



WATER WELL

Sure-Fit[®], Certa-Lok[®] and Slotted PVC Well Casing

Westlake
Pipe & Fittings

Sure-Fit® PVC Well Casing

Westlake Pipe & Fittings is the industry leader in solvent weld PVC well casing, offering a broad range of sizes and classes to suit virtually all applications, from small diameter residential to large diameter irrigation wells. Sure-Fit PVC well casing is NSF14 listed, which is your assurance that these products have been independently tested by a nationally recognized authority for portable water use. Sure-Fit is produced at our modern manufacturing facilities to the dimensional and quality standards of ASTM F480.

Westlake Pipe & Fittings Sure-Fit PVC well casing is produced with a deeper bell for a stronger, more durable bond. Bell lengths on 4" through 6" casing exceed minimum ASTM F480 requirements by 7% - 30%. Solvent weld belled end joints are designed to seal securely, creating a continuous watertight system.

Westlake Pipe & Fittings also manufactures the industry's most complete line of fittings for use with solvent weld casing (see pages 3-4). All fittings are individually fabricated to exacting quality standards at our modern production facilities.

PVC well casing and drop pipe have gained broad acceptance since their introduction almost 40 years ago. Today, due to its outstanding physical and mechanical properties, PVC is the predominant and preferred material used for water wells. PVC compounds used in the production of Westlake Pipe & Fittings well products meet the requirements of ASTM D1784, cell classification 12454.



Check out our Water Well Calculators

Use these calculators to estimate the best Westlake Pipe & Fittings piping solution for your project:

- [Well Drop Pipe](#)
- [Slotted Well Casing Flow Rate](#)
- [Well Casing Depth](#)
- [Certa-Lok CLIC Well Casing ROI](#)

The Special Advantages of PVC

- Long Life: PVC is completely immune to electrolytic and galvanic corrosion, so it won't rust or rot like metal pipe can.
- High Chemical Resistance: PVC's excellent chemical resistance makes it immune to virtually all chemicals normally found in wells, including chlorine-based disinfectants and the highly corrosive acids often used for well rehabilitation.
- Testing performed by NSF International has shown that PVC will have no detrimental effects on the taste or color of potable water. Many customers prefer to drink potable water pumped through PVC rather than water pumped through metal pipe.
- Because PVC is a non-conductor, the chances of lightning damage are minimized.
- Lightweight and easy to handle.
- Quick and easy to install.
- Approved for use by most State Regulatory Agencies.



Sure-Fit® PVC Well Casing

Solvent Weld Bell End, ASTM F480

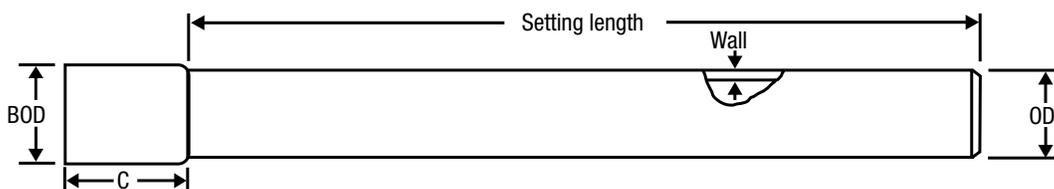
| Nom. Size | OD | Class | Min. Wall Thickness | Min. Inside Diameter | Approx. Bell Dimensions | | Setting Length ft. | Casing Weight lbs/ft. | RHCP, psi | Part Number |
|-----------|--------|-------------------|---------------------|----------------------|-------------------------|-------|--------------------|-----------------------|-----------|------------------|
| | | | | | BOD | C | | | | |
| 2" | 2.375 | SCH 40 | 0.154 | 2.009 | 2.750 | 4.50 | 10 | 0.73 | 291 | K24002020000W000 |
| | | | | | | | 20 | 0.72 | | |
| 3" | 3.500 | SCH 40 | 0.216 | 2.993 | 4.000 | 4.00 | 20 | 1.48 | 250 | K24003020000W000 |
| 4" | 4.500 | SDR 32.5 | 0.138 | 4.130 | 4.813 | 6.50 | 20 | 1.28 | 29 | K23204020000W000 |
| | | SDR 26 | 0.173 | 4.060 | 4.875 | 6.50 | 20 | 1.57 | 58 | K22604020000W000 |
| | | SDR 21 | 0.214 | 4.001 | 4.938 | 6.50 | 20 | 1.93 | 111 | K22104020000W000 |
| | | SCH 40 | 0.237 | 3.946 | 5.000 | 6.50 | 10 | 2.19 | 152 | K24004020000W000 |
| | | | | | 20 | 2.12 | | | | |
| 4.5" | 4.950 | SDR 26 | 0.190 | 4.470 | 5.375 | 6.50 | 20 | 1.90 | 58 | K22604520000W000 |
| | | SCH 40 | 0.248 | 4.370 | 5.500 | 6.50 | 20 | 2.45 | 130 | K24004520000W000 |
| | | SDR 17 | 0.291 | 4.279 | 5.563 | 6.50 | 20 | 2.82 | 215 | K21704520000W000 |
| 5" | 5.563 | SDR 26 | 0.214 | 5.026 | 6.000 | 7.00 | 20 | 2.42 | 58 | K22605020000W000 |
| | | SDR 21/ SCH 40 | 0.265 | 4.950 | 6.125 | 7.00 | 20 | 2.92 | 111 | K24005020000W000 |
| | | SDR 17 | 0.327 | 4.796 | 6.250 | 7.00 | 20 | 3.61 | 215 | K21705020000W000 |
| 6" | 6.625 | SDR 32.5 | 0.204 | 6.114 | 7.063 | 7.00 | 20 | 2.76 | 29 | K23206020000W000 |
| | | SDR 26 | 0.255 | 5.998 | 7.188 | 7.00 | 20 | 3.43 | 58 | K22606020000W000 |
| | | SCH 40 | 0.280 | 5.951 | 7.250 | 7.00 | 20 | 3.75 | 77 | K24006020000W000 |
| | | SDR 21 | 0.316 | 5.877 | 7.313 | 7.00 | 20 | 4.20 | 111 | K22106020000W000 |
| | | SDR 17 | 0.390 | 5.711 | 7.438 | 7.00 | 20 | 5.13 | 215 | K21706020000W000 |
| 6.9" | 6.903 | DR 27.6 | 0.250 | 6.298 | 7.438 | 7.00 | 20 | 3.50 | 48 | K22706920000W000 |
| | | SDR 21 | 0.329 | 6.122 | 7.625 | 7.00 | 20 | 4.56 | 111 | K22106920000W000 |
| | | SDR 17 | 0.406 | 5.948 | 7.750 | 7.00 | 20 | 5.56 | 215 | K21706920000W000 |
| 8" | 8.625 | SDR 26 | 0.332 | 7.799 | 9.313 | 7.00 | 20 | 5.80 | 58 | K22608020000W000 |
| | | SDR 21 | 0.410 | 7.655 | 9.500 | 7.00 | 20 | 7.10 | 111 | K22108020000W000 |
| 10" | 10.750 | SDR 26 | 0.413 | 9.742 | 11.625 | 7.50 | 20 | 9.02 | 58 | K22610020000W000 |
| | | SDR 21 | 0.511 | 9.549 | 11.875 | 7.50 | 20 | 11.05 | 111 | K22110020000W000 |
| 12" | 12.750 | SCH 40 | 0.406 | 11.825 | 13.582 | 8.125 | 20 | 10.25 | 32 | K24012018800W000 |
| | | SDR 26 | 0.490 | 11.567 | 13.813 | 8.00 | 20 | 12.72 | 58 | K22612020000W000 |
| | | SDR 21 | 0.606 | 11.322 | 14.063 | 8.00 | 20 | 15.59 | 111 | K22112020000W000 |
| 14" | 14.000 | SCH 40 | 0.437 | 12.927 | 14.938 | 8.00 | 20 | 12.53 | 30 | K24014020000W000 |
| 16" | 16.000 | SCH 40 | 0.500 | 14.785 | 17.063 | 8.00 | 20 | 16.39 | 30 | K24016020000W000 |
| | | SDR 26 | 0.616 | 14.537 | 17.313 | 8.00 | 20 | 20.03 | 58 | K22616020000W000 |

