from defects in materials or workmanship; and
- d) Emerson and its Affiliates' Personnel delivering Services are trained and will use reasonable skill and care.
- 7.2 Warranty Periods. Unless otherwise specified by Emerson, the warranties in Clause 7.1 apply as follows:
- a) Goods: until the earlier of 12 months from the first installation or 18 months from delivery (90 days from delivery in the case of consumables);
- b) Services: for 90 days from completion of the Services;
- c) Goods repaired, replacement items and Services re-performed: from delivery of the replacement or completion of the repair or re-performance, for 90 days or until the end of the original warranty period (if later).
- 7.3 Warranty Procedure. Clause 7.3 applies if, within the warranty period, Customer discovers any non-conformity with a warranty in Clause 7.1, tells Emerson in writing and, in the case of Goods, returns the non-conforming items at Customer's cost, freight and insurance pre-paid, to the repair facility chosen by Emerson. Where this Clause applies, Emerson will, at its sole option, either:
- a) correct any non-conforming Documents and Services; or
- b) repair or replace non-conforming Goods FCA (Incoterms® 2010) at the repair location; or
- c) instead refund the price of the non-conforming item.

7.4 Exclusions from Warranty.

- a) The warranties in Clause 7.1(b), (c) and (d) exclude and Customer will pay the cost of all repairs and replacements caused by any of the following: normal wear and use; inadequate maintenance; unsuitable power sources or environmental conditions; improper handling, storage, installation, or operation; misuse or accident caused by anybody except Emerson; a modification or repair not approved by Emerson in writing; materials or workmanship made, provided or specified by Customer; contamination; the use of unapproved parts, firmware or software; Cyber Attack; any other cause not the fault of Emerson.
- b) Emerson will not pay any costs relating to non-compliance with a warranty in Clause 7.1, except where agreed in writing in advance. Unless accepted in writing by Emerson, Customer will pay:
- (i) all costs of dismantling, freight, reinstallation and the time and expenses of Emerson Personnel for travel under Clause 7; and
- (ii) all costs incurred by Emerson in correcting nonconformities for which Emerson is not responsible under Clause 7 and in examining items that comply with the warranties in Clause 7.1
- c) If Emerson relies on wrong or incomplete information supplied by Customer, all warranties are void unless Emerson agrees otherwise in writing.
- d) Customer alone is responsible for the selection, maintenance and use of the Goods.
- e) Resale Products carry only the warranty given by the original manufacturer. Emerson has no liability for Resale Products beyond making a reasonable commercial effort to arrange procurement and shipping of the Resale Products.
- 7.5 Disclaimer. The limited warranties set out in this Clause 7 are the only warranties made by Emerson and can be changed only with Emerson's signed written agreement. THE WARRANTIES AND REMEDIES IN CLAUSE 7 ARE EXCLUSIVE. THERE ARE NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, ABOUT MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE OR ANYTHING ELSE FOR ANY OF THE GOODS, DOCUMENTATION OR SERVICES.

AVENTICS Corporation

1953 Mercer Road Lexington, KY 40511 Tel 859.254.8031 Fax 800.489.1488 www.aventics.com/us info.us@aventics.com





AVENTICS Incorporated

5515 North Service Rd Suite #104 Burlington, Ontario L7L 6G4 Tel 905.332.0399 Fax 905.332.8596 www.aventics.com/ca info.ca@aventics.com

AVENTICS México, S. de R.L. de C.V.

AV. Paseo de la Reforma 250, Esquina Niza Deleg. Cuauhtémoc 06280 México, D.F. Tel 866.873.0635 www.aventics.com/mx info.mx@aventics.com

Further contacts: www.aventics.com/en/contact

The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.