

Wisconsin Department of Natural Resources Approved NR 812 Wellhead Equipment including Pitless Adapters/Units and Well Caps/Seals

Product Category	Manufacturer/Distributor	Product Name	Materials(s)	Description	Special Conditions/Notes
Well Cap	A&B Die Casting	Well Cap - 6 inch diameter	Cast Aluminum	Overlapping well seal with electric conduit socket and downward facing screened vent. Neoprene gasket.	None
Conduit Connector	American Granby	Conduit Connector Fitting	Brass	Two part brass casting that is designed to bolt through the sides of 5-8 inch diameter well casings to accept a 1-inch diameter NPT conduit for the entry of electrical service for a submersible pump. A 1/4 " rubber gasket seals the fitting water-tight to the side of the casing.	NR 812 requires the hole in the side of the well casing, through which this fitting is installed, to be at least 12" above grade.
Well Vent	American Granby	Well Vent - Pipe Style	Steel	A screened, 1/2 inch diameter, u-shaped, bent and chrome plated vent pipe designed to fit directly onto the top of most sanitary (and some overlapping) style wellhead seals.	At least two of these vent pipes need to be installed on each well cap to provide the minimum screened vent area required by code.
Well Vent	American Granby	Well Vent - Double Style	Cast Iron	A cast iron downward facing vent housing that provides two 3/4-inch diameter screened vent holes. The vent fixture is designed to attach to the top of an upward facing 1/2 inch diameter NPT pipe fitting that extends vertically above the top most sanitary (and some overlapping) style wellhead seals.	None
Cable Seals	Baker Manufacturing	PS and UK Model Cable Seals	Neoprene	Specially cast gaskets that are compressed between two steel plates to seal up to 4 individual wires water-tight within 1 to 3-inch diameter electrical conduits.	These mechanical seals for the electrical conduit entry into the well provide a positive seal that is superior to caulked conduit seals.
Pitless adapter - BT	Baker Manufacturing	Model 1BT, 100 BT and 125 BT Brassy Pitless adapter	Brass	Pitless adapter with an integrated bolt and washer design. The adapter attaches to the casing by cutting a hole in the thermoplastic casing and then tightening down a washer to compress a neoprene gasket water-tight to the casing. Designed for 1- and 1 1/4-inch drop pipe.	May only be installed for private unconsolidated formation wells with thermoplastic well casing and permanently attached screen.
Pitless adapter - CO	Baker Manufacturing	Snappy Clamp-on Pitless adapter	Steel	A family of pitless adapters that are shaped to clamp flush onto the exterior surface of 4, 5 and 6 inch diameter steel or PVC well casings compressing a neoprene 'o' ring against the outer casing surface to seal the well casing water-tight. A 'U' shaped threaded strap is used to clamp the discharge pipe fitting around the outside of the well casing. The cast iron riser pipe elbow is designed to slide into the outer casing saddle to seal pressure tight to the casing saddle with a neoprene 'O' ring bayonet style fitting.	Not allowed for installation on public water supplies without prior approval.

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Pitless adapter - CO	Baker Manufacturing	Bulldog Clamp-on Pitless adapter	Steel/Brass	A family of pitless adapters that are shaped to clamp flush onto the exterior surface of 4, 5 and 6 inch diameter steel or PVC well casings compressing a neoprene 'o' ring against the outer casing surface to seal the well casing water-tight. A 'U' shaped threaded strap is used to clamp the discharge pipe fitting around the outside of the well casing. The cast iron riser pipe elbow is designed to slide into the outer casing saddle to seal pressure tight to the casing saddle with a neoprene 'O' ring bayonet style fitting. Discharge ell is cast from low lead content brass alloy.	Not allowed for installation on public water supplies without prior approval.
Pitless adapter - CO	Baker Manufacturing	Monitor BEZLF series Clamp-on Pitless adapter	Steel	A series of clamp-on pitless adapters with lead-free components for 5 and 6 inch diameter well casings.	Not allowed for installation on public water supplies without prior approval.
Pitless adapter - Spool	Baker Manufacturing	Fiber Reinforced PVC Spool adapter	PVC/Fiberglass	A cast, fiber reinforced, PVC spool style adapter designed to be solvent welded or threaded onto the top of 4 and 5 inch diameter well casings. A threaded pipe adapter is available to solvent weld into the top of the spool housing to allow a steel riser pipe to be attached to the top of the adapter housing to extend the top of the adapter installation through the soil frost penetration zone.	None
Pitless adapter - WO	Baker Manufacturing	Snappy Weld-on Pitless adapter	Steel	A family of pitless adapters that are shaped to be welded flush onto the exterior surface of 4, 5 and 6 inch diameter steel well casings. The cast iron riser pipe elbow is designed to slide into the outer casing saddle to seal pressure tight to the casing saddle with a neoprene 'O' ring bayonet style fitting.	None
Pitless adapter - WO	Baker Manufacturing	Bulldog Weld-on Pitless adapter	Steel/Brass	A family of pitless adapters that are shaped to be welded flush onto the exterior surface of 4, 5 and 6 inch diameter steel well casings. The cast iron riser pipe elbow is designed to slide into the outer casing saddle to seal pressure tight to the casing saddle with a neoprene 'O' ring bayonet style fitting. Discharge ell is cast from low lead content brass alloy.	None
Pitless adapter - WO	Baker Manufacturing	Monitor 8123 BEZ Weld-on Pitless adapter	Steel	Steel weld-on pitless adapter.	None
Pitless adapter - WO	Baker Manufacturing	Monitor 6123BEZ Weld-on Pitless adapter	Steel	Weld-on Pitless adapter for 5 and 6 inch diameter steel well casings.	None
Pitless adapter - WO	Baker Manufacturing	Monitor BEZLF series Weld-on Pitless adapter	Steel	A series of weld-on pitless adapters with lead-free components for 4,5,6,7,8,10, 12 and 14 inch diameter steel well casings.	None

