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Baker® warrants the goods manufactured by it to be free from defects in material or workmanship under normal use or service, for a period of one year from date of shipment.

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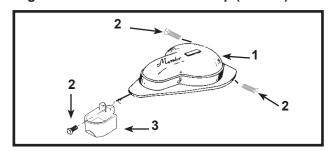
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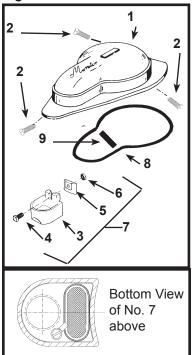


Figure 1 - Premium Ventilated Cap (4V - 7V)



Figu	Figure 1 - Premium Ventilated Cap										
Model No.		4V	5V	5.6V	6V	6.6V	7V				
Item	Qty	Description	Ord. No.	Ord. No.	Ord No.	Ord. No.	Ord. No.	Ord. No.			
1	1	Seal Cap, includes Item #2	PS154	PS145	PK409	PS146	PK410	PS147			
2	3	Set Screw 3/8" x 1-1/4" Long		PC288							
2	3	Set Screw 3/8" x 1" Long	PK13		PK13	PK13	PK13	PK13			
3	1	Adapter for Seal Cap	PK29	PK29	PK29	PK29	PK29	PK29			

Figure 2 - 8VR



Figu	Figure 2 - 8VR						
Mod	Model No.						
<u>Item</u>	Qty	Description	Ord. No.				
1	1	Seal Cap, includes Item #2	PS148				
2	3	Set Screw 1/2" x 1-1/4" Long	PS110				
3	1	Adapter for Seal Cap					
4	4 1 3/8" x 1-1/2" Bolt						
_5	1	Seal Cap Adapter Plate Clamp					
5_	1	Seal Cap Adapter Plate Clamp	PS139D				
6	1	Hex Nut 3/8"-16NC					
7		Seal Cap Adapter Assembly	PS151				
8	1	Gasket for 8VR (Large)	PS120				
9	1	Gasket for 8VR (Small)	PS123				





Figure 1 - Standard Turtle® Cap

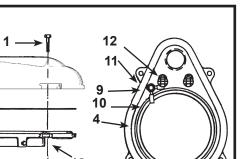


Figure 2 - Std. Turtle® Cap w/PVC Adapter

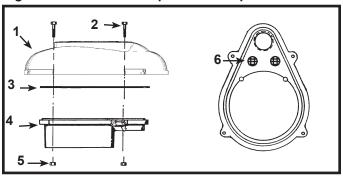


Figure 1 - Standard Turtle® Cap Model No. 4WE1 4.5WE1 5WE1 5.5WE1 6WE1 & 1.2 6.5WE11.2 6.9WE11.2 7WE11.2 Item Qtv Description Ord. No Ord. No. Ord. No Ord No. Ord. No. Ord. No. Ord. No. Ord. No. Cap Screw 1/4-20NCX1" PS550S PS550S PS5505 PS550S PSPS550S PS550S PS550S PS550S 1 4 2 1 Seal Cap PS5441 PS5451 PS5451 PS5461 PS5461 PS5471 PS5471 PS5471 3 Seal Cap Gasket PS564 PS565 PS565 PS566A PS566A PS567 PS567 PS567 PS594 PS594.5 PS595 PS595.5 PS596 PS59651.2 PS59651.2 PS5971.2 4 Retainer Ring Assembly Includes Item #5 & 12 PS5961.2* Set Screw 1/4-20NC PS586 5 3 PS586 PS586 PS586 PS588 PS586 PS587 PS586 Seal O-Ring PS574A SE2429N70 PS575/ SE2437E70 PS576A SE2441E70 PL87 PS577A 6 FM7S FM7S 7 4 Hex Nut 1/4-20NC FM7S FM7S FM7S FM7S FM7S FM7S Washer 1/4" S.S. PS536 PS536 PS536 PS536 PS536 PS536 PS536 PS536 9 PS537 PS537 PS537 10 2 Wire Terminal PS537 PS537 PS537 PS537 PS537 11 Cap Screw 1/4-20NC PS535 PS535 PS535 PS535 PS535 PS535 PS535 PS535 Screened Vent PS585 PS585 PS585 PS585 PS585 PS585 PS585 PS585 12 2 Bag Assembly, includes WE1 WE1 WE1 WE1 WE1 WE1 WE1 WE1 Item #1, 7, 9, 10 & 11

*With 1 1/4" Conduit

Figure 2 - Std. Turtle [®] Cap w/PVC Adapter									
Mode	el No.		4WE1P	5WE1P	6WE1P				
<u>Item</u>	Qty	Description	Ord. No.	Ord. No.	Ord. No.				
1	1	Seal Cap	PS5441	PS5451	PS5461				
_2	4	Cap Screw-1/4X20UNCX1"-18.8 S.S.	PS550S	PS550S	PS550S				
3	1	Gasket	PS564	PS565	PS566A				
_4	1	Cap Adapter, PVC-includes #6	PS464FRO	PS465FRO	PS466FRO				
_ 5	4	1/4" SS Hex. Head Nut	FM7S	FM7S	FM7S				
_6	2	Screened Vent	PS585	PS585	PS585				
	1	Bag assembly-includes Item #2 & 5	WE1P	WE1P	WE1P				

INSTALLATION INSTRUCTIONS FOR STD. TURTLE® CAP ONLY: Stretch O-Ring over casing, flush with the top. Place retainer ring, with set screws retracted, over O-Ring. Be sure set screws do not project and cut into O-Ring. Push down until O-Ring rolls against shoulder. Tighten set screws evenly. DO NOT OVER TIGHTEN. The well cap needs to be bonded to the system ground per applicable NEC or local electrical codes. Any questions about grounding should be directed to a licensed electrician. Do not position wire terminals over vent opening. Position gasket onto retainer ring and bolt cap on securely.

Follow Standard Procedure for Solvent Welding PVC Base Ring.





Figure 1 - Plastic Turtle® Cap for Steel Casing
Figure 1 - Plastic Turtle® Cap for Steel Casing

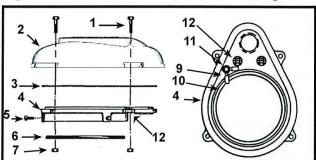
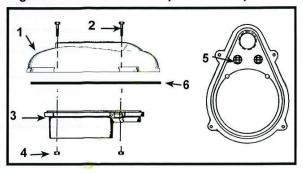


Figure 2 - Plastic Turtle® Cap w/PVC Adapter Figure 2 - Plastic Turtle® Cap w/PVC Adapter



Figu	Figure 1 - Plastic Turtle® Cap for Steel Casing								
Mod	el No	•	4PM1	4.5PM1	5PM1	5.5PM1	6PM1 & 11.2		
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.	Ord No.	Ord. No.		
1	4	Cap Screw 1/4-20NCX1"	PS550S	PS550S	PS550S	PS550S	PS550S		
2	1	Seal Cap	PS5441P	PS5451P	PS5451P	PS5461P	PS5461P		
3	1	Gasket	PS564	PS565	PS565	PS566A	PS566A		
4	1	Retainer Ring Asmb., inc. #5 & 12	PS594	PS594.5	PS595	PS595.5	PS596/		
							PS5961.2(11.2)		
5	3	Set Screw 1/4-20NC	PS586	PS586	PS586	PS588	PS586		
6	1	Seal O-Ring	PS574A	SE2429N70	PS575A	UC15	PS576A		
7	4	Hex Nut 1/4-20NC	FM7S	FM7S	FM7S	FM7S	FM7S		
9	1	Washer 1/4" S.S.	PS536	PS536	PS536	PS536	PS536		
10	2	Wire Terminal	PS537	PS537	PS537	PS537	PS537		
11	1	Cap Screw 1/4-20NC X 1/2 L.	PS535	PS535	PS535	PS535	PS535		
12	2	Screened Vent	PS585	PS585	PS585	PS585	PS585		
	1	Bag Asmb., includes #1,7,9,10 & 11	WE1	WE1	WE1	WE1	WE1		
		* with 1 1/4" Conduit	•						
1					ı	I	l		

Figur	Figure 2 - Std. Turtle [®] Cap w/PVC Adapter									
Mod	el No.		4PT1	5PT1	6PT1					
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.					
1	1	Seal Cap	PS5441P	PS5451P	PS5461P					
2	4	Cap Screw-1/4X20NCX1	PS550S	PS550S	PS550S					
3	1	Cap Adapter, PVC-includes #5	PS464FRO	PS465FRO	PS466FRO					
4	4	1/4" SS Hex. Head Nut	FM7S	FM7S	FM7S					
5	2	Screened Vent	PS585	PS585	PS585					
	1	Bag assembly-includes Item #2 & 4	WE1P	WE1P	WE1P					
6	1	Gasket	PS564	PS565	PS566A					

Note: () designates quantity for that unit.



Figure 1 - Premium Watertight Cap

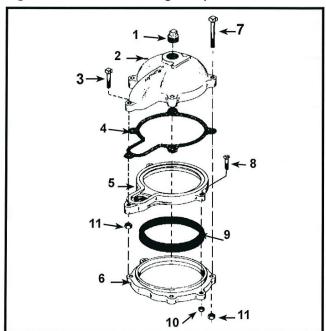
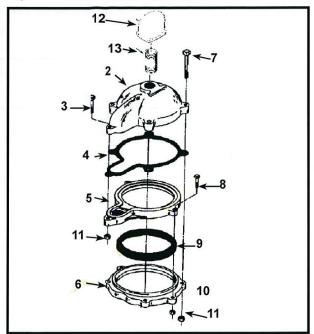


Figure 2 - Premium Watertight Cap with Air Vent



Mod	del N	o. Figure 1	4W	5W	6W	6.6W
Mod	del N	o. Figure 2	4WPSM	5WPSM	6WPSM	6.6WPSM
Item	ĮQty	Description	Ord. No.	Ord. No.	Ord. No.	Ord. No.
1_	1	Galvanized Plug	UN120	UN120	HD71G	HD71G
2	1_	Seal Cap	PS134	PS135	PS136	PS136.6
3	1_	Bolt, 3/8 x 2-1/4" L.	PS92S	PS92S		
3	1_	Bolt, 3/8 x 2-1/2" L.			PS93S	PS93S
4	1	Gasket	PS194	PS195	PS196	PS196.6
5	1	Retainer Ring	PS374	PS375	PS376	PS376.6
6	1	Depression Ring	PS184	PS185	PS186	PS186.6
7	4	Bolt, 3/8-16NC x 3-1/2" L.	PS94S	PS94S	PS94S (5)	PS94S (6)
8	2	Bolt, 5/16-18 NC x 2" L.	PS132S	PS132S	PS132S	PS132S
9	1	Seal Ring	PS164	PS165	PS166	PS166.6
10	2	Nut, 5/16-18NC	PC434S	PC434S	PC434S	PC434S
11	5	Nut, 3/8-16NC (bolts at lid)	UB17S	UB17S	UB17S (6)	UB17S (7)
12	1	Cap Vent & Screen	PS247	PS247	PS152	PS152
13	1	Galvanized Nipple	PN13	PN13	PS262	PS262
		Bag assembly of bolts/nuts	WBAG	WBAG	WBAG1	WBAG7

Note: () designates quantity for that unit.

All hardware is stainless steel



Figure 1 - Premium Watertight Cap

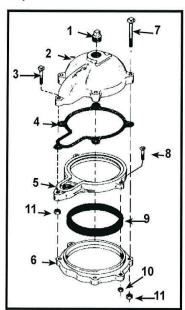
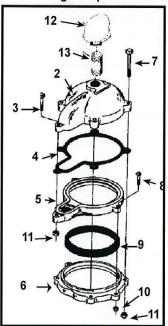
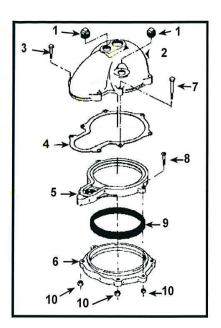


Figure 2 -Premium Watertight Cap w/Air Vent



*Model 12W



Model	No.	Figure 1	7W	8W	10W	12W*
Model	No.	Figure 2	7WPSM	8WPSM		
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.	Ord. No.
1	1	Galvanized Nipple	UG54G	UJ50G		
1&2	1	Seal Cap & Plug Assembly	PS217	PS218	PS350	UK850
2	1	Seal Cap	PS137	PS138		
3	1	Bolt, 3/8 x 2-1/2" L.	PS93S			
3	1	Bolt, 1/2 x 3" L.		APC7S	APC7S	
3	2	Bolt, 5/8 x 4-3/4" L.				LK4S
4	1	Gasket	PS197	PS198	PS342	UK72
5	1	Retainer Ring	PS377	PS178	PS341	UJ174
6	1	Depression Ring	PS187	PS188	PS189	UJ175
7	6	Bolt, 3/8-16NC x 3-1/2" L.	PS94S			
7	5	Bolt, 1/2 x 4-1/2" L.		PS221S	PS221S (6)	
7	5	Bolt, 5/8 x 6" L.				KP145S
8	2	Bolt, 5/16-18 NC x 2" L.	PS132S			
8	3	Bolt, 1/2 x 2-1/2" L.		PS111S	PS111S	
8	3	Bolt, 5/8 x 3-1/2" L.				UJ177S
9	1	Seal Ring	PS167	PS168	PS170	UJ176
10	2	Nut, 5/16-18NC	PC434S			
10-11	9	Nut, 1/2 - 13NC		PC433S	PC433S (10)	
10	10	Nut, 5/8 x 11NC				PC286S
11	7	Hex Nut, 3/8-16NC	UB17S			
12	1	Cap Vent & Screen	72PS	73PS		
13	1	Galvanized Nipple	PS263	PS265		
		Bag assembly of bolts/nuts	WBAG7	WBAG3	WBAG4	WBAG5

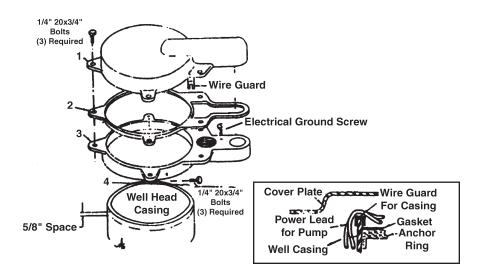
Note: () designates quantity for that unit.

All hardware is stainless steel





Vermin Proof Aluminum Well Cap Instruction Sheet Code approved in Wisconsin, Minnesota, Illinois, Michigan & Iowa



QUALITY FEATURES:

- All ground screw and bolts are stainless steel, will not corrode.
- 3/8" Tenzalloy alloy anchor ring for added strength.
- * Custom Cap personalization available.
- Molded Kroyton "G" 3/16" gasket for all season flexibility.

INSTRUCTIONS:

- 1. Place anchor ring approximately 5/8" over well casing and tighten (3) bolts
- 2. Place gasket over well casing and align with anchor ring.
- 3. Place wire guard over casing and insert electrical ground screw.
- 4. Loosely attach cover plate to anchor ring with (5) bolts
- 5. To properly seal casing, loosen anchor ring bolts and tighten cover plate bolts evenly.
- 6. Retighten anchor ring bolts.

