

Retrievable Packers

AS1-X Retrievable Production Packer

The AS1-X Retrievable Production Packer effectively meets several requirements for zone isolation, injection, pumping and production. Full opening gives unrestricted flow and allows the passage of wireline tools and other accessories. Amechanical lock-set action holds substantial pressures from above or below the packer, whether the packer is left in tension, compression or neutral. A large internal bypass reduces the swabbing effect when running or retrieving. The bypass closes upon setting the packer. When releasing, the bypass opens first to equalize pressures before releasing the upper slips. The AS1-X Retrievable Production Packer has a rotational safety release feature, or an optional adjustable straight pull shear safety release.

The AS1-X Retrievable Production Packer can be set by compression or with tension, thus making it ideal for shallow wells requiring the use of fiberglass tubing.

Product Features

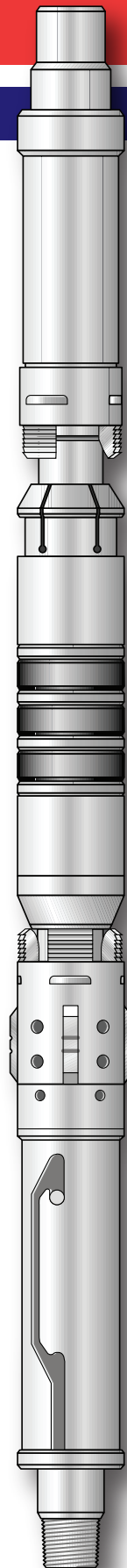
- Available with Ecner Array
- Patented releasing slip system
- Bypass Valve below upper slips so the debris is washed from slips when valve is opened
- Bypass valve opens before hold down is released
- Can be set with tension for use in shallow wells
- No tension or compression required to hold tool in place after set
- 1/4 turn right-hand set, right-hand release
- Safety release (optional)

(see specification chart on next page)

AS1-X 10K packer incorporates all the features of AS1-X, with the ability to

withstand differential pressure of 10,000 psi from above or below. AS1-X 10K is not available in sizes larger than 7-5/8".

AS1-X HP packer incorporates all the features of AS1-X, with the ability to withstand differential pressure of 7,500 psi from above or below. AS1-X HP is not available in sizes larger than 9-5/8".



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AS1-X Retrievable Production Packer-Continued

Specifications (2-7/8" -13-7/8")

Casing Size	Weight	O.D. of Tool	Nominal Casing I.D. Range		Packer Bore	Standard Thread Connection
			Min.	Max.		
2-7/8"	6.4 - 6.5	2.250	2.376	2.441	0.625	0.750 EU 10RD
3-1/2"	7.7 - 10.2	2.781	2.922	3.068	1.250	1.500 EU 10RD
	4" 9.5 - 11.0	3.250	3.476	3.548	1.500	1.500 NU 10RD
4-1/2"	15.1 - 16.6	3.594	3.754	3.826	1.500	1.900 NU 10R
	13.5 - 15.1	3.680	3.826	3.920	1.938	2.375 EU 8RD
	9.5 - 13.5	3.750	3.920	4.090	1.938	2.375 EU 8RD
5"	18.0 - 20.8	4.000	4.156	4.276	1.938	2.375 EU 8RD
	11.5 - 15.0	4.125	4.408	4.560	1.938	2.375 EU 8RD
5-1/2"	20.0 - 23.0	4.500	4.670	4.778	1.938	3.375 EU 8RD
	13.0 - 17.0	4.625	4.892	5.044	1.938	2.375 EU 8RD
	20.0 - 23.0	4.500	4.670	4.778	2.375	2.875 EU 8RD
	15.5 - 20.0	4.625	4.778	4.950	2.375	2.875 EU 8RD
	13.0 - 14.0	4.813	5.012	5.044	2.375	2.875 EU 8RD
6"	15.0 - 20.0	5.188	5.352	5.524	2.375	2.875 EU 8RD
6-5/8"	24.0 - 32.0	5.500	5.675	5.921	2.500	2.875 EU 8RD
	20.0 - 24.0	5.750	5.921	6.049	3.000	3.500 EU 8RD
	17.0 - 24.0	5.750	5.921	6.135	2.500	2.875 EU 8RD
7"	29.0 - 35.0	5.812	6.004	6.184	2.500	2.875 EU 8RD
	17.0 - 26.0	6.000	6.276	6.538	2.500	2.875 EU 8RD
	26.0 - 32.0	5.875	6.004	6.276	3.000	3.500 EU 8RD
	17.0 - 26.0	6.000	6.276	6.538	3.000	3.500 EU 8RD
7-5/8"	39.0 - 45.3	6.250	6.435	6.625	2.500	2.875 EU 8RD
	33.7 - 39.0	6.453	6.625	6.765	2.500	2.875 EU 8RD
	24.0 - 29.7	6.672	6.875	7.025	2.500	2.875 EU 8RD
8-5/8"	32.0 - 40.0	7.500	7.725	7.921	4.000	4.500 EU 8RD
	24.0 - 28.0	7.750	8.017	8.097	4.000	4.500 EU 8RD
9-5/8"	43.5 - 53.5	8.250	8.535	8.755	4.000	4.500 EU 8RD
	32.0 - 32.6	8.500	8.755	9.001	4.000	4.500 EU 8RD
10-3/4"	51 - 65.7	9.312	9.560	9.850	4.00	4.500 EU 8RD
	32.75 - 45.5	9.700	9.950	10.192	4.00	4.500 EU 8RD
13-3/8"	48 - 72	12.000	12.347	12.716	4.00	4.500 EU 8RD

Note: Additional sizes available on request.