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Product Category	Manufacturer/Distributor	Product Name	Materials(s)	Description	Special Conditions/Notes
Pitless Unit	Baker Manufacturing	Model PS Domestic Pitless Unit	Steel	Pitless spool style unit that is produced in different sized for 4, 5 and 6 inch diameter well casings. Two styles of the cast steel spool receptacle are designed to either thread or weld onto the top of the well casing at the bottom of steel riser pipes that are available in lengths up to 8 feet.	None
Pitless Unit	Baker Manufacturing	Model PS Industrial Pitless Unit	Steel	Higher capacity spool style unit produced in different sized for 6, 7, 8, 10, 12 and 16 inch diameter steel well casings. The 6, 7 and 8 inch diameter units are designed to either weld or thread onto the top of the well casing. The three largest diameter units are designed only to weld onto the top of the well casing. All six sizes are supplied with either C-4 or C-5 model well caps. All units are offered with various check valve assemblies for the spool to maintain system pressurization.	None
Pitless Unit	Baker Manufacturing	Custom Industrial Pitless Unit	Steel	A heavy duty version of the Model PS Industrial Pitless Unit that is produced in different sizes designed to be welded onto the top of 10, 12,14, 16, 18, 20, 24 and 26 inch diameter steel well casings.	None
Pitless Unit	Baker Manufacturing	Pitless Jet Pump Unit	Cast Iron	A cast iron pitless adapter styled like a plumbing 'T' fitting that connects a concentric pressurized encasement pipe for the lateral suction pipe in accordance with code requirements onto 2, 3, 4 and 6 inch diameter well casings. Variations of the design of the internal spool that is a part of this unit accommodate either single drop pipe or double jet pipe style installations. The units are produced with either solid or vented model well caps as appropriate for the drop pipe design.	None
Pitless Unit	Baker Manufacturing	Monitor 83 BEZ, 103 BEZ and 123 BEZ Pitless Units	Steel	Factory-welded pitless units for submersible pumps.	None
Well Cap	Baker Manufacturing	Turtle (Economy) Well Cap	Cast Iron with PVC Fittings or PVC	Variations of this overlapping style well cap for 4, 5 and 6 inch diameter well casings. The cast iron casing mounting ring models are designed to compress a neoprene 'O' ring against the outer wall of the well casing while all PVC models are designed to solvent weld to the top of the OVC well casing. All models include downward facing, screened vent holes and NPT electrical conduit sockets. Some variations allow for installation of pellet chlorinator equipment.	None

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Well Cap	Baker Manufacturing	C4 Model Well Cap	Cast Iron	A heavy duty, overlapping style well cap designed to fit on 5, 6, 7, 10, and 12 inch diameter well casings with below grade discharge pipelines. A two part steel mounting ring is used to compress a thick neoprene gasket to seal the cap to the outside of the well casing water-tight. A second thick neoprene gasket seals the cap to the casing mounting ring. Large diameter NPT pipe sockets are provided for attachment of separate electrical conduit sockets and upward facing vent riser pipes.	None
Well Cap	Baker Manufacturing	C5 Model Well Cap	Cast Iron	Identical to C4 Model cap except that each cap includes a suitably sized PS model screened vent and riser pipe installed in the NPT vent socket.	
Well Vent	Baker Manufacturing	Model PS Well Vent	Cast Iron	Downward facing, brass screened venting fixture that is designed to attach to the top of vertical NPT vent pipes.	None
Well Cap	Baron Co.	Baron Well Cap	Steel	Vermin-proof well cap.	None
Well Cap	Boshart Industries	Boshart Vermin-Proof Well Cap	Aluminum	Vermin-proof Well Cap for 6 inch diameter wells.	None
Well Cap	Boshart Industries	Boshart WTMC-A06, WTCL-A08, A10 and A12 Vermin-Proof Well Cap	Aluminum	Vermin-proof Well Cap for 6, 8, 10 and 12 inch diameter wells.	None
Conduit Connector	Campbell Manufacturing	Conduit Connector Spud	Brass	Various models of this equipment series of two part brass castings are designed to bolt through the sides of 5 through 12 inch diameter well casings to accept 1 to 2 inch diameter NPT conduit for the entry of electrical service into the well for submersible pump installations.	NR 812 requires the hole in the side of the well casing, through which this fitting is installed, to be at least 12" above grade.
Pitless adapter - BT	Campbell Manufacturing	Models S & SP Bolt-through Pitless adapters		Pitless adapter with an integrated bolt and washer design. The adapter attaches to the casing by cutting a hole in the thermoplastic casing and then tightening down a washer to compress a neoprene gasket water-tight to the casing. Designed for 5 through 10 inch diameter thermoplastic well casings.	May only be installed for private unconsolidated formation wells with thermoplastic well casing and permanently attached screen.
Pitless adapter - BT	Campbell Manufacturing	Models B, BP, BC and BCP Bolt-through Pitless adapters		Pitless adapter with an integrated bolt and washer design. The adapter attaches to the casing by cutting a hole in the thermoplastic casing and then tightening down a washer to compress a neoprene gasket water-tight to the casing. Designed for 5 through 8 inch diameter thermoplastic well casings.	May only be installed for private unconsolidated formation wells with thermoplastic well casing and permanently attached screen.
Well Vent	Campbell Manufacturing	Mushroom Style 3/4 inch Diameter Well Vent	Cast Iron	Downward facing, brass screened venting fixture that is designed to attach to the top of vertical NPT vent pipes.	None