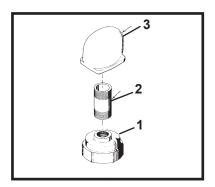
Model No.			4WTVA	4.5WTVA	5WTVA	5.5WTVA	6WTVA
Item No.	Description	Qtv	Order #	Order#	Order#	Order #	Order#
1	Cover Plate	1	AC4	AC4.5	AC5	AC5.5	AC6
2	Gasket	1	AG4	AG4.5	AG5	AG5.5	AG6
3	Anchor Rina	1	AR4	AR4.5	AR5	AR5.5	AR6
4	Bolt Kit	1	AB4	AB4.5	AB5	AB5.5	AB6

Model No.			7WTVA	7.5WTVA	8WTVA	10WTVA	12WTVA
Item No.	Description	Qty	Order#	Order#	Order#	Order#	Order#
1	Cover Plate	1	AC7	AC7.5	AC8	AC10	AC12
2	Gasket	1	AG7	AG7.5	AG8	AG10	AG12
3	Anchor Ring	1	AR7	AR7.5	AR8	AR10	AR12
4	Bolt Kit	1	AB7	AB7.5	AB8	AB10	AB12





Figure 1 - 3WJ Cap for Jet Pump Installations

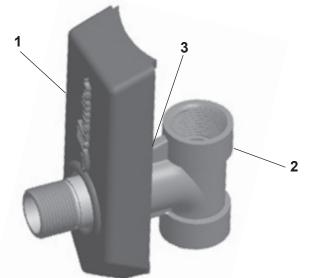


Figu	Figure 1 - 3WJ Cap for Jet Pump Installations							
Mode	Model No.							
Item	Qty	Description	Ord. No.					
1	1	Watertight cap w/1" Tapping	NA31P					
2	1	1 x 3 Galv. Nipple	PN13					
3	1	Cap Vent & Screen	PS247					

OM27 (1-1-95)

WELD ON PITLESS ADAPTERS

6123BEZLF Weld On Pitless Adapter Installation Instructions



- · Level Casting on Pipe
- Mark outside edges of casting
- Mark 1/4" inside right and left side only
- Cut left and right sides intersecting with top and bottom lines
- Check hole size with brass fitting before welding to be sure it is big enough

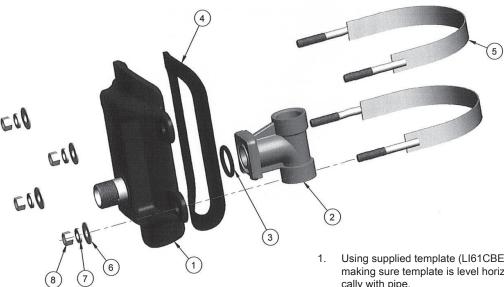
Mod	el No.	6123BEZLF	
Item	Qty	Description	Ord. No.
1	1	Weldment	C6W
2	1	Adapter	BH61MLF
3	1	O-ring	PL3

LF at the end of the part number indicates the part is Lead Free*
*Contains less than 0.25% lead as required by AB1953 and NSF/ANSI 61



CLAMP ON PITLESS ADAPTERS

61CBEZ Clamp On Pitless Adapter Installation Instructions



Model N	Model Number					
ITEM	QTY	DESCRIPTION	ORDER NO.			
1	1	Casing Fitting	C6BW			
2	1	Adapter 6 BEZ-LF	BH61MLF			
3	1	O-Ring	PL3			
4	1	Gasket	C6G			
5	2	Casing Strap	PL215A			
6	4	Flat Washer 7/16"	PL4S			
7	4	Lock Washer 7/16"	TU4S			
8	4	Hex Nut 7/16"	PJ50S			

- Using supplied template (LI61CBEZ), place on pipe making sure template is level horizontally and vertically with pipe.
- Cut on outside of marked lines.
- Cut left and right sides, intersection with top and bot-
- Check hole size with brass fitting and casing fitting.
- Put gasket on casing fitting. Adhesive side to casting
- Clamp on casing fitting to casing using casing straps (5), flat washers (6), lockwashers (7), and hex nuts (8) and tighten.
- Install pump. Make sure brass adapter (2) is in place behind stainless steel pins.

Notes

Test the water system under operating pressure before backfilling the trench.

Improper chlorination can lead to corrosion problems.

WARNING: Failure to support drop pipe and lift pipe assembly during installation and service may result in serious injury and/or damage to the pump

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SNAPPY® PITLESS ADAPTERS

INSTALLATION INSTRUCTIONS

- 1 Excavate around the well casing to a depth sufficiently below the frost line to mount the casing according to government regulations fitting.
- ②To cut the casing hole with a hole saw use a 2-3/8" diameter saw. Locate the hole at right angles to the discharge line for a swing joint. A Black and Decker "Twiston" hole saw, or the equivalent, is recommended for this purpose. A little practice on the basis of the saw manufacturer's instructions is required for best results. It is important to remove the inward

projecting fin formed in cutting the hole with a half round file. Steel chips adhering to the casing inside and out must be brushed away.

- 3 To mount strap hold strap in place, slide casing fitting over the bolt ends and against the casing and spin on nuts. Make sure that the inner lip of the fitting enters the casing hole. Tighten nuts, after which the outer edge of the casing fitting should be in contact with the casing. Torque to 10# ft., do not excede 20# ft. for PVC pipe.
- 4 To install pump, make up and lower the drop pipe assembly in the usual way, starting with the pump and stopping with the drop pipe fitting supported just above the well casing. Tape the motor cable to the unlabeled side of the drop pipe fitting. Coat the neoprene "O" ring with clean vaseline. Screw a 1" pipe into the drop pipe fitting and attach to hoist. Untape and uncoil the cable attached to the drop pipe fitting. With the opening in the drop pipe fitting extending in exactly the same direction as the casing fitting, slowly lower the drop pipe assembly into the well. When the drop pipe fitting aligns with the casing fitting the "T" arm of the actuator cam snaps downward thrusting the drop pipe fitting into the casing fitting sealing the joint and locking the two together.
- 5 To complete the well insert the eye of the release cable back into the well just as far enough to avoid interference with the cap. Complete the wiring and cap the well.
- 6)To pull the pump, remove the upper part of the cap. <u>First</u> support drop pipe with a 1" pipe screwed into the drop pipe fitting and attached to a hoist. <u>Then</u> release drop pipe by pulling upward on the release cable eye. The drop pipe assembly including the pump may now be withdrawn from the well.

(WARNING: Failure to support drop pipe assembly properly before pulling upward on release cable eye may result in serious injury and/or damage to drop pipe & pump assembly)

NOTE: If an At-The-Well Control system is used, the contractor will supply 1/4" nipple and 1/4" x 3/8" reducer coupling.

NOTE: Improper chlorination can lead to corrosion problems.

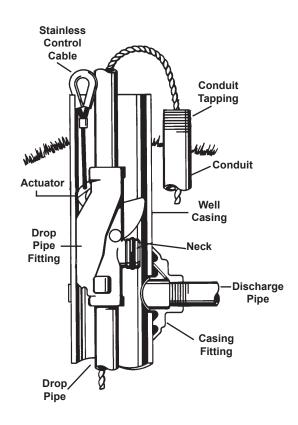




Installation Instructions for Pitless Adapter for Submersible Pumps with Pressurized Casing Fitting.

- 1 Excavate around the well casing according to government regulations to a depth sufficiently below the frostline to mount the casing fitting.
- To cut the casing hole with a hole saw use a 2-1/8" diameter saw for 4" casing fittings and a 2-1/2" or (63mm) diameter saw for all other casing fittings sizes. Locate the hole at right angles to the discharge line for a swing joint. A Black and Decker "Twiston" hole saw, or the equivalent, is recommended for this purpose. A little practice on the basis of the saw manufacturer's instructions is required for best results. It is important to remove the inward projecting fin formed in cutting the hole with a half round file. Steel chips adhering to the casing inside and out must be brushed away. The torch cut hole is not recommended for a pressurized casing fitting because there is not enough room for the errors ordinarily encountered in torch cutting. Smooth all edges after drilling.
- (3) To mount strap to casing fitting hold bolt in place, slide casing fitting over the bolt ends and against the casing and spin on nuts. Make sure that the inner lip of the fitting enters the casing hole. Tighten nuts, after which the outer edge of the discharge fitting should be in contact with the casing. Torque to 10# ft., do not exceed 20# ft. for PVC pipe.
- (4) To install pump, make up and lower the drop pipe assembly in the usual way, starting with the pump and stopping with the drop pipe fitting supported just above the well casing. Tape the motor cable to the unlabeled side of the drop pipe fitting. Coat the neoprene O-ring with clean vaseline. Screw a 1" pipe into the drop pipe fitting and attach to hoist. Untape and uncoil the cable attached to the drop pipe fitting. With the opening in the drop pipe fitting extending in exactly the same direction as the casing fitting, slowly lower the drop pipe assembly into the well. When the drop pipe fitting aligns with the casing fitting the "T" arm of the casing fitting snaps downward thrusting the drop pipe fitting into the casing fitting sealing the joint and locking the two together.
- To complete the well insert the eye of the release cable back into the well just far enough to avoid interference with the cap. Complete the wiring. Start the pump and check for leakage around the casing fitting and cap the well.

6 To pull the pump, remove the upper part of the cap. First support the drop pipe with a 1" pipe screwed into the drop pipe fitting and attached to a hoist. Then release the drop pipe by pulling upward on the release cable eye. The drop pipe assembly including the pump may now be withdrawn from the well.



NOTE: Improper chlorination can lead to corrosion problems.

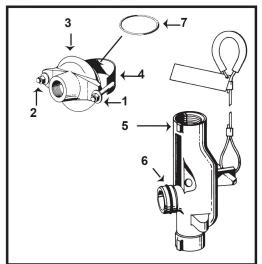
Snappy will support 1000 lbs.

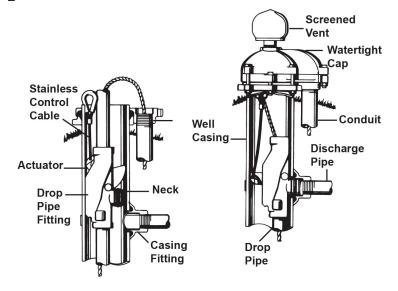
Maximum pressure rated at 250 PSI



SNAPPY® PITLESS ADAPTERS -

Figure 1 - 1" Drop Pipe





Figu	Figure 1 - 1" Drop Pipe			4-1/2" I.D.	5" I.D.	5-3/16" I.D.	
			4-1/2" O.D.	5" O.D.	5-9/16" O.D.	5-9/16" O.D.	5-3/16x6x1
Mode	Model No.		8PL41U	8PL4.31U	8PL51U	8PL5.21U	8PL5.25.61U
Item	Qty	Description	Ord. No.	Ord No.	Ord. No.	Ord. No.	Ord. No.
1	2	Stainless Steel Washer	PL4S	PL4S	PL4S	PL4S	PL4S
2	2	Stainless Steel Nut	PJ50S	PJ50S	PJ50S	PJ50S	PJ50S
		Set of #1 & #2	PL10S	PL10S	PL10S	PL10S	PL10S
3 & 7	1	Casing Fitting & O-ring	PL304	PL305	PL305	PL305	PL306
4	1	Casing Fitting Strap	PL214	PL225	PL215A	PL215A	PL221
5	1	Drop Ftg. Asmb w/O-ring	PL8401	PL8431	PL8501	PL8521	PL8521
6	1	O-Ring 1"	PL3	PL3	PL3	PL3	PL3
7	1	O-Ring for discharge	PL34	PL34	PL34	PL34	PL34

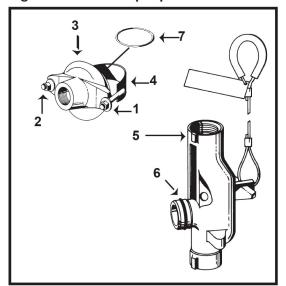
Figure	2 1 - 1	" Drop Pipe	6" I.D. 6-5/8" O.D.	6-1/4" I.D. 6-5/8" O.D.
Mode	No.		8PL61U	8PL6.21U
Item	Qty	Description	Ord. No.	Ord. No.
1	2	Stainless Steel Washer	PL4S	PL4S
2	2	Stainless Steel Nut	PJ50S	PJ50S
		Set of #1 & #2	PL10S	PL10S
3 & 7	1	Casing Fitting & O-ring	PL306	PL306
4	1	Casing Fitting Strap	PL216A	PL216A
5	1	Drop Ftg. Asmb w/O-ring	PL8601	PL8621
6	1	O-Ring 1"	PL3	PL3
7	1	O-Ring for discharge	PL34	PL34

All repair drop fitting assemblies are tapped for at the well controls

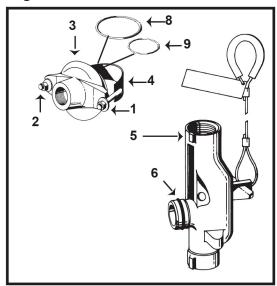


SNAPPY® PITLESS ADAPTERS –

Figure 1 - 1-1/4" Drop Pipe



*Figure 2 - Pressurized



						PF	RESSURIZE	ED*
						1"	1-1/4"	1-1/4"
Figu	re 1 -	1-1/4" Drop Pipe	4" I.D.	4-1/2" I.D.	5" I.D.	4" I.D.	5" I.D.	6" I.D.
			4-1/2" O.D.	5" O.D.	5-9/16" O.D	4-1/2" O.D.	5-9/16" O.D.	6-5/8" O.D.
Mode	el No.		8PL41.2U	8PL4.31.2U	8PL51.2U	8PL04P1	8PL05P1.2	8PL06P1.2
Item	Qty	Description	Ord. No.	Ord. No.	Ord No.	Ord. No.	Ord. No.	Ord. No.
1	2	Stainless Steel Washer	PL4S	PL4S	PL4S	PL4S	PL4S	PL4S
2	2	Stainless Steel Nut	PJ50S	PJ50S	PJ50S	PJ50S	PJ50S	PJ50S
		Set of #1 & #2	PL10S	PL10S	PL10S	PL10S	PL10S	PL10S
3 & 7	1	Casing Fitting & O-ring	PL304.2	PL305.2	PL305.2	PL49	PL98	PL106
4	1	Casing Fitting Strap	PL214	PL225	PL215A	PL214	PL215A	PL216A
5	1	Drop Ftg. Asmb w/O-ring	PL84012	PL84312	PL85012	PL8401	PL85012	PL86012
6	1	O-Ring 1-1/4"	PL40	PL40	PL40	PL3	PL40	PL40
7	1	O-Ring for discharge	PL34	PL34	PL34			
8	1	Outer O-ring				PL85	PL83	PL83
9	1	Inner O-Ring				PL86	PL84	PL84

Figure	1 - 1	-1/4" Drop Pipe	6" I.D.	6-1/4" I.D.
			6-5/8" O.D.	6-5/8" O.D.
Model No.			8PL61.2U	8PL6.21.2U
Item	Qty	Description	Ord. No.	Ord. No.
1	2	Stainless Steel Washer	PL4S	PL4S
2	2	Stainless Steel Nut	PJ50S	PJ50S
	1	Set of #1 & #2	PL10S	PL10S
3 & 7	1	Casing Fitting & O-ring	PL306.2	PL306.2
4	1	Casing Fitting Strap	PL216A	PL216A
5	1	Drop Ftg. Asmb w/O-ring	PL86012	PL86212
6	1	O-Ring 1-1/4"	PL40	PL40
7	1	O-Ring for discharge	PL34	PL34

