

# ***GROUNDWATER MONITORING BORE/WELL MATERIALS***

*Well Casing & Screen, PVC*

*Well Plugs & Caps*

*Well Covers*

*Accessories*

*Other Monitoring Bores/Wells*

## Well Casing and Screen - Enviroscreen™

**Cut your monitoring bore material costs without cutting on quality**

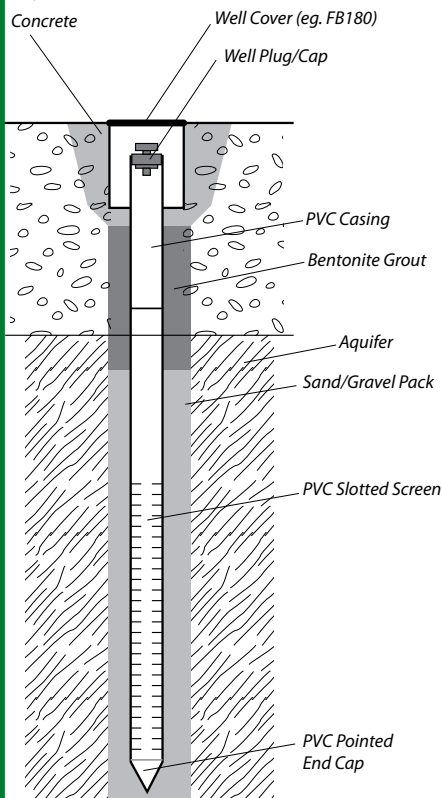
Enviroequip's 50mm PVC Bore Casing and Screen is ideally suited for use as environmental monitoring wells. It is made from uPVC, class 18 size, and features coarse threaded ends for easy field assembly. O-rings are included on every male thread.

Enviroscreen™ has been tested by a certified Australian laboratory to show that it will not release any metal or organic contaminants into the groundwater. This is an important requirement of materials used in environmental monitoring. Results are available upon request.

### Benefits to you

- Very competitive prices - even better if you buy in bulk. Why pay more than you need to for monitoring well materials?
- Same day shipping - in stock across the country. We can deliver direct to your site. Coarse thread - for easy field assembly, flush joins for no hang-ups.

### Typical Monitoring Well



### Specifications

<b>Material</b>	uPVC - 100% virgin colourless compound
<b>Size Class</b>	CL18 - 51mm ID x 60.2mm OD
<b>Screen</b>	Slot Spacing - 4mm Slot width - 0.5mm
<b>Colour</b>	White
<b>Packaging</b>	Individually bagged / or bagged in pairs
<b>Thread Type</b>	Coarse for easy field assembly, flush joins
<b>Seal</b>	O-ring (nitrile) sealed on male threads
<b>Shipping</b>	3m packed as 6 x lengths -18kg dead wt, 19kg dimesional 1.5m packed as 10 x lengths-18kg deadwt, 21kg dimesional

### Ordering Information

<b>Screen &amp; Casing - 50mm CI 18 size</b>	
MGS05015ST18	Screen 1.5m 50mm dia.
MGS05030ST18	Screen 3.0m 50mm dia.
EEQ05015CT18	Casing 1.5m 50mm dia.
EEQ05030CT18	Casing 3.0m 50mm dia.
PPSD050EC	PVC end cap push on 50mm
EEQ22206	PVC pointed end cap push in 50mm
<b>Screen &amp; Casing - 100mm CI 12 size</b>	
EEQ10030ST	Screen 3.0m 100mm dia.
EEQ10030CT18	Casing 3.0m 100mm dia.
PPSD100EC	PVC end cap push on 100mm
<b>Related Equipment</b>	
WHRIPC50	Internal Pipe Cutter for 50mm wells
WHRIPC100	Internal Pipe Cutter for 100 mm wells
CGEBT152	Filter sock - 50mm wells
CGEBT154	Filter sock -100mm wells

## Direct Push Tooling - Pre-Pack Screen



### Pre-Pack Screen

Pre-Pack screens make it easy to install groundwater monitoring wells using direct push machines. Each Pre-Pack is constructed of a slotted PVC pipe surrounded by #20/40 silica sand. The sand is held in place by an outer stainless steel mesh. Using Pre-packs means that the sand is located exactly where you want it - around the screen.

