

Whitewater

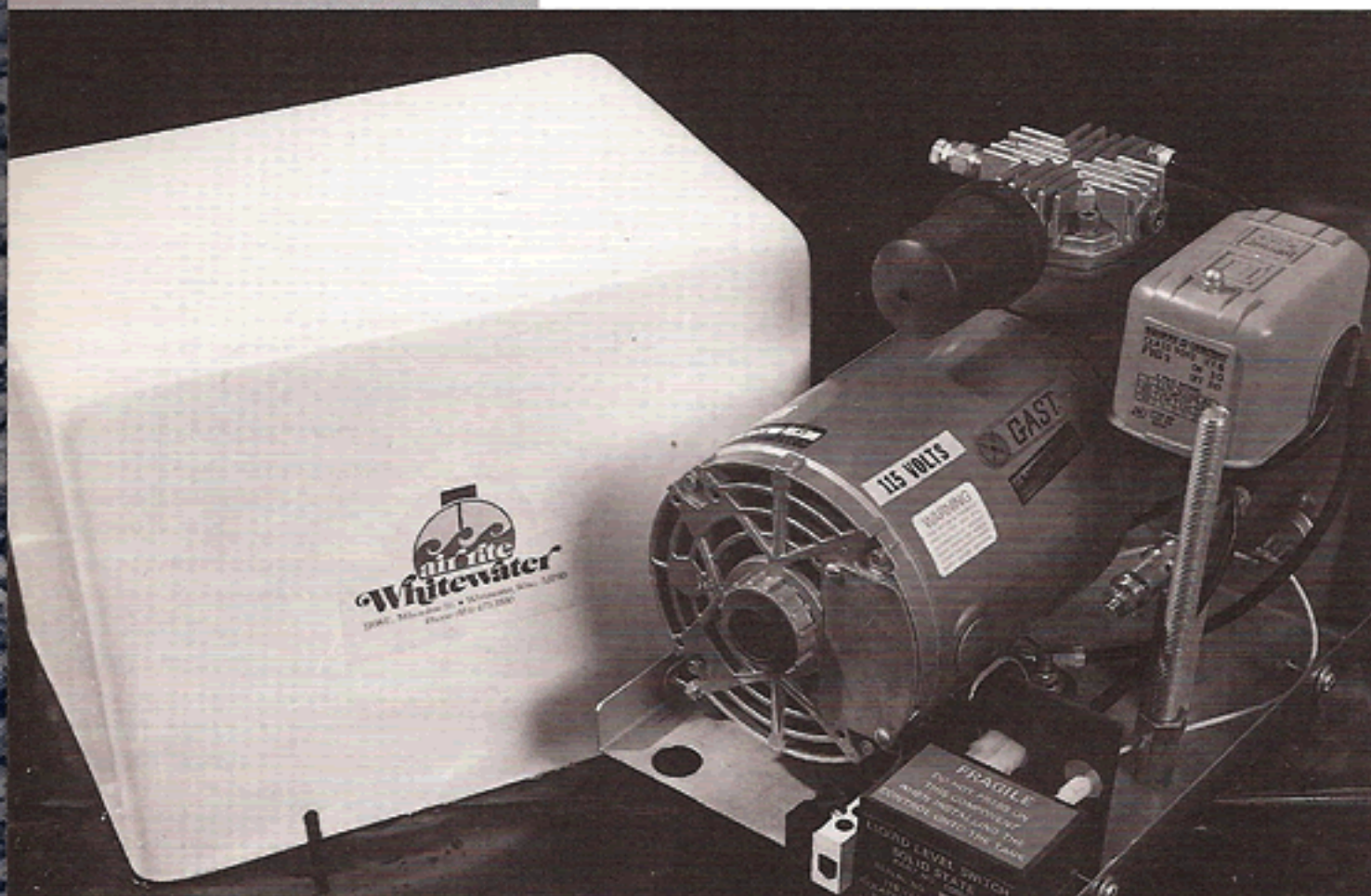
Pitless Adapter

Products and

Accessories

Air Rite

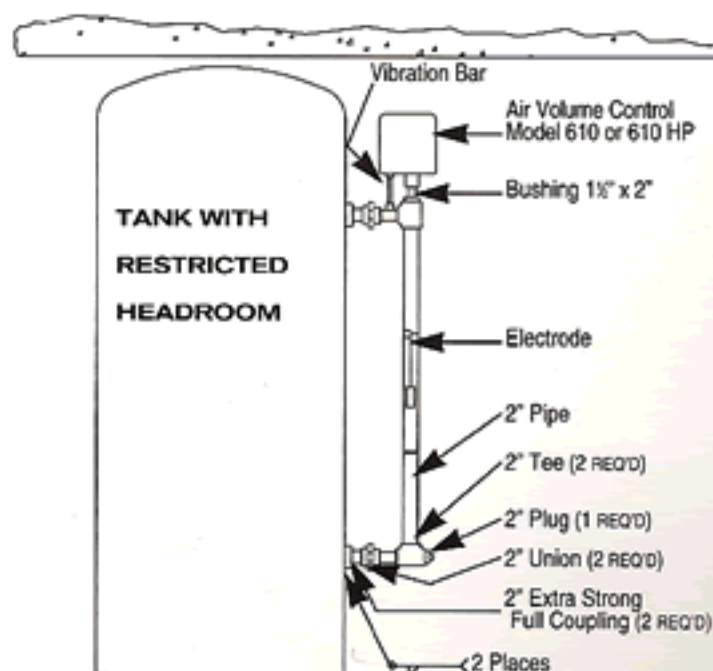
Air Volume Control



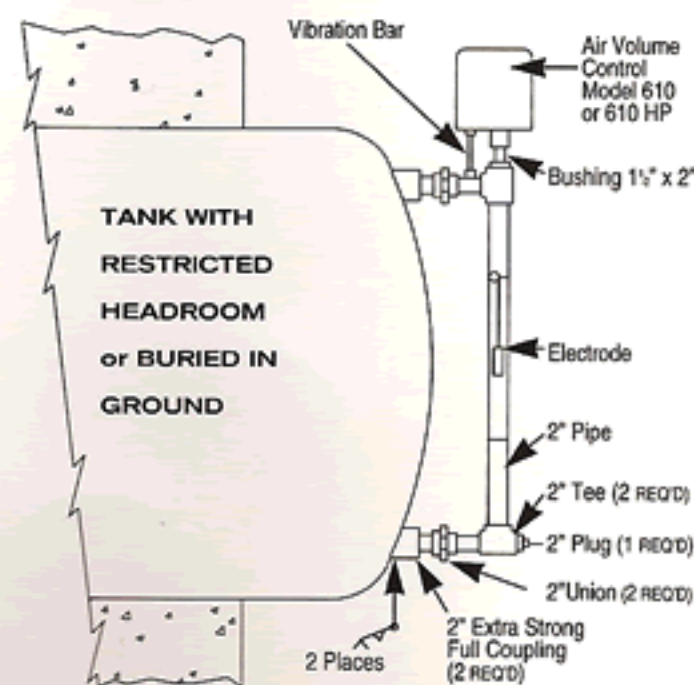
Model 610-610 HP features include:

- Solid State Liquid Level Switch with Time Delay
- Check Valve
- Fully Automatic Adjustable Pressure Switch
- Oil-less Air Compressor – 1CFM at 40 PSI
- Continuous Duty Motor with Overload Protection
- Easy Tank Mounting
- Factory Assisted Computer Calculation
- For use up to 110 PSI* up to 15,000 gal. tank*

SIDE MOUNTING ON VERTICAL TANK



END MOUNTING ON HORIZONTAL TANK



The Air Rite Air Volume Control is composed of three primary elements: the liquid level switch, the pressure switch, and the compressor. The liquid level switch senses the water level in the tank via the electrode suspended into the tank from the controls base. At the same time the pressure switch monitors the air pressure in the tank. If the water level begins to rise above the electrode and the air pressure in the tank is below the setting on the pressure switch the compressor will begin to pump air into the tank. The compressor will continue to pump air until an adequate air pressure is reached or until the water level falls below the electrode. A time delay in the liquid level prevents waves in the tank from causing rapid cycling of the compressor. Since the air in the tank is lost rather slowly by absorption into the water, the control is continuously monitoring the air charge in the tank and the optimum air charge is maintained. Continual monitoring of tank pressure is very important because pressure changes result from both air to water absorption and changing water levels.

Air Rite

Technical Data

AIR RITE CONTROL MODEL NUMBER	610***	610 HP***
Maximum Tank Size in Gallons	15,000*	15,000*
Maximum Tank Pressure in PSI	80*	110*
Operating current in amperes for 115 volt rating	3.4	3.4
Operating current in amperes for 230* volt rating	2	2
Control pressure switch factory setting in PSI (shut off)	50	80/81
Tank connector size	adjust 2"	adjust 2"
Space required over top of tank: Length x Width x Height in inches (Note: Fiberglass cover must be in place at all times — inside and out —for air movement)	10x14x17	10x14x17
Shipping wt. in lbs.	35	35

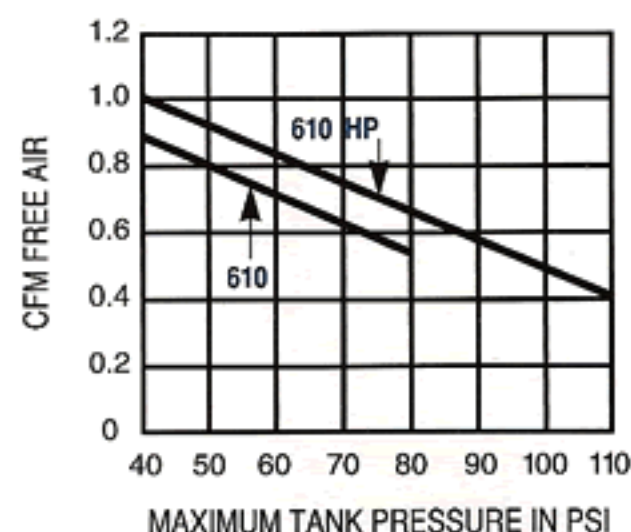
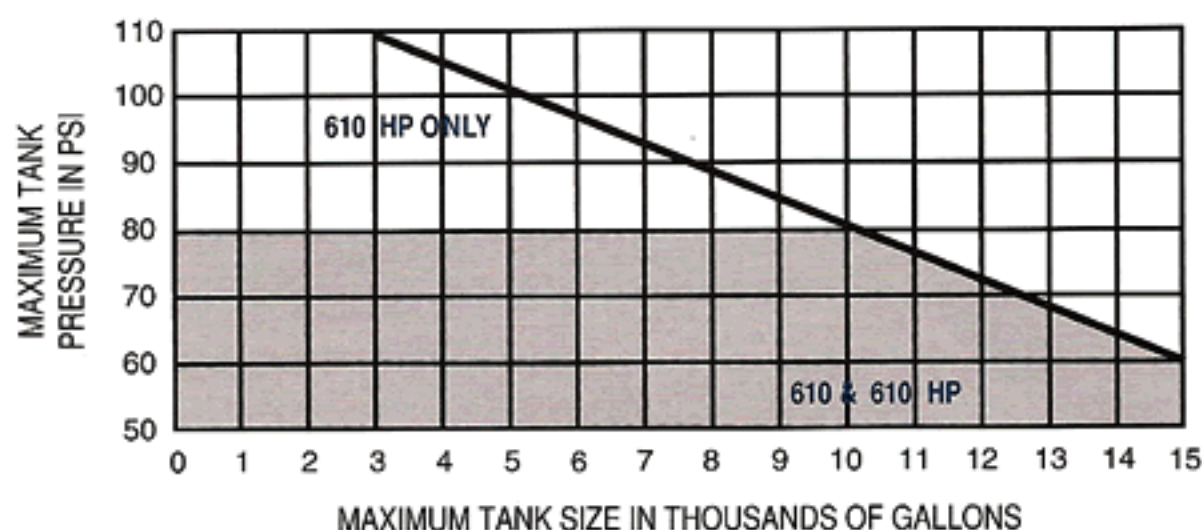
* See trade-off graph for maximum tank pressure which can be used with a particular tank size.

