

PWEagle

Eagle-Loc™ Well Casing
— AND —
PVC Drop Pipe

patent pending



Eagle-Loc™ Well Casing
Engineered for
Straighter Alignment
& Easier Installation



PWEagle

Well
Products

Eagle-Loc™ Well Casing

Eagle-Loc™ Features...

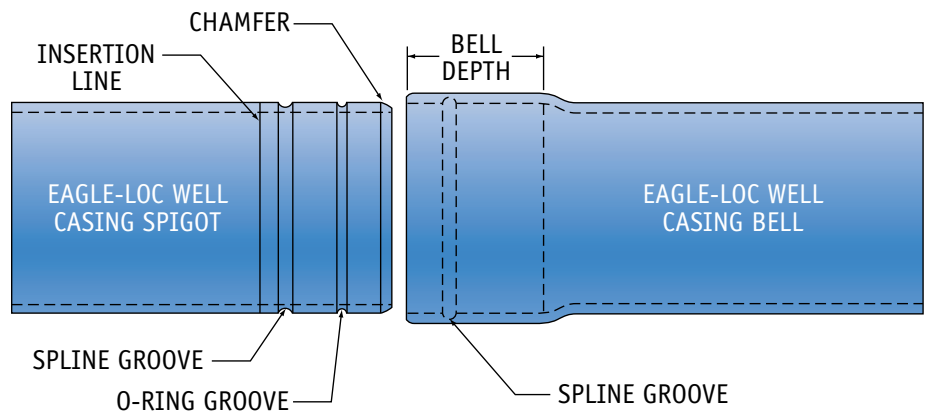
Deep bell provides a straighter more stable alignment for easier installation.

Unique spline-locking system forms a strong, water-tight joint without cement.

The spigot end is chamfered for easier assembly.

Eagle-Loc™ can be utilized in any well casing application where solvent-weld PVC well casing is used.

Strong, Reliab



Material Properties per ASTM D 1784

Properties	Standard	Unit	Value
Tensile Strength	ASTM D 638	psi	7,000
Modulus of Elasticity in Tension	ASTM D 638	psi	400,000
Izod Impact Strength	ASTM D 256	ft-lb/inch of notch	0.65
Deflection Temperature at 264 psi stress	ASTM D 648	°F	158
Flammability	ASTM D 635	seconds	<10

SDR 21

Nominal Pipe Size (inches)	Maximum Bell Outside Diameter (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Max Allowable Tensile Load on Joints (lbs)	Ultimate Collapse Pressure (psi)	Approximate Weight (lbs/100 ft)
5	6½	5.563	5.01	0.265	5,900	110	290
6	7¾	6.625	5.96	0.316	8,800	110	410

SDR 17

Nominal Pipe Size (inches)	Maximum Bell Outside Diameter (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Max Allowable Tensile Load on Joints (lbs)	Ultimate Collapse Pressure (psi)	Approximate Weight (lbs/100 ft)
4½	5¾	4.950	4.34	0.291	4,700	210	280
5	6½	5.563	4.88	0.327	8,500	210	350
6	7¾	6.625	5.81	0.390	10,000	210	500

Schedule 40

Nominal Pipe Size (inches)	Maximum Bell Outside Diameter (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Max Allowable Tensile Load on Joints (lbs)	Ultimate Collapse Pressure (psi)	Approximate Weight (lbs/100 ft)
4	5¼	4.500	4.00	0.237	3,700	150	210
4½	5¾	4.950	4.43	0.248	4,500	130	240
6	7¾	6.625	6.04	0.280	7,600	77	370

Ideal for these applications:

- Domestic
- Municipal
- Industrial
- Dewatering

Simple and Easy to Install

PIPE						
Pipe Size (inches)	Pipe Type	Pieces Per Crate	Feet Per Crate	Crates Per Truckload	Lbs Per Crate	Lbs Per Truckload
4	Sch 40	29	580	28	1,220	34,100
4½	Sch 40	26	520	24	1,250	30,000
4½	SDR 17	26	520	24	1,460	34,900
5	SDR 21	23	460	24	1,330	32,000
5	SDR 17	23	460	24	1,610	38,600
6	Sch 40	20	400	20	1,480	29,600
6	SDR 21	20	400	20	1,640	32,800
6	SDR 17	20	400	20	2,000	40,000

Bell Length	
Pipe Size (inches)	Typical Bell Length (inches)
4	3¾
4½	3¾
5	3¾
6	3½

Eagle-Loc™ Slotted Pipe

Eagle-Loc™ Slotted Pipe is available in a variety of slot openings and slot spacing to suit a multitude of applications.

