

PROLINE
Pool Products



STANDARD SYSTEM WITH ONE-PIECE BASE OWNER'S MANUAL

PROLINE STANDARD SAND FILTER SYSTEM OWNER'S MANUAL



WARNING: A GFCI is required. Follow national and local building and safety codes.

Your Proline Standard Sand Filter System is shipped complete, with all needed components ready for assembly and installation.

System will require a 110 Volt / 20 Amp service. **DO NOT** use extension cords. Use will void warranty on pump motor. The pool equipment should be located between the pool skimmer and return line. The filtration system should not be installed less than 2 ft. and no more than 5ft. from the pool. The Proline Standard Sand Filter System needs to be on a completely flat level /

surface (patio block, cement slab, etc.). Assemble filter system only after above ground pool is installed. Fill pool with water. **IMPORTANT:** Do not raise water level above pool return line or skimmer throat until installation is complete.

Open shipping carton in an upright position, checking contents, as follows:

- | | |
|----------------------------|------------------------|
| 1. One-piece mounting base | 5. One fittings bag |
| 2. One pump | 6. One collar wrench |
| 3. One filter | 7. Trap assemblies |
| 4. Two corrugated hoses | 8. Pump to filter hose |

INSTALLATION INSTRUCTIONS



WARNING! READ ALL INSTRUCTIONS AND WARNING LABELS BEFORE OPERATING FILTER!

1. Place filter with filter base on a level, secure surface. There is no need to disassemble filter or pump assemblies. Position sand filter body securely onto filter base. Align drain with drain clearance on base. Secure sand filter body to base using bolt (#17) and washer (#16) as shown. **DO NOT** over tighten.
2. Open box and remove pump and trap. Open pump trap lid (#25) and remove 2" gasket. Position gasket into end of pump trap union nut. Hand tighten union nut onto suction side of pump (Detail 2). **DO NOT** over tighten.
3. Secure pump to pump base using pin and anchor kit (#19) (Detail 1).
4. Remove collar assembly from filter tank. **DO NOT** lose screws. **IMPORTANT:** To prevent damage to internal filter lateral components, fill filter tank full with water prior to adding sand. With sand fill guide (#10) positioned in filter tank opening, add only recommended #20 grade silica sand (see Fill Chart). Remove sand fill guide. **IMPORTANT:** Clean and remove all debris from filter tank flange after adding sand.
5. Assure that o-ring (#9) is positioned onto multi-port throat.
6. Install multi-port valve with inlet and outlet ports facing pool. Top of internal stand pipe seats directly into multi-port valve. Push multi-port valve evenly onto tank flange. **NOTE:** Make sure tank flange is clear of any sand debris.
7. Install filter tank split-nut assembly (#6 & 7) by threading collar clockwise until hand tight. Then use collar wrench (#5) to tighten further (Detail 3).
8. To use collar wrench (#5), place on collar assembly, use both hands to turn wrench $\frac{1}{2}$ to $\frac{3}{4}$ of a turn to secure multi-port valve to filter body (Detail 4).
9. Position and hand tighten pump hose assembly (#29) to top inlet port. Position gasket (#21) and hand tighten onto pump (Detail 6). **DO NOT** over tighten.
10. Apply Teflon tape (4 wraps ideal) and hand tighten $1\frac{1}{2}$ " hose fitting (#26) to bottom outlet port. **DO NOT** over tighten.
11. Place $1\frac{1}{2}$ " o-ring (#2) over $1\frac{1}{2}$ " buttress x $1\frac{1}{2}$ " MPT fitting (#31). Thread into pump port of multi-port valve. Slip $1\frac{1}{2}$ " union nut (#34) over $1\frac{1}{2}$ " female thread fitting (#33). Apply Teflon tape to threads on hose barb 90° ell (#35) and thread into female thread fitting (#33). Keeping $1\frac{1}{2}$ " Union Gasket (#32) between fittings (#31 & 33), thread $1\frac{1}{2}$ " union nut (#34) onto fitting (#31) on multi-port. Before tightening union nut, turn 90° ell (#35) in proper direction to receive hose (#29) tighten nut (#34) (Detail 8).
12. Position o-ring (#2) onto $1\frac{1}{2}$ " hose fitting (#26). Hand-tighten onto suction side of pump trap (Detail 7).
13. Apply Teflon tape (4 wraps ideal) to pressure gauge (#3). Thread into multi-port valve.
14. Remove 4 hose clamps (#27) and position over end of corrugated hoses (#28). Install corrugated hose between the $1\frac{1}{2}$ " hose fitting (#26) on multi-port valve and to pool return fitting. Tighten hose clamps. Install the other corrugated hose between the $1\frac{1}{2}$ " hose fitting (#26) on pump trap and to pool skimmer fitting. Tighten hose clamps. **NOTE:** Soften hose ends with warm water to ease installation onto fittings (if necessary).
15. Install waste adapter fitting (#1) with o-ring (#2) (Detail 5).

