



Kako odabrati najbolju izvedbu filtracije?

Općenito, svu vodu u bazenu treba filtrirati najmanje četiri puta dnevno. Trebali bismo podijeliti količinu vašeg bazena sa 6 kako bismo dobili minimalnu potrebnu filtraciju. Ako namjeravate kupiti bazen s volumenom od 24 m³, trebat će vam sustav filtracije s minimalnom snagom od 4 m³ / h.

Model	P 350	P 450	P 500	P 650
Za bazene do	24 m ³	36 m ³	54 m ³	72 m ³
Izlaz	4 m ³ / h	6 m ³ / h	9 m ³ / h	12 m ³ / h
6-smjerni ventil	na vrhu	na vrhu	na vrhu	na vrhu
Punjenje pijeska	20 kg	45 kg	85 kg	145 kg

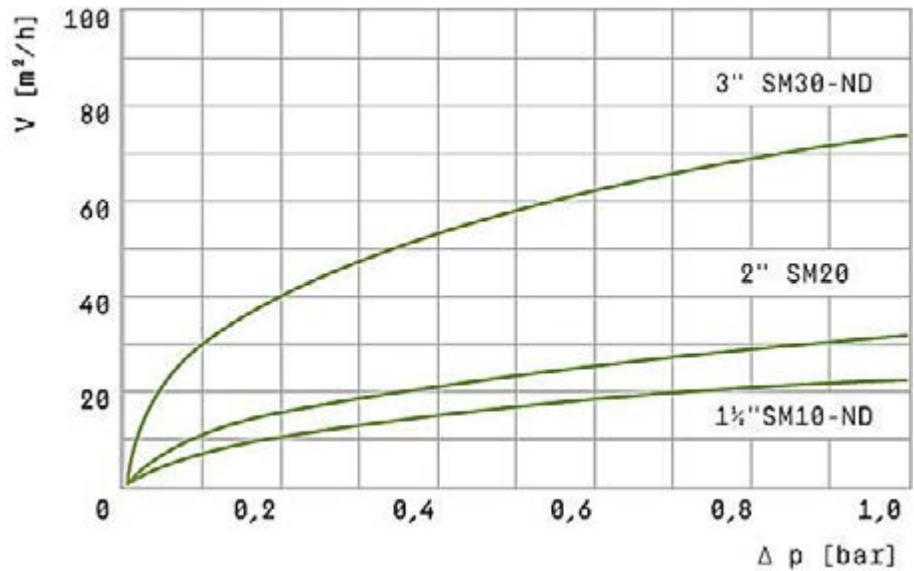


Model	SP 450	SP 500	SP 650	SP 700
Za bazene do	36 m ³	54 m ³	72 m ³	96 m ³
Izlaz	6 m ³ /h	9 m ³ /h	12 m ³ /h	16 m ³ /h
6-smjerni ventil	bočno	bočno	bočno	bočno
Punjenje pijeska	45 kg	85 kg	145 kg	210 kg

MULTIPOINT VALVES



Code	Description	PKG	WGT
031020	C Multiport valve TOP 6/4" Threaded connections	1	1,9
031022	C Multiport valve SIDE 6/4" Threaded connections	1	1,6
031023	C Multiport valve SIDE D63	1	2,9
031027	C Multiport valve clamp set for Gemas filter	1	0,5
030024	C 4-way valves	1	1,5
030026	C 6-way valves	1	2,5



Code	Description	PKG	WGT
032022	C Peraqua back wash valve 6-way SIDE 1 1/2" / 50mm	1	2,3
032036	C Peraqua back wash valve 6-way SIDE 1 1/2" / 1 1/2"	1	2,3
032020	C Peraqua back wash valve 6-way TOP 1 1/2"	1	2,4
032023	C Peraqua back wash valve 6-way SIDE 2"	1	3,4
032037	C Peraqua back wash valve 6-way SIDE 2" / 2"	1	3,4
032024	C Peraqua back wash valve 6-way SIDE 2 1/2"	1	7,2
032025	C Peraqua back wash valve 6-way SIDE 3"	1	7,6
032026	C Peraqua back wash valve 6-way SIDE D90	1	7,6
032027	C Peraqua valve clamp set	1	0,3

