

AUTOMATIC VALVES



EVERYTHING EASILY HANDLED





RELIABLE, LONGLASTING & ECONOMIC

These are just 3 essential advantages of the EO510 2 and 3 way PVC electric valves made by Praher Plastics®.

The extent of pool automation at private pool facilities is increasing continuously. The high quality valve series from Praher Plastics® offers reliability, long life-cycle and cost-effectiveness for pool facilities of any size.

Likewise, Praher Plastics® produces a wide range of electrical and pneumatic valves d75 - d225 and diaphragm valves for public pool installations, which are characterized by numerous technical advantages compared with conventional metal products.

 **DESIGNED
ENGINEERED &
MADE IN AUSTRIA**

Verified Quality

The quality of the raw materials, seals and accessories used is already checked before production. Controls are carried out continuously throughout the entire production process and the injection molded parts produced are checked again and again. Final leakage tests, tensile tests and pressure tests guarantee the high quality of Praher® products.

**OPTICAL
POSITION INJECTION**

MANUAL OVERRIDE

**ALSO AVAILABLE IN COMBINATION
WITH POOL SOLAR CONTROLS
AND ABSORBER SYSTEMS**

2 OR 3 WAY BALL VALVES



>>
It's
SO
EASY
>>





AUTOMATIC Ball valves

2-WAY BALL VALVES

2-Way Ball valve S6 EO510

- Dimensions: d40-d63
- IND 12-24 V AC/DC Manipulation time: 90° 12 Sec.
- Eco 230 V AC Manipulation time: 90° 22 Sec.
- Protection code: IP65, on-time: 60% / max. 20 Min.
- Input: P = 4 W / P max = 8 W
- CE Standard
- Position indication
- Optical position indication
- Manual override
- Compact construction
- PN3



2-Way Ball valve M1, 24 V with electric actuator

- Dimensions: d16-d110 (d75-d110 are available with valve model S4)
- CE Standard
- Position indication
- Optical position indication
- Manual override
- Compact construction
- PN16
- Adjustable limit switch
- Mechanical bracket
- Torque limiting



2-Way Ball valve M1, 230 V, with electric actuator

- Dimensions: d16-d110 (d75-d110 are available with valve model S4)
- CE Standard
- Position indication
- Optical position indication
- Manual override
- Compact construction
- PN16
- Adjustable limit switch
- Mechanical bracket
- Torque limiting



APPLICATION

- Private and public swimming pool and water treatment industry
- Irrigation and cooling systems
- Water attractions (fountains, water falls, etc.)
- Control valve for jet streams and spas

TECHNICAL DATA OF ELECTRIC ACTUATORS ER SERIES

Type	ER20
Torque	20 Nm
Voltage 24 V Voltage 90-240 V	50/60 Hz (24 V DC) 50/60 Hz (90 - 350 V DC)
Manipulation time	13 Sec.
Demand	15 W
ISO connection	F03-F04-F05
Octagon	14
End switch	two end switches preset two indicators
Mechanical stop	90°
High duty cycle	30%
Pivoting angle	90°
Protection code	IP65
Ambient temperature	-10° C up to +55° C
Weight	1 kg

AUTOMATIC Ball valves

3-WAY BALL VALVES

3-Way Ball valve S4 EO510 ECO

- Dimensions: d16-d50
- 24 V AC/eco EO510 230 V AC
- Manipulation time: 90° 22 Sec.
- Optical position indication
- Manual override
- Compact construction T-ball
- Chlorine and sea water resistant (corrosion free)
- Protection code IP 65
- Electric position indication
- CE Standard



3-Way Ball valve S4 EO510 IND

- Dimensions: d16-d50
- 12-24V AC/DC
- Manipulation time: 90° 12 Sec.
- Optical position indication
- Manual override
- Compact construction T-ball
- Chlorine and sea water resistant (corrosion free)
- Protection code IP 65
- Electric position indication
- CE Standard
- PN3



3-Way Ball valve S4 Solar

- Dimensions: d40-d63
- IND 12-24 V AC/DC 50-60Hz
Manipulation time: 90° 12 Sec.
- Eco 230 V AC
Manipulation time: 90° 22 Sec.
- Optical position indication
- Manual override
- Compact construction, T-Kugel
- Chlorine and sea water resistant (corrosion free)
- Protection code IP 65 (EO510)
- Electric position indication
- CE Standard
- On-time: 60% / max. 20 Min.