Min. Pressure 40 PSI for 610 HP

** Model 610 and 610 HP rated for 230 volts may also be operated at 208 volts.

*** Available, 50/60 hertz, 230 volt only

*** When ordering specify model number and voltage required, 115 volts or 230 volts. The compressors have single voltage motors. All models are single phase.



TRADE OFF GRAPH

- EXAMPLE 1:** If the water pump capacity is greater than 10% of the Tank capacity you must use a 610 HP.
- EXAMPLE 2:** A 610 can be used on a 2,000 - 10,000 gallon tank with a maximum working pressure of 80 PSI.
- EXAMPLE 3:** A 12,000 gallon tank could be operated at a pressure of up to 72 PSI - either the 610 or 610 HP would work.
- EXAMPLE 4:** If the pump must operate in the range of 80 / 100 PSI, maximum tank size is 5,300 gallons and only the 610 HP would work.

COMPRESSOR DELIVERY

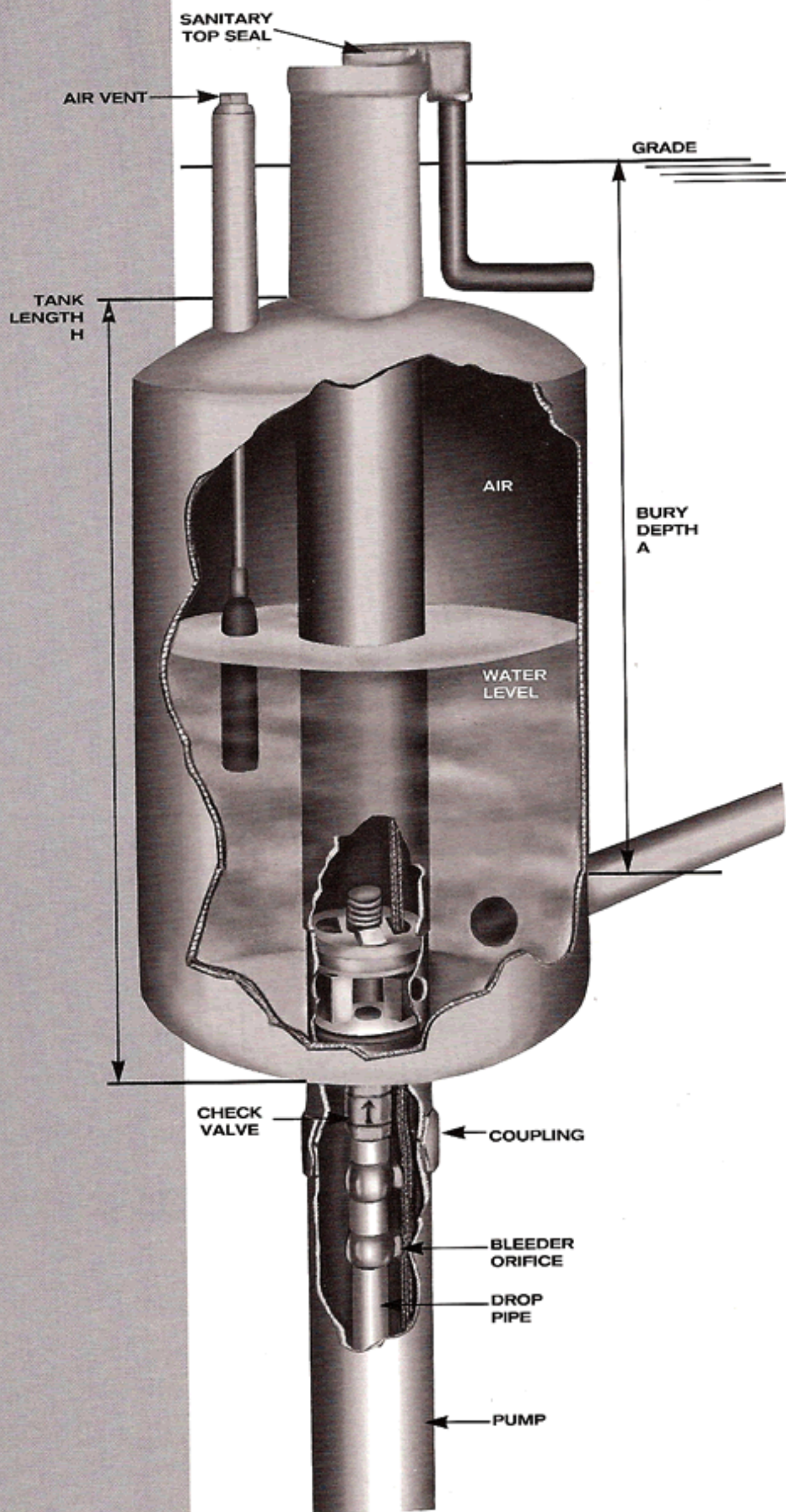
THIS DATA IS BASED UPON A DIFFERENTIAL OF 20 PSI BETWEEN WATER PUMP "START" AND "STOP" PRESSURE.

MODEL 610 has a pumping differential of 14 PSI between stop and start.

MODEL 610 HP has a pumping differential of 9 PSI between stop and start.

SPECIFY: AIR RITE AND SAVE TIME, MONEY AND WORRY. PROCUREMENT, INSTALLATION AND MAINTENANCE ARE REDUCED TO AN ABSOLUTE MINIMUM WHEN YOU USE AIR RITE AIR VOLUME CONTROLS.

Pitless Adapter Tank



When it's time to install your underground water system, begin right by installing a Whitewater Submersible Pitless Adapter Tank...you'll have one of the finest installations possible.

Expertly designed, custom crafted and built to last, the Whitewater Tank is the result of years and years of field tested experience in the Water Well Industry.

Just one of its prime features is ease of serviceability. If your submersible pump, or any part of your installation, ever needs service, you'll find it so much easier when you have a Whitewater Tank. For example, you'll never have to "dig up" your installation for pump or motor repair, air-bleeder replacement, or well screen cleaning. There's no pressure loss through topflange gaskets with Whitewater's Tank either, and the inside well diameter will never be reduced or obstructed.

Keep this advantage in mind too — the Whitewater Pitless Adapter Tank won't be located in your basement or recreation room so you'll have extra space in this area and no noise or sweating problems. And the Whitewater Tank can be installed anywhere in the U.S. because it meets all State (including Wisconsin) and federal codes and still provides a complete well balanced installation.

Sizes from 60 to 1,500 gallon.

■ The Whitewater Pitless Unit carries this seal of performance.

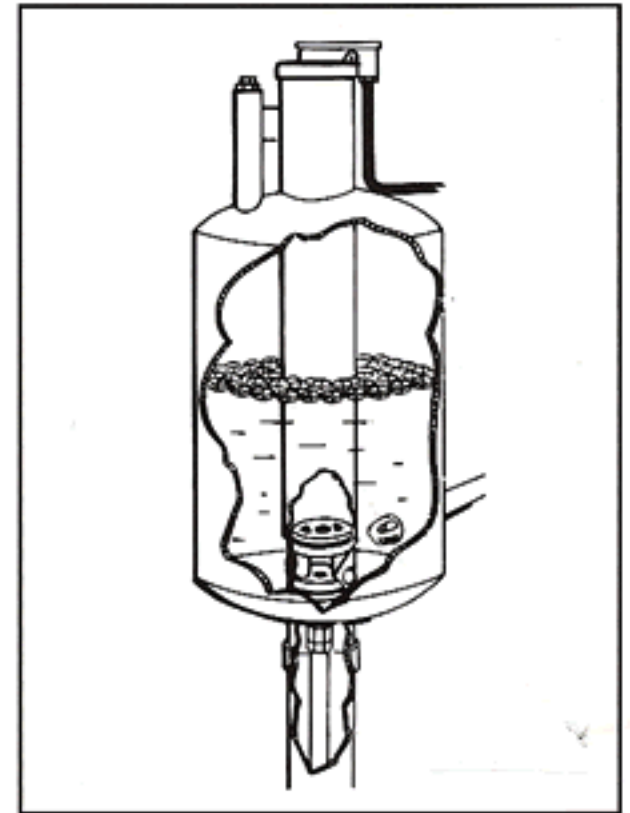


Pitless Adapter Tank

Technical Data

The method of maintaining air/water balance in the Pitless Adapter Tank are shown on the right.

