

SPP PITLESS UNITS

Protect your precious water supply with a Merrill Pitless Unit. The highest quality installation plus the best for water safety and sanitation. They save the contractor installation and servicing headaches, and give the well owner years and years of trouble-free service.

FEATURES/BENEFITS SINCE 1972

- (1) **CERTIFIED WATERTIGHT PITLESS UNITS & CAPS** Tested and approved by Pitless Adapter Standard PAS-1, PAS-2, PAS-97(2019) (R 2023), ASSE Standard #1093-2019(R 2023) and Illinois Code.
BENEFIT: Approved by most all well codes.
- * (2) **100% PRESSURE TEST OF ALL UNITS** at factory to insure seal to discharge, plus parts are pinned in place.
BENEFIT: Guarantees pitless unit lines up and seals when servicing well.
- * (3) **POSITIVE MECHANICAL SEAL** by simply turning the stainless steel adjusting nut at the top of the well.
BENEFIT: Easy to work on and will not rust.
- (4) **FULL DIAMETER ACCESS TO WELL** No obstructions that may need to be removed before working on well, common to pitless adapters.
BENEFIT: Needed when reworking or drilling well.
- (5) **LARGE SPUD GASKET SEAL** on discharge ell assures watertight seal around hole cut in casing, and separates discharge elbow and casing, to eliminate corrosion that can make removal difficult.
BENEFIT: Insures seal to inside of casing.
- * (6) **MALE THREAD, PLAIN END, OR COMPRESSION COUPLING** available on end of pitless casing for connection to well.
BENEFIT: Easy connection to well casing for all installations.
- * (7) **SUPPORT PLATE HOLDS WEIGHT** Minimize danger of losing pump or pipe down well.
BENEFIT: Will support more weight.
- (8) **CABLE SLOT IN SUPPORT PLATE** Allows you to install and service pump without a splice in submersible cable.
BENEFIT: Splice in cable could be eliminated.
- * (11) **GROUND SCREW IN SUPPORT PLATE** provides a simple and easily accessible connection for the electrical ground of the pump cable.
BENEFIT: Easy connection for ground wire.
- * (12) **SIMPLE DISENGAGEMENT FOR SERVICE** By simply turning the stainless steel adjusting nut, the entire water system outside the well can be drained WITHOUT pulling the pump (impossible with other pitless units).
BENEFIT: Simple answer for summer homes.
- (13) **WATERTIGHT CAPS ARE AVAILABLE**
BENEFIT: A well cap for all well codes.
- (14) **STAINLESS STEEL ELBOW FITTING** available for discharge

Specifications

Complete pitless units - casing, discharge outlet, internal parts complete with pull pipe and watertight or ventilated caps. Full diameter access in well with no obstructions. Corrosion free or corrosion protected parts - galvanized elbow and pipe, stainless steel adjusting nut, painted casing. Support plate at top of unit holds weight to take stress off internal parts, and ground screw included for electrical pump cable.

* Exclusive Merrill Quality Features

****NOTE:** Length of internal parts are bury depth plus 12 inches for well codes, or 4 ft. bury is approximately 5.5 ft. long.



WARNING: This product meets Federal USA Drinking Water requirements but has not been specifically tested or approved as no-lead in the State of California.