All repair drop fitting assemblies are tapped for at the well controls



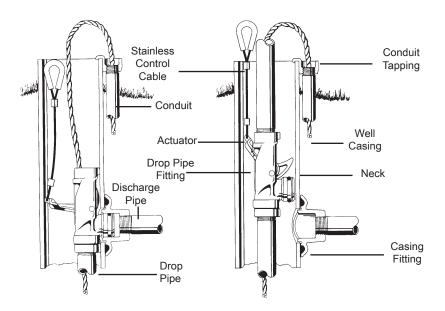
BULLDOG® PITLESS ADAPTERS INSTALLATION INSTRUCTIONS

- Excavate around the well casing according to government regulations to a depth sufficiently below the frost line to mount the casing fitting.
- To cut the casing hole with a hole saw use a 2-1/4" diameter saw for 1" Bulldog and 2-3/8" for the 1-1/4" Bulldog. Locate the hole at right angles to the discharge line for a swing joint. A Black and Decker "Twiston" hole saw, or the equivalent, is recommended for this purpose. A little practice on the basis of the saw manufacturer's instructions is required for best results. It is important to remove the inward projecting fin formed in cutting the hole with a half round file. Steel chips adhering to the casing inside and out must be brushed away.
- To mount strap hold strap in place, slide casing fitting over the bolt ends and against the casing and spin on nuts. Make sure that the inner lip of the fitting enters the casing hole. Tighten nuts, after which the outer edge of the casing fitting should be in contact with the casing. Torque to 10#ft., do not excede 20# ft. for PVC pipe.
- To install pump, make up and lower the drop pipe assembly in the usual way, starting with the pump and stopping with the drop pipe fitting supported just above the well casing. Tape the motor cable to the unlabeled side of the drop pipe fitting. Coat the neoprene "O" ring with clean vaseline. Screw a 1" pipe into the drop pipe fitting and attach to hoist. Untape and uncoil the cable attached to the drop pipe fitting. With the opening in the drop pipe fitting extending in exactly the same direction as the casing fitting, slowly lower the drop pipe assembly into the well. When the drop pipe fitting aligns with the casing fitting the "T" arm of the actuator cam snaps downward thrusting the drop pipe fitting into the casing fitting sealing the joint and locking the two together.
- 5 To complete the well insert the eye of the release cable back into the well just as far enough to avoid interference with the cap. Complete the wiring and cap the well.
- To pull the pump, remove the upper part of the cap. <u>First</u> support drop pipe with a 1" pipe screwed into the drop pipe fitting and attached to a hoist. <u>Then</u> release drop pipe by pulling upward on the release cable eye. The drop pipe assembly including the pump may now be withdrawn from the well. (WARNING: Failure to support drop pipe assembly properly before pulling upward on release cable eye may result in serious injury and/or damage to drop pipe & pump assembly)

NOTE: Improper chlorination can lead to corrosion problems.

Bulldog will support 1000 lbs.

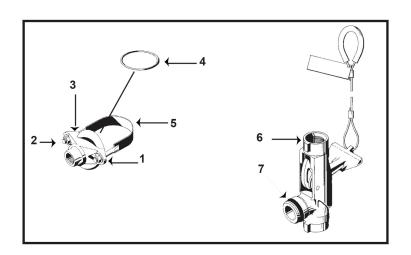
Maximum Pressure rated at 250 PSI





- BULLDOG® PITLESS ADAPTERS -

-Monitor® BRASS ADAPTERS



Figur	e 1 -	1" Drop Pipe	4" I.D. 4-1/2" O.D.	5" I.D. 5-9/16" O.D.	6" I.D. 6-5/8" O.D.
Mode	el No.		4A0LF	5A0LF	6A0LF
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.
1	2	Stainless Steel Washer	PL4S	PL4S	PL4S
2	2	Stainless Steel Nut	PJ50S	PJ50S	PJ50S
		Set of #1 & #2	PL10S	PL10S	PL10S
3 & 4	1	Casing Fitting & O-ring	PL304BLF	PL305BLF	PL306BLF
4	1	O-Ring for Discharge	PL34	PL34	PL34
5	1	Casing Fitting Strap	PL214	PL215A	PL216A
6	1	Drop Ftg. Asmb w/O-ring	PL8401BLF	PL8501BLF	PL8601BLF
7	1	O-Ring 1"	PL3	PL3	PL3

Figui	e 1 -	1-1/4" Drop Pipe	4" I.D. 4-1/2" O.D.	5" I.D. 5-9/16" O.D.	6" I.D. 6-5/8" O.D.
Mode	el No.		4B0LF	5B0LF	6B0LF
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.
1	2	Stainless Steel Washer	PL4S	PL4S	PL4S
2	2	Stainless Steel Nut	PJ50S	PJ50S	PJ50S
		Set of #1 & #2	PL10S	PL10S	PL10S
3 & 4	1	Casing Fitting & O-ring	PL304.2BLF	PL305.2BLF	PL306.2BLF
4	1	O-Ring for Discharge	PL34	PL34	PL34
5	1	Casing Fitting Strap	PL214	PL215A	PL216A
6	1	Drop Ftg. Asmb w/O-ring	PL84012BLF	PL85012BLF	PL86012BLF
7	1	O-Ring 1-1/4"	PL40	PL40	PL40

LF at the end of the part number indicates the part is Lead Free*
*Contains less than 0.25% lead as required by AB1953 and NSF/ANSI 61



SANITARY ALL BRASS -

PITLESS ADAPTERS FOR 5" TO 8" I.D. WELL SIZES Installation Instructions

When the pipe trench is open, use a holesaw to cut a 1-3/4" hole in the well casing at the desired bury depth, below the frost line. Remove any burr from the edges of the hole.

Remove the nut (7) (or 1-1/4" NPT adapter coupling with o-ring (8&9)), brass collar washer (6) and thicker outside gasket (5) from the pitless adapter.

To prevent losing casing fitting (3) down the well, pull apart drop fitting (1) and casing fitting (3) and reassemble drop fitting(1) in reverse (upside down).

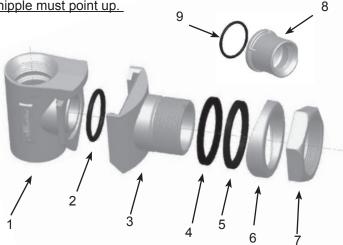
With the remaining assembled parts, screw a sufficient length of 1" pipe (hand tight) into the drop fitting (1) (removable male part). The bottom of the drop fitting (1) is tapered for fast and easy location of casing fitting (3). An elbow or tee with nipple(s) of sufficient length on the other end of the 1" pipe will prevent accidentally dropping the assembly down the well.

With the thinner inside gasket (4) in place on the casing fitting, using the 1" pipe, lower the assembly into the well, guiding the nipple through the hole in the casing. Notch cut into nipple must point up.

Slide the outside gasket (5) and collar washer (6) on the nipple. Screw the nut (7) (or 1-1/4" adapter coupling with o-ring(8&9)) on the nipple. With the 1" lift pipe inside the casing in a plumb position, securely tighten the nut (or 1-1/4" adapter coupling) with a wrench, until the gaskets are fully compressed. Push down on lift out pipe and separate drop fitting from casing fitting.

Employing the pitless adapter, install the pump in the well. (Nominal pump diameter to be at least 1" less than casing I.D.) Install the discharge piping. Complete the wiring and install code approved cap. (Test the water system under operating pressure before backfilling the trench).

WARNING: Failure to support drop pipe and lift pipe assembly during installation and service may result in serious injury and/or damage to inner assembly and pump.



						F	PRESSURIZE	ĒD
Item	Qty	Description	1BTLF	100BTLF	1251BTLF	1BPTLF	100BPTLF	125BPTLF
Size			1"	1"	1-1/4"	1"	1"	1-1/4"
1	1	Drop Fitting	PA141TLF	PA143TLF	PA142TLF	PA141TLF	PA143TLF	PA142TLF
2	1	O-Ring	ORH10	ORH10	ORH10	ORH10	ORH10	ORH10
3	1	Casing Fitting	PA140TLF	PA140TLF	PA140TLF	PA140TPLF	PA140TPLF	PA140TPLF
4	1	Gasket, Inside	GI11T	GI11T	GI11T	GI11T	GI11T	GI11T
5	1	Gasket, Outside	GO21	GO21	GO21	GO21	GO21	GO21
6	1	Collar, Washer	PA144T	PA144T	PA144AT	PA144T	PA144T	PA144AT
7	1	Nut	PA139T	PA139T		PA139T	PA139T	
8	1	Adapter Coupling			PA138TLF			PA138TLF
9	1	O-ring			SE2224N70			SE2224N70



LF at the end of the part number indicates the part is Lead Free*

*Contains less than 0.25% lead as required by AB1953 and NSF/ANSI 61

SANITARY ALL BRASS -

PITLESS ADAPTERS FOR 6" TO 8" I.D. WELL SIZES Installation Instructions

When the pipe trench is open, use a holesaw to cut a 2 -1/2" hole in the well casing at the desired bury depth, below the frost line. Remove any burr from the edges of the hole.

Remove the nut (7), brass collar washer (6) and the outside gasket (5) from the pitless adapter.

To prevent losing casing fitting (3) down the well, pull apart drop fitting (1) and casing fitting (3) and reassemble drop fitting(1) in reverse (upside down).

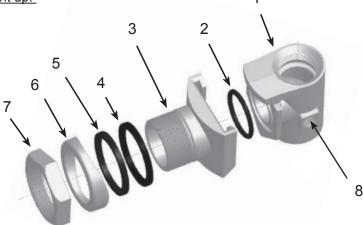
With the remaining assembled parts, screw a sufficient length of 1-1/2" pipe (hand tight) into the drop fitting (1) (removable male part). The bottom of the drop fitting (1) is tapered for fast and easy location of casing fitting (3). An elbow or tee with nipple(s) of sufficient length on the other end of the 1-1/2" pipe will prevent accidentally dropping the assembly down the well.

With the inside gasket (4) in place on the casing fitting, using the 1-1/2" pipe, lower the assembly into the well, guiding the nipple through the hole in the casing. Notch cut into nipple must point up.

Slide the outside gasket (5) and collar washer (6) on the nipple. Screw the nut (7) on the nipple. With the 1-1/2" lift pipe inside the casing in a plumb position, securely tighten the nut with a wrench, until the gaskets are fully compressed. Push down on lift out pipe and separate drop fitting from casing fitting.

Employing the pitless adapter, install the pump in the well. (Nominal pump diameter to be at least 1" less than casing I.D.) Install the discharge piping. Complete the wiring and install code approved cap. (Test the water system under operating pressure before backfilling the trench).

WARNING: Failure to support drop pipe and lift pipe assembly during installation and service may result in serious injury and/or damage to inner assembly and pump.



					PRESSI	JRIZED
Item	Qty	Description	150BTLF	150BTCLF	150BPTLF	150BPTCLF
Size			1-1/2"	1-1/2"	1-1/2"	1-1/2"
1	1	Drop Fitting	PA155MLF	PA155MTLF	PA155MLF	PA155MTLF
2	1	O-Ring	SE2328C70	SE2328C70	SE2328C70	SE2328C70
3	1	Casing Fitting	PA150MLF	PA150MLF	PA150MTLF	PA150MTLF
4	1	Gasket, Inside	G150	G150	G150	G150
5	1	Gasket, Outside	G150	G150	G150	G150
6	1	Collar, Washer	PA154	PA154	PA154	PA154
7	1	Nut	PA159	PA159	PA159	PA159
8				1/4" NPT		1/4" NPT



PITLESS ADAPTER FOR 5" to 8" I.D. WELL SIZE Installation Instructions

When the pipe trench is open, use a holesaw to cut a 2 -1/2" hole in the well casing at the desired bury depth, below the frost line. Remove any burr from the edges of the hole.

Remove the nut (7), brass collar washer (6) the outside gasket (5) and the drop fitting (1) from the pitless adapter. *Please note: for installation the drop fitting (1) must be removed from casing fitting(3) or the unit will not fit in the 5" casing*

To prevent losing casing fitting (3) down the well, attach the casing fitting to the installation tool (PA199).

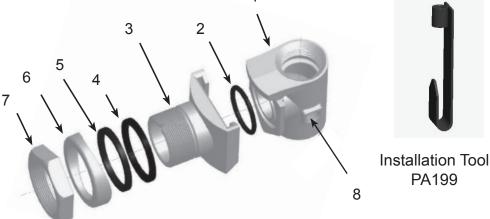
Screw a sufficient length of 3/4" pipe (hand tight) into the installation tool. An elbow or tee with nipple(s) of sufficient length on the other end of the 3/4" pipe will prevent accidentally dropping the assembly down the well.

With the inside gasket (4) in place on the casing fitting (3), using the installation tool, lower the casing fitting (3) with gasket (4) into the well, guiding the nipple through the hole in the casing. Notch cut into nipple must point up.

Slide the outside gasket (5) and collar washer (6) on the nipple. Screw the nut (7) on the nipple. With the 3/4" lift pipe inside the casing in a plumb position, securely tighten the nut with a wrench, until the gaskets are fully compressed. Push down on lift out pipe and separate installation tool from casing fitting.

Employing the pitless adapter, install the pump in the well. (Nominal pump diameter to be at least 1" less than casing I.D.) Install the discharge piping. Complete the wiring and install code approved cap. (Test the water system under operating pressure before backfilling the trench).

WARNING: Failure to support drop pipe and lift pipe assembly during installation and service may result in serious injury and/or damage to inner assembly and pump.



