

## INITIAL START UP

1. Make sure the correct amount of media is in the filter tank.
2. Set valve handle to the BACKWASH position.
3. Prime pump
4. Start pump and operate in BACKWASH cycle for 3-4 minutes (New media is often dusty, so a longer than normal initial backwash may be required to prevent dust entering pool)
5. Turn pump OFF and set valve handle to RINSE. Start pump and run for 1 minute.
6. STOP pump and set valve handle to FILTER. Restart pump. Your system is now operating on a normal cycle.
7. When a pool is filled initially the filter may have to be backwashed once a day until the water becomes sparkling clear. From that point on, backwash when pressure gauge indicates a 30 to 40 kPa increase from the first start up pressure reading

## OPERATIONAL & INSTALLATION TIPS

Always turn pump OFF before changing valve position.  
 Never run pump dry as it depends on water for lubrication.  
 Always maintain minimum water level to ½ way up the skimmer.  
 Clean pump and skimmer baskets regularly  
 Maintain a proper chemical balance.  
 Turn pressure gauge on valve in a position that doesn't allow rain and moisture to collect on glass face.  
**ALWAYS CONSULT YOUR LOCAL POOL PROFESSIONAL COMPANY FOR QUALITY PRODUCTS AND EXPERT ADVICE.**

## FILTER CLEANER & DEGREASER

We recommend the use of **Lo-Chlor Filter Cleaner & Degreaser** once a year in your HI-RATE Media Filter.  
 This product removes grime, dead algae, oil, organic deposits as well as scale and unwanted metals.  
 This is an ideal after-summer maintenance program

## SD HI-RATE MEDIA FILTER

Model	Tank Diameter	Filter Area	Port Size	Flow Rate LPM	Filter Sand	M3 Media
					(KG)	
SD500	510mm	0.2 Sqm	40mm	165	90	75
SD600	610mm	0.3 Sqm	40mm	280	150	120
SD700	705mm	0.38 Sqm	40mm	320	175	135
SD705	705mm	0.38 Sqm	50mm	360	175	135
SD800	780mm	0.45 Sqm	50mm	400	250	195

## WARRANTY

Your Austral HI-RATE Media Filter is covered by a limited 10 year warranty against defects in materials and faulty workmanship from the date of purchase (plus 30 days for installation)

Limitations: In-field labour warranty is covered for a period of 12 months from purchase (plus 30 days for installation). The valve, unions, pressure gauge and all internal parts are covered for a period of 12 months and the filter tank is covered for 10 years.

Exclusions include, but not limited to, sanitiser levels in excess of 15ppm, water pressure exceeding 250 kPa, use other than swimming pool and spa filtration, water temperature above 40 degrees Celsius, the filter media, acts of God and misuse or abuse whether accidental or intentional. Austral assumes no liability for consequential damages of any kind. Austral reserves the right to inspect all merchandise and installations for compliance with warranty conditions and reserves the right to repair or replace defective parts at its discretion.

A commercial installation, which is defined by any use other than private home swimming pool and or spa use, is limited to a Filter Tank warranty of 3 YEARS from the date of purchase (plus 30 days installation).

## GENERAL NOTES

1. Allow sufficient clearance around the filter system for access and maintenance.
2. Provide adequate ventilation for pumping equipment.
3. Provide solid mounting for filter and pump. If installed outdoors, install system on a concrete slab or base to avoid the risk of settlement.
4. Installation of pumps and filters should be located as close to the pool as possible to avoid excess piping.
5. If system is installed below pool water level it is important to install isolating valves to prevent risk of flooding from back up water from the pool or spa.
6. The proper media selection is critical to the filters performance. Insure the filter media used is an approved Quartz Silica, or M3 media, available from all Professional Pool Companies.
7. The installation of your HI-RATE filter requires no special tools
8. Confirm that the plumbing lines from the pool are correctly identified. This will insure proper connection to markings on the filter valve. (Filter, Waste & Return)

## LOADING FILTER MEDIA

Once filter system has been positioned, the installation of filter media may be undertaken as follows:

1. Check filter size in order to determine the correct amount of media required.
2. Double check that the internal system consisting of a lateral hub and standpipe are intact inside the tank.
3. Half fill the tank with water.
4. Place a plastic bag or pvc end cap over the standpipe. This is to prevent media entering the underdrain. It is very important that the standpipe remains centred through the loading procedure to insure alignment with the valve assembly.
5. Proceed to load correct volume of dry media slowly.
6. Once media is loaded discard plastic bag or end cap and check to determine if standpipe is properly centred in tank opening.

## INSTALLATION OF VALVE

1. Following the media loading, clean any sand particles or debris from upper surface of tank opening.
2. Install six-position selector valve after placing o-ring in seat of tank. Place valve onto tank opening whilst ensuring the o-ring has remained in position.

3. Rotate valve to line up to plumbing lines. Once positioned, install the clamps and tighten with the supplied nuts and bolts. It is not necessary to over tighten.
4. **Double check that incoming pool lines are connected to appropriate valve openings as marked on valve port.**
5. Remove white plug from side of valve and install threaded pressure gauge using Teflon tape wrap. **Do not over tighten** Minimum hand tightening is adequate to provide a good seal.

## VALVE FUNCTIONS

**FILTER** The water from the pool is directed by the selector valve into the top of the filter. The water passes through a distributor, which spreads the incoming water evenly over the sand bed. Water travels down through the sand and the dirt particles are entrapped and collected. The clean water is collected by the underdrain assembly at the bottom, forced up the standpipe back to the valve where it is redirected back to the pool.

**BACKWASH** The entrapped dirt collected causes the pressure to rise, to the stage that the sand bed will require cleaning. When the filter is being backwashed the water flow inside the filter is reversed. The entrapped dirt is freed and forced up to the top of the filter where it is collected by the overdrain. The water and dirt mixture is then directed by the valve to the waste line.

**RINSE** To settle down the sand bed after backwashing and to ensure that all the dirty water in the filter has been removed, and is not returned to the pool. This cycle is to be used after each backwash. The operation is similar to the filter cycle except that the water is directed to the waste line.

**WASTE** To bypass the filter and pump out pool water, or for vacuuming heavy amounts of debris. Water is directed to waste line

**CLOSED** Used only in areas where the pool water freezes solid. THIS SETTING SHOULD NOT BE USED. Damage will occur if pump is operated whilst filter is in the closed setting.

**RECIRCULATE** From pump through valve to pool. This position bypasses the filter and is used for circulation only. Ideal for rapid distribution of pool chemicals. **THIS DOES NOT FILTER THE WATER**