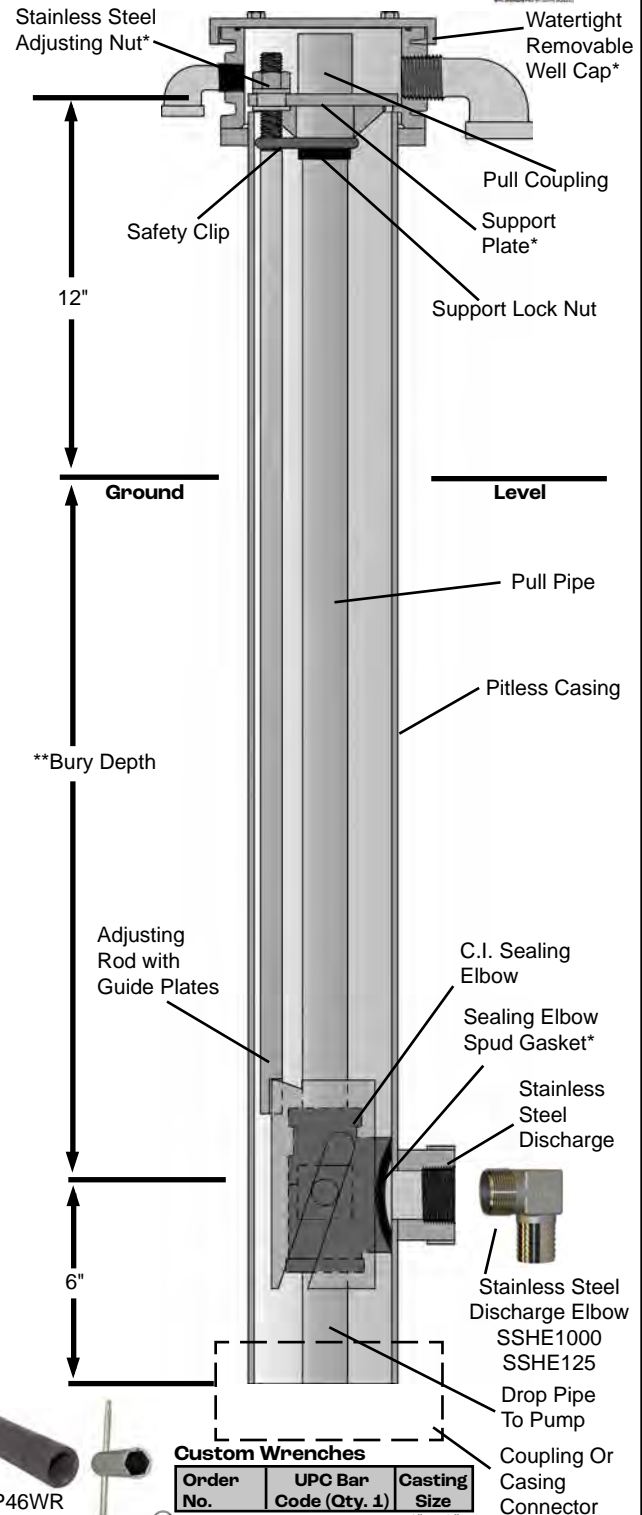
Custom wrenches for stainless steel adjusting nut available from Merrill.



Custom Wrenches

Order No.	UPC Bar Code (Qty. 1)	Casting Size
SP46WR	6 42367 41178 7	4" x 6"
SP8WR	6 42367 05413 7	8"

Merrill SPP Pitless Units are Certified





No-Lead



CA. Certified

**MERRILL**
MANUFACTURINGStainless Steel
Discharge
Fitting at
Bottom of Page**2**

SPP PITLESS UNITS

NOTE

Order No. Breakdown

Product I.D.