3-Way Ball valve S4, 24V/230V, with electric actuator

- Dimensions: d16-d63
- Manipulation time: 12 Sec.
- Protection code: IP66
- CE Standard
- Position indication
- Optical position indication
- Voltage:
15-30V 50/60Hz (12-48 V DC)
100-240V 50/60Hz (100 - 350 V DC)
- ISO connection: F03-F04-F0
- Double shaft sealing
- Anti-condensation system
- Manual override
- Compact construction
- PN16
- On-time: 50%
- Ambient temperature: -10° C up to +55° C



SPECIAL FEATURE

Patented Pressure Compensation System (Bypass-System)

Because of holes in the T-ball and in the pressure ring perfect for pool solar applications

**DESIGNED,
ENGINEERED &
MADE IN AUSTRIA**

AUTOMATIC Butterfly Valves

ELECTRIC ACTUATOR

Automatic Butterfly valve K4, ER actuator

- Dimensions: d63-d225
- 90-240 V AC and 24 V AC/DC
- Operation pressure: PN 10
- Made of PP-GF
- Direct installation of the actuator without any additional adapter or screws
- Mechanical limit stops
- Manual override
- Position indication
- Torque and force limiters
- Only sealing flange and disc in contact with medium
- Integrated bracket for fix point mounting



Automatic Butterfly valve K4, VS actuator

- Dimensions: d63-d225
- 100 V / 240 V AC, 24 V AC/DC
- Operation pressure: PN 10
- Made of PP-GF
- Direct installation of the actuator without any additional adapter or screws
- Mechanical limit stops
- Manual override
- Position indication
- Torque and force limiters
- Only sealing flange and disc in contact with medium
- Integrated bracket for fix point mounting



ELECTRIC ER-ACTUATOR

- Plastic body
- Power input up to 85 W
- 4 end switch adjustable
- Swingable 90° (180°)
- On-time: 30%
- Protection code IP65
- Operation temperature -10 °C up to +55 °C
- ISO-connection F05-F07 octagonal screw 22 mm

ELECTRIC VS-ACTUATOR

- Plastic/aluminium body
- Power input up to 85 W
- 4 end switch adjustable
- Swingable 90° (180°)
- On-time: 50%
- Protection code IP67
- Operation temperature -20 °C up to +70 °C
- ISO connection F07 - F10 octagonal screw 22 mm

PNEUMATIC Valves

BALL VALVE AND BUTTERFLY VALVE

Automatic Butterfly valve K4, pneumatic actuator

- PO-NC closed through spring load, means control air pressure opens valve
- PO-NO open through spring load, means control air pressure closes the valve
- PO-DA double acting, means control air pressure opens and closes the valve
- Dimensions: d75-d225
- Operation Pressure: PN 10
- Best pressure and temperature resistance
- Optical position indication
- Manual override
- Robust housing
- Chlorine and salt water resistant (corrosionfree)
- Multipurpose flange drilling (ANSI, DIN, JIS)
- Fast manipulation time



2-Way Ball valve M1, pneumatic actuator

- PO-NC closed through spring load, means control air pressure opens valve
- PO-NO open through spring load, means control air pressure closes the valve
- PO-DA double acting, means control air pressure opens and closes the valve
- Dimensions: d16-d63
- Operation pressure: PN 10
- Optical position indication
- Compact construction



PNEUMATIC ACTUATOR

- 2 counter acting pistons over gear rack, elastic sealing
- Body aluminium anodized, lid: aluminium epoxide resin, coated, screws and nuts: stainless steel
- Operation temperature: -20° C up to +80° C
- Control air: filtered air acc. PNEUROP/ISO class 4
- Installation position: optional
- Control functions / control pressure:
DA: double acting / min 5.5 bar – max 10 bar
SR: single acting / min 5.5 bar – max 8 bar
- Swivel angle: 90°, end position adjustable on both sides -10° up to +10°
- Mounting:
Actuator valve: ISO 5211
Actuator control valve: NAMUR (VDI/VDE3845)
Actuator signal device: NAMUR (VDI/VDE3845)
- Accessories:
- end switch box ½ and ¾ solenoid valve
- electric position indication
- 4 – 20 mA position control

FAMILY, SPORT, RELAXATION – THERE IS LIFE IN A POOL.



PERAQUA®

A POOL FULL OF LIFE

It is our highest permission to enrich every pool with creative, perfect fitting, affordable and durable pool technology. Our focus is on the maximum ease of use, safety, cleanliness and sustainability of the selected technology for your pool projects.

Tailored to the digital age, you can choose between fully automatic pool control systems based on WIFI connection or manual control systems in **Peraqua® Quality**.

Our mission is to implement Peraqua® & Praher Top Quality in all areas of sales, marketing, service, logistics, training, repair, and after-sales service with the best dedication.

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