Notes

- All dimensions in inches unless specified.
- All dimensions and weights are for estimation purposes.
- R.H.C.P. = Resistance to Hydraulic Collapse Pressure (predicted failure point at room temperature – no safety factor included).

See brochure on the Selection of PVC Well Casing Based on Hydraulic Collapse Considerations, for additional details.

- Plain End casing available on a special order basis.
- Impact Conditions of well casing
4½" and smaller = IC-0 5" and larger = IC-1



Sure-Fit® Solvent Weld PVC Well Fittings

SURE-FIT CAPS
FEMALE



| Nominal Size | OD (in.) | Length (in.) | Part Number |
|--------------|----------|--------------|-------------|
| 4"* | 5.00 | 3.13 | 82157810374 |
| 4.5" | 5.40 | 4.00 | 82157810435 |
| 5"* | 6.13 | 4.25 | 82157810381 |
| 6"* | 7.30 | 4.25 | 82157810398 |
| 6.9" | 7.60 | 4.25 | 82157810459 |
| 8" | 9.30 | 4.50 | 82157810404 |
| 10" | 11.50 | 5.00 | 82157810411 |
| 12" | 13.60 | 5.00 | 82157810428 |
| 14" | 15.00 | 5.00 | 82157810503 |
| 16" | 17.00 | 5.50 | 82157810527 |

* Molded Cap – base is raised instead of flat.

SURE-FIT COUPLINGS
FEMALE X FEMALE



| Nominal Size | OD (in.) | Length (in.) | Part Number |
|--------------|----------|--------------|---------------|
| 4" | 5.000 | 9.500 | 82157690808 |
| 4.5" | 5.563 | 10.500 | 82157690952 |
| 5" | 6.125 | 12.500 | 82157690815 |
| 6" | 7.313 | 12.500 | 82157690822 |
| 6.9" | 7.438 | 14.000 | 82157690938 |
| 8" | 9.375 | 13.500 | 82157690839 |
| 10" | 11.625 | 14.000 | 82157690846 |
| 12" | 13.750 | 15.000 | 82157690853 |
| 14" | 14.875 | 14.000 | Contact Sales |
| 16" | 17.125 | 15.500 | 82157690860 |



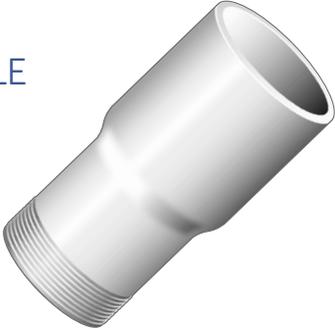
Sure-Fit® Solvent Weld PVC Well Fittings

SURE-FIT REDUCERS
 FEMALE X FEMALE X
 FEMALE X MALE



| Nominal Size | OD (in) | Length (in.) | Part Number |
|---------------|---------|--------------|-------------|
| 4.5" x 4" FxF | 5.54 | 11.00 | 82157690969 |
| 5" x 4" FxM | 6.10 | 15.15 | 82157690914 |
| 5" x 4.5" FxF | 6.10 | 11.50 | 82157690921 |
| 6.9" x 6" FxF | 7.60 | 11.00 | 82157690945 |

PUMP ADAPTERS
 MALE NPT X FEMALE



| Nominal Size | OD (in) | Length (in.) | Part Number |
|--------------|---------|--------------|-------------|
| 4" | 5.20 | 13.50 | 82157691010 |
| 6" | 7.50 | 15.00 | 82157691027 |

Solvent Weld Bell x NPT Thread

Note: All dimensions are subject to normal manufacturing tolerances.



Certa-Lok® – The Next Generation in PVC Well Casing from the Industry Leader



Certa-Lok PVC Well Casing utilizes Westlake Pipe & Fittings' field-proven spline-locking design to form a full strength joint instantly in all weather conditions. No solvents, arc welding, or reinforcement screw attachments are required. Certa-Lok Integral Bell Well Casing, available in sizes 4"-12", is supplied with a conventional belled-end joint for even faster assembly.

- No couplings required
- Economical
- Greatly reduced assembly time
- Only one spline to install per joint

Designed and manufactured to meet or exceed the requirements of ASTM F480, all Certa-Lok PVC Well Casing products are also listed by NSF International as safe for use with potable water. Certa-Lok is ideal for a wide range of water well applications, including:

- Domestic
- Municipal
- Irrigation
- Aquifer storage and recovery

Certa-Lok well casing is available in a variety of sizes ranging from 4" to 17.4".

There are many good reasons why most smaller diameter residential systems, and more and more larger public water supply systems, now use PVC as the preferred casing material.

- Long Life: PVC is completely immune to electrolytic and galvanic corrosion, so it won't rust or rot like most metal pipe. PVC water inlet screens are also inherently more resistant than conventional steel products to clogging and encrustation, which means the amount of water a well can deliver will not be significantly reduced over time.

- PVC's excellent chemical resistance makes it immune to virtually all chemicals normally found in wells, including chlorine-based disinfectants and the highly corrosive acids used for well rehabilitation.
- NSF approved as safe for use with potable water.

When you combine the above features with the added benefits of economy, strength, and reliability, it's easy to see why Certa-Lok PVC Well Casing has become the material of choice among modern well drillers.



Rapid Joint Assembly



You simply can't beat Certa-Lok® for down-the-hole installation speed. The Certa-Lok joint can be assembled or disassembled in seconds – by hand, without any special tools. Follow these simple steps for rapid joint assembly:

1. Clean

Clean the joining surfaces and make sure gaskets are clean and evenly seated in the gasket groove(s). Inspect gaskets for damage.

2. Lubricate

If lubrication is needed to ease joint assembly, soapy water or Westlake Pipe & Fittings-approved PVC pipe lubricant can be applied to the joining surfaces prior to assembly. Apply only to the exposed gasket surface and to the tapered end of the casing.

