



1480 Potthoff, Cadillac, MI 49601 Phone 231-775-5588 - Fax 800-346-2580

FLUSH JOINT THREADED RISER PIPE AND SCREEN



Big Foot manufactures Flush Joint threaded pipe to meet ASTM F480-88A specifications and is available on Schedule 40 PVC and Schedule 80 PVC.

Schedule 40 PVC pipe used by Big Foot Manufacturing is manufactured to meet specifications ASTM D-2665 and D-1785. Type 1, Grade 1 PVC material specified by ASTM D-1784 is used in the manufacturing of the PVC pipe.

Schedule 80 PVC pipe used by Big Foot Manufacturing is manufactured to meet specifications ASTM D-1784 for Type 1, Grade 1 PVC materials.

One Buna "O" Ring is provided for each pin thread on pipe 2" and larger. O-Rings for all other sizes and schedules are sold separately. Please specify if O-Rings are required when placing order.

Big Foot Manufacturing has a molded 2" Point with an ASTM pin thread available with a Buna "O" Ring included. We also have Flush Joint Plugs and Caps available for our Flush Joint Riser and Flush Joint Screen.

Flush Joint Screens are available as described in our section on well screens. All Flush Joint ASTM Threads on screens meet the same criteria as our riser.

40G & 80G FILTERS



BIG FOOT MANUFACTURING CO. 1480 Potthoff, Cadillac, MI 49601 Phone 231-775-5588 - Fax 800-346-2580 Big Foot Filters are designed to be used as an initial filter on the suction side of a pump using surface water sources. The 4oG and 8oG, rated at 4o gallons per minute and 8o gallons per minute respectively, are made of heavyduty PVC plastic. Extra large intake areas will require little or no service during the pumping season and will give many years of trouble-free service, even under the most severe conditions.

The 4oG uses the 6" diameter screen on the outside and 2" diameter inside screen with 1/8" slots with an open area of 20 square inches. The 8oG Filter's 12" diameter outside screen has an intake area of approximately 80 square inches and the 6" diameter inside screen has an intake area of approximately 33 square inches.

The 4oG and 8oG can be ordered equipped with a check valve and can be ready to connect to your pump. The area between the two screens can be ordered filled with bulk-filter matting which has been produced from the finest raw materials and certified fish-safe by an independent bio-assay lab using standard EPA test protocols. The filtering media will provide an effective means of keeping algae and other forms of marine life out of the pumping system. In addition, the extra inlet area reduces entrance velocities to the point that foreign matter is not picked up by the suction. Also, the large filtering area can retain a substantial amount of foreign matter before it needs service. For applications requiring greater capacity these units can be installed on a manifold. Contact Big Foot Manufacturing for recommendations on large capacity systems.

SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

The Big Foot Filter is designed to be used as an initial filter on the suction side of a pump using surface water sources. The Filter is a very effective means of keeping algae, seaweed and marine life out of the pumping system.

Please read the following specifications and installation instructions carefully before putting in service:

SPECIFICATIONS

40G FILTER

- Rated at 40 gallons per minute in clear water.
- Made of PVC and plastic.
- 6" outside screen and 2" inside screen with 2" suction connection.
- 6" screen has approximately 680 "holes with total open area of 33.3 sq. inches.
- 2" screen has 1/8" slots with total open area of 20 sq. inches.
- 2" check valve optional.
- Bulk-filter matting optional.

80G FILTER

- Rated at 80 gallons per minute in clear water.
- Made of PVC, and plastic.
- 12" outside screen and 6" inside screen with 2" suction connection.
- 12" screen has approximately 1600 1/4" holes with total open area of approximately 80 sq. inches.
- 6" screen has approximately 680 1/4" holes with total open area of 33.3 sq. inches.
- 2" check valve optional.
- Bulk-filter matting optional.

INSTALLATION INSTRUCTIONS

- 1. Attach your choice of discharge fittings to the 2" suction. Use care not to overtighten or cross thread in this connection.
- 2. Connect to your pump by whatever means best suits your installation.
- 3. Start pump and run to open discharge for at least fifteen minutes before connection to your watering system. This is important in order to be sure all foreign matter is out of the suction side of the pump.