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Well Seal	Clayton Mark	Model 459S Well Cap	Cast Iron	Sanitary style wellhead seal produced with varying sizes of separate NPT electrical conduit and vent pipe attachment sockets and a non-threaded center located pump riser pipe socket. A thick neoprene gasket is compressed between the upper and lower steel plates to seal the top of standard 4, 5, 6, 8, 10 and 12 inch diameter steel well casings water-tight.	Only single plate sanitary well seals are allowed unless a substantial, weather proof shelter meeting the requirements of NR 812.40 is constructed over the well.
Well Vent	Clayton Mark	Model 466 Well Vent Pipe	Steel	A screened, 1/2 inch diameter, u-shaped, bent and chrome plated vent pipe designed to fit directly onto the top of most sanitary (and some overlapping) style wellhead seals.	At least two of these vent pipes need to be installed on each well cap to provide the minimum screened vent area required by code.
Well Cap	Dave Ludwig Industrial Sales	Advance Well Cap	Steel	Vermin-proof well cap.	None
In-well Pressure Tank	Flexcon Industries	FTI-45 Inline Well Tank	Stainless Steel	Cylindrical stainless steel tank to be installed within a well casing.	
Pitless Unit - PCM	H2Optimal, Inc.	Pitless Control Module (PCM)		Pitless unit with a PVC housing for pressure tank and control device.	None
Pitless Unit - PCM	H2Optimal, Inc.	H2Optimal Control Module Pit		Modification of a pitless unit with PVC housing for pressure tank and controls.	None
Pitless Unit - Spool	Hoepfner Products	Freeze Flow PVC Spool Pitless Unit	PVC	Thermoplastic spool pitless unit for submersible pumps.	None
In-well Pressure Tank	In-Well Technologies	In-well Pressure Tank	Stainless Steel	Cylindrical stainless steel tank to be installed within a well casing.	None
Well Screen	Jayco Screen Co.	Wrapped-on-pipe Screen	PVC	Non-continuous slot PVC well screen.	None
Well Screen	Jayco Screen Co.	Rib-type Screen	PVC	Non-continuous slot PVC well screen.	None
Well Cap	John C. Rasmussen	Clean Well Cap		Vermin-proof well cap with filter vent.	None
Well Cap	John C. Rasmussen	Clean Well Cap with HEPA Filter		Vermin-proof well cap with Type A HEPA vent filter.	None
Well Cap	Kleiman Pump and Well	Brothers Model Well Cap	Aluminum	A cast aluminum, overlapping style wellhead seal with a 3/4 inch NPT conduit socket and downward facing brass screen. The wellhead seal is designed to fit standard, 6 inch diameter steel well casings utilizing a thick neoprene gasket that is clamped between two casing mounting rings to provide a water-tight seal to the outside of the well casing. A second neoprene gasket is clamped between the cap cover plate and the upper casing mounting ring to seal the cap watertight.	None
Pitless Receiver Tank	Komarek Well Drilling	Tank Tech Stainless Steel Pressure Tank	Stainless Steel	304 hydro-pneumatic pressure tank.	Not allowed for installation on other-than-municipal public water supplies (i.e. mobile home parks, subdivisions) without prior approval.

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In-well Air Filter	KRYS Enterprise	KRYS In-the-Well Air Filter	Foam/Plastic	Bushing with filter element.	None
Well Cap	Lunde Foundry	4 to 8 Inch Diameter Well Caps	Aluminum	A cast aluminum, overlapping style wellhead seal for 4, 5, 6, 7 and 8 inch diameter well casings with below ground discharges. The casing mounting ring includes a 1 1/4 inch NPT electric conduit socket and a downward facing, 1 inch diameter screened vent. A 1/4 inch thick neoprene gasket seals the cap cover to both the casing mounting ring and the outside of the well casing.	None
Well Cap	Lunde Foundry	10 and 12 Inch Diameter Well Caps	Aluminum	A cast aluminum, overlapping style wellhead seal for 10 and 12 inch diameter well casings with below ground discharges. The casing mounting ring includes a 2 inch NPT electric conduit socket and two downward facing, 1 inch diameter screened vent. A 1/4 inch thick neoprene gasket seals the cap cover to both the casing mounting ring and the outside of the well casing.	None
Conduit Connector	Maas Midwest	Conduit Connector Spud	Brass	Various models of this equipment series of two part brass castings are designed to bolt through the sides of 6 through 12 inch diameter well casings to accept 1 inch diameter NPT conduit for the entry of electrical service into the well for submersible pump installations. A 1/4 inch thick rubber gasket that is compressed when the two fitting parts are bolted together seals the fitting water-tight to the side of the well casing.	NR 812 requires the hole in the side of the well casing, through which this fitting is installed, to be at least 12" above grade.
Pitless adapter	Maas Midwest	Maas-Midwest System-Drain Pitless adapters		Model J, JC and JX style adapters/units with an appurtenance to drain the water system.	None
Pitless adapter - BT	Maas Midwest	Models LD & S Bolt-through Pitless adapters		Pitless adapter with an integrated bolt and washer design. The adapter attaches to the casing by cutting a hole in the thermoplastic casing and then tightening down a washer to compress a neoprene gasket water-tight to the casing. Designed for 5 through 8 inch diameter thermoplastic well casings.	May only be installed for private unconsolidated formation wells with thermoplastic well casing and permanently attached screen.
Pitless adapter - CO	Maas Midwest	Model JC Clamp-on Pitless adapter	Cast Iron	A heavy duty pitless adapter housing that is designed to clamp around the outside of 4, 5, 6 and 7 inch diameter steel well casings to support an internally mounted discharge ell that hangs over the top of an angled vertical riser pipe. The discharge ell connection o the adapter housing is sealed with a neoprene 'O' ring to contain system pressure.	Not allowed for installation on public water supplies without prior approval.