SYSTEM START UP

1. Fill pool until water is halfway up length of skimmer throat.
2. Make sure pump trap is full of water. Slightly loosen trap lid to relieve pressure and allow water to fill trap. Re-tighten lid.
3. Make sure multi-port valve handle is in **Filter** position.
4. Plug pump into GFCI outlet and turn pump on. Turn two-speed pumps to high.
5. Make note of start-up pressure on gauge.
6. Checks for leaks.

WINTERIZATION

1. Backwash filter system completely. See Cleaning Instructions.
2. Run a filter cleaning chemical through filter system as per cleaner instructions.
3. Turn pump off. Disconnect hoses from skimmer and return fitting.
4. Remove drain plug cap from bottom of filter tank. **DO NOT** remove hex drain assembly (#14). To remove item self-threading drain screen (#14), remove drain cap (#15) and use as tool to remove.
5. Unscrew drain plugs located at bottom of pump trap and front of pump housing. Let water drain completely.
6. Disconnect filter to pump connection. Loosen union connection on discharge of pump and remove from pump. **DO NOT** lose 2" union gasket. Lift and remove pump and pump base from filter base. Store inside.

CLEANING INSTRUCTIONS

NOTE: When pressure gauge reading is 5 PSI or higher than original starting pressure, the filter needs to be cleaned. The Proline Standard Sand Filter System features our exclusive 7-Position Multi-Port Valve, which ensures safe and simple filter maintenance.



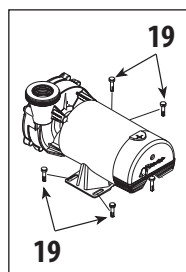
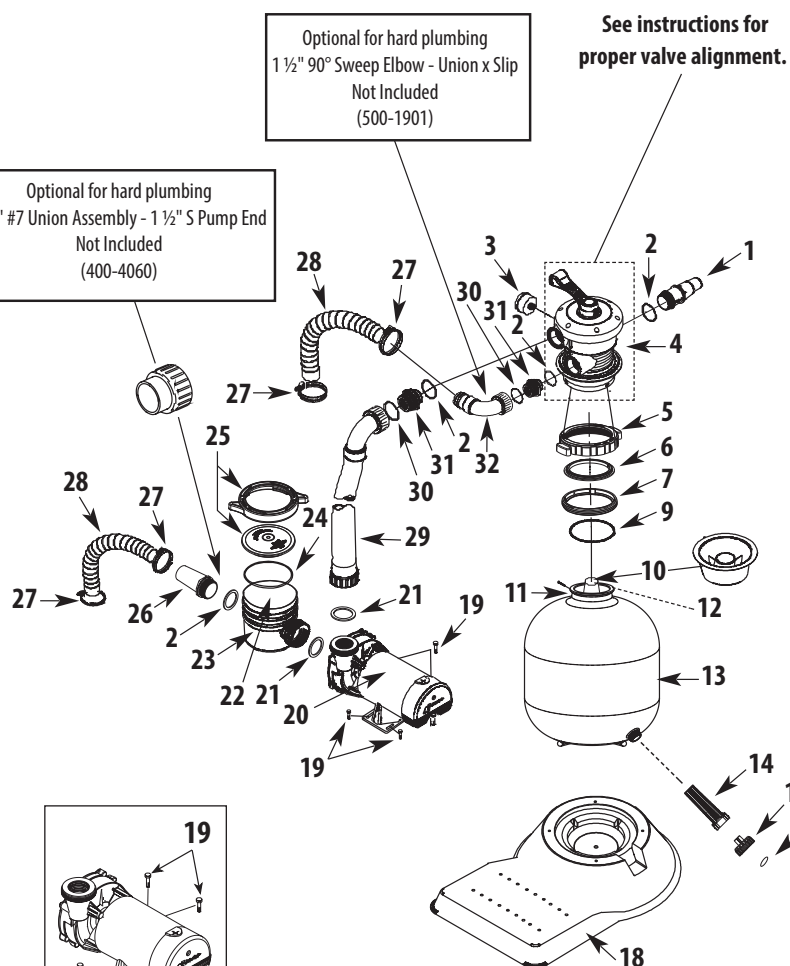
Pressurized vessel. Never attempt to loosen or open collar assembly (#6 & 7) while system is running. It could cause severe injury or harm to user. **NEVER CHANGE VALVE POSITION WITH PUMP RUNNING!**

1. Turn off pump.
2. Attach backwash hose (optional) to waste port adapter.
3. Rotate multi-port valve handle to **Backwash** position. Turn pump on and run for 90 second intervals or until discharge water is clear. Turn pump off.
4. Rotate multi-port valve handle to **Rinse** position. Turn pump on for 30 seconds.
5. Repeat steps 3 & 4 until all discharge water is clear while pump is turned on.
6. Rotate multi-port valve handle to **Filter** position. Turn pump on. Valve is now in normal operating position.