SPP For Sub Pitless

Well Size

4 For 4" I.D. Casing

Bury Depth

04 For 4' Bury Depth

Well Cap

WC Watertight Cap

Options

CC40 Compression Coupling

Two Well Cap Models Available – WC or WCB for Watertight Cap

Order No.	UPC Bar Code (Qty. 1)	Well Size & Depth	Bury Depth	Drop Pipe & Discharge	WC-Series Order No.	UPC Bar Code (Qty. 1)	Approx. Wt./Lbs. w/WC Cap	WCB-Series Order No.	UPC Bar Code (Qty. 1)
SPP400 Series									
SPP401	6 42367 05547 9	4" x 1'		1-1/4"	SPP401WC	6 42367 05590 5	47.5	SPP401WCB	6 42367 05608 7
SPP402	6 42367 05548 6	4" x 2'		1-1/4"	SPP402WC	6 42367 05591 2	58.5	SPP402WCB	6 42367 05609 4
SPP403	6 42367 05188 4	4" x 3'		1-1/4"	SPP403WC	6 42367 05592 9	69.5	SPP403WCB	6 42367 05610 0
SPP404	6 42367 05549 3	4" x 4'		1-1/4"	SPP404WC	6 42367 05283 6	80.5	SPP404WCB	6 42367 05611 7
SPP405	6 42367 05550 9	4" x 5'		1-1/4"	SPP405WC	6 42367 05045 0	91.5	SPP405WCB	6 42367 05612 4
SPP406	6 42367 05551 6	4" x 6'		1-1/4"	SPP406WC	6 42367 02726 1	102.5	SPP406WCB	6 42367 05613 1
SPP407	6 42367 05552 3	4" x 7'		1-1/4"	SPP407WC	6 42367 05593 6	113.5	SPP407WCB	6 42367 05614 8
SPP408	6 42367 05553 0	4" x 8'		1-1/4"	SPP408WC	6 42367 05594 3	124.5	SPP408WCB	6 42367 05615 5

WC Series Watertight Cap - Cable Entrance = 1" Vent Included = 1/2" **WCB Series Watertight Cap** - Cable Entrance = 1-1/2" Vent Not Included**NOTE: Compression couplings available for SPP4. Add CC40 to Order No. (See below)****SPP500 Series**

SPP501	6 42367 05554 7	5" x 1'		1-1/4" or 2"	SPP501WC	6 42367 05595 0	56.0	SPP501WCB	6 42367 05616 2
SPP502	6 42367 05555 4	5" x 2'		1-1/4" or 2"	SPP502WC	6 42367 05596 7	74.0	SPP502WCB	6 42367 05617 9
SPP503	6 42367 05556 1	5" x 3'		1-1/4" or 2"	SPP503WC	6 42367 05597 4	92.0	SPP503WCB	6 42367 05618 6
SPP504	6 42367 05557 8	5" x 4'		1-1/4" or 2"	SPP504WC	6 42367 05598 1	114.0	SPP504WCB	6 42367 05619 3
SPP505	6 42367 05558 5	5" x 5'		1-1/4" or 2"	SPP505WC	6 42367 05599 8	132.0	SPP505WCB	6 42367 05620 9
SPP506	6 42367 05559 2	5" x 6'		1-1/4" or 2"	SPP506WC	6 42367 02728 5	143.0	SPP506WCB	6 42367 05621 6
SPP507	6 42367 05560 8	5" x 7'		1-1/4" or 2"	SPP507WC	6 42367 05600 1	162.0	SPP507WCB	6 42367 05622 3
SPP508	6 42367 05561 5	5" x 8'		1-1/4" or 2"	SPP508WC	6 42367 05601 8	180.0	SPP508WCB	6 42367 05623 0

WC Series Watertight Cap - Cable Entrance = 1" Vent Included = 3/4" **WCB Series Watertight Cap** - Cable Entrance = 1-1/2" Vent Not Included**NOTE: Compression couplings available for SPP5. Add CC50 to Order No. (See below)****SPP600 Series**

SPP601	6 42367 05562 2	6" x 1'		1-1/4" or 2"	SPP601WC	6 42367 05602 5	70.5	SPP601WCB	6 42367 05624 7
SPP602	6 42367 05563 9	6" x 2'		1-1/4" or 2"	SPP602WC	6 42367 05603 2	93.5	SPP602WCB	6 42367 05625 4
SPP603	6 42367 05564 6	6" x 3'		1-1/4" or 2"	SPP603WC	6 42367 05203 4	114.5	SPP603WCB	6 42367 05626 1
SPP604	6 42367 05565 3	6" x 4'		1-1/4" or 2"	SPP604WC	6 42367 05604 9	139.5	SPP604WCB	6 42367 05627 8
SPP605	6 42367 05566 0	6" x 5'		1-1/4" or 2"	SPP605WC	6 42367 05605 6	158.5	SPP605WCB	6 42367 05628 5
SPP606	6 42367 05567 7	6" x 6'		1-1/4" or 2"	SPP606WC	6 42367 05606 3	181.5	SPP606WCB	6 42367 05629 2
SPP607	6 42367 05568 4	6" x 7'		1-1/4" or 2"	SPP607WC	6 42367 05474 8	202.5	SPP607WCB	6 42367 05630 8
SPP608	6 42367 05569 1	6" x 8'		1-1/4" or 2"	SPP608WC	6 42367 05607 0	224.5	SPP608WCB	6 42367 05631 5