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Pitless adapter - CO	Maas Midwest	Model KK Clamp-on Pitless adapter	Brass	A series of cast brass pitless adapter housings that are designed to clamp around the outside of 4, 5 and 6 inch diameter steel well casings to support an internally mounted discharge ell that wedges by gravity to seal against the inside face of the adapter housing using a neoprene 'O' ring to contain system pressure. A stainless steel 'U' bolt is used to clamp the adapter housing water-tight to the outside of the well casing by compressing a thick 'O' ring between the adapter housing and the well casing surface.	Not allowed for installation on public water supplies without prior approval.
Pitless adapter - CO	Maas Midwest	Model CW Clamp-on Pitless adapter	Brass	A series of cast brass pitless adapter housings that are designed to clamp around the outside of 4, 5 and 6 inch diameter steel well casings to support an internally mounted discharge ell that wedges by gravity to seal against the inside face of the adapter housing using a neoprene 'O' ring to contain system pressure. A stainless steel 'U' bolt is used to clamp the adapter housing water-tight to the outside of the well casing by compressing a thick 'O' ring between the adapter housing and the well casing surface.	Not allowed for installation on public water supply systems. For installation on thermoplastic PVC well casings, the stainless steel 'U' bolt clamp must be replaced with a cast brass clamping saddle that is attached to the adapter housing with two stainless steel bolts.
Pitless adapter - WO	Maas Midwest	Model J Weld-on Pitless adapter	Cast Iron/Steel	A box-shaped, steel pitless adapter housing that is designed to be welded to the outside of 4, 5, 6, 7, 8, 10 and 12 inch diameter steel well casings to support an internally mounted discharge well that wedges by gravity to seal against the inside face of the adapter housing using a neoprene 'O' ring to contain system pressure.	None
Pitless adapter - WO	Maas Midwest	Model JJ Weld-on Pitless adapter	Cast Iron	A variant of the Model J weld-on adapter for 4, 5, 6, 7 and 8 inch diameter steel cased wells that are fitted with suction style offset pumps. The suction transfer pipeline fitting on the exterior of the adapter housing of this model is encased in an external pressurized transfer pipeline connection fitting.	None
Pitless adapter - WO	Maas Midwest	Model B Weld-on Pitless adapter	Cast Iron	A wedge shaped cast iron pitless adapter housing designed to weld onto the outside of 4, 5, 6 and 8 inch diameter steel well casings to support an internally mounted discharge ell that hangs over the top of an angled vertical riser pipe. The discharge ell connection on the adapter housing is sealed with a neoprene 'O' ring to contain system pressure.	None

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Pitless Receiver Tank	Maas Midwest	Pitless Receiver Tank	Steel	A Model JX1 shop assembled pitless adapter unit for 4, 5 and 6 inch diameter well casings that includes an attached 30-inch diameter, 95 or 145 gallon rated, 1/4 inch thick steel wall, buried pressure tank. The pressure tank concentrically encases both the pitless adapter discharge port and a portion of the steel riser pipe above the adapter fitting.	Not allowed for installation on other-than- municipal public water supplies (i.e. mobile home parks and subdivisions) without prior approval.
Pitless Unit	Maas Midwest	Model JX1 Pitless Unit	Cast Iron	A shop assembled pitless adapter unit manufactured by welding a model J pitless adapter onto a length of standard weight well casing. The well casings are available with either threaded or plain ends for threaded attachment to standard weight plastic or steel well casings or welded attachment to steel well casings.	None
Pitless Unit	Maas Midwest	Model JX Short Pitless Unit	Cast Iron	A variant of the Model JX1 pitless unit that has the Model J pitless adapter shop welded to a 1-foot length of standard weight steel well casing. Both the top and bottom ends of the casing are threaded to allow attachment to variable length riser pipes to accommodate different depths of transfer pipeline burial.	None
Pitless Unit	Maas Midwest	Model BX1 Pitless Unit	Cast Iron	A shop assembled pitless adapter unit manufactured by welding a model B pitless adapter onto a length of standard weight well casing. The well casings are available with either threaded or plain ends for threaded attachment to standard weight plastic or steel well casings.	None
Pitless Unit	Maas Midwest	Model BX Short Pitless Unit	Cast Iron	A variant of the Model BX1 pitless unit that has the Model B pitless adapter shop welded to a 1-foot length of standard weight steel well casing. Both the top and bottom ends of the casing are threaded to allow attachment to variable length riser pipes to accommodate different depths of transfer pipeline burial.	None
Pitless Unit - Spool	Maas Midwest	Model MB Pitless Unit	Steel	An all-steel higher capacity spool style pitless unit that is produced in different sizes for 8, 10, 12, 14, 16 inch and larger diameter steel well casings. Both the well casing and lateral discharge pipeline connections to the unit are designed to be welded. The units are provided with gasketed overlapping steel caps that include double style well vents and water-tight electrical conduit boxes.	None

