



FG Bobbin Wound Fibreglass Sand Filters

INSTALLATION AND OPERATING INSTRUCTIONS



MODEL	DIAMETER	FILTER AREA	PORT SIZE	6 HR TURNOVER	8 HR TURNOVER	MEDIA REQUIRED
FG 604	600 mm (24")	0.29 Sq M	40mm(1 ½")	85,000ltrs(22,500g)	114,000ltrs(30,000g)	150 kg(330 lbs)
FG 705	700 mm (26")	0.38 Sq M	50 mm(2")	130,000ltrs(34,000g)	173,000ltrs(46,000g)	200 kg(440lbs)
FG 805	800 mm (31")	0.43 Sq M	50 mm(2")	144,000ltrs(38,000g)	192,000ltrs(51,000g)	330 kg(727lbs)
FG 905	900 mm (35")	0.65 Sq M	50 mm(2")	180,000ltrs(47,500g)	240,000ltrs(63,400g)	410 kg(903lbs)

Dimensions With Valve Installed			
Model	Height	Width	Shipping Weight
FG 604	98 cm (38.5")	60 cm (24")	22 kg (49 lbs)
FG 705	105 cm (41")	70 cm (26")	32 kg (71 lbs)
FG 805	115 cm (45.5")	80 cm (31")	38 kg (84 lbs)
FG 905	127 cm (50")	90 cm (35")	45 kg (99 lbs)

GENERAL NOTES

1. When unpacking the filter, be sure the unit is complete and no visible shipping damage has occurred.
2. Allow sufficient clearance around filter system for access and maintenance. If installed in a plant room, ensure there is sufficient access to remove filter at a later date.
3. Provide adequate ventilation for pumping equipment, installed in conjunction with filter.
4. Provide solid mounting for filter and pump. If installed outdoors, install the system on a slab or solid concrete base to avoid risk of settlement. Filter systems once located with media can exceed a weight of 500 kg. Pump, filter and other connecting equipment should be located on the same slab.
5. Installation of filters and pumps should be located as close to the pool as possible to avoid excessive piping friction loss.
6. If system is installed below pool level it is important to install isolating valves to prevent risk of flooding from back up water, from the pool or spa.
7. The proper media selection is critical to good filter performance. Ensure that the media is an approved Quartz Silica with a sizing range of 0.4 to 0.55 mm.
8. The installation of filters requires no special tools. An Allen key is provided with the filter to tighten the multiport valve clamps.
9. Confirm that plumbing lines from pool are correctly identified. This will ensure proper connection to markings on filter valve (i.e. "Pump", "Waste", and "Return").
10. The tank should be situated in such a way to allow easy access to **winter drain** on underside of filter.

LOADING FILTER MEDIA

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

1. Check filter size in order to determine necessary amount of media required.
2. Double check that the internal system consisting of a lateral hub and stand pipe are intact inside the tank.
3. Fill tank half full with water.
4. Place the disposable metal loading disc into the upper tank opening and the plastic cover over stand pipe to stabilise the filter and stand pipe. It is important that the stand pipe remains centered through the media loading procedure to ensure alignment with valve assembly opening.
5. Proceed to load correct volume of dry media slowly (if media is saturated loading can be difficult). Generally, a coffee can or funnel, can aid in the loading process.
6. Once media is loaded discard loading disc and check to determine if stand pipe is properly centred in tank opening.

INSTALLATION OF SELECTOR VALVE

1. Following the media loading, clean any media particles or debris from upper surface of tank opening.
2. Install six (6) position selector valve after placing **O-Ring** in cavity in underside of valve body. Place valve into tank opening while ensuring that the **O-Ring** has remained in position.
3. Install selector valve into top tank opening and rotate valve to best suit plumbing lines. Once positioned, fit clamp band assembly around neck of filter and valve and tighten sufficiently for good engagement. **Note: An Allen key is provided to tighten the bolts in the clamp band.**
4. Double check that incoming pool lines are connected to appropriate valve openings as marked on valve port (i.e. pump, return (pool) and waste).
5. The threaded openings on valve are 40mm or 50mm thread which all accommodate Astralpool barrel unions supplied with MPV. O-rings are supplied to fit between the multiport valve and barrel union. It is only necessary to tighten by hand. **The use of Teflon tape is not required.**
6. Remove white plug from side wall 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 OPERATION

The operation and the positions of valve settings are as follows:

Valve Settings	Direction of flow through Valve
Filter (also during vacuuming)	From pump down through valve, through sand bed, up through stand pipe to valve and back through pool return.
Back Wash	From pump, through valve, down through stand pipe, up through sand bed, and through valve to waste.
Rinse	Flow from pump, through valve, down through sand bed, up through stand pipe, through valve to waste. (Position also used for initial start-up and leveling sand bed after Back-wash)
Waste	From pump, through valve to waste. Also position for lowering water level or assist in draining pool.
Closed	From pump to valve without further circulation. Prevents any flow to filter and pool.
Recirculate	From pump through valve to pool. This position bypasses the filter and is used for circulation of pool water only.

NOTE: Always "STOP" pump when changing selector valve position.