CAUTION: To maintain joint integrity, do not apply lubricant to the spline or to the spline grooves.

3. Assemble

Insert the casing into the coupling or bell until it seats against the stop. Both sections of the casing should be in straight alignment. This automatically aligns the locking grooves for receiving the spline. Insert the spline through the entry hole until it is fully seated. This securely locks the joint, while the gasket is designed to provide a reliable, watertight seal. The joint is now complete – no waiting, no welding, no gluing or threading required. If needed, the joint can be just as easily disassembled and reused.

IMPORTANT: During the assembly process, it is standard practice to use a tight-fitting holding clamp which conforms to the pipe-to-bell transition section in order to provide adequate casing support. Contact Westlake Pipe & Fittings for suggested source(s) of supply.



The Certa-Lok® Difference

Certa-Lok PVC Well Casing represents a new evolution in well products, offering distinct advantages that will boost your bottom line.

Cost effective – Lower installed cost on an annualized basis compared to conventional casing.

Reliable – The Certa-Lok joint has been used for over 40 years in demanding water supply applications.

Easy to handle – Weight is much less than comparable steel casing.

Instant joint – Joint achieves full strength immediately upon assembly in all weather conditions.

Weather resistant – Heat, cold, moisture, humidity, and wind do not affect Certa-Lok PVC Well Casing assembly or disassembly.

Solvent-free, environmentally sound – The environmentally acceptable Certa-Lok joint is ideal for monitoring well applications.

Adaptable – A full line of Certa-Lok adapters facilitates connection to plain-end PVC casing and threaded casing.

Easy removal – Certa-Lok casing can be quickly disassembled and removed from the bore hole without having to cut joints. Reinstallation does not require the use of special solvent weld couplings.

Contractor Proven

"We have been using Certa-Lok casing products, now manufactured by Westlake Pipe & Fittings, for nearly 20 years. These products, in several ways, have saved us time and project costs. We are very appreciative of the Certa-Lok products and look forward to using them for many years to come."

Colton Aardal
Associated Services
Stephenville, TX

"Certa-Lok goes together quicker and easier than any other products on the market. Certa-Lok is a very good value, for a good reliable product. I've been using Certa-Lok for 12 years. No problems with the pipe but if I did experience a problem I know their team would be behind us."

Reed Scuby
Aqua Tech Drilling
Bandera, TX

"We have used Certa-Lok casing for about 10 years now. It is the most cost effective casing material I use. Certa-Lok perforated casing offers higher yield wells compared to steel. Certa-Lok is far more efficient. The longevity and durability of Certa-Lok casing ensures a well that will last for decades to come."

Steve Arthur
Arthur and Orum Drilling
Fresno, CA

"We have been using Westlake Pipe & Fittings' Certa-Lok products for all our PVC cased wells for the last 10 years. It is the best in quality and it helps us get the pipe into the bore hole quickly which saves us time and money. This allows us to get the job done in a timely fashion and get onto the next job. I recommend this product to other drillers."

Travis Flint
Thomas Flint & Son, Inc.
Cadillac, MI

"I use Certa-Lok because:

- *Easiest and fastest assembly*
- *Reliable*
- *It is the best on the market. If I didn't think so I wouldn't have used it for so long.*
- *I have been using Certa-Lok for a very long time with no complaints."*

Frank Glass
Associated Drilling
Dripping Springs, TX



Engineering Specification

1.0 SCOPE

This specification covers Polyvinyl Chloride (PVC) Well Casing which utilizes a spline-lock mechanical joining system. Pipe is produced in nominal sizes 4"–17.4", and is available in both solid and slotted configurations.

2.0 REFERENCE DOCUMENTS

ASTM International:

ASTM D1784 – Standard Specification for Rigid PVC Compounds and Chlorinated PVC Compounds.

ASTM D2837 – Standard Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials.

ASTM F480 – Standard Specification for Thermoplastic Well Casing Pipe Made in Standard Dimension Ratios (SDR), SCH 40 and SCH 80.

NSF International:

NSF-61 – Drinking Water System Components – Health Effects

NSF-14 – Plastic Piping System Components and Related Materials.

3.0 REQUIREMENTS

3.1 Materials: Pipe and PVC couplings shall be made from unplasticized PVC compounds having a minimum cell classification of 12454, as defined in ASTM D1784. The compound shall qualify for a Hydrostatic Design Basis (HDB) of 4000 psi for water at 73.4°F, in accordance with the requirements of ASTM D2837. White pipe shall be supplied, unless otherwise agreed upon at time of purchase.

3.1.1 Composite Couplings: 58% – 62% volume (60% – 80% weight) 450 yield E-Glass Rovings, Bisphenol-A-Epoxy, Resin, and Anhydride Curing Agent.

3.2 Approvals: Products intended for contact with potable water shall be evaluated, tested, and certified for conformance with NSF-61 by an acceptable certifying organization, when required by the regulatory authority having

jurisdiction. Casing, as applicable shall be approved and listed under NSF-14.

3.3 Physical Requirements: Product dimensions, weights, and performance data are summarized on pages 9, 10, & 11. Standard pipe laying length is 20'. Nominal casing size should be selected by the Design Engineer based on required flow performance, pump diameter, and the local installation conditions under which the well will be constructed.

3.4 Performance: 4" through 16" pipe supplied to this specification shall meet the stiffness (crush resistance), flattening, impact, and puncture test requirements of ASTM F480.

3.5 Joints: Pipe shall be joined using non-metallic couplings which, together, have been designed as an integral system for maximum reliability and interchangeability. On small to medium diameter casing, the coupling may be replaced by an integral bell spline lock joint. High-strength flexible thermoplastic splines shall be inserted into mating precision-machined grooves to provide continuous restraint with evenly distributed loading. No external pipe-to-pipe restraining devices which clamp onto or otherwise damage the pipe surface as a result of point-loading shall be permitted. The joining system shall incorporate elastomeric sealing gasket(s) which are designed to provide a watertight seal. Note that this specification does not cover integral bell pipe with solvent-cement joints.

3.6 Marking: Well Casing pipe shall be legibly and permanently marked in ink with the following information:

- Manufacturer and Trade Name
- Nominal Size and SDR or SCH Rating
- Manufacturing Date Code
- NSF® -61-G
- NSF®-pw-G, as applicable

3.7 Workmanship: Pipe and couplings shall be homogeneous throughout and free from visible cracks, holes, foreign inclusions, blisters and dents, interior roughness, and other injurious defects that may affect wall integrity. The pipe and couplings shall be as uniform as commercially practicable in color, opacity, density, and other physical characteristics.

4.0 SLOTTING

Pipe can be supplied with multiple rows of machined circumferential slots, to allow for water entry into the casing. Slot patterns should be specified to provide the required open area and flow rate (taking into account the surrounding embedment material), while maintaining structural integrity of the installed system. Consult the manufacturer for design data and product availability.