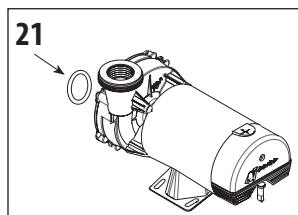
PROLINE STANDARD SAND FILTER SYSTEM PARTS LIST

Item	Part No.	Description
1	425-1928	Waste Adapter Fitting
2	805-0224	1 1/2" O-Ring
3	830-3000	Pressure Gauge
4	WVS003N	Multi-Port Valve Assembly
5	505-1970	Collar Wrench
6	718-1960	Split-Nut - Sand Filter
7	819-0015	1/4" Screw - 20 PPH x 1 1/2"
8	820-0013	Serrated Hex Nut - 1/4" - 20
9	805-0435	O-Ring
10	502-2010	Sand Fill Guide
11	505-1960	Threaded Sleeve for Split Nut
12	505-2040	16" Lateral and Manifold Assembly
	505-2050	19" Lateral and Manifold Assembly
	505-2060	22" Lateral and Manifold Assembly
	505-2080	26" Lateral and Manifold Assembly
13	515-1601	16" Sand Filter Body
	515-1901	19" Sand Filter Body
	515-2001	22" Sand Filter Body
	515-2061	26" Sand Filter Body
14	602-5311	Self-Threading Drain Screen
15	602-5301	Drain Cap
16	820-0017	3/8" Flat Washer
17	819-0020	3/8" Bolt - 16" Sand Filter
	819-0019	3/8" Bolt - 19" Sand Filter
	819-0016	3/8" Bolt - 22" / 26" Sand Filter
18	672-7241	One-Piece Base
19	429-7300	Pin & Anchor Kit (4 in kit)
20	340-9020	1 HP - 1-Speed - Pump
	340-9000	1 1/2 HP - 1-Speed - Pump
	340-9200	1 1/2 HP - 2-Speed - Pump
	340-9250	2 HP - 2-Speed - Pump
21	711-4010	2" Union Gasket
22	319-3230	Basket Assembly (not shown)
23	319-2170	6" Pump Trap Body
24	805-0436	Trap Lid O-Ring
25	319-4100	2-Piece 6" Pump Trap Lid Assembly
26	417-6140	1 1/2" Hose Fitting
27	872-0010	Hose Clamp - Stainless Steel
28	872-9002	Corrugated Hose - Black
29	550-1802	16" Pump to Filter Hose
	550-1812	19" Pump to Filter Hose
	550-1822	22" Pump to Filter Hose
	550-1832	26" Pump to Filter Hose
30	400-5421B	2" Union Split Nut
31	417-4161	1 1/2" Buttrass x 1 1/2" MPT
32	711-4000	1 1/2" Union Gasket
33	417-4070	1 1/2" FPT Fitting
34	415-4001	1 1/2" Union Nut
35	411-6520	1 1/2" MPT x Hose 90° Barbed Ell