PUMP PRIMING

1. With the pump OFF, remove the lid from the pump strainer and pour in approximately 4 litres of water.
2. Replace lid.
3. If valve has been installed on the pump suction line, close before filling strainer. Open again after lid has been securely fastened in place. Any valves on the return lines should be open. The pump should not need to be re-primed unless the pump has been drained for servicing, or winterizing (refer to complete pump operations manual provided with pump).

INITIAL START - UP

1. Make sure the correct amount of media is in the filter tank.
2. Prime pump.
3. Set valve handle in BACK WASH position.
4. Start pump and operate in BACK WASH cycle for three (3) minutes. This will purge the filter of excess fines in the media.
5. Turn pump OFF and set valve handle to RINSE. Start pump and run for one (1) minute.
6. Stop pump and set valve handle to FILTER. Restart pump. System is now operating on a normal FILTER cycle.
7. Adjust the valves in the skimmer and main drain lines (if provided) to achieve balanced flow rates.
8. When a pool is filled initially, the filter may have to be BACK WASHED once a day until the water becomes sparkling clear. From that point on, BACK WASH when pressure gauge indicates 30 to 40 kPa higher than at starting pressure.

OPERATIONAL & INSTALLATION TIPS

1. Always turn pump “OFF” before changing valve positions.
2. Never run pump dry as it depends on water for lubrication.
3. Always maintain minimum water level to ½ way up the skimmer mouth.
4. Clean pump strainer regularly.
5. Maintain a proper chemical balance in the pool.
6. Maximum operating pressure is 250kPa on FG Series
7. Ensure pressure gauge on valve is positioned so that rain water cannot collect on glass face.
8. Back wash filter regularly for 5 minutes each time to ensure sand is completely cleaned.

WARRANTY – FG SERIES

AstralPool Australia Pty Ltd (ABN 97 007 284 504) ("AstralPool") provides the following warranty in relation to its FG Bobbin Wound Sand Filters. ("Product").

The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.

WARRANTY

AstralPool warrants that, subject to the exclusions and limitations below, the Product will be free from defects in materials and workmanship during the warranty period. The warranty periods are set out below and commence 30 days after the date of purchase (to allow for installation). The warranty period may vary for different parts of the Product.

Parts	Warranty Period
<i>6 way multiport valve and internal components including 'o'rings, gaskets and gauges</i>	<i>12 months</i>
<i>Labour service</i>	<i>12 months</i>
<i>Bobbin Wound Tank</i>	<i>10 years</i>

If a defect appears in the Product before the end of the warranty period and AstralPool finds the Product to be defective in materials or workmanship, AstralPool will, in its sole discretion, either:

- (a) Replace or repair the Product or the defective part of the Product free of charge; or
- (b) Cause the Product or the defective part of the Product to be replaced or repaired by an Authorised AstralPool Service Agent free of charge.

AstralPool reserves the right to replace defective parts of the Product with parts and components of similar quality, grade and composition where an identical part or component is not available.

Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

WARRANTY CLAIMS

1. If a fault covered by warranty occurs, the customer must first contact AstralPool at the contact address listed below, or an Authorised AstralPool Service Agent.
2. Any warranty claim must be accompanied by:
 - (a) Proof of purchase;
 - (b) Full details of the alleged defect; and
 - (c) Appropriate documentation (such as historical and maintenance records).
3. The customer must make the Product available to AstralPool or its Authorised AstralPool Service Agent for inspection and testing. AstralPool or its Authorised AstralPool Service Agent will attend the premises where the Product is installed for inspection and testing. If the Product is installed:
 - (a) Outside a capital city metropolitan area; and
 - (b) Is not within a 20 km radius of an Authorised AstralPool Service Agent;Then the customer may have to pay a travel fee.
4. If such inspection and testing finds no defect in the Product, the customer must pay AstralPool's usual costs of service work and testing. If such inspection and testing finds a defect that is not covered by this warranty, the customer must pay AstralPool's usual costs of service work plus any parts and labour required to repair the Product, unless recoverable from AstralPool on the failure of any statutory guarantee under the ACL.

Exclusions

The warranty will not apply where:

- (a) The customer is in breach of the Terms and Conditions of Sale;
- (b) The Product was used for a purpose other than one it was intended for;
- (c) The Product was repaired, modified or altered by any person other than AstralPool;
- (d) The Product has not been installed, maintained and/or operated in complete compliance with the installation and operating instructions and any instructions by AstralPool;
- (e) The Product has been subject to accident, negligence, alteration, abuse or misuse.

The warranty does not extend to:

- a) Normal wear and tear;
- b) Weather and other environmental conditions including but not limited to storm, flood, and/or heat wave damage; or
- c) Service and maintenance items.

Examples of exclusions include but are not limited to:

- sand used within the filter vessel
- costs incurred when installations prohibit the easy repair and/or removal of the filter

Commercial Installations

On commercial installations, such as health clubs, motels/hotels and hydrotherapy facilities, the warranty is limited to parts and in field labour (within capital city metropolitan areas or 20 km radius of Authorised AstralPool Service Agents) for a period of 12 months from the date of purchase plus 30 days to allow for installation.

LIMITATIONS

AstralPool makes no express warranties or representations other than set out in this warranty.

The repair or replacement of the Product or part of the Product is the absolute limit of AstralPool's liability under this express warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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sales@astralpool.com.au
www.astralpool.com.au