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Well Cap	Maas Midwest	Watertight Well Cap	Aluminum	A cast aluminum, overlapping style wellhead seal for 4, 5, 6, 6 5/8, 7 and 8 inch diameter well casings with below ground discharges. The casing mounting ring includes a 1 1/4 inch NPT electric conduit socket and a downward facing, 1/2 inch diameter screened vent. A 1/4 inch thick neoprene gasket seals the cap cover to both the casing mounting ring and the outside of the well casing. A variation of this cap design replaces the two downward facing screened vent holes with a 1 inch NPT riser pipe opening in the top cover for allow for the attachment of a double style well vent for increased venting area.	None
Well Cap	Maas Midwest	WTCC Well Cap	Aluminum	An overlapping style wellhead seal for 4, 5, 6 and 8 inch diameter well casings with below ground discharges. The casing mounting ring includes a 1 inch NPT electric conduit socket and a downward facing, 3/4 inch diameter screened vent. A 1/4 inch thick neoprene gasket seals the cap cover to both the casing mounting ring and the outside of the well casing.	None
Well Screen	Maas Midwest	MeshRite Screen	Steel	Non-continuous slot well screen.	None
Well Seal	Maas Midwest	459S Sanitary Style Well Cap	Cast Iron	A sanitary style wellhead seal with separate NPT electrical conduit and vent pipe attachment sockets and a non-threaded center located pump riser pipe socket. A thick neoprene gasket is compressed between the upper and lower steel plates to seal the top of standard 4, 5 and 6 inch diameter steel well casings water-tight.	Only single plate sanitary well seals are allowed unless a substantial, weather proof shelter meeting the requirements of NR 812.40 is constructed over the well.
Well Vent	Maas Midwest	Double Style Well Vent	Cast Iron	A double 'U' pipe fitting with tow screened vents that threads onto the vertical 1 inch NPT venting riser pipe for the top of the water-tight model well cap to provide over 4 square inches of downward facing screened vent opening for the well cap.	None
Pitless adapter - CO	Merrill Manufacturing	Model MCK Clamp-on Pitless adapter	Brass	A family of cast brass well casing saddles designed to clamp flush to the exterior surface of 4, 5 and 6 inch diameter steel and PVC well casings compressing a neoprene 'O' ring against the outer casing surface to seal the well casing water-tight. The discharge ell is identical to the design used in the model SP pitless unit.	Not allowed for installation on public water supply systems. For installation on thermoplastic PVC well casings, the standard zinc plated 'U' bolt clamp must be replaced with a stainless steel 'U' bolt and a 1 inch wide bolting saddle strap installed between the 'U' bolt and the well casing.

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Pitless adapter - CO	Merrill Manufacturing	Model SMCK Clamp-on Pitless adapter	Stainless Steel	Identical to MCK model clamp-on pitless adapter except that it is made of stainless steel.	Not allowed for installation on public water supply systems. For installation on thermoplastic PVC well casings, the standard zinc plated 'U' bolt clamp must be replaced with a stainless steel 'U' bolt and a 1 inch wide bolting saddle strap installed between the 'U' bolt and the well casing.
Pitless adapter - CO	Merrill Manufacturing	Model SPK Clamp-on Pitless adapter	Cast Iron	Identical to the model MPK clamp-on pitless adapter except that the casing saddle is cast from iron to fit 4, 5, 6, 8 and 10 inch diameter steel and thermoplastic well casings.	Not allowed for installation on public water supply systems. For installation on thermoplastic PVC well casings, the standard zinc plated 'U' bolt clamp must be replaced with a stainless steel 'U' bolt and a 1 inch wide bolting saddle strap installed between the 'U' bolt and the well casing.
Pitless Unit	Merrill Manufacturing	Model SP Pitless Unit	Steel	Pitless unit produced in different sizes for 4, 5, 6 and 8 inch diameter threaded well casings. The units are available for lateral pipe burial depth of 1 through 8 feet. The internally mounted discharge ell hangs from a cast iron 'T' fitting that is supported by the top rim of the well casing. A screw driven wedge drives a thick 'O' ring against the inside wall of the well casing to seal the system plumbing water-tight. All the units are proved with appropriately sized WC model vented well caps.	None
Pitless Unit	Merrill Manufacturing	Model SPP Pitless Unit	Steel	Identical to the design of the SP Pitless unit for 4, 5 and 6 inch diameter threaded well casings except the discharge fixture and riser pipe ell are cast from plain steel and a thicker neoprene spud gasket is used to seal the riser pipe discharge ell water-tight against the inside of the well casing, instead of the 'O' ring used in the SP unit.	None