AUTOMATIC VALVES



Code	Description	PKG	WGT
032030	C Peraqua pipe-system for back wash valve Hayward 6/4"	50	0,66
032031	C Peraqua pipe-system for back wash valve Hayward 2"	50	0,36
032032	C Peraqua pipe-system for back wash valve Pentair 6/4"	50	0,53
032033	C Peraqua pipe-system for back wash valve Pentair 2"	40	0,78
032034	C Peraqua pipe-system for back wash valve Astral 6/4"	50	0,57
032035	C Peraqua pipe-system for back wash valve Astral 2"	40	0,6



Code	Description	PKG	WGT
033070	C Filter pallet 800 x 450 x 50 mm	5	8
033080	C Filter pallet 1000x550x50 mm	5	10



	Aquastar easy 1000	Aquastar easy 4000	Aquastar mp	Aquastar comfort 3000	Aquastar comfort 4000	Aquastar comfort 6500	Aquastar 5000
Time switch	x	x			x		
Pressure switch		x			x	x	
Digital timer				x		x	x
Filter pump-clock						x	x
Manual override	Available as additional accessories		x	x	x	x	x
IP65	x	x	x	x	x	x	x
Multi voltage actuator 12-34V DC, 12-230V AC (50-60Hz)	x	x	24 or 230V	x	x	x	230-400 V *
Drain, filter, back wash, rinse circulation	x	x	x	x	x	x	x
closed			x				
Pump connection	x	x	x	x	x	x	x
Potential free connection for electric ball valve E0510	x	x		x	x	x	x
RSV 1½" + 2" **	x	x	x	x	x	x	x
RSV 3" **			x	x	x	x	x

Code	Description	PKG	WGT
032122	B Peraqua AQUASTAR EASY 1001 SIDE 6/4"	1	4,2
032123	B Peraqua AQUASTAR EASY 1001 SIDE 2"	1	5
032322	B Peraqua AQUASTAR COMFORT 3001 6/4"	1	4,2
032323	B Peraqua AQUASTAR COMFORT 3001 2"	1	5
032325	B Peraqua AQUASTAR COMFORT 3001 3"	1	7,5

I. Description of filtration tank and six-way valve functions

The complete assembly is used for maintaining and cleaning pool water. It comprises the actual filtration tank with a plastic base and a six-way valve. The water is filtered by running through the filtration tank filled with a filtration medium with the help of a circulation pump. The most widespread filtration medium is silica sand. Dirty pool water is taken in and then pumped out by the circulation pump through plumbing (pipes, fittings, valves) and the six-way valve into the actual filtration tank. The six-way valve has a built-in pressure gauge which also serves to visually inspect the level of contamination of the filtration medium. Water passes through the filtration medium, which traps dirt particles. Cleaned water is forced out into the plumbing through pipes, fittings, and circulation valves, and back into the pool. This process of cleaning pool water is highly efficient, smooth, and ensures full recirculation of pool water.

II. Installation

Unless you are able to rely on the help of a professional for installing equipment, we recommend locating the filtration unit as close as possible to the frame of the pool, or up to a maximum distance of approx. 5 m. If it is necessary to install the filtration unit at a distance over 5 m, please seek professional help. The unit must be installed on a firm flat surface. We recommend a concrete panel with a minimum thickness of 10 cm. For reliable maintenance and operation, we recommend installing the whole unit under the level of the surface of the pool water. The plumbing system, including intake and return pipes, must be equipped with closing valves. We recommend setting up a sewer leading to the place of installation of the unit. The sewer may be utilized throughout the operation and maintenance of the unit.

