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PRODUCT CATALOG



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GIVING YOU **THE ADVANTAGE**

"Custom Solutions for Your Application"

Eagle Downhole Solutions was created to fill technology gaps not pursued by the large perennial oil and gas service companies and to provide answers to the issues that plague your operation. When you find your company in a spot that requires innovative development and services for your requirement - we can help!

The founders of Eagle have extensive experience with how new technology is developed within the large service companies and, along with our team, we work tirelessly to "get it right." Our experience, dedication, and track record allow our clients to take on the challenges of an ever-changing industry.

Through the years, Eagle has implemented successful solutions globally with focus in North America, South America, the Middle East and Asia. We have delivered custom solutions with our experience, solutions, products and services since 2005.



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INDUSTRY PARTNERS & CERTIFICATIONS

Eagle Downhole Solutions products and services have earned numerous safety and quality certifications that proudly demonstrate our industry leading technology and performance around the world. Additionally, our technology has received an API Spec. 11D1 license for Packers and Bridge Plugs.



Mechanical Set Packers



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ASI-X PACKER

The **ASI-X Single String Double-Grip Production Packer** is the most versatile of the mechanically set retrievable packers and may be used in any production application. This packer is suited for treating, testing, or injection applications, in pumping or flowing wells, either deep or shallow. This packer can be left in tension or compression depending on well conditions and the required application.

A large internal by-pass reduces swabbing when running and retrieving. The by-pass closes when the packer is set and opens prior to releasing the upper slips when retrieving to allow pressure equalization. The J-slot design allows easy setting and releasing; 1/4 turn right-hand set, 1/4 turn right-hand release.

The standard ASI-X Packer is designed for differential pressures up to 7,000 PSI

(unless noted otherwise). This packer is also available in an HT version which is designed for differential pressures up to 10,000 PSI (unless noted otherwise). The HT version allows this packer to be utilized in completions where high pressure treating operations are performed and it is desirable to leave the tool in the well for production.

Special Features

- By-pass below upper slips to wash debris when valve is opened
- By-pass is opened before upper slips are released
- Can be set with tension for shallow well applications
- Can be left in tension, compression or neutral
- 1/4 turn right-hand set, 1/4 turn right-hand release
- Additional J-Slot arrangements available



Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)						Std	HT
2-7/8	6.4 - 6.5	2.375 - 2.441	2.250	2.263 ¹	0.63	1.050 EUE	60325-3E*	-
	8.6	2.259	2.125	2.152 ¹	0.63	1.050 EUE	60324-3E*	-
3-1/2	7.5 - 7.7	3.068 - 3.250	2.938	-	1.25	1.900 NUE	60336*	-
	7.7 - 10.2	2.922 - 3.068	2.781	-	1.25	1.900 NUE	60335*	-
	12.95	2.750	2.562	-	1.00	1.315 EUE / 1.660 EUE	60337*	-
4	9.5 - 11.0	3.476 - 3.548	3.250	3.312 ¹	1.50	1.900 EUE	60340*	-
	10.46 - 12.95	3.340 - 3.476	3.187	-	1.50	1.900 EUE	60341*	-
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	1.94	2-3/8 EUE	60345 ²	60345HT ²
	13.5 - 15.1	3.826 - 3.920	3.650	-	1.94	2-3/8 EUE	60344 ²	60344HT ²
	15.1	3.826	3.641	-	1.94	2-3/8 EUE	60346	-
	15.1 - 16.6	3.754 - 3.826	3.594	-	1.50	1.900 EUE	60343	-
	18.8	3.640	3.437	-	1.50	1.900 EUE	60342	-

¹Maximum OD is across retracted drag blocks.

²Drilled for wireline.

* Designed for differential pressures up to 10,000 PSI.

Rubber Trim Upgrade Options (additional cost, inquire with a sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM

NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.



ASI-X Packer Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)						Std	HT
5	11.5 - 15.0	4.408 - 4.560	4.125	4.220 ¹	1.94	2-3/8 EUE	60350	60350HT
	15.0 - 18.0	4.276 - 4.408	4.063	-	1.94	2-3/8 EUE	60349	-
	18.0 - 20.8	4.156 - 4.276	4.000	4.010 ¹	1.94	2-3/8 EUE	60352	60352HT
	21.4	4.126	3.938	-	1.94	2-3/8 EUE	60353	60353HT
5-1/2	13.0 - 14.0	5.012	4.813	-	2.38	2-7/8 EUE	60358	60358HT
	14.0 - 20.0	4.778 - 5.012	4.625	-	2.00	2-3/8 EUE	60355 ²	60355HT ²
				-	2.38	2-7/8 EUE	60356 ²	60356HT ²
	20.0 - 23.0	4.670 - 4.778	4.500	-	2.00	2-3/8 EUE	60357 ²	60357HT ²
				-	2.38	2-7/8 EUE	60359 ²	60359HT ²
	23.0 - 26.0	4.548 - 4.670	4.375	-	1.94	2-3/8 EUE	60354	60354HT
			4.406	-	2.38	2-7/8 EUE	60351	60351HT
5-3/4	15.0 - 16.1	5.201-5.240	5.000	-	2.00	2-3/8 EUE	60357X	60357XHT
				-	2.38	2-7/8 EUE	60358X	60358XHT
	17.6 - 19.4	5.083-5.146	4.875	-	2.00	2-3/8 EUE	60357Y	60357YHT
				-	2.38	2-7/8 EUE	60358Y	60358YHT
	21.5 - 24.0	4.909-5.004	4.720	-	2.00	2-3/8 EUE	60357Z	60357ZHT
				-	2.38	2-7/8 EUE	60358Z	60358ZHT
6	10.0	5.672	5.375	-	2.50	2-7/8 EUE	60361	-
	12.0 - 20.0	5.352 - 5.620	5.188	-	2.38	2-7/8 EUE	60360	60360HT
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	-	2.50	2-7/8 EUE	60367	60367HT
	20.0 - 24.0	5.921 - 6.049	5.750	-	3.00	3-1/2 EUE	60368	60368HT
	24.0 - 32.0	5.675 - 5.921	5.500	-	2.50	2-7/8 EUE	60365	60365HT
				-	3.00	3-1/2 EUE	60369	60369HT
	32.0 - 34.5	5.575 - 5.675	5.312	-	2.50	2-7/8 EUE	60366	60366HT

¹Maximum OD is across retracted drag blocks.

²Drilled for wireline.

* Designed for differential pressures up to 10,000 PSI.

Rubber Trim Upgrade Options (additional cost, inquire with a sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM

NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.



ASI-X Packer Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)						Std	HT
7	17.0 - 20.0	6.456 - 6.538	6.250	6.281 ¹	2.50	2-7/8 EUE	60372-625	-
				-	3.00	3-1/2 EUE	60374-625	-
	17.0 - 26.0	6.276 - 6.538	6.000	6.062 ¹	2.50	2-7/8 EUE	60372 ²	60372HT ²
				6.125 ¹	3.00	3-1/2 EUE	60374	60374HT
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	2-7/8 EUE	60370 ²	60370HT ²
				5.936 ¹	3.00	3-1/2 EUE	60373	60373HT
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	-	2.50	2-7/8 EUE	60375	60375HT
				-	3.00	3-1/2 EUE	60378	60378HT
	33.7 - 39.0	6.625 - 6.765	6.453	-	2.50	2-7/8 EUE	60376	60376HT
				-	3.00	3-1/2 EUE	60377	60377HT
	20.0 - 24.0	8.097 - 8.191	7.750	-	2.50	2-7/8 EUE	60384	-
				7.827 ¹	4.00	4-1/2 EUE	60381	60381HT
8-5/8	20.0 - 28.0	8.017 - 8.191	7.750	-	2.50	2-7/8 EUE	60385	60385HT
				-	3.00	3-1/2 EUE	60387	60387HT
	24.0 - 40.0	7.725 - 8.097	7.500	-	4.00	4-1/2 EUE	60382	60382HT
				-	2.50	2-7/8 EUE	60386	60386HT
	32.0 - 40.0	7.725 - 7.921	7.500	-	4.00	4-1/2 EUE	60382	60382HT
				-	2.50	2-7/8 EUE	60386	60386HT
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	-	4.00	4-1/2 EUE	60396S**	60396HT ^Δ
	43.5 - 53.5	8.535 - 8.755	8.250	-	4.00	4-1/2 EUE	60395S**	60395HT ^Δ
10-3/4	32.75 - 51.0	9.850 - 10.192	9.625	-	4.00	4-1/2 EUE	60301**	-
	51.0 - 65.7	9.560 - 9.850	9.312	-	4.00	4-1/2 EUE	60310**	-
11-3/4	42.0 - 65.0	10.682 - 11.084	10.438	10.502 ¹	4.00	4-1/2 EUE	60311**	-
	66.7 - 80.5	10.406 - 10.656	10.200	-	4.00	4-1/2 EUE	60311Y	-
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	-	4.00	4-1/2 EUE	60313**	-
16	65.0 - 109.0	14.688 - 15.250	14.438	-	5.00	7" LTC	60316***	-
18-5/8	87.5 - 117.5	17.439 - 17.755	17.000	-	5.00	7" LTC	60318	-
20	133.0 - 169.0	18.376 - 18.730	18.000	-	5.00	7" LTC	60320	-

¹Maximum OD is across retracted drag blocks.

²Drilled for wireline.

** Designed for differential pressures up to 6,000 PSI.

*** Designed for differential pressures up to 5,000 PSI.

ΔDesigned for differential pressures up to 8,000 PSI.

Rubber Trim Upgrade Options (additional cost, inquire with a sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM

NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.



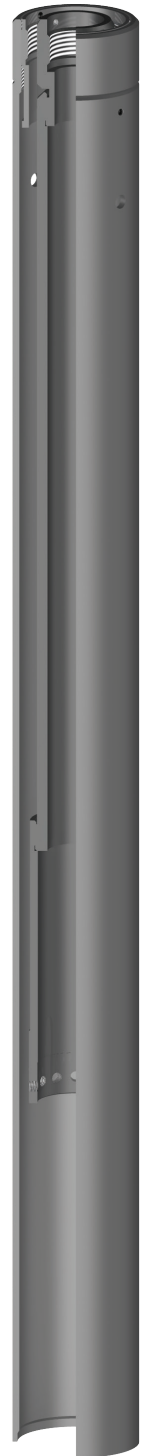
WIRELINE ADAPTER KIT - FOR VSI-X PACKER

The **Wireline Adapter Kit (WLAK)** for VSI-X Packers and VSI-X HT Packers is used with a stinger to set VSI-X Packers and VSI-X HT Packers on electric wireline or with a hydraulic setting assembly on tubing. The WLAK is designed to be used on a Baker E-4 wireline powder charge, hydraulic setting assembly or any setting assembly with the same configuration.

When used with a Profile Stinger, the plug-in-place design allows the running of a profile blanking plug to be run in place

to convert the packer to a temporary Bridge Plug. Use of a profile blanking plug also reduces debris build-up and eliminates the need to run Profile Nipples or Pump-Out Plugs below the packer.

The WLAK automatically disconnects from the packer during packer setting to be easily retrieved and prepared to run again.



Product Specifications

Casing Size (inches)	Description	Part Number
2-7/8	For 2-7/8" VSI-XW Packer	97125
3-1/2	For #5 Hydraulic Setting Tool	97130
	For 3-1/2" VSI-XW Packer (12.95#)	97137
4	For 4" VSI-XW Packer	97140
4-1/2	For 4-1/2" VSI-XW Packer	97145
	For 4-1/2" VSI-XW Packer (13.5-15.1#) Short Version	97144-SHORT
	For 4-1/2" VSI-XW Packer (15.1#)	97144
5-1/2	For 5-1/2" X 2-3/8" VSI-XW Packer*	97155*
	For 5-1/2" X 2-7/8" VSI-XW Packer (23.0 - 26.0#)	97151
	For 5-1/2" X 2-7/8" VSI-XW Packer (23.0 - 26.0#) *	97151-1*
	For 5-1/2", 6-5/8", 7", 7-5/8" X 2-7/8" VSI-XW Packer	97156
	For: 5-1/2", 7", 7-5/8" X 2-7/8" VSI-XW Packer Short Version*	97156-SHORT*
7	For 7" X 3-1/2" VSI-XW Packer	97174
9-5/8	For 8-5/8" & 9-5/8" X 2-7/8" VSI-XW Packer	97196-BAC
	For 9-5/8" X 3-1/2" VSI-XW Packer	97195
	For 8-5/8" & 9-5/8" X 4-1/2" VSI-XW Packer	97196
10-3/4	For 8-5/8" Through 10-3/4" X 4-1/2" VSI-XW Packer	97196

* Compatible with Baker Style 20 Setting Equipment.

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



VSI-X PACKER

The **VSI-X Single String Double-Grip Production Packer** is one of the most versatile packers on the market. This packer is a modification of the ASI-X Packer with the advantage of being able to set on electric line or hydraulically.

An On-Off Tool Stinger with a Wireline Plug installed can be attached to the top of this packer. This packer can then be lubricated in the hole and set under pressure. Once set, casing pressure can be bled off, and the tubing with an On-Off Tool Overshot can be run and latched onto the packer. The Wireline Plug can then be removed.

This packer easily converts to a mechanically set ASI-X Packer – just remove the shear screws and install drag

blocks and drag block springs. The ASI-X Packer sets with 1/4 right-hand rotation and releases with 1/4 right-hand rotation. The ASI-X Packer can be left in tension, compression or neutral.

NOTE: Stinger and setting equipment must be purchased separately.

Special Features

- Wireline or tubing set
- Sequentially released upper slip system
- By-pass valve opens before upper slips are released
- Available in shear release
- Easily converts to ASI-X version - 1/4 turn to set, 1/4 turn to release



Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)					Std	HT
2-7/8	6.4 - 6.5	2.375 - 2.441	2.250	0.63	1.050 EUE	60125-3E*	-
3-1/2	7.5 - 7.7	3.068 - 3.250	2.938	1.25	1.900 NUE	60136*	-
	7.7 - 10.2	2.922 - 3.068	2.781	1.25	1.900 NUE	60135*	-
	12.95	2.750	2.562	1.00	1.315 EUE / 1.660 EUE	60137-3E*	-
4	9.5 - 11.0	3.476 - 3.548	3.250	1.50	1.900 EUE	60140*	-
	10.46 - 12.95	3.340 - 3.476	3.187	1.50	1.900 EUE	60141*	-
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	60145	60145HT
	13.5 - 15.1	3.826 - 3.920	3.650	1.94	2-3/8 EUE	60144	60144HT
	15.1	3.826	3.641	1.94	2-3/8 EUE	60146	60146HT
	15.1 - 16.6	3.754 - 3.826	3.594	1.50	1.900 EUE	60143	60143HT
	18.8	3.640	3.437	1.50	1.900 EUE	60142	60142HT
5	11.5 - 15.0	4.408 - 4.560	4.125	1.94	2-3/8 EUE	60150	60150HT
	18.0 - 20.8	4.156 - 4.276	4.000	1.94	2-3/8 EUE	60152	60152HT
	21.4	4.126	3.938	1.94	2-3/8 EUE	60153	60153HT

* Designed for differential pressures up to 10,000 PSI.

Rubber Trim Upgrade Options (additional cost, inquire with a sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM

NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.



VSI-X Packer Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)					Std	HT
5-1/2	13.0 - 14.0	5.012 - 5.044	4.813	2.38	2-7/8 EUE	60158	60158HT
	14.0 - 20.0	4.778 - 5.012	4.625	2.00	2-3/8 EUE	60155	60155HT
				2.38	2-7/8 EUE	60156	60156HT
	20.0 - 23.0	4.670 - 4.778	4.500	2.00	2-3/8 EUE	60157	60157HT
				2.38	2-7/8 EUE	60159	60159HT
	23.0 - 26.0	4.548 - 4.670	4.390	1.94	2-3/8 EUE	60154	60154HT
			4.406	2.38	2-7/8 EUE	60151	60151HT
6	12.0 - 20.0	5.352 - 5.620	5.188	2.38	2-7/8 EUE	60160	60160HT
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	2.50	2-7/8 EUE	60167	60167HT
	20.0 - 24.0	5.921 - 6.049	5.750	3.00	3-1/2 EUE	60168	60168HT
	24.0 - 32.0	5.675 - 5.921	5.500	2.50	2-7/8 EUE	60165	60165HT
				3.00	3-1/2 EUE	60169	60169HT
7	17.0 - 26.0	6.276 - 6.538	6.000	2.50	2-7/8 EUE	60172	60172HT
				3.00	3-1/2 EUE	60174	60174HT
	26.0 - 32.0	6.094 - 6.276	5.875	2.50	2-7/8 EUE	60170	60170HT
				3.00	3-1/2 EUE	60173	60173HT
	29.0 - 35.0	6.004 - 6.184	5.812	2.50	2-7/8 EUE	60171	60171HT
				3.00	3-1/2 EUE	60175	60175HT
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	2.50	2-7/8 EUE	60175	60175HT
				3.00	3-1/2 EUE	60178	60178HT
	33.7 - 39.0	6.625 - 6.765	6.453	2.50	2-7/8 EUE	60176	60176HT
				3.00	3-1/2 EUE	60177	60177HT
8-5/8	20.0 - 28.0	8.017 - 8.191	7.750	4.00	4-1/2 EUE	60181	60181HT
	24.0 - 40.0	7.725 - 8.097	7.500	2.50	2-7/8 EUE	60185	60185HT
				3.00	3-1/2 EUE	60187	60187HT
	32.0 - 40.0	7.725 - 7.921	7.500	4.00	4-1/2 EUE	60182	60182HT
9-5/8	44.0 - 49.0	7.511 - 7.625	7.312	2.50	2-7/8 EUE	60186	60186HT
	32.3 - 43.5	8.755 - 9.001	8.500	4.00	4-1/2 EUE	60196S**	60196HT [△]
	43.5 - 53.5	8.535 - 8.755	8.250	4.00	4-1/2 EUE	60195S**	60195HT [△]
	51.0 - 65.7	9.560 - 9.850	9.312	4.00	4-1/2 EUE	60110**	-
10-3/4	32.75 - 51.0	9.850 - 10.192	9.625	4.00	4-1/2 EUE	60101**	-
11-3/4	42.0 - 65.0	10.682 - 11.084	10.438	4.00	4-1/2 EUE	60111**	-
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	4.00	4-1/2 EUE	60113**	-

** Designed for differential pressures up to 6,000 PSI.

[△] Designed for differential pressures up to 8,000 PSI

Rubber Trim Upgrade Options (additional cost, inquire with a sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM

NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.

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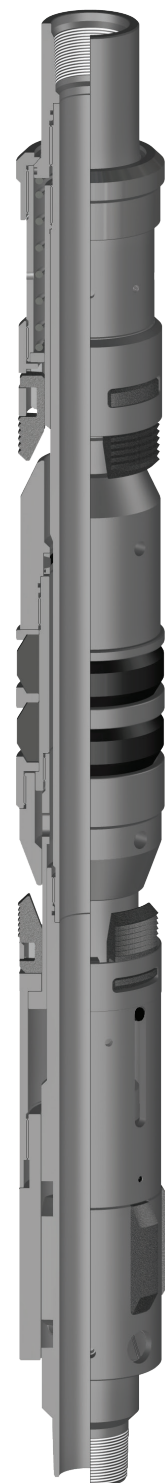
JETTSET PACKER

The **Jettset Packer** is a versatile mechanically set retrievable packer and may be used in any production application. This packer is suited for treating, testing, or injection applications, in pumping or flowing wells, either deep or shallow. This packer can be left in tension or compression, depending on well conditions and the required application. An internal by-pass reduces swabbing when running and retrieving. The by-pass closes when the packer is set and opens prior to releasing the upper slips when retrieving to allow pressure equalization. The J-Slot design allows easy setting and releasing; 1/4 turn right-hand set, 1/4 turn right-hand release.

This packer is rated to 7,000 PSI and can be configured with different elastomers and metalics to suit downhole conditions.

Special Features

- By-pass below upper slips to wash debris when valve is opened
- By-pass is opened before upper slips are released
- Can be set with tension for shallow well applications
- Can be left in tension, compression or neutral
- 1/4 turn right-hand set, 1/4 turn right-hand release standard
- Additional J-Slot arrangements available
- Short, compact design



Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	1.94	2-3/8 EUE	12045
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	-	2.00	2-3/8 EUE	12055
	20.0 - 23.0	4.670 - 4.778	4.500	-	2.00	2-3/8 EUE	12057
7	17.0 - 26.0	6.276 - 6.538	6.000	6.062 ¹	2.50	2-7/8 EUE	12072

¹ Maximum OD is across retracted drag blocks.

NOTE: All pricing includes standard Nitrile trim. Carbide, other sizes and connections are available upon request.



AS-II PACKER

The **AS-II Packer** is a large-opening, compression-set packer with mechanical slip hold-downs. This packer withstands high pressure from above or below by using a 3-element packing system, and upper and lower mechanical slips. A J-slot and a drag block mechanism are incorporated for easy setting. This packer has a built-in unloader which circulates across the mechanical hold-down slips to improve retrievability. The unloader has a pressure compensating piston to keep it closed when pressure is greater below the set packer.

The AS-II Packer is available in the standard J-slot arrangement - right-hand auto set with straight pick-up release. Other J-slot arrangements are available: right-hand manual set, left-hand auto set, and left-hand manual set. All J-slot arrangements are straight pick-up release.

Special Features

- Large internal by-pass
- Mechanical slips vs. hydraulic buttons
- Differential pressure holds valve closed
- Additional J-slot arrangements available

Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Min ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
2-7/8	6.4 - 6.5	2.375 - 2.441	2.250	2.263 ¹	0.62	1.050 EUE	61125
3-1/2	7.7 - 10.2	2.922 - 3.068	2.781	-	1.25	1.900 NUE	61135
			2.938	-	1.25	1.900 NUE	61136
4	9.5 - 11.0	3.476 - 3.548	3.250	3.312 ¹	1.50	1.900 EUE	61140
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	1.94	2-3/8 EUE	61145
	15.1	3.826	3.656	-	1.94	2-3/8 EUE	61144
5	11.5 - 18.0	4.276 - 4.560	4.125	4.220 ¹	1.94	2-3/8 EUE	61150
	18.0 - 21.4	4.126 - 4.276	4.000	-	1.94	2-3/8 EUE	61152
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	-	2.00	2-3/8 EUE	61155
				-	2.38	2-7/8 EUE	61156
	20.0 - 23.0	4.670 - 4.778	4.500	-	2.00	2-3/8 EUE	61157
				-	2.38	2-7/8 EUE	61159
5-3/4	17.6 - 19.4	4.958 - 5.021	4.875	-	2.38	2-7/8 EUE	61158Y
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	-	2.50	2-7/8 EUE	61167
	24.0 - 32.0	5.675 - 5.921	5.500	-	2.50	2-7/8 EUE	61165
7	17.0 - 26.0	6.276 - 6.538	6.000	6.062 ¹	2.50	2-7/8 EUE	61172
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	2-7/8 EUE	61170
				5.936 ¹	3.00	3-1/2 EUE	61173
	29.0 - 35.0	6.004 - 6.184	5.812	-	2.50	2-7/8 EUE	61171
7-5/8	33.7 - 39.0	6.625 - 6.765	6.453	-	3.00	3-1/2 EUE	61177
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	-	3.00	3-1/2 EUE	61198
				-	4.00	4-1/2 EUE	61196
	43.5 - 53.5	8.535 - 8.755	8.250	-	3.00	3-1/2 EUE	61197
				-	4.00	4-1/2 EUE	61195
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	-	4.00	4-1/2 EUE	61113

¹Maximum OD is across retracted drag blocks.

OPTIONS: RS (Right-Hand Auto Set, Straight Pick-Up Release), RM (Right-Hand Manual Set, Straight Pick-Up Release)
LS (Left-Hand Auto Set, Straight Pick-Up Release), LM (Left-Hand Manual Set, Straight Pick-Up Release)

NOTE: All pricing includes standard Nitrile trim. Carbide, other sizes and connections are available upon request.





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AS-III PACKER

The **AS-III Packer** is a single-grip packer with no upper hold-down for use where no differential pressure from below is present. From the packing elements down, this packer operates identically to the AS-II Packer. This packer also features a large by-pass area to prevent swabbing when running or retrieving. This packer is ideal for isolating casing

holes or perforations when used as the lower packer in conjunction with the Snapset Packer as the upper packer.

Special Features

- Large internal by-pass
- 1/4 turn set / straight pick-up release
- Additional J-slot arrangements available

Product Specifications

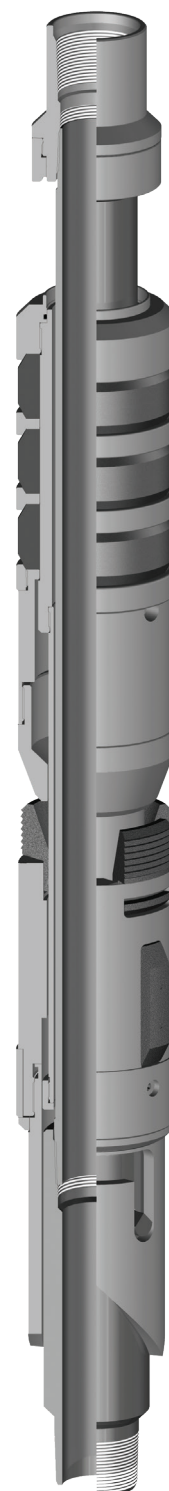
Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
3-1/2	7.7 - 10.2	2.922 - 3.068	2.781	-	1.25	1.900 NUE	63135RS
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	1.94	2-3/8 EUE	63145RS
	13.5 - 15.1	3.826 - 3.920	3.650	-	1.94	2-3/8 EUE	63144RS
5	11.5 - 15.0	4.408 - 4.560	4.125	4.220 ¹	1.94	2-3/8 EUE	63150RS
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	-	1.94	2-3/8 EUE	63155RS
				-	2.38	2-7/8 EUE	63156RS
	20.0 - 23.0	4.670 - 4.778	4.500	-	2.00	2-3/8 EUE	63157RS
					2.38	2-7/8 EUE	63159RS
5-3/4	21.5 - 24.0	4.784 - 4.879	4.720	-	2.38	2-7/8 EUE	63158Z
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	-	2.50	2-7/8 EUE	63167RS
	24.0 - 32.0	5.675 - 5.921	5.500	-	2.50	2-7/8 EUE	63165RS
7	17.0 - 26.0	6.276 - 6.538	6.000	6.062 ¹	2.50	2-7/8 EUE	63172RS
			6.000	6.125 ¹	3.00	3-1/2 EUE	63174RS
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	2-7/8 EUE	63170RS
				5.936 ¹	3.00	3-1/2 EUE	63173RS
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	-	2.50	2-7/8 EUE	63175RS
8-5/8	28.0 - 40.0	7.725 - 8.017	7.500	-	3.00	3-1/2 EUE	63182RS
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	-	3.00	3-1/2 EUE	63196RS
	43.5 - 53.5	8.535 - 8.755	8.250	-	2.50	2-7/8 EUE	63198RS
				-	4.00	4-1/2 EUE	63195

¹Maximum OD is across retracted drag blocks.

OPTIONS: RS (Right-Hand Auto Set, Straight Pick-Up Release), RM (Right-Hand Manual Set, Straight Pick-Up Release),

LS (Left-Hand Auto Set, Straight Pick-Up Release), LM (Left-Hand Manual Set, Straight Pick-Up Release)

NOTE: All pricing includes standard Nitrile trim. Carbide, other sizes, connections, and J-slot configurations are available upon request.