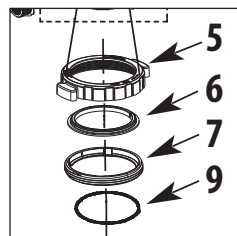
810-0082-N1 Instruction Sheet



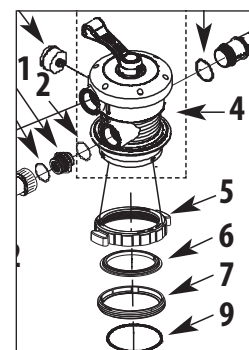
DETAIL 1



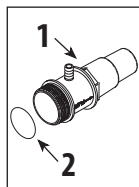
DETAIL 2



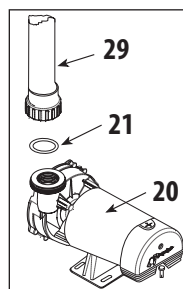
DETAIL 3



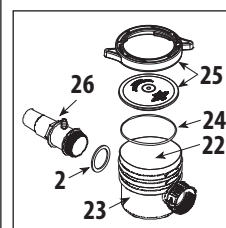
DETAIL 4



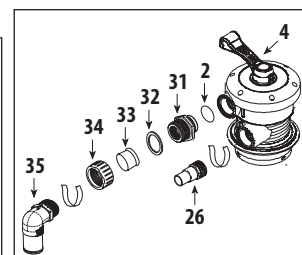
DETAIL 5



DETAIL 6



DETAIL 7



DETAIL 8

TROUBLESHOOTING

MOTOR DOES NOT START:	Make sure motor is plugged in. Circuit breaker in OFF position. Thermal Overload in tripped position. Wiring installation incorrect. Incorrect line voltage. Defective wiring.	EXCESSIVE PUMP NOISE:	Worn bearings. Suction line clogged. Pump incorrectly mounted. Hose fitting partially closed. Slide valve partially closed. Clogged trap basket.
THERMAL OVERLOAD TRIPS:	Low voltage. Wiring installation incorrect. Dual voltage pumps mis-wired. Inadequate ventilation.	INADEQUATE FILTERING:	Sand level too low. Inadequately cleaned system. Excessive dirt load. Chemical imbalance. Inadequate system pressure.
NO WATER FLOW:	Obstruction of suction or return line. Clogged impeller. Suction system air leaks. Slide valve closed. Clogged hose fitting. Clogged basket. Dirty sand.		

SAND FILL CHART:
Model FS016 - 50 lbs.
Model FS019 - 100 lbs.
Model FS022 - 150 lbs.
Model FS026 - 200 lbs.

CHLORINATOR & BROMINATOR USE WARNINGS

READ AND FOLLOW ALL INSTRUCTIONS! SAVE THESE INSTRUCTIONS!

WARNING! To reduce the risk of injury and product damage:



Feeders are designed to use only Chlorine (Trichloro-s-triazinetriene) or Bromine (Bromochloro -5, 5 Dimethylhydantoin) tablets, slow dissolving type. **UNDER NO CIRCUMSTANCES** MIX Trichlor OR Bromine with Calcium Hypochlorite, with other forms of concentrated chlorine, or with other chemicals **FIRE AND/OR EXPLOSION MAY RESULT.** **NEVER** use oils or grease to lubricate O-ring. Oil in contact with Trichlor OR Bromine may result in **FIRE.** Caution should be used when removing feeder cap. Do not inhale fumes.

If shock treatments or Algaecides containing chemicals other than sanitizer tablets in feeder must be used, then turn off feeder OR remove tablets until the shock or algae treatment is complete and all granules have dissolved. Failure to do so may result in granules mixing in feeder causing **FIRE AND/OR EXPLOSION.** The shock or algae treatment dissolved in water is safe with tablets.

ALWAYS WEAR PROTECTION for eyes, skin and clothing when working with chemicals. Do not smoke and avoid sparks and open flames. Turn off pump and control valve before opening chlorinator. Use of bulk chemicals may result in damage to pool. Chemicals will dissolve very quickly and may cause bleaching to liner due to over-chlorinating, possibly causing unsafe pool conditions.

Settings in excess of the recommended control setting levels for the chlorinator can result in excess chlorine being discharged in your pool. This can result in bleaching or discoloration of areas around the pool inlet or in some cases bleaching of the entire pool liner or paint (**CHECK CHEMICAL RESIDUALS REGULARLY**).

WARRANTY

For product registration visit: www.waterwayplastics.com.

For Warranty questions or claims please contact point of purchase.



PROLINE
Pool Products

1 1/2" MULTI-PORT 7-FUNCTION SAND FILTER VALVE

VALVE MULTI-PORT 1 1/2" À 7 FONCTIONS POUR FILTRE À SABLE

MULTI-VALVULA DE 7 FUNCIONES DE 1 1/2" PARA FILTRO DE ARENA

VALVE FUNCTIONS • FONCTIONS DE LA VALVE • FUNCIONES DE VALVULA

Freeze Protection: All ports are self-draining to prevent freeze damage.
WARNING: Pump should not be running while valve is in this position.

Tous les ports sont fermés. La pompe peut être entretenue dans ce mode.
AVERTISSEMENT: La pompe ne devrait pas fonctionner lorsque la valve est dans cette position.

Protección de congelación: Todos los puertos se desaguan para prevenir daño de congelación.
ADVERTENCIA: La bomba no debe funcionar mientras que la válvula está en esta posición.

All ports are closed. Pump can be serviced in this mode.
WARNING: Pump should not be running while valve is in this position.

Tous les ports sont fermés. La pompe peut être entretenue dans ce mode.
AVERTISSEMENT: La pompe ne devrait pas fonctionner lorsque la valve est dans cette position.

