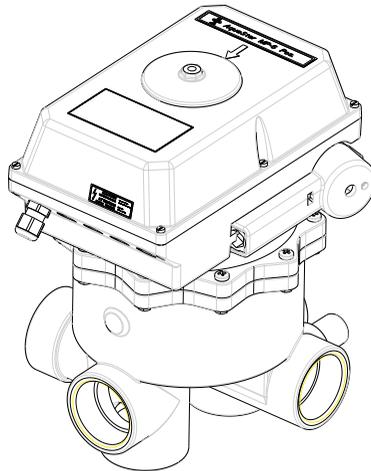


Operating instructions AQUASTAR - 6 Positionen for 1 1/2", 2" and 3" 24 VAC



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Ensuing damage due to neglect of the operating instructions or due to damaging sealed parts lead to a lapse of the warranty. We do not take on liability for thus resulting damages! Please read the operating instructions carefully before starting!

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2. Safety instructions:

- This equipment has been built and examined according to the safety precautions for electronic devices and has left the plant in a perfect safety-related condition.
- To keep this status and to guarantee a safe operation, the user must observe the safety instructions, which are included in these operating instructions.
- The installation work may only be undertaken by an authorized and licensed installer or electrical business.
- The electrical installations must be carried out according to the respective local and regional regulations (e.g. OEV; VDE, ...) and possible official regulations.
- The electrical connection must have separating device built into the permanently installed electrical installation, which enables the disconnection of all electrical contacts with a contact space of minimum 3 mm from the mains.
- Pay attention that the supply voltage is correctly protected and an earth-leakage circuit breaker < 30 mA is installed.
- Only use the equipment in dry rooms, in which no combustible gases and vapors are present.
- Do not operate the equipment immediately if it has been taken from a cold into a warm area the thereby developing condensation water could destroy your equipment.
- If the equipment has visible damages doesn't work anymore or has been stored for longer periods under adverse conditions, then it is to be expected that a safe operation is not possible anymore. In this case the equipment is to be secured against unintentional start-up and if necessary to be decommissioned.
- Live parts can be uncovered when opening the cover or removing parts. Before an alignment, maintenance, a repair or a change of parts or devices, the equipment must be separated from all voltage supplies, if opening the equipment is necessary! If after that an alignment, maintenance or a repair on the opened equipment under voltage is inevitable, it may only be done by experienced skilled personnel, who have knowledge of the associated dangers and/or the relevant regulations.
- Capacitors in the equipment can be still charged, even if the equipment is separated from all voltage supplies.
- Assembly and/or disassembly of the armature only in a pressure-free status (i.e. empty piping beforehand).
- Armature flow and/or direction of flow must be considered!

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A) Installation instructions

1. PRE-CHECK (Visual)

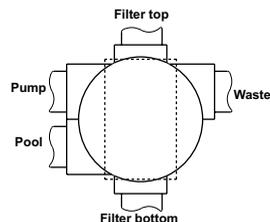
Visual check of system for shipping damages. The system has been checked by the manufacturer for proper, mechanical and electrical functional operation.
Warranty according to "EU-Law".

2. Installation of system

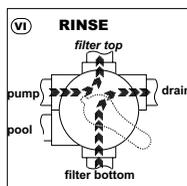
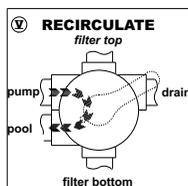
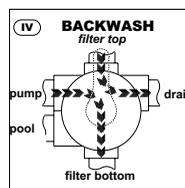
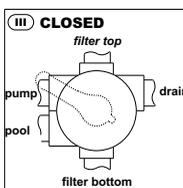
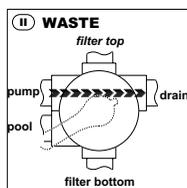
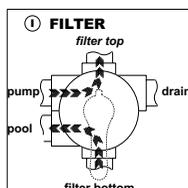
2.1 Installation of the valve

Plumb the valve according to the discription of the ports and the underneath sketch to the filter system. Please use teflon tape or Permatex No. 2 to seal threads. The system is functionable in any position, but if possible do not install it with the servo-motor upside down.