Eagle-Loc™ pipe is stocked in slot widths of 0.016, 0.020, 0.025 and 0.032 inch. Other slot widths are available upon request.



Eagle-Loc™ Well Casing

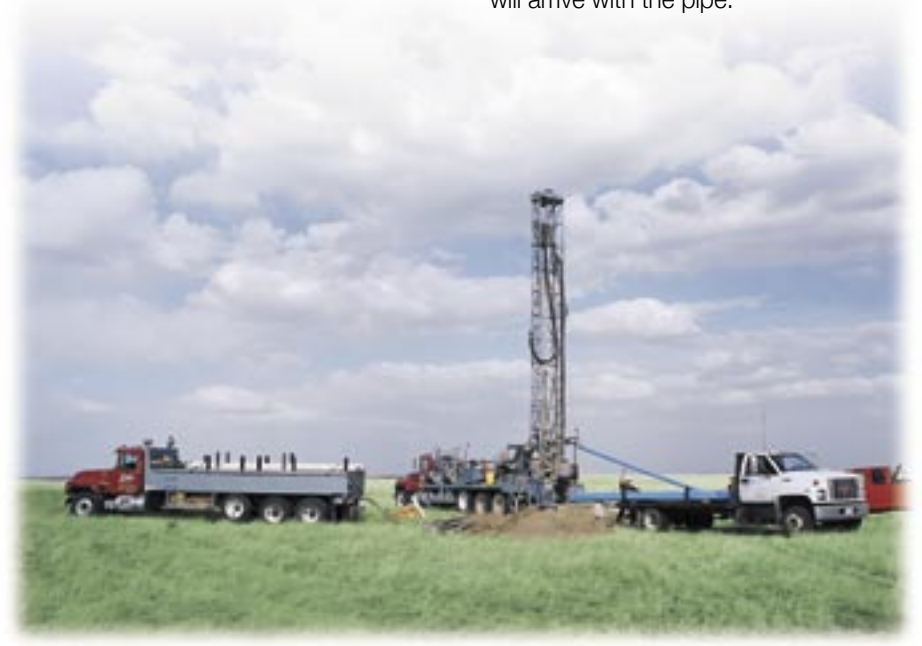
Eagle-Loc™ Well Casing is manufactured from the highest quality PVC compound and comes in 20' hanging lengths.

Meets the requirements of ANSI/NSF Standard 61.

Meets the stiffness (crush resistance), flattening, impact and puncture test requirements of ASTM F 480.



The splines, O-rings & lube needed for a crate of Eagle-Loc™ Well Casing are packaged together and installation instructions are included. The package is then attached to the pipe crate, assuring all parts needed for assembly will arrive with the pipe.



Why Eagle-Loc™ Is Right for the Job

- No curing time. The joint is ready to use immediately after assembly.
- No welding, gluing, or threading is required.
- Rubber O-rings provide 100% sealing of the joint.
- Totally corrosion-free.
- Exceptional resistance to chemicals normally found in wells.
- Completely safe for potable water.
- Choice of sizes and SDRs to fit the job requirements.
- From the makers of Eagle Well Casing. The preferred brand of well drillers everywhere.
- Easily disassembled and reused.
- Spigot end chamfered for easy assembly.
- Insertion line on spigot of pipe aids the alignment process.
- Approved lubricant is supplied with every order.

Care to be taken at jobsite

1. Do not use pipe with cracks and damaged grooves.
2. Approved lubricant should be used for easier joint assembly. Do not apply lubricant to the spline or spline groove.
3. Use only PWEagle supplied O-rings and splines. Failure to use an O-ring on every spigot may cause leakage.

