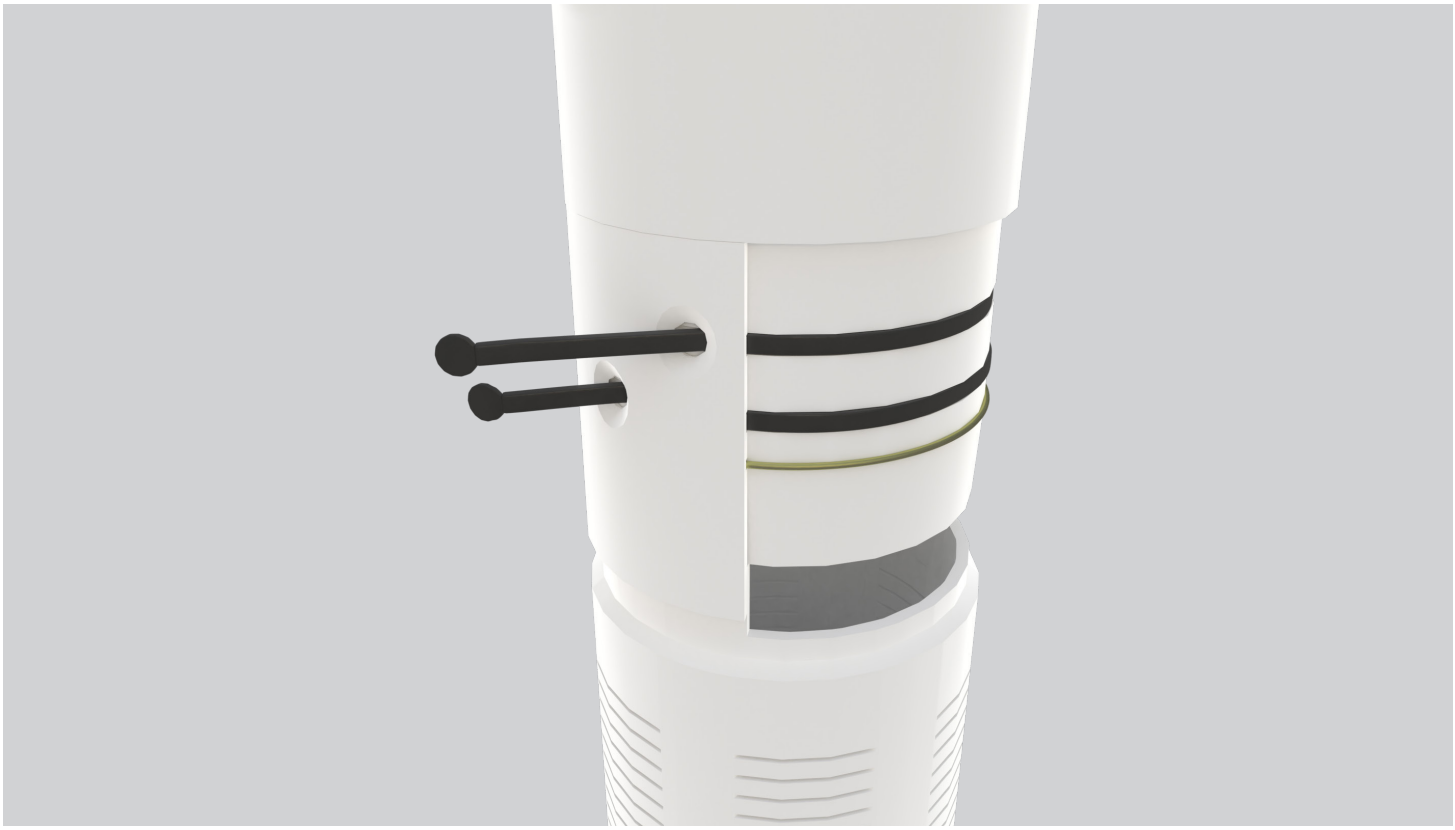
Johnson Screens

A brand of
Aqseptence Group

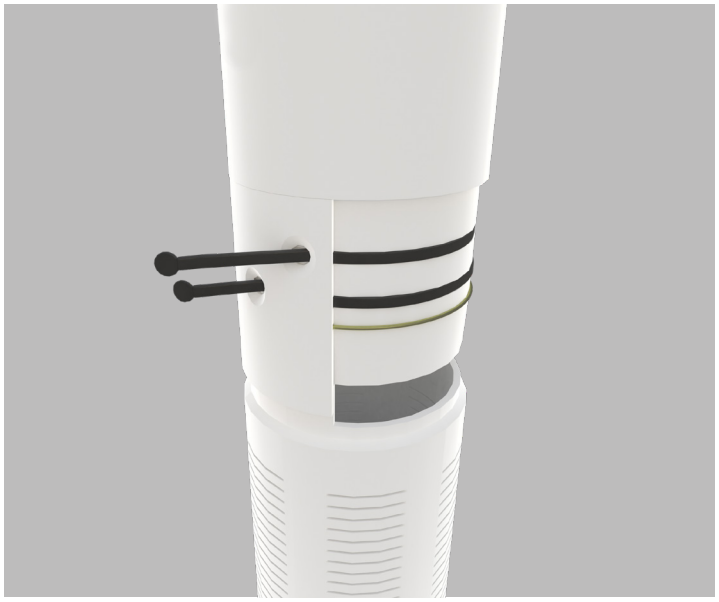
PVC Shur-Grip® Spline connection, a newly redesigned casing and screen system for water wells

Johnson Screens' PVC Shur-Grip Spline connection, with a machined lifting groove, is the industry's fastest and easiest installation of flush joint casing and screen.



