

Shur-Grip® Spline PVC Casing and Screen

Johnson Screens' Shur-Grip Spline PVC connection is the industry's fastest and easiest installation of flush joint casing and screen for water wells.



Features and Benefits

- Button Spline design allows for easy insertion and is recessed into the joint —no need to cut excess spline.
- The Shur-Grip groove and Johnson Screen's Elevator provides superior holding of the entire assembly.
- Flush Joint male-x-female connection reduces borehole size and 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 to PVC Casing.



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.)	Ft/Pallet
6.9	SDR17	6.90	0.41	6.02	5.22	8,130	16,260	215	400
8	SDR17	8.63	0.51	7.57	8.40	13,050	26,100	215	180
10	SDR17	10.75	0.63	9.38	13.27	13,770	27,540	215	140
12	SDR17	12.75	0.75	11.13	18.89	26,130	52,260	215	80
14	SDR17	14.00	0.83	12.21	22.55	29,000	58,000	215	60
16	SDR17	16.00	0.94	13.95	31.66	29,000	58,000	215	60

Slotted screen availability

Size (in.)	Pipe Class	Rows	Spacing (in.)	Available Slot Sizes- Net open Area (square in. per ft.)									
				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

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.
- 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. Shur-Grip pipe is made from PVC compound having a cell classification of 12454 and complies with both ASTM D2241 and F480 standards.

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