PVC WELL SCREENS, DROP PIPE AND CASING

A full line of PVC products that include: Vee-Wire® well screens, slotted well screens, casings and accessories—providing an economical and long-lasting design option compared to steel.

BETTER DESIGN

PVC screens, casings and fittings that are ideal for most wells. The flexibility to specify and design a wide variety of slot openings, instead of choosing from two or three standard sizes, allows for the customer to have a well that meets their specifications.

The Johnson Screens brand of PVC well products is designed and manufactured to industry standards, with tolerances that meet or exceed the customer’s needs. This results in a long-lasting well that requires less maintenance.

CUSTOMER SUPPORT

Experienced and knowledgeable customer service representatives, technical support staff and engineers, provide customers with solutions to a variety of issues, including screen and casing size recommendations, installation suggestions and lab analysis.

LOCALLY AVAILABLE

With an extensive distributor network, the Johnson Screens brand is available to customers through a number of distributors worldwide.

PVC HANDLING AND STORAGE

PVC pipe should be handled properly to ensure its performance. For appropriate guidelines and procedures for all Johnson Screens PVC products, please contact the customer support team.
PVC WELL CASING

The Johnson Screens brand offers multiple PVC casing styles and connection mechanisms that can all be applied to a variety of PVC and steel products for use in multiple applications.

Fast, easy and efficient to assemble, the Johnson Screens PVC casings are a lightweight alternative to steel casings.

All connection mechanisms assemble quickly and easily with no glues or primers, leading to reduced installation time and costs.

FEATURES OF ALL MECHANICAL JOINT CONNECTIONS INCLUDE:  
- Environmentally friendly
- Ideal for use in many climates
- Quick disassembly that eliminates the need for joint cutting
- Can be used in both vertical and horizontal applications
- Available as screen or casing
- Available in a variety of schedules or pipe class

APPLICATIONS FOR CASING AND CONNECTION MECHANISMS INCLUDE:  
- Water well
- Irrigation
- Mining
- Dewatering
- Hybrid wells (steel and PVC combination)

01 QUICKLOC®  
Quickloc is a patented locking joint mechanism for well casings that can be applied to a variety of PVC and steel products and is as strong as existing flush thread or spline lock designs.

Additional features include:
- A longer bell than other mechanical joints for added strength
- O-rings packed with each skid
- Available in sizes 4.5 to 6 in.

02 SHUR-A-LOCK®  
Shur-A-Lock is a proven spline joint mechanism used throughout many industries.

What separates Shur-A-Lock from other spline lock products is:
- A longer bell for added strength
- Two O-rings and one spline for on-site assembly (packaged in each skid)
- Blue spline guideline
- Available in sizes 4 to 6 in.

03 FLUSH THREAD CONNECTIONS  
ShurGrip® pipe has a holding groove that encircles the female end for easy installation.

Features of ShurGrip and other flush thread connections include:
- Allows for use of a smaller borehole
- Available in many thread-per-inch designs
- Pre-installed O-ring
- Pipe is specially cleaned and bagged for environmental applications
- Available in sizes 0.5 to 18 in.
PVC VEE-WIRE® SCREENS

Commonly used in shallow wells, sonic-welded PVC Vee-Wire® screens, have a open area per given slot.

PVC Vee-Wire screens resist corrosion from salts and gases commonly found in salt or fresh water and are resistant to acid treatments used to clean wells.

Sizes range from 1.25 to 8 in., and screen slot sizes, can be as small as 0.005 in.

END FITTINGS
PVC screens are supplied with standard flush threads or plain ends for connecting to standard PVC fittings.

BETTER WELL DEVELOPMENT AND MORE OPEN AREA
Removing fines from the filter pack or formation to increase the well’s efficiency. To do this effectively, development energy must pass through the screen with minimum interference, which requires a high open area.

Johnson Screens PVC Vee-Wire screens has more open area per foot than other non-metallic screens. This allows more water to enter at lower velocities, reducing turbidity and allowing for a more representative sample to be collected.

PVC VEE-PACK™ PRE-PACKED SCREENS

Some subsurface conditions, such as heaving, caving and silty sand, make conventional gravel pack placement difficult or impossible. The solution is Vee-Pack™ screens.

Vee-Pack screens contain an integral gravel pack that is held in place between two concentric screens. This assembly is then installed in a single operation.