Use with expanding foam bridge and bentonite quick-seal sleeve to save time installing monitoring wells.

A range of Pre-pack sizes and accessories are available

DPSSVPT97 - 28mm expendable vapour point for SS implant  
 DPSSVPT96-6 - 152mm stainless steel permanent implant  
 DPS33.7-50 - Teflon tubing 0.187in ID 0.25in OD 15.2m roll  
 DPSINJP2 - Open Point Holder, 1.25-in. (uses 1.10 in. point)

## Pre-Pack Screens & Accessories



DPS15-020-05SSPP  
 51mm ID 71mm OD 1.5m prepacked well screen  
 DPS15-015-050PPSS  
 38mm ID 61mm OD 1.5m prepacked well screen  
 DPS15-010-050-2.4  
 25mm ID 61mm OD 1.5m prepacked well screen



DPS15-015-FBQS  
 1.5in combo foam bridge & bentonite/quick seal sleeve,  
 length 760mm, initial OD 61mm, fill hole  
 diameter >89mm

## Well Development Tool



DPSQWD075 Qwater well developer 19mm  
 DPSQWD1 Qwater well developer 25mm  
 DPSQWD1.5 Qwater well developer 38mm  
 DPSQWD2 Qwater well developer 51mm

## Screen, Casing & Accessories for Pre-Packs



DPS10-020-050A 51mm s40 PVC riser 1.5m  
 DPS11-020-050E1 51mm s40 PVC screen 1.5m  
 DPS10-015-050F 38mm s40 PVC riser 1.5m  
 DPS11-015-050E1 38mm s40 PVC screen 1.5m  
 DPS10-010-050F 25mm s40 PVC riser 1.5m  
 DPS11-010-050E1 25mm s40 PVC screen 1.5m



DPS13-010-PLUG 25mm s40 grey solid threaded male plug  
 DPS14-015-PLUG 38mm s40 PVC threaded male plug  
 DPS14-020-PLUG 51mm s40 PVC threaded male plug



DPS13-010-MPNT 25mm s40 grey solid threaded male point  
 DPS14-020-MPOINT 51mm s40 threaded male point



DPS32-010-FRPT  
 25mm s40 solid grey push in friction point



DPST1 25mm plug orange torquer  
 DPST1.5 38mm plug orange torquer  
 EDPT2 51mm plug orange torquer

## Torquer Well Plugs

Now available in two sizes:

- 50mm wells
- 100mm wells

The Torquer locking I.D. plug truly locks well. In addition the Torquer plug is manufactured out of a glass reinforced polymer for additional strength. Incorporated is a large wing nut design for ease of installation and removal. The plug is water tight, fluorescent orange (helps locate well) and are priced to save money.

### Features

- Ingenious, reliable locking mechanism
- Light weight yet super strong, only 95 grams
- Instrument tethering attachment at base
- Ultra high chemical and temperature resistant properties
- Comfort grip, easy on, easy off wing nut design
- High-Tech liquid tight seamless dual rubber gasket
- No metal parts



### Ordering Information

<b>EDPT2</b>	Torquer 50mm well plug
<b>EDPT4</b>	Torquer 100mm well plug
<b>LSCLTC207</b>	Keyed Alike Padlock, Brava, 30mm

**BULK DISCOUNTS**  
25, 50, 100

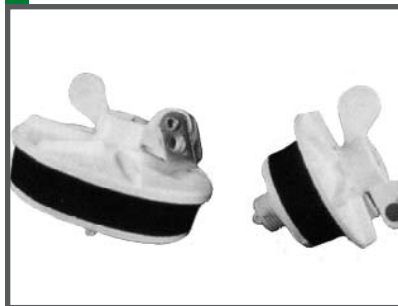
## J-Plug

The Tried & True Standard!

### Features

- Large wing nut makes locking or releasing easier to perform
- Distinctive white colour
- Wide rubber seal for increased gripping area
- Rubber seal extends over the end of the well casing to seal on the end as well
- Attachment eye on the bottom allows suspension of dedicated bailers, skimmers or Waterra tubing in well
- Avoids wasting of bailers and tubing

A distinctive white colour that makes it easily recognisable - the clear 'Caution Do Not Fill - Monitor Well' imprint. The most distinctive feature of the plug is its wide rubber seal that extends up over the lip of the well. The all-plastic body also eliminates metal corrosion from the elements or well contents.