WC Series Watertight Cap - Cable Entrance = 1-1/4" Vent Included = 3/4" **WCB Series Watertight Cap** - Cable Entrance = 1-1/2" Vent Not Included**NOTE: Compression couplings available for SPP6. Add CC60 to Order No. (See below)****Pitless Unit Casing Connectors Available:**

- **Rubber Compression Couplings:** CC440, CC450, CC550, and CC660
- **Threaded Merchant Couplings:** BC4, BC5, and BC6
- **Half Weld X Threaded Couplings:** HW4, HWXL4, HW5, HWXL5, HW6, and HWXL6
- **Heavy-Duty Cast Threaded X Compression Couplings:** CC40, CC50, CC60 (APC Series) threaded on unit at factory



Rubber Coupling



Threaded Coupling



Half Weld Coupling



Compression Coupling (APC Series)

WC Series
Watertight Cap
w/1" Conduit
TappedWCB Series
Watertight Cap
w/1-1/2" Conduit
Tapped**NOTE: All pitless units listed above have passed the Pitless Adapter Standard PAS-1, PAS-2, PAS-97(2019)(R 2023), ASSE Standard #1093-2019(R 2023) and Illinois Code.****NOTE: SPP Units are available at special bury depths by quote per application.****Stainless Steel Elbow Discharge Fittings**

SSHE1000

Order No.	UPC Bar Code (Qty. 1)	Insert Size x MIP Size
SSHE1000	6 42367 12117 4	1" x 1"
SSHE125	6 42367 12115 0	1-1/4" x 1-1/4"

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SPP PITLESS UNITS

SPP Installation Instructions

NOTE: All Merrill Pitless Units are pressure tested to insure seal, and all inside assemblies are drilled and pinned after test, to guarantee alignment and seal for years.

A) Before lowering inside assembly into well casing of unit, thread pipe to pump into sealing elbow by putting pipe wrench on pipe and elbow, **NOT** assembly pipe above elbow.

B) To Install:

- 1.) Apply **Anti-Seize/Gasket Lube** to spud gasket, plus slot and back edges of guide plates, then lower parts into well.
- 2.) Fit rib on support plate into notch in adapter casing (see Diagram C)
- 3.) Turn adjusting nut counter-clockwise all the way so rod threads are down.

C) To Pull:

- 1.) Turn adjusting nut clockwise as far as possible so rod threads all the way up.
- 2.) Connect to pull coupling and lift.

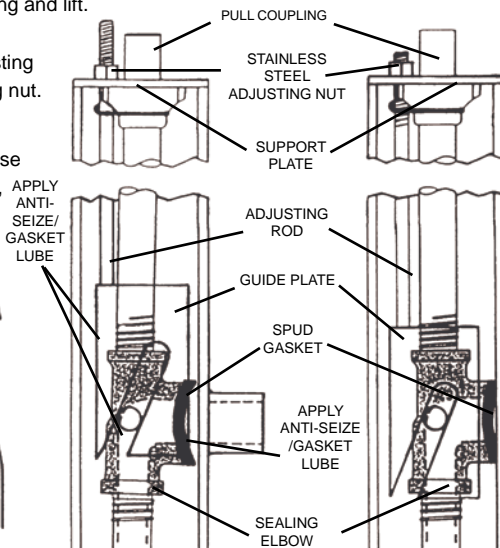
Diagram A - Disengaged:

NOTE: "high" position of adjusting rod threads through adjusting nut.