AS-5 PACKER

The **AS-5 Packer** is a compression set tool with a J-slot to control pack-off. It is run above other packers - such as the AS-III Packer - to selectively treat, produce or inject in multiple zone completions. It is also used to isolate casing hole perforations. This packer features a large by-pass area to prevent swabbing when running and retrieving. When releasing, the valve allows debris to be washed from the upper slips.

Special Features

- Large internal by-pass
- Mechanical slips vs. hydraulic buttons
- Additional J-slot arrangements available

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	60845
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	2.00	2-3/8 EUE	60855
				2.38	2-7/8 EUE	60856
	20.0 - 23.0	4.670 - 4.778	4.500	2.00	2-3/8 EUE	60857
				2.38	2-7/8 EUE	60859
7	17.0 - 26.0	6.276 - 6.538	6.000	2.50	2-7/8 EUE	60872
				3.00	3-1/2 EUE	60874
	26.0 - 32.0	6.094 - 6.276	5.875	2.50	2-7/8 EUE	60870

NOTE: All pricing includes standard Nitrile trim. Carbide, other sizes, connections, and J-slot configurations are available upon request.





SNAPSET I PACKER

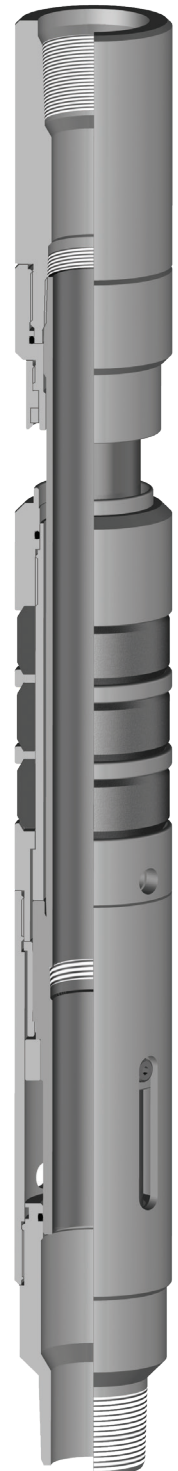
The **Snapset I Packer** is a compression set packer requiring only straight set down weight to pack-off. This packer is run above other packers (such as the ASI-X Packer, AS-II Packer or AS-III Packer) for selective production to isolate casing holes and perforations.

This packer has no upper or lower slips and should be used only where intermediate differential pressures from below are expected. This packer has an internal

latch to prevent the packer from setting prematurely when running down the hole. When releasing, the latch re-engages to allow movement downhole and re-setting.

Special Features

- Large internal by-pass
- Set down to pack off, pick up to release
- Compact design



Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
3-1/2	7.7 - 10.2	2.922 - 3.068	2.781	1.25	1.900 NUE	63535
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	63545
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	2.00	2-3/8 EUE	63555
				2.38	2-7/8 EUE	63556
	20.0 - 23.0	4.670 - 4.778	4.500	2.00	2-3/8 EUE	63557
				2.38	2-7/8 EUE	63558
7	17.0 - 26.0	6.276 - 6.538	6.000	2.50	2-7/8 EUE	63572
	26.0 - 32.0	6.094 - 6.276	5.875	2.50	2-7/8 EUE	63570
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	2.50	2-7/8 EUE	63575
9-5/8	43.5 - 53.5	8.535 - 8.755	8.250	3.00	3-1/2 EUE	63595-BAE

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



SNAPSET II PACKER

The **Snapset II Packer** is a compression set tool requiring only straight set down weight to pack-off. This packer is run above another compression set packer (such as the AS-III Packer) to selectively treat, produce or inject in multiple zone completions. This packer is also used to isolate casing hole perforations.

This packer features a large by-pass area to prevent swabbing when running and retrieving. Once the packer is set, pressure from above or below acts down on the valve to maintain the seal and prevent upward movement of the tubing.

When releasing, the valve allows debris to be washed from the upper slips. This packer is equipped with an internal latch to prevent setting prematurely when running in the hole. When releasing, the latch re-engages to allow movement downhole.

Special Features

- Large internal by-pass
- Set down to pack off, pick up to release
- Mechanical slips vs. hydraulic buttons
- Differential pressure holds valve closed

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
3-1/2	7.7 - 10.2	2.922 - 3.068	2.781	1.25	1.900 NUE	63635
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	63645
	15.1	3.826	3.656	1.94	2-3/8 EUE	63644
	18.8	3.640	3.437	1.50	1.900 EUE	63646
5	11.5 - 15.0	4.408 - 4.560	4.125	1.94	2-3/8 EUE	63650
	18.0 - 21.0	4.154 - 4.276	4.000	1.94	2-3/8 EUE	63652
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	2.00	2-3/8 EUE	63655
				2.38	2-7/8 EUE	63656
	20.0 - 23.0	4.670 - 4.778	4.500	2.00	2-3/8 EUE	63657
				2.38	2-7/8 EUE	63658
6-5/8	24.0 - 32.0	5.675 - 5.921	5.500	2.50	2-7/8 EUE	63665
7	17.0 - 26.0	6.276 - 6.538	6.000	2.50	2-7/8 EUE	63672
				3.00	3-1/2 EUE	63674
	26.0 - 32.0	6.094 - 6.276	5.875	2.50	2-7/8 EUE	63670
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	2.50	2-7/8 EUE	63675
	33.7 - 39.0	6.625 - 6.765	6.453	2.50	2-7/8 EUE	63676
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	3.00	3-1/2 EUE	63696

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





CT THERMAL PACKER

The **CT Thermal Packer** is used in steam injection/production applications. This packer maintains the design features of our reliable ASI-X Packer and includes a packing element that can be packed-off with tension to allow the packer to be set at shallow depth. This packer is capable of setting in shallow wells, and will hold pressure from above and below. Its design also features an adjustable safety shear release. This packer needs 1/4 right-hand rotation to set it, and 1/4 right-hand rotation to release it (other J-slot designs are available). The thermal elements are available in 450° F to 625° F versions.

An Expansion Joint can be run above this packer to allow for tubing expansion and contraction.

Special Features

- 1/4 right-hand set, 1/4 right-hand release (standard)
- Variable safety shear release
- Capable of setting in shallow depths
- Holds pressure from above and below
- Thermal elements 450° F to 625° F
- Additional J-slot arrangements available

Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Min ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
5-1/2	13.0 - 17.0	4.892 - 5.044	4.750	-	2.00	2-3/8 EUE	74055
	20.0 - 23.0	4.670 - 4.778	4.500	-	2.00	2-3/8 EUE	74056
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	-	2.50	2-7/8 EUE	74066
	24.0 - 32.0	5.675 - 5.921	5.500	-	2.50	2-7/8 EUE	74065
7	17.0 - 26.0	6.276 - 6.538	6.000	6.062 ¹	2.50	2-7/8 EUE	74072
					3.00	3-1/2 EUE	74074
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	2-7/8 EUE	74070
				-	3.00	3-1/2 EUE	74073

¹ Maximum OD is across retracted drag blocks.

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





IE THERMAL PACKER

The **IE Thermal Packer** is a CT Thermal Packer with an Internal Expansion (IE) Joint. This packer is a double-grip retrievable packer designed for steam injection/production. This packer's design is based on our highly successful ASI-X Packer.

This packer features a double-grip hold down system capable of holding pressure from above and below. This feature allows the packer to maintain pack-off and prevent movement of the packing element without having the packer in tension or compression. The double-grip feature allows the packer to be ideally suited for huff and puff operations as well as continuous steam injection.

This packer is equipped with high temperature EPDM elements with wire mesh backups to prevent extrusion for service up to 450° F (an element package for 650° F is also available).

Special Features

- J-Slot controlled expansion joint
- Based on proven ASI-X Packer design
- Safety shear release
- Expansion joint up to 20 Ft available

Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
5	11.5 - 15.0	4.408 - 4.560	4.125	4220 ¹	1.50	2-3/8 EUE	74150
	18.0 - 20.8	4.156 - 4.276	4.000	-	1.50	2-3/8 EUE	74152
7	17.0 - 26.0	6.276 - 6.538	6.000	6.125 ¹	3.00	3-1/2 EUE	74170
	26.0 - 32.0	6.094 - 6.276	5.875	-	3.00	3-1/2 EUE	74171
9-5/8	43.5 - 53.5	8.535 - 8.755	8.250	-	4.00	4-1/2 EUE	74195

¹Maximum OD is across retracted drag blocks.

OPTIONS: Available with carbide and other expansion joint lengths (10 FT, 15 FT, and 20 FT).

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





D-H TENSION PACKER

The **D-H Tension Packer** is for use in water flood, injection or producing wells. This tension packer has a built-in safety system to eliminate problems should conventional retrieval methods fail. Right-hand rotation releases the first safety joint allowing the slips to pull off the cone and release the packer. Should the packer fail to release, a second safety joint can be broken to release the packer. This safety feature allows for circulation down the tubing to remove debris.

In addition, the D-H Tension Packer is available for open-hole applications and

incorporates dual elongated packing elements and deep wickered slips for better bite into the formation.

Special Features

- Full opening
- Built-in safety joint
- Stainless steel drag springs
- Available to set in open hole
- Long packing element to give maximum sealing area

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
2-7/8	6.4 - 6.5	2.375 - 2.441	2.250	0.75	1.900 EUE	40525
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	40545
5	11.5 - 15.0	4.408 - 4.560	4.125	1.94	2-3/8 EUE	40550
	15.0 - 20.8	4.156 - 4.408	4.000	1.94	2-3/8 EUE	40551
5-1/2	13.0 - 20.0	4.778 - 5.044	4.625	1.94	2-3/8 EUE	40555
				2.44	2-7/8 EUE	40556
	20.0 - 23.0	4.670 - 4.778	4.500	1.94	2-3/8 EUE	40557
				2.44	2-7/8 EUE	40558
6	15.0 - 20.0	5.352 - 5.524	5.188	2.44	2-7/8 EUE	40560
6-5/8	24.0 - 32.0	5.675 - 5.921	5.500	2.44	2-7/8 EUE	40565
7	17.0 - 29.0	6.184 - 6.538	6.000	2.44	2-7/8 EUE	40570
				3.00	3-1/2 EUE	40573
7-5/8	20.0 - 33.7	6.765 - 7.125	6.625	2.44	2-7/8 EUE	40575
				3.00	3-1/2 EUE	40576
8-5/8	24.0 - 40.0	7.725 - 8.097	7.500	2.50	2-7/8 EUE	40585
				3.00	3-1/2 EUE	40587
9-5/8	29.3 - 43.5	8.755 - 9.063	8.500	2.50	2-7/8 EUE	40595
				3.00	3-1/2 EUE	40597
10-3/4	32.75 - 55.5	9.760 - 10.192	9.500	3.00	3-1/2 EUE	40510
13-3/8	48.0 - 72.0	12.347 - 12.715	12.000	3.00	3-1/2 EUE	40513

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





D-H Tension Open Hole Packer Product Specifications

Casing Size (inches)	Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
4-1/2	3.920 - 4.090	3.750	1.94	2-3/8 EUE	40645
5	4.276 - 4.560	4.125	1.94	2-3/8 EUE	40650
5-1/2	4.670 - 4.778	4.500	1.94	2-3/8 EUE	40657
			2.44	2-7/8 EUE	40658
	4.778 - 5.044	4.625	1.94	2-3/8 EUE	40655
			2.50	2-7/8 EUE	40656
6	5.000 - 6.220	4.875	1.94	2-3/8 EUE	40660
6-5/8	5.675 - 5.921	5.500	2.50	2-7/8 EUE	40665
7	6.094 - 6.135	5.750	2.00	2-3/8 EUE	40674
			2.50	2-7/8 EUE	40671
	6.184 - 6.538	6.000	2.00	2-3/8 EUE	40672
			2.50	2-7/8 EUE	40670
			3.00	3-1/2 EUE	40673
7-5/8	6.765 - 7.125	6.625	2.44	2-7/8 EUE	40675
			3.00	3-1/2 EUE	40676
8-5/8	7.725 - 8.097	7.500	2.50	2-7/8 EUE	40685
			3.00	3-1/2 EUE	40687
9-5/8	8.755 - 9.063	8.500	2.50	2-7/8 EUE	40695
			3.00	3-1/2 EUE	40697
10-3/4	9.760 - 10.050	9.500	3.00	3-1/2 EUE	40610
13-3/8	12.347 - 12.715	12.000	3.00	3-1/2 EUE	40613

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



TENSION & SHEAR TENSION PACKER

The **Tension Packer** and **Shear Tension Packer** are economical, compact tools for injection, pumping, medium range treating and production applications. These packers are set by 1/4 right-hand rotation of the tubing and then pull tension. To release these packers, slack off the tubing and the packer will automatically re-jay into the release position. These packers have a right-hand rotation release allowing retrieval of the tubing string.

The Tension Packer can be run in tension or compression. When the Tension Packer is run in compression, the right-hand release option cannot be utilized.

The Shear Tension Packer features an adjustable straight pull safety shear release. This packer is not designed to be run in compression.

Special Features

- Long element for increased pack-off
- Rotational safety tubing release
- Safety shear release (Shear Tension Packer Only)
- Deep wickered slips



Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)					DL Tension	Shear Tension
2-7/8	6.4 - 6.5	2.375 - 2.441	2.250	0.75	3/4" LINE PIPE / 1.315 NUE	40125	41225
				1.13	1.315 EUE	40127	41227
3-1/2	7.7 - 10.2	2.922 - 3.068	2.781	1.50	1.900 EUE	40135	41235
	12.8	2.764	2.437	1.25	1.900 EUE / 1.900 NUE	40136	41236
4	9.5 - 11.0	3.476 - 3.548	3.250	1.50	2-3/8 EUE	40140	41240
				1.88	2-3/8 EUE	40141	41241
	14.8	3.240	3.090	1.50	1.900 EUE	40139	41239
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	40145	41245
	12.6	3.958	3.187	1.50	2-3/8 EUE	40142	41242
	15.1	3.826	3.656	1.94	2-3/8 EUE	40143	41243
	15.1 - 16.6	3.754 - 3.826	3.500	1.94	2-3/8 EUE	40144	41244
5	11.5 - 18.0	4.276 - 4.560	4.125	1.94	2-3/8 EUE	40150	41250

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Tension & Shear Tension Packer Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)					DL Tension	Shear Tension
5-1/2	13.0 - 20.0	4.778 - 5.044	4.625	1.94	2-3/8 EUE	40155	41255
				2.44	2-7/8 EUE	40156	41256
	20.0 - 23.0	4.670 - 4.778	4.500	1.94	2-3/8 EUE	40157	41257
				2.44	2-7/8 EUE	40158	41258
6	15.0 - 20.0	5.352 - 5.524	5.125	2.44	2-7/8 EUE	40161	41261
	20.0 - 23.0	5.240 - 5.352	5.000	2.44	2-7/8 EUE	40160	41260
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	2.44	2-7/8 EUE	40166	41266
	20.0 - 28.0	5.791 - 6.049	5.625	2.44	2-7/8 EUE	40164	41264
	24.0 - 32.0	5.675 - 5.921	5.500	2.44	2-7/8 EUE	40165	41265
7	17.0 - 29.0	6.184 - 6.538	6.000	2.44	2-7/8 EUE	40170	41270
				3.00	3-1/2 EUE	40173	41273
7-5/8	20.0 - 33.7	6.765 - 7.125	6.625	2.44	2-7/8 EUE	40175	41275
				3.00	3-1/2 EUE	40176	41276
8-5/8	20.0 - 28.0	8.017 - 8.191	7.750	2.50	2-7/8 EUE	40186	41286
				3.00	3-1/2 EUE	40188	41288
	24.0 - 40.0	7.725 - 8.097	7.500	2.50	2-7/8 EUE	40185	41285
				3.00	3-1/2 EUE	40187	41287
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	2.50	2-7/8 EUE	40195	41299-XBAC
				3.00	3-1/2 EUE	40197	41299-XBAE
				4.00	4-1/2 LTC	40199	41299
	43.5 - 53.5	8.535 - 8.755	8.250	2.50	2-7/8 EUE	40194	41298-XBAC
				3.00	3-1/2 EUE	40196	41298-XBAE
				4.00	4-1/2 LTC	40198	41298
10-3/4	32.75 - 55.5	9.760 - 10.192	9.500	4.00	4-1/2 EUE	40110	41210
11-3/4	38.0 - 66.7	10.656 - 11.150	10.375	2.50	2-7/8 EUE	40111	41211
12-3/4	43.0 - 65.42	11.750 - 12.130	11.590	4.00	4-1/2 EUE	-	41212
13-3/8	48.0 - 72.0	12.347 - 12.715	12.000	4.00	4-1/2 EUE	40113	41213

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



CASING PACKER

The **Casing Packer** is a large bore, single grip packer used to isolate damaged casing and for production or injection. This packer can be run in tension or compression and can be used as a liner hanger when equipped with a right-hand release sub. Coarse, deep wickered slips allow this packer to set in open-hole or scaly casing. For open-hole set, this packer can be equipped with two elongated packing elements to assure a positive seal.

Special Features

- Set/run in tension or compression
- Applicable for set in open hole
- Can be used as a liner hanger
- Full opening
- Coarse, deep wickered slip teeth
- Available with right-hand or left-hand set, manual or automatic release

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Box Down	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	2.50	2-7/8 EUE	44145
	15.1	3.826	3.656	2.50	2-7/8 EUE	44144
5	11.5 - 20.3	4.184 - 4.560	4.000	2.50	2-7/8 EUE	44150
	18.0 - 21.4	4.126 - 4.276	3.875	2.50	2-7/8 EUE	44151
5-1/2	13.0 - 17.0	4.892 - 5.044	4.650	3.50	4" NUE	44156
	13.0 - 20.0	4.778 - 5.044	4.625	3.00	3-1/2 EUE	44155
5-3/4	14.0 - 17.0	5.190 - 5.290	4.875	3.50	4-1/2 EUE	44157
6	18.0 - 23.0	5.240 - 5.424	5.000	3.50	4" NUE	44160
6-5/8	20.0 - 28.0	5.791 - 6.049	5.625	4.00	4-1/2 LTC	44165
7	17.0 - 26.0	6.276 - 6.538	6.000	4.75	5-1/2 LTC	44172
	17.0 - 38.0	5.920 - 6.538	5.750	4.00	4-1/2 LTC	44170
	20.0 - 29.0	6.184 - 6.456	5.969	4.50	5" LTC	44171
7-5/8	20.0 - 33.7	6.765 - 7.125	6.500	4.00	4-1/2 LTC	44175
				5.00	5-1/2 LTC	44176
8-5/8	24.0 - 36.0	7.825 - 8.097	7.656	6.00	6-5/8 LTC	44186
				6.50	7" LTC	44187
				4.15	4-1/2 LTC	44184
	24.0 - 40.0	7.725 - 8.097	7.500	5.00	5-1/2 LTC	44185
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	6.50	7" LTC	44195
	43.5 - 53.5	8.535 - 8.755	8.250	6.50	7" LTC	44196
10-3/4	32.75 - 55.5	9.760 - 10.192	9.500	6.50	7" LTC	44110
11-3/4	42.0 - 65.0	10.682 - 11.084	10.500	8.00	8-5/8 LTC	44111
13-3/8	48.0 - 77.0	12.275 - 12.715	12.000	8.75	9-5/8 LTC	44113
18-5/8	87.5 - 117.5	17.439 - 17.755	17.000	12.50	13-3/8 STC	44118

OPTIONS: RS (Right-Hand Auto Set), RM (Right-Hand Manual Set), LS (Left-Hand Auto Set), LM (Left-Hand Manual Set)

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





GV CUP PACKER

The **Type GV Cup Packer** is an economical means of isolating casing leaks and depleted zones and is also a production or injection packer for low pressure applications. Depending on application, this packer can be run with cups opposed or in the same direction. This packer is also available with packing element back-up rings for higher pressure

applications and comes in a full range of tubing and casing sizes in two-cup or four-cup models.

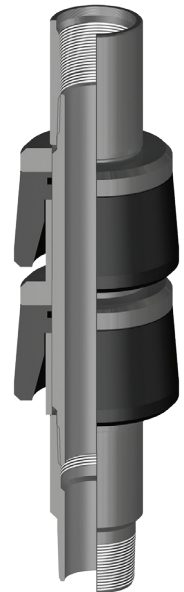
Special Features

- Economic design
- Cup direction option
- Tubing size options

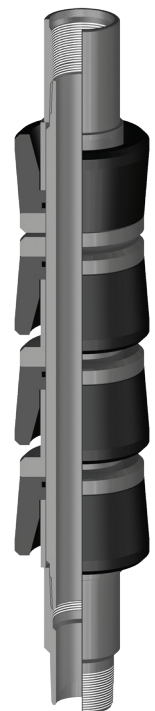
Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
3-1/2	9.2 - 10.3	2.922 - 2.992	2.810	1.50	1.900 NUE	43935
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	2.00	2-3/8 EUE	43945
				2.50	2-7/8 EUE	43946
	15.1	3.826	3.650	2.00	2-3/8 EUE	43947
5	13.0 - 15.0	4.408 - 4.494	4.250	2.00	2-3/8 EUE	43951
	18.0	4.276	4.130	2.00	2-3/8 EUE	43950
5-1/2	13.0 - 20.0	4.778 - 5.044	4.625	3.00	3-1/2 EUE	43953
	14.0 - 20.0	4.778 - 5.012	4.625	2.50	2-7/8 EUE	43956
	17.0 - 20.0	4.778 - 4.892	4.625	2.00	2-3/8 EUE	43955
	20.0 - 26.0	4.548 - 4.778	4.375	2.50	2-7/8 EUE	43957
6-5/8	20.0	6.049	5.750	3.00	3-1/2 EUE	43965
	20.0 - 24.0	5.921 - 6.049	5.750	4.00	4-1/2 EUE	43966
7	17.0 - 29.0	6.184 - 6.538	6.000	2.50	2-7/8 EUE	43971
				3.00	3-1/2 EUE	43973
	20.0 - 29.0	6.184 - 6.456	6.000	2.00	2-3/8 EUE	43970
				4.00	4-1/2 LTC	43974
7-5/8	24.0 - 26.4	6.969 - 7.025	6.750	2.50	2-7/8 EUE	43976
	29.7 - 33.7	6.765 - 6.875	6.375	2.50	2-7/8 EUE	43975
8-5/8	28.0 - 36.0	7.825 - 8.017	7.375	2.50	2-7/8 EUE	43985
9-5/8	40.0 - 47.0	8.681 - 8.835	8.450	3.00	3-1/2 EUE	43995
10-3/4	40.5 - 55.5	9.760 - 10.050	9.710	4.00	4-1/2 LTC	4391075

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections are available upon request.



2 Cup Version



4 Cup Version



GAS VENT PUMPING PACKER

The **Gas Vent Pumping Packer** offers an inexpensive option for isolating casing leaks or depleted perforations in pumping wells. This tool prevents gas lock by allowing gas to vent to the surface past damaged zones. The interval between top and bottom cups can be any length. This packer is available with double or multiple cups.

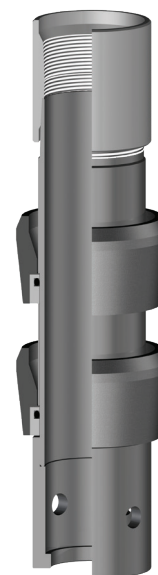
Special Features

- Inexpensive alternative to squeeze job
- Variable intervals easily adjusted
- Optional double cups to multiple cups

Product Specifications

Casing		Liner Size (inches)	Tubing Size (inches)	Tool OD (inches)	Tool ID (inches)	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 13.5	3" Line Pipe	2-3/8	3.813	2.69	42145
5-1/2	13.0 - 20.0	3" Line Pipe	2-3/8	4.000	2.75	42155
		3-1/2" Line Pipe	2-7/8	4.630	3.13	42156
7	20.0 - 29.0	4-1/2" LTC	2-3/8	5.000	2.75	42171
			2-7/8	5.000	3.13	42170

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Standard



4 Cup Version



RETRIEVABLE SEAL BORE PACKER - SINGLE BORE

The **Retrievable Seal Bore (RSB) Packer** delivers high performance with simplicity of design and desirable economics. This packer is rated for 7,000 PSI and can be equipped to withstand severe corrosion and high temperatures. The RSB Packer is set on wireline (with minor changes) or on tubing with a hydraulic setting tool and is retrieved using a retrieving tool.

NOTE: A retrieving tool is required to retrieve these packers and must be purchased separately.

Special Features

- Simple operation
- Economical
- Easy to retrieve
- Many applications
- Easily modified for a wide range of conditions and temperatures

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Packer Bore (inches)	Min ID Thru Seals (inches)	Part Number
Size (inches)	Weight (lbs/ft)					
5	15.0 - 18.0	4.276 - 4.408	4.000	2.688	1.940	26550
5-1/2	13.0 - 20.0	4.778 - 5.044	4.625	2.688	1.940	26055
				3.000	2.380	26555
6-5/8	20.0 - 32.0	5.675 - 6.049	5.468	3.250	2.410	26565
7	17.0 - 20.0	6.456 - 6.538	6.125	3.000	2.380	26071
				4.000	3.000	26571
				3.000	2.380	26070
	23.0 - 29.0	6.184 - 6.366	5.938	3.250	2.420	26073
				4.000	3.000	26574
				3.000	2.380	26072
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	4.000	3.00	26575
				3.000	2.380	26078
	33.7 - 39.0	6.625 - 6.765	6.375	4.000	3.000	26578
				4.000	3.000	26578
8-5/8	24.0 - 40.0	7.725 - 8.097	7.500	4.000	3.000	26085
				4.750	4.000	26585
	40.0 - 49.0	7.511 - 7.725	7.312	4.000	3.000	26086
				4.750	4.000	26586
9-5/8	40.0 - 47.0	8.681 - 8.835	8.500	6.000	4.750	26596-2
	43.5 - 53.5	8.535 - 8.755	8.250	4.750	3.500	26094-2
				6.000	4.750	26595-2
13-3/8	54.5 - 68.0	12.415 - 12.615	12.250	9.000	8.000	26513

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





RETRIEVABLE SEAL BORE PACKER - DUAL BORE

The **Retrievable Seal Bore (RSB) Dual Bore Packer** delivers high performance with simplicity of design and desirable economics. This packer allows for a larger ID through the packer by sealing in an upper sealbore. This packer is rated for 7,000 PSI and can be equipped to withstand severe corrosion and high temperatures.

Special Features

- Simple operation
- Economical
- Easy to retrieve
- Easily modified for a wide range of conditions and temperatures

NOTE: A retrieving tool is required to retrieve these packers and must be purchased separately.

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Packer Bore (inches)	Upper Seal Bore (inches)	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	2.062	2.688	26845
5	15.0 - 18.0	4.276 - 4.408	4.000	2.688	3.000	26850
5-1/2	13.0 - 20.0	4.778 - 5.044	4.625	3.000	4.000	26855
	20.0 - 23.0	4.670 - 4.778	4.500	3.000	4.000	26857
7	17.0 - 26.0	6.276 - 6.538	5.938	4.000	5.250	26870
	23.0 - 29.0	6.184 - 6.366	5.938	4.000	4.750	26874
	26.0 - 32.0	6.094 - 6.276	5.875	4.000	5.250	26871
					5.000	26871X
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	4.000	4.750	26875

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





RSB RETRIEVING TOOL

The **RSB Retrieving Tool** is used to retrieve RSB Packers. This retrieving tool latches into the top sub with a standard anchor latch to allow the RSB Packer to be retrieved with a straight pull. A spring-loaded collet locates below the support ring that keeps the packer locked in a set position. Latch fingers latch into the packer. A pull shears the support ring and releases the packer. If

the packer cannot be retrieved normally, this retrieving tool has a safety release that allows it to be disconnected from the packer with right-hand rotation.