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Well Cap	Merrill Manufacturing	Model WC Well Cap	Cast Iron	An overlapping style wellhead seal for 4, 5, 6 and 8 inch diameter well casings with below ground discharges. A lower casing mounting ring is used to compress a neoprene gasket to the outside of the well casing to seal the cap water-tight to the well casing. A neoprene 'O' ring is used to seal the cover plate water-tight to the top of the well cap body. Various sizes of this line of well caps provide for threaded attachment of 3/4 to 1 inch NPT screened venting ells and 1 to 1 1/2 inch diameter NPT electrical conduit pipes.	None
Well Cap	Merrill Manufacturing	Model WCA Well Cap	Aluminum	An overlapping style wellhead seal for 4, 5 and 6 inch diameter well casings with below ground discharges. The casing mounting ring includes a 1 1/4 inch NPT electric conduit socket and a downward facing, 3/4 inch diameter screened vent. A neoprene 'O' ring is used to seal the cover plate water-tight to the top of the well cap body.	None
Well Cap	Merrill Manufacturing	Model WCB Well Cap	Cast Iron	A heavy duty, overlapping style well cap designed to fit on 4, 5 and 6 inch diameter well casings with below grade discharge pipelines. A two part steel mounting ring is used to compress a thick neoprene gasket to seal the cap to the outside of the well casing water-tight. A second thick neoprene gasket seals the cap to the top casing mounting ring. Large diameter NPT pipe sockets are provided for attachment of separate electrical conduit sockets and upward facing venting 'U' riser pipes.	None
Well Cap	Merrill Manufacturing	Model WCD Well Cap	Aluminum	An overlapping style wellhead seal for 4, 5 and 6 inch diameter well casings with below ground discharges. The casing mounting ring includes a 1 to 1 1/2 inch NPT electric conduit socket and a downward facing, 3/4 inch diameter screened vent. A neoprene 'O' ring is used to seal the cover plate water-tight to both the top of the well cap body and the outside of the well casing.	None
Well Cap	Merrill Manufacturing	Model WCM-6 Well Cap	Cast Iron	An overlapping style wellhead seal for 6 inch diameter well casings with below grade discharges. The casing mounting ring includes a 1 1/4 inch NPT electric conduit socket. The top of the cap is tapped for a 1 inch NPT vent riser pipe for the attachment of threaded mushroom style screened vent fixtures. A thick neoprene gasket seals the cap cover to both the casing mounting ring and the outside of the well casing.	None

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Well Cap	Merrill Manufacturing	Model WCPG500 Well Cap	Aluminum/Plastic	A well cap with a VC plastic casing mounting ring that is designed to be solvent welded onto the exterior of 5 inch diameter PVC well casings. A neoprene 'O' ring seals the aluminum cap water-tight to the plastic casing mounting ring. A downward facing, 3/4 inch diameter screened vent hole is incorporated in the casing mounting ring.	None
Well Cap	Merrill Manufacturing	Model WCO Well Cap	Aluminum	An overlapping style wellhead seal for 4, 5 and 6 inch diameter well casings with below ground discharges. The casing mounting ring includes a 1 inch NPT electric conduit socket and a downward facing, 3/4 inch diameter screened vent. A neoprene 'O' ring is used to seal the cover plate water-tight to both the top of the well cap body and the outside of the well casing. The top of various sizes of the cap is tapped to receive 1 to 1 1/4 inch diameter NPT automatic chlorinator drop pipes.	None
Well Vent	Merrill Manufacturing	Screened Venting U	Cast Iron	A 1 1/4 inch diameter 'U' pipe fitted with a screened vent that is designed to thread onto the vertical NPT vent socket in the top of the model WCB well cap to provide a downward facing screened vent opening.	None
Well Vent	Merrill Manufacturing	Galvanized Venting Ell	Cast Iron	A pipe ell fitted with a screened vent that is provided in two sizes to thread into the horizontal 3/4 and 1 inch NPT vent sockets in the sides of the SP and SPP well cap bodies to provide a downward facing screened vent opening.	None
Well Screen	Monoflex Co.	Monoflex PVC Slotted Well Screen	PVC	Non-continuous slot PVC well screen.	None
Pitless adapter - WO	Morrison-Advance	Weld-on Pitless adapter	Cast Iron	Pitless adapter housing	None
Well Cap	Morrison-Advance	Model AMWT Watertight Well Cap	Cast Aluminum	Overlapping well seal with electric conduit socket and downward facing screened vent. Neoprene gasket. 4, 5 and 6 inch diameter.	None
Wellhead Seal	Morrison-Advance	Morrison Head - Standard	Cast Iron	Combined wellhead seal and above ground discharge for 4,5,6 and 7 inch diameter well casings. A check valve is incorporated in the cap discharge channel to back-drain the riser pipe water for freeze resistance	None
Wellhead Seal	Morrison-Advance	Morrison Head - Deluxe	Cast Iron	Similar to Standard Model, discharge head is cast separately from casing adapter plate to accommodate installation on up to 8 inch diameter well casings.	None
Valve Pit	Mueller Company	Mueller Well Control Vault		Meets the requirements for a valve pit.	None

Wisconsin Department of Natural Resources Approved NR 812 Wellhead Equipment including Pitless Adapters/Units and Well Caps/Seals

Product Category	Manufacturer/Distributor	Product Name	Materials(s)	Description	Special Conditions/Notes
Pitless adapter Coupling	Olson &Olson	Pitless adapter Pressure Coupling	Cast Iron	A shop welded concentric transfer pipeline terminus that is designed to thread into a standard 2 inch NPT cast iron pitless adapter 'T' to connect pressure pipeline encased lateral suction pipes onto 1 1/4 to 2 inch diameter driven pipe style well casings in accordance with code requirements.	None
Well Cap	R&J Foundry	#90 Vented WT Well Cap	Aluminum	An overlapping style wellhead seal for 5 and 6 inch diameter well casings with below ground discharges. The casing mounting ring includes a 1 inch NPT electric conduit socket and a downward facing, oblong shape screened vent. A two part, 1/4 inch thick, overlapping neoprene gasket seals the cap cover to both the casing mounting ring and the outside of the well casing.	None
Well Screen	Roscoe Moss Company	Ful Flo Shutter Screen	Stainless Steel	Stainless Steel Shuttered well Screen	May only be used in unconsolidated formations with a gravel pack
Well Cap	Royer Castings	Bottom Vented Well Cap	Aluminum	An overlapping style wellhead seal for 6 inch diameter well casings with below ground discharges. The casing mounting ring includes a 1 inch NPT electric conduit socket and two downward facing, 5/8 inch diameter screened vent holes. A thick neoprene 'O' ring seals the cap cover to both the casing mounting ring and the outside of the well casing.	None
Well Cap	Royer Castings	Top Vented Well Cap	Aluminum	An overlapping style wellhead seal for 6 inch diameter well casings with below ground discharges. The casing mounting ring includes a 1 inch NPT electric conduit socket and a 1 inch NPT socket in the top cover plate is used to attach a threaded riser pipe and a mushroom style screened vent housing for increased vent area. A thick neoprene 'O' ring seals the cap cover to both the casing mounting ring and the outside of the well casing.	None
Well Seal	Simmons Manufacturing	Sanitary Style Well Cap	Cast Iron	A sanitary style wellhead seal with separate NPT electrical conduit and vent pipe attachment sockets and a non-threaded center located pump riser pipe socket. A thick neoprene gasket is compressed between the upper and lower steel plates to seal the top of 4, 4 1/4, 5, 5 5/8, 6 1/4, 8, 10 and 12 inch diameter steel well casings water-tight.	Only single plate sanitary well seals are allowed unless a substantial, weather proof shelter meeting the requirements of NR 812.40 is constructed over the well.
Well Screen	Titan Industries, Inc.	Hi-Flo PVC Well Screen	PVC	Non-continuous slot PVC well screen.	None