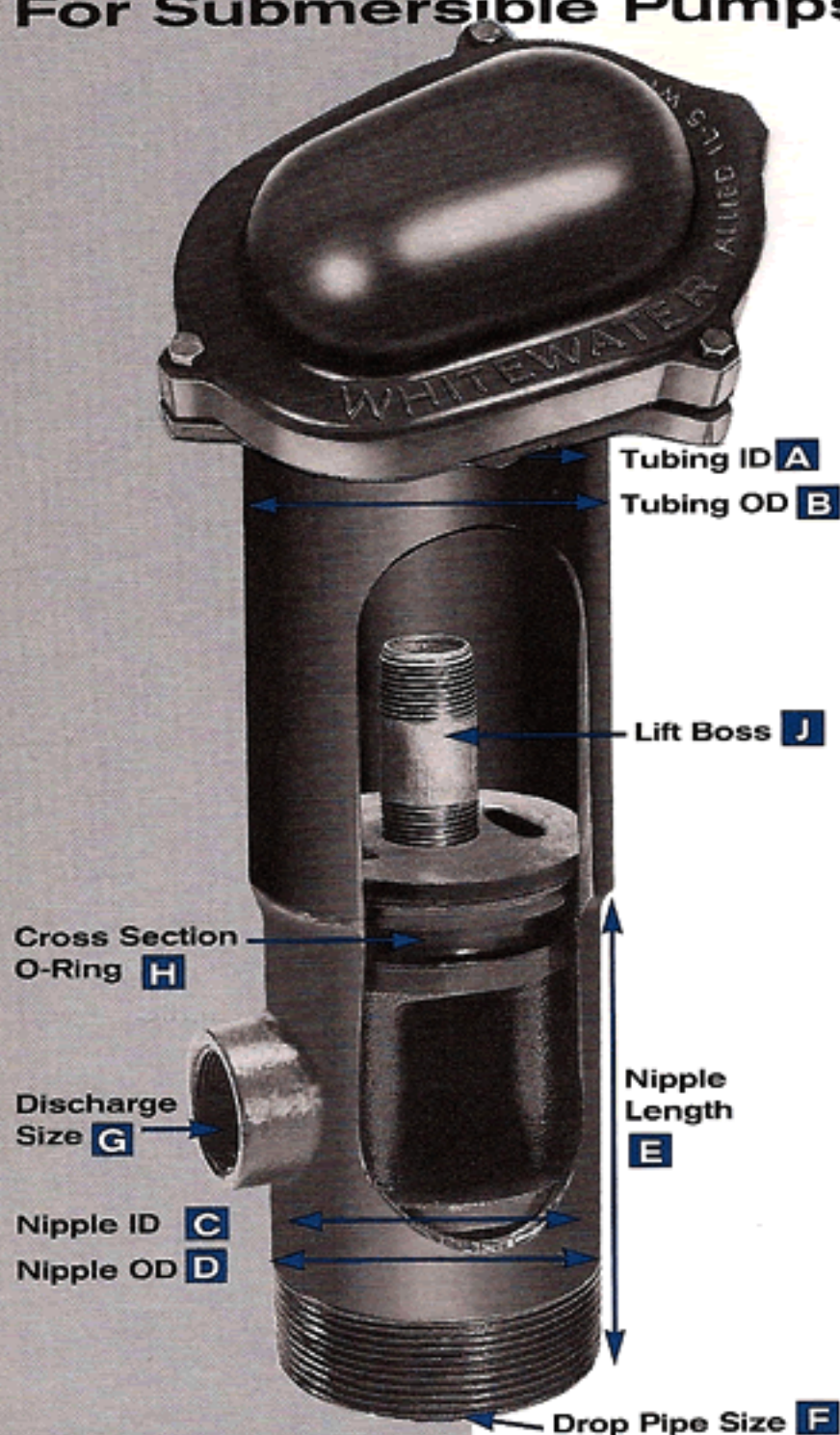
NOTE: The bury depth shown on the chart is the shortest available. Each additional foot of bury add 12" to A, D, E, G, and I. To find the overall length of the Pitless Adapter Tank, take the Bury Depth and add 1 ft., 5 inches.



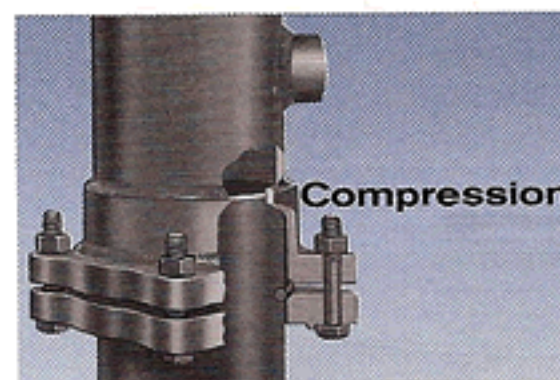
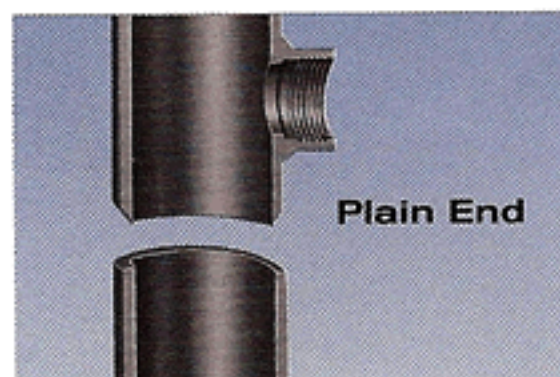
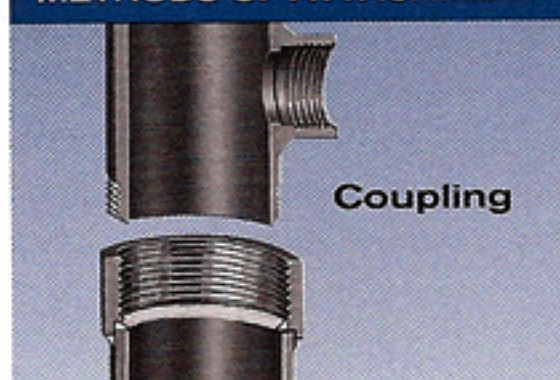
	Bury Depth A	Bleeder Distance B	Bleeder Distance C	Cut Off D	Ground Depth E	Head Size F	Over-all Length G	Tank Length H	Length 1/2" pipe I	Drop Pipe	Weight lbs.
95 Gallon	*4½'	14'	2'	67"	22"	30"	75"	41"	47"	1 ¼"	488
145 Gallon	*5½'	16'	2'	79"	16"	30"	87"	59"	51"	1 ¼"	598
260 Gallon	*6½'	18'	2'	91"	16"	36"	99"	71"	56"	1 ¼"	868
315 Gallon	*7½'	20'	2'	103 "	16"	36"	111"	83"	62"	1 ¼"	974
500 Gallon	*7½'	20'	2'	103 "	23"	48"	111"	76"	62"	2"	1386
750 Gallon	*8½'	20'	2'	115 "	20"	54"	123"	91"	65"	2"	1600
1000 Gallon	*9½'	20'	2'	127 "	18"	60"	135"	105"	70"	2"	1800
1500 Gallon	*12½'	20'	2'	163 "	18"	60"	171"	141"	88"	2"	2400

Pitless Adapters and Units

For Submersible Pumps



METHODS OF ATTACHMENT



The Whitewater Pitless Unit is an all steel and welded assembly. Each unit is carefully hand crafted by skilled welders at the Whitewater plant. The result is a unit of tremendous strength without excess weight.

The packer comes with "O" rings to provide both a positive water seal and a method to effectively divert water to the horizontal pressure line. This unit can be easily removed for any pump or well work that might be needed in the future.

The Whitewater Pitless Unit is available in a full range of standard sizes from 4" through 20", each with a male threaded bottom. An optional attachment with either a compression fitting or a plan end fitting for welding is available.

The No. 400 Ventilated Seal is standard with the model 52 pitless unit, but the No. 100 ventilated and No. 200 and No. 300 Watertight Seals are also available.

This versatile unit can be supplied for **flowing wells**, low-producing wells or nearly any other application required.

OVERALL LENGTH OF PITLESS UNITS

SU - 4", 5" & 6"	Bury Depth Plus 12"
SU - 8" & 10"	Bury Depth Plus 12"
SU - 12"	Bury Depth Plus 12"
SU - 16"	Bury Depth Plus 12"
SU - 20"	Bury Depth Plus 12"

SUBMERSIBLE TABLE (All dimensions in inches)

	A	B	C	D	E	F	G	H	J
SU - 4	4 1/2	5	4.026	4.500	6	1 1/4	1 1/4	3/4	1
SU - 5	5 1/2	6	5.047	5.563	6	1 1/4	1 1/4	3/4	1 1/4
SU - 6	6 1/2	7	6.065	6.625	6	1 1/4	1 1/4	3/4	1 1/4
SU - 8	8 1/2	9	8.071	8.625	10	3	3	1	3
SU - 10	10 1/2	11 1/4	10.136	10.750	12	5	5	1 1/4	5
SU - 12	12 1/2	13 1/4	12.090	12.750	14	6	6	1 1/4	6
SU - 16	16 1/2	17 1/4	15.250	16	23	8	8	1 1/4	8
SU - 20	20 1/2	21	19.250	20	26	10	10	1 1/4	10

F & G are standard drop and discharge sizes. Please specify if other sizes are wanted

DROP & DISCHARGE SIZES AVAILABLE

4"	1 1/4"*
5"	1 1/4"*, 1 1/2"
6"	1 1/4"*, 1 1/2", 2"
8"	3"**, 4"***
10"	5"***
12"	6"***
16"	8"***
20"	10"***

* STD
** Extra Charge
*** Max. Size Available

Compression Fitting (CF) Available in 4", 5", & 6" sizes for fast and convenient installations. Model 52

