

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

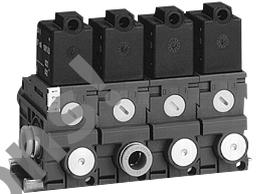
3/2 Valves for valve units, solenoid operated, NC, blockable

**Rexroth**  
Bosch Group



## 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), Δp = 1 bar (15 psi)		
Ambient temperature range	-15 °C to +50 °C (at p <sub>max</sub> = 8 bar) (+5 °F to +122 °F (at p <sub>max</sub> = 116 psi))	
Medium	Compressed air, lubricated or non-lubricated	
Weight	0.093 kg (0.205 lbs)	
Materials	Valve body Seals	PA (Polyamide) NBR and PU (Nitrile Butadiene Rubber, Polyurethane)
Voltage tolerances		DC ± 10 % AC - 15 % + 10 % AC - 10 % + 15 %
Power consumption	50 Hz 60 Hz without LED display with LED display	1.6 W 1.7 W
Inrush power	220 V AC 50/60 Hz	3.1 / 2.7 VA
Holding power	220 V AC 50/60 Hz	2.2 / 1.9 VA
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 <sub>F</sub> fill t <sub>E</sub> exhaust	18 ms 16 ms



## Application area

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

## Part no. for DC versions

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 6 x 1	A and B / I	5790500210	5790500220	5790500620
	tube 8 x 1	tube 8 x 1	A and B / I	5790600210	5790600220	5790600620
Stacking valve	–	tube 6 x 1	B / III	5791500210	5791500220	5791500620
	–	tube 8 x 1	B / III	5791600210	5791600220	5791600620
Stacking valve with add. compressed air port	tube 6 x 1	tube 6 x 1	B / II	5796400210	5796400220	5796400620
	tube 8 x 1	tube 6 x 1	B / II	5796500210	5796500220	5796500620
End valve	tube 8 x 1	tube 8 x 1	B / II	5796600210	5796600220	5796600620
	–	tube 6 x 1	–	5792500210	5792500220	5792500620
Air conn. module	–	tube 8 x 1	–	5792600210	5792600220	5792600620
	tube 8 x 1	–	B	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

## Part no. for DC 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 1/4 "	A and B / I	5790400310	5790400320	5790400720
	tube 5/16 "	tube 1/4 "	A and B / I	5790500310	5790500320	5790500720
	tube 5/16 "	tube 5/16 "	A and B / I	5790600210	5790600220	5790600620
Stacking valve	–	tube 1/4 "	B / III	5791500310	5791500320	5791500720
	–	tube 5/16 "	B / III	5791600210	5791600220	5791600620
Stacking valve with add. compressed air port	tube 1/4 "	tube 1/4 "	B / II	5796400310	5796400320	5796400720
	tube 5/16 "	tube 1/4 "	B / II	5796500310	5796500320	5796500720
End valve	tube 5/16 "	tube 5/16 "	B / II	5796600210	5796600220	5796600620
	–	tube 1/4 "	–	5792500310	5792500320	5792500720
Air conn. module	–	tube 5/16 "	–	5792600210	5792600220	5792600620
	tube 5/16 "	–	B	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

) only for US-market

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

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## ► Part no. for AC versions

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 6 x 1	A and B / I	5790505220	5790505270
	tube 8 x 1	tube 8 x 1	A and B / I	5790605220	5790605270
Stacking valve	–	tube 6 x 1	B / III	5791505220	5791505270
	–	tube 8 x 1	B / III	5791605220	5791605270
Stacking valve with add. compressed air port	tube 6 x 1	tube 6 x 1	B / II	5796405220	5796405270
	tube 8 x 1	tube 6 x 1	B / II	5796505220	5796505270
End valve	–	tube 6 x 1	–	5792505220	5792505270
	–	tube 8 x 1	–	5792605220	5792605270
Air conn. Module	tube 8 x 1	–	B	5790000092	5790000092

\* without electrical connector  
other voltages on request

## ► Part no. for AC versions ( Inch 1)

Description	Port 1	Port 2	Fig. / Item no.	Part no. * 24 V AC	Part no. * 110 V AC
Inlet valve	tube 1/4 "	tube 1/4 "	A and B / I	5790405320	5790405370
	tube 5/16 "	tube 1/4 "	A and B / I	5790505320	5790505370
	tube 5/16 "	tube 5/16 "	A and B / I	5790605220	5790605270
Stacking valve	–	tube 1/4 "	B / III	5791505320	5791505370
	–	tube 5/16 "	B / III	5791605220	5791605270
Stacking valve with add. compressed air port	tube 1/4 "	tube 1/4 "	B / II	5796405320	5796405370
	tube 5/16 "	tube 1/4 "	B / II	5796505320	5796505370
	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 "	–	B	5790000092	5790000092

\* without el. connector  
other voltages on request  
1) only for US-market

## ► Part no. for AC versions

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	5790505280	5790505680
	tube 8 x 1	tube 8 x 1	A and B / I	5790605280	5790605680
Stacking valve	–	tube 6 x 1	B / III	5791505280	5791505680
	–	tube 8 x 1	B / III	5791605280	5791605680
Stacking valve with add. compressed air port	tube 6 x 1	tube 6 x 1	B / II	5796405280	5796405680
	tube 8 x 1	tube 6 x 1	B / II	5796505280	5796505680
	tube 8 x 1	tube 8 x 1	B / II	5796605280	5796605680
End valve	–	tube 6 x 1	–	5792505280	5792505680
	–	tube 8 x 1	–	5792605280	5792605680
Air connection module	tube 8 x 1	–	B	5790000092	5790000092

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

## ► Part no. for AC versions ( Inch 1)

Description	Port 1	Port 2	Fig. / Item no.	Part no. * 220/230 V AC	Part no. * 110 V AC
Inlet valve	tube 1/4 "	tube 1/4 "	A and B / I	5790405380	5790405780
	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
	–	tube 5/16 "	B / III	5791605280	5791605680
Stacking valve with add. compressed air port	tube 1/4 "	tube 1/4 "	B / II	5796405380	5796405780
	tube 5/16 "	tube 1/4 "	B / II	5796505380	5796505780
	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 "	–	B	5790000092	5790000092

\* without el. connector \*\* 220/230 V AC model with LED  
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