### Ordering Information

<b>MWSBF10210</b>	50mm J-Plug
<b>MWSBF10410</b>	100mm J-Plug
<b>LSCLTC207</b>	Brava Keyed Alike Locks 30mm

**BULK DISCOUNTS**  
25, 50, 100

## H Cap

No Padlock, Unique Key

Well Cap with Built-in Security

### Features

- With unique locking key and built-in Dust Cap
- Locking well cap with no padlock
- Unique Key ensures only you can access the well cap
- Built-in dust cap so no dirt can get into the key ways
- New "Warning Monitoring Well Do Not Fill" Label built into cover
- Bailer holder built-in on bottom of plug



### Ordering Information

<b>MWSHCAP25</b>	25mm H Cap
<b>MWSHCAP32</b>	32mm H Cap
<b>MWSHCAP50</b>	50mm H Cap
<b>MWSHCAP100</b>	100mm H Cap
<b>MWSHKEY</b>	Unique Key

**BULK DISCOUNTS**  
25, 50, 100

## Grip 'n Lock Well Caps

### Avoid illegal well tampering

These are very similar to the popular 'Snap Caps', except they are bright orange in colour and require no glue or binding material to fix it to the PVC riser. You merely tap it on with a rubber hammer, over the end of the PVC pipe. The internal barbs grip the OD of the PVC pipe. The result is a non-rusting, highly visible environmentally protective riser pipe.

When fastened in position and padlocked, the Grip 'n Lock cannot be opened without physically breaking the cap. This ensures easy detection of any unauthorised entry to the well.

#### Features

- Functions as a small riser for land fill wells
- Can be vented to allow well to 'breathe'
- Simple locking function
- Hinged lid
- Non-rusting, highly visible (Orange) and environmentally cosmetic
- Available in 2 sizes: GPL050 - Grip n' lock caps for 50mm wells & GPL100 - Grip n' lock caps for 100mm wells



#### Ordering Information

<b>EDGPL050</b>	Grip n' lock caps for 100mm wells
<b>EDGPL100</b>	Grip n' lock caps for 100mm wells
<b>LSCLTC207</b>	Brava Keyed Alike Locks, 30mm

**BULK DISCOUNTS**  
25, 50

## EnviroCap Well Plug

### No Padlock, Magnetic Key

EnviroCap Well Security Plugs are the lowest profile plugs available, taking up only 6mm over the casing. Ideal for use in tight spots.

EnviroCaps have a unique internal magnetic lock. The lock is engaged when the key is inserted into the top of the cap.

The EnviroCap cannot be tightened or opened without this key. If a screwdriver or other tool is used to open the cap, the magnetic assembly will not engage and the inner section will simply freewheel without loosening.

#### Features

- Very low profile, rises only 6 mm above top of well casing
- Unique magnetic key, eliminates tampering
- Palm sized key is hard to lose
- No padlocks to rust out or that require bolt cutters to be removed
- Wide rubber seal for increased gripping area
- Comes with a stiffening sleeve to slip over end of the casing to avoid deforming of the casing
- Sleeve serves to provide a straight-cut casing end
- Attachment eye on the bottom allows suspension of dedicated bailers, skimmers or Waterra tubing in the well

The EnviroCap is rust and corrosion proof, reusable, resistant to chemicals, and will not come loose like other plugs.

#### Prevents Casing Deformation

The EnviroCap has a retaining sleeve that slides over the outside of the well casing and permanently seals against the cut off end of the pipe. The specially sized and formulated sleeve retains and holds the diameter of the PVC casing within the limits of the expanding seal. The design of the retaining sleeve also tops the well casing with a flat surface, even when the casing has been cut at a slight angle.



#### Ordering Information

<b>EDPEC1002*</b>	EnviroCap 50mm Well Plug
<b>EDPEC1004</b>	EnviroCap 100mm Well Plug
<b>EDPEC100</b>	EnviroCap Key

**BULK DISCOUNTS**  
25, 50, 100

## Ex-Cap Vapour or Water Extraction Well Plugs

**Ideally suited to landfill gas sampling...**

The Ex-Cap is a self-sealing vapour sampling cap that takes the place of a standard monitoring well cap where vapour or water monitoring is required. It operates as a watertight locking expansion plug with the capability of having vapour (Ex-Cap for Air) or water (Ex-Cap for Water) extracted through the cap, without removing the cap from the well.