Approved by State of Wisconsin
Illinois Approved Model Available

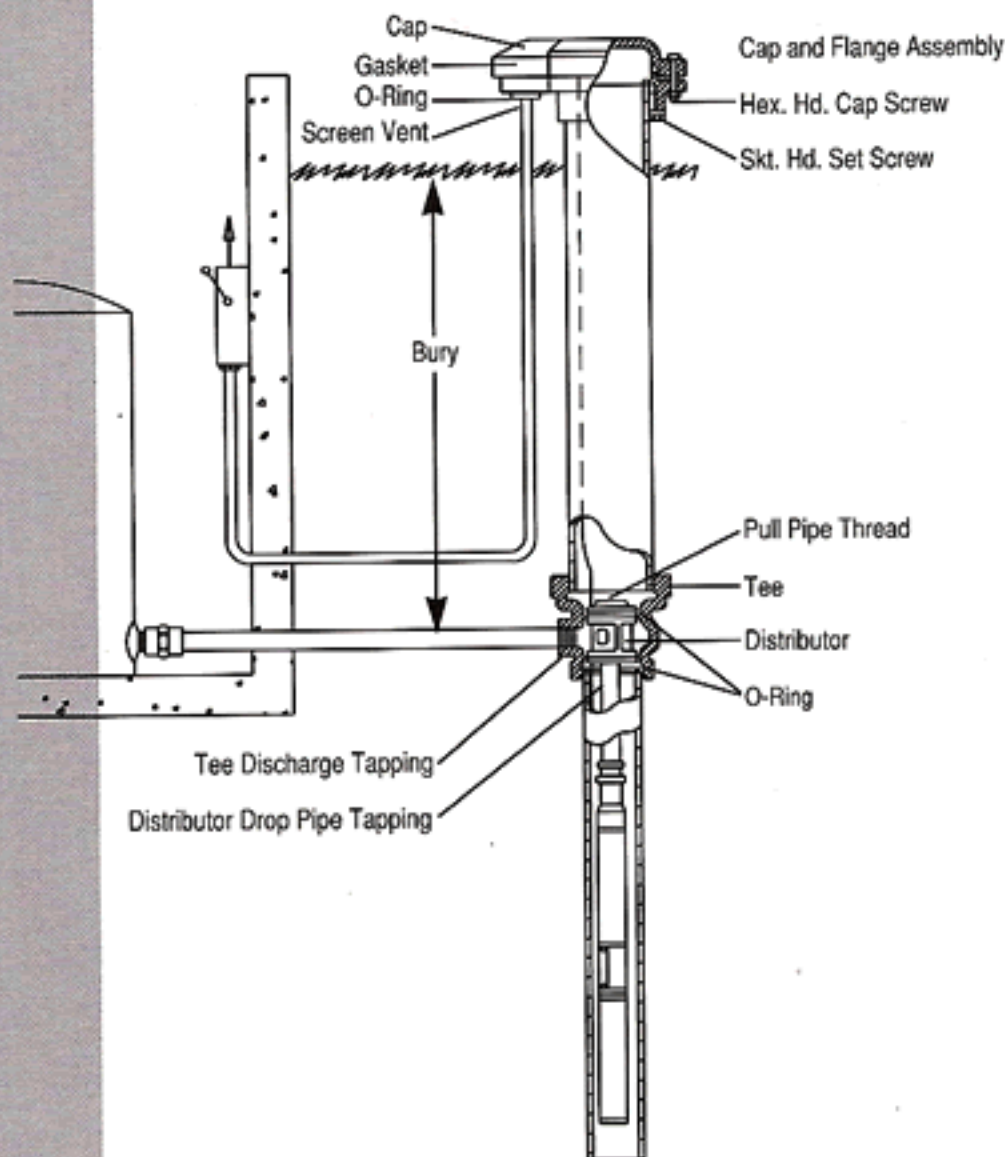


Duplex Pitless

Underground Discharge Unit (for use with Submersible Pumps)

TYPE 1060 SUB and 1060 SUB CA

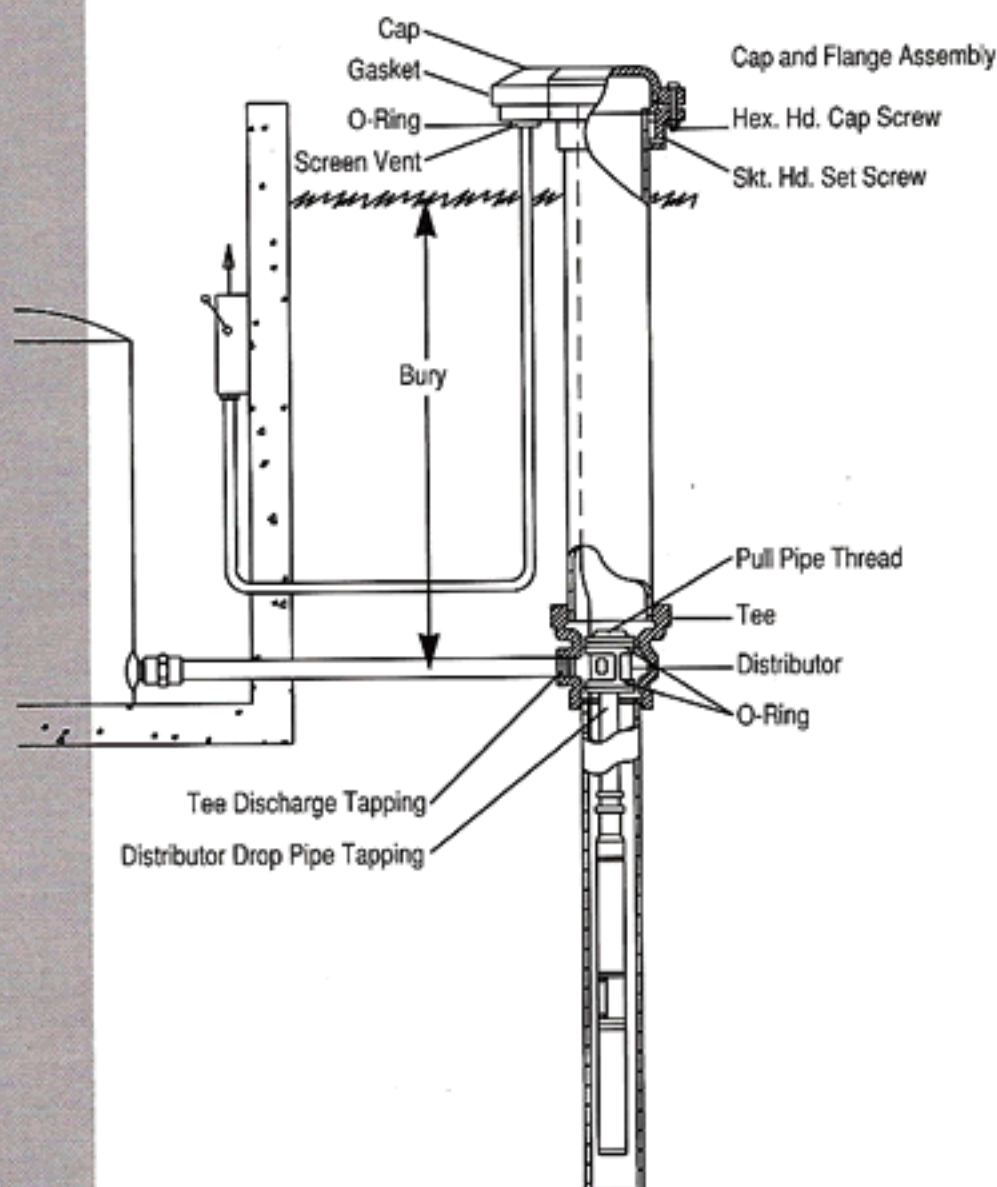
1060 SUB 4 x 2



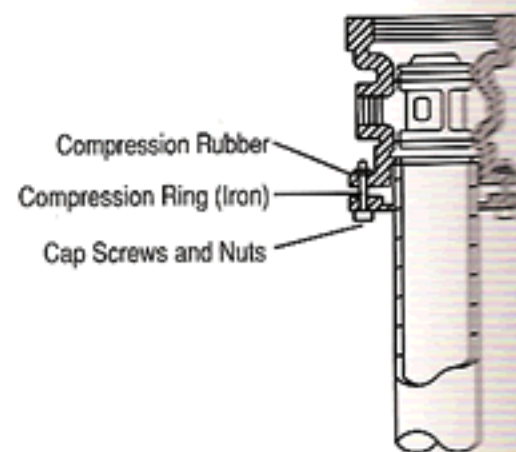
A Duplex Pitless Unit offers approved, sanitary, frostproof protection of the underground discharge line from a water well and still allows the convenience of pulling internal well parts without disturbing underground connections. A model of the same diameter as the well, or larger, should be used so as not to restrict the well opening.

The Duplex Pitless meets standards established by the United States Public Health Service as well as standards established by state Boards of Health.

1060 SUB 6 x 3



1060 SUB - CA



Duplex Pitless

Type 1060 SUB and 1060 SUB CA

TYPE 1060 SUB & 1060 SUB CA				ORDER BY UNIT NUMBER, NAME AND BURY LENGTH			
Model Number	Adapter Type	Well Size	Tee Disch. Tapping	Dist.Drop Pipe Tapping	Pull Pipe Thread	Bury Length	Approx. Weight
701010 HCT	1060 SUB 4	4"	1½	1½	1	3 ft.	110
						4 ft.	125
						5 ft.	140
						6 ft.	155
						7 ft.	170
Tapped for attachment to 4" standard pipe well casing.							
701010 JET	1060 SUB 5	5"	2	2	1 ½	3 ft.	139
						4 ft.	158
						5 ft.	177
						6 ft.	196
						7 ft.	215
Tapped for attachment to 5" standard pipe well casing.							
701010 KET	1060 SUB 6	6"	2	2	1 ½	3 ft.	159
						4 ft.	177
						5 ft.	195
						6 ft.	213
						7 ft.	231
Tapped for attachment to 6" standard pipe well casing.							
701010 HCC	1060 SUB 4CA	4"	1½	1½	1	3 ft.	120
						4 ft.	135
						5 ft.	150
						6 ft.	165
						7 ft.	180
*Compression type adapter unit for attachment to 4" standard pipe casing.							
701010 JEC	1060 SUB 5CA	5"	2	2	1 ½	3 ft.	150
						4 ft.	169
						5 ft.	188
						6 ft.	207
						7 ft.	226
*Compression type adapter unit for attachment to 5" standard pipe casing.							
701010 KEC	1060 SUB 6CA	6"	2	2	1 ½	3 ft.	172
						4 ft.	190
						5 ft.	208
						6 ft.	226
						7 ft.	244
*Compression type adapter unit for attachment to 6" standard pipe casing.							

TYPE 1060 SUB 4 x 2 & 1060 SUB 6 x 3	ORDER BY UNIT NUMBER, NAME AND BURY LENGTH
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for use with High Capacity Submersible Pumps

The 1060 SUB 4 x 2 models for 4" wells make provision for 2" water delivery pipes which have a capacity of 1.9 times that of 1 ½" pipes.

The 1060 SUB 6 x 3 models for 6" wells make provision for 3" water delivery pipes which have a capacity of 2.7 times that of 2" pipes.