Special Features

- Simple operation
- Safety shear release
- Rugged design for multiple use

Product Specifications - Single Bore RSB

Packer Size (inches)	Packer Bore (inches)	Tool OD (inches)	Tool ID (inches)	Top Connection	Part Number
5	2.688	3.500	1.00	2-3/8 EUE	26650
5-1/2	3.000	3.688	1.25	2-7/8 EUE	26655
6-5/8	3.250	4.250	1.38	2-7/8 EUE	26665
7	3.000	3.688	1.25	2-7/8 EUE	26655
	4.000	5.062	1.75	2-7/8 EUE	26670
9-5/8	6.000	6.980	2.75	4-1/2 EUE	26696
					26696-2
13-3/8	9.000	9.365	5.75	7" LTC	26613

NOTE: Other sizes and connections available upon request.

Product Specifications - Dual Bore RSB

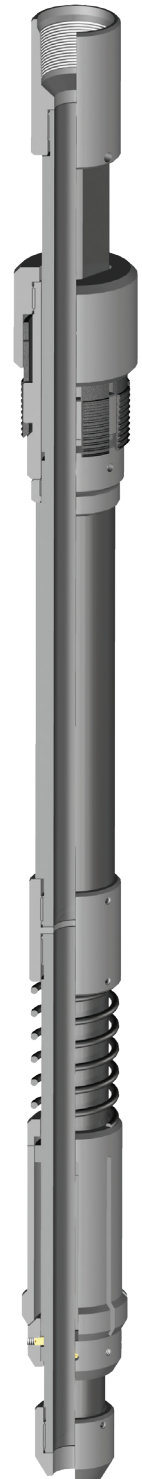
Packer Size (inches)	Packer Bore (inches)	Tool OD (inches)	Tool ID (inches)	Top Connection	Part Number
4-1/2	3.50	0.50	2.688 / 2.062	2-3/8 EUE	26945RT
5	3.000 / 2.688	3.688	1.00	2-7/8 EUE	26950RT
5-1/2	3.000	3.688	1.25	2-7/8 EUE	26655
7	5.250 / 4.000	5.062	1.75	2-7/8 EUE	26670
7-5/8	4.750 / 4.000	5.810	1.75	2-7/8 EUE	26975

NOTE: Other sizes and connections available upon request.

Product Specifications - Hydraulic Set RSB

Packer Size (inches)	Packer Bore (inches)	Tool OD (inches)	Tool ID (inches)	Top Connection	Part Number
5-1/2	3.000	3.688	1.25	2-7/8 EUE	27655
7	4.000	5.062	1.75	2-7/8 EUE	27670

NOTE: Other sizes and connections available upon request.





TYPE IB TANDEM TENSION PACKER

The **Type IB Tandem Tension Packer** is an economical, compact, low-pressure, tension set, isolation packer used in casing or perforations and multi-zone injection installations. This packer runs with a tension set packer below. It can be run with the J-pins in the un-jayed position or in the jayed position. In the un-jayed position, applying tension shears the shear pins and allows pack-off.

If run in the jayed position, the IB Tandem Tension Packer must be used in

conjunction with an ASI-X Packer. Set down weight shears the pins; left-hand rotation and applied tension will set the tool.

Special Features

- Economical
- Run in jayed position, or un-jayed position
- Optional J-configurations

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
3-1/2	7.7 - 10.3	2.922 - 3.068	2.781	1.53	1.900 EUE	43635
4-1/2	9.5 - 11.6	4.000 - 4.090	3.844	1.94	2-3/8 EUE	43644
				2.38	2-7/8 EUE	43646
	9.5 - 13.5	3.920 - 4.090	3.750	1.50	2-3/8 EUE	43647
				1.94	2-3/8 EUE	43645
	15.1	3.826	3.650	1.94	2-3/8 EUE	43643
5	15.0 - 18.0	4.276 - 4.408	4.125	1.94	2-3/8 EUE	43651
				2.38	2-7/8 EUE	43650
	18.0 - 20.8	4.156 - 4.276	4.000	1.94	2-3/8 EUE	43652
5-1/2	13.0 - 15.5	4.950 - 5.044	4.781	2.00	2-3/8 EUE	43655
				2.44	2-7/8 EUE	43656
	13.0 - 20.0	4.778 - 5.044	4.750	3.00	3-1/2 EUE	43653
	15.5 - 20.0	4.778 - 4.950	4.641	2.00	2-3/8 EUE	43657
				2.44	2-7/8 EUE	43658
	15.5 - 23.0	4.670 - 4.950	4.500	2.00	2-3/8 EUE	43654
7	17.0 - 23.0	6.366 - 6.538	6.125	2.00	2-3/8 EUE	43671
				2.44	2-7/8 EUE	43670
	17.0 - 26.0	6.276 - 6.538	6.000	3.00	3-1/2 EUE	43673
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	2.44	2-7/8 EUE	43675
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	3.00	3-1/2 EUE	43696
	43.5 - 53.5	8.535 - 8.755	8.250	2.50	2-7/8 EUE	43695

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





SET DOWN ISOLATION PACKER

The **Set Down Isolation Packer** is an economical, compact compression set tool used to isolate casing or perforations. It can also be used in multi-zone injection applications. This packer runs above a compression set packer (such as the AS-II Packer or AS-III Packer). Applied compression will shear the shear screws and allow pack-off. Straight pick-up releases the packer.

Special Features

- Economical design
- Adjustable delayed set
- No rotation needed to set or un-set

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
2-7/8	6.5	2.375	2.250	1.50	1.900 NUE / 1.900 EUE	64125
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	64145
5	11.5 - 20.8	4.156 - 4.560	4.000	1.94	2-3/8 EUE	64150
5-1/2	13.0 - 20.0	4.778 - 5.044	4.625	1.94	2-3/8 EUE	64155
				2.50	2-7/8 EUE	64156
				3.00	3-1/2 EUE	64158
	20.0 - 23.0	4.670 - 4.778	4.500	2.50	2-7/8 EUE	64159
7	17.0 - 26.0	6.276 - 6.538	6.000	2.00	2-3/8 EUE	64171
				2.50	2-7/8 EUE	64170
				3.00	3-1/2 EUE	64174
	26.0 - 32.0	6.094 - 6.276	5.875	3.00	3-1/2 EUE	64173
7-5/8	33.7 - 39.0	6.625 - 6.765	5.938	2.82	2-7/8 EUE / 4-1/2 LTC	64175
8-5/8	32.0 - 40.0	7.725 - 7.921	7.500	3.00	3-1/2 EUE	64182
9-5/8	32.3 - 47.0	8.681 - 9.001	8.438	3.00	3-1/2 EUE	64196
	40.0 - 47.0	8.681 - 8.835	8.438	4.00	4-1/2 EUE	64195

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





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MECHANICAL BALL VALVE

The **Mechanical Ball Valve** is a means for pressure control downhole at the packer. The ball valve provides a seal for pressure above or below the valve. This allows for pressure operation to be conducted above a set packer without disturbing formations below. No tubing plugs need to be run.

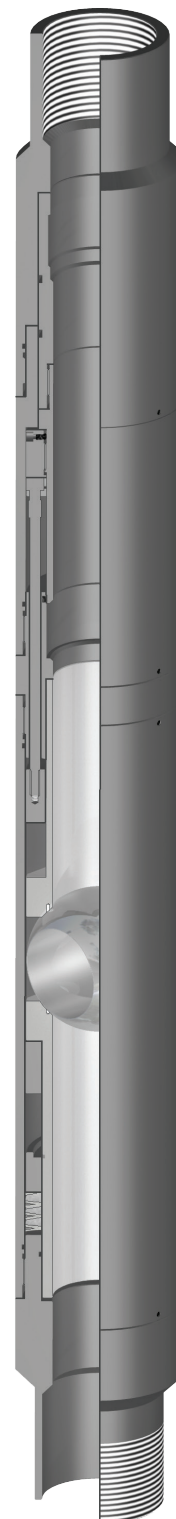
Special Features

- Holds pressure both directions
- Will not open under tubing pressure
- Full opening
- Non-elastomeric seat seal for repeated opening and closings
- Simple collet stinger design

Product Specifications

Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
4-1/2	5.875	3.25	4-1/2 VAM TOP	54945
5-1/2	8.190	4.30	4-1/2 VAM TOP	54955

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





YO-YO TENSION PACKER (YYT)

The **YYT Packer** is an economical, compact tool for injection, pumping, medium range treating and production applications. The yo-yo J-slot design allows the packer to be set and unset without rotation of the tubing.

The packer features an adjustable straight pull safety shear release. This packer is not designed to be run in compression.

Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	40945C-3
	13.5 - 15.1	3.826 - 3.920	3.656	1.94	2-3/8 EUE	40944C-3
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	1.94	2-3/8 EUE	40955C-3





NOTES

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Hydraulic Set Packers



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DLH PACKER

The **DLH Packer** is a hydraulic set single-string retrievable packer and may be used in virtually any production application. Tubing pump pressure is used to set the packer and the setting force is locked into the packer by a body lock ring. A large internal by-pass reduces swabbing when running and retrieving. The by-pass closes when the packer is set, and opens during the releasing process to allow pressure equalization. Shear screws are used to control the packer release. The standard DLH Packer is designed for differential pressures up to 7,500 PSI.

Special Features

- Adjustable setting initiation pressure
- Adjustable shear release
- Straight pull release



Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	93545
	15.1	3.826	3.656	1.94	2-3/8 EUE	93546
5	11.5 - 15.0	4.408 - 4.560	4.125	1.94	2-3/8 EUE	93550
	18.0 - 21.0	4.154 - 4.276	4.000	1.94	2-3/8 EUE	93552
5-1/2	13.0 - 15.5	4.950 - 5.044	4.813	2.38	2-7/8 EUE	93558
	14.0 - 20.0	4.778 - 5.012	4.625	2.00	2-3/8 EUE	93555
				2.38	2-7/8 EUE	93556
	20.0 - 23.0	4.670 - 4.778	4.500	2.00	2-3/8 EUE	93557
				2.38	2-7/8 EUE	93559
	12.0 - 20.0	5.352 - 5.620	5.188	2.38	2-7/8 EUE	93561
6	17.0 - 23.0	5.240 - 5.450	5.063	2.38	2-7/8 EUE	93560

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.

Rubber Trim Upgrade Options (additional cost, inquire with a sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM



DLH Packer Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	2.50	2-7/8 EUE	93567
				3.00	3-1/2 EUE	93568
	24.0 - 32.0	5.675 - 5.921	5.500	2.50	2-7/8 EUE	93566
				3.00	3-1/2 EUE	93565
7	17.0 - 26.0	6.276 - 6.538	6.000	2.50	2-7/8 EUE	93572
				3.00	3-1/2 EUE	93574
	26.0 - 32.0	6.094 - 6.276	5.875	2.50	2-7/8 EUE	93570
				3.00	3-1/2 EUE	93573
	29.0 - 35.0	6.004 - 6.184	5.812	2.50	2-7/8 EUE	93571
				3.00	3-1/2 EUE	93573HW
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	2.50	2-7/8 EUE	93575
				3.00	3-1/2 EUE	93578
	29.7 - 33.7	6.765 - 6.875	6.563	3.00	3-1/2 EUE	93578A
				2.50	2-7/8 EUE	93576
	33.7 - 39.0	6.625 - 6.765	6.453	3.00	3-1/2 EUE	93577
8-5/8	24.0 - 40.0	7.725 - 8.097	7.500	4.00	4-1/2 EUE	93585
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	2.50	2-7/8 EUE	93596-WBAC
				3.00	3-1/2 EUE	93596-WBAE
				4.00	4-1/2 EUE	93596
	43.5 - 53.5	8.535 - 8.755	8.250	2.50	2-7/8 EUE	93595-XBAC
				3.00	3-1/2 EUE	93595-WBAE
				4.00	4-1/2 EUE	93595
10-3/4	51.0 - 65.7	9.560 - 9.850	9.312	4.00	4-1/2 EUE	93510
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	5.00	5-1/2 LTC	93513

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.
Rubber Trim Upgrade Options (additional cost, inquire with a sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM



HYDROSET II PACKER

The **Hydroset II Packer** is a hydraulic set, mechanically held dual string production packer normally run above a single string hydraulic set or wireline set seal bore packer. Because no tubing manipulation is required to set this packer, the well head can be installed and flanged up before setting.

This packer is available with short string or long string setting capabilities and a variety of tubing connections. This packer is also adaptable for electrical submersible pump applications. This packer features a sequential upper slip release system designed to release each slip individually to reduce the pull required to release the packer. The angles on the upper slips and upper slip body result in the slips releasing smoothly from the casing.

Design Options

- Several short string options available:
 - Solid connection (flat top)
 - J-Latch (complete with scoop head)
 - "C" Latch (Snap Latch - complete with scoop head)
- Feed-through tubes can be added to most designs
- Accessories
 - Adjustable unions
 - Telescoping unions





Hydroset II Packer Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Long String		Short String		Part Number
Size (inches)	Weight (lbs/ft)			Connections	Min ID (inches)	Connections	Min ID (inches)	
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	1.900 EUE	1.50	1.900 NUE / 1.660 EUE	1.38	90555-BAA-BBA
7	17.0 - 26.0	6.276 - 6.538	6.062	2-3/8 EUE	1.94	2-3/8 EUE	1.94	90572-BAB
				2-7/8 EUE	2.50	1.900 EUE	1.61	90572-BAC-BAA
		2.50	1.900 NUE		1.50	90572-BAC-BBA		
	26.0 - 32.0	6.094 - 6.276	5.938	2-3/8 EUE	1.94	2-3/8 EUE	1.94	90570-BAB
				2-7/8 EUE	2.50	1.900 EUE	1.50	90570-BAC-BBA
				2-7/8 NUE	2.50	1.900 NUE / 1.900 EUE	1.50	90570-BBC-BAA
				2-7/8 EUE	2.50	1.900 NUE	1.50	90570-BAC-BAA
	29.0 - 35.0	6.004 - 6.184	5.875	2-3/8 EUE	1.94	2-3/8 EUE	1.94	90571-BAB
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	2-7/8 EUE	2.39	2-3/8 NUE / 2-3/8 EUE	1.94	90575-BAC-BAB
8-5/8	24.0 - 32.0	7.921 - 8.097	7.688	2-7/8 EUE	2.39	2-7/8 NUE / 2-7/8 EUE	2.39	90585-BAC
				3-1/2 EUE	3.00	2-3/8 EUE	2.00	90585-BAE-BAB
	36.0 - 40.0	7.725 - 7.825	7.438	2-7/8 EUE	2.44	2-3/8 EUE	1.94	90586-BAC-BAB
9-5/8	32.3 - 40.0	8.835 - 9.001	8.615	3-1/2 EUE	3.00	1.900 EUE	1.61	90597-BAE-BAA
						2-3/8 EUE	1.94	90597-BAE-BAB
						2-7/8 EUE	2.44	90597-BAE-BAC
				4-1/2 EUE	4.00	1.900 EUE	1.61	90597-BAG-BAA
	32.3 - 47.0	8.681 - 9.001	8.500	3-1/2 EUE	3.00	3-1/2 EUE	3.00	90595-BAE
	36.0 - 43.5	8.755 - 8.921	8.500	3-1/2 EUE	3.00	2-3/8 EUE	2.00	90595-BAE-BAB
						2-7/8 EUE	2.39	90595-BAE-BAC
				4-1/2 EUE	4.00	1.900 EUE	1.19	90595-BAG-BAA
	47.0 - 53.5	8.535 - 8.681	8.312	3-1/2 EUE	3.00	1.900 EUE	1.61	90596-BAE-BAA
						1.900 NUE	1.61	90596-BAE-BBA
						2-3/8 EUE	2.00	90596-BAE-BAB
						2-7/8 EUE	2.39	90596-BAE-BAC
						3-1/2 EUE	3.00	90596-BAE
10-3/4	51.0 - 65.7	9.560 - 9.850	9.312	4" EUE	3.50	2-7/8 EUE	2.39	90510-BAF-BAC

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.
Available Designs: Flat Top, J-Latch, "C" Latch (Snap Latch), Dual/Multiple Feed Thru



HYDROSET II-A PACKER

The **Hydroset II-A Packer** is a hydraulic set, mechanically held dual string production packer normally run above a single string hydraulic set or wireline set seal bore packer. Because no tubing manipulation is required to set this packer, the well head can be installed and flanged up before setting.

This packer is available with short string or long string setting capabilities and a variety of tubing connections. This packer is also adaptable for electrical submersible pump applications. This packer features a sequential upper slip release system designed to release each slip individually to reduce the pull required to release the packer. The angles on the upper slips and upper slip body result in the slips releasing smoothly from the casing.

Hydroset II Packer Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Long String		Short String		Part Number
Size (inches)	Weight (lbs/ft)			Connections	Min ID (inches)	Connections	Min ID (inches)	
7	26.0 - 32.0	6.094 - 6.276	5.938	2-7/8 EUE	2.39	1.900 NUE	1.50	94570-BAC-BBA





DLESP PACKER

The **DLESP Packer** is a hydraulic set, mechanically held, Electric Submersible Pump (ESP) production packer, with secondary bores for ESP feed through cable and optional chemical feed through lines. Because no tubing manipulation is required to set this packer, the wellhead can be installed and flanged up before setting.

This packer is available with a variety of tubing connections. The packer features a sequential upper slip release system designed to release each slip individually to reduce the pull required to release it. The angles on the upper slips and upper slip body result in the slips releasing smoothly from the casing.

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Long String		Short String		Feed Thru Holes ID (inches)	Part Number
Size (inches)	Weight (lbs/ft)			Connections	Min ID (inches)	Connections	Min ID (inches)		
4-1/2	9.5 - 13.5	3.920 - 4.090	3.781	1.900 EUE	1.50	-	-	3/8 NPT X 1/4 NPT = 0.42	94845-BAA-2
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	1.900 EUE	1.00	-	-	(QTY 4) 3/8 NPT = 0.50	94855V-BBA-5
6-5/8	20.0 - 28.0	5.791 - 6.049	5.640	2-7/8 EUE	2.39	-	-	(QTY 5) 1/2 NPT = 0.62	94866-BAC-5
7	17.0 - 26.0	6.276 - 6.538	6.062	3-1/2 EUE	2.94	-	-	(QTY 4) 1/4 NPT = 0.37	94872-BAE-4
	26.0 - 32.0	6.094 - 6.276	5.938	2-7/8 EUE	2.39	1.900 NUE	1.50	3/8 NPT = 0.50 AND 3/4 NPT = 0.82	94870-BAC-BBA-3
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	3-1/2 EUE	2.94	1.900 EUE/ 1.900 NUE	1.50	3/4 NPT = 0.82 AND 3/8 NPT = 0.50	94875-BAE-BBA-3
9-5/8	53.5 - 58.4	8.435 - 8.535	8.250	3-1/2 EUE	2.94	1.900 NUE	1.50	3/4 NPT = 0.82	94894-BAE-BBA
	47.0 - 53.5	8.535 - 8.681	8.312	3-1/2 EUE	2.94	1.900 NUE	1.50	3/4 NPT = 0.82	94896-BAE-BBA
	36.0 - 47.0	8.681 - 8.921	8.500	3-1/2 EUE	2.94	1.900 NUE	1.50	3/4 NPT = 0.82	94895-BAE-BBA

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.
*Call for custom configurations



Hydraulic Set Packers



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HYDROSET IV PACKER

The **Hydroset IV Packer** is a hydraulic set single string retrievable packer. Tubing pump pressure is used to set the packer and the setting force is locked into the packer by a body lock ring. Its design allows for multiple zone completions. It can be run with other hydraulic packers or mechanical set packers.

This packer is ideal to run as a tandem packer with double grip packers that will lock the tubing in place. This packer is released with a straight pull to shear releasing screws.

This packer features a three element packing arrangement, a lock ring mechanism to lock in setting force, and field adjustable shear screws to allow adjustment of setting initiation and releasing force required to release the packer.

Special Features

- Simple operation
- Compact
- Field adjustable setting initiation pressure
- Field adjustable releasing force





Hydroset IV Packer Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connection Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
3-1/2	7.7 - 10.2	2.922 - 3.068	2.781	1.25	1.900 NUE	65435
4	9.5 - 11.0	3.476 - 3.548	3.250	1.75	2-3/8 EUE	65440
	12.95	3.340	3.187	1.75	2-3/8 EUE	65441
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	2.00	2-3/8 EUE	65445
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	2.00	2-3/8 EUE	65455
				2.38	2-7/8 EUE	65456
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	2.50	2-7/8 EUE	65467
				3.00	3-1/2 EUE	65468
	24.0 - 32.0	5.675 - 5.921	5.500	2.50	2-7/8 EUE	65465
				3.00	3-1/2 EUE	65466
7	17.0 - 26.0	6.276 - 6.538	6.000	2.50	2-7/8 EUE	65472
				3.00	3-1/2 EUE	65474
	20.0 - 29.0	6.184 - 6.456	5.938	2.50	2-7/8 EUE	65471
	26.0 - 32.0	6.094 - 6.276	5.875	2.50	2-7/8 EUE	65470
				3.00	3-1/2 EUE	65473
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	2.50	2-7/8 EUE	65475
				3.00	3-1/2 EUE	65478
	33.7 - 39.0	6.625 - 6.765	6.453	2.50	2-7/8 EUE	65476
				3.00	3-1/2 EUE	65477

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.
Rubber Trim Upgrade Options (additional cost, inquire with a sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM



HYDRAULIC OPEN HOLE PACKER

The **Hydraulic Open Hole Packer** is a hydraulic set, single string packer suitable for use in open hole applications. Tubing pressure is used to set the packer and the setting force is locked into the packer by a body lock ring. This packer features a double backup element system that is capable of holding high pressures in open hole or large ID cased holes. A large ID is maintained through the packer for increased flow potential. It is ideal for use as a tandem isolation packer between ports in a multi-stage hydraulic fracturing completion.



Product Specifications

Packer Size (inches)	Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
7	5.875 - 6.600	5.750	3.92	4-1/2 LTC	33570-1
7-1/2	7.500 - 8.250	7.350	4.75	5-1/2 BTC	33575-1
8-1/2	8.000 - 9.000	7.780	4.75	5-1/2 BTC	33580-1
	8.500 - 8.750	8.000	4.75	5-1/2 BTC	33581-1

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



PERMANENT HYDRAULIC ISOLATION PACKER

The **Permanent Hydraulic Isolation Packer** is a robust production packer capable of handling large amounts of weight hung below the packer. This packer features a large ID for increased flow potential. This packer also has upper and lower centralizing slips which increases its ability to set in deviated sections of wells. This packer uses our proven Permapak components.

The setting equipment for the Permanent Hydraulic Isolation Packer is built into the packer. It requires pressurizing the tubing/casing it is run on once the packer reaches setting depth.

Special Features

- Adjustable setting initiation pressure
- Uses proven Permapak components



Hydraulic Set Packers

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Packer Bore (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
7	17.0 - 26.0	6.276 - 6.538	6.000	4.000	4-1/2 LTC	68570
					4-1/2 BTC	68570-XBLA
	23.0 - 32.0	6.094 - 6.366	5.875	4.000	4-1/2 LTC	68571
					4-1/2 BTC	68571-XBLA
7-5/8	24.0 - 39.0	6.625 - 7.025	6.250	4.000	4-1/2 LTC	68575
					4-1/2 BTC	68575-XBLA
9-5/8	36.0 - 53.5	8.535 - 8.921	8.125	5.000	5-1/2 LTC	68595-XBCC
				5.500	6-5/8 LTC	68595
				6.000	7" LTC	68595-XBCE

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Hydraulic Set Packers

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Permanent Packers



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PERMAPAK PACKER - SINGLE BORE

The **Permapak Seal Bore Packer** can be used for single or multiple zone completions. It is designed for wells where high pressure/temperatures and corrosive fluids are present and it is available in a variety of elastomers and seal bore materials to meet a wide range of hostile downhole environments. This packer is recommended for injection stimulation and testing or can become a temporary bridge plug when used with our knock-out or pump-out bottom assembly (refer to Permapak Packer

Tubing and Accessories product sheet). The Permapak Seal Bore Packer comes with a complete line of tubing seal accessories and elastomers.

Special Features

- Electric line, hydraulic or mechanical set
- Components keyed for milling
- Anti-extrusion rings expand to casing ID to prevent rubber extrusion
- Full circle slips allow for faster run time



Product Specifications - Single Bore

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Packer Bore (inches)	Min ID Thru Seals (inches)	Part Number
Size (inches)	Weight (lbs/ft)					
3-1/2	7.7 - 10.2	2.922 - 3.068	2.750	1.750	1.187	67235
4	9.5 - 11.6	3.428 - 3.548	3.281	1.750	1.187	67240
	11.6 - 14.8	3.240 - 3.428	3.090	1.750	1.187	67241
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	2.500	1.910	67045
				2.688	1.938	67245
	15.1	3.826	3.600	2.500	1.910	67246
5	15.0 - 21.4	4.126 - 4.408	3.968	2.500	1.910	67050
				2.688	1.938	67250
5-1/2	13.0 - 17.0	4.892 - 5.044	4.532	2.688	1.938	67055
				3.000	2.375	67255
	17.0 - 23.0	4.670 - 4.892	4.438	2.688	1.938	67056
				3.000	2.375	67256
	23.0 - 26.0	4.548 - 4.670	4.250	2.688	1.938	67057

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Permapak Single Bore Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Packer Bore (inches)	Min ID Thru Seals (inches)	Part Number
Size (inches)	Weight (lbs/ft)					
6	18.0 - 26.0	5.132 - 5.424	4.875	3.000	2.375	67260
6-5/8	17.0 - 32.0	5.675 - 6.135	5.468	3.250	2.416	67065
7	17.0 - 23.0	6.366 - 6.538	6.000	3.250	2.406	67070
				4.000	3.000	67270
	23.0 - 32.0	6.094 - 6.366	5.813	3.250	2.406	67071
				4.000	3.000	67271
	32.0 - 38.0	5.920 - 6.094	5.625	3.250	2.406	67072
				4.000	3.000	67272
7-5/8	24.0 - 39.0	6.625 - 7.025	6.250	3.250	2.416	67075
				4.000	3.000	67275
8-5/8	24.0 - 32.0	7.921 - 8.097	7.625	4.000	3.000	67085
				5.250	4.250	67286
9-5/8	36.0 - 53.5	8.535 - 8.921	8.125	3.250	2.416	67093
				4.000	3.000	67094
				4.750	3.500	67095
				6.000	4.750	67295
10-3/4	40.5 - 55.5	9.760 - 10.050	9.496	4.000	3.000	67010
			9.300	6.000	4.750	67210
	45.5 - 60.7	9.660 - 9.950	9.300	4.000	3.000	67010-9.3
11-3/4	42.0 - 65.0	10.682 - 11.084	10.430	6.000	4.750	67211
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	9.000	8.000	67213

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



PERMAPAK PACKER - DUAL BORE

The **Dual Bore Permapak Packer** is a highly versatile packer which has a large upper sealbore to allow for a large bore through the packer. This packer may be set on wireline or hydraulically and can be used for single or multiple zone completions. This packer is designed for wells where high flow rates, high pressure, high temperatures and corrosive fluids are present. This packer is available in a variety of elastomers and seal bore materials to meet a wide range of hostile downhole environments. This packer is recommended for production, injection, stimulation and testing or can become a temporary plug when used with the Knock-Out or Pump-Out Bottom Assembly.