### How it Works

The Ex-cap has an airtight brass valve, which seals the well. Sampling through the cap is achieved using a Quick Connect Extraction Connector, which snaps on to the valve. Once connected, the valve opens, allowing the user to sample vapour (or water) from the well.

### Features

- Large wing nut makes locking or releasing easier to perform
- Distinctive white colour
- Wide rubber seal for increased gripping area
- Rubber seal extends up over the end of the well casing to seal on the end as well
- Attachment eye on the bottom allows suspension of dedicated bailers, skimmers or Waterra tubing in wells
- Avoids wasting of bailers and tubing
- Allows sampling of vapours or water at the equilibrium conditions present in the well without opening the well to the atmosphere

The Ex-Cap also has the ability to stabilise water tables in creating an ambient condition with both watertight enclosure and open atmosphere, without compromising the integrity of the well.

The Ex-Cap provides sampling accuracy, improved sampling quality, reduced field time, reduced personnel exposure and decontamination time.

The Ex-Cap is made entirely of a reinforced chemical resistant nylon and has two separate Buna N O-rings for a watertight seal, easy to use, flip down locking hasp which allows you to secure the cap with any padlock. It has a permanently attached dust cover to protect the coupling's outer face when not connected.



### Ordering Information

<b>EDPEX102A</b>	Ex-Cap for Vapours in 50mm wells
<b>EDPEX104A</b>	Ex-Cap for Vapours in 100mm wells
<b>EDPEXQC</b>	Ex-Cap Extraction Connector - 1/4" hose (600mm long) with mating quick connect fitting
<b>LSCLTC2071143</b>	Brava Padlocks 30mm Keyed Alike

**BULK DISCOUNTS 25, 50**

## FB Series Well Covers

**Flush-mounted well covers with bolt-down lid security**

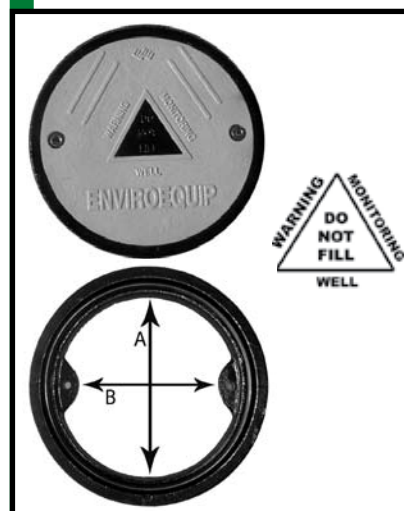
Providing a professional finish to your wells. Available in three sizes to meet all your well head requirements.

### Features

- Designed to meet the USA API 1615 standard for well covers
- Stainless Steel bolts
- Added security with cap screw bolts (requires allen key)
- Oring seal for leak resistance
- Tamper resistant
- "Warning Monitoring Well - Do Not Fill" cast into the lid (Internationally recognised) as an environmental well
- Ample space inside

### Need High Security?

Specify Post Bolts with the FB style covers - extremely tamper proof.



### Ordering Information

<b>EEQFB180</b>	180mm OD 200mm long skirt, 9kg A dia. - 135mm B dia. - 90mm
<b>EEQFB200</b>	265mm OD 200mm long skirt, 10kg A dia. - 205mm B dia. - 160mm
<b>EEQFB300</b>	355mm OD 300mm long skirt, 19kg A dia. - 282mm B dia. - 230mm
<b>BLK06250210</b>	Allen key to suit FB series bolts

**BULK DISCOUNTS AVAILABLE**



### FM Series Well Covers

EnviroEquip designed well covers with a twist lock lid for in-ground wells. Popular amongst drillers as it sits flush and minimises messy cement works.