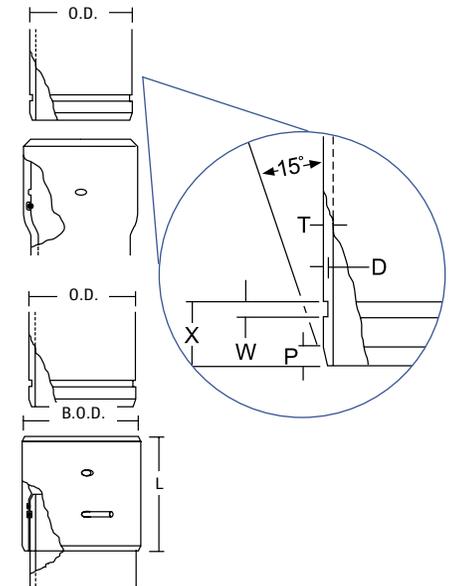
5.0 SUGGESTED SOURCE OF SUPPLY

Certa-Lok PVC Drop Pipe as supplied by:
Westlake Pipe & Fittings
2801 Post Oak Blvd., Suite 600
Houston, TX 77056
855.624.7473



Certa-Lok® Dimensions, Weight & Performance Data

| Groove and Bevel Dimensions | | | | | | | |
|-----------------------------|--------|-------|-------|-------|-------|-------|------------|
| Nom. Size | O.D. | X | W | D | | P | Bell Depth |
| | | | | Min. | Max. | | |
| 4" | 4.500 | 1.313 | 0.375 | 0.125 | 0.145 | 0.271 | 3.000 |
| 4.5" | 4.950 | 3.000 | 0.375 | 0.125 | 0.145 | 0.271 | 4.250 |
| 5" | 5.563 | 3.000 | 0.375 | 0.125 | 0.145 | 0.271 | 4.250 |
| 6" | 6.625 | 1.313 | 0.375 | 0.125 | 0.145 | 0.271 | 3.000 |
| 6.9" | 6.900 | 1.313 | 0.375 | 0.125 | 0.145 | 0.271 | 3.000 |
| 8" | 8.625 | 3.163 | 0.500 | 0.135 | 0.155 | 0.634 | 5.000 |
| 10" | 10.750 | 3.500 | 0.500 | 0.205 | 0.225 | 0.634 | 5.300 |
| 12" | 12.750 | 3.500 | 0.500 | 0.205 | 0.225 | 0.634 | 5.300 |
| 14" | 14.004 | 3.563 | 0.625 | 0.205 | 0.225 | 0.634 | 5.300 |
| 16" | 16.004 | 3.563 | 0.625 | 0.205 | 0.225 | 0.634 | 5.300 |
| 17.4" | 17.400 | 3.578 | 0.620 | 0.205 | 0.225 | 0.634 | 5.300 |



| Certa-Lok Coupled Joint | | | | | | | | |
|-------------------------|--------|-------|-------|-------|-------|-------|--------|-----------------|
| Nom. Size | O.D. | X | W | D | | P | L | Coupling B.O.D. |
| | | | | Min. | Max. | | | |
| 14" | 14.000 | 3.500 | 0.500 | 0.205 | 0.225 | 0.634 | 12.000 | 16.000 |
| 16" | 16.000 | 3.500 | 0.500 | 0.205 | 0.225 | 0.634 | 12.000 | 17.400 |
| 17.4" | 17.400 | 3.500 | 0.500 | 0.205 | 0.225 | 0.634 | 12.000 | 18.701 |

| Performance Data | | | | | | | | | | |
|------------------|--------|---------------|--------|-----------|-----------|--------------------------|------------------------------|----------------|------------------------------|------------------|
| Nom. Size | O.D. | Class | T Min. | I.D. Min. | Bell O.D. | Casing Weight (lbs./ft.) | Max. Tensile Strength (lbs.) | R.H.C.P. (psi) | Max. Internal Pressure (psi) | Part Number |
| 4" | 4.500 | SCH 40 | 0.237 | 3.951 | 5.063 | 2.09 | 4,900 | 152 | 115 | K54004020300W000 |
| 4.5" | 4.950 | SCH 40 | 0.248 | 4.368 | 5.563 | 2.43 | 4,700 | 130 | 130 | K54004520000W000 |
| | | SDR 17 | 0.291 | 4.272 | 5.625 | 2.82 | 6,300 | 215 | 160 | K51704520000W000 |
| | | SDR 14 | 0.354 | 4.550 | 5.810 | 3.401 | Contact Tech Services | 395 | Contact Tech Services | K51404520000W000 |
| 5" | 5.563 | SDR 21/SCH 40 | 0.265 | 4.946 | 6.188 | 2.92 | 6,300 | 111 | 130 | K52105020000W000 |
| | | SDR 17 | 0.327 | 4.808 | 6.313 | 3.56 | 8,500 | 215 | 180 | K51705020000W000 |
| | | SCH 80 | 0.375 | 4.700 | 6.438 | 4.05 | 8,500 | 329 | 215 | K58005020000W000 |
| 6" | 6.625 | SCH 40 | 0.280 | 5.970 | 7.313 | 3.68 | 8,500 | 77 | 115 | K54006020000W000 |
| | | SDR 21 | 0.316 | 5.890 | 7.375 | 4.13 | 8,800 | 111 | 150 | K52106020000W000 |
| | | SDR 17 | 0.390 | 5.724 | 7.500 | 5.04 | 10,000 | 215 | 200 | K51706020000W000 |
| 6.9" | 6.900 | SDR 21 | 0.329 | 6.137 | 7.688 | 4.47 | 7,400 | 111 | 160 | K52106920000W000 |
| | | SDR 17 | 0.406 | 5.965 | 7.688 | 5.44 | 9,400 | 215 | 200 | K51706920000W000 |
| | | SDR 14 | 0.493 | 6.341 | 7.930 | 6.583 | Contact Tech Services | 395 | Contact Tech Services | K51406920000W000 |
| 8" | 8.625 | SDR 17 | 0.508 | 7.450 | 9.625 | 8.59 | 17,000 | 215 | 140 | K51708020000W000 |
| 10" | 10.750 | SDR 17 | 0.632 | 9.294 | 12.188 | 13.40 | 24,200 | 215 | 160 | K51710020000W000 |
| 12" | 12.750 | SDR 17 | 0.750 | 11.020 | 14.250 | 18.79 | 29,000 | 215 | 200 | K51712020000W000 |
| 14" | 14.004 | SDR17 | 0.823 | 12.146 | 15.656 | 22.09 | Contact Tech Services | 215 | Contact Tech Services | K51714020000W000 |
| 16" | 16.004 | SDR26 | 0.616 | 14.61 | 17.540 | 19.61 | 35,700 | 58 | 200 | K52616020000W000 |
| | | SDR17 | 0.941 | 13.882 | 17.896 | 28.88 | 35,700 | 215 | 200 | K51716020000W000 |
| 17.4 | 17.400 | SDR 17 | 1.024 | 15.021 | 19.456 | 34.16 | 37,000 | 215 | 200 | K51717420000W000 |

Max tensile strengths are applicable to both solid wall and slotted Certa-Lok casing and joints.