					PRESSI	JRIZED
Item	Qty	Description	150BTLF	150BTCLF	150BPTLF	150BPTCLF
Size			1-1/2"	1-1/2"	1-1/2"	1-1/2"
1	1	Drop Fitting	PA155MLF	PA155MTLF	PA155MLF	PA155MTLF
2	1	O-Ring	SE2328C70	SE2328C70	SE2328C70	SE2328C70
3	1	Casing Fitting	PA150MLF	PA150MLF	PA150MPLF	PA150MTLF
4	1	Gasket, Inside	G150	G150	G150	G150
5	1	Gasket, Outside	G150	G150	G150	G150
6	1	Collar, Washer	PA154	PA154	PA154	PA154
7	1	Nut	PA159	PA159	PA159	PA159
8				1/4" NPT		1/4" NPT

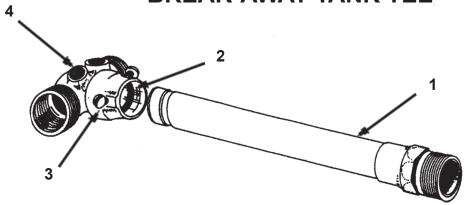


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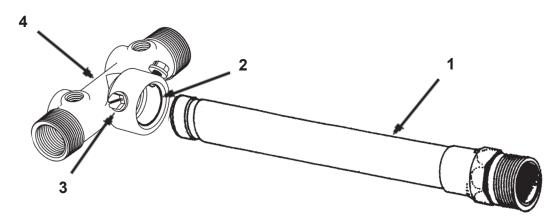
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BREAK-AWAY TANK TEE —



1" Tee with One 1/2" Port and two 1/4" Ports

	Item 1 Copper Tube	Item 2	Item 3	Item 4
Model No.	with Fitting	O-ring	Lock Screw	Tee Head
1BAT80MLF	C80M	TOR1	E90SS.5	THS1TLF
1BAT260MLF	C260	TOR1	E90SS.5	THS1TLF
1BAT311MLF	C311	TOR1	E90SS.5	THS1TLF
1BAT00LF	C00	TOR1	E90SS.5	THS1TLF
1BAT80FLF	C80F	TOR1	E90SS.5	THS1TLF
1BAT210MLF	C210	TOR1	E90SS.5	THS1TLF



1" Tee with Two 1/2" Ports and Two 1/4" Ports

	Item 1 Copper Tube	Item 2	Item 3	Item 4
Model No.	with Fitting	O-ring	Lock Screw	Tee Head
1BAT82FLF	C80F	TOR1	E90SS.5	THF1ATLF
1BAT82MLF	C80M	TOR1	E90SS.5	THF1ATLF
1BAT262MLF	C260	TOR1	E90SS.5	THF1ATLF
1BAT312MLF	C311	TOR1	E90SS.5	THF1ATLF
1BAT02LF	C00	TOR1	E90SS.5	THF1ATLF

1-1/4" Tee with Two 3/4" Ports and Two 1/4" Ports

Model No.	Item 1 Copper Tube with Fitting	Item 2 O-ring	Item 3 Lock Screw	Item 4 Tee Head
12BAT82FLF	CA82F	TOR125	E90SS.5	THF125ATLF
12BAT82MLF	CA82M	TOR125	E90SS.5	THF125ATLF
12BAT387MLF	CA387M	TOR125	E90SS.5	THF125ATLF
12BAT334MLF	CA334M	TOR125	E90SS.5	THF125ATLF

LF at the end of the part number indicates the part is Lead Free* * Contains less than 0.25% lead as required by AB1953 and NSF/ANSI 61

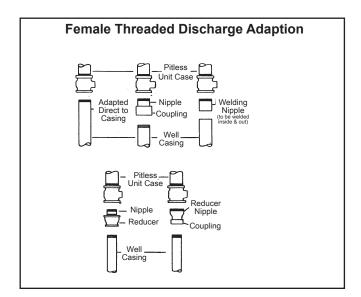
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INSTALLATION INSTRUCTIONS

- All pitless unit cases are joined by threading or welding either to well casing or adapter.
 - Where there is a change in size between pitless unit casing diameter and well casing diameter and well casing diameter an adapter must be threaded to pitless unit case.
- Establish ground level at the well location. It is desirable to have ground slope away from pitless unit case in all directions.
- 3. The pitless unit case should extend above the ground level according to state well code. To accomplish this the well casing must be cut off at a distance below the ground level equal to the distance above ground less than the pitless unit case length. Take into account the method of adaption.*
- In order to do work, excavate around the well casing according to government regulations where well casing is to be cut off.
- 5. Cut off the well casing perpendicular to well casing axis.
- 6. The spool should now be removed from the case to do this use a piece of 1-1/4" pipe with a thread on one end and a length of 2' or 3' longer than pitless unit. Remove seal cap insert the threaded end of the pipe inside the case and into the end of the spool. Screw hand tight, then place a block of wood against the lower end of the spool casting and strike the block with a fairly heavy object and pull on the pipe which will remove the spool from the pitless case.



- 7. Lower the pitless case in place, rotate the discharge outlet to the desired angle. Rotating 90° to discharge line and using 90° elbow will allow any movement of the discharge line with undue stress at the discharge line connection.
- Lower submersible pump and drop pipe into casing. Screw spool onto drop pipe. Holes are provided in the spool through which the pump motor cable may be passed.
- Wipe the rubber "O" ring seals with a clean cloth and then coat with a heavy layer of petroleum jelly (vaseline) for proper seating of rings. Lower the entire assembly into pitless unit case.
- 10. Remove the 1-1/4" pipe. Install the cap. Connect discharge outlet to water system and complete wiring.
- 11. The unit is now ready to operate under power and should be run a sufficiently long time to see that there are no leaks in the discharge pipe.

The hole should not be filled in until the unit is running satisfactorily. Care should be exercised to fill under discharge line properly before back filling.

MONITOR® KWIK CONNECT

Monitor PS Units with Kwik Connect on the bottom of the discharge body require no threading or welding.

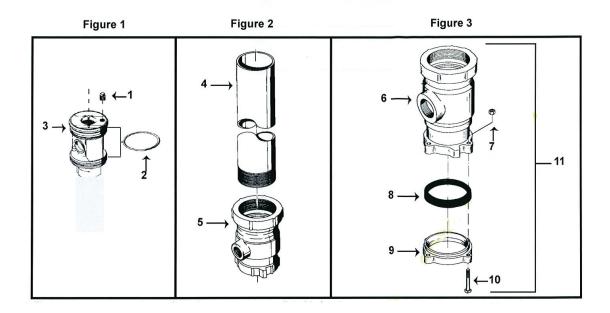
TO INSTALL:

- 1. Cut off the well casing at the desired point. See Step 3.
- Use a file to remove any burrs from the top of well casing after it is cut.
- Loosen the bolts on the bottom of the discharge body, and slide the unit onto the well casing.
- 4. Tighten all the bolts equally.



Monitor P5

Spool Type Pitless Units for 4", 5" & 6" I.D. Wells



The drawings and parts list apply to the model numbers listed below including those with either a B, N, or a BN after the Upper Case Size.

Note: Lift out pine size 1 1/4"

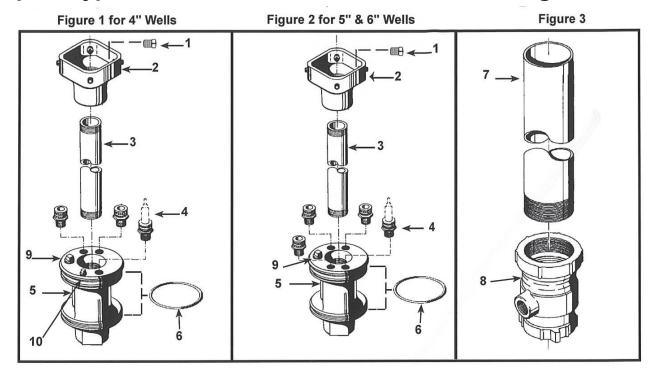
	MODEL NUMBERS		ERS	140	ite. Ent out pipe size i 1/4
	Well	Upper			
Bury	Size	Case			
Depth Unit	<u>Tapping</u>	<u>Size</u>	<u>Spool</u>	<u>Cap</u>	* Item 4
2' to 8' PS	4"	5"	S4	C0	Pitless Case is 5" I.P.S 8 NPT - Bury depth plus 10"
2' to 8' PS	5"	6"	S4	C0	Pitless Case is 6" I.P.S 8 NPT - Bury depth plus 10"
2' to 8' PS	6"	7"	S4	C0	Pitless Case is 7" I.P.S 8 NPT - Bury depth plus 10"

Spoo	Spool Type Pitless Units for 4", 5" & 6" I.D. Wells							
Mod	el No	•	4" I.D.	5" I.D.	6" I.D.			
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.			
1	1	Pipe Plug, 3/8-18 NPT galv. steel	UN122	UN122	UN122			
2	2	O-Ring	UB15	NC15	UC15			
3	1	Spool -Thrd Dischg-Fig. 2, includes #1,2 & 3	5S4PS	6S4PS	7S4PS			
3	1	Spool-Kwik. Dischg-Fig. 3, includes #1,2 & 3	5S4PSN	6S4PS	7S4PS			
4	1	Pitless Case See Above	*	*	*			
5	1	Discharge Body Threaded Unit	UB163	UE44	UC254			
6	1	Discharge Body Kwikonect Unit	UB83	UE34	UC294			
7	4	Hex Nut 1/2" - 13NC	PC433	PC433 (5)	PC433 (6)			
8	1	Seal Ring	PS164	PS165	PS166			
9	1	Depression Ring	UB190	UE96	UC285			
10	4	Bolt, 1/2"-13NC x 3" L.	UB201	UB201 (5)	UB201 (6)			
11		Kwikonect Discharge Body Assembly	UB450	UE560	UC670			
		Includes Item #'s 6 - 10 assembled						



-Monitor® P5

Spool Type Pitless Units for 4", 5" & 6" I.D. Flowing Wells



The drawings and parts list apply to the model numbers listed below including those with a B after the Upper Case Size.

	MODEL NUMBERS			ı	Note: L	ift out pipe size 1 1/4"
	Well	Upper				
Bury	Size	Case			Flowing	
Depth Unit	<u>Tapping</u>	<u>Size</u>	<u>Spool</u>	<u>Cap</u>	<u>Well</u>	* Item 7
2' to 8' PS	4"	5"	S4	C0	F	Pitless Case is 5" I.P.S 8 NPT - Bury depth plus 10"
2' to 8' PS	5"	6"	S4	C0	F	Pitless Case is 6" I.P.S 8 NPT - Bury depth plus 10"
2' to 8' PS	6"	7"	S4	C0	F	Pitless Case is 7" I.P.S 8 NPT - Bury depth plus 10"

Note: Lift out pipe size 1 1/4"

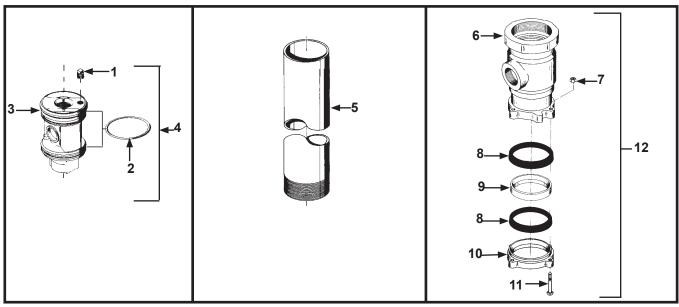
Spool Type Pitless Units for 4", 5" & 6" I.D. Flowing Wells							
Mode	el No.		4" I.D.	5" I.D.	6" I.D.		
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.		
1	4	Set Screw, 3/8-16NC x 1-3/4" L. Cup Point	YC225	PC288	YC225		
2	1	Hold-Down Assembly (Includes 1 & 2)	120UB	10UE	160UC		
3	1	Hold-Down Pipe, 1-1/4" I.P.S11-1/2 NPT.	Length = Pitless Unit Bury Depth + 7"				
4	3-4	Spool Cable Seals See Fig. 1 & 2	See Catalog	See Catalog	See Catalog		
5	1	Spool, includes #6	5S4PSF	6S4PSF	7S4PSF		
6	2	O-Ring	UB15	NC15	UC15		
7	1	Pitless Case See Above	*	*	*		
8	1	Discharge Body	UB163	UE44	UC254		
9	1	Pipe Plug, 3/8-galv steel	UN122	UN122	UN122		
10	1	Brass Screw Plug 1/8"	PS46				



-Monitor® P5

Spool Type Pitless Units for 4", 5" & 6" I.D. Wells with Pressurized Casing Connection

Figure 1 Figure 2 Figure 3



The drawings and parts list apply to the model numbers listed below including those with a P after the Upper Case Size.

MODEL NUMBERS

MODEL NOMBERO				N - 4 - 1 : 64 4 :		
	Well	Upper			Note: Lift out pipe size 1 1/4"	
Bury	Size	Case				
Depth Unit	<u>Tapping</u>	<u>Size</u>	<u>Cap</u>	<u>Spool</u>	<u>* Item 5</u>	
2' to 6' PS	4"	5"	W	E0	Pitless Case is 5" I.P.S 8 NPT - Bury depth plus 10"	
2' to 6' PS	5"	6"	W	E0	Pitless Case is 6" I.P.S 8 NPT - Bury depth plus 10"	
2' to 6' PS	6"	7"	W	E0	Pitless Case is 7" I.P.S 8 NPT - Bury depth plus 10"	

Spoo	Spool Type Pitless Units for 4", 5" & 6" I.D. Wells w/ Pressurized Casing Connection							
Mod	el No		4" I.D.	5" I.D.	6" I.D.			
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.			
1	1	3/8" Steel plug	UN122	UN122	UN122			
2	2	"O" Ring	UB15	NC15	UC15			
4	1	Spool Assembly, includes #'s 1-3	5S4PSN	6S4PS	7S4PS			
5	1	Pitless Case	*	*	*			
6	1	Discharge Body	UB334	UE234	UC334			
7	4	Hex Nut 1/2"-13NC	PC433	PC433 (5)	PC433 (6)			
8	2	Seal Ring	PS164	PS165	PS166			
9	1	Inner Depression Ring	UB88	UE197	UC288			
10	1	Depression Ring	UB89	UE196	UC289			
11	4	Bolt, 1/2"-13NC x 4-1/2" L.	PS220					
11	5	Bolt, 1/2"-13NC x 5" L.		PS219	PS219 (6)			
12	1	Kwikonect Assembly, includes #'s 6-11	UB450M	UE560M	UC670M			

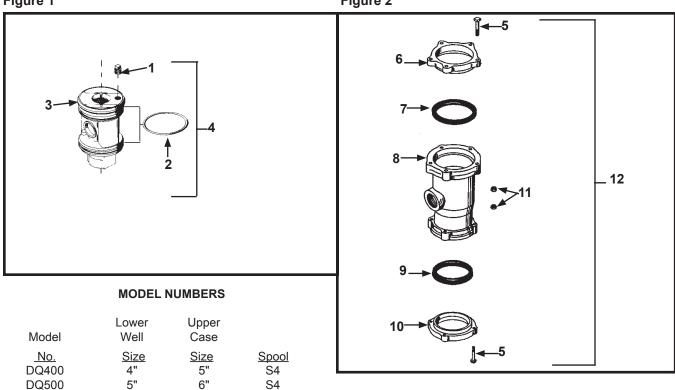
Note: () designates quantity for that unit.



Monitor P5

Double Kwik Connect Kits for 4" & 5" Wells





Doub	Double Kwik Connect Kits for 4" & 5" Wells							
Mode	l No		4" I.D.	5" I.D.				
Item	Qty	Description	Ord. No.	Ord. No.				
1	1	3/8" Steel Plug	UN122	UN122				
2	2	5" "O" Ring	UB15	NC15				
3	1	Spool	UB225	YC313				
4	1	Spool Assembly - Figure 1	5S4PSN	6S4PS				
5	9	Bolt, 1/2" - 13NC x 3" L.	UB201	UB201 (11)				
6	1	Depression Ring	UE96	UC285				
7	1	Seal Ring	PS165	PS166				
8	1	Discharge Body	UB383D	UE383D				
9	1	Seal Ring	PS164	PS165				
10	1	Depression Ring	UB190	UE96				
11	9	Hex Nut 1/2" x 13NC	PC433	PC433 (11)				
12	1	Discharge Body Assembly - Figure 2	UB450D	UE560D				

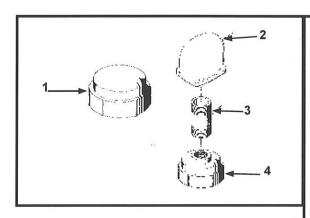
Note: () designates quantity for that unit.

NOTE: Customer provides upper casing, Sch. 40 steel or SDR26 PVC. I.D. of PVC pipe may vary. Always make sure spool will pass through pipe before cutting upper casing.



