

## Shur-Grip® Flush Threaded Casing and Screen System



### Features and Benefits

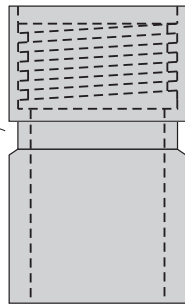
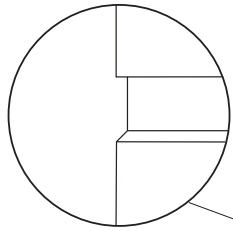
- The Shur-Grip® female end has an encircling OD holding groove machined for the Johnson Screens® Shur-Grip Elevator
- Male and female Shur-Grip fittings are available in stainless steel, allowing both PVC / SS (Hybrid), or all stainless steel or all PVC completion
- The flush OD assembly greatly reduces resistance when installing external tubing, gravel and grout, or allows a smaller borehole, reducing cost
- The Shur-Grip PVC flush assembly reduces drilling time and eliminates costly waiting time required when gluing together standard bell-end casing
- Shur-Grip PVC casing and PVC slotted screen are available in lengths up to 20 ft. and some flush connections have tensile strength exceeding other mechanical connections
- Shur-Grip can be supplied in Schedule 80, SDR17 and Schedule 120. Other wall thicknesses are available on request
- Lifting bail, caps and plugs are available for all sizes of pipe

### Specifications

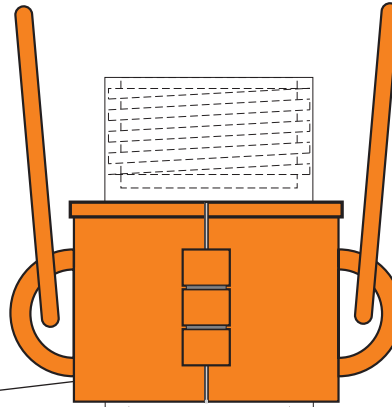
- Shur-Grip pipe is available in nominal sizes of 4 - 16 in.
- Standard pipe laying length is 20 ft.
- Materials adhere to ASTM standards D1784, F480 and NSF-61
- Standard Shur-Grip casing is white, unless otherwise specified on order
- Shur-Grip casing is marked with all necessary information, including date of manufacture and nominal size
- Slotted pipes are available with multiple rows and a variety of machined slot sizes to maximize open area and strength

# Best practices to assure trouble free assembly

- Always inspect product prior to installation
- Remove dirt and grit from threads
- Use an NSF approved lubricant
- Take care to prevent male thread damage when hoisting into derrick
- Use a strap wrench to prevent gouging