FG = Fiberglass Coupling, PVC = PVC Coupling, R.H.C.P. = Resistance to Hydraulic Collapse Pressure (predicted failure point at room temperature - no safety factor included). See brochure on the Selection of PVC Well Casing Based on Hydraulic Collapse Considerations, for additional details.

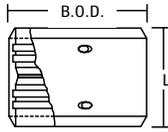
Note 1: Dimensions in all tables are in inches. All dimensions and weights are subject to manufacturing tolerances.
Note 2: Standard setting length = 20'.

Certa-Lok® Accessories

COUPLING Certa-Lok Female x Certa-Lok Female Includes Gaskets and Splines

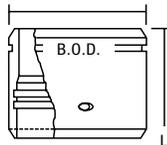
| Nom. Size | Part Number | L | B.O.D. |
|------------------------|-------------|-------|--------|
| 4" | 82157707032 | 6.00 | 4.950 |
| 4.5" | 82157707179 | 8.25 | 5.563 |
| 5" | 82157717178 | 8.25 | 6.180 |
| 6" | 82157707063 | 6.00 | 7.600 |
| 6.9" | 82157707278 | 7.00 | 7.840 |
| 6.9" x 6" ¹ | 82157707285 | 7.00 | 7.840 |
| 8" | 82157707087 | 10.00 | 9.854 |
| 10" | 82157707124 | 12.00 | 12.438 |
| 12" | 82157707094 | 12.00 | 14.000 |
| 14" | 82157707100 | 12.00 | 16.000 |
| 16" | 82157707117 | 12.00 | 17.400 |
| 17.4" | 82157707193 | 12.00 | 18.701 |
| 24" FG | 82157741289 | 13.00 | 25.375 |

¹Reducing



REDUCER BUSHING Certa-Lok Male x Certa-Lok Female Includes Gasket and Spline

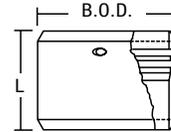
| Nom. Size | Part Number | L | B.O.D. |
|-------------|-------------|-------|--------|
| 8" X 6" | 82157712258 | 8.25 | 8.625 |
| 10" X 8" | 82157712272 | 10.00 | 10.750 |
| 12" X 10" | 82157712296 | 12.00 | 12.750 |
| 14" X 12" | 82157712302 | 12.00 | 14.000 |
| 16" X 14" | 82157712326 | 12.00 | 16.000 |
| 17.4" X 16" | 82157712319 | 12.00 | 17.400 |



CERTA-LOK x SOLVENT WELD ADAPTER Certa-Lok Female x Solvent Weld Female Includes Gasket and Spline

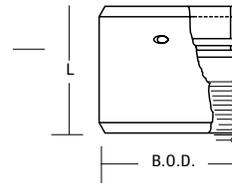
| Nom. Size | Part Number | L | B.O.D. |
|------------------------|-------------|-------|--------|
| 4" | 82157717031 | 6.00 | 4.950 |
| 4.5" | 82157717161 | 8.25 | 5.563 |
| 5" | 82157717185 | 8.25 | 6.180 |
| 6" | 82157717062 | 6.00 | 7.600 |
| 6.9" | 82157717130 | 7.00 | 7.840 |
| 6.9" x 6" ¹ | 82157717147 | 7.00 | 7.840 |
| 8" | 82157717079 | 10.00 | 9.854 |
| 10" | 82157717109 | 12.00 | 12.438 |
| 12" | 82157717116 | 12.00 | 14.000 |

¹Reducing



THREADED ADAPTER Certa-Lok Female x Female NPT Includes Gasket and Spline

| Nom. Size | Female Thread Size | Part Number | L | B.O.D. |
|-----------|--------------------|-------------|-------|--------|
| 4" | 4" | 82157810770 | 6.00 | 5.470 |
| 4.5" | 4" | 82157810909 | 8.25 | 5.563 |
| 5" | 5" | 82157810916 | 8.25 | 6.180 |
| 6" | 6" | 82157810800 | 6.63 | 7.600 |
| 6.9" | 6" | 82157810862 | 6.63 | 7.840 |
| 8" | 8" | 82157810824 | 10.00 | 9.854 |
| 10" | 10" | 82157810848 | 12.35 | 12.438 |
| 12" | 12" | 82157810855 | 12.23 | 14.000 |

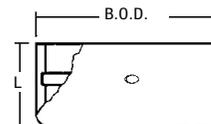


| Spline (Nylon) | | | | O-Ring | | | |
|----------------|-------------|----|----------|-------------|------|-------|----------|
| Nom. Size | Part Number | L | Size | Part Number | C/S | Color | Material |
| 4" | S4518RN0 | 18 | .250 RND | OR040YMNN | .210 | Brown | NBR |
| 4.5" | S4518RN0 | 18 | .250 RND | OR045IBON | .210 | Brown | NBR |
| 5" | S4518RN0 | 18 | .250 RND | OR050IBON | .210 | Brown | NBR |
| 6" | S0624RN0 | 24 | .250 RND | OR060IBON | .210 | Brown | NBR |
| 6.9" | S0624RN0 | 24 | .250 RND | OR069IBOE | .210 | Brown | EPDM |
| 8" | S0832SN0 | 32 | .313 SQR | OR080YMNI | .375 | Blue | NBR |
| 10" | S1039SN0 | 39 | .375 SQR | OR100WCOI | .375 | Green | IR/SBR |
| 12" | S1246SN0 | 46 | .375 SQR | OR120WCOI | .375 | Green | IR/SBR |
| 14" | S1448SN0 | 48 | .375 SQR | OR140WCOI | .375 | Green | IR/SBR |
| 16" | S1653SN0 | 53 | .375 SQR | OR160WCOI | .375 | Green | IR/SBR |
| 17.4" | S1760SN0 | 60 | .375 SQR | OR174WCOI | .407 | Green | IR/SBR |

C/S = O-Ring Cross-Section Diameter

CASING & SCREEN CAP Certa-Lok Female Includes Spline

| Nom. Size | Part Number | L | B.O.D. |
|-----------|-------------|------|--------|
| 4" | 82157810619 | 4.00 | 4.950 |
| 4.5" | 82157810923 | 4.00 | 5.563 |
| 5" | 82157810930 | 4.00 | 6.180 |
| 6" | 82157810640 | 4.25 | 7.600 |
| 6.9" | 82157810602 | 4.25 | 7.600 |
| 8" | 82157810664 | 4.50 | 9.854 |
| 10" | 82157810688 | 5.00 | 11.600 |
| 12" | 82157810695 | 5.00 | 14.000 |
| 14" | 82157810701 | 5.00 | 15.300 |
| 16" | 82157810718 | 5.25 | 17.400 |
| 17.4" | 82157810725 | 5.50 | 18.700 |



Sure-Fit® & Certa-Lok® Slotted PVC Well Casing

Westlake Pipe & Fittings – the name that contractors have come to associate with the industry’s broadest line of high-quality PVC well products – is also the industry leader in high performance slotted well casing. Using new manufacturing technology, slotted casing can now be produced with open areas and efficiencies that rival those of other screens, often at a fraction of the cost. Combine PVC screens with PVC well casing for the ultimate corrosion-resistant, low-maintenance water well!