**Features**

- Available for 50mm and 100mm wells
- International triangle symbol with "Warning Monitoring Bore, Do Not Fill"
- 50mm version fits in 150mm cut out
- 1/4 turn lid to twist close or open
- Non leak resistant
- Non-locking
- Cast iron



**Specifications**

	BICFM150	BICFM180
Internal Dia. (ID)	98mm	140mm
Outside Dia. (OD)	138mm	175mm
Flange (OD)	none	200mm
Height	100mm	100mm
Weight	3.2kg	6.0kg

**Ordering Information**

- EEKQM150 Well Cover for 50mm wells
- EEKQM180 Well Cover for 100mm wells



**BICFM150 - 50, 100**  
**BICFM180 - 25, 50**

### Monument Well Covers Powder Coated for a professional finish

These lockable, stand-up well covers provide rugged protection, while hinged covers allow easy access to wells. The original square shape indexes the Well Cover so it cannot be rotated out of the concrete pad. The raised lid allows the well casing to stick up above the edge of the cover when opened for easier accessibility. Convenient tabs enable covers to be securely locked with a single padlock. A full-width hinge secures cover in place.



**Ordering Information**

- EEKMC1001 Well Monument Cover  
1.0m long by 100mm square - 14kg
- EEKMC1501 Well Monument Cover  
1.0m long by 150mm square - 19kg



### Green Grease Hydrocarbon-Free Grease

Finally, a hydrocarbon-free thread compound that is odourless and has a temperature range of up to 260°C. Green colour.

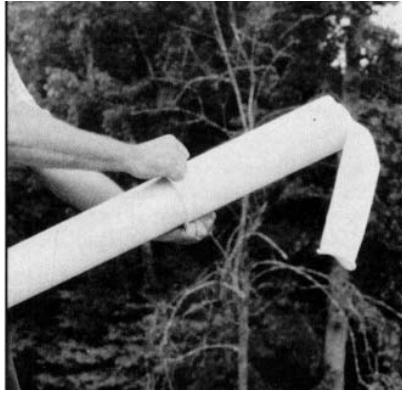


**Specifications**

<b>General Composition</b>	
Ricinus Oil, Fluorinated Polytetrafluoroethylene, Silica	
<b>EP Additive Ester</b>	
Type, containing no phosphorous sulphur, or metal salt.	
<b>Corrosion inhibitor</b>	
Conventional Imadazolone derivate	
<b>Oxidation Stability (ASTM D942)</b>	
100 hours, psi drop - 10 max	
<b>Temperature Range</b>	
-260C to 2600C, Flash Pt. 2260C	
<b>Dropping Point</b>	F (ASTM D217) None
<b>Type</b>	Oil Synthetic
<b>Thickener</b>	Fumed Silicate
<b>Consistency, Cone Penetration (ASTM D1742)</b> 220 to 300	
<b>Oil Separation % Wt. loss (ASTM D1742)</b> 5 max	
<b>Rust Preventative Test (ASTM D1743)</b> No 2	
<b>Ordering Information</b>	
KOTGG Green Grease, 3.7L, 4.2 kg pail	

### Filter Sock

Filter Sock slides over the slotted well screen to keep out unwanted fine silt and sands. The polyester sock is of 1.9mm thickness with a filtration opening size of approx 250 microns. Available to suit 50mm, 100mm or 150mm wells.

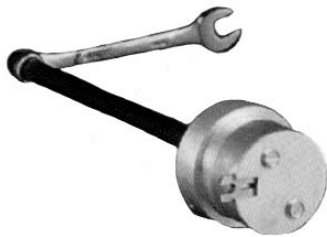


#### Ordering Information

- CGEBT152** 50mm Filter Sock, 50m long, weighs 1kg
- CGEBT154** 100mm Filter Sock, 100m long, weighs 4kg
- CGEBT156** 150mm Filter Sock, 100m long, weighs 6kg

### Internal PVC Pipe Cutters

A valuable tool to cut monitor wells internally. It is easy to install and cuts in minutes. Cuts at preset depth at or below surface. Up to 200mm adjustable depth.



#### Ordering Information

- WHRIPC50** 50mm Internal PVC pipe cutter
- WHRIPC100** 100mm Internal PVC pipe cutter
- WHRIPC50B** Replacement blade for 50mm PVC pipe cutter
- WHRIPC100B** Replacement blade for 100mm PVC pipe cutter

### Bentonite Pellets

Sodium Bentonite is a naturally occurring clay mineral that has a high affinity for water. When hydrated, high grade bentonites swell 10-12 times their original size. Because of this valuable characteristic, they are specially mined and formulated for use as a low pH grout/sealant for ground water monitoring wells.



