



**Johnson
Screens**

A brand of
Aqseptence Group

JSL Stainless Steel Spline Connection

The Johnson Screens JSL stainless steel spline coupling with anti-rotation stud and notch, helps control geometrical characteristics, torque from higher horsepower pumps and is ideal for deeper wells - all important factors in determining the choice of the drop pipe and fitting type for the productivity, longevity and sustainability of a water well.

Stainless Steel Stainless steel has been widely used for potable water for maximum anti-corrosion protection. JSL pipes are manufactured from 304 or 316L stainless steel. Pickling and passivation is also available.

Fittings Conventional flanged fittings can be cumbersome and take a long time to install. The JSL is an economical solution, combining compactness, a water tight seal and ease of assembly.

- Features**
- Stainless steel construction
 - Stud/notch engagement prevents torque rotation
 - Groove and spline design eliminates cross threading
 - Double O-ring for pressure seal and spline protection
 - No special tools are needed to assemble or disassemble
 - Riser sections are manufactured in lengths of 10 ft. or 20 ft.
 - A short pump adapter is configured according to pump connection type and dimensions (thread, flange, etc.)
 - The riser outlet can also be customized



Technical Specifications

Nominal Size (in.)	Pipe OD (in.)	Fitting OD (in.)	Male & Female Fittings Weight (lbs)	Fitting Height (in.)	Tensile Strength* (lbs)	Fitting Service Pressure** (psi)
2	2.38	3.4	10	7	40,000	≥3,500
2.5	2.88	4.2	11	6.25	58,000	≥3,500
3	3.5	4.7	12	6.25	65,000	≥3,500
4	4.5	5.6	16	6.25	69,000	≥3,500
5	5.56	6.7	24	6.25	72,000	≥3,500
6	6.63	7.9	28	6.25	73,000	≥3,500
8	8.63	10	37	5.875	75,000	≥3,500
10	10.75	12.5	43	5.875	80,000	≥3,500

* Calculated with a 2:1 safety factor

** Testing equipment available had a maximum pressure rating of 4,900 psi at 73 °F. No leaks were detected at 4,900 psi.

Fitting Design

- Four grooves machined around the male end
- Two O-rings to ensure water tightness
- Two slots on the female end used to insert flexible splines, intended to absorb traction forces, into each intermediate groove
- Twisting forces on pump startup and shutdown are neutralized by a stud on the male end which engages in a notch on the female end

Installation

- No special tools are needed to assemble or disassemble a riser with JSL connection
- The O-rings are fitted to the female end, the male end is inserted into the female end after alignment of the anti-rotation stud and notch
- When the ends are fully seated, stainless steel spines are inserted into the slots
- When the spline appears at the other end of the slot, the connection is complete

Sealing

- Tests on the connecting fittings show 4 in. pipe size sealing 250 psi
- The JSL connections are seamless, fully machined in a heavy wall pipe
- Pull tests show tensile strength values greater than those of most applications

Johnson Screens Water Well Screens

North and South America
Phone +1 651 636 3900
info.us@johnsonscreens.com

Europe, Middle East & Africa
Phone +3 3 23 75 05 42
info.fr@johnsonscreens.com

Asia Pacific
Phone +61 7 3867 5555
info.au@johnsonscreens.com

johnsonscreens.com