

Shur-Align® Stainless Steel Coupled PVC Drop Pipe



Johnson Screens stainless steel Shur-Align drop pipe coupling has a long entry bell, allowing for a quick connection for water well applications.

Features and Benefits

- Shur-Align couplings are pre-assembled on PVC drop pipe
- No lead stainless steel 304 couplings
- Industry first long lead inlet reduces cross-threading
- Beveled ends reduce hang-ups
- Built in ribs provide secure tool placement for tightening connections
- Increased strength on deeper set installs
- Patented design

Schedule 80 Shur-Align Coupled Drop Pipe

Nominal Pipe Size (in.)	OD (in.)	Min. Wall (in.)	Approx. weight with coupler (lbs./ft.)	ASTM Water Pressure Rating (psi)	Flow Rate		Friction Loss (psi/100 ft.)	Rec Max Depth (ft.) Surface Discharge Pressure				Max Pump HP	Recommended Max Tensile Strength (lbs.)
					GPM	ft./sec.		0 psi	25 psi	40 psi	60 psi		
1	1.315	0.179	0.47	320	11.2	5	4.94	663	611	580	538	1.5	1,213
					14.6	6.5	7.88	625	576	547	508		
					17.9	8	11.42	584	539	511	475		
					22.4	10	17.03	530	489	464	431		
1-1/4	1.660	0.191	0.65	260	20.0	5	3.46	555	502	470	427	2	1,729
					26.0	6.5	5.53	532	481	450	409		
					32.0	8	8.01	506	458	428	389		
					40.0	10	11.97	470	425	398	362		
1-1/2	1.900	0.200	0.78	235	27.5	5	2.84	509	455	422	379	5	2,012
					35.8	6.5	4.54	491	438	407	365		
					44.1	8	6.59	471	420	390	350		
					55.1	10	9.86	442	395	367	329		
2	2.375	0.218	1.07	200	46.0	5	2.08	440	385	352	308	7.5	2,294
					59.8	6.5	3.32	429	375	343	300		
					73.6	8	4.83	415	363	332	291		
					92.0	10	7.22	395	346	316	277		

*Industry standards recommend not to exceed velocity of 5 ft./sec.

**Tables are only for reference, pressure and tensile ratings should not be exceeded.

Schedule 120 Shur-Align Coupled Drop Pipe

Nominal Pipe Size (in.)	OD (in.)	Min. Wall (in.)	Approx. weight with coupler (lbs./ft.)	ASTM Water Pressure Rating (psi)	Flow Rate		Friction Loss (psi/100 ft.)	Rec Max Depth (ft.) Surface Discharge Pressure				Max Pump HP	Recommended Max Tensile Strength (lbs.)
					GPM	ft./sec.		0 psi	25 psi	40 psi	60 psi		
1	1.315	0.200	0.51	360	10.2	5	5.22	741	690	659	618	1.5	1,342
					13.3	6.5	8.33	697	648	619	581		
					16.4	8	12.06	650	605	577	541		
					20.5	10	17.99	587	546	522	489		
1-1/4	1.660	0.215	0.71	300	18.5	5	3.63	639	585	553	511	2	1,768
					24.1	6.5	5.79	610	560	529	488		
					29.6	8	8.40	580	531	502	464		
					37.0	10	12.54	537	492	465	429		
1-1/2	1.900	0.225	0.86	270	25.7	5	2.96	583	529	497	453	5	2,219
					33.5	6.5	4.74	562	510	478	437		
					41.2	8	6.87	538	488	458	418		
					51.5	10	10.27	504	457	429	392		
2	2.375	0.250	1.20	240	43.0	5	2.16	527	472	439	395	7.5	2,671
					55.9	6.5	3.46	513	459	427	385		
					68.8	8	5.03	496	444	413	372		
					86.1	10	7.52	472	423	393	354		

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Best Practices

- Recommend water hammer suppressors and/or soft start controls are used with Shur-Align coupled drop pipe. Water hammer suppressors and relief valves should be placed within 20 ft. of wellhead.
- Good well-system design will take into consideration appropriate outlet flow rates and pressures when selecting pump size
- Torque arrestors should always be used with Shur-Align coupled PVC drop pipe
- Check valves are recommended
- De-rating of pipe should occur if temperatures exceed 73 degrees Fahrenheit

Shur-Align Coupler Dimensions

Coupler Size (in.)	Approx. OD (in.)	Length (in.)	Weight (lbs.)
1	1.67	3.75	1.0
1.25	2.00	3.75	1.2
1.5	2.30	3.75	1.5
2	2.75	3.75	1.8

Assembly Tips

- Apply a high quality, non-petroleum, pipe paste sealant, NSF approved for PVC, to each thread joint. Improper application of TFE tape sealants can result in over-stressed threaded connections and potential joint failures
- Do not pre-assemble pipe lengths – assemble or disassemble one length at a time in a vertical position
- Always use elevators, clamps and tools designed for PVC when handling PVC drop pipe
- Tighten joints a maximum of two turns beyond finger tight – DO NOT OVERTIGHTEN
- Ensure Coupling is properly tightened on both sides
- Avoid using tools which may gouge or damage PVC – this can lead to premature failure
- Contact Johnson Screens for PVC handling and storage instructions

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