Filling of the filtration tank with filtration medium

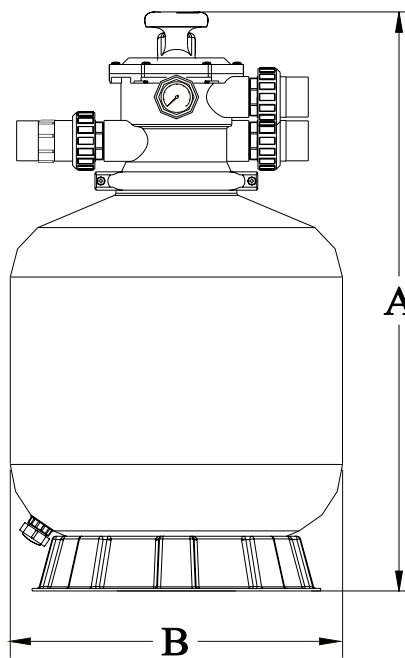
Place the plastic base on the selected spot before filling in the filtration tank. Install the complete drain valve at the bottom of the tank and tighten it.

Six-way valve:

1. Loosen the flange clamp and exert a slight upward pull on the six-way valve to remove. Remove the rubber seal from the groove on the neck of the sand tank.
2. Cover the centre pipe with a plastic guard or any other suitable method and slowly pour in the required amount of the filtration medium (approx. 3/4 of the sand tank). When pouring in the medium, proceed slowly to prevent movement of the centre pipe from the middle. Even out the surface of the medium in the tank. Remove the plastic guard from the centre pipe.
3. Thoroughly clean the groove on the neck of the sand tank. Replace the six-way valve, including the rubber seal. Apply suitable waterproof grease to the seal. We recommend using silicone-based grease.
4. Re-install the six-way valve. Carefully push the bottom hole of the valve onto the centre pipe with a slow twisting motion. Re-install the flange clamp and lightly tighten the bolts.
5. Install the pressure gauge. Screw in the pressure gauge, including the seal, and coat the seal with grease. Tighten the pressure gauge in the housing very carefully and gently using plastic internal threading.
6. Fasten the connecting hose to the return flange of the circulation pump and to the flange of the six-way valve marked with the casting reading PUMP (water in).

7. Connect the six-way valve to the return line at the flange marked with a casting reading RETURN (water out). Connect the rest of the plumbing.
8. We recommend connecting the flange of the six-way valve marked as WASTE to a sewer, if possible.
9. Flood the plumbing with water and make sure that all of its parts are watertight. If you detect a water leak, tighten the connection lightly. It is important to note that all adapters and connections are made of plastic. The fasteners may be damaged if they are overtightened. We recommend entrusting assembly of these to professionals.

III. Main proportions



Dimensional table

Model	High A (mm)	Diameter B (mm)	Set flow (m ³ /h)	Sand (kg)
P350	726	335	4	20
P450	814	455	6	45
P500	845	535	9	85
P650	950	635	12	145

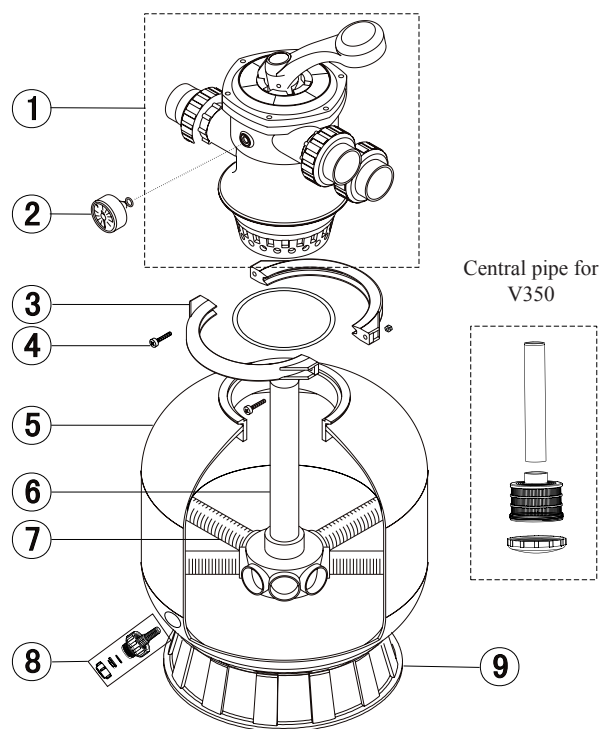
IV. Installation/starting up the filtration

Whenever the six-way valve is being operated in any way, especially when changing its positions, the circulation pump must not be turned on!