RECOMMENDATIONS

- 1. Avoid putting excess stress on the 2" suction connection.
- 2. The Filter can be installed vertically or horizontally.
- 3. If pea gravel is used as the filtering media, be sure it is larger than 3/8" in diameter and irregularly shaped. Round pea gravel tends to fill the inlet holes and reduces capacity. Reassemble the top being careful not to overtighten the stainless-steel tie rods.
- 4. For best results, avoid setting unit directly on the bottom in muddy, weedy or sandy conditions. It is recommended to place on a cement block or similar object when installing. Big Foot Manufacturing can provide a filter stand for the 4oG if requested.

DOWN THE HOLE PRODUCTS





TRI-SEAL K-PACKERS

Tri-seal K-Packers are developed to provide a seal between the outside diameter of the screen and the inside diameter of the casing. Manufactured by molding rubber to the outside diameter of a threaded steel coupling.

TRI-SEAL K-PACKER BLANKS

Tri-seal K-Packer Blanks were developed for the same purpose as the Tri-Seal K-Packer. They are designed for use on PVC pipe by eliminating the steel coupling. They are intended to be glued to the pipe and contained on each end by a PVC ring glued to the pipe. PVC Rings sold separately.

DRAW DOWN SEAL

Big Foot Draw Down Seals are made using a basic Tri-Seal K-Packer provided with holes for pump wires and wire sealing plugs. Installed just above the pump, they prevent contamination and air from entering the pump and riser. Draw Down Seals can be installed with the head of the plugs down and used to seal in flowing wells.

TRI-SEAL K-PACKER WELD-ON

Tri-Seal Weld-Ons were developed for the same purpose as the Tri-Seal K-Packer. They are manufactured by molding rubber to the outside of steel pipe that can then be welded onto a stainless-steel screen.

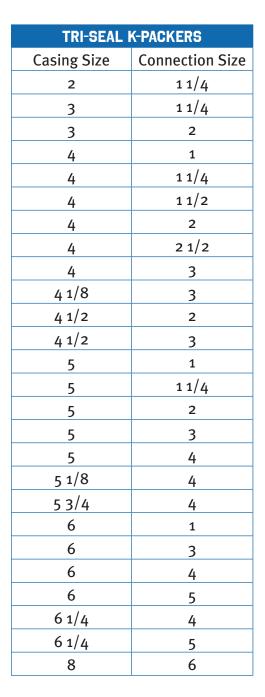
SHALE TRAP/FORMATION PACKER

Shale Traps are a bell-shaped piece of rubber with a groove for a stainless-steel clamp around the lower portion to stabilize it on the casing. The outer edge of the bell seals against the drill hole forming a collection point for the material used to pack off the top of the well casing. We offer stainless-steel clamps for use on our Shale Traps to hold them on the casing. We use only an all stainless-steel clamp with an all stainless-steel screw to ensure that rust will not allow the clamp to weaken or break causing the formation to fall.

WELL PACKER

Big Foot's Well Packer is made of rubber that is molded onto 4" SCH40 PVC 24" in length with 6 sealing flanges. It is flexible and fits into 6" or 6-1/4" casing.

DOWN THE HOLE PRODUCTS



DRAW DOWN SEALS						
Casing Size	Drop Pipe Size					
4	1					
4	1 1/4					
4	1 1/2					
5	1					
5	1 1/4					
5	2					
6	1					
6	3					

SHALE TRAPS / FORMATION PACKERS					
Hole Size	Casing Size				
5	2				
6	2				
6	3				
7	4				
7	4 1/2				
8	4				
8	4 1/2				
8	5				
9	4 1/2				
9	5				
10	6				
10	6.9				

TRI-SEAL K-PACKER WELD-ON'S						
Casing Size	Connection Size	Length				
6	4	8				
6	4	12				
6	5	8				
6	5	12				
8	6	8				
8	6	12				

COUPLINGS, SPIGOTS & ADAPTERS

OUR CUSTOM
MADE COUPLINGS,
SPIGOTS AND
ADAPTERS MEET
ASTM-F-480
STANDARDS FOR
TAPERED SOCKETS
OR BELL END PIPE.
THESE PRODUCTS
COME IN MANY
SHAPES AND SIZES TO MEET MANY
NEEDS