Shur-Grip machined groove



Shur-Grip Holding Elevator

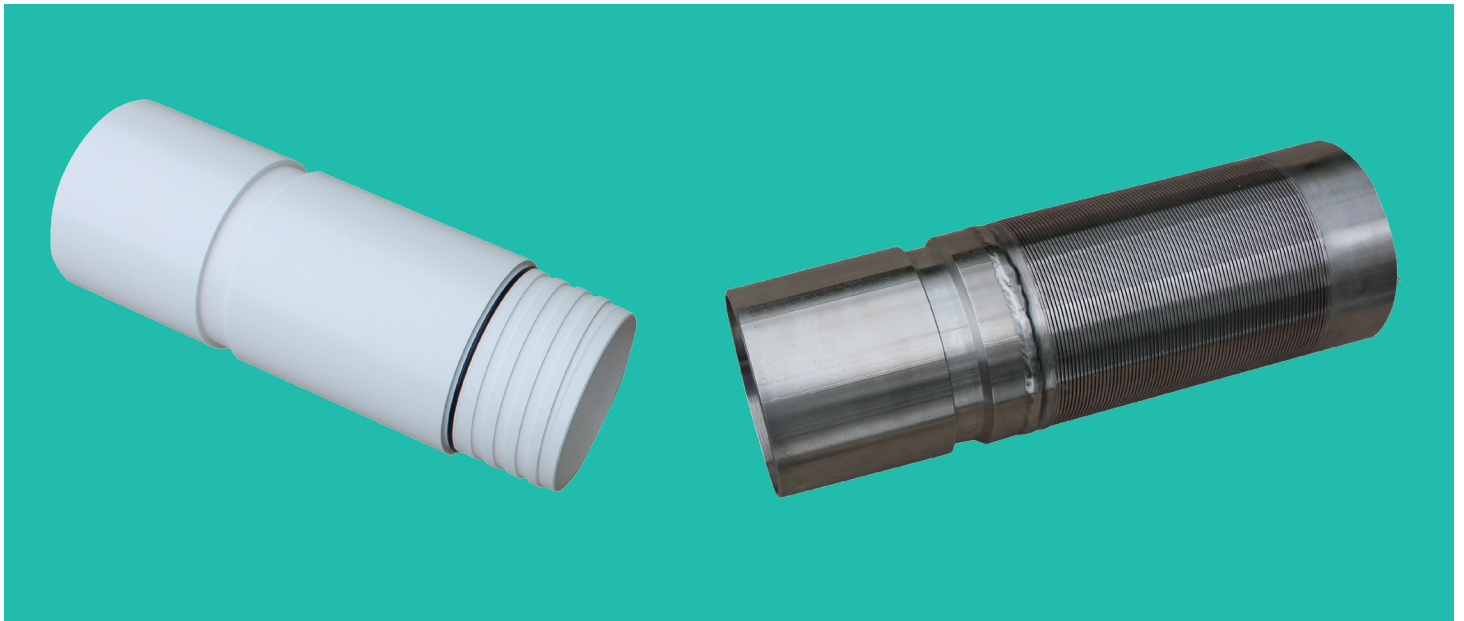
Stainless steel hybrid connection

Stainless steel or PVC well screen

# Technical data and available sizes

Nominal Pipe Size (in.)	Pipe Class	Outside Diameter (in.)	Approx. Inside Diameter (in.)	Min. Wall Thickness (in.)	Approx. Weight (lbs./ft.)	Joint* Tensile Strength with 2:1 Safety Factor	Typical Setting Depth* (ft.)
4	80	4.50	3.80	0.337	2.78	6523	1000
4	120	4.50	3.60	0.437	3.52	8773	1000
4.5	SDR 17	4.95	4.34	0.291	2.80	7728	1000
5	SDR 17	5.56	4.88	0.327	3.50	7968	1000
5	120	5.56	4.370	0.500	5.00	12,439	1000
6	80	6.63	5.70	0.432	5.31	12,405	800
6	SDR 17	6.63	5.80	0.390	5.00	12,405	600
6	120	6.63	5.30	0.562	7.13	17,178	1000
6.9	SDR 17	6.9	6.02	0.406	5.22	12,900	1000
8	SDR 17/80	8.63	7.57	0.508	8.70	18,428	800
8	120	8.63	7.15	0.718	11.28	28,548	1000
10	SDR17	10.75	9.38	0.632	13.27	26,365	1000
12	SDR17	12.75	11.13	0.750	18.89	36,294	1000
14	80	14.00	12.41	0.750	20.85	43,479	600
14	SDR 17	14.00	12.21	0.825	22.55	43,479	800
16	80	16.00	14.21	0.843	26.81	55,115	600
16	SDR17	16.00	13.95	0.941	31.66	55,115	600

\* Can be used at deeper depths if proper development techniques are used. Contact Customer support for specific recommendations regarding special applications



Shur-Grip hybrid well connection to a Johnson Screens brand of stainless steel well screen. Shur-Grip casing can also connect to a Johnson Screens brand of PVC well screen.



Shur-Grip flush thread allows for a quick assembly



Shur-Grip machined groove allows for a quick and secure elevator connection

### PVC pipe behavior at different temperatures\*

Temperature (F°)	40.0	50.0	60.0	70.0	73.4	80.0	90.0	100.0	110.0	120.0	130.0	140.0
Temperature (C°)	4.0	10.0	16.0	21.0	23.0	27.0	32.0	38.0	43.0	49.0	54.0	60.0
Conversion Factor	1.4	1.3	1.15	1.04	1	0.88	0.75	0.62	0.51	0.4	0.31	0.22

#### Note

- PVC pipe exhibits a decreasing pressure rating and stiffness with increasing temperature. As with dimensions, the pressure ratings and published pipe stiffness figures for PVC pipe are listed at an ambient temperature of 73°F.
- To determine the pressure ratings and stiffness of PVC pipe at higher or lower temperatures, multiply the pressure rating, pressure class, and the stiffness/deflection by the pipe's conversion factor.
- Consult the manufacturer of your pipe for specific data. The typical upper limit for continuous use of PVC pipe is 140°F.

The PVC materials used in the Johnson Screens brands are listed by NSF International and comply to NSF Standard 61, safe for use in potable water applications. ASTM Standard D1784, standard specification for rigid PVC compounds, uses a cell classification system to call out minimum physical property requirements (base resin, minimum impact strength, tensile strengths, modulus of elasticity, heat deflection temperature under load, and flammability when tested per applicable ASTM standards) of compounds that are used in the production of PVC pipe and fittings. Rigid PVC compound used for manufacture of pipe has a Cell Classification of 12454 per ASTM D1784 and is also known as Type I, Grade I PVC, or PVC 1120.

### Johnson Screens Water Well Screens

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