A Size and Joining System for Every Application

Slotted casing can be produced in sizes from 2" up to 17.4" O.D., in a variety of wall thicknesses and strengths to suit virtually all applications:

- Domestic
- Irrigation
- Municipal
- Aquifer Storage and Recovery
- Environmental

Westlake Pipe & Fittings also offers a choice of joining systems: traditional Sure-Fit™ solvent-weld or the contractor-proven, all-weather Certa-Lok® mechanical joint.

Slot Width Selection

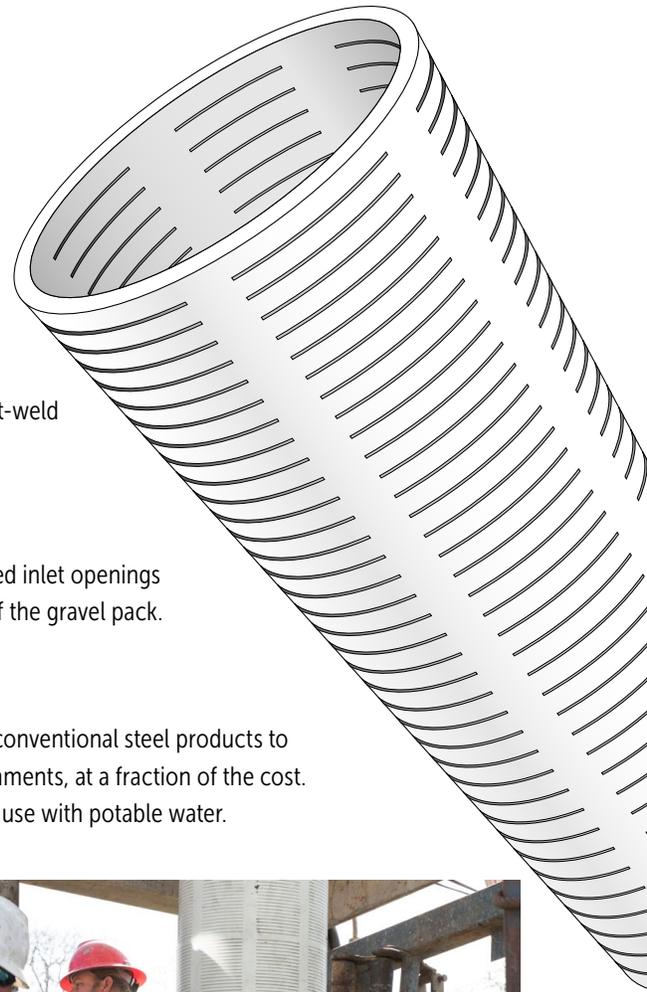
A wide selection of precision-machined factory slot designs (.010"-125") with closely spaced inlet openings provides for uniform development over the length of the screen and proper stabilization of the gravel pack.

Long Life

Well rehabilitation costs are minimized, as PVC screens are inherently more resistant than conventional steel products to clogging and encrustation. PVC also outperforms stainless steel in highly corrosive environments, at a fraction of the cost. All screens are manufactured from PVC casing that is listed by NSF International as safe for use with potable water.

Single Source for All Your Well Product Needs

No more unloading, local-machining, and repackaging required. With Westlake Pipe & Fittings, the industry’s best slotted casing is shipped ready to use – no field fabrication required – along with your other PVC well product needs, including solid casing, drop pipe for submersible pumps, and a variety of fittings.



Sure-Fit® & Certa-Lok® Underdrain Pipe

Slotted PVC well casing is also ideal for use as underdrain pipe. Applications include, but are not limited to:

- Leachate collection systems for solid waste landfills
- Drainage and dewatering applications
- Mining heap leach projects

PVC underdrain pipe is supplied with precision-machined slots, which provide greater intake capacity and continuous, clog-resistant drainage of fluids, as compared to standard round-hole perforated pipe. Slotted underdrain reduces

entrance velocity into the pipe, thereby reducing the possibility that solids will be carried into the system. Slot rows can generally be positioned symmetrically or asymmetrically around the pipe circumference, depending upon the application. Outside diameters are generally the same for PVC and non-corrugated polyethylene (HDPE) pipe. However, the HDPE pipe must be extruded with a thicker wall (and therefore a reduced cross-sectional flow area) to obtain a comparable stiffness rating.



Calculating Flow in Gravel-Packed Well

Use this formula along with the outside diameter open area information from the tables to calculate the estimated flow rate per foot of slotted casing:

$$\text{Flow Rating} \left(\frac{\text{gpm}}{\text{ft of screen}} \right) = 3.12 \times A_{\text{open}} \times F_{\text{blockage}} \times V_{\text{flow}}$$

A_{open} = O.D. Open area of screen from tables, in²/ft.

F_{blockage} = 0.5 for gravel-packed well, 1.0 for fully open flow.

V_{flow} = Water flow velocity at entrance to screen slots, ft/s. Generally 0.1 ft/s.



Slotted PVC Well Casing & Underdrain Pipe Specifications

This chart illustrates standard manufacturing capabilities only. Not all products shown are routinely stocked. Westlake Pipe & Fittings can supply a detailed Engineering Specification for any of the products shown, or for special made-to-order products.

| 1/8" SLOT SPACING | | | | | | | | | | | | | |
|-------------------|--------|---------------------|----------------|--------------------|----------------------------------------------------------|------|-------|-------|------|-------|-------|------|------|
| Nom. Size | OD | Number of Slot Rows | Class | Joint Availability | O.D. Open Area (in ² /foot of Slotted Casing) | | | | | | | | |
| | | | | | Slot Width @ 1/8" Slot Spacing | | | | | | | | |
| | | | | | 0.008 | 0.01 | 0.013 | 0.016 | 0.02 | 0.025 | 0.032 | 0.04 | |
| 2" | 2.375" | 4 | Sch. 40 | SW | 3.7 | 4.6 | 5.9 | 7.0 | 9.3 | | | | |
| 4" | 4.5 | 4 | Sch. 40 | SW | | | | 5.9 | 7.4 | 9.0 | 14.8 | | |
| | | 6 | | | | | | 8.8 | 11.2 | 13.5 | 16.4 | | |
| 5" | 5.563 | 4 | SDR 21/Sch. 40 | SW | | | | 8.5 | 10.3 | 18.7 | 22.6 | 23.0 | 27.4 |
| | | 6 | | | | | | 10.0 | 12.8 | | 15.4 | | |
| | | 6 | SDR 17 | | | | | | | | | | |