PUMP	from PUMP
TOP	to FILTER (sand) from Filter (D.E.)
BOTTOM	from FILTER (sand) to Filter (D.E.)
Return	to POOL
Waste	to WASTE



2.2 Function- and Installationscheme



- I : Filtration of medium (i.e. Water)
Pool - Pump - Valve (to filter) - Valve (from Filter) - Pool
- II : Drainage of pool with pump
Pool - Pump - Valve - Drain
- III : No circulation, Do not operate pump!
Pool - Pump - Valve
- IV : Cleaning up filter medium (i.e. Sand) in upstream (reversed flow in filter)
Pool - Pump - Valve (from filter) - Filter - Valve (to filter) - Waste
- V : Recirculation of fluid without filter (Bypass filter)
Pool - Pump - Valve - Pool
- VI : Cleaning of filter medium (i.e. Sand) after backwash

TECHNICAL DATA:

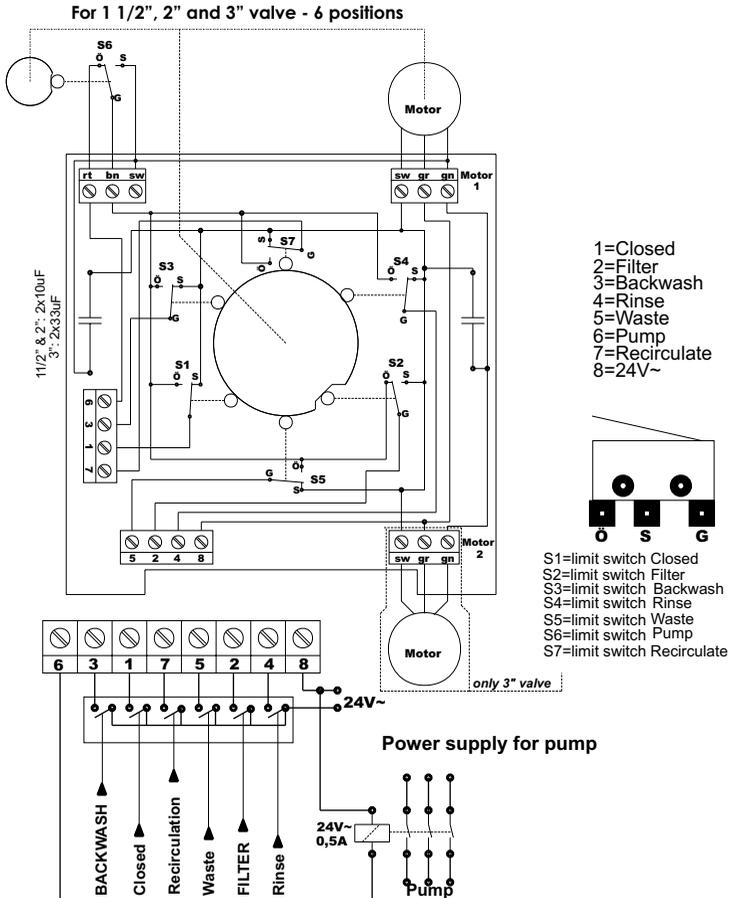
6-way backwash valve: 1 1/2", 2", 3"
Conections: Thread and solvent (all open)
max. Operating pressure:
ABS 1 1/2", 2": 3,5 bar; GFK 1 1/2", 2": 6 bar
GFK 3": 5 bar

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Wiring diagram



Technical Data:

Operating voltage: 24 VAC 50/60 Hz
max. operating power during change over:
1 1/2", 2": 10 VA; 3": 20 VA
Type of protection: IP 65