Assembly Instructions



1. Clean the bell socket and spigot surfaces. Visually inspect the pipe ends for cracks, damaged grooves, etc. Do not use pipe with visible damage. Verify that the spigot end is chamfered.



2. Place the rubber O-ring in the first groove from the spigot end of the pipe. Place the O-ring in one side of the groove. Hold the O-ring in place and pull down on the other sides until it is completely in the groove. Do not roll the O-ring or excessively stretch it into place. Improper installation of O-ring may cause the joint to leak.



3. Apply generous amount of lubricant around the inside of the bell lip and to the spigot end of the pipe, including the O-ring. Do not apply lubricant to the spline or spline groove. Align the spigot above the bell and insert the spigot into the bell until the bell spline groove and spigot spline grooves are aligned. An insertion line provides an aid to the alignment process.



4. The spline groove in the spigot end of the pipe and the spline groove in the bell socket align to form a circular locking path for spline insertion.



5. Insert the pointed end of the spline into the slotted hole in the bell until the spline end is visible in the hole. Tapping the end of the spline with a hammer may be required to achieve full spline assembly.



6. This completes the joint assembly and readies the pipe for lowering into the well.

Threaded Drop Pipe

PW Eagle produces a highly dependable, environmentally friendly product which is easier to handle and less expensive to ship than comparable steel drop pipe.

PW Eagle's PVC Drop Pipe

PW Eagle PVC threaded drop pipe stands up to the rigors of heavy handling, yet is less than one-seventh the weight of steel pipe. Drop pipe is economical and easy to install, and its smooth walls improve the flow of water by reducing friction loss.

PW Eagle threads each length of pipe individually and the couplings are beveled and machined to form a water-tight fit.

Manufactured to exacting standards

PW Eagle drop pipe is made from PVC compound meeting cell class 12454 per ASTM D 1784. The pipe conforms to specifications set forth by ASTM D 1785. Drop pipe is manufactured in 20' overall lengths. The 1" and 1½" diameter pipes come with thread protectors on each end. PW Eagle drop pipe is listed to ANSI/NSF Standard 61 for potability and is backed with a 15-year limited warranty.

For more information on Drop Pipe, see PW Eagle's "Horsepower Rating/Depth Guidelines" technical bulletin.



PW Eagle has 1" and 1½" threaded couplings for its drop pipe. They are machined under the strictest standards, using extruded PW Eagle PVC heavy-wall coupling stock to ensure increased strength and reliability.

Schedule 80 Threaded Drop Pipe

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Pressure Rating (psi)	Approximate Weight (lbs/100')
1	1.315	0.93	0.179	320	42
1¼	1.660	1.25	0.191	260	58
1½	1.900	1.47	0.200	240	70
2	2.375	1.90	0.218	200	97

Deep Set Threaded Drop Pipe

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Pressure Rating (psi)	Approximate Weight (lbs/100')
1	1.315	0.88	0.215	360	48
1¼	1.660	1.19	0.232	300	68
1½	1.900	1.42	0.240	270	82
2	2.375	1.84	0.265	240	115

PWEagle combines three decades of success with tomorrow's technology

PWEagle manufactures PVC pipe for a variety of applications servicing the potable water, well casing, sewer, agriculture, turf, plumbing, communications and electrical markets. PWEagle products are available from distributors throughout the United States and parts of Western Canada. Our facilities in Washington, Oregon, California, Utah, Nebraska, Texas, Missouri and West Virginia assure on-time delivery.

PW Eagle Facilities Are Located In:

- ① Tacoma, Washington
- ② Sunnyside, Washington
- ③ Eugene, Oregon (and Corporate Headquarters)
- ④ Cameron Park, California
- ⑤ Visalia, California
- ⑥ Perris, California
- ⑦ West Jordan, Utah
- ⑧ Hastings, Nebraska
- ⑨ Conroe, Texas
- ⑩ Columbia, Missouri
- ⑪ Buckhannon, West Virginia



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