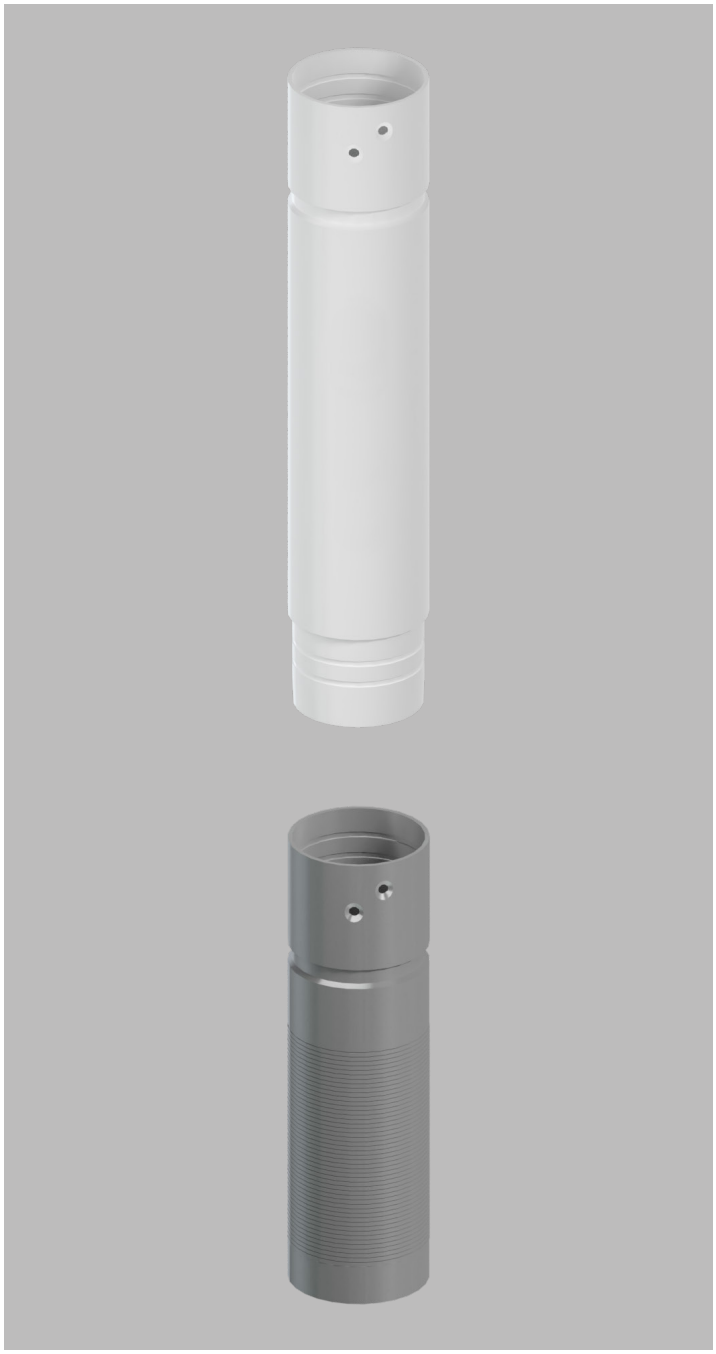
Features and Benefits

- New patent pending spline design is faster and easier to install
- The Shur-Grip female grooved end provides superior holding of the entire assembly
- Button Spline design allows for easy insertion and is recessed into the joint — no need to cut excess spline
- Flush Joint male-x-female connection reduces borehole size required
- The flush OD assembly greatly reduces the possibility of bridging during grouting or gravel packing
- Internal O-ring design provides exceptional sealing
- Johnson Screens' stainless steel screens can be easily connected



Button Spline design allows for easy insertion and is recessed into the joint — no need to cut excess spline

Lifting grove end allows for easy installation



Shur-Grip Spline PVC to stainless connection for a Johnson Screens' stainless steel well screen

Available in standard and custom slotting patterns

Dimensions and performance data

Nominal Pipe Size (in.)	Pipe Class	Outside Dia. (in.)	Min. Wall Thickness (in.)	Average Inside Dia. (in.)	Wt/Ft. (lbs.)	Recommended Working Tensile Strength (lbs.)	Max. Tested Tensile Strength (lbs.)	Resistance to Hydraulic Collapse (psi.)	Recommended working Burst pressure (psi.)	Rated Pipe Pressure (psi.)	Ft/ Pallet
6.9	SDR17	6.90	0.41	6.02	5.22	8,130	16,260	215	125	250	400
8	SDR17	8.63	0.51	7.57	8.40	13,050	26,100	215	125	250	180
10	SDR17	10.75	0.63	9.38	13.27	13,770	27,540	215	125	250	140
12	SDR17	12.75	0.75	11.13	18.89	26,130	52,260	215	125	250	80