Todos los puertos son cerrados. Puede darle mantenimiento a la bomba en esta estación.
ADVERTENCIA: La bomba no debe funcionar mientras que la válvula está en esta posición.

Bypass to Waste: Vacuum dirty water from pool. Water flows through multi-port valves, bypassing filter to waste port.

Vidanger : L'eau passe par la valve multi-port, ensuite est dévié pour être vidangée.

Puente al agua sucia de Basura: Aspire agua sucia de la piscina. El agua atraviesa las válvulas del multi-puerto, pasando el filtro a la puerta de basura.

Filtration Cycle: Water flows through sand bed and discharges to filter outlet. This is the normal operating position.

Cycle de Filtration : L'eau traverse le lit de sable pour ensuite d'échapper dans la piscine. C'est la position normale de fonctionnement.

Ciclo de Filtración: El agua atraviesa la arena y descarga en la puerta del filtro. Ésta es la posición de funcionamiento normal.

Rinses excess sand that is trapped in the filter laterals, septum and diffuser. Water flows through filter inlet and discharges through waste port.

Rince le sable excessif qui est emprisonné dans les parties latérales, le septum et le diffuseur de filtre. L'eau traverse l'admission et les décharges de filtre par le port de rebut.

Enjuaga en exceso la arena que esta atrapada en los laterales y el difusor del filtro. El agua atraviesa en la entrada del filtro y descarga a través de la puerta de basura.

Reverses water flow of filter and discharges out waste port: Water flows up from tank laterals, stirs debris on sand bed surface, then flushes debris to waste port.

Les inverses arrosent l'écoulement du filtre et les décharges hors de la perte port : L'eau coule du fond vers la surface du réservoir, remue les débris sur la surface, rince et vidange ceux-ci.

Reversa la corriente del agua del filtro y descarga en la puerta de basura: Agua fluye para arriba de laterales del tanque, revuelven desechos en superficie en arena, después salen los desechos a la puerta de basura.

Recirculates pool water while by passing filter. Water flows into filter inlet and discharges through filter outlet.

Recycle l'eau de la piscine sans passer par le filtre.

Recircula el agua de la piscina mientras que pasa el filtro. El agua fluye en la entrada del filtro y descarga en la salida del filtro.



PROLINE
 Pool Products

REPLACING A MULTI-PORT VALVE ON A SAND FILTER

FOR PROLINE OVAL FILTERS

1) Remove connections and unthread the old multi-port body from the filter body.

2) Using a Phillips screwdriver - remove the screw from the threaded sleeve on the filter body

3) Replace the threaded sleeve with:

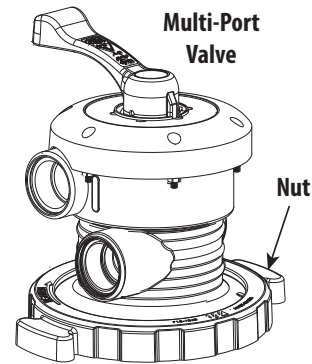
New threaded sleeve R7 version on all size models manufactured before 2024

New threaded sleeve R7 version on all 16" and 19" models manufactured before 2025

New threaded sleeve R5 version on all 22" and 26" models manufactured 2024 to present

New threaded sleeve R5 version on all 16" and 19" models manufactured in 2025

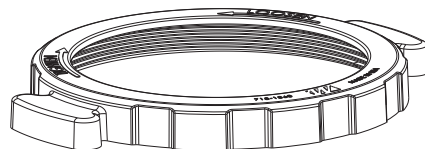
4) Install the new multi-port valve



Threaded Sleeve



Nut



WARRANTY

For product registration visit: www.waterwayplastics.com.
For Warranty questions or claims please contact point of purchase.

REPLACEMENT D'UNE VALVE MULTI-PORT SUR UN FILTRE À SABLE

POUR FILTRES OVALESPROLINE

1) Retirez les raccords et dévissez l'ancien corps multivoies du corps du filtre.

2) À l'aide d'un tournevis cruciforme, retirez la vis du manchon fileté du corps du filtre.