The Dual Bore Permapak Packer comes with a complete line of accessories and elastomers. Contact sales for more information.

Special Features

- Large packer through bore
- Large seal mandrel through bore
- Proven Permapak Packer design



Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Seal Bore		Min ID Thru Seals (inches)	Part Number
Size (inches)	Weight (lbs/ft)			Upper (inches)	Lower (inches)		
4	9.5 - 11.6	3.428 - 3.548	3.281	2.688	1.750	1.750	67340
	11.6 - 14.8	3.240 - 3.428	3.090	2.688	1.750	1.750	67341
5	15.0 - 21.0	4.154 - 4.408	3.968	3.000	2.688	2.375	67350
5-1/2	17.0 - 23.0	4.670 - 4.892	4.438	4.000	3.000	3.000	67355
7	23.0 - 32.0	6.094 - 6.366	5.813	4.750	4.000	3.500	67371
				5.000	4.000	4.000	67371X
	26.0 - 29.0	6.184 - 6.276	5.900	5.250	4.375	4.250	67373
7-5/8	24.0 - 39.0	6.625 - 7.025	6.250	5.000	4.000	4.000	67375X
9-5/8	36.0 - 53.5	8.535 - 8.921	8.125	7.000	6.000	4.750	67395
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	10.000	9.000	8.000	67313

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



HYDRAULIC PERMAPAK PACKER

The **Hydraulic Permapak Packer** is a hydraulic set seal bore packer and is the hydraulic set equivalent of the Permapak Seal Bore Packer. The full range of Permapak Seal Bore Accessories may be used with the Hydraulic Permapak.

Pressure sets the packer via a setting chamber built into the tool. Pressure enters the setting chamber via holes in the polished bore of this packer. These holes can be isolated with a ball-operated sub so other hydraulic operated tools can be functioned before setting the packer.

Special Features

- Uses proven Permapak components
- Compatible with Permapak options
- Optional upper sealbore available
- Single bore or dual bore option

Product Specifications - Single Bore

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Packer Bore (inches)	Min ID Thru Seals (inches)	Part Number
Size (inches)	Weight (lbs/ft)					
7	23.0 - 32.0	6.094 - 6.366	5.875	4.000	3.000	68371
	32.0 - 38.0	5.920 - 6.094	5.813	4.000	3.000	68372
9-5/8	36.0 - 53.5	8.535 - 8.921	8.125	4.750	3.500	68393
				5.000	4.750	68395

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.

Product Specifications - Dual Bore

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Seal Bore		Min ID Thru Seals (inches)	Part Number
Size (inches)	Weight (lbs/ft)			Upper (inches)	Lower (inches)		
7	17.0 - 23.0	6.366 - 6.538	6.000	5.250	4.000	4.000	68170
	23.0 - 32.0	6.094 - 6.366	5.875	5.250	4.000	4.000	68171
9-5/8	36.0 - 53.5	8.535 - 8.921	8.250	7.500	6.000	6.000	68195

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Permanent Packers



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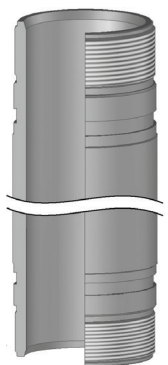
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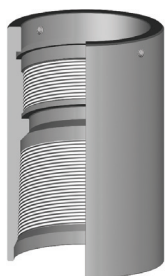
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PERMAPAK ACCESSORIES



Seal Bore Extension

A **Seal Bore Extension** is used in installations where floating seals are required due to tubing contractions. This packer accessory allows for a continuous seal bore and is available in lengths up to twenty feet.



Seal Bore to Mill-Out Coupling

A **Seal Bore to Mill-Out Coupling** is used to connect mill-out extensions to seal bore extensions.



Concentric Bottom

A **Concentric Bottom** is used to connect a seal bore extension to a packer.



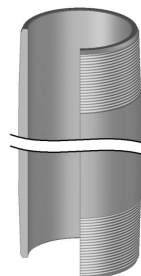
Knock-Out Plug Bottom

When a **Knock-Out Bottom** is run below the packer, the knock-out plug allows a packer to serve as a bridge plug holding pressure from above and below.



Knock-Out Plug

A **Knock-Out Plug** is knocked out when the production string is landed.



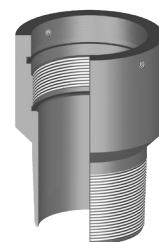
Mill-Out Extension

A **Mill-Out Extension** is used in installations where floating seals are required due to tubing contractions. In addition, this packer accessory provides a larger ID between a packer bore and a seal bore extension allowing a packer plucker when a packer is milled out.



Pump Out Plug

A **Pump-Out Plug** is available with a choice of threads allowing the pump-out plug to be attached to a packer, seal bore extension, mill-out extension or tailpipe and hold pressure from below after the packer is set. Once the production string is landed, pressure is applied to the tubing and the pump-out plug is removed to allow full opening.



Mill-Out Bottom

A **Mill-Out Bottom** is used to connect a mill-out extension to a packer.



Concentric Coupling

A **Concentric Coupling** is used to connect seal bore extensions to increase length.



Wireline Re-Entry Bottom

A **Wireline Re-Entry Bottom** is used as the packer bottom when an extension below a packer is not required.



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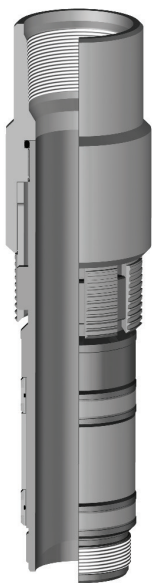
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PERMAPAK ACCESSORIES

Permanent Packers



Anchor Latch Assembly

The **Anchor Latch Seal Assembly** is used when floating seals are not required. This assembly allows the tubing string to be in tension or compression. Upon set down the anchor latches into the packer and can be removed with eight to ten right-hand turns.



Snap Latch Assembly

The **Snap Latch Seal Assembly** latches into the packer upon set down (like our Anchor Latch Seal Assembly). It can be removed with straight pull of 10,000 to 12,000 lbs. above tubing weight. The Snap Latch Seal Assembly is used where a mechanical indication is required to verify the seal assembly is properly positioned in the packer bore.



Seal Unit

The standard **Seal Unit** is furnished with bonded nitrile rings and a 12-inch make-up length. These units may be ordered in various lengths and with severe service seal rings for high temperature and corrosive environmental conditions.



Locator Seal Assembly

The **Locator Seal Assembly** is used in installations which require floating seals. Once landed, the seal locator prevents downward movement of the tubing while allowing the seal to move with tubing contraction.

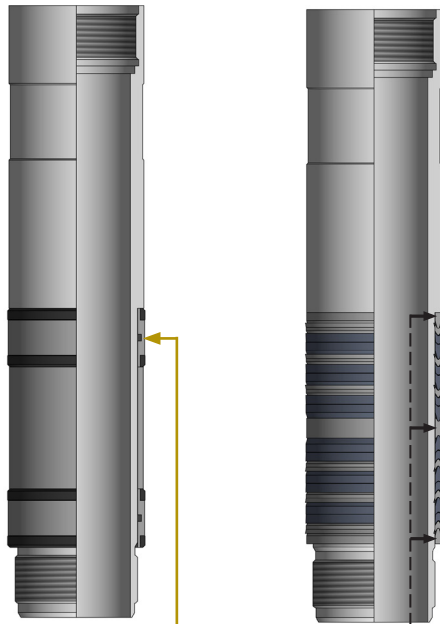


Half Mule Shoe Guide

The **Half Mule Shoe Guide** is standard with the Seal Assembly to allow for easy entry into the packer bore.



SEAL INFORMATION SHEET



CHEVRON SEAL STACKS ARE AVAILABLE FOR HIGH TEMPERATURE SEALING CAPABILITY.

A collection of seals and spacers provides high pressure sealing capability at higher temperatures. The seal stacks are arranged in opposing pairs that allow them to seal from both directions using multiple redundant seals.



CHEVRON SEALS, OR "V" SEALS

are seals designed to have an interference fit with the Seal Mandrel and a sealing surface so seals develop at the points of interference. The seal is only present when pressure comes from the direction of the "V". This is why Chevron Seals are usually used in opposing directional sets. They are made from rubber to take advantage of the elastomeric properties needed to form a low pressure (and high pressure) seal. Chevron seals are available in Viton and Aflas.



TEFLON SEALS

are a soft plastic seal with a slight interference with the Seal Mandrel and sealing surface. They act as a secondary seal to Chevron Seals and as an anti-extrusion device for the elastomer seal above them in a seal stack.

RYTON SPACERS

are a hard plastic spacer that provides extrusion resistance to the elastomeric and plastic seals above them in a seal stack. They do not form a seal but help restrict damaging extrusion to the seals.

SEAL SPACERS

hold the seals in the proper arrangement and keep the seal sets from interfering with one another. Seal Spacers are generally made from carbon steel but can be made from other steels where needed.

BONDED SEALS ARE DESIGNED TO BE GENERAL PURPOSE SEALS.

Rubber bonded to the seal is designed to have an interference fit with a sealing surface so a seal develops at the point of interference. The Bonded Seals also have an O-ring inside to eliminate any leak path under the Bonded Seal. Generally there are two Bonded Seals to a seal unit but this can be changed if desired. Bonded Seals are available in Nitrile, HNBR (HSN), and Viton with the O-ring matching the rubber type.

SEAL	TEMPERATURE RATING	OPERATING ENVIRONMENT(S)
Bonded Nitrile	250 ° F	General Duty, Seal Unloading, Wiper Seal
Bonded HSN (HNBR)	300° F	Medium Duty, Seal Unloading, ED Applications
Bonded Viton	350° F	Heavy Duty, Seal Unloading, ED Applications
VTR Stack	350° F	Heavy Duty, Corrosive Environments, ED Applications
ATR Stack	400° F	HT/HP, Corrosive Environments

SEAL MANDRELS	ENVIRONMENT
Standard Steels	Oil/Gas, Steam, <.2% H ₂ S/CO ₂
Nickle Plated Standard Steels	Oil/Gas, Steam, Disposal Water, < .4% H ₂ S/CO ₂
Stainless/ Duplex Stainless Steels	Oil/Gas, Steam, Disposal Water, < 5% H ₂ S/CO ₂
Nickle Based Alloys	Oil/gas, Steam, Disposal Chemicals, < 25% H ₂ S/CO ₂

*Elastomers available up to 650° F.

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WIRELINER ADAPTER KIT – FOR PERMAPAK PACKER

The **Wireline Adapter Kit (WLAK) – for Permapak Packer** is designed to set Permapak Seal Bore Packers with industry standard wireline pressure setting assemblies or comparable equipment.

This setting equipment can also be used with hydraulic setting tools that are configured like the standard setting tool. The setting equipment is designed so the outer sleeve can be adjusted to provide a proper make up to the packer.

Product Specifications

Setting Tool Size	Setting Tool OD (inches)	External Threads	Internal Threads	Packer Sizes
05	1.718	1-1/4" UNS	5/8" UNF	2-3/8" 2-7/8" 3-1/2"
10	2.750	2-1/2" ACME	1" UNC	4" 4-1/2" 5"
20	3.800	3-1/2" STUB ACME	2" ACME	5-1/2" & LARGER

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Permanent Packers



Permanent Packers

Service Tools



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HD RETRIEVABLE PACKER

The **HD Retrievable Packer** is a heavy duty service packer ideally suited for all types of squeeze cementing, formation fracturing, high pressure acidizing, etc. It is a large opening compression set packer with hydraulic button-type hold down. This packer withstands high pressure from above or below and uses a 3-element packing system, J-slot, and a drag block mechanism for easy setting. This packer has a built-in unloader which circulates across the hold down buttons to improve retrievability and run in performance.

Special Features

- Large internal by-pass
- Built in pressure-balanced unloader
- 1/4 turn set-straight pick up release (standard)
- Equalizing ports directly above elements
- Additional J-slot arrangements available



Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
4	9.5 - 11.0	3.476 - 3.548	3.250	-	1.50	1.900 NUE	61340RS
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	1.88	2-3/8 EUE	61345RS
	11.6 - 15.1	3.826 - 4.000	3.656	-	1.75	2-3/8 EUE	61346RS
5	11.5 - 15.0	4.408 - 4.560	4.125	-	1.88	2-3/8 EUE	61350RS
	18.0 - 21.0	4.154 - 4.276	3.969	-	1.88	2-3/8 EUE	61352RS
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	-	2.00	2-3/8 EUE	61357RS
	20.0 - 23.0	4.670 - 4.778	4.500	-	2.00	2-3/8 EUE	61356RS
5-3/4	15.0 - 16.1	5.201-5.240	5.000	-	2.00	2-3/8 EUE	61357XRS
	17.6 - 19.4	5.083-5.146	4.875	-	2.00	2-3/8 EUE	61357YRS
	21.5 - 24.0	4.909-5.004	4.720	-	2.00	2-3/8 EUE	61357ZRS
6	17.0 - 20.0	5.352 - 5.450	5.188	-	2.00	2-3/8 EUE	61360RS

¹ Maximum OD is across retracted drag blocks.

OPTIONS: RS (Right-Hand Auto Set, Straight Pick-Up Release), RM (Right-Hand Manual Set, Straight Pick-Up Release)

LS (Left-Hand Auto Set, Straight Pick-Up Release), LM (Left-Hand Manual Set, Straight Pick-Up Release)

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



HD Retrievable Packer Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
6-5/8	20.0 - 24.0	5.921 - 6.049	5.750	-	2.50	2-7/8 EUE	61367RS
	24.0 - 32.0	5.675 - 5.921	5.500	-	2.50	2-7/8 EUE	61365RS
	32.0 - 35.0	5.575 - 5.675	5.375	-	2.00	2-3/8 EUE	61366RS
	36.7 - 40.2	5.375 - 5.501	5.188	-	2.00	2-3/8 EUE	61360RS
7	17.0 - 26.0	6.276 - 6.538	6.000	6.062 ¹	2.50	2-7/8 EUE	61372RS
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	2-7/8 EUE	61370RS
	29.0 - 35.0	6.004 - 6.184	5.812	5.874 ¹	2.50	2-7/8 EUE	61371RS
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	-	2.50	2-7/8 EUE	61375RS
	33.7 - 39.0	6.625 - 6.765	6.453	6.499 ¹	2.50	2-7/8 EUE	61376RS
8-5/8	20.0 - 28.0	8.017 - 8.191	7.750	-	3.00	3-1/2 EUE	61385RS
	24.0 - 40.0	7.725 - 8.097	7.500	7.504 ¹	3.00	3-1/2 EUE	61387RS
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	-	4.00	4-1/2 EUE	61396RS
	43.5 - 53.5	8.535 - 8.755	8.250	-	4.00	4-1/2 EUE	61395RS
10-3/4	32.75 - 45.5	9.950 - 10.192	9.700	-	4.00	4-1/2 EUE	61301RS
	51.0 - 65.7	9.560 - 9.850	9.312	9.375 ¹	4.00	4-1/2 EUE	61310RS
	65.7 - 91.2	9.032 - 9.560	8.813	-	4.00	4-1/2 EUE	61399RS
11-3/4	42.0 - 65.0	10.682 - 11.084	10.438	10.500 ¹	4.00	4-1/2 EUE	61311RS
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	-	4.00	4-1/2 EUE	61313RS
16	65.0 - 109.0	14.688 - 15.250	14.438	-	5.00	6-5/8 API FULL HOLE TOOL JOINT	61316
17-7/8	-	16.500 - 17.000	16.250	-	3.75	4-1/2 IF TOOL JOINT	61317RS-XBEE
18	78.0 - 96.5	16.986 - 17.194	16.750	-	5.00	6-5/8 API FULL HOLE TOOL JOINT	61318X
18-5/8	87.5 - 117.5	17.439 - 17.755	17.000	-	5.00	6-5/8 API FULL HOLE TOOL JOINT	61318
20	129.0-169.0	18.376 - 18.730	18.000	-	5.00	6-5/8 API FULL HOLE TOOL JOINT	61320
22	-	19.875 - 20.375	19.500	-	5.00	6-5/8 API FULL HOLE TOOL JOINT	61322RS

¹ Maximum OD is across retracted drag blocks.

OPTIONS: RS (Right-Hand Auto Set, Straight Pick-Up Release), RM (Right-Hand Manual Set, Straight Pick-Up Release)

LS (Left-Hand Auto Set, Straight Pick-Up Release), LM (Left-Hand Manual Set, Straight Pick-Up Release)

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



AS RETRIEVABLE BRIDGE PLUG

The **AS Retrievable Bridge Plug** is a high pressure plug for multiple zone and selective single zone operations such as acidizing, fracturing, cementing and testing. It features a large internal by-pass to reduce swabbing when running and retrieving. The by-pass closes during the setting of the plug and opens prior to releasing the upper slips to equalize pressure when unsetting. The by-pass is located directly below the upper slips to help wash debris when the by-pass is open.

This tool can be set in tension or compression. It can be set shallow in unsupported casing to contain pressure while working on wellhead equipment. It can be set in tension making it ideal for setting shallow to test wellhead equipment and also deep, high-pressure wells.

The **ASW Retrievable Bridge Plug** is a version of the AS Retrievable Bridge Plug that allows the plug to be set on wireline

or with a hydraulic setting tool, and retrieved with tubing. It cannot be reset in the wellbore once it is unset, but it can be pulled, re-dressed and run again. A Wireline Adapter Kit is required for this version.

Special Features

- 1/4 right-hand set and release (standard)
- Large internal by-pass
- Set shallow or deep
- Pressure equalization before release
- High pressure rating
- Additional J-slot arrangements available
- AS Bridge Plug is set mechanically in tension or compression
- ASW Bridge Plug version can be set using wireline or hydraulic setting tool



Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Thread Connection Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)					Std	Wireline Set
3-1/2	7.7 - 10.2	2.922 - 3.068	2.781	-	1.900 EUE	72535RR	72435RR
4	9.5 - 11.0	3.476 - 3.548	3.250	-	1.900 EUE	72540RR	72440RR
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	2-3/8 EUE	72545RR	72445RR
	15.1	3.826	3.656	-	2-3/8 EUE	72544RR	72444RR
	15.1 - 16.6	3.754 - 3.826	3.625	-	2-3/8 EUE	72541RR	72441RR

¹Maximum OD is across retracted drag blocks.

OPTIONS: RR (Right-Hand Set, Right-Hand Release), LR (Left-Hand Set, Right-Hand Release)

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



AS Retrievable Bridge Plug Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Thread Connection Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)					Std	Wireline Set
5	11.5 - 15.0	4.408 - 4.560	4.125	4.215 ¹	2-3/8 EUE	72550RR	72450RR
	18.0 - 21.0	4.154 - 4.276	3.969	4.010 ¹	2-3/8 EUE	72552RR	72452RR
5-1/2	9.0 - 13.0	5.044 - 5.192	4.812	-	2-3/8 EUE	72554RR	72454RR
	13.0 - 20.0	4.778 - 5.044	4.625	-	2-3/8 EUE	72555RR	72455RR
	20.0 - 23.0	4.670 - 4.778	4.500	-	2-3/8 EUE	72557RR	72457RR
6	17.0 - 20.0	5.352 - 5.450	5.188	-	2-3/8 NUE	72560RR	72460RR
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	-	2-3/8 EUE	72567RR	72467RR
	24.0 - 32.0	5.675 - 5.921	5.500	-	2-3/8 EUE	72565RR	72465RR
	32.0 - 35.0	5.575 - 5.675	5.375	-	2-3/8 NUE	72566RR	72466RR
7	17.0 - 26.0	6.276 - 6.538	5.969	6.062 ¹	2-3/8 EUE	72570RR	72470RR
	26.0 - 32.0	6.094 - 6.276	5.875	-	2-3/8 EUE	72571RR	72471RR
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	6.687 ¹	2-3/8 EUE	72575RR	72475RR
	29.7 - 33.7	6.765 - 6.875	6.527	-	2-3/8 EUE	72576RR	72476RR
	33.7 - 39.0	6.625 - 6.765	6.453	6.499 ¹	2-3/8 EUE	72577RR	72477RR
8-5/8	20.0 - 28.0	8.017 - 8.191	7.750	-	3-1/2 EUE	72581RR	72481RR
	24.0 - 40.0	7.725 - 8.097	7.500	-	3-1/2 EUE	72585RR	72485RR
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	-	3-1/2 EUE	72596RR	72496RR
	43.5 - 53.5	8.535 - 8.755	8.250	-	3-1/2 EUE	72595RR	72495RR
10-3/4	32.75 - 51.0	9.850 - 10.192	9.625	-	3-1/2 EUE	72501RR	72401RR
	51.0 - 65.7	9.560 - 9.850	9.312	9.374 ¹	3-1/2 EUE	72510RR	72410RR
11-3/4	42.0 - 71.0	10.586 - 11.084	10.375	10.500 ¹	3-1/2 EUE	72511RR	72411RR
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	-	3-1/2 EUE	72513RR	72413RR
14	82.5 - 101.5	12.600 - 12.876	12.438	12.500 ¹	3-1/2 EUE	72514RR	72414RR
16	65.0 - 109.0	14.688 - 15.250	14.438	-	4-1/2 IF TOOL JOINT	72516RR	-
18-5/8	87.5 - 117.5	17.439 - 17.755	17.000	-	4-1/2 IF TOOL JOINT	72518RR-XBEE	-
20	133.0 - 169.0	18.376 - 18.730	18.000	-	4-1/2 IF TOOL JOINT	72520RR-XBEE	-

¹Maximum OD is across retracted drag blocks.

OPTIONS: RR (Right-Hand Set, Right-Hand Release), LR (Left-Hand Set, Right-Hand Release)

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



SPRING LOADED RETRIEVING TOOL

The **Spring Loaded Retrieving Tool** is used to run and retrieve the AS Retrievable Bridge Plug.

Special Features

- Mill-toothed shoe
- Sturdy design
- Left-hand release standard
- Straight set down to re-attach
- Right-hand release available

Product Specifications

Size (inches)	Tool OD (inches)	Thread Connections Box Up	Part Number
3-1/2	2.750	1.900 EUE	57735
4	3.125	1.900 EUE	57740
4-1/2	3.625	2-3/8 EUE	57741
	3.656	2-3/8 EUE	57744
	3.750	2-3/8 EUE	57745
5	4.125	2-3/8 EUE	57750
	4.000	2-3/8 EUE	57752
5-1/2	4.500	2-3/8 EUE	57755
		2-7/8 EUE	57756
6	5.000	2-3/8 EUE	57760
6-5/8	5.437	2-7/8 EUE	57765
7	5.875	2-7/8 EUE	57770
7-5/8	6.375	2-7/8 EUE	57775
8-5/8	7.500	3-1/2 EUE	57785
9-5/8	8.250	3-1/2 EUE	57795
		4-1/2 EUE	57796
10-3/4	9.312	2-7/8 EUE	57701
		3-1/2 EUE	57710
11-3/4	10.370	4-1/2 EUE	57711
13-3/8	11.750	4-1/2 EUE	57713
14	12.000	4-1/2 IF TOOL JOINT	57714
16	14.000	4-1/2 IF TOOL JOINT	57716-XBEE
18-5/8	16.750	4-1/2 IF TOOL JOINT	57718-XBEE
20	17.500	4-1/2 IF TOOL JOINT	57720-XBEE

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





WIRELINE ADAPTER KIT - FOR ASW RETRIEVABLE BRIDGE PLUG

The **Wireline Adapter Kit (WLAK)** for the **ASW Retrievable Bridge Plug** is used to set the ASW Retrievable Bridge Plug on electric wireline or with a hydraulic setting assembly on tubing. This WLAK is designed to be used on a Baker E-4 wireline powder charge, a hydraulic setting assembly, or any setting assembly with the same configuration.

The WLAK automatically disconnects from the AS Bridge Plug during packer setting to be easily retrieved and prepared to run again.

Product Specifications

Size (inches)	Tool OD (inches)	Wireline Setting Tool Box Up	Part Number
3-1/2	2.750	BAKER E-4, #05	72335
4-1/2	3.750	BAKER E-4, #10	72345
	3.620	BAKER E-4, #10	72341
	3.650	BAKER E-4, #10	72344
5-1/2	4.500	BAKER E-4, #20	72355WLAK
6-5/8	5.440	BAKER E-4, #20	72365
7	5.875	BAKER E-4, #20	72370
8-5/8 - 14	6.000	BAKER E-4, #20	72385

NOTE: Other sizes and connections available upon request.





TYPE T SQUEEZE PACKER

The **Type T Squeeze Packer** is a versatile, easy to use tension set tool which holds differential pressure from above or below. This packer is designed to run, set, reset and retrieve easily, even under adverse conditions. This packer can be set at any depth and is used when insufficient weight is available to set a compression packer. This packer is ideal for squeeze cementing, casing testing, stimulation treatments and straddle operations using a retrievable bridge plug.

An SC Tension Unloader is generally run above this packer allowing pressure equalization before release. The SC Tension Unloader also provides a by-pass when running and retrieving to minimize swabbing of the elements.

This packer features a full bore that minimizes the potential for screening out during fracturing, does not restrict the flow rates and allows the use of through-tubing tools without pulling the packer.

This packer also features an emergency release system that uses a high-ratio left-hand thread. Applying right-hand rotation of the tubing relaxes the packing elements and moves the lower cone well away from the slips allowing the slips to fully retract.

Special Features

- Holds pressure from above or below
- Safety release allows circulation around the slips
- Full opening
- Optional setting configuration
- Bi-directional slips





Type T Squeeze Packer Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
2-7/8	6.4 - 6.5	2.375 - 2.441	2.250	-	0.75	1.660 EUE	62125RM
4	9.5 - 11.0	3.476 - 3.548	3.250	-	1.63	2-3/8 EUE	62140RM
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	2.00	2-3/8 EUE	62145RM
	15.1 - 16.9	3.740 - 3.826	3.594	-	1.63	2-3/8 EUE	62143RM
5	13.0 - 18.0	4.276 - 4.494	4.125	-	2.00	2-3/8 EUE	62150RM
	18.0 - 20.8	4.156 - 4.276	4.000	-	2.00	2-3/8 EUE	62152RM
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	-	2.00	2-3/8 EUE	62155RM
	20.0 - 23.0	4.670 - 4.778	4.500	-	2.00	2-3/8 EUE	62157RM
6	14.0 - 20.0	5.352 - 5.552	5.188	-	2.00	2-3/8 EUE	62160RM
6-5/8	24.0 - 28.0	5.791 - 5.921	5.625	-	2.50	2-7/8 EUE	62165RM
7	17.0 - 26.0	6.276 - 6.538	6.000	6.057 ¹	2.50	2-7/8 EUE	62171RM
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	2-7/8 EUE	62170RM
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	-	2.50	2-7/8 EUE	62175RM
	33.7 - 39.0	6.625 - 6.765	6.453	-	2.50	2-7/8 EUE	62177RM
8-5/8	20.0 - 28.0	8.017 - 8.191	7.750	-	3.00	3-1/2 EUE	62186RM
	28.0 - 40.0	7.725 - 8.097	7.500	-	3.00	3-1/2 EUE	62185RM
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	-	3.00	3-1/2 EUE	62195RM
	43.5 - 53.5	8.535 - 8.755	8.250	-	3.00	3-1/2 EUE	62196RM
10-3/4	32.75 - 55.5	9.760 - 10.192	9.500	-	4.00	4-1/2 EUE	62110RM
	60.7 - 85.3	9.156 - 9.660	9.000	-	4.00	4-1/2 EUE	62110XRM
13-3/8	48.0 - 77.0	12.275 - 12.715	12.000	-	4.00	4-1/2 EUE	62113RM
16	65.0 - 109.00	14.688 - 15.250	14.438	-	5.00	6-5/8 FULL HOLE TOOL JOINT	62116RM
20	133.0 - 169.0	18.376 - 18.730	18.000	-	5.00	6-5/8 FULL HOLE TOOL JOINT	62120RM

¹Maximum OD is across retracted drag blocks.