14	SDR17	14.00	0.83	12.21	22.55	29,000	58,000	215	125	250	60
16	SDR17	16.00	0.94	13.95	31.66	29,000	58,000	215	125	250	60

Standard Compliances:

- Johnson Screens' well casing is produced from Type 1, Grade 1 virgin compound which exceeds the materials requirements for ASTM Standard F-480
- This product is specifically manufactured for use in water well construction.
- ASTM D-2241, standard for pressure pipe (NSF-pw-G)
- ASTM F-480, standard for well casing (NSF-wc)
- Material complies with ANSI/NSF Standard 14 and adheres to NSF-61

				Available Slot Sizes- Net open Area (square in. per ft.)									
Size (in.)	Pipe Class	Rows	Spacing (in.)	0.020	0.025	0.030	0.032	0.040	0.050	0.060	0.080	0.100	0.125
6.9	SDR17	6	0.250	9.67	11.87	13.99	14.81	18.00	12.76	25.27	31.65	37.30	
		6	0.375										30.38
8	SDR17	8	0.250			13.50	14.30	17.38	21.00	24.39	30.55	36.00	
		6	0.375										42.75
10	SDR17	8	0.375			10.67	11.32	13.88	16.94	19.86	25.32	30.32	36.00
12	SDR17	8	0.375					20.24	24.70	28.96	36.91	44.20	52.49
14	SDR17	8	0.375					23.72	28.95	33.94	43.26	51.80	61.51
16	SDR17	10	0.375						29.12	34.15	43.53	52.12	61.89

Note:

- True open area calculated on the inside slot length
- Custom slotting available

Single O-ring and button spline design ensures a water tight seal

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

* Source: Plastic Pipe and Fittings Association

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.
- 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.

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