-Monitor PJ

Spool Type Pitless Units for 2"Wells - Deep Well, Flowing Well & **Shallow Well**



The drawings and parts list apply to the model numbers listed below including those with a B, C or W in the model number.

MODEL NUMBERS FOR SINGLE PIPE JET PUMPS Well

Upper

Bury	Size	Case	
Depth Unit	<u>Tapping</u>	<u>Size</u>	Spool
2' to 8' PJ	2"	3"	X11
2' to 8' PJ	2"	3"	X112

(B) MODEL NUMBERS FOR FLOWING WELLS USING **SHALLOW WELL PUMP** Well Linner

		vveii	Opper			
Bury		Size	Case	Concentric		Flowing
<u>Depth</u>	<u>Unit</u>	Tapping	<u>Size</u>	<u>Pipe</u>	<u>Spool</u>	Well
2' to 8'	ΡJ	2"	3"	С	X11	F
2' to 8'	ΡJ	2"	3"	С	X112	F

© MODEL NUMBERS FOR SHALLOW WELL PUMP

Bury		Size	Case	
Depth 2' to 8'	<u>Unit</u> PJ	Tapping 2"	Size 3"	Spool E11
2' to 8'	PJ	2"	3"	E112

			(A)	(B)	(C)
Model No.			Deep Well		Shallow Well
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.
1	1	Seal Cap	NA31	NA31	
2	1	Screen Vent			PS247
3	1	Galvnaized Nipple			PN13
4	1	Seal Cap-Tapped			NA31P
5	3	Set Screw 3/8-16NC x 1/2" L.	NA39	NA39	NA39
6	1	Hold Down Ftg, includes #"s 5 & 6 Assd	NA17	NA17	NA17
7	1	Hold Down Pipe	Hold-Down is 1"	I.P.S 11-1/2"NPT - Bui	ry Depth plus 7-15/16"
8	1	Spool	NA80	NA80	NA40
9	2	"O" Ring	NA115	NA115	NA115
10	1	Pitless Case	Pitless Case is 3'	I.P.S 8 NPT - Bury De	pth plus 10"
11	1	Discharge Body-1" Suction Tap	NA333		
11	1	Discharge Body-1-1/4" Suction Tap	NA233	NA234	NA234



MISCELLANEOUS INFORMATION ———

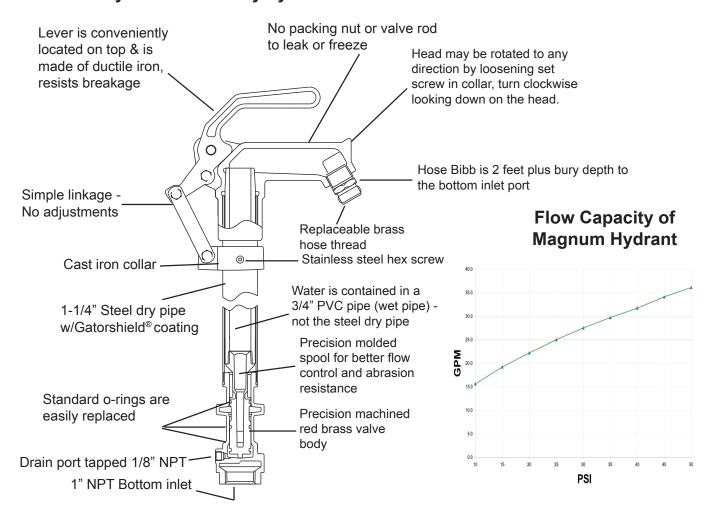
O-RING SELECTION GUIDE FULL PITLESS UNITS

Model	O-Ring	Inside	
(Well Size X Upper Case Size	Part No.	Diameter	Thickness
2 x 3	NA115	2.350 ± .018	.210 ± .005
3 x 4	NB15	$3.400 \pm .015$.210 ± .005
4 x 5	UB15	$4.10 \pm .028$.210 ± .005
4 x 8	UB15	$4.10 \pm .028$.210 ± .005
5 x 6	NC15	$5.10 \pm .037$.275 ± .006
5 x 8	NC15	$5.10 \pm .037$.275 ± .006
5.6 x 7	UC15	$5.975 \pm .037$.275 ± .006
6 x 7	UC15	$5.975 \pm .037$.275 ± .006
6.6 x 7	UC15	$5.975 \pm .037$.275 ± .006
6 x 8	UH15	$6.975 \pm .040$.275 ± .006
7 x 8	UH15	$6.975 \pm .040$.275 ± .006
8 x 10	UG15	$8.475 \pm .055$.275 ± .006
10 x 12	UJ15	$10.550 \pm .030$.375 ± .010
12 x 14	UK15	11.540 ± .030	.375 ± .010
14 x 16	UL15	13.110 ± .030	.500 ± .020
16 x 18	UM15	$14.900 \pm .030$.625 ± .022
18 x 20	UN15	16.840 ± .030	.625 ± .022
20 x 22	UQ15A	18.550 ± .030	.625 ± .022
24 x 26	UR15A	$22.430 \pm .030$.625 ± .022
26 x 28	US15A	24.600 ± .030	.625 ± .022
36 x38	UU15	33.915 [±] .030	.625 ⁺ .022



FROST-PROOF HYDRANT

Monitor Hydrant is the only hydrant with all of these features!



INSTALLATION

Proper installation is essential for satisfactory operation of any hydrant, regardless of make.

Adequate provision must be made for proper drainage in cold weather and this is best accomplished by the use of an adequate bed of gravel or pea rock, under and around hydrant. Plastic sheeting placed over gravel will prevent seepage of dirt into gravel to plug the spaces. If ground water table is high or hydrant elevation is lower than supply line you must run a drain tile from vicinity of hydrant.

MAINTENANCE

The absence of adjustments, plus the unique construction of your Monitor Hydrant makes maintenance very simple and easy. The only parts requiring replacement, under normal conditions, will be the three O-rings. No large pipe wrenches needed.

TO REPLACE O-RINGS

- 1. Turn off the water supply.
- 2. Loosen the hex screw in the collar with 5/32" wrench.
- 3. Pull out PVC wet pipe.
- 4. Replace o-rings.
- 5. Apply a thin coat of vaseline on the o-rings.
- 6. Hydrant stand pipe **must** be completely drained.
- 7. Install wet pipe back in hydrant stand pipe.
- 8. Handle **must** be in closed position.
- 9. Bottom out the head casting on the stand pipe.
- 10. Rotate the head casting outlet clockwise looking down on the head to the direction you want it.
- 11. Make sure collar is perpendicular with stand pipe.
- 12. Tighten hex screw Do Not Overtighten.

Patent #6,178,988 B1

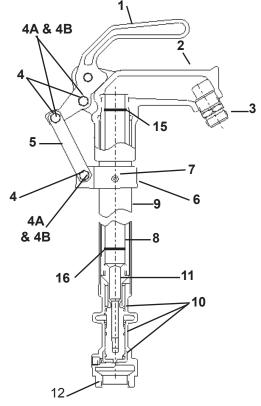
-Monitor®

FROST-PROOF HYDRANT



IMPORTANT NOTICE

When using a garden hose, an automatic vacuum breaker must be installed.



			Model
Item	Qty	Description	No.
1	1	Handle	H215D
2	1	Head Assembly (Includes Items 1 thru 7)	10-174ALF
3	1	Hose Adapter-NPT	H211ALF
4	3	Bolt 1/4-20X1.25	E90HC1.2
4A	3	Nut 1/4-20 Locking	DP49W
4B	2	Washer 1/4" Flat	UN243W
5	2	Linkage straps	H228
6	1	Collar	H230AFRO
7	1	Set Screw only 5/16UNCX.375 SS	PS355W1
8	1	Wet Pipe	*WP75
9	1	Dry Pipe	DRPT*
10	3	O-rings - 115 PTFE coated 70 durometer	SE2115N71
11	1	Spool & O-Rings	H220DA
12	1	Brass Valve Body	H222WMLFFRO
15	1	1 x .75 Reducer Bushing PVC	YH175
16	1	.75 Coupling PVC	YH7575

^{*}Add appropriate bury depth after this part number (example: -1 for 1 foot or -2 for 2 foot etc.)

Patent #6,178,988 B1

The following are available as REPLACEMENTS ONLY:

SE2115N90 90 durometer o-ring

H220DAX spool & o-rings with drain holes

WARRANTY STATEMENT

Baker warrants the goods manufactured by it to be free from defects in material or workmanship under normal use or service, for a period of one year from date of shipment.

This warranty does not apply to goods or parts not manufactured by Baker, instead Baker's obligation for these goods or parts is limited to the actual warranty extended to Baker by the manufacturer.

All warranties herein are void and do not apply if. 1) the goods or parts have been altered or repaired by others; 2) the goods have not been installed or used in accordance with any applicable instructions or limitations provided by Baker, or the manufacturer of the good or part; 3) the goods or parts have not been installed or used in accordance with the goods or parts normal use and service; or 4) the goods are used in nuclear facility applications.

BAKER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OF ANY KIND WITH RESPECT TO THE GOODS, PARTS AND MATERIALS, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY AS TO MERCHANTABILITY OR AS TO THE FITNESS OF THE MERCHANDISE FOR A PARTICULAR USE AND SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECTLY OR INDIRECTLY,

ARISING FROM THE USE OF SUCH MERCHANDISE OR FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

LF at the end of the part number indicates the part is Lead Free*

*Contains less than 0.25% lead as required by AB1953 and NSF/ANSI 61

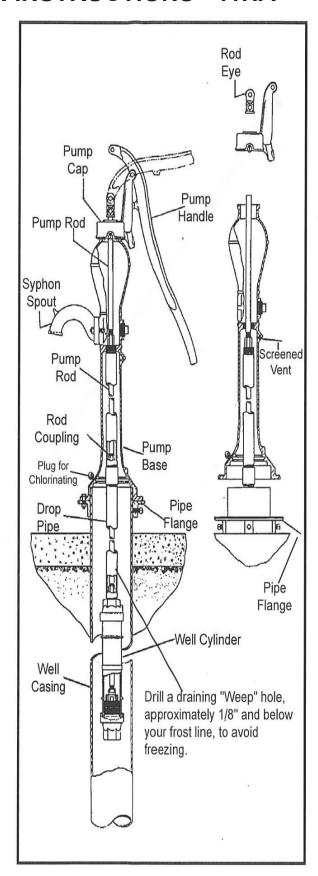


HAND PUMP INSTALLATION INSTRUCTIONS - 11HA

With depth of well known, assemble cylinder to equal lengths of drop pipe and pump rod. Insert into well and continue to add drop pipe and pump rod of equal lengths allowing for a minimum of 2 feet between bottom of cylinder and bottom of well.

Assemble pump following the procedure.

- 1. Attach HA52 pump rod to end of pump rod from well using a 7/16 x 7/16 rod coupling.
- 2. Slip pipe flange (must be ordered separately) over well casing.
- 3. Guide HD pump base over pump rod and attach to 1-1/4" drop pipe in well. Note: Base is internally tapped 1-1/4" NPT.
- 4. Place HA152 cap assembly over pump rod and onto top of base and align in direction you wish the handle to operate from (normally 180° from spout).
- 5. Tighten the (2) PS110 set screws securely.
- 6. Slip rod eye of HA153 pump handle assembly onto HA52 pump rod and tighten HF30 set screw securely.
- 7. Position pump handle into slot of pump cap HA152 and insert EP54 thru pump cap and handle. Secure pin with HF57 cotter pin.
- Check for plunger striking bottom or top of cylinder with the pump handle in extreme upper or lower position respectively. Some adjustment in length of the Drop Pipe or Pump Rod may be required.
- 9. Lower pump onto the pipe flange and secure to flange. Note: Be sure that pipe flange is properly secured to the well casing.
- Attach gasket (O80) and siphon spout (O9) to pump base using carriage bolts (HD70) and hex nuts (UB17).





HAND PUMP INSTALLATION INSTRUCTIONS - 11HD & 12HD, 11HDA & 12HDA

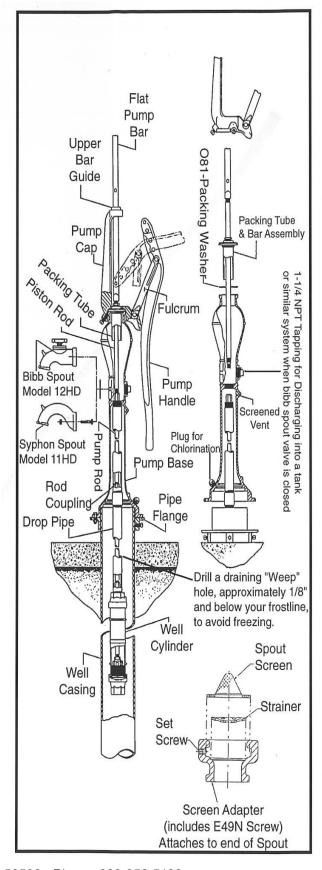
With depth of well known, assemble cylinder to equal lengths of drop pipe and pump rod. Insert into well and continue to add drop pipe and pump rod of equal lengths allowing for a minimum of 2 feet between bottom of cylinder and bottom of well.

Assemble pump following the procedure.

- Slip pipe flange (must be ordered separately) over well casing. Flange not required but may be used if preferred.
- 2. Unless already assembled, screw a 7/16 x 7/16 rod coupling to top of pump rod.
- 3. Guide pump base over pump rod and attach base securely to drop pipe. Note: Base is internally tapped 1-1/4" NPT. on 11HD & 12HD, 2" NPT. on 11HDA & 12HDA.
- 4. Position rubber packing washer (O81) onto top of pump base.
- 5. Attach bottom of round piston rod, of piston bar and packing tube assembly, to the 7/16 x 7/16 rod coupling attached to top of pump rod. Note: When tightening, grip the piston rod as close to the rod coupling as possible so as not to damage the rod surface that passes through packing tube assembly.
- Guide flat bar through pump cap (O200) and upper guide (O460) and attach pump cap to base by tightening the 3 set screws uniformly and securely.
- 7. Attach pump handle to fulcrum (O400) using hole in pump handle as shown on drawing. In this position there will be a 10" stroke. Length of stroke may be varied to 7-1/2 inches or 5 inches simply by using one of the other holes available in pump handle.

Note: Check for cylinder plunger striking bottom or top of cylinder with pump handle in extreme upper or lower position respectively. Some adjustment in length of the drop pipe or pump rod may be required to utilize the 10 inch stroke.

- 8. Lower the pump onto the pipe flange and secure to flange. Note: Be sure that pipe flange is properly secured to the well casing.
- Attach syphon spout (O9 for 11HD & 11HDA) or bibb spout (O7 for 12HD & 12HDA) along with gasket (O80) to base using the 2 carriage bolts and nuts furnished.
- Attach screen adapter assembly HPS (HD189, DP31, HD190) to end of spout, 1/4 turn and tighten set screw to lock to spout.





HAND PUMP INSTALLATION INSTRUCTIONS - 11HDS & 12HDS

With depth of well known, assemble cylinder to equal lengths of drop pipe and pump rod. Insert into well and continue to add drop pipe and pump rod of equal lengths allowing for a minimum of 2 feet between bottom of cylinder and bottom of well.