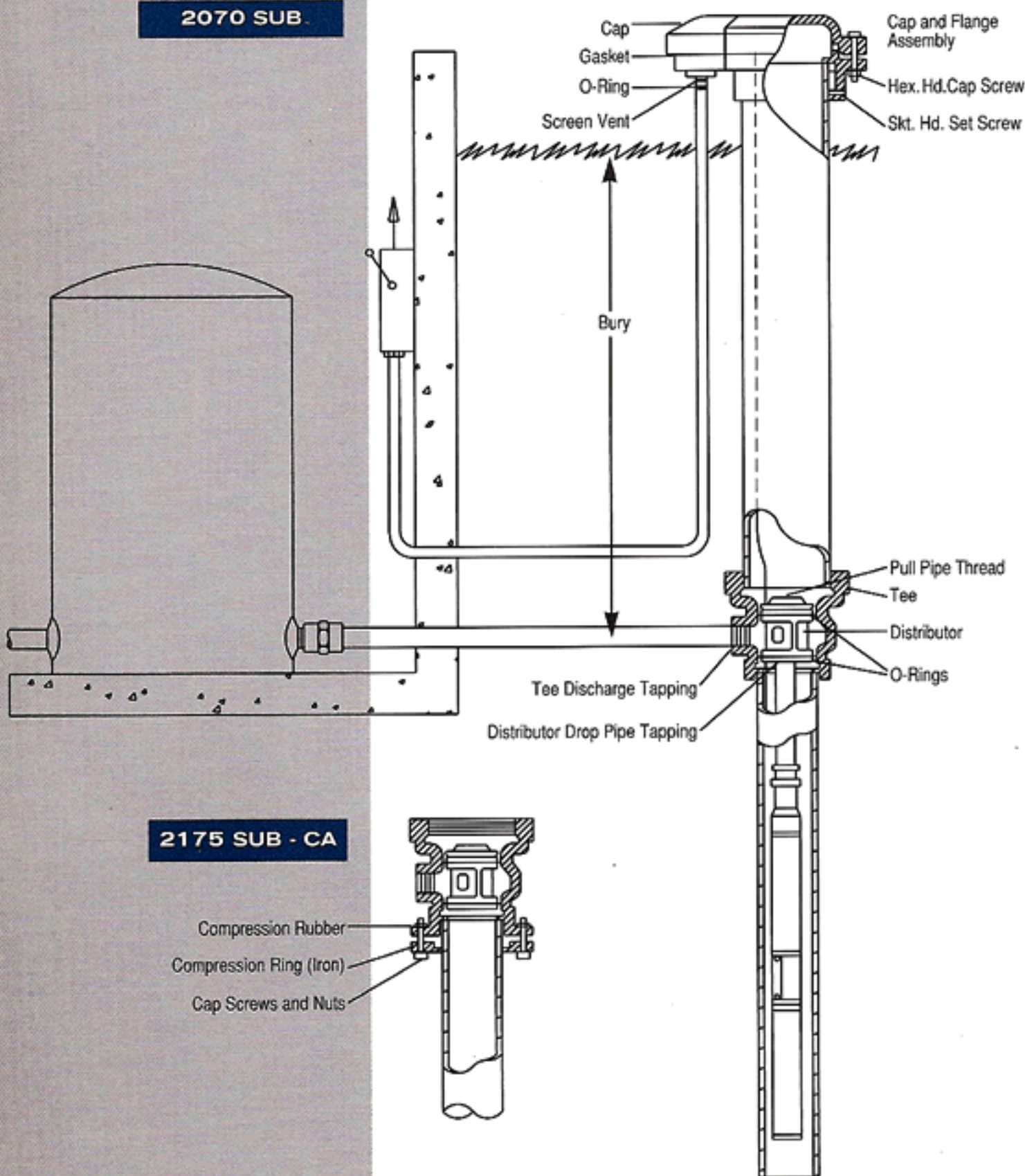
701020 HET	1060 SUB 4 x 2	4"	2	2	1 ½	3 ft.	108
						4 ft.	123
						5 ft.	138
						6 ft.	153
						7 ft.	168
Tapped for attachment to 4" standard pipe well casing.							
701020 KFT	1060 SUB 6 x 3	6"	3	3	1 ½	3 ft.	166
						4 ft.	184
						5 ft.	202
						6 ft.	220
						7 ft.	238
Tapped for attachment to 6" standard pipe well casing.							

Duplex Pitless

Underground Discharge Unit (for use with Submersible Pumps)

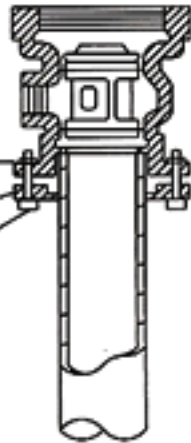
TYPE 2070 SUB and 2175 SUB CA

2070 SUB



2175 SUB - CA

Compression Rubber
Compression Ring (Iron)
Cap Screws and Nuts



A Duplex Pitless Unit offers approved, sanitary, frostproof protection of the underground discharge line from a water well and still allows the convenience of pulling internal well parts without disturbing underground connections. A model of the same diameter as the well, or larger, should be used so as not to restrict the well opening.

The Duplex Pitless meets standards established by the United States Public Health Service as well as standards established by state Boards of Health.

Features include:

- Tee has pressure groove on well attachment end connected to system pressure.
- Built -in distributor spool guide and support for easy installation.
- Distributor spool tapped for lifting pipe attachment.
- Oversize pitless pipe for easy withdrawal of well parts.
- Factory assembled and tested.
- Units have treadless watertight well cap with O-Ring Seal.
- Meets Illinois Water Well Code.

Duplex Pitless

Type 2170 SUB and 2175 SUB CA

TYPE 2070 SUB & 2175 SUB CA

ORDER BY UNIT NUMBER, NAME AND BURY LENGTH

Model Number	Adapter Type	Well Size	Drop Pipe Discharge Tapping	Pull Pipe Thread	Bury Length	Approx. Weight
701030 HCT	2070 SUB 4	4"	1½	1	3 ft.	110
Tapped for attachment to 4" standard pipe well casing.					4 ft.	125
					5 ft.	140
					6 ft.	155
					7 ft.	170
701030 JET	2070 SUB 5	5"	2	1 ½	3 ft.	139
Tapped for attachment to 5" standard pipe well casing.					4 ft.	158
					5 ft.	177
					6 ft.	196
					7 ft.	215
701030 KET	2070 SUB 6	6"	2	1 ½	3 ft.	159
Tapped for attachment to 6" standard pipe well casing.					4 ft.	177
					5 ft.	195
					6 ft.	213
					7 ft.	231
701031 HCC	2175 SUB 4CA	4"	1½	1	3 ft.	127
*Compression type adapter unit for attachment to 4" standard pipe casing.					4 ft.	142
					5 ft.	156
					6 ft.	171
					7 ft.	186
701031 JEC	2175 SUB 5CA	5"	2	1 ½	3 ft.	170
*Compression type adapter unit for attachment to 5" standard pipe casing.					4 ft.	142
					5 ft.	156
					6 ft.	171
					7 ft.	186

BURY LENGTH = The distance from established ground level to underground discharge opening. Duplex Pitless Units permit a 12 inch extension above ground level with bury as given.

CHANGES = We reserve the right to make any changes in detail on our goods which may, in our opinion, develop an improvement or gain convenience for the operator, without reference to descriptions and illustrations on this page.

CAUTION = Not recommended for flowing wells or wells in which the static level of the water is above the frost line.

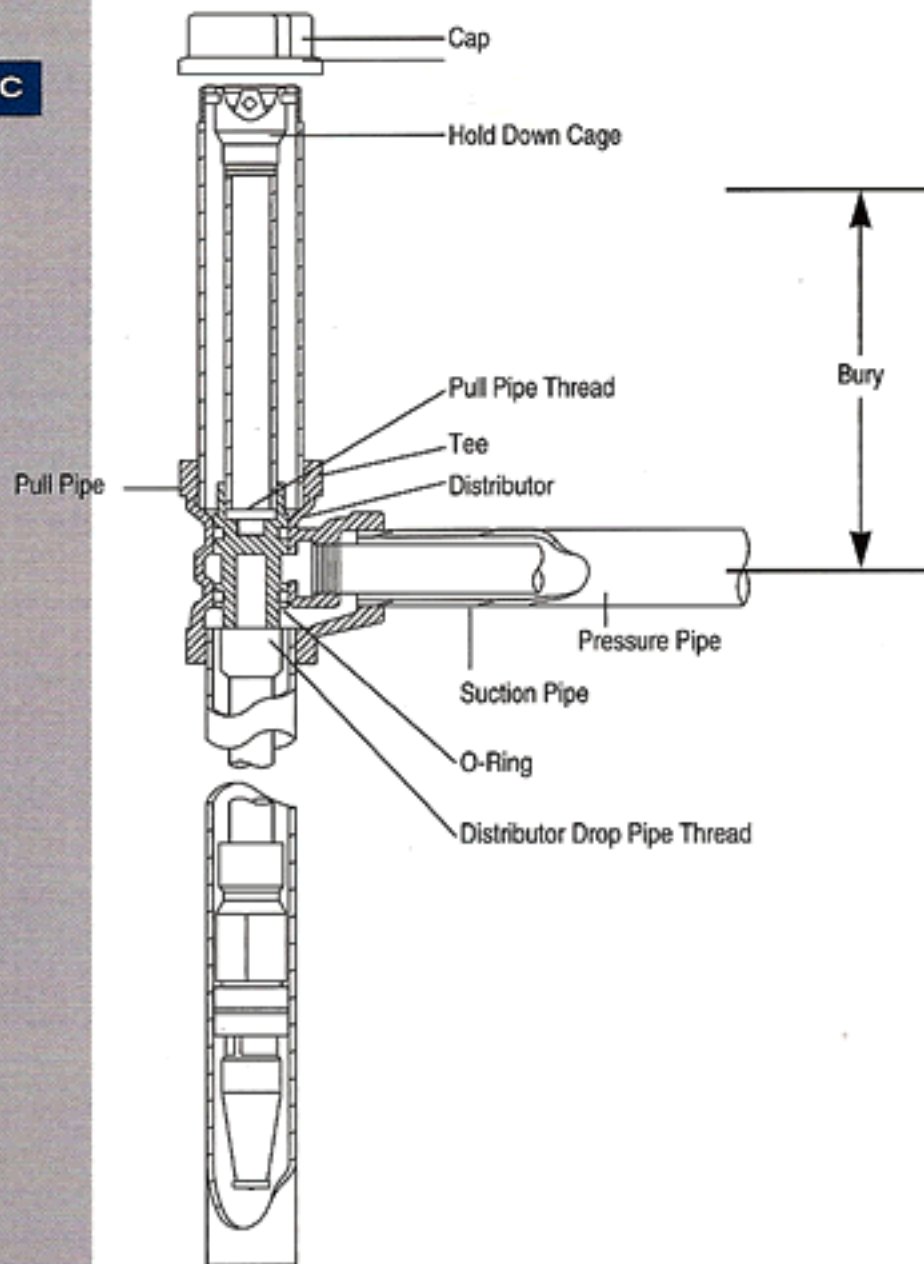
Prices and specifications subject to change without notice.