#### Ordering Information

- VCLVBENTBAG** Bentonite Granules (1-2mm) - 25kg bag
- DTHVBENTCHIPS** Bentonite chips 1/4 - 3/8 inch 25kg pail

### AMS Pipe Elevator

For safety and strength, you won't find a better safety pipe elevator on the market.

The AMS Pipe Elevator is the most convenient system available. The Pipe Elevator Set is used to retract or lower pump and pipe assemblies into environmental bores. The set includes two main body assemblies each with five pairs of bushing for pipes with diameters from 1" to 3".

#### Features and Benefits

- The safety latch operates smoothly for quick placement of each elevator body.
- Installation or removal of bore pumps and pipes is accomplished quickly and safely with the AMS Pipe Elevator set.

#### Operation

The pipe string will be lowered until it rests on the upper elevator. The removed elevator is put on the next joint of pipe, raised to position over the previous joint and screwed tight. A slight lift permits removal of the lower elevator then lowered until the coupled string rests on the next or upper elevator and so on until the pipe string is completely installed.



#### Ordering Information

- AMS411.00** AMS Pipe Elevator Kit



### Sludger

Collection of sludge out of a hole or bore hole bottom

The sludger is used by pumping them up and down in the sludge and thereby filling them up with the sludge. A ball in the bottom acts as a check valve to prevent the sludge from falling out during the pumping action and during final retrieval. The sludger has two types of connection configurations, either:

Fig. 1 - it is lowered down a hole from a rope and lifted up and down  
 Fig. 2 - it can be attached to extensions and pumped up and down



Fig. 1

Fig. 2

#### Ordering Information

<b>DORSL5010C</b>	Sludger, 50 mm OD, 1.0 m long, swivel head
<b>DORSL3810C</b>	Sludger, 38 mm OD, 1.0 m long, swivel head
<b>DORSL6210C</b>	Sludger, 62 mm OD, 1.0 m long, swivel head
<b>DOREXT4010SC</b>	Extension, 40x1000mm, painted steel
<b>DOREXT4010AC</b>	Extension, 40x1000mm, Aluminium
<b>DORTBC</b>	Tommybars to undo extensions, steel

Painted steel standard.  
 Also available in stainless steel.

### Direct Push Tooling - Soil Vapour Sampling

Introducing a new alternative for Direct Push tooling and consumables.

- High quality tooling and liners at competitive prices
- Compatible with established direct push tooling manufacturers
- Comprehensive range includes probe rods, macrocore, dual tube, vapour points, prepacks and liners
- Introducing a new alternative for Direct Push tooling and consumables
- Made in the USA
- Most items in stock, ready to ship

#### Soil Vapour Sampling Point Applications:

- Permanent Soil Gas Monitoring
- UST Monitoring
- Groundwater Sampling
- Air Sparging
- Pressure Measurement Point in Vacuum Testing
- Vapour Extraction Monitoring

A range of implants & accessories are available for soil vapour and groundwater sampling



## Solinst Drive-Point Piezometers

### When is the Drive-Point Piezometer used?

The Solinst Piezometer is designed for use in soft soils and sands, and is suitable for driving directly into the ground. It is most commonly used for:

- Ground water sampling, incl. VOCs
- Water level monitoring
- Contaminant plume delineations
- Soil gas sampling
- UST monitoring
- Site Characterisations
- Product Removal

### Model 615, SS (barbed)

The 615 Drive-Point Piezometer from Solinst comprises of a 31mm (1.25in.) stainless steel probe or drive-point. The back of the piezometer attaches to 20mm or 3/4in. NPT pipe. The probe has a 32mm (1.25") internal stainless steel cylindrical filter screen that prevents clogging as groundwater enters the probe through the visible inlet holes. Access to the internal filter section is via a 12mm (1/2in.) barbed fitting attachment for a sample line.

