

Shur-A-Lock® PVC well casing — redesigned for a faster, easier and lower cost installation

Johnson Screens' Shur-A-Lock is manufactured to the highest joint tolerances, allowing for easy assembly with no special tools



Features and Benefits

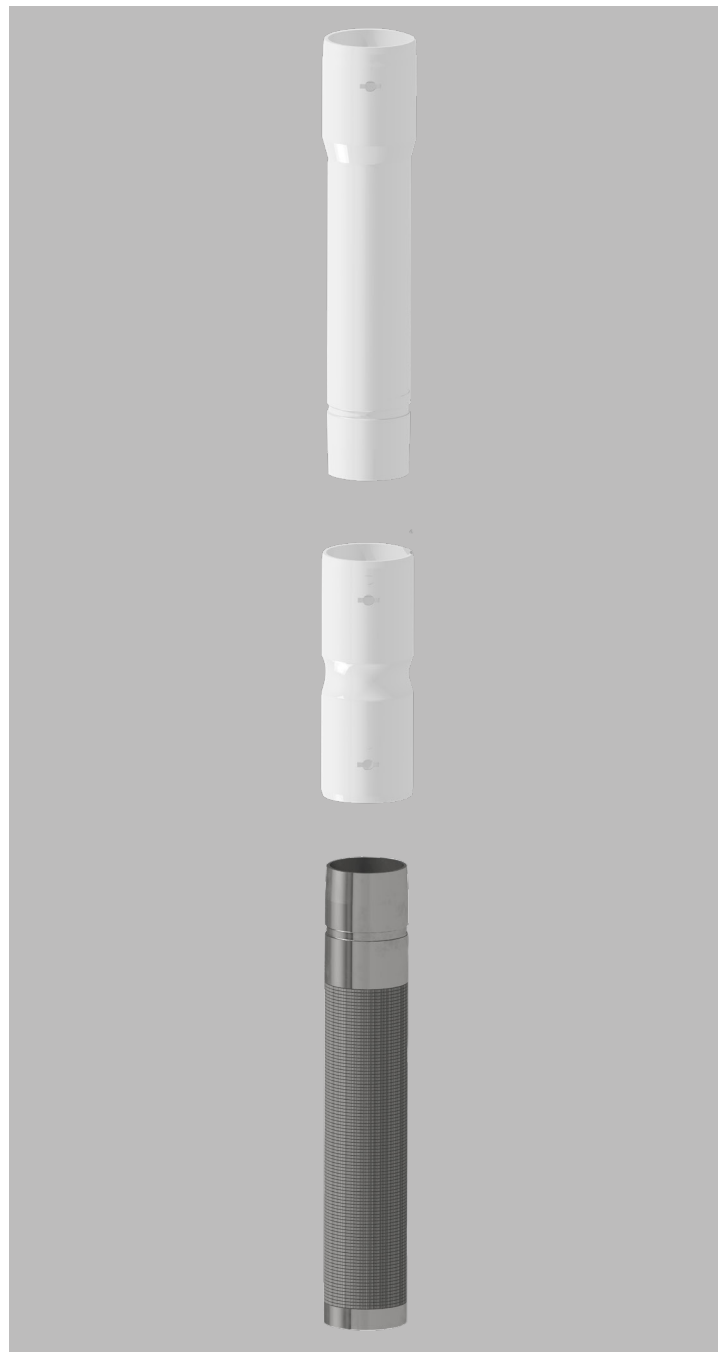
- Button Spline design allows for easy insertion and is recessed into the joint — no need to cut excess spline
- Long bell provides exceptional joint strength
- Tapered male end allows for less assembly force past O-ring
- Single O-ring design for a watertight seal
- IC-2 Impact Class Rating for proven strength in all environments
- Shur-A-Lock well casing conforms to ASTM F-480, NSF requirements.



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Standard bell end allows for traditional elevators to be used



Shur-A-Lock hybrid well connection to a Johnson Screens' stainless steel well screen



Available in standard and custom slotting patterns

Dimensions and performance data

Nominal Pipe Size (in.)	Pipe Class Schedule/SDR	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 (psi.)	Max. Burst Pressure* (psi.)	ft./Pallet
4	40	4.50	0.24	4.00	2.05	5,400	10,800	152	110	220	580
4.5	40/21	4.95	0.25	4.44	2.40	6,600	13,200	130	100	200	520
4.5	17	4.95	0.29	4.34	2.75	7,350	14,700	215	125	250	520
5	40/21	5.56	0.27	5.01	2.95	7,350	14,700	111	100	200	460
5	17	5.56	0.33	4.87	3.60	8,550	17,100	215	125	250	460
6	21	6.63	0.32	5.96	4.12	8,200	16,400	111	100	200	520
6	17	6.63	0.39	5.80	4.96	9,100	18,200	215	125	250	520

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.
- IC-2 rated products are tested to withstand higher/more stringent impact standards.
- 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.
- All sizes are laying length and IC-2 Rated

Size (in.)	Pipe Class	Rows	Spacing (in.)	Available Slot Sizes- Net open Area (square inches per foot)												
				0.010	0.012	0.015	0.020	0.025	0.030	0.032	0.040	0.050	0.060	0.080	0.100	0.125
4	40	6	0.25	3.12	3.71	4.58										
		4	0.25			7.11	8.73	10.29	10.89	13.24	16.00	18.58	23.27	27.43	32.00	
4.5	40/SDR21	6	0.25	3.46	4.12	5.09										
		4	0.25			7.78	9.54	11.25	11.91	14.48	17.50	20.32	25.45	29.99	35.00	
4.5	SDR17	6	0.25	3.12	3.71	4.58										
		4	0.25			7.34	9.00	10.61	11.24	13.66	16.50	19.17	24.01	28.29	33.01	
5	40/SDR21	6	0.25	3.29	3.92	4.84	7.00	8.59	10.13	10.73	13.04	15.76	18.30	22.92	27.01	
		4	0.25													38.00
5	SDR17	6	0.25	3.46	4.12	5.09	6.67	8.18	9.64	10.21	12.41	15.00	17.42	21.82	25.71	
		4	0.25													35.00
6	SDR21	6	0.25			8.15	10.67	13.09	15.43	16.34	19.86	24.00	27.87	34.91	41.14	43.51
		6	0.25			9.33	11.45	13.50	14.30	17.38	21.00	24.39	30.55	36.00	36.00	

Note:

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



Single O-ring 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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