Duplex Pitless

Shallow Well-Concentric, Single Pipe Packer-Concentric & Parallel

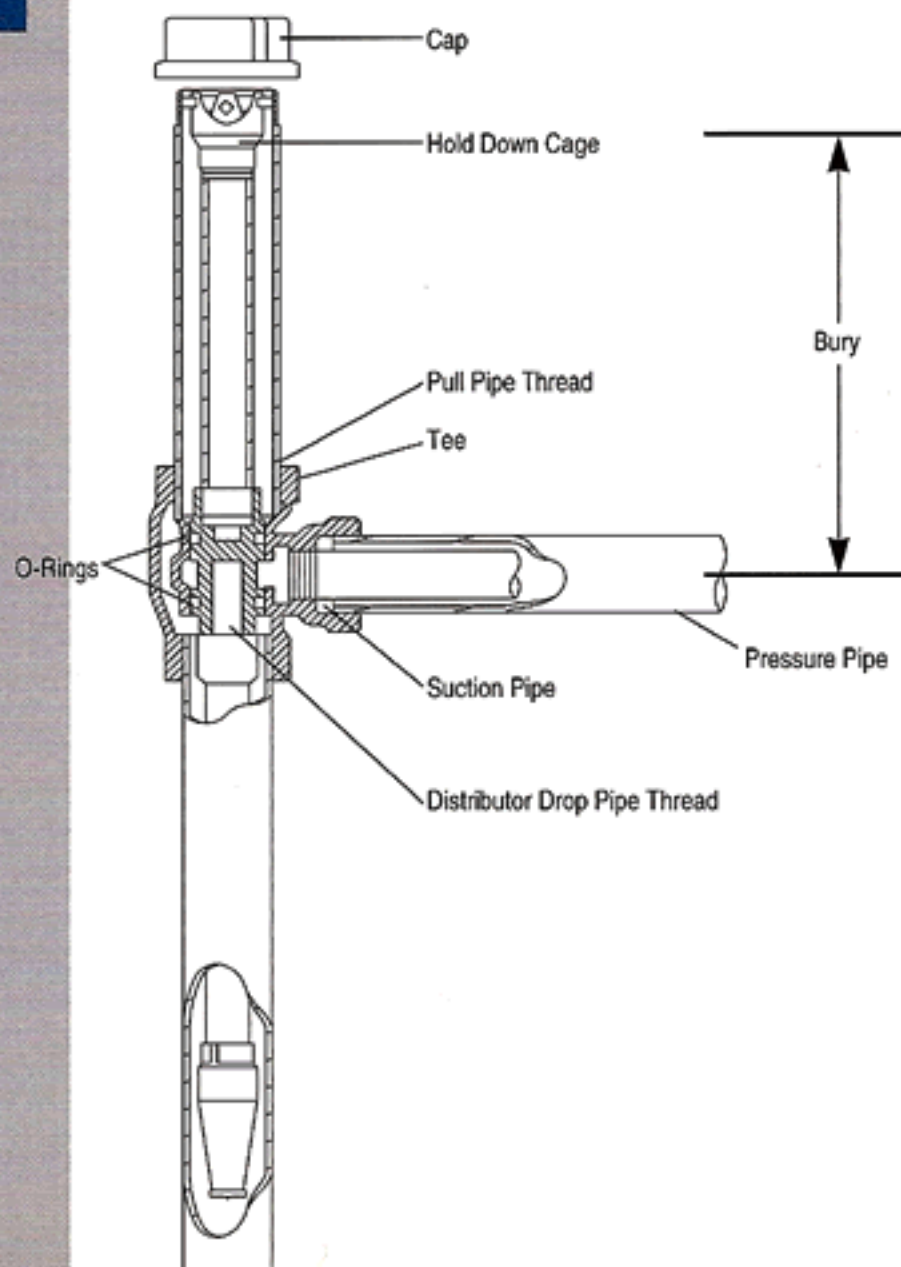
TYPE 1060 SW, 1060 PJ-C, and 1060 PJ-P

1060 PJ-C

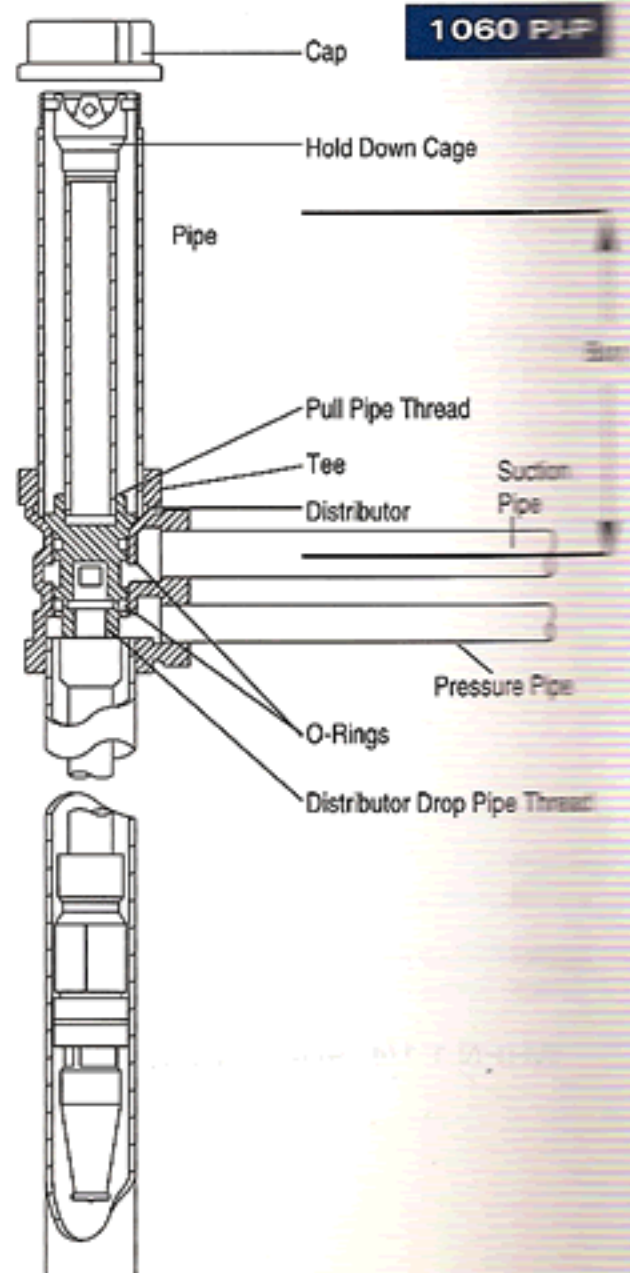


1060 PJ models are offered in this series to provide for attachment to 2", 2 1/2", or 3" standard steel pipe casing. A model of the same diameter as the well, or larger, should be used so as not to restrict the well opening. Such a restriction makes well repair work difficult and will not be approved in Wisconsin or meet the requirements of many other codes. (Units have pull pipe included, except for shallow well.)

1060 SW



1060 PJ-P



Duplex Pitless

Type 1060 SW, 1060 PJ-C, and 1060 PJ-P

TYPE 1060 SW, 1060 PJ-C and 1060 PJ-P

ORDER BY UNIT NUMBER, NAME AND BURY LENGTH

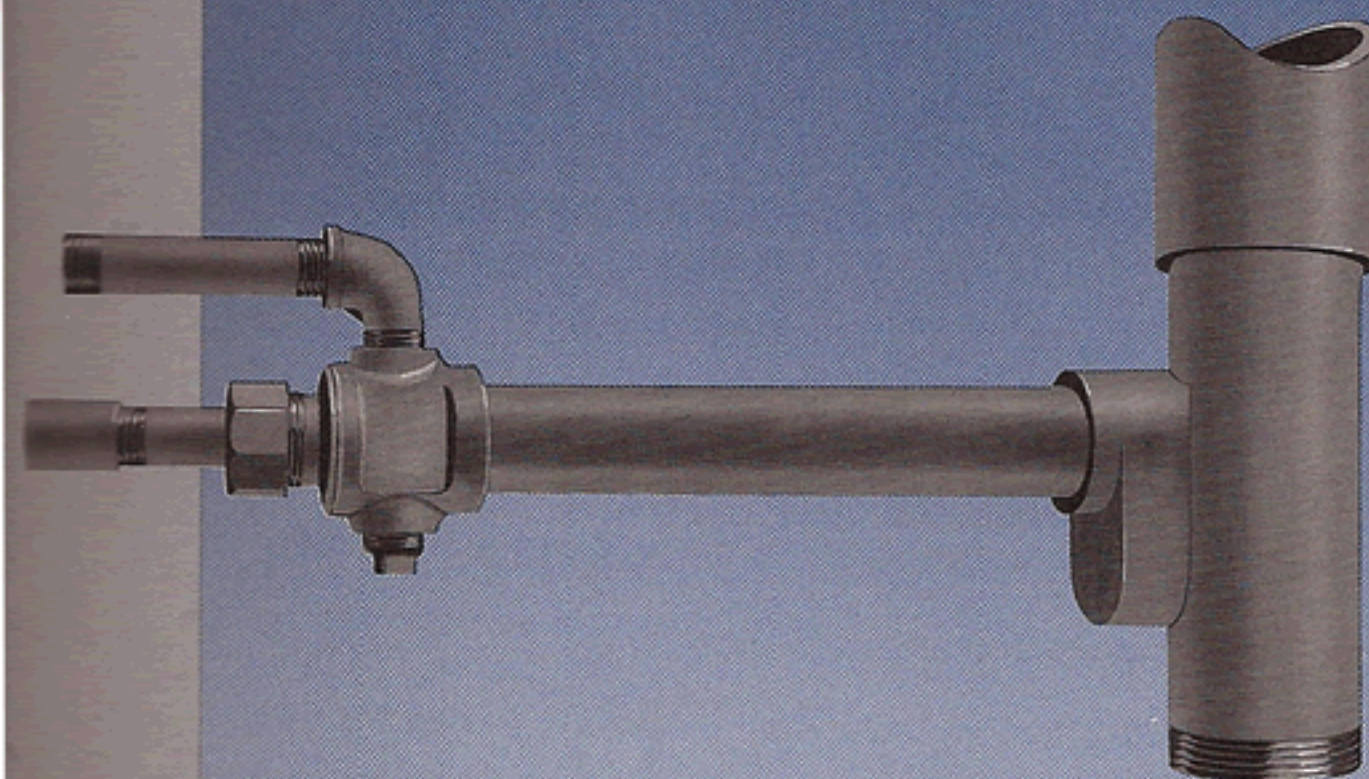
	Model Number	Adapter Type	Well Size	Distributor Drop Pipe	Tee Discharge Tappings		Pull Pipe Thread	Bury Length	Approx. Weight
					Suction (Inside)	Pressure (Outside)			
SHALLOW WELL	702050 ABT	1060 SW2-1 1/4"	2"	1 1/4" Male*	1 1/4"	2	1	3 ft.	38
								4 ft.	44
								5 ft.	50
								6 ft.	56
								7 ft.	62
SINGLE PIPE CONCENTRIC	703050 ABT	1060 PJ2C-1 1/4"	2"	1 1/4" Male*	1 1/4"	2	1	3 ft.	44
								4 ft.	51
								5 ft.	58
								6 ft.	65
								7 ft.	72
	703050 ECT	1060 PJ3C	3"	1 1/2"	1 1/4"	2 1/2"	1 1/2"	3 ft.	74
								4 ft.	86
								5 ft.	98
								6 ft.	110
								7 ft.	122
SINGLE PIPE PARALLEL	704050 ABT	1060 PJ2P-1 1/4"	2"	1 1/4" Male	1 1/4"	1	1	3 ft.	41
								4 ft.	48
								5 ft.	55
								6 ft.	62
								7 ft.	69
	704050 ECT	1060 PJ3P	3"	1 1/2"	1 1/4"	1 1/2"	1 1/2"	3 ft.	71
								4 ft.	83
								5 ft.	95
								6 ft.	107
								7 ft.	119