3) Remplacez le manchon fileté par :

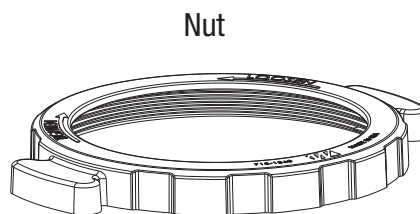
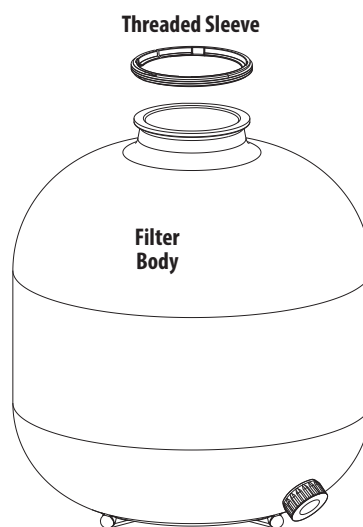
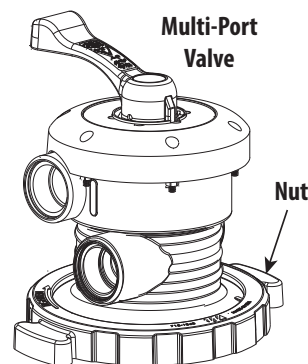
Nouveau manchon fileté version R7 sur tous les modèles fabriqués avant 2024

Nouveau manchon fileté version R7 sur tous les modèles 16" et 19" fabriqués avant 2025

Nouveau manchon fileté version R5 sur tous les modèles 22" et 26" fabriqués de 2024 à aujourd'hui

Nouveau manchon fileté version R5 sur tous les modèles 16" et 19" fabriqués en 2025

4) Installez la nouvelle vanne multivoies.



GARANTIE

Pour l'enregistrement du produit, visitez : www.waterwayplastics.com.

Pour des questions de garantie ou réclamations, veuillez communiquer avec point de vente.

REEMPLAZO DE UNA VÁLVULA MULTIPUERTO EN UN FILTRO DE ARENA

PARA FILTROS OVALADOS PROLINE

1) Retire las conexiones y desenrosque el cuerpo multipuerto antiguo del cuerpo del filtro.

2) Con un destornillador Phillips, retire el tornillo del manguito roscado del cuerpo del filtro.

3) Reemplace el manguito roscado por:

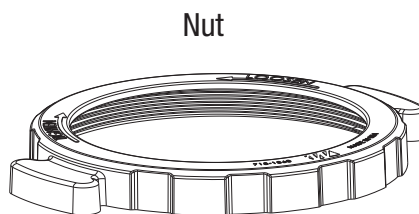
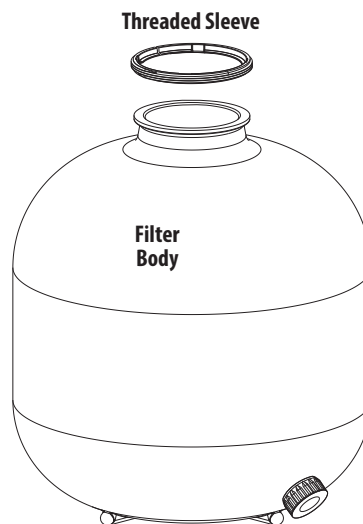
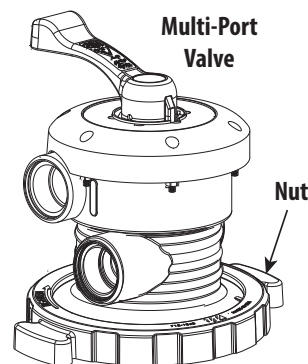
Nuevo manguito roscado versión R7 en todos los modelos de todos los tamaños fabricados antes de 2024.

Nuevo manguito roscado versión R7 en todos los modelos de 16" y 19" fabricados antes de 2025.

Nuevo manguito roscado versión R5 en todos los modelos de 22" y 26" fabricados desde 2024.

Nuevo manguito roscado versión R5 en todos los modelos de 16" y 19" fabricados en 2025.

4) Instale la nueva válvula multipuerto.

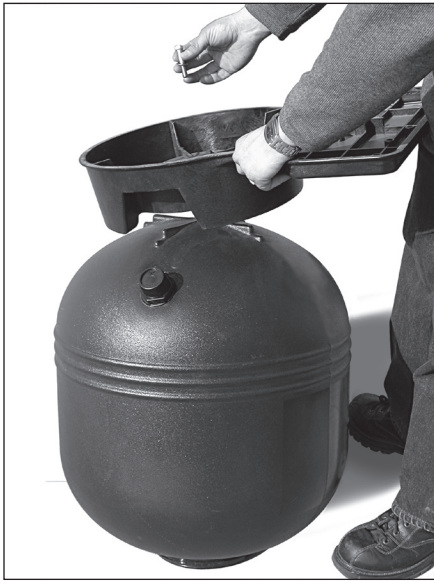


GARANTÍA

Para registrar el producto, visite: www.waterwayplastics.com.