4" Bell x 4" Bell coupling	CPLG44
4" Bell x 4" Bell coupling turned	CPLG44TURN
4 1/2" Bell x 4" Bell coupling SCH 40	CPLG454
4 1/2" Bell x 4 1/2" Bell coupling SCH 40	CPLG4545
4 1/2" Bell x 4 1/2" Bell coupling SDR17	CPLG4545SDR17
5" Bell x 4" Bell reducing coupling	CPLG54
5" Bell x 4" Male Thread coupling	CPLG54MT
5" Bell x 4" Spigot coupling	CPLG54SPG
5" Bell x 4" Spigot Male Thread coupling extended	CPLG54MTEXT
5" Bell x 5" Bell coupling SCH 40	CPLG55
5" Bell x 5" Bell coupling SDR 17	CPLG55SDR17
5" Bell x 5" Male Thread coupling	CPLG55MT
6" Bell x 5" Bell coupling	CPLG65
6" Bell x 5" Spigot coupling	CPLG65SPG
6" Bell x 6" Bell coupling	CPLG66
6 1/4" Bell x 5" Male Thread coupling	CPLG6255MT
6 1/4" Bell x 5" Bell coupling	CPLG6256
6 1/4" Bell x 5" Male Thread	CPLG6256MT
6 1/4" Bell x 5" Bell coupling SDR 21	CPLG625625
6 1/4" Bell x 5" Bell coupling DR27	CPLG625625DR27

SLOTTED CONTROL SCREENS



Slotted screens can be fabricated from the lightest class PVC to the heaviest.

We can slot pipe from 1/2" diameter through 18" diameter and up to 20' lengths. Slot sizes .008 and wider are available with a variety of configurations possible, depending on slot size, spacing and number of rows of slots. A row consists of slots, normally spaced at 1/8" intervals, cut perpendicular to the axis of the pipe and running from one end of the pipe to the other. Most pipe can take up to two rows more than the stated diameter of the pipe without significant structural weakening.

	SCHEDULE 40		SCHEDULE 80		SDR17		SDR21	
SIZE	O.D.	WALL THICKNESS	O.D.	WALL THICKNESS	O.D.	WALL THICKNESS	O.D.	WALL THICKNESS
1/2"	-	-	0.840	0.147	-	-	-	-
3/4"	-	-	1.050	0.154	-	-	-	-
1"	1.315	0.133	1.315	0.179	-	-	-	-
11/4"	1.66	0.140	1.660	0.191	-	-	-	-
11/2"	1.9	0.145	1.900	0.200	-	-	-	-
2"	2.375	0.154	2.375	0.218	-	-	-	-
3"	3.5	0.216	3.500	0.300	-	-	-	-
4"	4.5	0.237	4.500	0.337	-	-	4.500	0.214
5"	-	-	-	-	5.563	0.327	5.563	0.265
6"	6.625	0.280	6.625	0.432	-	-	-	-
8"	8.625	0.322	8.625	0.500	-	-	-	-
10"	10.75	0.365	-	-	-	-	-	-
12"	12.75	0.406	-	-	-	-	12.750	0.606

SLOT SIZE AND OPEN AREA OF SCHEDULE 40 PVC SCREENS

INTAKE AREA PER FOOT IS .125 SPACING

SIZE	NUMBER OF ROWS	.008	.010	.012	.015	.018
1"	3	2.20	2.64	3.13	3.92	4.48
11/4"	3	2.20	2.64	3.13	3.92	4.48
11/2"	4	2.90	3.52	4.18	5.22	5.98
2"	4	2.90	3.52	4.18	5.22	5.98
3"	6	4.30	5.30	6.26	7.83	8.96
4"	6	4.30	5.30	6.26	7.83	8.96
5"	8	-	7.00	8.35	10.44	11.95
6"	8	-	-	-	10.44	11.95
8"	8	-	-	-	10.44	11.95
10"	10	-	-	-	-	-
12"	12	-	-	-	-	-

SIZE	NUMBER OF ROWS	.020	.025	.030	.040	.060	0.125
1"	3	4.92	6.00	6.55	8.64	-	-
11/4"	3	4.92	6.00	6.55	8.64	-	-
11/2"	4	6.56	8.00	8.74	11.52	15.36	-
2"	4	6.56	8.00	8.74	11.52	15.36	24.00
3"	6	9.84	12.00	13.10	17.28	23.04	36.00
4"	6	9.84	12.00	13.10	17.28	23.04	36.00
5"	8	13.12	16.00	17.47	23.04	30.72	48.00
6"	8	13.12	16.00	17.47	23.04	30.72	48.00
8"	8	13.12	16.00	17.47	23.04	30.72	48.00
10"	10	16.60	20.00	21.84	28.80	38.40	60.00
12"	12	18.33	22.48	26.50	34.10	47.88	83.10

^{1&}quot; and 1 1/4" pipe based on 3/4" length of slot opening in I.D. of pipe. All other pipe sizes based on approximately 1" length of slot opening in I.D. of pipe.