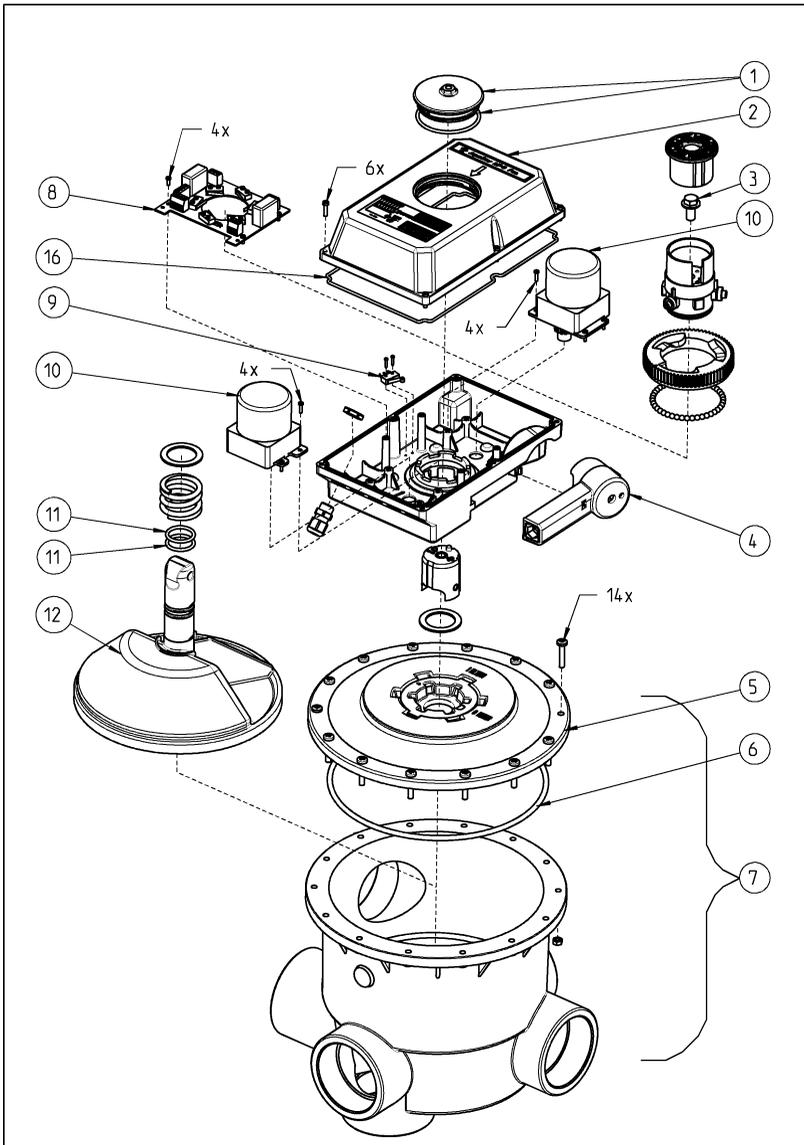
ATTENTION!
Only one position can be triggered.
for example: "Filter" or "Backwash".
but not Filter and Backwash together!

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1 1/2", 2", 3" Valve



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OPERATING INSTRUCTIONS FOR MANUAL OVERRIDE

When power failure or control problems occur

1. Always disconnect power supply (i.e. Control cable from actuator) before Operating manual override
2. Always depressurize valve (switch pump off and close valves in lines with static pressure)
3. Operation of the manual override:
Decompress manual override handle fully and turn clockwise. Let handle snap into locking position once desired position is reached. A high break torque requires increased force at the beginning of the rotation.

ATTENTION:

Always depressurize valve before operating manual override

Do not use manual override on a regular basis since it was designed for emergency activation only.

PRAHER VALVES
Tel.: ++43 / (0) 72 62 / 61 178 - 0*
Fax: ++43 / (0) 72 62 / 61 203
austria@praher.com ; www.praher.com



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Demontageanleitung