Wisconsin Department of Natural Resources Approved NR 812 Wellhead Equipment including Pitless Adapters/Units and Well Caps/Seals

Product Category	Manufacturer/Distributor	Product Name	Materials(s)	Description	Special Conditions/Notes
Pitless adapter - BT	Water Source, LLC	Models PA100 and PA125 Bolt-through Pitless adapter	Brass	Pitless adapter with an integrated bolt and washer design. The adapter attaches to the casing by cutting a hole in the thermoplastic casing and then tightening down a washer to compress a neoprene gasket water-tight to the casing. Designed for 5 through 8 inch diameter thermoplastic well casings.	May only be installed for private unconsolidated formation wells with thermoplastic well casing and permanently attached screen.
Well Cap	WDB, Inc.	WTC Vermin-proof Well Cap	Thermoplastic	Thermoplastic 8 inch diameter vermin-proof well cap.	None
Pitless adapter - CO	Wells, Inc.	Aqua Seal Clamp-on Pitless adapter	Brass	A family of cast brass well casing saddles designed to clamp flush to the exterior surface of 4, 4 1/2, 5, 5 5/8 and 6 inch diameter steel and PVC well casings. A solid Buna-N 'O' ring is used to seal the saddle against the outer casing surface to seal the well casing water-tight. The cast brass riser pipe elbow is designed to slide into the outer casing saddle to seal pressure tight to the casing saddle with an 'O' ring bayonet style fitting. Zinc plated steel 'U' bolts are provided with the adapters for use on steel well casings.	Not allowed for installation on public water supply systems. For corrosion and casing protection, stainless steel 'U' bolts with inch wide stainless steel load bearing straps are required for all thermoplastic well casing installations.
Pitless adapter - CO	Wells, Inc.	Safety Seal Clamp-on Pitless adapter	Brass	A family of cast brass well casing saddles designed to clamp flush to the exterior surface of 4, 4 1/2, 5, 5 5/8 and 6 inch diameter steel and PVC well casings. A solid Buna-N 'O' ring is used to seal the saddle against the outer casing surface to seal the well casing water-tight. The cast brass riser pipe elbow is designed to screw/wedge pressure tight against the inner wall of the well casing to provide positive system pressurization of the point of outer saddle connection to the well casing. To accommodate this design feature, a riser pipe extension is designed to be supported by a cast 'T' on the top rim of the well casing. Zinc plated steel 'U' bolts are provided with the adapters for use on steel well casings.	Not allowed for installation on public water supply systems. For corrosion and casing protection, stainless steel 'U' bolts with inch wide stainless steel load bearing straps are required for all thermoplastic well casing installations.
Pitless adapter - CO	Wells, Inc.	TB Series Bolt-on (LF brass) TS Series Bolt-on (316 SS)	TB Brass, TS Stainless Steel	Brass or stainless steel well casing saddles designed to clamp flush to the exterior surface of 4- to 6-inch diameter steel and PVC well casings.	None
Pitless adapter - WO	Wells, Inc.	TBW Series Weld-on (LF Brass) TSW Series Weld-on (316 SS)	TBW Brass, TSW Stainless Steel	Brass or stainless steel tear-drop-shaped well casing saddles designed to be welded-on to the exterior surface of 4- to 6-inch diameter steel casings.	None

Wisconsin Department of Natural Resources Approved NR 812 Wellhead Equipment including Pitless Adapters/Units and Well Caps/Seals