| 1/4" SLOT SPACING | | | | | | | | | | | | | | | | | |
|-------------------|-------|--------|---------------------|----------------|--------------------|----------------------------------------------------------|-------|---------------|----------------|----------------------------|-------|-----------------------|----------------|-----------|-------------------------|-----------|-------|
| Nom. Size | OD | Length | Number of Slot Rows | Class | Joint Availability | O.D. Open Area (in ² /foot of Slotted Casing) | | | | | | | | | | | |
| | | | | | | Slot Width @ 1/4" Spacing | | | | | | | | | | | |
| | | | | | | 0.008 | 0.010 | 0.013 | 0.016 | 0.020 | 0.025 | 0.032 | 0.040 | 0.050 | 0.085 | 0.100 | 0.125 |
| 2" | 2.375 | 10' | 4 | Sch. 40 | SW | 1.8 | 2.2 | 2.9 | 3.5 | 4.3 | | | | | | | |
| | | 20' | | | | 2.4 | 3.1 | 3.7 | 4.6 | 5.6 | 7.0 | | | | | | |
| 3" | 3.500 | 20' | 4 | Sch. 40 | SW | 1.9 | 2.6 | 3.4 | 4.1 | 5.0 | 6.2 | 7.7 | | | | | |
| 4" | 4.500 | 10' | 4 | Sch. 40 | SW | | | | 2.8 | 3.7 | 4.5 | 7.4 | 9.1 | 11.4 | | | |
| | | | 6 | | SW | | | | 4.3 | 5.5 | 6.7 | | | | | | |
| | | | 6 | | SW | 3.7 | 4.6 | 5.9 | 7.1 | | | | | | | | |
| | | 20' | 4 | SW, CLIB, CLIB | 2.5 (SW only) | 3.0 | 3.9 | 4.8 (SW only) | 8.0 | 9.7 | 12.2 | 14.8 (CLIB/CLIC only) | 17.9 (SW only) | | | | |
| | | | 4 | SDR 21, SDR 26 | SW | | | 3.9 (SDR21) | | | 4.8 | 12.2 (SDR21) | 14.8 | | | | |
| | | | 6 | SW | | | | 7.1 | | | | | | | | | |
| 4.5" | 4.950 | 20' | 6 | Sch. 40 | SW | | | | 6.7 | 8.2 | | | | 25.7 | | | |
| | | | 4 | | SW, CLIB, CLIC | | | | 4.5 | 5.4 | 9.2 | 11.3 (SW) | 14.1 | 17.1 (SW) | | | |
| | | | 4 | SDR 17 | SW, CLIB, CLIC | | | | | | | 11.3 | | 17.1 | 20.7 (CLIB & CLIC Only) | | |
| | | | 4 | SDR 26 | SW | | | | | | 4.6 | 5.6 | 7.0 | | | | |
| | | | 2 | | | | | 2.2 | | | | | | | | | |
| 5" | 5.563 | 20' | 4 | Sch. 80 | CLIB, CLIC | | | | 10.0 | 12.3 | 15.4 | 18.7 | | | | | |
| | | | 6 | SDR 17 | SW | | | | 6.7 | 8.2 | | | | 28.0 | | | |
| | | | 4 | | SW, CLIB, CLIC | | | | 4.5 | 5.4 (CLIB, CLIC) | 10.0 | 12.3 | 15.4 | 18.7 | 22.6 | 45.2 (SW) | |
| | | | 4 | SDR 21/Sch. 40 | SW, CLIB, CLIC | | | | 4.5 (SW, CLIC) | 8.2 (SW), 5.4 (CLIB, CLIC) | | | | | | 12.3 (SW) | |
| | | | 6 | SDR 26 | SW | | | | 5.2 | 6.7 | 15.1 | | | | | | |
| | | | 6 | | SW | | | | | | 8.2 | | | 19.2 | | | |
| | | | 4 | | | | | | | | 10.0 | 12.3 | 15.4 | | | | |

Key: SW = Sure-Fit Solvent Weld Belled End
 CLIB = Certa-Lok Restrained Joint Integral Bell

CL = Certa-Lok Restrained Joint (w/ coupling)
 CLIC = Certa-Lok Restrained Joint Integral Bell (w/ CLIC spline)

Notes: 1. All dimensions are in inches unless otherwise specified. 2. Specifications subject to change. Standard manufacturing tolerances apply.

| 1/4" SLOT SPACING (continued) | | | | | | | | | | | | | | | | | |
|-------------------------------|--------|--------|---------------------|----------|--------------------|----------------------------------------------------------|-------|-----------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-------|
| Nom. Size | OD | Length | Number of Slot Rows | Class | Joint Availability | O.D. Open Area (in ² /foot of Slotted Casing) | | | | | | | | | | | |
| | | | | | | Slot Width @ 1/4" Spacing | | | | | | | | | | | |
| | | | | | | 0.008 | 0.010 | 0.013 | 0.016 | 0.020 | 0.025 | 0.032 | 0.040 | 0.050 | 0.085 | 0.100 | 0.125 |
| 6" | 6.625 | 20' | 6 | SDR 17 | SW, CLIB, CLIC | | | | | 12.6 | 15.4 | 19.2 | 23.4 | | | | |
| | | | | SDR 21 | SW, CLIB, CLIC | | | 12.6 (SW) | 15.4 (SW) | | 28.2 | | | | | | |
| | | | | Sch. 40 | SW, CLIB, CLIC | | | 12.6 | | | 28.2 (SW) | | | | | | |
| | | | | SDR 26 | SW | | | | 15.4 | | | | | | | | |
| 6.9" | 6.900 | 20' | 4 | SDR 17 | SW | | | | | 10.3 | 12.8 | 15.6 | | | | | |
| | | | 6 | SDR 21 | SW, CLIB, CLIC | | | 12.6 | | | | | | | | | |
| | | | | SDR 27.6 | SW | | | 12.6 | | | | | | | 28.2 (SW) | | |
| 8" | 8.625 | 20' | 6 | SDR 17 | CLIB & CLIC | | | | | | | | | | | 78.4 | |
| | | | | SDR 21 | SW | | | 17.4 | | 21.4 | 26.7 | 32.4 | 39.2 | 59.6 | | | |
| | | | | SDR 26 | SW | | | 14.9 | | | | | | | | | |
| 10" | 10.750 | 20' | 6 | SDR 17 | CL | | | | | 23.0 | 28.8 | 34.9 | 42.2 | 64.2 | | | |
| | | | | | CLIB & CLIC | | | | | | | | | | | | |
| | | | | SDR 21 | SW | | | | 23.7 | 29.5 | 35.9 | 43.4 | 66.0 | | | | |
| | | | | SDR 26 | SW | | | 19.3 | | | | | | | | | |
| 12" | 12.750 | 20' | 8 | SDR 17 | CL | | | | | | 38.3 | 46.6 | 56.3 | 85.6 | | | |
| | | | | | CLIB & CLIC | | | | | | | | 39.4 | 47.9 | 57.8 | 88.0 | |
| | | 18'8" | | Sch. 40 | SW | | | | | | | 39.4 | | 57.8 | 88.0 | 99.2 | |
| | | | | | SW | | | | | | | | | 55.1 | | | |
| | | 20' | | SDR 21 | SW | | | | | | | | 39.4 | 47.9 | 57.8 | 88.0 | |
| | SDR 26 | SW | | | | | | 31.5 | | | | | | | | | |
| 14" | 14.000 | 20' | 8 | SDR 17 | CL | | | | | | 42.1 | 51.1 | 61.7 | | | | |
| | | | | | CLIB & CLIC | | | | | | | | 43.2 | 52.5 | 63.4 | | |
| | | | | Sch. 40 | SW | | | | | | | 40.7 | | 59.7 | 90.8 | 119.4 | |
| 16" | 16.000 | 20' | 8 | SDR 17 | CL | | | | | | 44.5 | 54.1 | 65.3 | 105.0 | | | |
| | | | | | CLIB & CLIC | | | | | | | | 45.7 | 55.6 | 67.1 | 102.2 | |
| | | | 10 | Sch. 40 | SW | | | | | | | 47.6 | 57.9 | 69.9 | 106.5 | 139.9 | |
| | | | | | SW | | | | | | | | | | | | |
| | | | | SDR 26 | CLIB & CLIC | | | | | | | | | | 106.5 | 139.9 | |
| | | CL | | | | | | | | | | 103.6 | 136.2 | | | | |
| 17.4" | 17.400 | 20' | 8 | SDR 17 | CLIB & CLIC | | | | | | 45.7 | 55.6 | 74.6 | 113.6 | | | |
| | | | | | CL | | | | | | | | 44.5 | 54.1 | 72.6 | 110.5 | |