OPTIONS: RS (Right-Hand Set w/Automatic J-Slot), RM (Right-Hand Set w/Manual J-Slot), LS (Left-Hand Set w/Automatic J-Slot), LM (Left-Hand Set w/Manual J-Slot)

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



SC TENSION UNLOADER

The **SC Tension Unloader** provides a means of equalizing tubing and annulus pressures when used with a tension packer. It also serves as a by-pass to allow fluid to pass through the mandrel of the packer while running the tubing string in and out of the well.

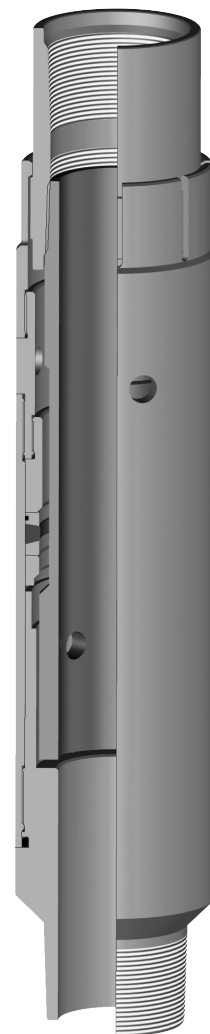
Special Features

- Apply set-down weight to open, and tension to close
- Unloads pressure from either direction
- May be run in open or closed position
- Bonded seal allows repeated opening
- Transmits torque for packer operations

Product Specifications

Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
7/8	2.250	0.88	1.660 EUE	52504
1-5/8	3.250	1.63	2-3/8 EUE	52506
2-3/8	3.750	2.00	2-3/8 EUE	52520
2-7/8	4.500	2.50	2-7/8 EUE	52525
3-1/2	5.250	3.00	3-1/2 EUE	52535
4-1/2	6.250	4.00	4-1/2 EUE	52545

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





DA-II UNLOADER

The **DA-II Unloader** is designed as a high-pressure accessory for compression set packers. This unloader is run above the packer in the open position. After the packer is run to setting depth, the procedures required to set the packer will automatically close the unloader. The J-slot locks in both the open and closed positions. With the packer set and the unloader closed, well operations may proceed.

When run above a compression set packer, this unloader is opened by rotating the tubing 1/4 turn and picking up (standard is right-hand close, right-hand open). After opening the unloader, allow differential pressure to equalize before releasing the packer below.

Special Features

- Standard J-slot locks in open and closed positions
- Standard J-slot is right-hand close, right-hand open
- J-slot is available in various configurations

Product Specifications

Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
4-1/2	3.750	2.00	2-3/8 EUE	53145
5-1/2	4.500	2.50	2-7/8 EUE	53155

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





TYPE C PERFORATION WASH TOOL

The **Type C Perforation Wash Tool** is for washing or acidizing perforations in casing and sand screens. It is also used for checking non-perforations, to verify injection rates and penetration, or for opening voids behind the casing for more effective gravel pack operations. The straddle interval is easily field converted from one foot (1ft) to any distance by simply adding tubing above the bottom cups.

Special Features

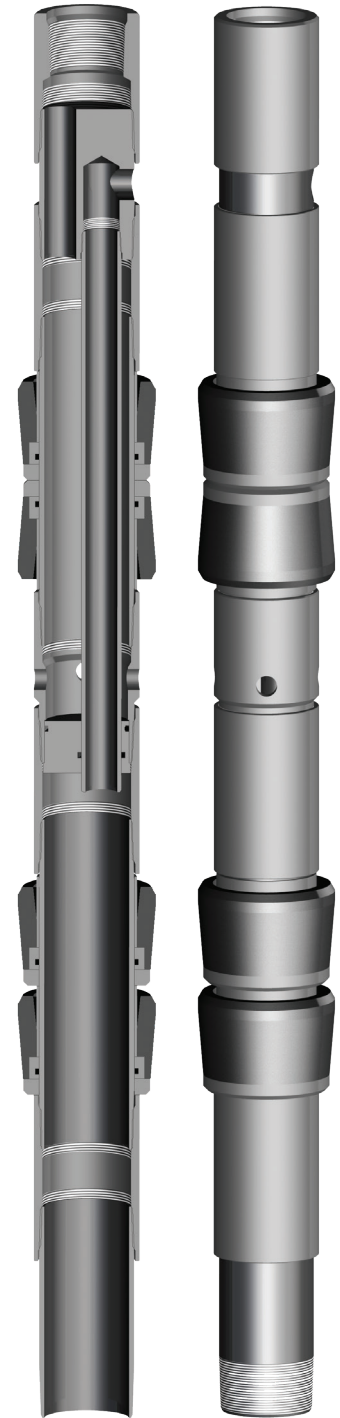
- Straddle-spacing easily adjusted in the field
- Reverse circulate without manipulation
- No ball and seat required

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)				
3-1/2	9.2 - 10.2*	2.922 - 2.992	2.810	1.900 NUE	46035
4	9.5 - 13.4*	3.340 - 3.548	3.250	1.900 NUE	46040
4-1/2	9.5 - 11.6	4.000 - 4.090	3.690	1.900 NUE	46045
5	13.0 - 15.0	4.408 - 4.494	4.000	1.900 NUE	46050
	18.0 - 20.3	4.184 - 4.276	4.000	1.900 NUE	46051
5-1/2	13.0 - 20.0	4.778 - 5.044	4.625	2-7/8 EUE	46055
6-5/8	20.0 - 24.0	5.921 - 6.049	5.750	3-1/2 EUE / 4-1/2 STC	46065
7	20.0 - 29.0	6.184 - 6.456	6.000	3-1/2 EUE	46070
9-5/8	29.3 - 53.5*	8.535 - 9.063	8.450	3-1/2 EUE	46095
10-3/4	40.5 - 55.5*	9.760 - 10.050	9.710	3-1/2 EUE	46010

* May require cup change.

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





STRADASNAP PACKER

The **Stradasnap Packer** consists of a modified Snapset II Packer combined with an AS-III Packer. A Stradasnap Packer is used for selectively treating short intervals of casing perforations to evenly break down the entire formation. The span covered is determined by the spacing between the two sets of packing elements and is adjustable to any distance down to eighteen inches.

The bottom of the Stradasnap Packer is plugged by using an Equalizing Standing Valve (or similar device). A Spot Control Valve or Acid Valve can be run above the Stradasnap Packer to control the tubing hydrostatic pressure across the perforations and contain the acid in the tubing when moving the packer to another perforation.

After locating the Stradasnap Packer across the lower most perforation, the Stradasnap Packer is set and the perforation is treated. Straight pick-up of the tubing releases the Stradasnap Packer to be moved up to the next perforation. Repeat the setting procedure to reset. When retrieving the Stradasnap Packer, retrieve the Spot Control Valve or Acid Valve so that tubing fluid can be dumped through the ports between the packing elements to prevent pulling a wet string.

Special Features

- Combination of existing packers
- Straight pull release
- Adjustable spacing with pup joint

Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	1.94	2-3/8 EUE	64545
5	11.5 - 15.0	4.408 - 4.560	4.125	4.220 ¹	1.94	2-3/8 EUE	64550
	18.0 - 21.0	4.154 - 4.276	4.000	-	1.94	2-3/8 EUE	64552
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	-	1.94	2-3/8 EUE	64555
				-	2.38	2-7/8 EUE	64556
6-5/8	24.0 - 32.0	5.675 - 5.921	5.500	-	2.50	2-7/8 EUE	64565
7	17.0 - 26.0	6.276 - 6.538	6.000	6.062 ¹	2.50	2-7/8 EUE	64572
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	2-7/8 EUE	64570
				-	3.00	3-1/2 EUE	64573
9-5/8	43.5 - 53.5	8.535 - 8.755	8.250	-	4.00	4-1/2 EUE	64595

¹ Maximum OD is across retracted drag blocks.

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





HD ABANDONMENT PACKER

The **HD Abandonment Packer** is a heavy duty service packer ideally suited for all types of squeeze cementing, formation fracturing, high pressure acidizing, etc. This packer is a large opening compression set packer with hydraulic button-type hold down. This packer withstands high pressure from above or below and uses a 3-element packing system, J-slot, and a drag block mechanism for easy setting. This packer

has a built-in unloader which circulates across the hold down buttons to improve retrievability and run in performance

Special Features

- Heavy duty mandrels for high load capacity
- Extra lower slips to distribute hanging load

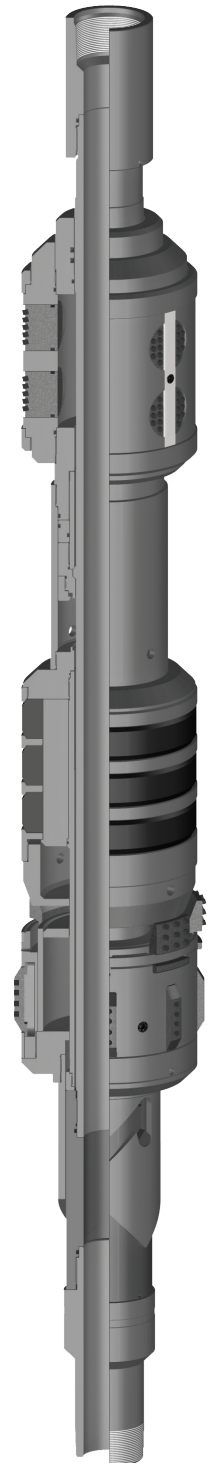
Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
6-5/8	24.0 - 32.0	5.675 - 5.921	5.500	-	2.50	3-1/2 IF TOOL JOINT	61565-XBEC
7	17.0 - 26.0	6.276 - 6.538	6.000	6.062 ¹	2.50	3-1/2 IF TOOL JOINT	61572-XBEC
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	3-1/2 IF TOOL JOINT	61570-XBEC
7-5/8	33.7 - 39.0	6.625 - 6.765	6.453	6.500 ¹	2.50	3-1/2 IF TOOL JOINT	61576RS-XBEC
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	-	3.50	4-1/2 EUE	61596HD
						4-1/2 IF TOOL JOINT	61596-XBEE
	43.5 - 53.5	8.535 - 8.755	8.250	-	3.50	4-1/2 EUE	61595HD
						4-1/2 IF TOOL JOINT	61595-XBEE
10-3/4	32.75 - 45.5	9.950 - 10.192	9.700	-	3.50	4-1/2 IF TOOL JOINT	61501-XBEE
	51.0 - 65.7	9.560 - 9.850	9.312	9.374 ¹	3.50	4-1/2 IF TOOL JOINT	61510-XBEE
	65.7 - 91.2	9.032 - 9.560	8.813	-	3.50	4-1/2 IF TOOL JOINT	61599-XBEE
11-3/4	42.0 - 65.0	10.682 - 11.084	10.438	10.500 ¹	3.50	4-1/2 IF TOOL JOINT	61511-XBEE
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	-	3.50	4-1/2 EUE	61513HD
						4-1/2 EUE	61513HD-YBAG
						4-1/2 IF TOOL JOINT	61513LS-XBEE
						4-1/2 IF TOOL JOINT	61513-XBEE

¹ Maximum OD is across retracted drag blocks.

OPTIONS: LM (Left-Hand Manual), LS (Left-Hand Auto), RM (Right-Hand Manual), RS (Right-Hand Auto)

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





ABANDONMENT VALVE

The **Abandonment Valve** provides a means for temporarily abandoning a well without tripping out a workstring. This valve is run in conjunction with a heavy duty service packer. The Abandonment Valve and packer are designed to allow heavy loads to hang through them and thus allowing a workstring to hang below during abandonment. The most common use of the Abandonment Valve and packer combination is offshore for storm abandonment, but can also be used for working on BOP's during drilling without tripping the drill string out.

This valve uses a colleted sliding valve (lower collet) that is opened and closed by the disconnect and reconnect operations. The valve is designed so that the flow slots in the valve line up with the flow slots in the valve case to allow for higher rates of circulation without damaging the valve.

This valve uses a colleted latch that has a left-hand buttress thread allowing easy insertion of the latch while providing a strong connection. The colleted latch is supported during loading to ensure the latch threads stay completely engaged. All external threads are locked with set screws to ensure against backing off during packer setting.

Special Features

- Right-hand release
- Straight set down re-attachment
- 2.75" ID with Pump-Out Plug removed
- Screw-on casing centralizer ring

Product Specifications

Size (inches)	Tool OD (inches)	Thread Connections Box Up / Pin Down	Part Number
3-5/8	3.600*	2-3/8 IF TOOL JOINT	61736
5-1/8	5.125*	3-1/2 IF TOOL JOINT	61751
6-1/4	6.250*	4-1/2 IF TOOL JOINT	61762

* OD of centralizer ring is larger than the basic tool OD.

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.

Centralizer Sizes

Casing Size (inches)	Centralizer OD (inches)
7	5.75
9-5/8	8.13
10-3/4	9.25
11-3/4	10.25
13-3/8	11.63
18-5/8	16.75





BALL ABANDONMENT VALVE

The **Ball Abandonment Valve** provides a means for temporarily abandoning a well without tripping out a workstring. The valve is run in conjunction with a heavy duty service packer. The Ball Abandonment Valve and Packer are designed to allow heavy loads to hang through them and thus allowing a workstring to hang below during abandonment. The most common use of the Ball Abandonment Valve and Packer combination is offshore for storm abandonment, but can also be used for working on BOP's during drilling without tripping the drill string out.

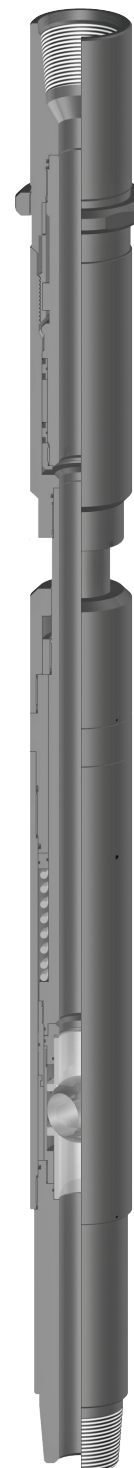
The Ball Abandonment Valve uses a ball valve that is opened and closed by raising and lowering the workstring. The ball valve is designed to allow full movement

through the workstring and allows for higher rates of circulation without damaging the valve.

The Ball Abandonment Valve uses a colleted latch that has a left-hand buttress thread that allows easy insertion of the latch while providing a strong connection. The colleted latch is supported during loading to ensure the latch threads stay completely engaged. All external threads are locked with set screws to ensure against backing off during packer setting.

Special Features

- Full opening through ball valve
- Right-hand release, straight set down to re-attach



Product Specifications

Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
6-1/4	6.500*	2.70	4-1/2 IF TOOL JOINT	62262

* OD of centralizer ring is larger than the basic tool OD.

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.

Centralizer Sizes

Casing Size (inches)	Centralizer OD (inches)
9-5/8	8.13
10-3/4	9.25
11-3/4	10.25
13-3/8	11.63



ABANDONMENT PACKER ACCESSORIES

D&L has accessories available to run in conjunction with the Abandonment Packer: a High Load Swivel and a Plug Catcher.

The **High Load Swivel** allows an Abandonment Packer (ASI-X Design) to be unset with pipe weight hanging below. This swivel can be rotated with up to 80,000 lbs. hanging through it.

The **Pump-Out Plug Catcher** is designed to catch the Pump-Out Plug in the Abandonment Valve while maintaining a large flow area around the plug.



High Load Swivel



Plug Catcher

Product Specifications

Tool Description	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
High Load Swivel	6.250	3.00	4-1/2 IF TOOL JOINT	61662
Plug Catcher	6.500	1.75	4-1/2 IF TOOL JOINT	61663

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



MODEL "H" HYDRAULIC SETTING TOOL

The **Model "H" Hydraulic Setting Assembly (HST)** is a hydraulic setting tool designed for setting packers and plugs without pipe manipulations. It is used to set packers and plugs that are normally set with a Model "E-4" Wireline Pressure Setting Assembly (or similar wireline setting equipment). The same adapter kit that is used on wireline can be used with the Model "H" HST.

The Model "H" HST and packer (or plug) is run in on the tubing to the desired setting depth and a ball is dropped to the HST. Pressure is applied to close the fill ports, which also opens the setting pistons to pressure. As pressure is applied, force is transmitted to the packer (or plug) to set. Tubing tension can also be applied to supplement the setting force generated by the pressure applied.

The standard setting tool comes with three pistons, but additional pistons can be added to reduce setting pressure.

Special Features

- Large internal by-pass
- Tubing fills automatically as HST is run in the hole
- Premature setting is prevented by means of a shear screw in the cross link sleeve
- Ported top sub permits circulation through the HST
- Use existing wireline adapter kits



Product Specifications

Size (inches)	Tool Max PSI	Max Pull (lbs)	Tool OD (inches)	Total Effective Piston Area (in ²)	Connection		Part Number
					Top	Bottom (Baker E-4)	
#05	10,000	31,000	1.718	1.49	1.315 EUE	SIZE 05	39105
#10	10,000	75,000	2.750	3.44	1.900 EUE	SIZE 10	39110-3
				6.88	1.900 NUE	SIZE 10	39110
#20	6,000	120,000	3.81	13.980	2-3/8 EUE	SIZE 20	39120-2
	4,000	120,000	3.81	20.940	2-3/8 EUE	SIZE 20	39120-3

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



LC HYDRAULIC SETTING TOOL

The **LC Hydraulic Setting Tool (HST)** is used to set packers and plugs on tubing that are normally set on wireline. This allows setting in high-angle wells or deviated wells where it is difficult to use wireline equipment. The LC HST allows for packers and plugs to be set with a combination of hydraulic and mechanical forces. This can reduce the setting pressure needed by supplementing the set with tubing tension. A single size LC HST may be used to set a multitude of packer sizes by simply attaching the proper size LC Hydraulic Adapter Kit.

Special Features

- Heavy-duty design
- Multiple setting chambers for lower setting pressures
- Operable in heavy mud systems
- Can be equipped to operate in high temperatures
- Circulation through the tool during run in

Product Specifications

Tool	Setting Area (in ² /Cylinder)	Tool OD (inches)	Tool ID (inches)	Thread Connection Box Up / Pin Down	Part Number
LC-15	4.70	3.718	1.50	2-7/8 EUE	39415
LC-20	4.60	4.375	2.00	3-1/2 IF TOOL JOINT	39420
LC-20HD	4.60	4.375	1.75	3-1/2 IF TOOL JOINT	39420HD

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



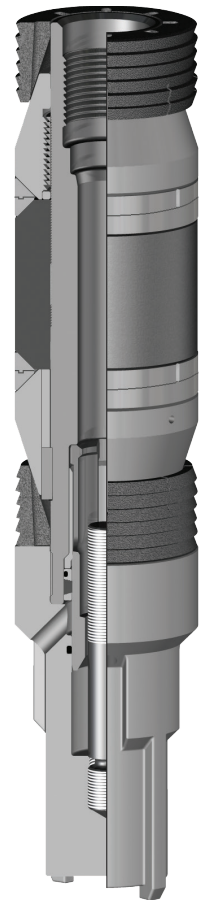


CEMENT RETAINER

The **Cement Retainer** is a drillable packer that provides the end user with a tool that will consistently contain well pressures at elevated temperatures and pressures. This tool is designed to be used for remedial cementing operations and light service applications. This tool permits faster removal from the well with either rotary or cable tool methods due to its compact size and the selection of high quality construction materials.

Special Features

- Surface controlled valve
- Allows pressure testing before squeeze
- Valve automatically closes when the stinger is removed, locking in the squeeze pressure
- Valve protects sensitive zones in low fluid wells
- Simple conversion to bridge plug
- Mechanical or wireline set available
- Components rotationally locked for easy drillout



**Wireline Set
Cement Retainer**

Product Specifications

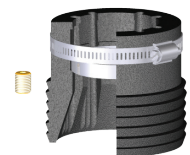
Casing		Recommended Hole Size (inches)	Tool OD (inches)	Part Number	
Size (inches)	Weight (lbs/ft)			Mechanical Set	Wireline Set
4-1/2	9.5 - 15.1	3.826 - 4.090	3.612	84045MS	84045WS
5	11.5 - 18.0	4.276 - 4.560	3.937	84050MS	84050WS
5-1/2	14.0 - 23.0	4.670 - 5.012	4.315	84055MS	84055WS
6-5/8	17.0 - 32.0	5.675 - 6.135	5.375	84065MS	84065WS
7	17.0 - 35.0	6.004 - 6.538	5.680	84070MS	84070WS
7-5/8	20.0 - 39.0	6.625 - 7.125	6.313	84075MS	84075WS
8-5/8	24.0 - 52.0	7.435 - 8.097	7.125	84085MS	84085WS
9-5/8	29.3 - 58.4	8.435 - 9.063	8.125	84095MS	84095WS
10-3/4	32.75 - 60.7	9.660 - 10.192	9.437	84010MS	84010WS
11-3/4	38.0 - 60.0	10.772 - 11.150	10.437	84011MS	84011WS
13-3/8	48.0 - 72.0	12.347 - 12.715	12.000	84013MS	84013WS

OPTIONS: MS (Mechanical Set), WS (Wireline Set)

NOTE¹: Conversion Kits are available for converting either way.

NOTE²: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.

NOTE³: Not compatible with setting tools from other manufacturers.



**Mechanical
Slip Kit**



CR BRIDGE PLUG

The **CR Bridge Plug** provides the end user with tools that will consistently contain well pressures at elevated temperatures and pressures. This plug permits faster removal from the well with either rotary or cable tool methods due to its compact size and the selection of high quality construction material.

The short, compact, interlocked construction assures the user that the CR Bridge Plug will provide faster, safer run-in, dependable set and pack-off and hold pressure that is safe for the casing weight and grade. The interlock construction and compact size requires minimal material removal during drill out. The outside diameter of these products has been held to a minimum to provide maximum tool-to-casing clearance for

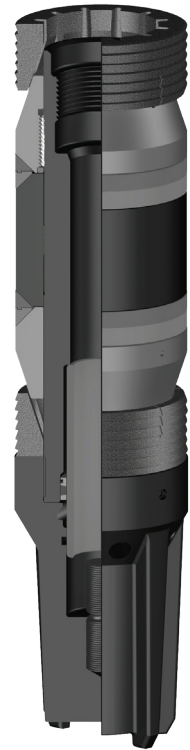
safe running and maximum fluid by-pass area during displacement procedures even in heavy mud systems.

A Wireline Adapter Kit (WLAK) and Hydraulic Setting Tool are used for setting CR Bridge Plugs.

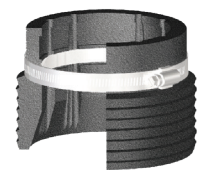
NOTE: The CR Bridge Plug is designed to provide a temporary wellbore seal. For a permanent wellbore seal, cement must be set on top of the plug.

Special Features

- Convertible to Cement Retainer
- Sets on wireline or on tubing with mechanical setting tool



Wireline Set
Cement Retainer



Mechanical
Slip Kit

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Part Number	
Size (inches)	Weight (lbs/ft)			Mechanical Set	Wireline Set
4-1/2	9.5 - 15.1	3.826 - 4.090	3.612	84245MS	84245WS
5	11.5 - 18.0	4.276 - 4.560	3.937	84250MS	84250WS
5-1/2	14.0 - 23.0	4.670 - 5.012	4.315	84255MS	84255WS
6-5/8	17.0 - 32.0	5.675 - 6.135	5.375	84265MS	84265WS
7	17.0 - 35.0	6.004 - 6.538	5.680	84270MS	84270WS
7-5/8	20.0 - 39.0	6.625 - 7.125	6.313	84275MS	84275WS
8-5/8	24.0 - 52.0	7.435 - 8.097	7.125	84285MS	84285WS
9-5/8	29.3 - 58.4	8.435 - 9.063	8.125	84295MS	84295WS
10-3/4	32.75 - 60.7	9.660 - 10.192	9.437	84210MS	84210WS
11-3/4	38.0 - 60.0	10.772 - 11.150	10.437	84211MS	84211WS
13-3/8	48.0 - 72.0	12.347 - 12.715	12.000	84213MS	84213WS

OPTIONS: MS (Mechanical Set), WS (Wireline Set)

NOTE₁: Conversion Kits are available for converting either way.

NOTE₂: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.

NOTE₃: Not compatible with setting tools from other manufacturers.



CIW BRIDGE PLUG

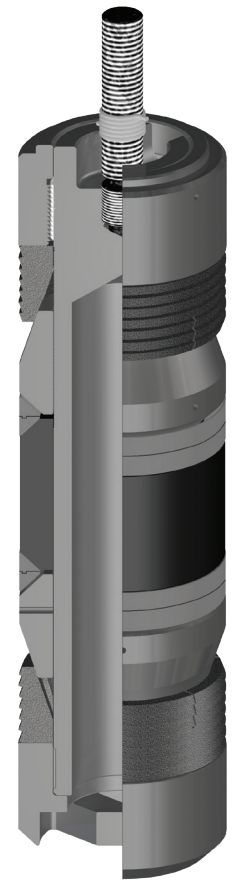
The **CIW Bridge Plug** is designed to have excellent running characteristics and secure sets. This plug can be set on different types of Wireline Pressure Setting Tools as well as with Hydraulic Setting Tools. This plug is designed for rapid drill-out while maintaining sufficient strength during the set. It is designed for high differential pressures and temperatures up to 250°F with standard Nitrile element and O-ring. Different elastomers are available for higher temperatures.

The short, compact, interlocked construction assures the CIW Bridge Plug will provide faster, safer run-in, dependable set and pack-off, and hold

pressure that is safe for the casing weight and grade. The interlock construction and compact size requires minimal material removal during drill out.

Special Features

- Electric, wireline or hydraulic set
- Drillable, cast iron construction
- One piece break-apart slips
- Rubber extrusion resisting backups on elements
- Sets with common setting sleeves
- Locking mechanism for ease in drilling multiple plugs



Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Part Number
Size (inches)	Weight (lbs/ft)			
3-1/2	7.7 - 10.2	2.922 - 3.068	2.750	85035
4-1/2	9.5 - 15.1	3.826 - 4.090	3.613	85045
5-1/2	13.0 - 23.0	4.670 - 5.044	4.315	85055
7	17.0 - 35.0	6.004 - 6.538	5.680	85070
7-5/8	20.0 - 39.0	6.625 - 7.125	6.312	85075
8-5/8	24.0 - 52.0	7.435 - 8.097	7.125	85085
9-5/8	29.3 - 61.1	8.375 - 9.063	8.125	85095
10-3/4	32.75 - 60.7	9.660 - 10.192	9.437	85010
11-3/4	38.0 - 60.0	10.772 - 11.150	10.437	85011
13-3/8	48.0 - 72.0	12.347 - 12.715	12.000	85013
16	65.0 - 128.0	14.438 - 15.250	14.125	85016

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



WIRELINER ADAPTER KIT - FOR CEMENT RETAINER & CR BRIDGE PLUG

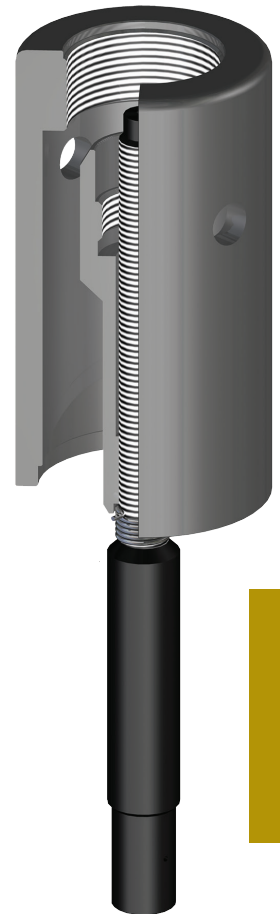
The **Wireline Adapter Kit (WLAK) for Cement Retainers and CR Bridge Plugs** is used to set Cement Retainers and CR Bridge Plugs on electric wireline or with a hydraulic setting assembly on tubing. The WLAK is designed to be used on a Baker E-4 wireline powder charge or hydraulic setting assembly or any setting assembly with the same configuration.