* WHEN 1 1/4" SUCTION IS USED INSIDE 2" PIPE, 1 1/4" THIN WALL TURNED COUPLINGS MUST BE USED. (PN 129205)

Pitless Units

For Jet Pumps

CONCENTRIC PIPING



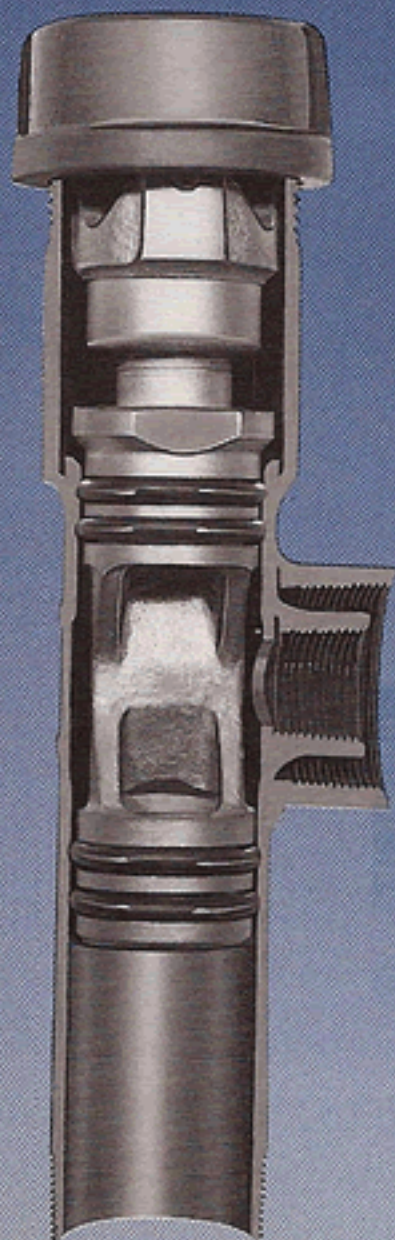
The Pitless Unit for Jet Pumps provides a special well casing extension from below the frostline, where it is permanently buried, to above ground.

Shallow wells, single-pipe packer jets: Whitewater has a custom crafted Pitless Unit for each.

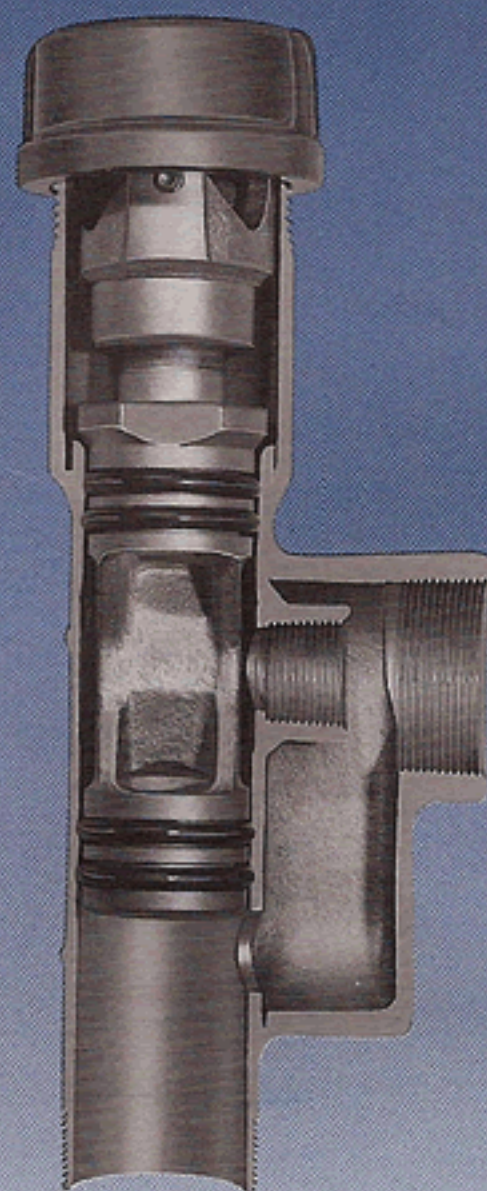
The Whitewater Suction Shallow Well Unit is used in conjunction with shallow well jet pumps. These units are available in parallel and concentric piping to fit 2" wells.

The Whitewater 1-Pipe and Packer Jet Unit is used with packer jet pumps. They may be ordered in either parallel or concentric piping to fit 2" wells.

WHITEWATER SUCTION SHALLOW WELL UNIT



WHITEWATER 1-PIPE or JET PACKER UNIT



Ventilated and Watertight Seals

No. 100 SEAL

DISCONTINUED

A durable cast iron ventilated well cap with integral conduit box. Order a minimum quantity and we will personalize each one with your company name at no charge. Available in well sizes 4" through 20". Available with stainless steel vent.

Approved for use in Michigan.

No. 200 SEAL

DISCONTINUED

This well cap has a heavy neoprene gasket on the inside of a durable cast iron exterior. The No. 200 seals on the inside diameter of wells and also has an integral conduit box. It meets code requirements for watertight seals and can also be personalized with your company name when you order a minimum quantity. Available in well sizes 4" through 20".

Approved for use in Michigan and Wisconsin.

No. 300 SEAL



The No. 300 incorporates the latest design features in well caps including the screened well vent. The new No. 300 also meets all code requirements for watertight seals including Illinois code. Available in 4", 5" and 6" pipe sizes and 4", 5" and 6" O.D. tubing sizes.

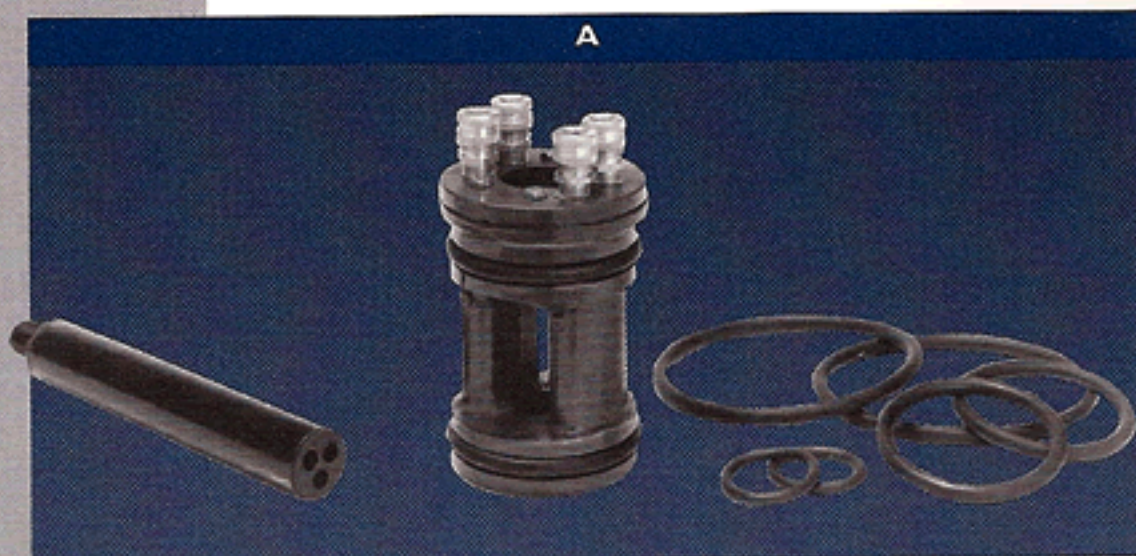
Approved for use in Michigan, Illinois, Wisconsin, Nebraska and Iowa.

No. 400 SEAL

DISCONTINUED

The newest aluminum well cap. The No. 400 seal has been designed as a one piece cap and comes in two different sizes. Model 4004 fits 4", 4 1/2" and 5" O.D. wells. Model 4006 fits 6", 6 1/2" and 7" O.D. well sizes. The 400 can also be personalized with your company name when you place a minimum order. Ventilated.

Accessories

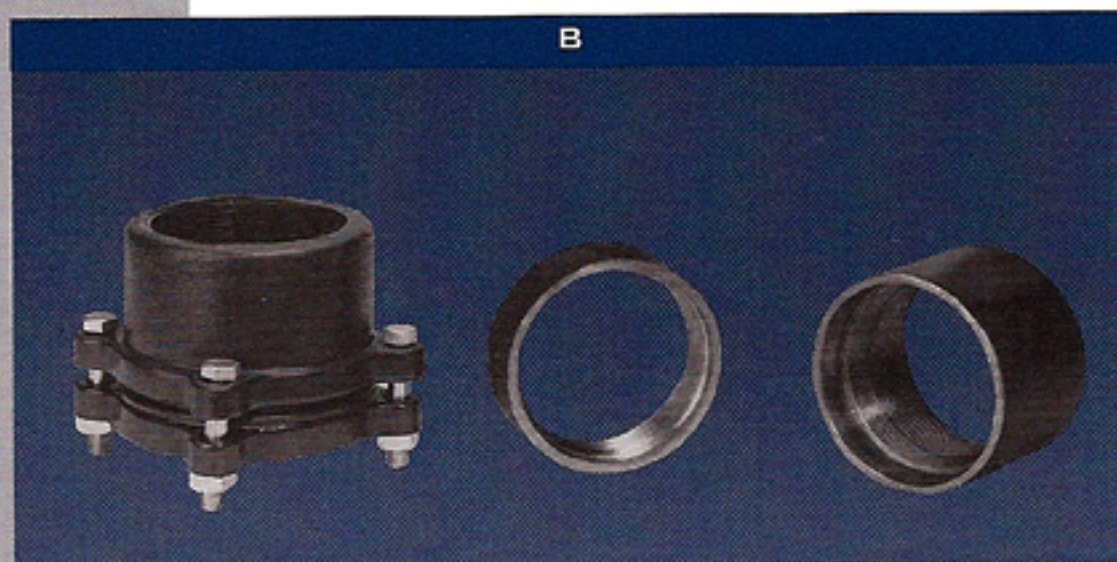


A From left to right:

Unloading Air Control (AVC) — for venting excess air to atmosphere in horizontal or vertical tanks.