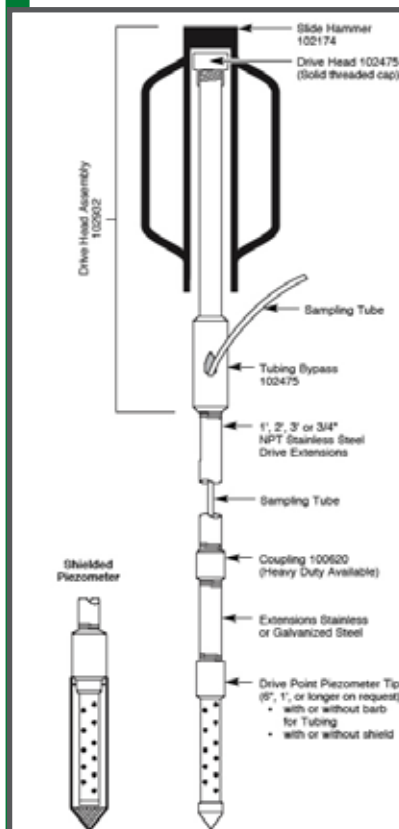
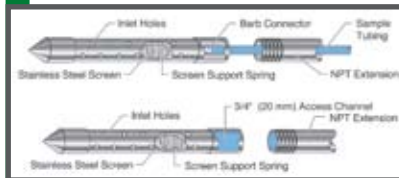
### Model 615N, SS (without barb)

The Model 615N has no barbed opening at the back of the probe and is sufficient to use a 12mm (1/2in.) bailer, peristaltic pump or vacuum pump for water sampling. Screen sections up to 1m in length are available allowing you to span a surface of the aquifer. Because the Drive-Point Piezometer uses simple 20mm (3/4in.) NPT pipe extensions, installing a Solinst Drive-Point Piezometer with standard pipe extensions will in effect give you 20mm OD well.

### How do the 615 Points Work?

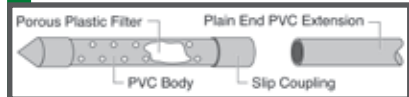
- Any direct push or drilling technology, including a portable hammer or slide hammer can be used for the installation.
- The inner barbed fitting allows connection of LDPE or Teflon sample tubing, which prevents sample water from contacting the steel extension casing, and maintains high sample integrity even if the carbon steel extensions are used.

- The strengthened connector at the top of the drive-point acts as an annular seal which avoids contamination from higher levels in the hole.
- The added strength also reduces thread damage during installation. Extension couplings are similarly strengthened to create a more rugged piezometer.
- Drive-Point Piezometers can be installed permanently as wells, or used once and removed.



### Model 601, PVC (without barb)

The Model 601 is designed to be placed within a drilled hole to provide a filtered inlet point. The pointed PVC tip is also suitable for pushing into very loose sands at the base of a bore hole, a stream or into very loose tailings/pond sediments. The 601 point is excellent for sampling metals as it is composed of a preformed Vyton tube set inside a perforated PVC piezometer tip. The point connects to 3/4in. (20 mm) PVC pipe.



### What equipment can I use with a Solinst Drive Point well?

- Waterra Footvalves
- Narrow Interface Meters
- Narrow Water Level Meters
- Narrow diameter bailers
- Peristaltic Pumps

### Order Information

<b>SOL102081</b>	SS 615 Piezometer with barb, 300mm
<b>SOL102842</b>	SS 615N Piezometer without barb, 300mm
<b>SOL101071</b>	90cm SS 3/4in. extension
<b>SOL100620</b>	SS coupling
<b>SOL102174</b>	Manual slide hammer, 11kg
<b>SOL102932</b>	Manual drive head assembly. Includes: drive head, 600mm rod and tubing bypass
<b>SOL101387</b>	Manual drive head
<b>SOL102475</b>	Manual tubing by-pass
<b>SOL102433</b>	601 PVC Piezometer, 150mm long screen
<b>SOL100396</b>	601 PVC Piezometer, 300mm long screen

**ThermoFisher**  
S C I E N T I F I C

**Australia:** For customer service, call 1300-735-295

Visit us online at: [www.thermofisher.com.au](http://www.thermofisher.com.au)

**New Zealand:** For customer service, call 0800-933-966

Visit us online at: [www.thermofisher.co.nz](http://www.thermofisher.co.nz)

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