The WLAK automatically disconnects from the Bridge Plug during packer setting to be easily retrieved and prepared to run again.

Product Specifications

Size (inches)	Tool OD (inches)	Wireline Setting Tool Box Up	Part Number
4-1/2	3.500	BAKER E-4, #10	52345
5-1/2	4.000	BAKER E-4, #20	52355
7	5.688	BAKER E-4, #20	52370
9-5/8	8.125	BAKER E-4, #20	52395

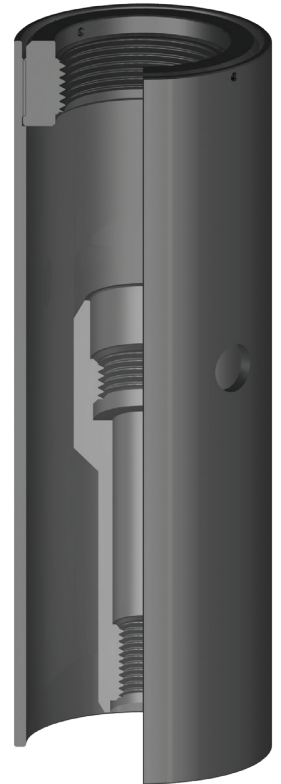
NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





WIRELINER ADAPTER KIT - FOR CIW BRIDGE PLUG

The **Wireline Adapter Kit (WLAK) for CIW Bridge Plugs** is used to set CIW Bridge Plugs on electric wireline or with a hydraulic setting assembly on tubing. The WLAK is designed to be used on a Baker E-4 wireline powder charge or hydraulic setting assembly, but can be used with any setting assembly with the same configuration.



Product Specifications

Size (inches)	Tool OD (inches)	Wireline Setting Tool Box Up	Part Number
3-1/2	2.600	BAKER E-4, #05	85535
4-1/2	3.500	BAKER E-4, #10	85545
5-1/2	4.240	BAKER E-4, #20	85555
7	5.250	BAKER E-4, #20	85570
8-5/8	6.750	BAKER E-4, #20	85585
9-5/8	7.750	BAKER E-4, #20	85595
10-3/4	8.750	BAKER E-4, #20	85510
11-3/4	10.200	BAKER E-4, #20	85511
13-3/8	11.000	BAKER E-4, #20	85513
16	13.500	BAKER E-4, #20	85516

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



DLT RETRIEVABLE PACKER

The **DLT Retrievable Packer** is a compression set packer with hydraulic hold down that is designed to provide an extra measure of dependability for rugged service. The hydraulic actuated upper hold-down provides more than the usual surface area to ensure that the packer will not move up the hole. It is ideally suited for high pressure, high temperature service work.

Some unique features of this packer include positive rotational locks on all internal connections, which allow for extreme values of torque (left-hand or right-hand) to be transmitted through the packer. Backup rings on all the o-rings provide for more reliable sealing at high temperature and pressure.

This packer also comes with extra-long top and bottom subs which allow for hydraulic tong make-up and break out.

Special Features

- Hydraulic actuated upper hold down slips
- Positive rotational locks on all internal connections
- Backup rings on all o-rings provide for more reliable sealing at high temperatures and high pressures
- Available with extra-long top and bottom subs allowing hydraulic tong make-up and break out



Service Tools

Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
7	17.0 - 23.0	6.366 - 6.538	6.188	6.200 ¹	2.69	3-1/2 IF TOOL JOINT	68873A
	26.0 - 32.0	6.094 - 6.276	5.954	-	2.69	3-1/2 IF TOOL JOINT	68873B
	32.0 - 38.0	5.920 - 6.094	5.781	-	2.69	3-1/2 IF TOOL JOINT	68873C
	38.0 - 46.4	5.626 - 5.920	5.525	-	2.69	3-1/2 IF TOOL JOINT	68873D
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	-	2.69	3-1/2 IF TOOL JOINT	68875A
	33.7 - 39.0	6.625 - 6.765	6.453	-	2.69	3-1/2 IF TOOL JOINT	68875B
9-5/8	32.3 - 43.5	8.755 - 9.001	8.584	-	3.75	4-1/2 IF TOOL JOINT	68896
	43.5 - 53.5	8.535 - 8.755	8.365	-	3.75	4-1/2 IF TOOL JOINT	68895
	58.4 - 59.4	8.407 - 8.435	8.250	-	3.75	4-1/2 IF TOOL JOINT	68894
10-3/4	51.0 - 55.5	9.760 - 9.850	9.500	-	3.75	4-1/2 IF TOOL JOINT	68810A
	60.7 - 65.7	9.560 - 9.660	9.375	-	3.75	4-1/2 IF TOOL JOINT	68810B
	71.1 - 73.2	9.406 - 9.450	9.125	-	3.75	4-1/2 IF TOOL JOINT	68810C
11-3/4	42.0 - 54.0	10.880 - 11.084	10.625	-	3.75	4-1/2 IF TOOL JOINT	68811A
	60.0 - 71.0	10.586 - 10.772	10.406	-	3.75	4-1/2 IF TOOL JOINT	68811B
13-3/8	48.0 - 77.0	12.275 - 12.715	12.000	-	3.75	4-1/2 IF TOOL JOINT	68813
	80.7 - 92.0	12.031 - 12.215	11.750	-	3.75	4-1/2 IF TOOL JOINT	68813B
14	82.5 - 92.68	12.700 - 12.876	12.500	-	3.75	4-1/2 IF TOOL JOINT	68814A

¹ Maximum OD is across retracted drag blocks.

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



V-III UNLOADER

The **V-III Unloader** is designed as a high-pressure accessory for the DLT Retrievable Packer designed to withstand severe operating conditions. This unloader provides a means of equalizing tubing and annulus pressures as well as a by-pass to allow fluid to pass through the mandrel of the packer while running the tubing string in and out of the well. Circulating can be established to spot fluids to the packer or circulating debris from the hole.

Special Features

- Standard slot locks in open and closed positions
- Standard slot is right-hand close, right-hand open
- Additional J-slot arrangements available

Product Specifications

Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
3-1/2	5.500	2.69	3-1/2 IF TOOL JOINT	52735
4-1/2	7.250	3.75	4-1/2 IF TOOL JOINT	52745

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





STORM VALVE

The **Storm Valve** is designed to run above a compression set packer similar to the DLT Retrievable Packer. The Storm Valve allows the drill pipe or tubing close to the surface to be disconnected without tripping the entire string. It is designed to be used in situations where the rig must be abandoned quickly. It can also be used for changing surface equipment without tripping a drill string. And it will remain closed to provide a secure seal until the drill pipe or tubing is re-connected.

Special Features

- Rugged, field proven design
- Pump-out plug allows full access for wireline and circulation
- Automatic valve operation during disconnect and reconnect operations

Product Specifications

Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
4-3/4	5.469	1.50	3-1/2 IF TOOL JOINT	68210
6-1/8	6.125	2.00	4-1/2 IF TOOL JOINT	68220

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





BUMPER SUB

The **Bumper Sub** is a heavy duty travel joint that is designed to transmit high torque. A hex-shaped mandrel is incorporated in the tool design providing a large contact surface which transmits the torque through the tool. Proven bonded seals are used to provide a seal across the full stroke of the bumper sub.

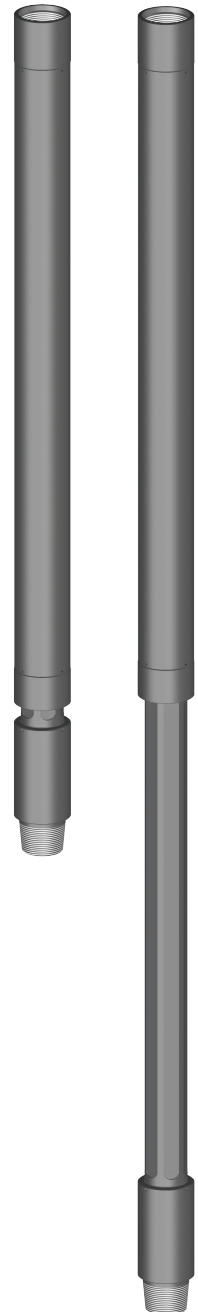
Special Features

- Heavy duty design
- Large contact surfaces to transmit high torque thru tool
- Bonded seals provide seal on full stroke
- Other extended lengths available

Product Specifications

Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
3-1/2	4.750	2.50	3-1/2 IF TOOL JOINT	53335
4-1/2	6.250	3.75	4-1/2 IF TOOL JOINT	53345
	6.500	3.75	4-1/2 IF TOOL JOINT	53346

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





RR SAFETY JOINT

The **RR Safety Joint** is a means for backing off a workstring from tools below. Right-hand rotation and reciprocation is needed to back off the release mechanism. Shear screws hold the mandrel locked until a straight pull shears the screws. This insures the back-off mechanism does not operate until needed.

Special Features

- Shear release to eliminate premature back-off
- Heavy duty construction

Product Specifications

Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
2-3/8	3.250	1.88	2-3/8 EUE	57020
2-7/8	4.500	2.50	2-7/8 EUE	57025
3-1/2	5.250	2.69	3-1/2 IF TOOL JOINT	57035-BEC
4-1/2	6.250	3.75	4-1/2 IF TOOL JOINT	57045-BEE

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





AXIAL INSTALLATION HD PACKER

The **Axial Installation (AI) HD Packer** is a heavy-duty service packer ideally suited for all types of squeeze cementing, formation fracturing, high pressure acidizing, etc. It is a large opening compression set packer with hydraulic button-type hold down. It is set and unset with simple up and down motion. This motion is controlled with a continuous J-slot so multiple settings are possible. This packer withstands high pressure from above or below and uses a 3-element packing system, J-slot, and a drag block mechanism for easy setting. The packer has a built-in unloader which circulates across the hold down buttons to improve retrievability and run in performance.

Special Features

- Heavy duty design
- No rotation at surface
- Built-in unloader



Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	2.00	2-3/8 EUE	62557
	20.0 - 23.0	4.670 - 4.778	4.500	2.00	2-3/8 EUE	62556
6-5/8	24.0 - 32.0	5.675 - 5.921	5.500	2.50	2-7/8 EUE	62565

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



WR BRIDGE PLUG

The **WR Bridge Plug** is a wireline set, wireline retrieve, packer-type bridge plug capable of holding differential pressure from above or below. The WR Bridge Plug is used as a temporary bridge plug for acidizing, fracturing, cementing, casing pressure tests, wellhead replacement, and zone isolation. The WR Bridge Plug utilizes standard wireline or hydraulic setting tools.

Special Features

- Wireline set/ wireline retrieve
- 10,000 psi differential pressure rating above and below the plug
- Bi-directional slips
- Equalization feature prevents premature release against differential pressure

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Top Connection	WLAK	Retrieving Tool	Part Number
Size (inches)	Weight (lbs/ft)						
3-1/2	7.7-10.2	2.922-3.068	2.700	5/8-18 UNF PIN	73535-05	73535RT	73535
4	9.5-11.0	3.476-3.548	3.250	5/8-18 UNF PIN	73535-05	73540RT	73540
	10.46-12.95	3.340-3.476	3.187	5/8-18 UNF PIN	73535-05	73540RT	73541
4-1/2	9.5-13.5	3.920-4.090	3.750	1,000-8 UNC PIN	73545-10	73545RT	73545
	13.5-15.1	3.826-3.920	3.650	1,000-8 UNC PIN	73545-10	73545RT	73544
	15.1-16.6	3.754-3.826	3.625	1,000-8 UNC PIN	73545-10	73545RT	73543
5	11.5-15.0	4.408-4.560	4.125	1,000-8 UNC PIN	73545-10	73545RT	73550
	18.0-21.0	4.154-4.276	3.969	1,000-8 UNC PIN	73545-10	73545RT	73552
5-1/2	13.0-20.0	4.778-5.156	4.625	7/8-14 UNF PIN	73557-20	73557RT	73555
	20.0-23.0	4.670-4.778	4.500	7/8-14 UNF PIN	73557-20	73557RT	73557
	23.0-26.0	4.548-4.670	4.406	7/8-14 UNF PIN	73554-20	73554RT	73554
7	17.0-26.0	6.276-6.538	5.969	7/8-14 UNF PIN	73570-20	73570RT	73570
	26.0-32.0	6.094-6.276	5.875	7/8-14 UNF PIN	73570-20	73570RT	73571

*73035 and 73040 are currently available as reduced pressure rated versions of 73535 and 73540 respectively. 73035 is rated to 6,000 psi below, and 73040 is rated to 4,500 psi below. 73535 and 73540 will both be rated to 10,000 psi above and below, when available.



Service Tools



COMPRESSION UNLOADER

The **Compression Unloader** is designed as a high-pressure accessory for compression set packers. The Unloader is run above the packer pinned in the open or closed position. After the packer is run to setting depth, the procedures required to set the packer will automatically close the unloader. With the packer set and the unloader closed, well operations may proceed.

When run above a compression set packer, the Compression Unloader is opened to allow differential pressure to equalize before releasing the packer below.

Special Features

- The Compression Unloader can be pinned in the open or closed position
- Allows equalizing of tubing/annulus pressure differential
- When pinned in the open position, allows for fluid bypass through the ID of the packer to reduce swabbing of packer elements



Product Specifications

Casing Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
4-1/2	3.500	2.00	2-3/8 EUE	52845
7	5.500	2.867	3-1/2 EUE	52873



LATCH LOCATOR - FOR CEMENT RETAINER

The **Latch Locator for Cement Retainer** is designed to be run on tubing and is used to manipulate the Cement Retainer collet (a.k.a. sleeve valve) during cementing operations. The Latch Locator is designed with a latching mechanism to aid in maintaining connection between the Latch Locator and the Cement Retainer and to give a positive indication of release when removing the Latch Locator from the Cement Retainer.

Product Specifications

Size (inches)	Tool OD (inches)	Thread Connection Box Up	Part Number
4-1/2	3.48	2-3/8 EUE	84545
5-1/2	4.29	2-3/8 EUE	84555
7	5.648	2-7/8 EUE	84570
9-5/8	8.09	2-7/8 EUE	84595
13-3/8	11.737	2-7/8 EUE	84513



NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.



MECHANICAL SETTING TOOL - FOR CEMENT RETAINER

The **Mechanical Setting Tool (MST)** is designed to run and mechanically set a Cement Retainer or converted Bridge Plug at any depth on tubing or drill pipe. Cement Retainers can be set, pressure tested, and squeezed in a single trip.

The MST and Cement Retainer or Bridge Plug are shear pinned together and the slips are held in a retracted position for safer running.

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connection Box Up	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 15.1	3.826 - 4.090	3.750	0.75	2-3/8 EUE	52445
5	11.5 - 18.0	4.276 - 4.560	3.930	0.75	2-3/8 EUE	52450
5-1/2	14.0 - 23.0	4.670 - 5.012	4.500	0.75	2-3/8 EUE	52455
6-5/8	17.0 - 32.0	5.675 - 6.135	5.375	1.12	2-7/8 EUE	52465
7	17.0 - 35.0	6.004 - 6.538	5.500	1.12	2-7/8 EUE	52470
7-5/8	20.0 - 39.0	6.625 - 7.125	5.800	1.12	2-7/8 EUE	52475
8-5/8	24.0 - 52.0	7.435 - 8.097	7.125	1.12	2-7/8 EUE	52485
9-5/8	29.3 - 58.4	8.435 - 9.063	8.125	1.12	2-7/8 EUE	52495
10-3/4	32.75 - 60.7	9.660 - 10.192	9.312	1.12	2-7/8 EUE	52410
11-3/4	38.0 - 60.0	10.772 - 11.150	10.437	1.12	2-7/8 EUE	52411
13-3/8	48.0 - 72.0	12.347 - 12.715	12.000	1.13	2-7/8 EUE	52413



ANCHORS



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ASI-X ANCHOR

The **ASI-X Anchor** is a mechanically set double grip tubing anchor designed to be exceptionally durable and debris tolerant. This anchor is based on the proven ASI-X Packer design, but has been shortened, simplified and does not have a sealing element. This anchor is suited for treating, testing, injecting, pumping wells, and flowing wells, deep or shallow. This anchor is built using durable ASI-X Packer parts making redress both quick and economical.

The double slip design allows the anchor to be left in tension or compression, depending on well conditions and the required application. The J-slot design allows easy setting and releasing; 1/4 turn right-hand set, right-hand release. With the variety of J-body configurations available, this anchor can also be set with

other packers in tandem. This anchor is also equipped with an adjustable straight pickup emergency shear release and when released in this manner, the anchor will reset when moved down the hole.

Special Features

- Based on proven ASI-X Packer design
- Can be set with tension for shallow well applications
- Can be left in tension, compression or neutral
- 1/4 turn right-hand set, 1/4 turn right-hand release
- Additional J-Slot configurations available
- Adjustable emergency shear release



Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
3-1/2	7.7 - 10.2	2.922 - 3.068	2.781	1.25	1.900 NUE	32335
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	32345
	13.5 - 15.1	3.826 - 3.920	3.650	1.94	2-3/8 EUE	32344
5	18.0 - 20.8	4.156 - 4.276	4.00	1.94	2-3/8 EUE	32352
5-1/2	14.0 - 20.0	4.778 - 5.012	4.625	2.38	2-7/8 EUE	32356
	20.0 - 23.0	4.670 - 4.788	4.500	2.38	2-7/8 EUE	32359
	23.0 - 26.0	4.548 - 4.670	4.406	2.38	2-7/8 EUE	32351
7	17.0 - 26.0	6.276 - 6.538	6.000	2.50	2-7/8 EUE	32372
				3.00	3-1/2 EUE	32374
	26.0 - 32.0	6.094 - 6.276	5.875	2.50	2-7/8 EUE	32370
7-5/8	24.0 - 29.7	6.875 - 7.025	6.453	2.50	2-7/8 EUE	32375

NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.
Available with wicker or carbide slips.



DL-CS ANCHOR

The **DL-CS Anchor** is used to anchor downhole equipment from rotating and/or moving up the hole. The anchor is designed to resist up to 12,000 Ft-lbs of torque with a unique cone and slip design while preventing movement up or down hole. It can be set in casing or open hole.

Special Features

- Heavy duty design
- Hex mandrel for torque transmission
- Adjustable shear set and release

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Thread Connection Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)				
5-1/2	13.0 - 23.0	4.670 - 5.044	4.375	2-7/8 IF TOOL JOINT / 2-3/8 IF TOOL JOINT	32255
7	17.0 - 23.0	6.366 - 6.538	6.125	3-1/2 IF TOOL JOINT / NO THREAD	32272
	26.0 - 35.0	6.004 - 6.276	5.875	3-1/2 IF TOOL JOINT / NO THREAD	32270
7-5/8	24.0 - 39.0	6.625 - 7.025	6.375	3-1/2 IF TOOL JOINT / NO THREAD	32275
8-5/8	24.0 - 40.0	7.725 - 8.097	7.500	3-1/2 IF TOOL JOINT / NO THREAD	32285
				4-1/2 IF TOOL JOINT / NO THREAD	32285-XBEE

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Anchors



DRAG BLOCK TUBING ANCHOR/CATCHER

The **Drag Block Tubing Anchor/Catcher** (DB Anchor) is a retrievable positive-action tubing anchor designed to hold the tubing string in tension or compression. It has drag blocks to allow the anchor to be run deeper than conventional drag spring anchors. The anchor prevents movement of the tubing during pumping strokes; and holds it stationary if it should part. The use of a tension tubing anchor increases pump efficiency, reduces rod and tubing wear, and keeps tubing and rods from falling into the well in case of a part.

Special Features

- Enclosed slips
- Rotational release or shear release
- Safety release value easily adjusted

Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	1.94	2-3/8 EUE	32545
5-1/2	13.0 - 20.0	4.778 - 5.044	4.500	4.640 ¹	2.00	2-3/8 EUE	32555
					2.44	2-7/8 EUE	32556
7	17.0 - 32.0	6.094 - 6.538	5.750	5.854 ¹	2.50	2-7/8 EUE	32570
					3.00	3-1/2 EUE	32573
7-5/8	24.0 - 39.0	6.625 - 7.025	6.400	6.404 ¹	2.50	2-7/8 EUE	32575
8-5/8	24.0 - 40.0	7.725 - 8.097	7.500	7.687 ¹	4.00	4-1/2 EUE	32585
9-5/8	32.3 - 53.5	8.535 - 9.001	8.250	-	3.00	3-1/2 EUE	32595-XBAE
				-	4.00	4-1/2 EUE	32595

¹ Maximum OD is across retracted drag blocks.

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





HYDRAULIC TUBING ANCHOR

The **Hydraulic Tubing Anchor** is a hydraulically-activated retrievable anchor designed to hold the tubing string in tension or compression. The Hydraulic Tubing Anchor catcher prevents movement of the tubing during pumping strokes and holds it stationary if it should part. The use of a tubing anchor increase pump efficiency, reduces rod and tubing wear, and keeps tubing and rods from falling into the well in case of a part.

The Hydraulic Tubing Anchor is operated by applying pressure to the tubing. This pressure shears screws that hold the anchor unset. A setting piston drives the slips set while locking the setting force in place. The Hydraulic Tubing Anchor utilizes specially designed slips - heat-treated steel alloy double-acting slips for maximum holding power in tension or compression. Slips are fully enclosed for extra breakage resistance and will be retained if slips break. The Hydraulic Tubing Anchor is retrieved by shearing screws with tension. Shear pins are added in 5,000 lb increments to achieve the desired shear value necessary to release.

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.94	2-3/8 EUE	32445
5	11.5 - 15.0	4.408 - 4.560	4.125	1.94	2-3/8 EUE	32452
	18.0 - 21.0	4.154 - 4.276	4.000	1.94	2-3/8 EUE	32450
5-1/2	13.0 - 23.0	4.670 - 5.044	4.500	2.44	2-7/8 EUE	32455
7	17.0 - 32.0	6.094 - 6.538	5.750	3.00	3-1/2 EUE	32473
				3.88	4-1/2 EUE	32474



Anchors

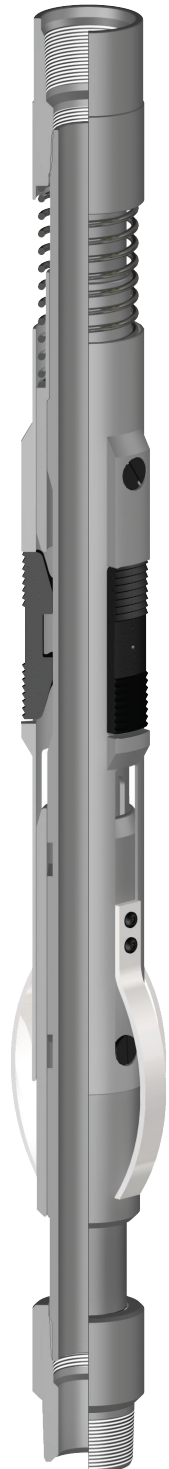


QUARTER TURN REDUCED OD TUBING ANCHOR

The **Quarter Turn Reduced OD Tubing Anchor** is a mechanically set, retrievable, tubing anchor designed to allow increased fluid bypass in the annulus. The anchor is suited for treating, testing, injecting, pumping wells, and flowing wells, deep or shallow. The slip design allows the anchor to be left in tension or compression, depending on well conditions and the required application. The J-slot design allows easy setting and releasing with 1/4 turn right-hand set, right-hand release.

Special Features

- 1/4 turn right-hand set, 1/4 turn right-hand release
- Safety shear release
- Large flow area around tool



Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	1.20	2-3/8 EUE	31545
5-1/2	13.0 - 23.0	4.670 - 5.044	4.500	2.00	2-7/8 EUE	31556
7	23.0 - 35.0	6.004 - 6.366	5.750	2.44	2-7/8 EUE	31570
				2.44	3-1/2 EUE	31573



TM ANCHOR/CATCHER

The **TM Anchor/Catcher** is a retrievable positive action anchor tool to hold tubing strings in tension or compression during pump strokes to prevent tubing buckling. This increases pumping efficiency while reducing rod and tubing wear. This tool also catches the tubing should it part. Stainless steel drag springs employ low stress value to minimize failure under corrosive conditions. If the TM Anchor/Catcher cannot be released with right-hand rotation, it is equipped with a shear release activated by an upward pull.

Special Features

- Stainless steel drag springs
- Enclosed slips
- Rotation or shear release
- Safety release value easily adjusted

Product Specifications

Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	2.00	2-3/8 EUE	32045
	13.5 - 15.1	3.826 - 3.920	3.656	2.00	2-3/8 EUE	32044
5-1/2	13.0 - 23.0	4.670 - 5.044	4.500	2.00	2-3/8 EUE	32055
				2.38	2-7/8 EUE	32056
6-5/8	20.0 - 32.0	5.675 - 6.049	5.500	2.50	2-7/8 EUE	32065
				3.00	3-1/2 EUE	32066
7	17.0 - 32.0	6.094 - 6.538	5.875	2.00	2-3/8 EUE	32071
				2.50	2-7/8 EUE	32070
				3.00	3-1/2 EUE	32073
7-5/8	24.0 - 39.0	6.625 - 7.025	6.400	2.50	2-7/8 EUE	32075
9-5/8	32.3 - 53.5	8.535 - 9.001	8.250	3.00	3-1/2 EUE	32095-BAE
				4.00	4-1/2 EUE	32095

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Anchors



TRILOBITE HYDRO ANCHOR

The **Trilobite Hydro Anchor** is a hydraulically-set, retrievable, tubing anchor / catcher featuring D&L's patent pending slip / cone design. The Trilobite Hydro Anchor utilizes heat-treated steel alloy double-acting slips for maximum holding power in tension or compression. The fully enclosed slips allow for maximum bypass area around the outside of the anchor while maintaining a full open ID through the tubing. This versatile design can be used to route multiple capillary lines or monitoring cables past the anchor and to provide a gas/debris bypass area around the three slips.

The Trilobite Hydro Anchor catcher prevents movement of the tubing during pumping strokes and holds it stationary if it should part. This increases pump efficiency, reduces rod and tubing wear, and keeps tubing and rods from falling into the well in case of a part.

Special Features

- Patent pending, fully enclosed slip/ cone design
- Maximum holding power in tension or compression
- Large flow area around tool
- Full open ID
- Shear release



Product Specifications

Casing		Recommended Hole Size (inches)	Max OD (inches)	Reduced OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
5-1/2	14.0 - 23.0	4.670 - 5.040	4.50	3.67	2.44	2-7/8 EUE	31956
7	17.0 - 32.0	6.094 - 6.538	5.75	4.50	3.00	3-1/2 EUE	31973



TRILOBITE QUARTER TURN ANCHOR

The **Trilobite Quarter Turn Anchor** is a mechanically set retrievable tubing anchor / catcher featuring D&L's patent pending slip / cone design. The Trilobite Quarter Turn Anchor utilizes heat-treated steel alloy double-acting slips for maximum holding power in tension or compression. The fully enclosed slips allow for maximum bypass area around the outside of the anchor while maintaining a full open ID through the tubing. This versatile design can be used to route multiple capillary lines or monitoring cables past the anchor and to provide a gas/debris bypass area around the three slips.