WRAPPED ON PLASTIC (WOP) WELL SCREEN



Wire wrapped on plastic pipe (W.O.P.) screens can be manufactured using Schedule 40 PVC or Schedule 80 PVC. These are manufactured by drilling holes in the circumference of the pipe and then wrapping and solvent welding tapered PVC wire around the outside diameter of the pipe. Slot widths are carefully controlled during manufacturing and slot sizes from .007" and up are available. W.O.P. Screens are available in various lengths with a maximum of 10 feet overall length and are available with standard Male National Pipe Thread or ASTM Male and Female Flush Joint Threads and a variety of end points or plugs. Plain ends are standard.

	SCHED	SCHEDULE 40 SCHEDULE 80		0 SDR 17		SDR 21			
SIZE	O.D.	WALL THICKNESS	O.D.	WALL THICKNESS	O.D.	WALL THICKNESS	O.D.	WALL THICKNESS	RING O.D.
1 1/4"	1.660	0.140	1.660	0.191	-	-	-	-	1.89
11/2"	1.900	0.145	1.900	0.200	-	-	-	-	-
2"	2.375	0.154	2.375	0.218	-	-	-	-	2.74
3"	3.500	0.216	3.500	0.300	-	-	-	-	3.88
4"	4.500	0.237	4.500	0.337	-	-	4.500	0.214	4.87
5"	-	-	-	-	5.563	0.327	5.563	0.265	5.98
6"	6.625	0.280	6.625	0.432	-	-	-	-	7.16
8"	8.625	0.322	8.625	0.500	-	-	-	-	9.3
10"	10.750	0.365	-	-	-	-	-	-	11.52
12"	12.750	0.406	-	-	-	-	12.750	0.606	13.53

SLOT SIZE AND OPEN AREA OF WOP SCREENS

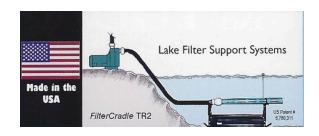
INTAKE AREA PER FOOT IS
.125 SPACING 1" AND 1 1/4"
PIPE BASED ON 3/4" LENGTH
OF SLOT OPENING IN I.D. OF
PIPE. ALL OTHER PIPE SIZES
BASED ON APPROXIMATELY 1"
LENGTH OF SLOT OPENING IN
I.D. OF PIPE.

SIZE	.008	.010	.012	.015	.018
1 1/4"	3.76	4.63	5.48	6.78	7.87
11/2"	4.31	5.30	6.27	7.67	9.01
2"	5.38	6.63	7.84	9.59	11.26
3"	7.93	9.77	11.55	14.13	16.60
4"	10.20	12.56	14.85	18.17	21.34
5"	12.61	15.53	18.36	22.46	26.38
6"	15.02	18.49	21.87	26.75	31.42
8"	19.55	24.07	28.47	34.82	40.91
10"	24.36	30.00	35.48	43.40	50.99
12"	28.90	35.59	42.08	51.47	60.47

SIZE	.020	.025	.030	.040	.060
1 1/4"	8.63	10.42	12.11	15.16	20.29
11/2"	9.87	11.93	13.86	17.36	23.22
2"	12.34	14.92	17.32	21.69	29.02
3"	18.19	21.98	25.53	31.97	42.77
4"	23.39	28.26	32.82	41.11	54.99
5"	28.91	34.94	40.57	50.82	67.98
6"	34.43	41.61	48.32	60.52	80.96
8"	44.83	54.17	62.90	78.79	105.40
10"	55.87	67.51	78.40	98.20	131.37
12"	66.26	80.07	92.98	116.47	155.81