1. Press the lever of the six-way valve downwards and turn it to the BACKWASH (flushing) position. It is important to note that using this function will result in a large volume of water flowing out of the nozzle!
2. Flood the pump and turn it on by following the directions (check that all intake and return lines are open) to fill the filtration tank with water. As soon as water comes out of the Waste nozzle, the system is flooded. It is important to flush any new filtration medium thoroughly before any other functions are selected. Flushing the medium may take a few minutes, please account for a loss of volume in the pool water. Turn off the Backwash as soon as clean water emerges from the nozzle. Use the inspection window in the pipeline to check that the water is clear.
3. Irrigate the pump and turn it on according the instructions (make sure that all suction and reversing pipes are opened), to fill the filtration container with water. When water is running out through the waste hose, leave the pump in operation at least for one minute. The primary sand rinse is recommended due to the removing of the dirt and fine particles.
4. Turn the pump off and set the valve in the position RINSE. Activate the pump and let it run for about half a minute to one minute until the water in the aperture is not clean. Turn the pump off, set the valve back in the position FILTER and re-activate the pump. The filtration is running now in the standard filtration mode and filter off the dirt from the pool water.
5. After a certain period of filtration, the pressure gauge will start to show an increase in pressure, meaning that the filtration medium has been contaminated with impurities. It is necessary to carry out the flushing procedure at this point. For flushing of the filtration medium, proceed in the same way as described above, including the sedimentation procedure. Carry out the flushing procedure whenever the pressure gauge shows a pressure of approx. 1.7 – 1.9 bar.

Note: During the first cleaning of the new pool water there might be necessary to rinse the filtration sand more often because this water contains more dirt.

V. List of filtration components



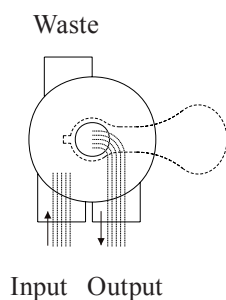
Item	Product Description	Product code
1	Six-way valve	BXNDFN048
2	Pressure gauge with O-ring	BXNDFN009
3	Flange clip	BXNDFN027
4	Screw with nut	
5	housing for P450 and FSP450	BXNDFN011
	housing for P500 and FSP500	BXNDFN012
6	centre pipe for filtration P350	BXNDFN038
	centre pipe for filtration P400	BXNDFN039
	centre pipe for filtration P450	BXNDFN040
	centre pipe for filtration P500	BXNDFN041
	centre pipe for filtration P650	BXNDFN042

Item	Product Description	Product code
7	discharge pipe for filtration P400-P450	BXNDFN043
	discharge pipe for filtration P500-P700	BXNDFN044
	discharge pipe for filtration SP450	BXNDFN045
	discharge pipe for filtration SP500-SP700	BXNDFN046
8	discharge valve	BXNDFN050
9	base under vessel P350	BXNDFN019
	base under vessel P400-P450	BXNDFN020
	base under vessel P500-P750	BXNDFN021

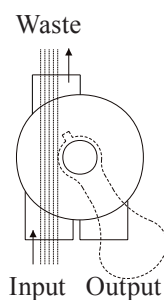
VII. Valve functions and its settings

Position of the valve	Functions
FILTRATION	Standard filtration and suction.
RINSE	Flushing of filtration media (Backwash).
FILTRATION PROCESS (BACKWASH)	Removing residual impurities in the medium after the flushing procedure has been carried out.
WASTE	Lowering pool water surface level, vacuuming
RECIRCULATION	Water circulation
CLOSED	Valve closed