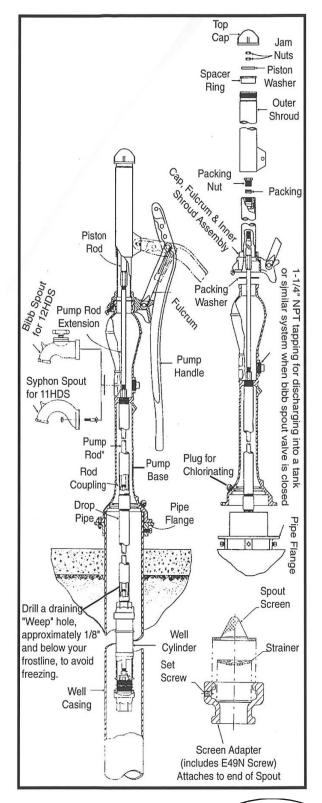
Assemble pump following the procedure.

- 1. Slip pipe flange (must be ordered separately) over well casing. Flange not required but may be used if preferred.
- 2. Screw 7/16 x 7/16 rod coupling (may already be installed) onto pump rod. Assemble pump rod extension (HD90) securely into rod coupling. Assemble rod coupling supplied with pump (7/16x7/16RC) onto top of rod extension followed by piston rod (DP72).

Note: When tightening piston rod into rod coupling, grip piston rod as close to rod coupling as possible to avoid damaging the rod surface that passes through packing assembly.

- Guide pump base over piston rod and attach base securely to drop pipe. Note: Base is internally tapped 1-1/4" NPT.
- 4. Position packing washer (O81) onto top of pump base.
- 5. Guide cap and inner shroud assembly over piston rod until it rests on top of packing washer and pump base. Tighten 3 set screws uniformly and securely to draw cap down tight upon base and washer.
- 6. Install Teflon packings (DP134), consisting of 3 rings, one ring at a time, into packing housing and around piston rod, being sure each ring is properly seated in bottom of housing. Note: Alternate cuts in ring approximately 90° from each other when installing.
- 7. Install packing nut (O31) and tighten down onto packing until a slight drag is felt on piston rod when raised. Note: It may be necessary to tighten further if leakage is noted when pump is in operation. Overtightening may make operating pump difficult.
- 8. Guide outer shroud (DP66P) over inner shroud followed by spacer ring (DP61) and spacer washer (DP62).
- 9. Install one jam nut (DP22) and tighten, then install other jam nut and tighten followed by top cap (DP60P).
- 10. Assemble pump handle (HF153) to fulcrum using pin (O54) and cotter pin (HD58). When installing pump handle with pin in position shown on drawing there will be a 10" stroke. Length of stroke may be varied to 7-1/2" or 5" simply by using one of the other holes available in pump handle.
- 11. Attach pump handle to outer shroud using pin (HF61) and cotter pin (HF57).
- 12. Lower the pump onto the pipe flange and secure to flange. Note: Be sure that pipe flange is properly secured to the well casing.
- 13. With pump handle operated in the extreme upper or lower position, the cylinder plunger must not strike the bottom or top of cylinder in these positions respectively. Some adjustment in length of Drop Pipe or Pump Rod may be required to utilize the 10 inch stroke.
- 14. Attach syphon spout (O9) for 11HDS) or bibb spout (O7 for 12HDS) along with gasket (O80) to base using the 2 carriage bolts and nuts provided.

15. Attach Screen Adapter Assembly (HD189, DP31, HD190) to end of spout, 1/4 turn and tighten set screw to lock to spout.





HAND PUMP INSTALLATION INSTRUCTIONS - 1DFHCS & 1DFHFS

With depth of well known, assemble cylinder to equal lengths of drop pipe and pump rod. Insert into well and continue to add drop pipe and pump rod of equal lengths allowing for a minimum of 2 feet between bottom of cylinder and bottom of well.

Assemble pump following the procedure below and drawings for 1DFHCS or 1DFHFS pumps respectively.

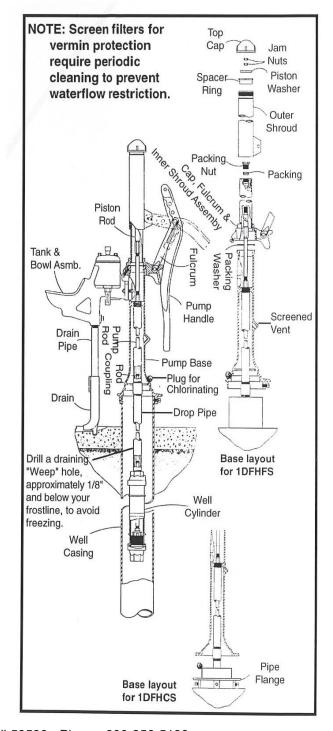
- Slip pipe flange (must be ordered separately) over well casing (1DFHCS only). Flange not required on 1DFHFS pumps.
- 2. Screw a 7/16 x 7/16 rod coupling onto pump rod in well. Assemble pump rod extension (HD90 for 1DFHCS pumps) or extension (DP90 for 1DFHFS pumps) securely onto rod coupling followed by rod coupling (7/16x7/16RC), supplied with pump, onto other end of rod extension. Assemble piston rod (DP72) into other end of rod coupling.

Note: When tightening piston rod into rod coupling, grip piston rod as close to rod coupling as possible to avoid damaging the rod surface that passes through packing assembly.

- Guide pump base over piston rod and attach base securely to drop pipe. Note: Base is internally tapped 1-1/4" NPT.
 - 4. Position packing washer (O81) onto top of pump base.
- Guide cap and inner shroud assembly over piston rod until it rests on top of packing washer and pump base. Tighten 3 set screws uniformly and securely to draw cap down tight against base and washer.
- 6. Install Teflon packings (DP134), consisting of 3 rings, one ring at a time, into packing housing and around piston rod, being sure each ring is properly seated in bottom of housing. Note: Alternate cuts in ring approximately 90° from each other when installing.
- 7. Install packing nut (O31) and tighten down onto packing until a slight drag is felt on piston rod when raised. Note: It may be necessary to tighten further if leakage is noted when pump is in operation. Overtightening may make operating pump difficult.
- 8. Guide outer shroud (DP66P) over inner shroud followed by spacer ring (DP61) and spacer washer (DP62).
- 9. Install one jam nut (DP22) and tighten, then install other jam nut and tighten followed by top cap (DP60).
- 10. Assemble pump handle (HF153) to fulcrum using pin (O54) and cotter pin (HD58). When installing pump handle with pin in position shown on drawing there will be a 10" stroke. Length of stroke may be varied to 7-1/2" or 5" simply by using one of the other holes available in pump handle.
- 11. Attach pump handle to outer shroud using pin (HF61) and cotter pin (HF57).
- 12. Lower the pump onto the pipe flange and secure to flange. Note: Be sure that pipe flange is properly secured to the well casing. This is for the pump model number 1DFHCS only. In the case of the model 1DFHFS, the base sets directly onto the casing and is secured by tightening the 4 set screws in the base, no flange is required.
- 13. With the pump handle in the extreme upper or lower position, the cylinder plunger must not strike the bottom or top of cylinder in these positions respectively. Some adjustment in length of the Drop Pipe or Pump Rod may be required to utilize

the 10 inch stroke.

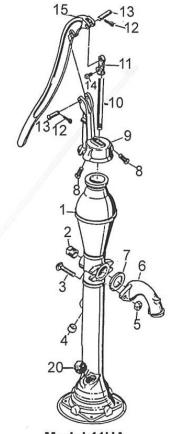
- 14. Assemble the tank and bowl assembly (DP58) along with gasket (DP11) securely to base outlet using the 2 carriage bolts and nuts supplied.
- 15. Screw drain pipe (DP18) into bottom of bowl assembly, followed by the drain (DP16). Note: Drain outlet to be directed away from pump operator.





Hand Pumps – Models 11HA

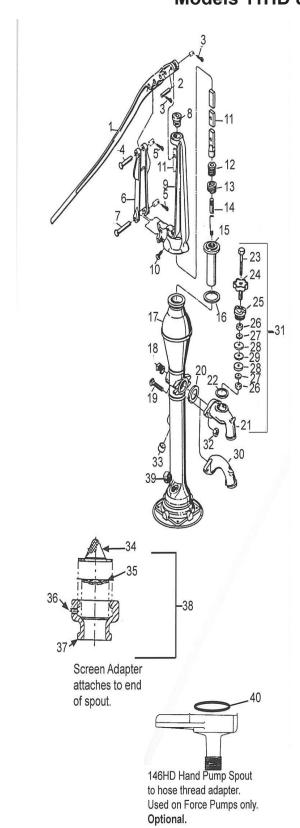
Lift Hand Pump					
Mod	11HA				
Item	Qty	Description	Ord. No.		
1	1	Base & plug assembly	HD140		
2	1	Standard Pipe plug 1-1/4" NPT	HD71		
3	2	Bolt, 3/8"-16NC x 2-1/4"	HD70		
4	1	Screen Vent	PS585A		
5	2	Hex Nut 3/8-16NC	UB17		
6	1	Siphon Spout	09		
7	1	Gasket	O80		
8	2	Set Screw-1/2"-13NC x 1-1/4"	PS11Ø		
9	1	Cap Assby includes item #8, 12 & 13	HA152		
10	1	Pump Rod	HA52		
11	1	Rod Eye & Set Screw Assby.	HA155		
12	2	Cotter Pin	HF57		
13	2	Pin, handle to cap 1/2" x 2-1/4" Long	EP54		
14	1	Set screw, 1/2"-13NC x 1"	HF30		
15	1	Handle, pin & rod eye assby includes	HA153		
	#11, 12, 13 & 14				
20	1	Pipe Plug, 1" NPT	SW33		



Model 11HA



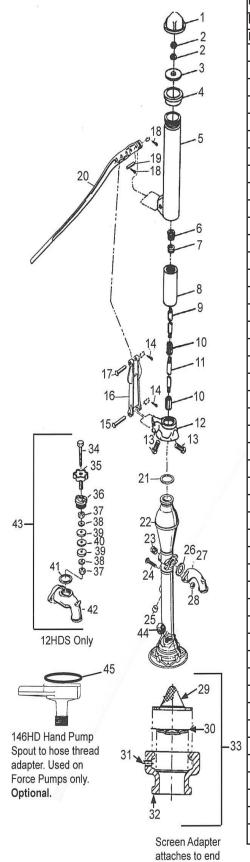
Models 11HD &11HDA, 12HD & 12HDA



Force Hand Pumps					
Model No. 11HD, 11HDA, 12HD & 12HDA					
Item			Ord. No.		
1	1	Handle & Pin Assby, includes #2 & 3	HF153		
2	1	Pump Pin	HF61A		
3	2	Cotter Pin	HF57		
4	1	Fulcrum & Handle Pin 5/8" x 3"	O54		
5	2	Cotter Pin	HF57		
6	1	Fulcrum includes #4, 5 & 7	O400		
7	1	Fulcrum & Cap Pin 5/8" x 3-3/4"	O53		
8	1	Upper Piston Bar Guide	O460		
9	1	Pump Cap includes #10	O200		
10	3	Set Screw 1/2"-13NC x 1-1/2"	HD59		
11	1	Flat Piston Bar	O50		
12	1	Packing Nut	O31		
13	1	Valve Stem Packg-Graphite rope 3/16" x 19"	HD67		
14	1	Piston Rod (16 7/8" long) 303 S.S.	O52		
15	1	Packing Flange	O6		
16	1	Packing Washer 1/16" in. thick	O81		
17	1	Base & Plug Assby 1-1/4"	HD140		
17	1	Base & Plug Assby 2"	HD140A		
18	1	Pipe Plug, 1-1/4" NPT	HD71		
19	2	Bolt, 3/8"-16NC x 2-1/4"	HD70		
20	1	Gasket 1/8" thick	O80		
21	1	Bibb Spout Body Casting	O37FRO		
22	1	Packing Washer	TP82		
	1	Valve Assby. includes #22 thru 29	HD155		
23	1	Hex Head Cap Screw 3/8" x 3-1/2"	HD34		
24	1	Hand wheel & screw assby.	HD156FRO		
25	1	Сар	O38FRO		
26	2	Nut 3/8"-16NC	UB17		
27	2	Backing Washer	O41		
28	2	Rubber Valve Disk	O43		
29	1	Separating Washer	O42		
30	1	Siphon Spout for 11HD	O9		
31	1	Bibb Spout Assby. includes #21-29	07		
32	2	Hex Nut, 3/8" - 16NC	UB17		
33	1	Screen Vent	PS585A		
34	1	Spout Screen	HD190		
35	1	Strainer	DP31		
36	1	Set screw, 1/4" x 20 x 3/8" L	E49N		
37	1	Screen Adapter includes #36	HD189		
38	1	Hand Pump Screen Adapter Kit	1HPS		
39	1	Pipe Plug, 1" NPT	SW33		
40	1	Gasket	HD69		



— Hand Pumps — Models 11HDS & 12HDS



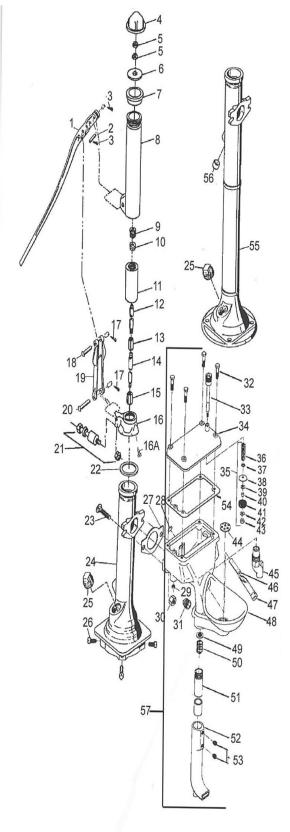
Force Hand Pumps					
Model No. 11HDS & 12HDS					
Item	Qty	Description	Ord. No.		
1	1	Тор Сар	DP60P		
2	2	Jam Nut	DP22		
3	1	Piston Washer	DP62		
4	1	Spacer Ring	DP61		
5	1	Outer Shroud Assby	DP66P		
6	1	Packing Nut	O31		
7	1	Teflon Packing	DP134		
8	1	Inner Shroud Assembly	DP68P		
9	1	Piston Rod	DP72		
10	2	Rod Coupling	7/16x7/16RC		
11	1	Pump Rod extension 13-3/8" L.	HD90		
12	1	Cap (includes #13)	DP202P		
13	3	Set Screw 1/2-13NC x 1-1/2" L.	HD59		
14	2	Cotter Pin	HF57		
15	1	Fulcrum & Cap Pin, 5/8" x 3-3/4"	O53		
16	1	Fulcrum includes 14, 15, 17	O400		
17	1	Fulcrum & Handle Pin, 5/8" x 3"	O54		
18	2	Cotter Pin	HF57		
19	1	Pump Pin	HF61A		
20	1	Handle & Pin Assby, includes #18 & 19	HF153		
21	1	Packing Washer	O81		
22	1	Base & Plug Assby1-1/4"	HD140		
	1	Valve Assby. includes #34 thru 41	HD155		
23	1	Standard Pipe Plug, 1-1/4" NPT	HD71		
24	2	Bolt, 3/8"-16NC x 2-1/4" L	HD70		
25	1	Screen Vent	PS585A		
26	1	Gasket	O80		
27	1	Siphon Spout for 11HD	O9		
28	2	Hex Nut, 3/8"-16NC	UB17		
29	1	Spout Screen	HD190		
30	1	Strainer	DP31		
31	1	Screw, 1/4" x 20 x 3/8" L.	E49N		
32	1	Screen Adapter includes #31	HD189		
33	1	Hand Pump screen adapter kit	1HPS		
34	1	Hex Head cap screw 3/8" x 3-1/2"	HD34		
35	1	Handwheel & Screw Assby.	HD156FRO		
36	1	Cap	O38FRO		
37	2	Hex Nut 3/8" x 16NC	UB17		
38	2	Backing Washer	O41		
39	2	Rubber Valve Disk	O43		
40	1	Separating Washer	O42		
41	1	Packing Washer	TP82		
42	1	Bibb Spout Body Casting	O37FRO		
43	1	Bibb Spout Assby. includes #34-42	07		
44	1	Pipe Plug, 1" NPT	SW33		
45	1	Gasket	HD69		



of Spout.