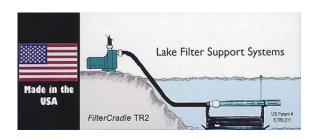
FILTER CRADLES & FILTER STANDS PATENT

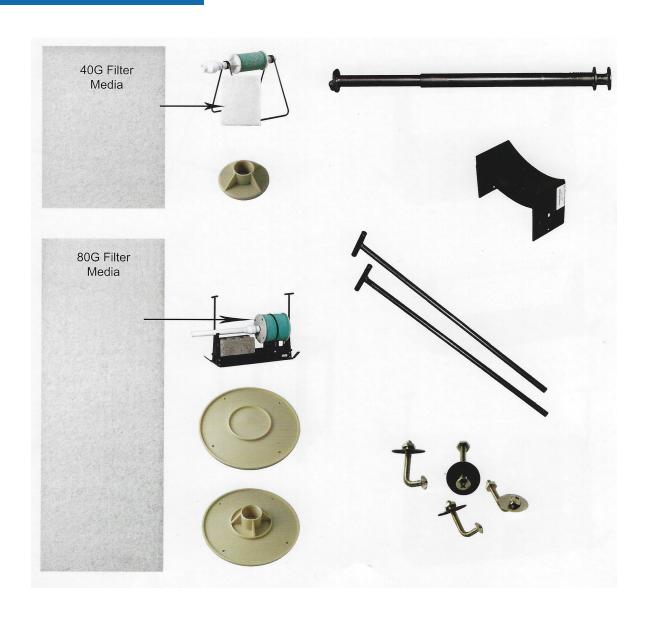
#6,780,311





FILTER CRADLES & FILTER STAND ACCESSORIES PATENT #6,780,311





A A	TR2 Dimensions 40"L x 13"W X14" H 14 ga., 17 lbs.	Powder coated 14 ga. steel unit that accepts most filter/screens and submersible pumps. Supports filters 12" above lake bottom. Unit has perforated notches that allow the stand to be altered to angle the pump if desired. Accepts optional T-posts or LFB Bracket. Tray accomodates two concrete blocks. Clamp and cable tie included for attachment of intake pipe and filter to unit. Also includes a flourescent styrofoam marker.
	TR2HD Dimensions 40"L x 13"W x14" H 19 lbs.	Heavy Duty TR2 Unit constructed of powder coated 12 gauge steel that accepts most filter/screens and submersible pumps. Supports filter 12" above lake bottom. Accepts optional T-posts. Unit has perforated notches that allow the stand to be altered to angle the pump if desired. Tray accomodates two concrete blocks. Includes two pipe clamps and flourescent styrofoam marker.
	TR2AG Dimensions 48"L x 24"W x 24"H 46 lbs.	Agricultural, nursery, and golf applications. Powder coated 12 ga. steel unit supports filters 24" above the lake bottom. Unit has perforated notches that allow the stand to be altered for a variety of filters and water depths. Accepts optional T-posts. Tray accomodates several concrete blocks.
	POND SCREEN SLED	The Big Foot pond screen sled is designed for use with a 4" PVC wrapped on plastic screen with a submersible pump inside the screen. When the pump is properly installed it forces the water to pass by the motor to keep it cool. Thesled is built with steel and has 8" plastic wheels for ease of Installation. Height at highest point of sled is 27 inches.
	BIG FOOT FILTER STAND Height 18"	The Big Foot filter stand is designed for use with the Big Foot 4oG Irrigation Filter or a 2" Slotted PVC screen for use as an intake for irrigation systems. The stand is intended to keep the 4oG or 2" screen suspended above the bottom of the water source. It can be held in place by a 4x8 concrete block or other ballast. The stand comes ready to use and the height can be adjusted by spreading the "legs" further apart if you are using it in shallow water.
	S80 Dimensions 18" SQ x 18"H 19 lbs.	Square unit made of powder coated 12 ga. steel that accepts "bucket sized" filters. Accepts optional T-posts. Tray accommodates 2 concrete blocks. Lower tray can be adjusted depending on size of filter.
1	L2 23"L x 16"H 6 lbs.	Marine coated unit that accepts well points and screen filters 1 "-4" in diameter. Unit supports filter in a minimum of 1 o" water. Includes a 23" cradle bar and two 16"L x $3/4$ " diameter rod legs.
	T-POST RAM 35"L	Tool used to install T-posts quickly and easily. Much safer than using a sledge for installing T-posts in hard lake bottoms. A sliding hammer with welded T-post collar that locks on to T-post handle for added safety. Steel pipe, welded construction.
	T-POST KIT 5 lbs each.	Anchors TR2 or S80 units to the lake bottom. Recommended for use in rough water conditions. Includes two solid steel rods with welded handles. Dimensions 30"L x .75" in diameter with a 4.5" welded handle.
	LFBRACKET	Large Filter Support Bracket supports filters 8" above lake bottom. Use this powder coated LF-Bracket when installing "bucket sized" filters on the TR2 unit. Bracket fastens to tray of TR2 for secure filter attachment. Hardware and rubber strap included. Use LF-Bracket with: 80gal Big Foot filter, Sure-Flo SPVCJ6, AlgaeQueen, KJeen-Flo, and various others.
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