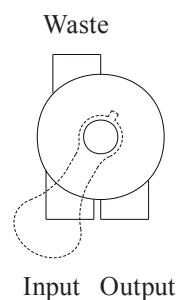
FILTRATION



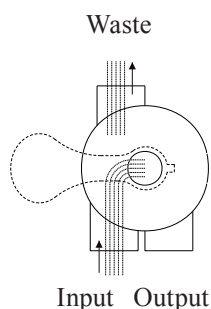
WASTE



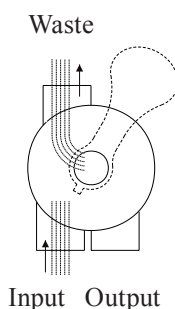
CLOSED



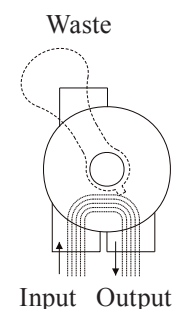
BACKWASH



RINSE



RECIRCULATION



Description of functions:

FILTRATION: Standard operation for cleaning and preserving pool water. The cleaned water passes through a filtration medium.

BACKWASH: Cleaning of the filtration medium. This function has the opposite effect from the filtration function and pool water flows through the filtration medium in the opposite direction to flush out impurities from the tank. The flushing time is dependent on the level of contamination of the filtration medium and may take up to a few minutes. Before turning on this function, we recommend filling up the pool with extra water (approx. 1m³). Beware: When using this function, it is necessary to ensure that water can be drained away from the six-way valve, see Installation/Starting up.

RINSE: Final cleaning of the filtration medium. The flow of water is the same as for regular filtration. Beware: When using this function, it is necessary to ensure that water can be drained away from the six-way valve, see Installation/Starting up.

WASTE: This function makes it possible to drain pool water swiftly and quickly. The drained water does not run through the filtration medium. This function can be used for pool maintenance and vacuuming. We recommend using the vacuuming method for removing larger volumes of impurities, which are deposited as sediment at the bottom of the pool frame, e.g. after using coagulating agents (clarifiers). Beware: When using this function, it is necessary to ensure that water can be drained away from the six-way valve, see Installation/Starting up.

RECIRCULATION: This function diverts water away from the filtration medium. The water flow may be used for flooding the filtration system, or for removing excessive air from the system.

CLOSED: There is no water flow through the six-way valve. For example, this function is used when it is necessary to remove the circulation pump from the plumbing lines. Beware: The circulation pump must not be turned on when this function has been selected!!

Recommendation: During winter shutdown, place the lever of the six-way valve into any in-between position to prevent excessive wear of the inner spider seal. Never switch functions of the six-way valve when the pump is on!

CAUTION: If a fault of the valve appears, seek professional help. We do not recommend DIY valve disassembly. It is mandatory to receive technical training from the manufacturer before dismantling the six-way valve. If you attempt to disassemble the valve by yourself regardless of the above, proceed with care. There is a risk of injury.

WARNING

- Turn the pump off before changing the position of the six-way valve
- Do never operate this installation without water.
- Do never connect the filter directly to the water source from the water supply system. Water pressure from the water supply system might be much higher than the maximum pressure of the filter.
- Do never turn the pump on if the position on the six-way valve is set on closed position or if pipes of the circulation system are impassable. There is a risk of a higher pressure than the working pressure which can lead to the damage, disruption, separation of the six-way valve cover that might cause injuries or deterioration of assets.
- It is not permitted to sit on or burden the installation.
- Do not clean the filter cover nor the filter container with a solvent, it could damage its surface (tarnishing, transparency, etc.)
- Clean regularly the capillary filter of the pump and the skimmer basket in order to prevent the damage of the pump and ensure the proper operation of the system.
- Do not screw out flanged connectors if the pump is running.
- All connectors are equipped with the padding, therefore there is no need to screw the nuts too tightly, it could damage the plastic components.