

# AUTOMATIC BACKWASH VALVES



FOR ALL FILTER BRANDS





DESIGNED  
ENGINEERED &  
MADE IN AUSTRIA



since 1980

## AIR | CONTROL | EASY 2 | MP6 PLC

The Aquastar® backwash valves are a product series of **automatic backwash valves for filter systems in swimming pools**. Say goodbye to manual backwashing and experience convenient filter cleaning with modern technology.

**50 years of experience in research and development** and millions of applications speak in favour of the quality of the Aquastar® series. The valves are characterised by **optimum flow values, above-average service life and minimal pressure losses**. The low piping effort ensures easy commissioning.

**Peraqua maintains a broad programme of backwash valves:**

- » Side Mount | Top Mount
- » 1½" | 2" | 3"
- » 3.5 - 6 bar operating pressure

### SIMPLE UPGRADE

The most widely used pool filter systems in the world are equipped with manual (6-way) backwash valves. Even manual pool filter systems of all common brands can be subsequently automated. With the help of the Aquastar® models and a suitable Praher valve and piping set, cleaning the filter system is child's play.

### CONVERSION FROM MANUAL TO FULLY AUTOMATIC BACKWASH VALVE



# AQUASTAR® MODELS

## function overview



	mp6 plc	Easy 2	Control	Air*
Timer switch		+		+
Pressure switch		optional	+	optional
Digital clock			+	+
Filter pump clock			+	+
Heating control			+	+
Solar control			+	+
Level control			+	+
1½", 2"	+	+	+	+
3"	+		+	
Manual override	+	+	+	+
IP65	+	+	+	+
Operating voltage (50-60Hz)	24 – 230V AC	230 V	24 – 230V AC	230 V
Emptying, filtering, backwashing, rinsing	+	+	+	+
Circulate	+	+	+	+
7 positions (closed / winter position)	+		+	+
¼ NC/NO contact Pump connection	+	+	+	+
Potential-free connection for ball valve EO510		+	+	+

\* when using the Loxone® Smart Home App

### SAFETY FIRST

Visual position indicator shows the current valve position, manual override, pressure sensor monitors the system pressure, protection class IP65

### POOL CONTROL FUNCTIONS

The option of connecting other pool technology components to the Aquastar® drive opens up further practical control functions. With the Aquastar® Control, complete pool control is even possible.

### TIP: CIRCULATE SPARINGLY

The valve position allows the pool water to be heated without loss of pressure. The water does not have to run over the filter. This means that PV surpluses, for example, can be utilised efficiently.

### DIRECT EMPTYING

Through the valve rather than the filter, the valve position is changed gently when the filter pump is automatically switched off. This protects the pump and extends its life.



Symbolic image:  
Aquastar® Control

# LOXONE AQUASTAR® AIR

- » Intelligent 6-way backwash valve for automated pool control with the Loxone Smart Home System. It automates filter and backwash times and offers expansion options for complete pool control, opening up numerous application possibilities, as smart home and smart pool functions can be combined and used together
- » For valve sizes 1½" and 2", can be retrofitted to all known filter brands using 1½" and 2" Praher Side Mount or Top Mount valve incl. Praher ABS pipework and fittings for quick and easy installation
- » Features:  
Optical position indicator, manual override, best flow values, low pressure loss, above-average service life
- » Interfaces:  
1-Wire input for connecting 1-Wire temperature sensors, 1 analogue input 0.5 - 5V (e.g. for filter pressure monitoring), 1 analogue input 0 - 10V (e.g. for pressure sensors for level control) 3 relays 250VAC 5A for free use, Loxone® Air technology for wireless connection to the Loxone® Miniserver, direct pump connection (250V AC, 8A), direct connection for 2- or 3-way EO510 electric ball valve (e.g. sewer pipe)
- » Free updates by Loxone Miniserver, free visualisation by Loxone® Miniserver via iPhone, iPad and Android
- » Electric actuator 100 - 240V AC
- » IP65 protection class



## Smart backwashing with Loxone AQUASTAR® Air



WLAN  
CONNECTION



SMART PHONE  
APPLICATION



LOXONE  
MINI SERVER

## AQUASTAR® Air extensions

The Aquastar® Air can be used to control the filter and backwash times. It can also be used to regulate the water level and pool temperature.



### PRESSURE SENSOR

for automatic backwashing with pressure increase (not included in the scope of delivery)



### PRESSURE SENSOR

for level regulation overflow equalisation tank (not included in the scope of delivery)



TEMPERATURE  
SENSOR

## iQnnect pool system with AQUASTAR® Air

Additional integration of underwater lighting (controllable and dimmable), heat pump, filter pump, salt electrolysis and dosing systems by means of extensions.



