

Hinged Non-Weld Semi-Rigid Centralizers



The Semi-Rigid Centralizer features a unique bow design that allows each centralizer two contact points with the borehole while having low starting and running forces, but very high restoring or centering forces. It is also a non-weld variety and features a bow with dual curves giving the bow an "S" shape. It simultaneously provides features found desirable in both bow-spring and rigid centralizers. Davis-Lynch Semi-Rigid Type "SR" centralizers are designed to exceed the performance requirements of API Specification 10D for both starting and restoring forces.

- As the bow OD is typically very close to hole size, the centralizer has very low starting and drag forces.
- The double profile of the bow results in much higher restoring forces than conventional bow-springs.
- Bows are made from alloy steel, heat-treated and tempered.
- Utilizes Davis-Lynch patented interlocking bow attachment to end collars.
- Can be run in highly-deviated and horizontal wellbores.
- Can be run over casing connections or stop collars.
- Can be supplied with built-in stop device if requested.
- Bows still provide some flex that allow the centralizer to compress through tight spots and severe doglegs unlike a conventional rigid centralizer.
- Can be provided with turbolizer fins to help induce turbulence in the cement slurry during pumping operations.

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Size / Type	No. Of Bows	Bow OD	Hole Size	Starting Force (Lbf)	Drag Force (Lbf)	Restoring Force (Lbf)	Minimum Compressed OD	Item No.
3-1/2 SR4	4	6.185	6-1/8	30	30	996	4.750	034SR4C
4-1/2 SR1	4	6.060	6	171	72	4000+	5.750	044SR1C
4-1/2 SR2	4	6.380	6-1/4	<150	74	4000+	5.750	044SR2C
4-1/2 SR3	4	6.630	6-1/2	<150	76	3180	5.750	044SR3C
4-1/2 SR7	4	7.880	7-7/8	<150	61	3000	5.750	044SR7C
4-1/2 SR8	4	8.000	8-1/4	<150	<50	6000+	5.750	044SR8C
4-1/2 SR8	4	8.000	8-1/2	<150	<50	5840	5.750	044SR8C
4-1/2 SR9	4	8.750	8-1/2	<150	<50	4765	5.750	044SR9C
4-1/2 SR9	4	8.750	8-3/4	<50	<50	1392	5.750	044SR9C
*5 SR1	4	6.560	6-1/2	<150	63	4000+	6.250	050SR1C
5 SR6	4	8.000	7-7/8	<150	67	3585	6.250	050SR6C
5 SR7	4	8.250	8-1/4	<150	<50	4000+	6.250	050SR7C
5 SR7	4	8.250	8-3/8	<50	<50	4000+	6.250	050SR7C
5 SR8	4	8.680	8-1/2	<150	71	4000+	6.250	050SR8C
5-1/2 SR4	4	7.880	7-7/8	<150	68	1720	6.750	054SR4C
5-1/2 SR6	4	8.500	8-1/2	<150	74	2910	6.750	054SR6C
5-1/2 SR7	4	8.880	8-3/4	<150	70	2540	6.750	054SR7C
5-1/2 SR9	4	9.680	9-7/8	<150	74	4000+	6.750	054SR9C
*7 SR1	6	8.630	8-1/2	<150	72	4000+	8.250	070SR1C
7 SR2	6	8.880	8-3/4	783	333	4000+	8.250	070SR2C
7 SR6	6	10.000	9-7/8	<150	74	4000+	8.250	070SR6C
7-5/8 SR3	6	9.500	9-1/2	<150	<50	5010	8.875	075SR3C
7-5/8 SR4	6	10.000	9-7/8	<150	68	4000+	8.875	075SR4C
*8-5/8 SR5	6	11.000	11	276	121	4000+	9.875	085SR5C
8-5/8 SR8	6	12.310	12-1/4	<150	76	4000+	9.875	085SR8C
9-5/8 SR5	6	12.380	12-1/4	683	333	4000+	10.875	095SR5C
9-7/8 SR4	6	12.250	12-1/4	<150	60	4000+	11.125	097SR4C
**10-3/4 SR1	6	12.380	12-1/4	<150	63	4000+	12.000	106SR1C
10-3/4 SR5	6	13.500	13-1/2	<150	68	4000+	12.000	106SR5C
10-3/4 SR9	6	15.000	14-3/4	777	383	4000+	12.000	106SR9C
11-3/4 SR6	6	14.810	14-3/4	180	80	4000+	13.000	116SR6C
11-3/4 SR8	6	15.500	15-1/2	180	81	4000+	13.000	116SR8C
13-3/8 SR9	8	17.630	17-1/2	<50	<50	7150	14.625	133SR9C
13-5/8 SR9	8	17.875	17-1/2	<150	<50	7380	14.875	135SR9C
16 SR4	8	18.375	18	<150	<50	2500	17.250	160SR4C
16 SR9	8	20.250	20	745	302	4000+	17.250	160SR9C
18-5/8 SR7	10	22.060	22	<150	71	4000+	19.875	185SR7C
20 SR9	12	24.250	24	605	256	4000+	21.250	200SR9C
20 SR10	12	26.130	26	757	319	4000+	21.250	200SR10C

*Starting force derived from testing over stop collar
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 All measurements are in inches
 Restoring forces at 67% standoff as per API standard