STANDARD FEATURES OF THE VEE-PACK INCLUDE:
- Smaller borehole
- Slot spacing as small as 0.008 in.
- Standard 2 and 4 in. sizes available
- Reduces cutting disposal
- Factory-installed re-sieved silica sand filter pack is uniform without voids
- Fine-grade pack allows sediment-free sampling
- High screen open area
- Sonic-welded construction eliminates solvents which can affect sample integrity
- Schedule 40 and 80 flush threads available
- Thread-on points ease installation in heaving sands
PVC SLOTTED WELL SCREENS

Slotted PVC well screens are used for a variety of applications, in sizes ranging from 0.5 to 18 in., and lengths up to 20 ft. Slot sizes can range from 0.006 to 0.500 in. in multiple row patterns and spacings.

Slotted screens are available in standard Schedule 40, 80 and 120 PVC, as well as special schedules, upon request.

Technical support is available for screen design, and use and installation, to ensure the slotted screen performs at full capacity.

APPLICATIONS FOR SLOTTED SCREENS INCLUDE:
- Water well
- Environmental
- Dewatering
- Suction header
- Leachate
- Air sparging
- Soil vapor extraction
- Other specialty applications

PVC FITTINGS AND ACCESSORIES

There is a wide range of fittings and accessories available for use with PVC well screens, casings and drop pipes.

FITTINGS AND ACCESSORIES INCLUDE:
- Male plugs
- Female caps
- Male and female points
- Male and female lifting bails
- Male NPT and female FJT adaptors
- Slip points
- Slip bottoms
- Slip caps
- HDPE hollow stem auger plugs
- Morrison locking plugs
- Stainless steel centralizers
- PVC surge blocks
- Grouting caps
- Steel well protectors
**PVC DROP PIPE**

*Shur-Align® NPT drop pipe’s patented design allows for quick and safe installation*

The Shur-Align drop pipe has the longest inlet bell in the industry; funneling and aligning the pipe before the threads engage, eliminating cross threading and speeds up the assembly process.

No coupling is required, reducing the possibility of leaks and speeding up assembly time. There is just one thread makeup versus the two required with standard couplings.

The entire joint, not just the threaded bell, is formed from Schedule 120 PVC for maximum strength and durability, making installation of submersible pumps quicker and simpler.

**ADVANTAGES OF THE SHUR-ALIGN DROP PIPE INCLUDE:**

- No couplings
- Simple alignment and engagement
- Beveled shoulder for easier pump service
- Quick makeup
- Watertight seal
- Sizes range from 1 to 2 in.

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**MALE-X-MALE DROP PIPE**

*Male-X-Male NPT drop pipe coupling is available in a wide range of sizes and pipe schedules*

The Male-X-Male PVC drop pipe with stainless steel coupling eliminates corrosion issues and provides longer well life than corrosion-sensitive steel drop pipe.

Offered in Schedule 80 and 120, the Male-X-Male drop pipe provides the most economical solution for water well applications.

**ADVANTAGES OF THE MALE-X-MALE DROP PIPE INCLUDE:**

- Stainless steel couplings for a variety of sizes; exclusive design for 3 to 8 in. (76 to 203 mm)
- Simple alignment and engagement
- Quick makeup
- Watertight seal
- Sizes range from 1 to 8 in.
- Available in Schedule 80 and 120
- Coupling can be ordered pre-installed on the pipe to eliminate insufficient couplings at the job site
- Pipe can be ordered “bundled” in 100 ft. quantities
THE COMBINATION OF A LIGHT-WEIGHT DESIGN AND FLEXIBILITY, MAKES PVC A COST-EFFECTIVE SOLUTION FOR:

- Water wells
- Water monitoring wells
- Environmental
- Soil vapor extraction
- Sparging - air or oxygen
- Bioremediation
- Free product recovery
- Groundwater extraction
- Drainage and dewatering
- Leachate collection
- Heavy metal sampling
- Corrosive fluids
- Mining

FABRICATION OPTIONS INCLUDE:

- PVC casing and well screens from 0.50 to 18 in. (13 to 400 mm) diameter
- Plain end, flush joint, NPT or custom threaded
- Threaded products supplied in laying lengths
- Screen openings from 0.005 to 0.50 in. (0.01 to 13 mm)
- Standard and custom lengths up to 20 ft. (6.1 m)

ENVIRONMENTAL MONITORING APPLICATION

Manufacturing a complete line of PVC well screens, casings and accessories suited for groundwater monitoring and remediation, Johnson Screens products meet manufacturing techniques and process requirements of the environmental and remediation markets.

Bilfinger Water Technologies can provide the following:

- No printing on screen or pipe
- Cleaned and bagged
- Flush thread connections
- O-rings that are pre-installed
- Boxed or bulk package options are available