Garantía de consultas o reclamaciones por favor comunicarse al lugar de compra.

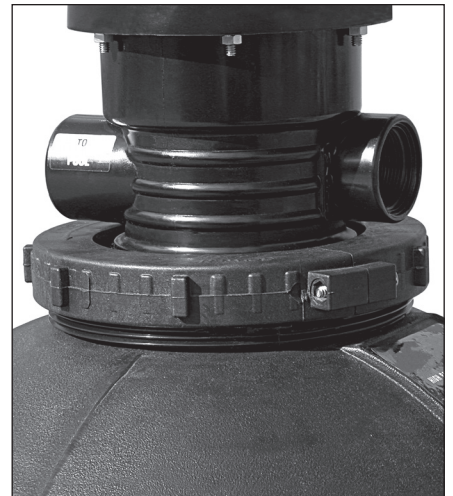
ASSEMBLY INSTRUCTIONS FOR OVAL SAND FILTER SYSTEMS WITH ONE-PIECE BASE



1. Attach filter base to filter body by turning body upside down. Align drain on filter with clearance slot on base. Slip washer over bolt and thread bolt into filter body. **DO NOT OVER TIGHTEN.**



2. Turn filter over. Place next to pool between skimmer and return opening on pool. Place sand filter guide in filter over stand pipe. **Add approximately 6 inches of water before adding sand.** Add required #20 grade silica sand (see sand chart on back page). Remove sand fill guide and save.



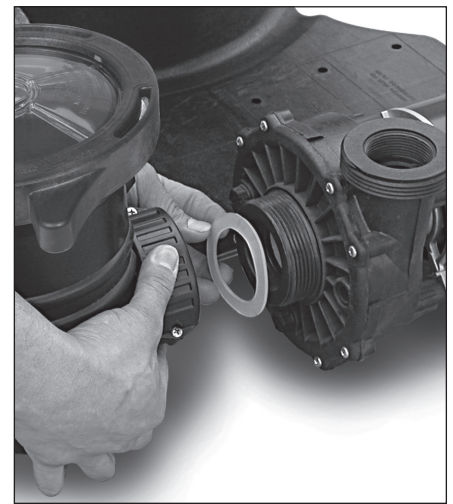
3. Place valve over threads on sand filter. Make sure dual outlets face pool and that top of filter is clear of any debris.



4. Tighten nut using wrench. Use one hand to turn wrench and the other hand to hold wrench in place.



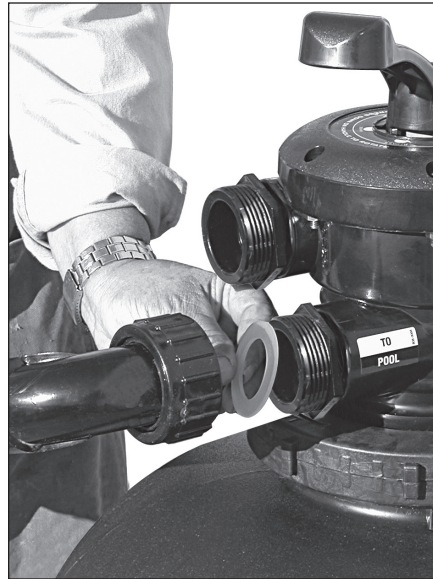
5. Split-nut is fully installed when threads on body are not exposed. Retighten bolt on split-nut after installation to ensure valve is not loose.



6. Install trap base to pump by removing gasket from inside trap. Remove clear trap lid, and place gasket in trap nut. Thread onto pump. **DO NOT OVER TIGHTEN.** Remember to replace trap lid.



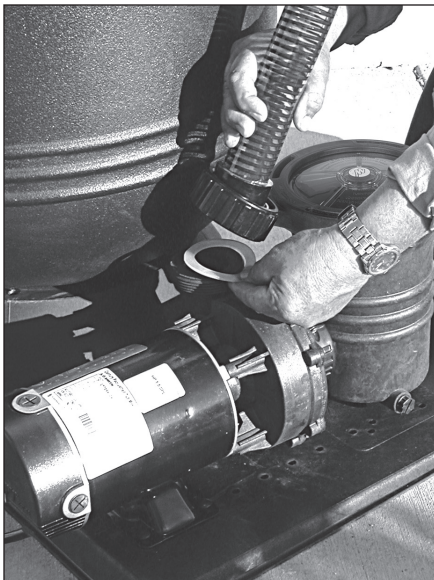
7. Take O-ring and put over small side threads on 1 1/2" buttress x MPT fitting. Thread into pool outlet on valve. Repeat for pump outlet on valve.