| 1/2" SLOT SPACING | | | | | | | | | |
|-------------------|---------|--------|---------------------|--------|--------------------|----------------------------------------------------------|--------|--------|--------|
| Nom. Size | OD | Length | Number of Slot Rows | Class | Joint Availability | O.D. Open Area (in ² /foot of Slotted Casing) | | | |
| | | | | | | Slot Width @ 1/2" Spacing | | | |
| | | | | | | 0.032" | 0.050" | 0.085" | 0.125" |
| 4.5" | 4.950" | 20' | 2 | SDR 17 | CLIB & CLIC | 3.7 | 5.6 | | |
| 12" | 12.750" | 20' | 8 | SDR 17 | CLIB | | | | 69.4 |
| | | | | | CL | | | | 67.4 |
| 16" | 16.000" | 20' | 10 | SDR 26 | SW | | | 59.3 | |
| 17.4" | 17.400" | 20' | 8 | SDR 17 | CLIC | | | | 80.6 |
| | | | | | CL & CLIB | | | | 78.3 |

Key: SW = Sure-Fit Solvent Weld Belled End
 CLIB = Certa-Lok Restrained Joint Integral Bell

CL = Certa-Lok Restrained Joint (w/ coupling)
 CLIC = Certa-Lok Restrained Joint Integral Bell (w/ CLIC spline)

Notes: 1. All dimensions are in inches unless otherwise specified.

2. Specifications subject to change. Standard manufacturing tolerances apply.

| 1" SLOT SPACING | | | | | | | | | | |
|-----------------|---------|--------|---------------------|----------------|--------------------|----------------------------------------------------------|--------|--------|--------|--------|
| Nom. Size | OD | Length | Number of Slot Rows | Class | Joint Availability | O.D. Open Area (in ² /foot of Slotted Casing) | | | | |
| | | | | | | Slot Width @ 1" Spacing | | | | |
| | | | | | | 0.020" | 0.025" | 0.032" | 0.040" | 0.125" |
| 4" | 4.5" | 20' | 3 | SDR 21 | SW | 1.5 | 1.9 | 2.5 | | |
| | | | 3 | Sch. 40 | SW, CLIB, CLIC | | | 2.5 | | |
| | | | 4 | | SW | | | 3.3 | | 11.9 |
| 4.5" | 4.950" | 20' | 3 | Sch. 40 | SW | | | 2.9 | 3.6 | |
| | | | 4 | | SW | | | 3.8 | | |
| | | | | CLIB & CLIC | | 2.9 | 3.8 | 4.7 | | |
| | | | | SDR 17 | CLIB & CLIC | | | 3.8 | | |
| 5" | 5.563" | 20' | 4 | SDR 21/Sch. 40 | SW | | | 4.2 | | 15 |
| | | | | SDR 17 | CLIB & CLIC | | | 4.2 | | |
| 6" | 6.625" | 20' | 4 | Sch. 40 | CLIB & CLIC | | 2.7 | | 4.3 | |
| | | | | | SW | | | 3.5 | | |
| 10" | 10.750" | 20' | 6 | SDR17 | CLIB & CLIC | | | | | 28.9 |

Key: SW = Sure-Fit Solvent Weld Belled End
 CLIB = Certa-Lok Restrained Joint Integral Bell

CL = Certa-Lok Restrained Joint (w/ coupling)
 CLIC = Certa-Lok Restrained Joint Integral Bell (w/ CLIC spline)

Notes: 1. All dimensions are in inches unless otherwise specified. 2. Specifications subject to change. Standard manufacturing tolerances apply.

Certa-Lok® Packaging & Weights

| Nom. Size | Class | Weight per Foot | Feet per Lift | Lifts per Truckload | Feet per Truckload | Lbs. per Truckload |
|-----------|---------------|-----------------|---------------|---------------------|--------------------|--------------------|
| 4" | SCH 40 | 2.09 | 580 | 28 | 16,240 | 33,454 |
| 4.5" | SCH 26 | 1.87 | 520 | 24 | 12,480 | 23,213 |
| | SCH 40 | 2.43 | 520 | 24 | 12,480 | 29,578 |
| | SDR 17 | 2.82 | 520 | 24 | 12,480 | 34,320 |
| 5" | SDR 21/SCH 40 | 2.92 | 460 | 24 | 11,040 | 31,574 |
| | SDR 17 | 3.56 | 460 | 24 | 11,040 | 38,530 |
| | SCH 80 | 4.05 | 460 | 24 | 11,040 | 43,718 |
| 6" | SCH 40 | 3.68 | 400 | 20 | 8,000 | 29,040 |
| | SDR 21 | 4.13 | 400 | 20 | 8,000 | 32,480 |
| | SDR 17 | 5.04 | 400 | 20 | 8,000 | 39,600 |
| 6.9" | SDR 21 | 4.47 | 340 | 20 | 6,800 | 30,396 |
| | SDR 17 | 5.44 | 340 | 20 | 6,800 | 35,496 |
| 8" | SDR 17 | 8.59 | 280 | 16 | 4,480 | 37,542 |
| 10" | SDR 17 | 13.40 | 80 | 36 | 2,880 | 38,217 |
| 12" | SDR 17 | 18.79 | 80 | 28 | 2,240 | 42,314 |
| 14" | SDR 17 | 23.19 | 120 | 12 | 1,440 | 32,472 |
| 16" | SDR 26 | 21.03 | 120 | 12 | 1,440 | 29,491 |
| | SDR 17 | 30.58 | 120 | 12 | 1,440 | 45,590 |
| 17.4" | SDR 17 | 35.46 | 60/40 | 10/10 | 1,000 | 34,430 |