### LOXONE MODBUS\*

Control and integration of Peraqua water treatment systems and heat pumps



### LOXONE DMX\*

Control and integration of VISION underwater lighting



### LOXONE AO

Integration of Smart & Ocean® swimming pool pumps

**iQnnect**  
SMART POOL



The Aquastar® Air is part of the iQnnect system from Peraqua®. iQnnect is the combination of intelligent networked pool technology from the Peraqua® product range. With the aim of being able to operate a fully automatic, safe and sustainable pool system via a smart end device, iQnnect from Peraqua® creates 100% added value in daily pool operation.

The pool technology functions can be operated manually or automatically via the app. With the automatic designer, various functions can be made dependent on each other or different modes can be generated.

## MORE INFO

### Webshop



[www.iqnnect.net](http://www.iqnnect.net)

This is THE address for a clear presentation of all information on the iQnnect system.

[shop.peraqua.com/Downloads](http://shop.peraqua.com/Downloads)

The iQnnect guide provides detailed information on the realisation of an iQnnect pool. This includes technical information, installation instructions, system diagrams, item numbers and much more.

# AQUASTAR® CONTROL

- » Fully automatic control of the filtration processes via digital display, in addition to time & pressure-dependent backwash triggering, pump control, temperature or solar control and level control can also be realised
- » Can be programmed according to individual requirements
- » For valve sizes 1½", 2" and 3", can be retrofitted to all known filter brands using Praher Side Mount or Top Mount valve incl. Praher ABS pipework and fittings for quick and easy installation
- » Features:  
Optical position indicator, manual override, best flow values, low pressure loss, Above-average service life
- » Multi-range operating voltage (100-240 VAC 50-60 Hz/150-300VDC or 24 V AC/DC)
- » Interfaces:  
Freely configurable relays and digital inputs, 3 digital 1-wire sensors
- » Real RTC with 10 year battery
- » IP65 protection class



## Backwash valve AQUASTAR® Control



INTEGRATED  
DIGITAL CLOCK



INTEGRATED  
PRESSURE SWITCH



HEATING CONTROL  
LEVEL CONTROL  
PUMP CONTROL

The new functions combined in one device provide a perfect overview, even more application security and customised control as required.

### BACKWASH RELEASE

A backwash is triggered depending on time and pressure. Digital inputs also enable control via external control units. With the new display, the backwash can also be triggered via the menu.

### PUMP CONTROL

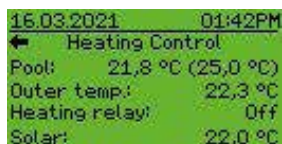
The new Aquastar® Control regulates the filter times fully automatically, which can be set via the menu. The valve disc rises when the valve changes position. The pump is automatically switched off to depressurise the valve disc.

### TEMPERATURE OR SOLAR CONTROL

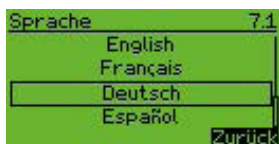
The „heating“ relay can be used to switch off a heating system before the pump is switched off. Up to 3 digital 1-Wire sensors can be connected: Heating control with pool sensor, solar control with additional solar sensor and outdoor temperature display

### LEVEL CONTROL

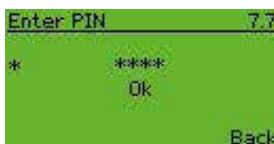
The float switch can be connected to skimmer pools via a digital input. If the water level in the pool is too low, water is automatically topped up. The top-up is monitored using a filling time monitor.



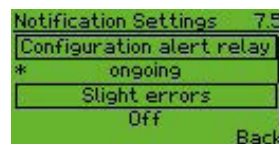
Perfect overview: automatic display of all parameters in status screen



Multilingual available in German, English, French and Spanish



PIN-protected Secure System only allows authorised users to make changes



Innovative alert system: Permanent monitoring, error message and automatic emergency stop if necessary

**iQmfort**  
POOL AUTOMATION



The centre of the iQmfort pool is the Aquastar® Control, which can be used to centrally control many functions of the entire Peraqua® pool technology. Good, networked control technology for the pool saves the pool owner a lot of time, is energy-efficient and contributes to sustainable operation. With the right pool technology, there are many options for automation.

## MORE INFO

### Webshop



[www.iqmfort.net](http://www.iqmfort.net)

This is THE address for a clear presentation of all information on the iQmfort system.

[shop.peraqua.com/Downloads](http://shop.peraqua.com/Downloads)

The iQmfort guide provides detailed information on the realisation of an iQmfort pool. This includes technical information, installation instructions, system diagrams, item numbers and much more.