Product Category	Manufacturer/Distributor	Product Name	Materials(s)	Description	Special Conditions/Notes
Well Cap	Wells, Inc.	Aluminum WC and WT Well Caps	Aluminum	An overlapping style wellhead seal for 4, 5, and 6 inch diameter well casings with below ground discharges. The two part (aluminum or ABS) upper casing mounting ring includes a 1 inch NPT electric conduit socket and a downward facing, 3/4 inch diameter screened vent. A 1/4 inch thick neoprene gasket seals the casing mounting ring to the outer surface of the well casing and a thinner gasket seals the top surface of the upper casing mounting ring to the cover plate.	None
Well Cap	Wells, Inc.	Aluminum/ABS Well Cap	Aluminum	An overlapping style wellhead seal for 4, 4 1/2, 5, and 6 inch diameter ABS well casings. The ABS casing mounting ring is designed to solvent weld water-tight to the casing.	None
Pitless adapter - CO	Whitewater Manufacturing	Ace Model F Clamp-On Pitless adapter	Cast Iron	A pitless adapter housing that is designed to clamp flush to the outside of 4, 5, 5 5/8 and 6 inch diameter steel well casings by compressing a neoprene 'O' ring against the outer casing surface to seal water-tight. The housing supports an internally mounted discharge ell that hangs on the top of a horizontal transfer pipe fitting. The connection of the discharge ell to the adapter housing is sealed with a neoprene gasket to contain system pressure.	Not allowed for installation on public water supply systems. For corrosion and casing protection, stainless steel 'U' bolts with inch wide stainless steel load bearing straps are required for all thermoplastic well casing installations.
Pitless adapter - WO	Whitewater Manufacturing	Model F Weld-On Pitless adapter	Cast Iron	A pitless adapter housing that is designed to be welded to the outside of 4, 5, 6 and 8 inch diameter steel well casings to support an internally mounted discharge ell that hangs on the top of a horizontal transfer pipe fitting. The connection of the discharge ell to the adapter housing is sealed with a neoprene gasket to contain system pressure.	None
Pitless Receiver Tank	Whitewater Manufacturing	Model A Pitless Receiver Tank	Cast Iron/Steel	A pitless well discharge unit that combines the various sized Model B pitless discharge units with concentric pitless receiver tanks ranging in size from 60 to 1,000 gallons of total tank volume.	Not allowed for installation on other-than- municipal public water supplies (i.e. mobile home parks, subdivisions) without prior approval.
Pitless Unit	Whitewater Manufacturing	Model 7010 (Duplex) Pitless Unit	Cast Iron	A spool style adapter designed to be threaded onto the top of 4, 5 and 6 inch diameter steel and plastic well casings. An increased diameter, threaded well casing extension is provided to be threaded onto the top of the spool housing to extend the well casing above ground surface through the soil frost penetration zone.	None

Wisconsin Department of Natural Resources Approved NR 812 Wellhead Equipment including Pitless Adapters/Units and Well Caps/Seals

Product Category	Manufacturer/Distributor	Product Name	Materials(s)	Description	Special Conditions/Notes
Pitless Unit	Whitewater Manufacturing	Model 1060 (Duplex) Pitless adapter	Cast Iron	A cast iron pitless 'T' that provides a fitting to attach a concentric pressurized encasement pipe for the lateral suction pipe, in accordance with code requirements, onto 2 inch diameter well casings. Variations of the design of the internal spool that is a part of this unit accommodate either shallow, deep or ejector style well pump installations. The units are produced with various length well casing extension pipes for frost protection and with either solid or vented model well caps as appropriate for the drop pipe design.	None
Pitless Unit - Spool	Whitewater Manufacturing	Model J Pitless Unit	Cast Iron/Steel	A spool style pitless discharge unit made of shop welded iron castings and seal pipe for 2 inch diameter well casings connected to offset pumps. The casting provides a discharge pipeline fitting to attach a concentric pressurized encasement pipe for the offset pump's lateral suction pipe in accordance with code requirements. Variations of the design of the internal spool and the lateral pipe attachment fittings accommodate either simple suction style drop pipes or pressurized, deep well installations.	None
Pitless Unit - Spool	Whitewater Manufacturing	Model B Pitless Unit	Cast Iron/Steel	A spool style pitless discharge unit made of shop welded iron castings and steel pipe for 4, 5, 6, 8, 10 and 12 inch diameter well casings fitted with submersible pumps. The units are manufactured with either threaded or beveled (for welding) connections to the well casing.	None
Well Cap	Whitewater Manufacturing	Model 200 Well Cap	Aluminum	An overlapping style wellhead seal for selected sizes of 4 through 20 inch steel well casings. The cover plate includes an integral conduit connector box with a gasketed, removable top lid and bottom side 1 1/4 inch diameter NPT conduit fitting. The sides of the connector box are tapped for installation of a pair of 1/2 inch diameter NPT venting elbows. A thick neoprene gasket is compressed inside the well casing by bolting top and bottom metal plates together in the same fashion as used to seal sanitary style wellhead seals.	None
Well Cap	Whitewater Manufacturing	Model 300 Well Cap	Cast Iron	A heavy duty, overlapping style well cap designed to fit on 4, 5 and 6 inch diameter well casings with below grade discharge pipelines. A two part steel mounting ring is used to compress a thick neoprene gasket to seal the cap to the outside of the well casing water-tight. The upper casing mounting ring includes both a downward facing screened vent and an NPT pipe socket for attachment of a threaded electrical conduit.	None

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Product Category	Manufacturer/Distributor	Product Name	Materials(s)	Description	Special Conditions/Notes
Well Cap	Williams Products	WTV Model Well Cap	Aluminum	An overlapping style wellhead seal for 6 inch diameter well casings with below ground discharges. The casing mounting ring includes a 3/4 to 1 inch NPT electric conduit socket and the cover plate includes a raised, downward facing, 1-inch diameter, screened mushroom style vent structure. A 1/4 inch thick neoprene gasket seals the cap cover to both the casing mounting ring and the outside of the well casing.	None
Pitless adapter - BT	Williams Products (Rights now owned by Baker Manufacturing)	Brass Bolt-through Pitless adapter	Brass	Pitless adapter with an integrated bolt and washer design. The adapter attaches to the casing by cutting a hole in the thermoplastic casing and then tightening down a washer to compress a neoprene gasket water-tight to the casing. Designed for 5 through 8 inch diameter thermoplastic well casings.	May only be installed for private unconsolidated formation wells with thermoplastic well casing and permanently attached screen.