The Trilobite Quarter Turn Anchor catcher prevents movement of the tubing during pumping strokes and holds it stationary if it should part. The use of a tubing anchor increases pump efficiency, reduces rod and tubing wear, and keeps tubing and rods from falling into the well in case of a part.

Special Features

- 1/4 turn right-hand set, 1/4 turn right-hand release
- Patent pending, fully enclosed slip / cone design
- Maximum holding power in tension or compression
- Full open ID
- Large flow area around tool
- Safety shear release



Product Specifications

Casing		Recommended Hole Size (inches)	Max OD (inches)	Reduced OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)						
5	18.0 - 20.8	4.156 - 4.276	4.000	3.67	2.44	2-7/8 EUE	31752
5-1/2	14.0 - 23.0	4.670 - 5.040	4.50	3.67	2.44	2-7/8 EUE	31756
7	26.0 - 32.0	6.094 - 6.276	5.875	3.67	2.44	2-7/8 EUE	31770

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



ESP TUBING CATCHER

The **ESP Tubing Catcher** is a retrievable positive-action tubing catcher designed to run below an ESP to catch the equipment if the tubing string parts. The design includes drag blocks to allow the catcher to be run deeper than conventional drag spring catchers. The catcher features a J-slot design that allows the catcher to be easily set and released without rotating the tubing. A simple up and down movement is all that is required to cycle the catcher to the setting position after running in. Ample stroke length allows plenty of tubing travel to account for tubing movement or when landing the wellhead to avoid inadvertently returning the catcher to the run in position.



Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
Size (inches)	Weight (lbs/ft)					
4-1/2	9.5 – 13.5	3.920 - 4.090	3.750	2.00	2-3/8 EUE	30545C
5-1/2	20.0 – 23.0	4.670 - 4.778	4.500	2.50	2-7/8 EUE	30559C
7	26.0 – 32.0	6.094 - 6.276	5.875	2.50	2-7/8 EUE	30570C



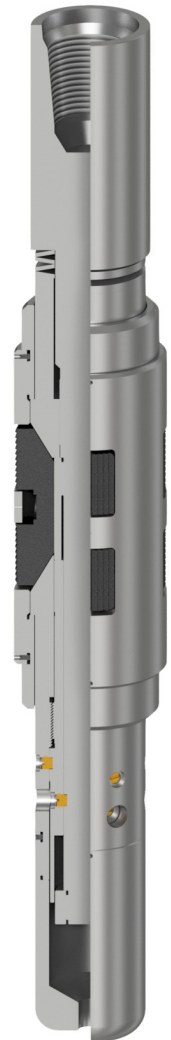
SET DOWN (SD) ANCHOR

The **Set Down (SD) Anchor** is used to anchor downhole equipment from rotating and/or moving up the hole. The anchor is designed to resist torque with a unique cone and slip design. The SD Anchor can be used in open hole applications.

Product Specifications

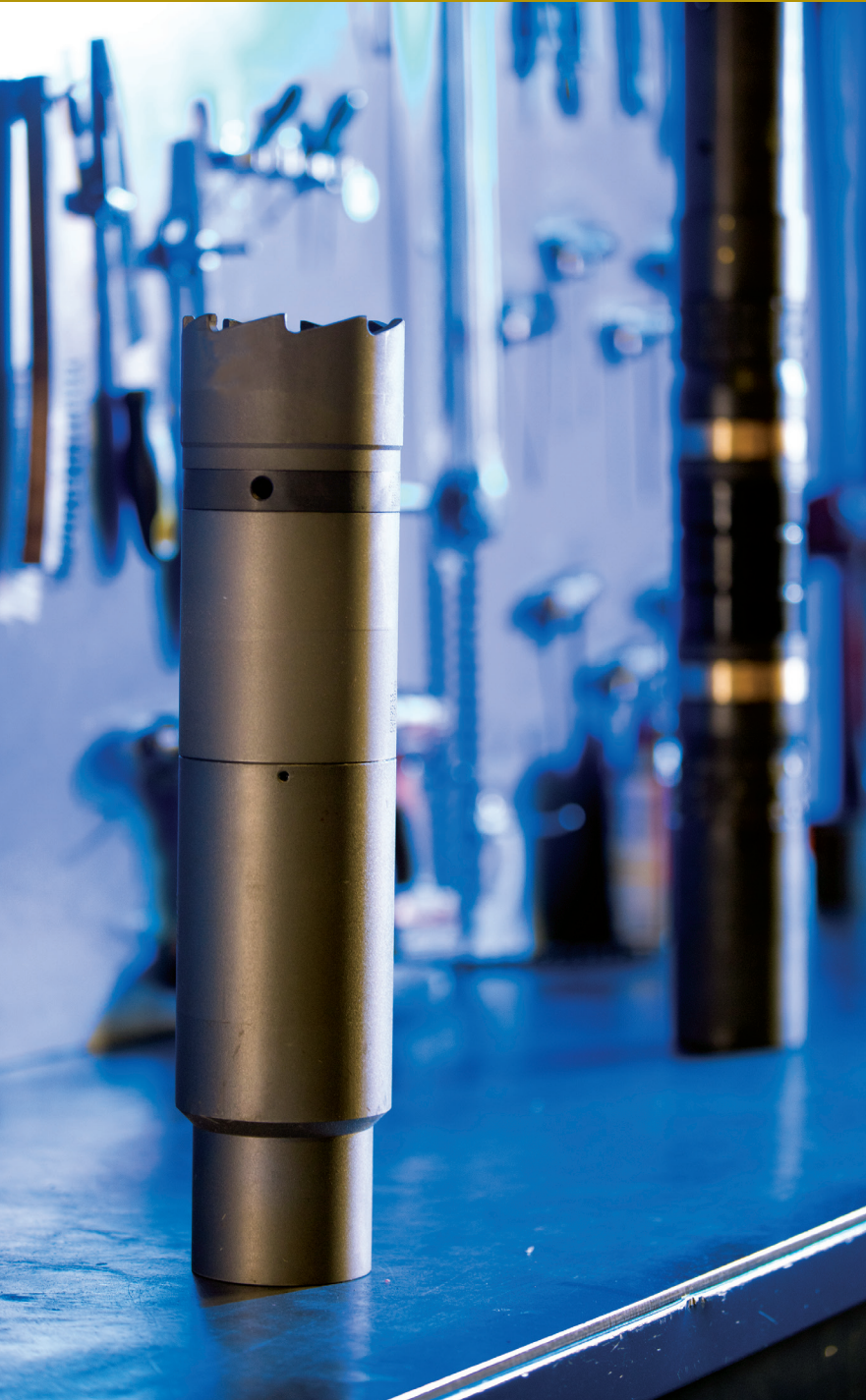
Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool Thread Connection (Box Up)	Part Number
Size (inches)	Weight (lbs/ft)				
5-1/2	14.0 - 23.0	4.670 - 5.012	4.500	2-7/8 IF TOOL JOINT	32155
7	17.0 - 35.0	6.004 - 6.538	5.750	3-1/2 IF TOOL JOINT	32170
7-5/8	24.0 - 39.0	6.625 - 7.025	6.400	3-1/2 IF TOOL JOINT	32175
14	82.5 - 101.5	12.600 - 12.876	12.438	4-1/2 IF TOOL JOINT	32114

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



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Tool Accessories



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PROFILE NIPPLE

The **Profile Nipple** is designed to allow common slickline plugs and equipment to be placed successfully downhole. API and Premium threads can be cut on the nipples to reduce crossovers. Common profile and sizes are available.

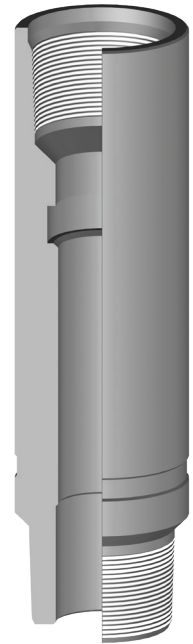
Special Features

- ID profiles made per customer requirements
- API and Premium threads available
- "F", "R", "DX", and "DXN" profiles available
- CRA trim available

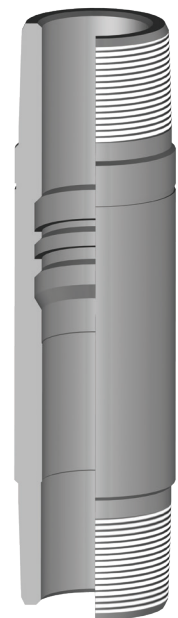
Product Specifications

Tubing Size (inches)	Profile Size (inches)	Profiles
1.900	1.500	DX DXN
2-3/8	1.437	F
	1.500	F R DX DXN
	1.625	F
	1.781	F R
	1.812	F R
	1.875	F R DX DXN
2-7/8	1.812	F R
	1.875	F R DX DXN
	2.130	R
	2.187	F R
	2.250	F R
	2.312	R DX DXN
3-1/2	2.250	F
	2.312	DX
	2.562	F R
	2.750	F R DX DXN
	2.812	F R DX DXN

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Box X Pin



Pin X Pin



BIT RELEASE JOINT

The **Bit Release Joint** is used in operations for drilling out cement, cast iron bridge plugs, composite bridge plugs, and other drillable tools and thereby leaving the drill string intact as the production string. The spring loaded check valve prevents tubing back-flow during drill out. After drill out, a ball is dropped through the drill string and seats in the piston. Pressure applied to the drill string forces the drill bit to release and fall to the bottom of the hole.

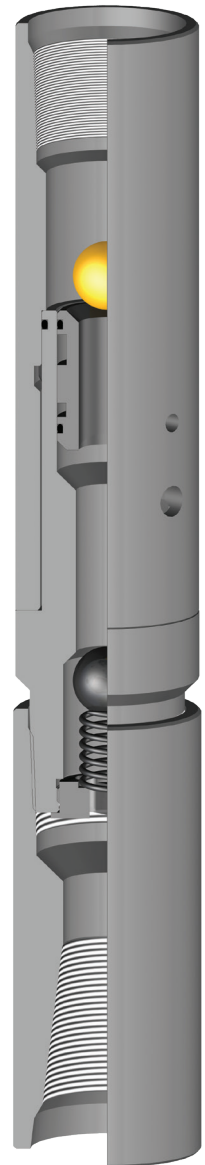
Special Features

- Simple design
- Dual float option
- Full opening after release
- High shear option available

Product Specifications

Thread Connections		Tool OD (inches)	Part Number
Top	Bottom		
2-3/8 EUE	2-3/8 REGULAR TOOL JOINT	3.500	80120
2-7/8 EUE	2-7/8 REGULAR TOOL JOINT	3.750	80125
4" IF TOOL JOINT	4-1/2 REGULAR TOOL JOINT	6.500	80145

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





SAFETY JOINT - SHEAR, ROTATIONAL & SWIVEL SHEAR

The **Safety Joint** allows positive release of the tubing string in completions where retrieval problems are anticipated. These safety joints are available in straight pull shear release, rotational release, and swivel shear release versions.

Product Specifications - Shear Safety Joint

Tubing Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
1-1/4	2.060	1.25	1-1/4 NPT	56912NPT
1.660	2.063	1.25	1.660 NUE	56916N
1.900	2.300	1.50	1.900 NUE	56919N
	2.500	1.50	1.900 EUE	56919E
2-3/8	3.063	2.00	2-3/8 EUE	56920K
2-7/8	3.688	2.50	2-7/8 EUE	56927K
3-1/2	4.500	3.00	3-1/2 EUE	56935K
4	5.000	3.50	4" EUE	56940K
4-1/2	5.560	4.00	4-1/2 EUE	56945K
5	5.560	4.50	5" LTC	56950K
5-1/2	6.050	4.67	5-1/2 LTC	56955K

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



**Shear
Safety Joint**



**Rotational
Safety Joint**



**Swivel Shear
Safety Joint**

Product Specifications - Rotational Safety Joint

Tubing Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
1.660	2.250	1.38	1.660 NUE	56816N
1.900	2.500	1.61	1.900 EUE	56819
2-3/8	3.060	2.00	2-3/8 EUE	56820
2-7/8	3.690	2.50	2-7/8 EUE	56827EH
3-1/2	4.250	3.00	3-1/2 NUE	56835
	4.500	3.00	3-1/2 EUE	56835E
4-1/2	5.200	4.00	4-1/2 EUE	56845-BAG
	5.000	4.00	4-1/2 LTC	56845LTC

OPTIONS: RH (Right-Hand Release), LH (Left-Hand Release)

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.

Product Specifications - Swivel Shear Safety Joint

Tubing Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
2-3/8	3.060	2.00	2-3/8 EUE	56320
2-7/8	3.690	2.50	2-7/8 EUE	56327E
3-1/2	4.500	3.00	3-1/2 EUE	56335
4-1/2	5.560	4.00	4-1/2 EUE	56345
			4-1/2 LTC	56345-XBCA
	5.000	3.92	4-1/2 LTC	56346-XBAC

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.

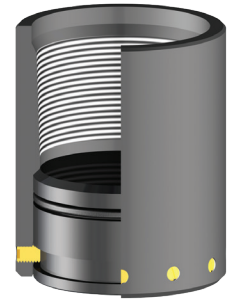


PUMP-OUT PLUG

The **Pump-Out Plug** is available with a variety of threads allowing installation to the bottom of the tubing string to isolate the tubing from the annulus. To remove the plug, pressure is applied to the tubing and the Pump-Out Plug is removed to allow full opening. The pump-out pressure value is easily adjusted in the field by adding or removing shear screws. Also available with ball seat.

Special Features

- Ball seat available
- Adjustable shear value (high shear available)
- Special Pump-Out Plug designs available



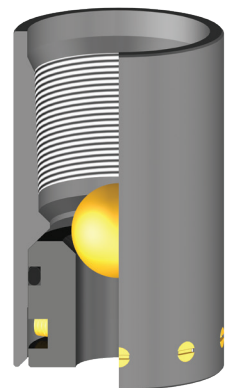
Pump-Out Plug
w/ Shear Screws

Product Specifications

Tubing Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connection Box Up	Part Number
1.050	1.660	-	1.050 EUE	59710E
1.315	1.900	1.20	1.315 EUE	59713E
1.660	2.062	1.38	1.660 NUE	59716N
	2.200	1.38	1.660 EUE	59716E
1.900	2.500	1.50	1.900 EUE	59719E
	2.200	1.50	1.900 NUE	59719N
2-3/8	3.060	2.00	2-3/8 EUE	59720E
2-7/8	3.670	2.50	2-7/8 EUE	59727E
3-1/2	4.500	3.46	3-1/2 EUE	59735E
		2.88	3-1/2 EUE	59736E
4-1/2	5.560	4.00	4-1/2 EUE	59745E
			4-1/2 LTC	59745LTC
5-1/2	6.000	5.13	5-1/2 LTC	59755LTC
6-5/8	7.390	6.23	6-5/8 LTC	59766LTC
7	7.650	6.60	7" LTC	59770LTC
8-5/8	9.620	8.18	8-5/8 LTC	59786LTC
9-5/8	10.620	9.17	9-5/8 LTC	59796LTC

OPTIONS: Available with high shear, also with ball and ball seat.

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Pump-Out Plug
w/ Shear Screws
and Ball Seat



DOWNHOLE TUBING/CASING SWIVEL

The **Downhole Tubing/Casing Swivel** isolates tools, casing, or tubing from rotation above. Bronze bearing rings insure smooth rotation under load. Simple design allows for easy tool redress.

Special Features

- Simple design for easy redress
- Full casing/tubing ID

Product Specifications - Tubing Swivel

Tubing Size (inches)	Swivel OD (inches)	Swivel ID (inches)	Thread Connection Box Up / Pin Down	Part Number
1.900	2.750	1.43	1.900 EUE / 1.900 NUE	83019
2-3/8	3.580	2.00	2-3/8 EUE	83021
	3.750	2.00	2-3/8 EUE	83020
2-7/8	4.400	2.50	2-7/8 EUE	83025
3-1/2	5.000	3.00	3-1/2 EUE	83035
4	4.500	3.38	4" NUE	83040
4-1/2	5.750	4.00	4-1/2 LTC	83045
	6.000	4.00	4-1/2 EUE	83046
5	5.875	4.50	5" LTC	83051
	6.250	4.50	5" LTC	83050
5-1/2	6.450	4.80	5-1/2 LTC	83056

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Tubing Swivel

Product Specifications - Casing Swivel

Casing OD (inches)	Swivel OD (inches)	Swivel ID (inches)	Thread Connection Box Up / Pin Down	Part Number
7	8.500	6.25	7" LTC	48070
		6.50	7" BUTTRESS	48070B
9-5/8	12.000	9.00	9-5/8 LTC	48095
			9-5/8 BUTTRESS	48095B
			9-5/8 LTC	48013

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



Casing Swivel



SURFACE TUBING SWIVEL

The **Surface Tubing Swivel** allows tubing to freely rotate under load during well service operations. Roller thrust bearings ensure smooth rotation under pressure and tensile loads. Simple design allows for easy tool redress. The Top Sub is designed to accommodate 2-3/8" and 2-7/8" Elevators. The Bottom Nipple has 2-3/8" EUE threads and a crossover to 2-7/8" EUE to accommodate either thread.

Special Features

- Easily adaptable to 2-3/8" and 2-7/8" EUE tubing
- Rugged but compact design that is time tested



Product Specifications

Tubing Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
2-7/8	6.50	2.38	2-7/8 EUE	832K27



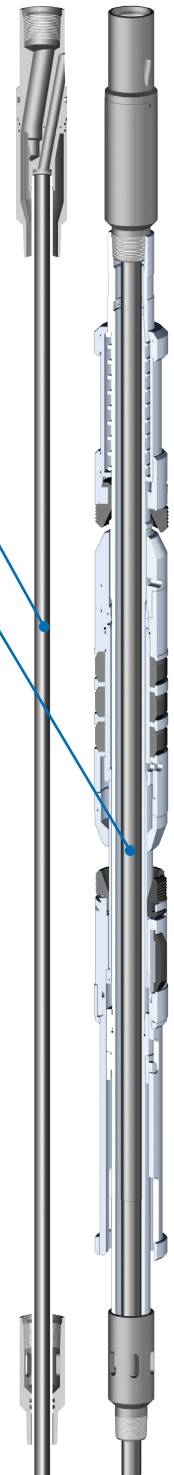
CROSS FLOW ASSEMBLY

The **Cross Flow Assembly** is designed to allow for a fluid path between the casing annulus and tailpipe below a packer. It primarily is used for gaslift operations where gas from above a set retrievable production packer is directed through the packer and tailpipe to be used to lift produced fluids. The produced fluids and gas are routed through the Cross Flow Assembly into the production string. The ported sub on bottom allows long tailpipe sections below the packer since the weight of the tailpipe hangs on the bottom of the packer.

The Cross Flow Assembly is designed to screw into the top of a standard retrievable production packer (such as an ASI-X Packer). The setting and retrieving of the production packer is not altered by the addition of the Cross Flow Assembly.

Special Features

- Simple design
- Easily re-dressed
- Adaptable to different retrievable packers



Product Specifications

Tubing Size (inches)	Production ID (inches)	Vent ID (inches)	Thread Connection Box Up / Pin Down	Part Number
1.900	1.19	0.62	1.900 NUE w/1/4" NPT PORT	67646
2-3/8	1.12	0.62	2-3/8 EUE	67645RCF
2-7/8	1.63	0.88	2-7/8 EUE / 2-3/8 EUE	67656
3-1/2	2.00	2.00	3-1/2 EUE	67670-3500EU
4	3.50	2.00	2-3/8 NUE / 4" NUE	67640
	2.00	2.00	4" NUE	67670-4000NU
5	2.50	2.39	2-3/8 EUE	67650LCFV
5-1/2	1.25	0.88	2-7/8 EUE	67657
				67656-BBA
				67656-XBAC
5-3/4	2.00	2.00	4" NUE	67640LCF
7	1.25	1.25	3-1/2 EUE	67673
	2.50	2.50	5" LTC	67650LCF
			2-3/8 EUE	67650LCF-E
	1.25	1.25	3-1/2 EUE	67673-E
				67673-XBAC

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



EXPANSION JOINT

The **Expansion Joint** is used to allow expansion and contraction during injection or production operations. They are also used between packers to allow stroke for setting and releasing packers and provides for rotation through the tool. Available with optional seals for low to high temperatures and in lengths up to twenty (20) feet.

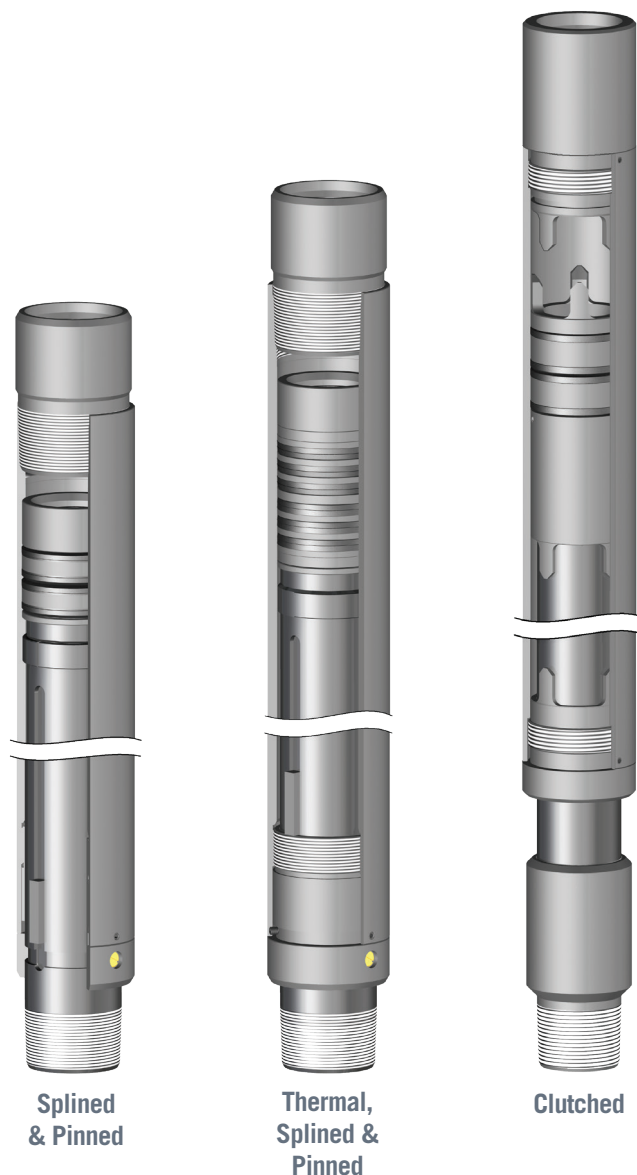
Special Features

- Pinned (P/N 537xx)
- Splined (Keyed) (P/N 538xx)
- Clutched (P/N 539xx)
- Thermal (P/N 532xx)
 - Combinations of two or more options available in one tool.

Product Specifications

Tubing Size (inches)
1.900
2-3/8
2-7/8
3-1/2
4
4-1/2
5
5-1/2
7
9-5/8

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





PUMP-OUT CEMENTING SLEEVE

The **Pump-Out Cementing Sleeve** is used for cementing tubing strings in both cased and open holes. It allows for internal parts to be pumped out after the cementing process leaving a full open bore with no loss of tubing strength. It is available in a variety of materials. A basket or packer placed below the sleeve provides a seal-point for pumping cement up the outside of the tubing string.

Special Features

- Full ID after pump out
- Simple design
- Adjustable shear value

Product Specifications

Size (inches)	Tool OD (inches)	Ball Seat ID (inches)	ID After Pump Out (inches)	Thread Connections Box Up / Pin Down	Part Number
2-3/8	3.250	1.00	1.93	2-3/8 EUE	22020
					22021
2-7/8	3.750	1.25	2.40	2-7/8 EUE	22027
3-1/2	4.410	1.25	2.90	3-1/2 EUE	22035
4	4.630	1.25	3.45	4" NUE	22040
4-1/2	5.500	1.25	3.97	4-1/2 LTC / 4-1/2 STC	22045
5-1/2	6.130	1.25	4.63	5-1/2 LTC	22055

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





TYPE E VALVE

The **Type E Valve** converts double-grip mechanical packers like the ASI-X Packer into Retrievable Bridge Plugs. The valve is in the open position when running and closed by left-hand rotation after setting the packer. When retrieving, the valve is opened by the rotation required to release the packer. Safety dogs lock the tool and valve together during running and retrieving.

Special Features

- Valve locked closed
- Bonded seals
- Equalized before releasing packer
- Safety interlock when running and retrieving

Product Specifications

Size (inches)	Tool OD (inches)	Thread Connection Pin Down	Part Number
1.900	2.130	1.900 NUE	12435
2-3/8	3.094	2-3/8 EUE	12445
2-7/8	3.094	2-7/8 EUE	12455
3-1/2	4.344	3-1/2 EUE	12473
4-1/2	4.750	4-1/2 EUE	12495

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





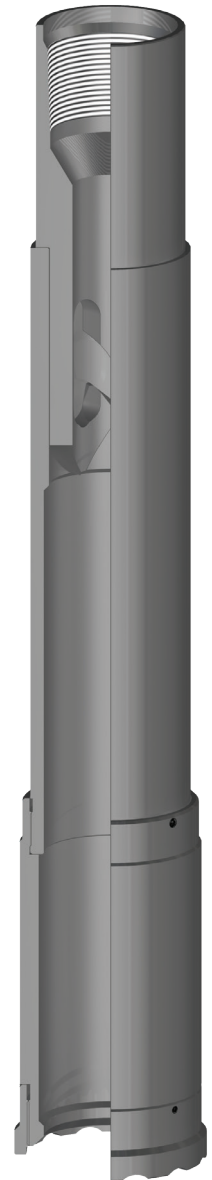
RUNNING TOOL - FOR TYPE E VALVE

The **Running Tool for the Type E Valve** is designed to be used with the Type E Valve to convert double grip mechanical packers (like the ASI-X Packer) into a retrievable bridge plug. This Running Tool features cutting teeth on the running shoe for breaking up compacted trash for easy removal. Running shoes are available in different OD sizes to aid for centering the running tool in larger casing if needed.

Product Specifications

Casing Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connection Box Up	Part Number
3-1/2	2.750	1.16	1.900 NUE	12435RT
4-1/2	3.680	1.78	2-3/8 EUE	12444RT
	3.750	1.78	2-3/8 EUE	12445RT
5-1/2	4.500	1.78	2-7/8 EUE	12455RT
			2-3/8 EUE	12456RT
7	5.880	1.78	2-7/8 EUE	12470RT
10-3/4	9.700	3.00	4-1/2 EUE	12401RT

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.





ANNULUS OPERATED TUBING DRAIN

The **Annulus Operated Tubing Drain** is an annulus pressure operated drain valve that can be opened to allow fluid to drain from the tubing on a trip out. Shear screws hold the valve closed until enough pressure is applied to the annulus to shear the screws. Once the valve is opened, it cannot be closed.



Product Specifications

Tubing Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number
2-7/8	3.750	2.50	2-7/8 EUE	55025
3-1/2	4.750	3.00	3-1/2 EUE	55035

NOTE: All pricing includes standard Nitrile trim. Other sizes and connections available upon request.