Drinking Fountain Pumps-

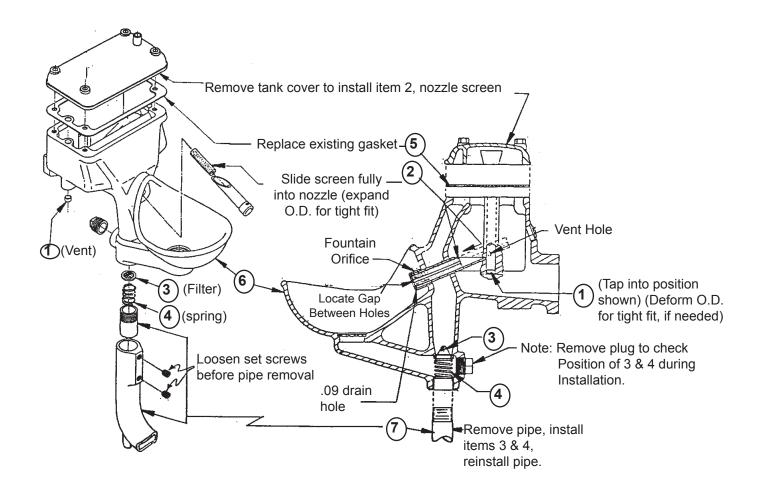
Models 1DFHCS & 1DFHFS



Mod	S & 1DFHFS		
Item		Description	Ord. No.
1	1	Handle & Pin Assby. includes #2 & 3	HF153
2	1	Pump Pin	HF61A
3	2	Cotter Pin	HF57
4	1	Тор Сар	DP60P
5	2	Jam Nut	DP22
6	1	Piston Washer	DP62
7	1	Spacer Ring	DP61
8	1	Outer Shroud Assby	DP66P
9	1	Packing Nut 1 1/8-12-NF	O31
10	1	Teflon Packing	DP134
11	1	Inner Shroud Assby	DP68P
12	1	Piston Rod 20 1/4" Long	DP72
13	1	Rod Coupling	7/16x7/16RC
14	1	Pump Rod Ext. (1DFHFS only) - 4-1/2"	DP90
' '	-	Pump Rod Ext. (1DFHCS only) - 13-3/8"	HD90
15	1	Rod Coupling	7/16x7/16RC
16	1	Cap (includes #16A)	DP202P
16A	3	Set Screw 1/2-13NC x 1-1/2"	HD59
17	2	Cotter Pin	HF57
18	1	Fulcrum & Handle Pin	O54
19	1	Fulcrum includes #17, 18, 20	O400
20			
	1	Fulcrum & Cap Pin	O53
21	1	Rubber Bumper Assby.	10DP
22	1	Packing Washer	081
23	2	Bolt-Tank to Base 7/16-14NC x 2" L.	DP70
24	1	Base Includes #25, 26 & 27 for 1DFHFS	HF50
25	1	Pipe Plug, 1" NPT	SW33
26	4	Set Screw-Base 1/2-13NC x 2" L.	HF33
27	1	Gasket-Tank to Base	DP11
28	1	3/4" Socket Plug	DP20
29	1	Screen Vent	PS585B
30	2	Nut, 7/16-14NC	PJ50
31	1	Pipe Plug- 3/4" NPT	DP20
32	4	Screw, 3/8-16 x 1-3/4" L.	TX15
33	1	Valve Handle & Shaft Assby.	DP56
34	1	Cover	DP53FRO
35	1	Valve Parts includes # 36 - 43	DP59
36	1	Valve Spring	DP40
37	1	Snap Ring	DP46
38	1	Spring Washer Cupped	DP47
39	1	Washer (Back up)	SW54
40	1	Spacer	DP48
41	1	Valve	SW11
42	1	Washer-Stainless Steel	UN243
43	1	Hex Lock Nut	DP49
44	1	Strainer	DP31
45	1	Spout	DP31
-	1		
46		Nozzle Screen	DP197
47	1	Nozzle	DP30
48	1	Reservoir Assby, includes #27, 28, 29, 31,	DP58
\vdash		44, 45, 46, 47, 49, 50 & 54	D. 7.0.5
49	1	Filter Washer	DP196
50	1	Holding Spring	DP195
51	1	Drain Pipe 1" Std. Pipe x 23-3/16" L.	DP18
52	1	Drain Assby. includes #53	DP16
53	2	Set Screw 7/16-14NC x 1/2" L.	DP17
54	1	Cover Gasket	DP12
55	1	Base, includes #27, 25 & 56 for 1DFHCS	HC50
56	1	Screen Vent	PS585A
57	1	Fountain Assembly	158DP
		Fountain Screening Kit inc. #29,46,49,50,54	199DP
58	1	Syphon Spout	09
		1 - Nt = k = m.	



Fountain Screening Kit Kit No. 199DP



Item	Qty	Description	Ord. No.
1	1	1/2" Vent Screen	PS585B
2	1	Nozzle Screen	DP197
3	1	1-1/4" O.D. Filter Washer	DP196
4	1	Helical Comp. Spring	DP196
5	1	Cover Gasket (New)	DP12
6		Existing Fountain	
7		Drain Assembly	



Installation Instructions (For converting Old Style Only)

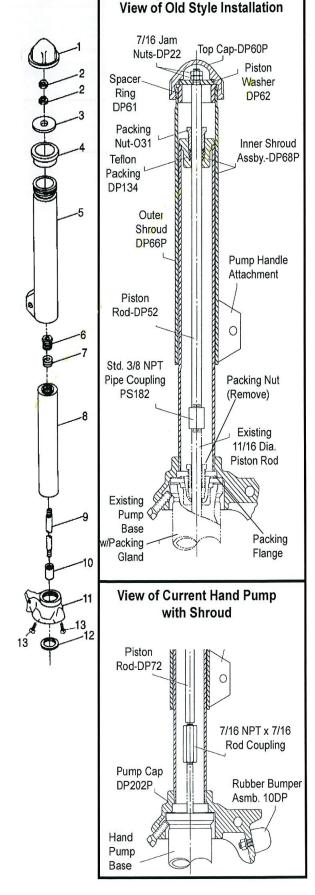
Mod	Model No.				
Item	Qty	Description	Ord. No.		
1	1	Top Cap	DP60P		
2	2	Jam Nut	DP22		
3	1	Piston Washer	DP62		
4	1	Spacer Ring	DP61		
5	1	Outer Shroud Assembly	DP66P		
6	1	Packing Nut	O31		
7	1	Teflon Packing	DP134		
8	1	Inner Shroud Assembly	DP68P		
9	1	Piston Rod 20" long	DP52		
10	1	Coupling 3/8"	PS182		
11	1	Pump Cap (includes item #13)	DP202P		
12	1	Gasket	O81		
13	3	Set Screw	HD59		
	1	Rubber Bumper Assembly	10DP		

- Step 1. Remove handle and fulcrum from existing installation.
- Step 2. Loosen set screws and remove cap from the pump.
- Step 3. Lift piston rod and attach vise grip to insure the piston rod does not drop through pump base.

IF CONVERTING OLD STYLE PUMP, EXISTING PACKING FLANGE AND PACKING NUT MUST BE REMOVED

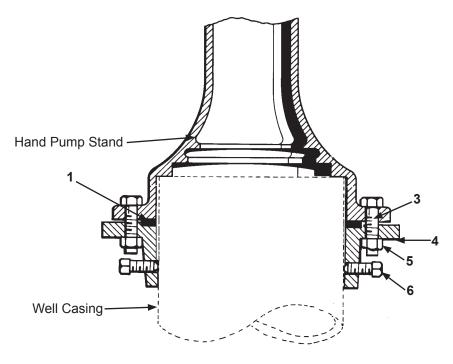
- Step 4. Remove the flat bar from piston rod.
- Step 5. Attach 3/8 coupling to the piston rod.
- Step 6. Attach piston rod from conversion kit to 3/8 coupling.
- Step 7 Remove vise grip.
- Step 8. Install pump cap assembly DP202P.
- Step 9. Enter teflon packing around piston rod at top of cap.
- Step 10. Screw in packing nut O31.
- Step 11. Install outer shroud DP66P.
- Step 12. Install spacer ring DP61.
- Step 13. Install piston washer DP62.
- Step 14. Fasten (2) jam nuts DP22 to top of piston.
- Step. 15. Raise outer shroud and attach top cap DP60P tighten securely.
- Step 16. Replace fulcrum and attach handle to outer shroud.

WHEN USED ON NEW INSTALLATION - FOLLOW HAND PUMP INSTALLATION INSTRUCTIONS





Pump Flanges



Mode	el No.		64MP, 65MP	& 66MP
Item	Qty	Description	Ord. No.	
1	1	Rubber Flange Gas	MP36	
		64MP, 65MP & 66M		
3	4	3/8" Cap Screw		KH320
4	4	Washer		SW68
5	4	3/8" Nut		UB17
6	4	1/2" x 1" Sq. Head S	Screw	HF30

Installation Instructions

The well casing must extend above the pump platform sufficiently enough to allow 2-1/2" between the bottom of the flange and the pump platform to allow for heaving of the pump platform due to frosts. If a concrete pump platform is constructed, space should be left between the concrete and the well casing so that movement of the concrete platform by frost will not disturb the well casing. This space should be treated as a typical expansion joint.

Slip the flange over the well casing. Set the pump onto the casing and bring the flange up to the pump base. Bolt the flange to the pump base and orientate the pump spout to the desired position. Tighten the flange set screws firmly but carefully so that no damage to the flange results. While tightening the flange set screws check for proper vertical alignment of pump.

After the flange has been located and tightened, remove the pump from the flange.

Place the rubber gasket in position. If a vermin resistant seal is required place a silicone bead between the outside of the well casing and the pump flange. You may also use plumbers putty or similar product. (not supplied) Place the pump back on the flange and insert the bolts through the pump base and flange, tightening uniformly, thereby compressing the rubber and thoroughly sealing the pump to the flange.

An air vent should be provided in the pump stand to admit fresh air to the well. A new pump can be purchased with a vent.





INSTRUCTION MANUAL AT-THE-WELL SCREW-IN CONTROL KIT FOR RECIPROCATING PUMPS

GENERAL

These instructions and parts list apply to the following Ordering Numbers:

(2-8) 8AWAPA (2-8) 8AWAA

INSTALLATION

Follow the instructions for installing the Monitor Pitless Unit up to the point where the spool is attached to the drop pipe. Then proceed with the following: (Numbers in "()" apply to Figure 3).

- 1. Remove 3/8" pipe plug from spool.
- 2. Dope brass threads on bottom of flexible fluid separator assembly (6) and then screw assembly into spool.
- Lower spool into pitless case while carefully uncoiling capillary tube. CAUTION: Avoid twisting or kinking tube.
- 4. Remove jam nut, cap and rubber gasket that holds fluid in tube, (3) from upper brass fitting and then slide fitting through 5/8" hole in pitless unit cap. Replace jam nut and tighten. NOTE: Loss of fluid may cause switch to react inconsistantly.

- on pressure switch (2). CAUTION: Overtightening of pressure switch may crack hex portion of switch.
- Connect electrical wiring. (Turn over pump by hand to check for correct adjustment). Turn on pump and operate for several minutes; then check for fluid leaks.
- 7. Check pressure switch setting.

TROUBLESHOOTING

CAUTION: Never remove pressure switch without first releasing all water system pressure. Not releasing all water system pressure will cause a loss of control fluid.

Loss of Control Fluid may be caused by:

- A. A leak between switch and upper brass fitting. Remedy: Leaks can be eliminated by use of plastic pipe dope on threads.
- B. Loose pressure switch diaphragm. **Remedy:** tighten screws that hold diaphragm.
- C. Cracked hex portion of pressure switch. **Remedy:** replace switch.

Cycling of Pressure Switch may be caused by:

- A. Too small a discharge line. **Remedy**: replace line; install buried tank or use smaller cylinder.
- Waterlogged pressure tank. Remedy: replace air volume control and/or drain or
- 5. Dope threads of upper brass fitting and then screw

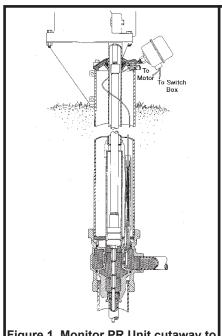


Figure 1. Monitor PR Unit cutaway to show 8AWAPA Control Kit installed in operating position.

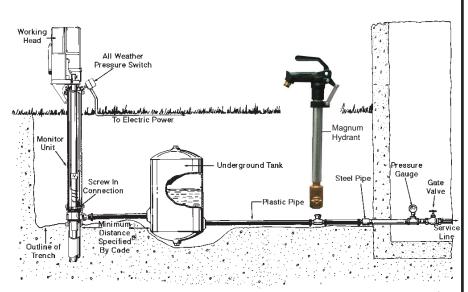


Figure 2. Typical At-the-well reciprocating pump installation showing 8AWAPA control kit.



pressure charge tank.

C. Inadequate differential setting on pressure switch. **Remedy:** Increase setting until cycling stops.

Refilling Control with Fluid

- 1. Disconnect wires, remove switch, and then reconnect wires to pump.
- 2. Start pump and run until fluid is visible at top of the upper brass fitting (It will not be necessary to exceed 40 or 45 psi.).
- 3. Screw a 1/4" pipe coupling onto the brass fitting and then screw a piece of 1/4" pipe approximately 20" long into coupling and fill with Monitor pressure control fluid. Note: 3/8" I.D. plastic or rubber tubing may be used instead of the pipe.
- 4. Release system pressure and wait several minutes after the system pressure registers "0" psi before removing the tube or fittings.
- 5. Place pipe dope on the brass fitting and replace pressure switch.

IF EXTENSION FROM MALE BRASS FITTING IS REQUIRED, THIS ALSO MUST BE FILLED WITH FLUID.

NOTE: If tank is installed beyond 15' of control, use at your own risk.

NOTE: Pressure relief valve is recommended on all installations - 120 PSI maximum.