8. Put 1 1/2" gasket into return sweep assembly and install onto pool outlet port.
DO NOT OVER TIGHTEN.



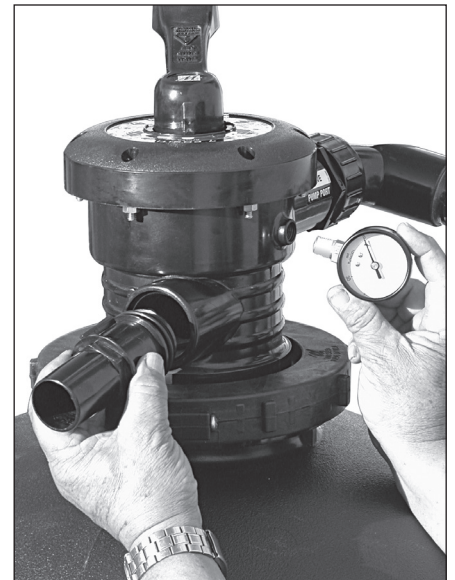
9. Take pump to filter hose assembly and put 1 1/2" gasket into nut on smaller end with sweep 90°. Thread onto pump outlet port.
DO NOT OVER TIGHTEN.



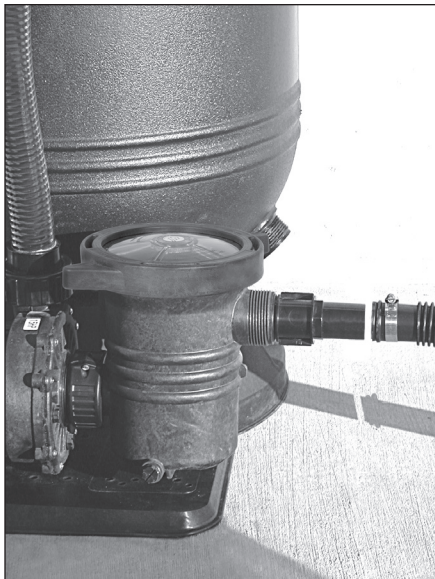
10. Put 2" gasket into nut on hose labeled "TO VALVE PUMP PORT."
DO NOT OVER TIGHTEN.



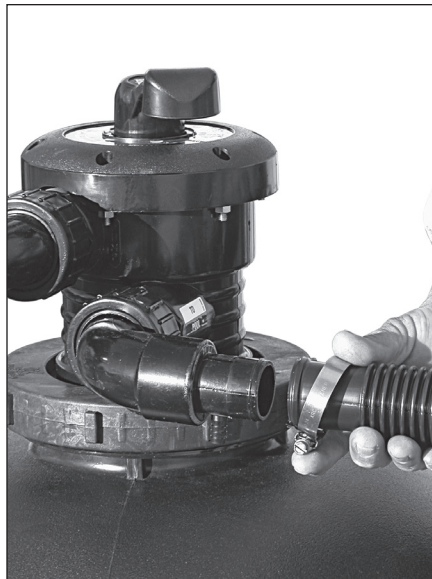
11. Put O-ring over threads on 1 1/2" smooth straight hose adapter and thread into front of pump basket.



12. Apply Teflon tape to pressure gauge threads (4 wraps is ideal) and thread into valve. Install waste adapter by pushing O-ring over threads of adapter and threading into waste port.



13. Install 6 ft. corrugated hoses by loosening hose clamps and sliding over hose ends. Install hose onto pump basket hose fitting by pushing on and tightening clamp. Install other end of hose onto skimmer and tighten clamp.



14. Install hose onto smooth hose adapter in valve by loosening hose clamp and sliding over adapter end. Install other end onto return fitting of pool and tighten clamps.



15. To remove drain screen, remove drain screen cap/wrench and insert the wrench end into drain screen opening and unscrew. When reinserting drain screen **DO NOT OVER TIGHTEN** (be sure O-ring is inside of drain cap). Screw on drain screen cap/wrench. **DO NOT OVER TIGHTEN.**

NOTE: After starting system, if there is leaking at connections including the valve, shut off system and retighten slightly. Then restart the system. Repeat if necessary. If leaking does not stop, it may be necessary to remove fittings or valve to check for missing O-rings and/or gaskets. **When reapplying Teflon tape, do not reuse old tape. Remove old tape before adding new tape.**

REQUIRED AMOUNT OF #20 GRADE SILICA SAND

16" Filter	100 lbs.
19" Filter	150 lbs.
22" Filter	250 lbs.
26" Filter	300 lbs.

WARRANTY

For product registration visit: www.waterwayplastics.com.
For Warranty questions or claims please contact point of purchase.



PROLINE
Pool Products