E2 ON/OFF TOOL

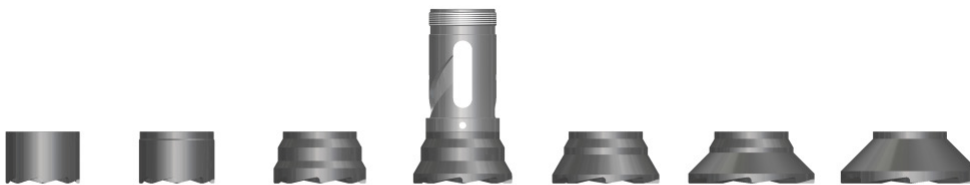
The **E2 On/Off Tool** is a fully machined, weld-free tubing seal receptacle allowing isolation of a lower zone using a wireline blanking plug. The tubing string can then be removed from the well. When re-run, the tubing string automatically re-engages to the stinger, and the blanking plug can be retrieved by wireline.

The **E2 On/Off Tool** is run above an ASI-X Packer, a VSI-X Packer or a Permapak Seal Bore Packer with a latch seal mandrel.

The **E2 On/Off Tool** is fully compatible with Eagle's existing T-2 Stingers and On/Off Tool Top Subs. Utilizing a common J-body among all casing sizes (per connection / stinger size) translates to less inventory items for customers to stock. Interchangeable milling shoes are available in all casing sizes to quickly and easily convert from one size to another.

Special Features

- Fully machined, weld-free design
- Common J-body = less inventory to stock
- Improved manufacturability = better availability
- Compatible with existing Eagle T-2 tools and accessories



Product Specifications

Stinger Size (Pin Down)	Tool Thread Connection (Box Up)	J-body/Cover Part Numbers	Casing Size (inches)	Shoe Part Number	Shoe OD (In.)	Part Number
1.050	1.900	51227340	2-7/8	-	2.250	51228
		51237340	3-1/2 (12.95#)	-	2.500	51237
1.900 NUE	1.900	51235340	3-1/2	-	2.750	51235
1.900 EUE	1.900	51540340A/ 51540340B (3.250 OD)	4	51540340C	3.250	51540
			4-1/2 (18.8#)	51542340C	3.437	51542
			4-1/2 (15.1 - 16.9#)	51543340C	3.580	51543



E2 On/Off Tool Product Specifications (continued)

Stinger Size (Pin Down)	Tool Thread Connection (Box Up)	J-body/Cover Part Numbers	Casing Size (inches)	Shoe Part Number	Shoe OD (In.)	Part Number
2-3/8	2-3/8	51545340A/ 51545340B (3.656 OD)	4-1/2	51544340C	3.656	51544
				51545340C	3.750	51545
			5	51552340C	4.000	51552
				51550340C	4.250	51550
			5-1/2	51554340C	4.375	51554
				51555340C	4.500	51555
			6-5/8	51565340C	5.500	51565
			7	51570340C	5.875	51570
2-7/8	2-7/8	51556340A/ 51556340B (4.406 OD)	5-1/2	51551340C	4.406	51551
				51556340C	4.500	51556
			6-5/8	51566340C	5.500	51566
			7	51571340C	5.875	51571
			7-5/8	51575340C	6.375	51575
			8-5/8	51585340C	7.500	51585
			9-5/8	51595340C	8.250	51595
			11-3/4	51511B340C	10.000	51511B
3-1/2	3-1/2	51573340A/ 51573340B (5.250 OD)	6-5/8	51567340C	5.500	51567
			7	51573340C	5.875	51573
			7-5/8	51576340C	6.375	51576
			8-5/8	51586340C	7.500	51586
			9-5/8	51596340C	8.250	51596
4-1/2	4-1/2	51577340A/ 51577340B (6.375 OD)	9-5/8	51597340C	8.250	51597
			10-3/4	-	-	51501
			13-3/8	51513340C	11.875	51513



PROTENSION SAFE TENSION TOOL

The patented ProTension™ Safe Tension Tool (STT) was designed as a safety tool to eliminate the potential for loss of well control when pulling a tubing string into tension. Additionally, it allows operators to safely set tubing anchors and other downhole tools in tension.

The ProTension™ STT is ideally suited for oil wells that will eventually require artificial lift. The tool ensures continuous well control when setting the production string in tension. When installed between the tubing hanger and production tubing, tension can be pulled into the work string without removing the blowout preventer (BOP) or overstretching the tubing.

The ProTension™ STT eliminates the need to use Low Line or Shallow Well Slips and helps protect personnel from high-tension loads. Once the tubing hanger is landed (isolating the annulus), tension is pulled into the tubing string and safely locked into place without losing well control. The ProTension™ STT allows for free rotation of the tubing for setting downhole tools in the string.

Special Features

- Allows tension to be pulled or released from tubing while the BOP or wellhead is still safely installed.
- Eliminates the need to overstretch tubing.
- Snubbing compatible for tensioning tubing string while under pressure
- Sour service coating available (Nickel)
- Reduced OD versions available

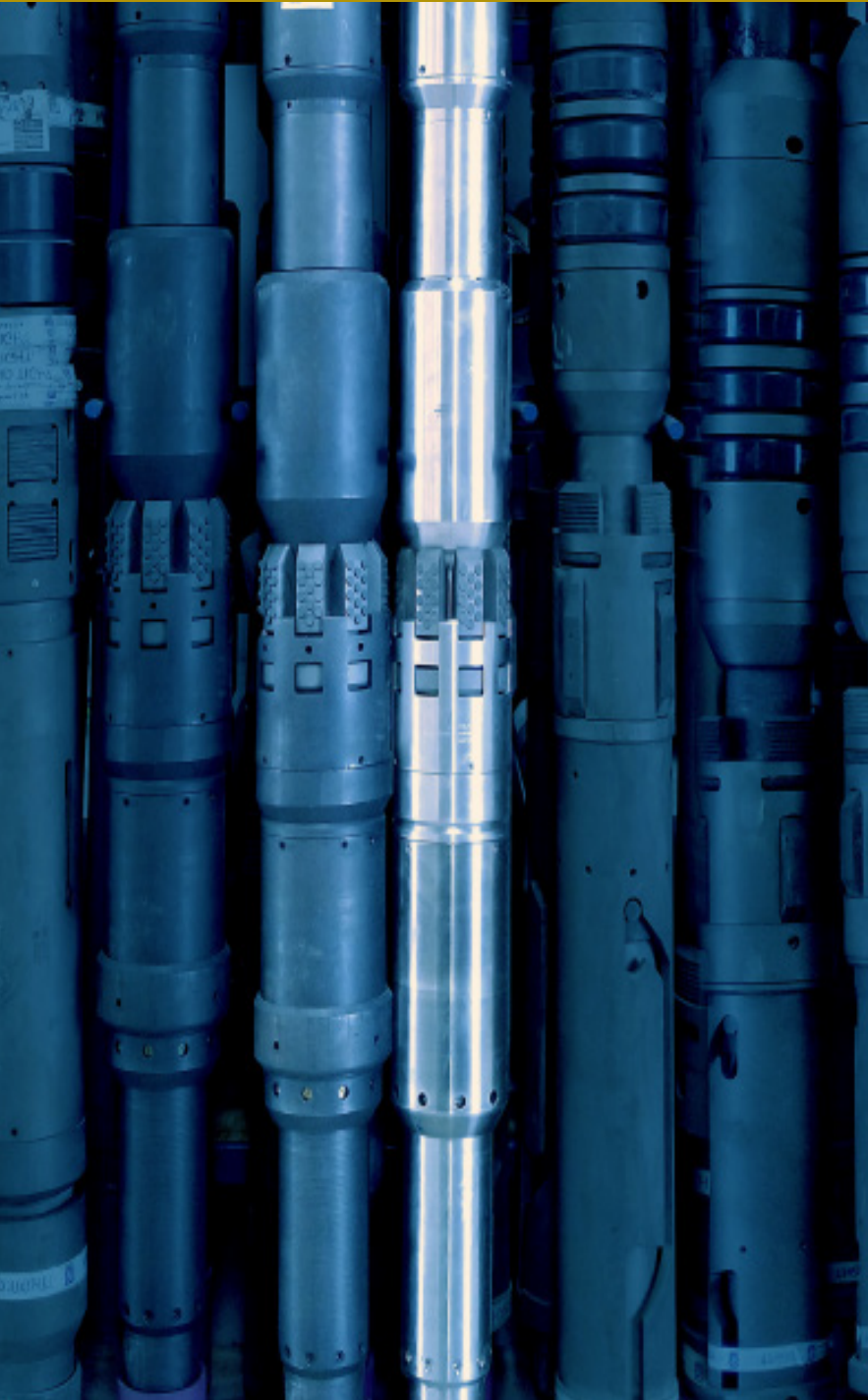


Product Specifications

Tubing Size (inches)	Thread Connection	Inches of Stretch Range	Closed Length (inches)	Extended Length (inches)	J Spacing (inches)	No. of J Hooks	Standard OD (inches)	Tool ID (inches)	Part Number
2-3/8	2-3/8 EUE	10-30	60.05	90.05	5.00	5	3.650	2.00	41720-30
		20-45	75.05	120.05	5.00	6	3.650	2.00	41720-45
		30-60	90.05	150.05	5.00	7	3.650	2.00	41720-60
2-7/8	2-7/8 EUE	10-30	60.42	90.42	5.00	5	4.500	2.44	41727-30
		20-45	75.42	120.42	5.00	6	4.500	2.44	41727-45
		30-60	90.42	150.42	5.00	7	4.500	2.44	41727-60

NOTE: All tools include standard HSN trim. Other sizes, materials and connections available upon request.
* Retrieving Tools sold separately.

New Technology



New Technology CONTENTS

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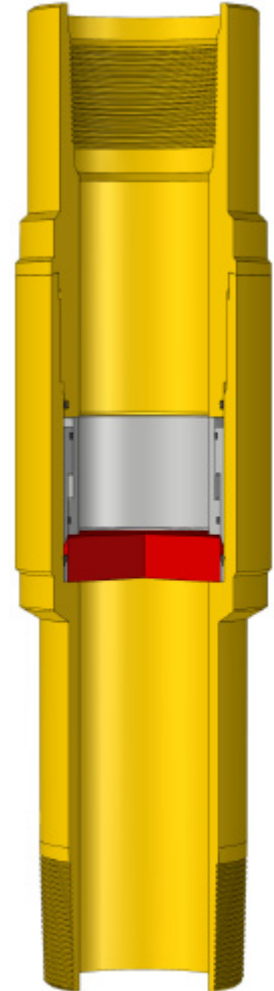


EAGLE CBS-8000 SERIES CASING BUOY

The **Eagle Casing Buoy** reduces drag of the casing in the horizontal section during installation, by employing its proven and proprietary frangible disk and shear mechanisms. This installation technique can be applied on every completion designs, including plug and perf, CT sleeves, and ballactivated sleeves, for both cemented and open-hole applications.

Special Features

- Reliably land casing through your extended lateral
- Full ID after activation (greater than casing drift)
- Reduced torque required to reach TD
- No debris management required
- Simple to use. No service required on location
- Greater than 50% reduced drag forces in lateral casing installation



Product Specifications - 4-1/2, 114.3 MM CASING BUOY

Tubing Size (inches)	Properties (Material)	Casing Weight (lb/ft)	Tensile Rating (lb)	Torque Rating (lb)	Burst Rating (psi)	Collapse Rating (psi)	Opening Pressure Range (psi)	Tool ID (inches)	Tool OD (inches)	Length (inches)	Weight (lb)
4-1/2	L80	11.6-13.5	317,000	7,050	10,810	9,200	1,500-8,000	3.90	5.56	18	45
4-1/2	P110	11.6-13.5	435,000	9,700	14,870	11,630	1,500-10,000	3.90	5.56	18	45

* **NOTE:** Ratings provided exclude ratings of casing & casing connection. Other sizes, materials and connections available upon request.



Product Specifications - 4-1/2, 114.3 MM "CASING" BUOY (Ccont)

Tubing Size (mm)	Properties (Material)	Casing Weight (kg/m)	Tensile Rating (daN)	Torque Rating (kg/m)	Burst Rating (MPa)	Collapse Rating (MPa)	Opening Pressure Range (MPa)	Tool ID (mm)	Tool OD (mm)	Length (meters)	Weight (kg)
114.3	L80	17.26-20.09	141,000	975	74.53	63.43	10.43-55.2	99.1	141.2	0.46	20.5
114.3	P110	17.26-20.09	193,490	1,341	102.52	80.18	10.34-68.9	99.1	141.2	0.46	20.5

Tubing Size (inches)	Properties (Material)	Casing Weight (lb/ft)	Tensile Rating (lb)	Torque Rating (lb)	Burst Rating (psi)	Collapse Rating (psi)	Opening Pressure Range (psi)	Tool ID (inches)	Tool OD (inches)	Length (inches)	Weight (lb)
4-1/2	P110	15.1	484,000	11,800	14,420	14,4340	1,500-10,000	3.83	5.66	18	50
4-1/2	O125	15.1	551,000	13,400	16,380	15,830	1,500-10,000	3.83	5.66	18	50

Tubing Size (mm)	Properties (Material)	Casing Weight (kg/m)	Tensile Rating (daN)	Torque Rating (kg/m)	Burst Rating (MPa)	Collapse Rating (MPa)	Opening Pressure Range (MPa)	Tool ID (mm)	Tool OD (mm)	Length (meters)	Weight (kg)
114.3	P110	22.47	215,290	1,630	99.42	98.87	10.34-68.9	96.5	143.7	0.5	23.0
114.3	O125	22.47	245.090	1,852	112.93	109.14	10.34-68.9	96.5	143.7	0.5	23.0



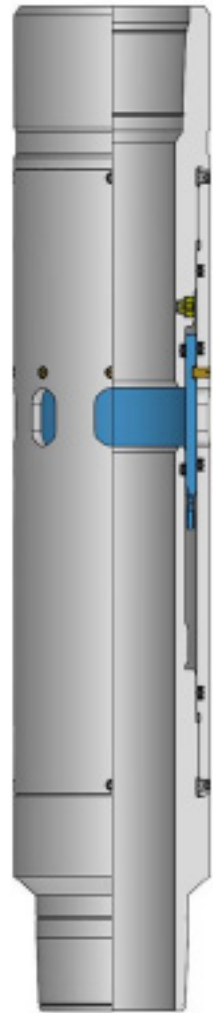
ERIS ATMOSPHERIC CHAMBERED TOE SLEEVE

The **Eagle Atmospheric Chambered Toe Sleeve** is designed to mitigate cement adhesion during completion of multizone horizontal well designs. The reliable absolute pressure activation locking valve ensures initial injection is achieved. Redundant burst disks provide protection to the inner tool components from well debris and cement thus ensuring the opening of the locking valve and providing communication to the reservoir.

Eagles ERIS toe sleeve is a customizable and reliable casing accessory utilized in both cemented and non-cemented applications as an integral casing string component to compliment your operations.

Special Features

- Absolute pressure activation to ensure highly accurate valve opening
- 103.4 MPa differential rating
- 30% larger flow area to reduce stimulation risk and optimize production
- Valve sleeve locks into position to ensure continued communication
- Minimized cement adhesion to critical moving parts
- Casing integrity confirmation prior to opening the locking valve
- No shear screws required reducing debris
- HNBR elastomer standard, high temperature version upon request
- Premium connections and Dual adjustable Fike burst disks available



Product Specifications

Tubing Size (mm)	Casing Weight (kg/m)	Burst Rating (MPa)	Collapse Rating (MPa)	Flow Area (sq.mm)	Temp Rating (degC)	Tool ID (mm)	Tool OD (mm)	Length (meters)
114.3	17.46 - 22.47	97.5	93.4	88,696.8	150	94.0	146.3	0.95



HPHT DUAL SILVERBACK RUPTURE SUB 3-1/2"

The **Eagle HPHT DUAL SilverBack Rupture Sub** provides a mechanism to safely isolate the reservoir pressure using two dome-shaped ceramic discs. This material provides very high strength under a variety of downhole conditions up to 15,000psi bottomhole pressure.

The HPHT Dual SilverBack Rupture sub is run on the bottom of the tubing and/or below a packer BHA to isolate the tubing and act as a barrier to set hydraulic set packers. After all tests are performed, the are knocked out using a Drop Bar, coiled tubing, slickline, or sandline. Once the disks are removed, the wellbore fluids can then be produced up the production tubing.

Special Features

- Used as barrier to set hydraulic packers & Used to negative test linertop
- Allows for tubing tests up to 15,000 psi.
- Economical alternative to profile nipple with a plug Eliminates plug & prong removal runs
- Full bore opening to tubing I.D. after Maverick Disks are removed.
- Maximizes surge potential in Managed Pressure operations
- Available with premium threads and materials.
- H₂S & CO₂ hostile environments
- Rated 400°F (204°C)
- Heavy mud environment.
- Little to no interfering debris left in the wellbore
- Used for snubbing applications in live wells*



Product Specifications

Tubing Size (inches)	Connection	Bottom-side Disk Rating (psi)	Top-side Disk Rating (psi)	Tool ID (inches)	Tool OD (inches)
3-1/2	3-1/2" 12.7 lb/ft Vam Top	15,000	15,000	2-3/4	4-1/2



ULTRON FRAC PLUG

The **ULTRON Plug** is a zonal isolation tool with a larger ID for long reach laterals. As the industry grows to more advanced drilling and completions practices, it requires more advanced zonal isolation. The ULTRON Plug is paramount for your next plug and perf operation. Like other plugs it is run in conjunction with your perforating guns via wireline but requires no mill out intervention after pumping operations are completed.

Special Features

- Anti-Preset Design Running Tool
- Largest ID available on the market today
- Rated 10,000psi and 350F
- Dissolvable Ball Options Available
- Uses industry Standard Setting Tools (Baker 10/20)
- Available in all common casing sizes



Product Specification

Size (inches)	Weight (lbs)	Tool ID (inches)	Drift (inches)	A (Run-in) (inches)	A (Set) (inches)	B (inches)	C (Min-ID) (inches)	Pressure Rating (psi)	Ball Size (inches)
4-1/2	11.6	4.0	3.875	5.97	3.50	3.70	3.06	10,000	3.25
4-1/2	15.1	3.826	3.701	5.97	3.50	3.53	2.885	10,000	3.125
5-1/2	23.0	4.670	4.545	5.97	3.5	4.37	3.63	10,000	3.888
5-1/2	17.0	4.892	4.767	5.97	3.50	4.59	3.85	10,000	4.13

Size (mm)	Weight (kg/m)	Tool ID (mm)	Drift (mm)	A (Run-in) (mm)	A (Set) (mm)	B (mm)	C (Min-ID) (mm)	Pressure Rating (MPa)	Ball Size (mm)
114.3	17.26	101.6	98.4	151.60	88.90	94.00	96.50	69.0	82.6
114.3	22.47	97.2	94.0	151.60	88.90	89.70	73.30	69.0	79.4
2139.7	34.23	118.6	115.4	151.6	88.9	111.00	92.20	69.0	98.5
139.7	25.30	124.3	121.1	151.60	88.90	116.60	97.80	69.0	104.9



CYCLOPS FRAC PLUG

The **Cyclops** Second Generation Composite Frac Plug is one step ahead of the competition when it comes to dependability and design, quickly recognized as one of the most efficient plugs on the market. The plug uses proprietary composite material which allows for the most efficient mill out times the industry has seen to date.

Special Features

- Anti-Preset Design
- No tungsten Carbide Buttons
- Rated 10,000psi and 300F
- Ball Drop, Caged Ball, Bridge Plug Options
- Industry Standard Setting Tools (Baker 10/20) in live wells*



Product Specification

Plug Size (inches)	Part	Casing Weight (lbs)	Casing OD (inches)	Tool ID (inches)	Tool OD (inches)	Length (inches)	Pressure Rating (psi)	Ball Size (inches)
3-1/2	100140	11.6	4.50	0.75	3.5	17.0	10,000	3.25
		13.5	4.50					
4.13	100140	23.0	5.50	1.25	4.13	18	10,000	3.125
		26.0	5.50					
4.38	100160	17.0	5.50	1.25	4.38	18	10,000	3.888
		20.0	5.50					



STEALTH DISSOLVABLE FRAC PLUG (MEGATRON)

The **MEGATRON Dissolvable Frac Plug** is a new technology designed and developed with over 180 material tests performed. The **MEGATRON** is the industries most advanced high performance dissolvable Frac Plug on the market today. With predictable dissolve rates in as little as 1% brine fluid the MEGATRON will bring your well on-line for a fraction of the cost of conventional methods.

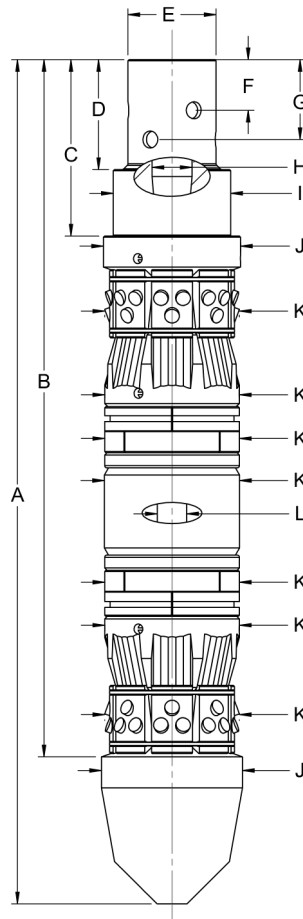
Special Features

- Anti-Preset Design
- Industries first fully dissolvable element
- Rated 10,000psi and 250F
- Predictable dissolve rates based on temperature and salinity
- Industry Standard Setting Tools (Baker 10/20)



Product Dimensions

Dim.	inches	mm
A	21.66	550.2
B	17.88	454.2
C	4.53	115.1
D	2.82	71.6
E	2.25	57.1
F	1.30	33.0
G	2.05	52.1
H	1.02	25.9
I	3.00	76.2
J	3.50	88.9
K	3.44	87.4
L	0.75	19.0



Engineering Data

Measurement	lbs	MPa
Pull Strength	30,000	13,333 daN
Burst Strength	10,000	69.0
Collapse Strength	10,000	69.0

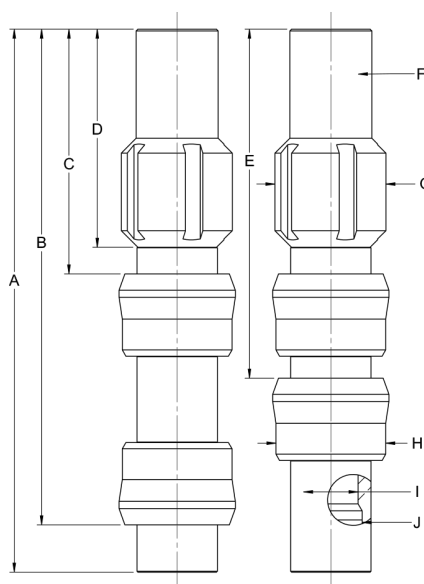


THERMAL CUP TOOL

This tool is engineered with a unique approach to conventional cup tool design. Not only does the thermal cup tool have thermal cups rated to 600F and centralization for smooth run-in and improved reliability, it has the option of a closeable fluid port inside the downhole-facing cup. These fluid ports dump fluid from the annulus of the tool into the tubing, minimizing seal energization of the downhole facing cup and reducing the swabbing effect from running in the hole. The new design allows for increased run-in speeds and decreased cup wear.

Special Features

- Rated 600F
- Rugged Design
- Positive Sealing Low or High Pressure
- Premium Materials & Sealing Elements
- Available in all sizes. Premium & Standard Thread Connections



Product Dimensions

Dim.	inches	mm
A	21.66	550.2
B	17.88	454.2
C	4.53	115.1
D	2.82	71.6
E	2.25	57.1
F	1.30	33.0
G	2.05	52.1
H	1.02	25.9
I	3.00	76.2
J	3.50	88.9
K	3.44	87.4
L	0.75	19.0

Engineering Data

Measurement	lbs	MPa
Pull Strength	122,500	54,470 daN
Burst Strength	7,000	48.3
Collapse Strength	7,000	48.3
Cup Rating @ 550F	1,000	6.9
Cup Rating @ 650F	TBA	TBA





DRILLABLE FRAC SLEEVE (DFSIII)

The **Drillable Frac Sleeve** is a ball activated communication sleeve designed as an annular communication device. On the fly ball activation is used to open frac sleeves for hydraulic fracturing. The extremely compact design provides ease of handling and trouble free make up on the rig floor. The Sleeve assures extreme high strength for large volume, high pressure fracture treatments.

Special Features

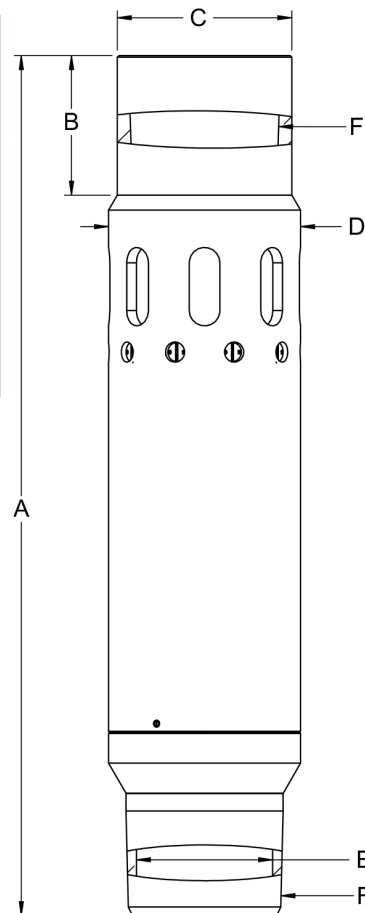
- Differential Pressure Rating of 10,00psi
- Reliable Ball Activation System
- Full Mono-bore I.D. after drill out is completed
- Communication Flow Port Area and Liner ID are Equal
- Field Adjustable Opening Pressure

Product Dimensions

Dim.	inches	mm
A	24.65	626.1
B	4.00	101.6
C	5.00	30.4
D	5.50	139.7
E	3.90	99.1
F	4-1/2 (11.6#) LTC	114.3 (17.26kg/m) LTC

Engineering Data

Measurement	imperial	metric
Pull Strength	290,238 lbs	128,995 daN
Burst Pressure	10,000 psi	69.0 MPa
Collapse Pressure	10,000 psi	69.0 MPa
Effective Area	16.8 sq.inch	108.4 sq.cm
Pressure / 5000# Screw	298 psi	1.99 MPa
Max Shear Pressure	2980 psi	19.93 MPa





OPEN HOLE ISOLATION PACKER (OHP)

The **Open Hole Isolation Packer** is single element open hole packer which provides secure and reliable high pressure annular isolation during hydraulic fracturing operations. The **Open Hole Isolation Packer** has a built in hydraulic setting chamber and is set by applying pressure to the tubing string. The slim design is rated to 10,000psi and has a full ID to match your casing string.

Special Features

- Differential Pressure Rating of 10,00psi
- Hydraulically Set – Internal Setting Chamber
- Designed Specifically For Open-Hole Applications
- Standard and Premium Connections Available
- 146mm Slim OD

Product Dimensions

Dim.	inches	mm
A	26.55	674.4
B	22.31	566.7
C	4.0	29.4
D	5.0	127.0
E	5.63	143.0
F	3.88	98.6
G	4-1/2 (11.6#) LTC	114.3 (17.26 kg/m) LTC

Engineering Data

Measurement	lbs	MPa
Pull Strength	122,500	54,470 daN
Burst Strength	7,000	48.3
Collapse Strength	7,000	48.3
Cup Rating @ 550F	1,000	6.9
Cup Rating @ 650F	TBA	TBA