Flowing Well Packer Kit — for converting a model 52 pitless to a flowing well unit. Includes spool, O-rings, cable seals, snifter vent valve.

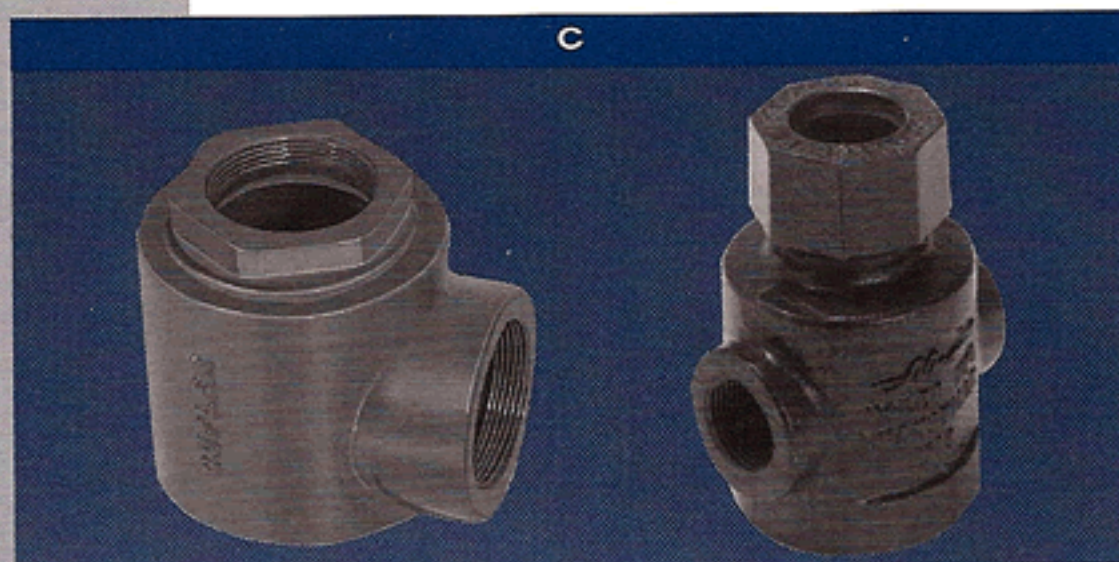
O-rings — for all Whitewater submersible and jet pitless adapters and units from 2" through 20"



B From left to right:

Compression Coupling has a threaded top and a heavy compression bottom — 4", 5" and 6" sizes.

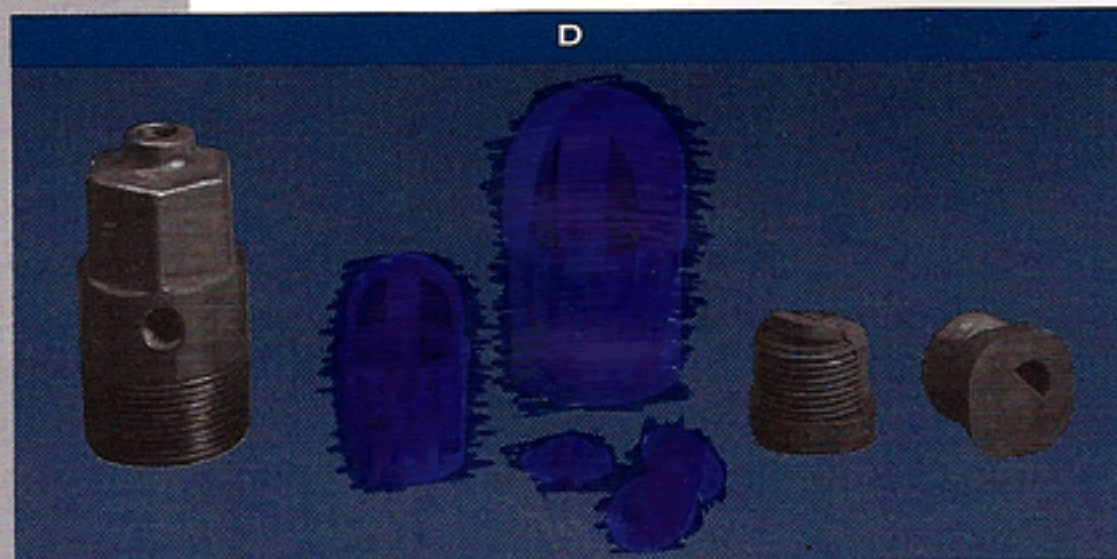
Full Weld Thread Coupling/ Wisconsin Code. One half weld thread coupling comes in a range of sizes.



C From left to right:

Box Elbow and Combination Cross

These are all special pipe fittings custom designed for use in concentric pipe installations.



D From left to right:

Vent Plug — Optional vent plugs are available to match tank and method of control. Can be tapped for switch, gauges, snifter valve, etc. No. 349 and No. 352 designed for use with stars or float. No. 350 and No. 351 designed for use with air volume control (AVC).

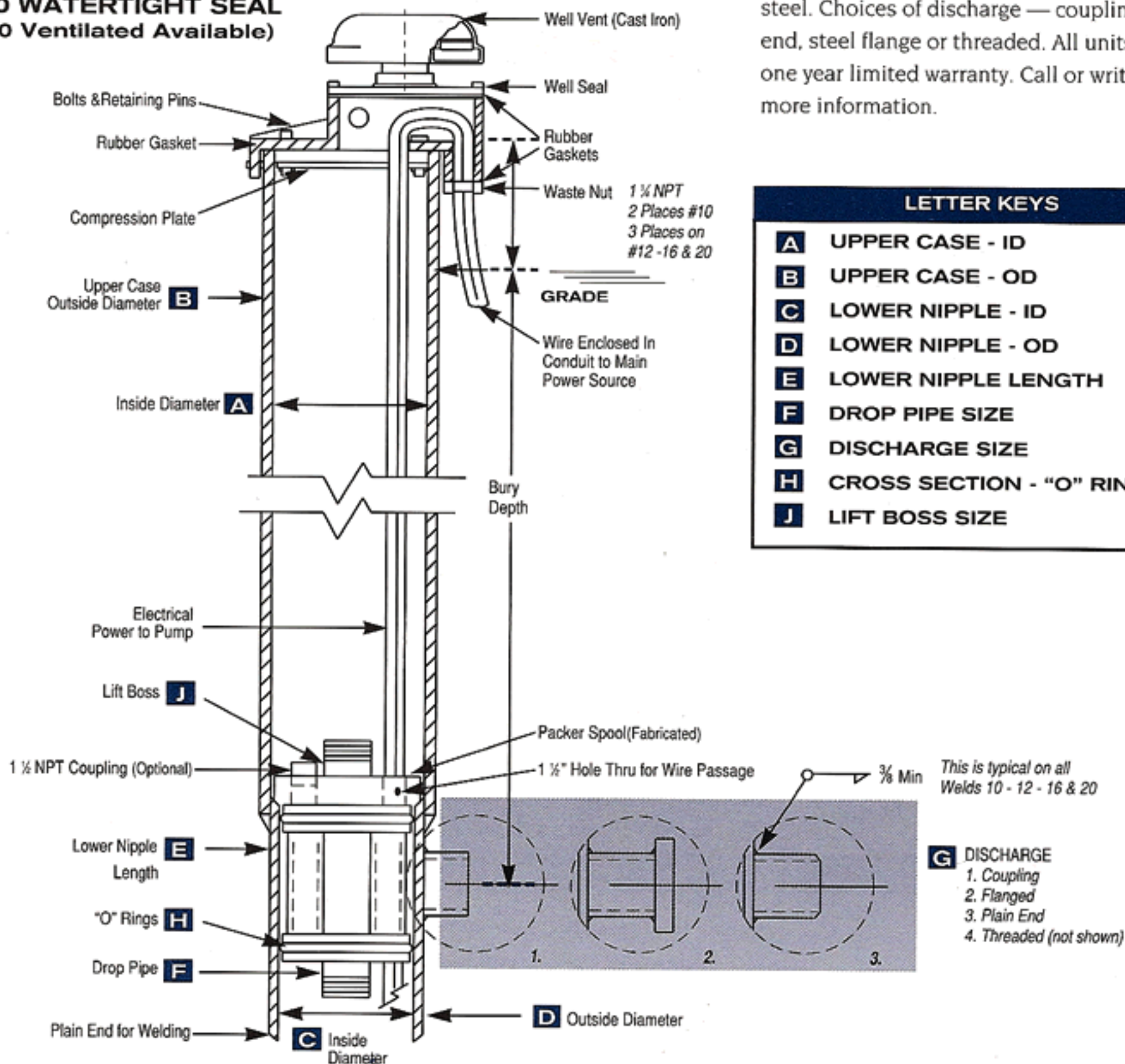
Bleeders — A non corrosive, fast bleedback rubber bleeder for use in drain-back systems. 1" only.

Industrial Pitless Units

For 8", 10", 12", 16" and 20" Wells

INDUSTRIAL UNIT

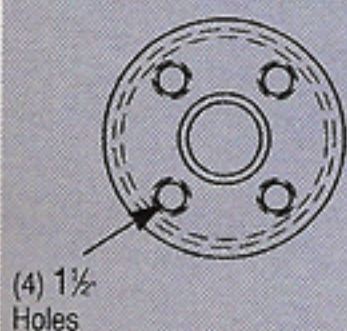
200 WATERTIGHT SEAL
(100 Ventilated Available)



LETTER KEYS

A	UPPER CASE - ID
B	UPPER CASE - OD
C	LOWER NIPPLE - ID
D	LOWER NIPPLE - OD
E	LOWER NIPPLE LENGTH
F	DROP PIPE SIZE
G	DISCHARGE SIZE
H	CROSS SECTION - "O" RINGS
J	LIFT BOSS SIZE

PACKER SPOOL Top View



WHITEWATER SUBMERSIBLE UNIT

SUBMERSIBLE TABLE (In Inches)

UNIT	A	B	C	D	E	F	G	H	J
SU 8	8 1/2	9	8.071	8.625	10	4	4	1/2	4
SU 10	11	11 1/2	10.136	10.750	12	5	5	3/4	4
SU 12	12 1/2	13 1/2	12.090	12.750	14	6	6	1	6
SU 16	16 1/2	16 1/2	15.250	16	23	8	8	1 1/2	8
SU 20	20 1/2	20 1/2	19.250	20	26	10	10	2	10

NOTE: Items F, G & J - Maximum Sizes Available. Items F & J are Always Same Size.