# AQUASTAR® MP6 PLC

## Backwash valve AQUASTAR® mp6 plc

- » Ideal for control with PLC/PLC systems, therefore integration in smart home systems is also possible
- » For valve sizes 1½", 2" and 3", can be retrofitted to all known filter brands using Praher Side Mount or Top Mount valve incl. Praher ABS pipework and screw connections for quick and easy installation
- » Multi-range operating voltage (100-240 VAC 50-60Hz/150-300VDC or 24V AC/DC)
- » Potential-free terminals, for controlling Praher EO510 electrical fittings
- » Direct pump connection
- » Direct error handling integrated, early detection of system errors in order to carry out maintenance
- » Relay with gold contacts for feedback



# AQUASTAR® EASY 2

- » Simple operation with integrated timer and optional pressure switch, external control also possible if pump monitoring is activated, a check is carried out before each backwash process to ensure that the pump is switched on or connected
- » Switch for extending the settling time, switch for switching to an OEM programme
- » Potential-free terminals, for controlling Praher EO510 electrical fittings
- » Readout of possible error using multifunction relay
- » For valve sizes 1½" and 2", can be retrofitted to all known filter brands using Praher Side Mount or Top Mount valve incl. Praher ABS pipework and fittings for quick and easy installation
- » Manual override, visual position indicator, IP65 protection class



## Backwash valve AQUASTAR® easy 2



TIME SWITCH

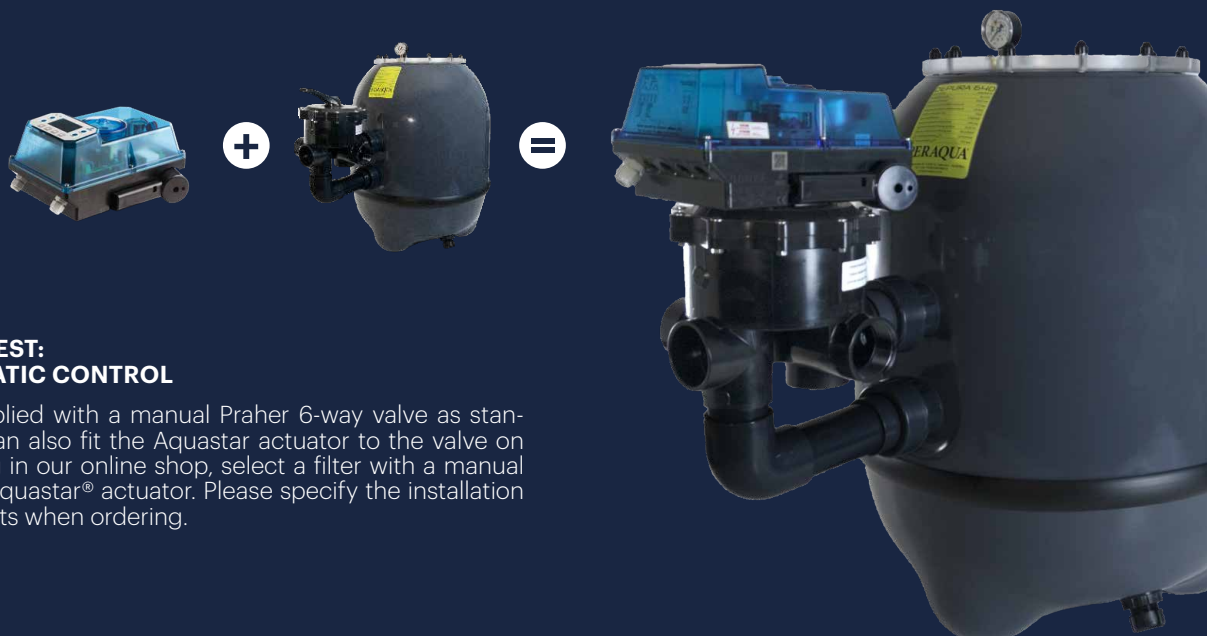


PRESSURE SWITCH



### INSTALLATION REQUEST: FILTER WITH AUTOMATIC CONTROL

Peraqua filters are supplied with a manual Praher 6-way valve as standard. At Peraqua, we can also fit the Aquastar actuator to the valve on request. When ordering in our online shop, select a filter with a manual valve and a matching Aquastar® actuator. Please specify the installation request under comments when ordering.



FAMILY, SPORT, RELAXATION - THERE'S LIFE IN A POOL.



**PERAQUA®**

# A POOL FULL OF LIFE

Our top priority is to enrich every pool with creative, perfect, affordable and, above all, durable pool technology. The focus is on ensuring that the selected technology provides maximum ease of use, safety, cleanliness and sustainability for your project.

Adapted to the digital age, you can choose between fully automatic pool control solutions based on WiFi or manual system solutions in **Peraqua®-Quality**.

Our mission is to implement Peraqua® & Praher top quality in all areas of our range of services from sales, marketing, logistics, training, service as well as repair and after-sales service with the best commitment.

# PERAQUA®



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