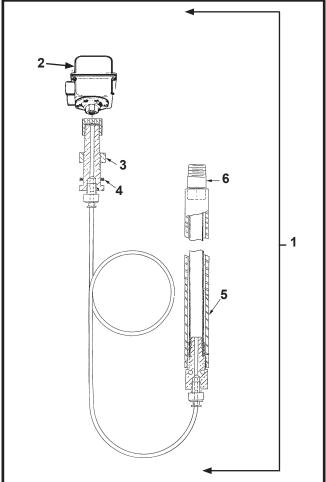


Figure 3. Exploded View of 8AWAPA Control Kit

Mode	Model No.		
Item	Qty	Description	Ord. No.
1	1	Control kit with pressure switch	8AWAPALF
1	1	Same as 8AWAPA less pressure switch	8AWAALF
2	1	All-weather pressure switch, 1/4" female tapping	0AWP
		set 30-50 psi, 80 lbs. maximum, 2 horsepower	
3	1	Brass jam nut-5/8"	PS9
4	1	Gasket-7/8"x41/64"x1/16"	PS2
5	1	Tube housing, only -galvanized	PS15A
6	1	Nipple 3/8" x 1-1/2" Stainless Steel	PS181S1
		Can of control fluid for 8AWAPA	8AWF
		controls (Not illustrated).	

LF at the end of the part number indicates the part is Lead Free*

* Contains less than 0.25% lead as required by AB1953 and NSF/ANSI 61





INSTRUCTION MANUAL

AT-THE-WELL PLUG-IN CONTROL KIT FOR RECIPROCATING PUMPS

GENERAL

This manual applies to control kits with the following ordering numbers:

(2-8) 0AWRPA (2-8) 0AWRA

INSTALLATION

Follow the instructions for installing the Monitor Pitless Unit up to the point where the spool is attached to the drop pipe. Then proceed with the following, (numbers in "()" refer to Figure 3).

- 1. Remove 3/8" pipe plug from spool.
- 2. Dope threads of female plug-in fitting (11) and screw into spool.
- 3. Lower spool into pitless case.
- 4. Rivet or screw lift-out bar (6) to control assembly.
- 5. Lubricate "O" rings (10) with Vaseline.
- Lower control assembly into pitless unit and plug in. When the control is being plugged in, the lift out bar (Fig. 1) should be turned at right angles to the side of the pitless case (Fig. 1). CAUTION: Avoid twisting or kinking tube.

- 7. Remove jam nut (3), cap and rubber gasket that holds fluid in tube, from upper brass fitting and then slide fitting through 5/8" hole in pitless unit cap. Replace jam nut and tighten. NOTE: Loss of fluid may cause switch to react inconsistantly.
- 8. Slip cap over drop pipe onto case and secure.
- Dope threads of upper brass fitting and then screw on pressure switch (2). CAUTION: Overtightening of pressure switch may crack hex portion of switch.
- Connect electrical wiring. (Turn over pump by hand to check for correct adjustment). Turn on pump and operate for several minutes, then check for fluid leaks.
- 11. Check pressure switch setting.

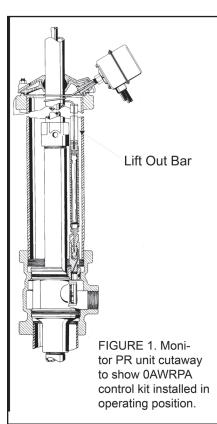
TROUBLE-SHOOTING

CAUTION: Never remove pressure switch without first releasing all water system pressure. Not releasing all water system pressure will cause a loss of control fluid.

Loss of Control Fluid may be caused by:

- A. A leak between switch and upper brass fitting. **Remedy:** Leaks can be eliminated by use of plastic pipe dope on threads.
- B. Loose pressure switch diaphragm.

 Remedy: Tighten screws that hold diaphragm.
- C. Cracked hex portion of pressure switch. **Remedy:** Replace switch.



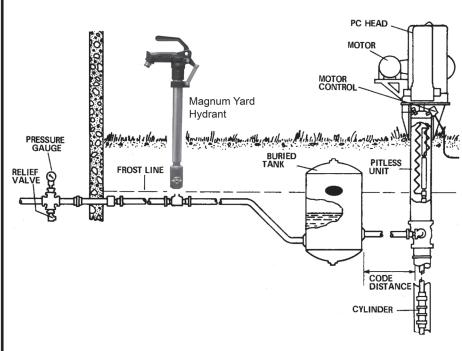


FIGURE 2. Typical At-the-Well Reciprocating pump installation showing 0AWRPA control kit, and underground tank.



- AW Controls -

Cycling of pressure switch may be caused by:

- A. Too small a discharge line.
 - **Remedy:** Replace line, install buried tank or use smaller cylinder.
- B. Water-logged pressure tank.
 - **Remedy:** Replace mechanical air volume control with float and/or drain or pressure charge tank
- C. Inadequate differential setting on pressure switch. Remedy: Increase setting until cycling stops.

Refilling Control with Fluid

- 1. Disconnect wires, remove switch and then reconnect wires to pump.
- 2. Start pump and run until fluid is visible at the top of the upper brass fitting (It will not be necessary to exceed 40 or 45 PSI).
- Screw a 1/4" pipe coupling onto the brass fitting and then screw a piece of 1/4" pipe approximately 20" long into coupling and fill with Monitor pressure control fluid. NOTE: 3/8" I.D. plastic or rubber tubing may be used instead of the pipe.
- Release system pressure and wait several minutes after the system pressure registers "O" PSI before removing the tube or fittings.
- 5. Place pipe dope on the brass fitting and replace pressure switch.

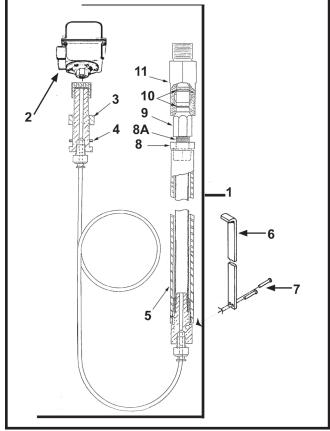


FIGURE 3 EXPLODED VIEW OF AWRPA CONTROL KIT

If extension from male brass fitting is required, this also must be filled with fluid.

NOTE: If tank is installed beyond 15' of control, use at your own risk.

NOTE: Pressure relief valve is recommended on all installations - 120 PSI maximum.

Model	No.		0AWRPALF
Item	Qty	Description	Ord. No.
1	1	Plug-in Control Kit with pressure switch	0AWRPALF
1	1	Same as above, w/o pressure switch	0AWRALF
2	1	Pressure switch	0AWP
3	1	Hex head jam nut 5/8"-18NF	PS9
4	1	Gasket	PS2
5	1	Tube housing	PS15A
6	1	Lift-out Bar - 3'	3PR
		Lift-out Bar - 4'	4PR
		Lift-out Bar - 5'	5PR
		Lift-out Bar - 6'	6PR
		Lift-out Bar - 7'	7PR
		Lift-out Bar - 8'	8PR
7	2	Rivets	PR3
8	1	Reducer Bushing 3/8" x 1/4-NPT	PR4
8A	1	Nipple 3/8" x 1/2" Stainless Steel	PS181S1
9	1	Male plug-in fitting	PR1ALF
10	2	"O" ring	PS27
11	1	Female plug-in fitting	PS44LF

LF at the end of the part number indicates the part is Lead Free*



^{*} Contains less than 0.25% lead as required by AB1953 and NSF/ANSI 61

-Monitor®AW

INSTRUCTION MANUAL

AT-THE-WELL PLUG-IN CONTROL KITS FOR SUBMERSIBLE PUMPS

GENERAL

This Manual applies to Control Kits with the following Ordering Numbers:

(2-8) OAWSP (2-8) OAWS

Follow the instructions for installing the Monitor Pitless Unit to the point where the spool or Drop-Pipe Fitting Assembly is attached to the Drop-Pipe, then proceed with the following, (numbers in "()" refer to Figure 3):

- 1. Remove 3/8" Pipe Plug from Spool or Drop-Pipe Fitting.
- 2. Dope threads of female plug-in fitting (10) and screw into spool or drop-pipe fitting.
- 3. Pull pump cable up through spool or drop-pipe fitting assembly and then lower complete assembly into pitless case.
- 4. Bolt lift-out bar (3) to mounting block (6) and if a motor control box is installed at the well, bolt it to the lift-out bar. Note: If pressure switch is not supplied with control kit, it should be installed before attaching lift-out bar.

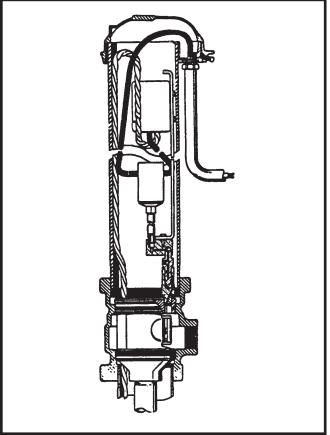


FIGURE 1 MONITOR PS UNIT CUTAWAY TO SHOW 0AWSP CONTROL KIT INSTALLED IN OPERATING POSITION.

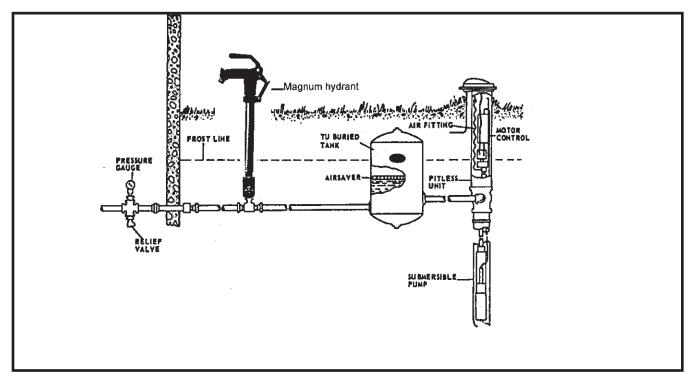


FIGURE 2 TYPICAL AT-THE-WELL SUBMERSIBLE PUMP INSTALLATION SHOWING 0AWSP CONTROL KIT, 8AWC AIR FITTING AND TU AIR SAVER UNDERGROUND TANK.



AW Controls -

- 5. Cut off the pump cable, 3 ft. above the top of the pitless case.
- Connect pump cable to control box and/or make connection between control box and pressure switch. Run power line through conduit opening in pitless cap and attach to pressure switch.
- 7. Lubricate "O" rings (8) with Vaseline.
- 8. Lower complete control assembly into the pitless unit until the plug-in connection is engaged.
- 9. Start the submersible pump according to pump manufacturer's instructions.
- 10. Check pressure switch setting and complete installation by securing pitless unit cap.

TROUBLE-SHOOTING

Cycling of Pressure Switch may be caused by:

- A. Water-logged System.
 - **Remedy:** Replace mechanical air volume control with Float and/or drain or pressure-charge tank.
- B. Inadequate differential setting of pressure switch. **Remedy:** Increase setting until cycling stops.
- C. Too small a discharge line.
 - **Remedy:** Replace line or install Monitor Buried Tank adjacent to pitless unit.

NOTE: If tank is installed beyond 15' of control, use at your own risk.

NOTE: Pressure relief valve is recommended on all installations - 120 PSI maximum.

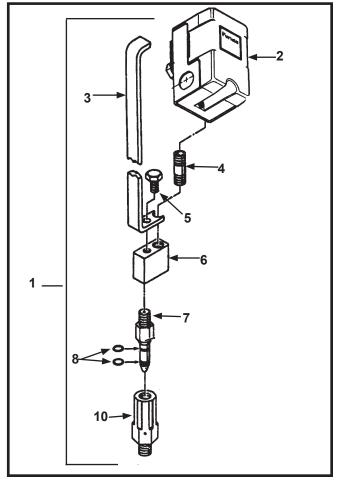


FIGURE 3 EXPLODED VIEW OF 0AWSP CONTROL KIT

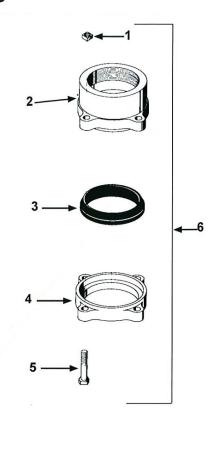
Mode	0AWSPLF		
Item Qty		Description	Ord. No.
1	1	Plug-in Control Kit with pressure switch	0AWSPLF
		PS Units	
1	1	Same as above, w/o pressure switch	0AWSLF
2	1	Pressure switch set 30-50 PSI.	334PC
3	1	Lift-out Bar - 3'	3PS
		Lift-out Bar - 4'	4PS
		Lift-out Bar - 5'	5PS
		Lift-out Bar - 6'	6PS
		Lift-out Bar - 7'	7PS
4	1	Pipe Nipple 1/4"-1-1/2" Stainless Steel	PC332
5	1	Hex Head Cap Screw 5/16"-18NC x 1/2"	PS29
6	1	Mounting block	PS282LF
7	1	Male Plug-in Fitting	PR1ALF
8	2	"O" Rings	PS27
10	1	Female plug-in fitting	PS44LF

LF at the end of the part number indicates the part is Lead Free*
*Contains less than 0.25% lead as required by AB1953 and NSF/ANSI 61

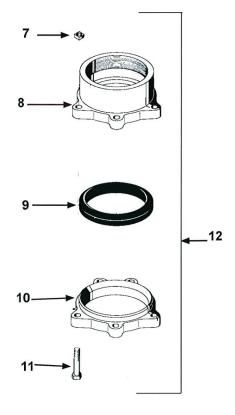


Pitless Connectors for 4", 5" & 6" I.D. Well Sizes

			4APC	65APC	66APC
Mode	l No.		4"	5"	6"
Item	Qty	Description	Ord. No.	Ord. No.	Ord. No.
1	4	Sq. Nut 1/2"-13NC	PC127		
2	1	Adapter	APC24		
3	1	Seal Ring	APC14		
4	1	Adapter Ring	APC34		
5	4	Hex Head Bolt 1/2"-13NC	APC7		
		3" Long			
6	1	Connector Assembly (1-5)	4APC		
7	5	Sq. Nut 1/2"-13NC		PC127	PC127(6)
8	1	Adapter		APC55	APC56
9	1	Seal Ring		PS165	PS166
10	1	Depression Ring		APC45	APC46
11	5	Hex Head Bolt 1/2"-13NC		APC7	APC7(6)
		3" Long			•
12	1	Connector Assembly (7-11)		65APC	66APC

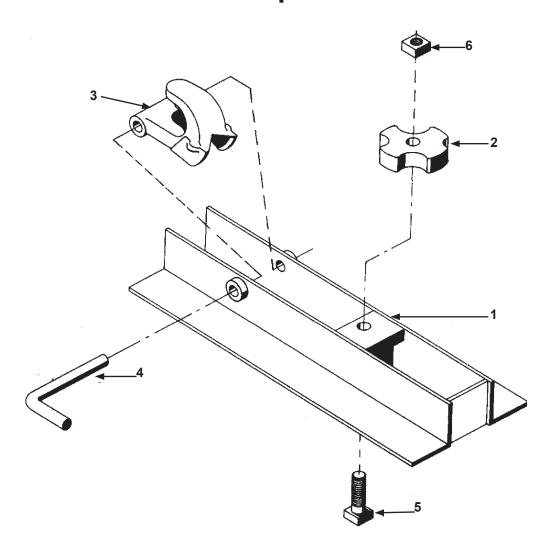


Note: () designates quantity for that unit.





201PH Pipe Holder



Item	Qty.	Description	Ord. No.
1	1	Holder Frame	PH55
2	1	Adjustable Jaw	PH1FRO
3	1	Clamp Jaw	PH2FRO
4	1	Hinge Pin	PH50
5	1	Machine Bolt	PH8B
6	1	Nut	PH8N