Diagram B - Sealed: Turning adjusting nut counter-clockwise puts threads in "low" position, engages seal.



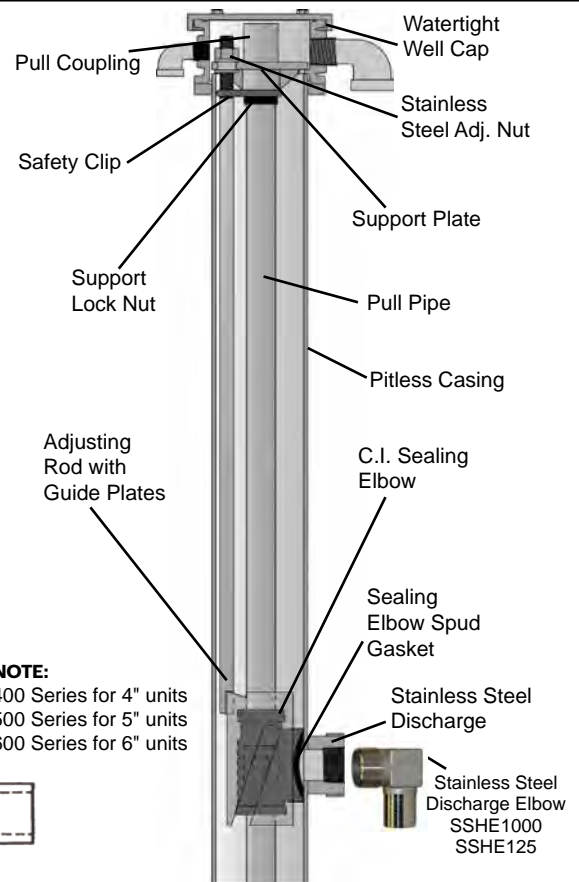
DIAGRAM C



**DIAGRAM A
DISENGAGED**

**DIAGRAM B
SEALED**

NOTE:
400 Series for 4" units
500 Series for 5" units
600 Series for 6" units



Stainless Steel Elbow Discharge Fittings

Order No.	UPC Bar Code (Qty. 1)	Insert Size x Size	MIP
SSHE1000	6 42367 12117 4	1" x 1"	
SSHE125	6 42367 12115 0	1-1/4" x 1-1/4"	



SSHE1000 or
SSHE125

Parts Description	4" Units Part No.	5" Units Part No.	5" Units Part No. with 2" Drop & Discharge	6" Units Part No.	6" Units Part No. with 2" Drop & Discharge
Stainless Steel Adj. Nut	409	409	409	409	409
	6 42367 00223 7	6 42367 00223 7	6 42367 00223 7	6 42367 00223 7	6 42367 00223 7
Pull Coupling	GDC100	GDC100	GDC125	GDC100	GDC125
	6 42367 05400 7	6 42367 05400 7	6 42367 05401 4	6 42367 05400 7	6 42367 05401 4
Support Plate	414	514	514X2	614	614
	6 42367 00227 5	6 42367 00343 2	6 42367 05699 5	6 42367 00451 4	6 42367 00451 4
Support Lock Nut	415	415	615	415	615
	6 42367 00229 9	6 42367 00229 9	6 42367 00454 5	6 42367 00229 9	6 42367 00454 5
Pull Pipe	PRICE ON APPLICATION				
Pitless Casing	PRICE ON APPLICATION				
Adjusting Rod w/guide plates 1	PRICE ON APPLICATION				
C.I. Sealing Elbow	412A	512A	512C	612A	612B
	6 42367 00225 1	6 42367 00340 1	6 42367 00341 8	6 42367 00447 7	6 42367 00448 4
Sealing Elbow Spud Gasket	420	420	620B	420	620B
	6 42367 00257 2	6 42367 00257 2	6 42367 00484 2	6 42367 00257 2	6 42367 00484 2
Stainless Steel Discharge	PRICE ON APPLICATION				

1 When ordering Adjusting Rod and Unit Casing, indicate model number and bury depth



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