



Type T Squeeze Packer

The MOT **Type T Squeeze Packer** is a tension set packer that holds pressure from above or below. The tool 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, testing, stimulation and straddle operations using a Retrievable Bridge Plug. Two versions of Type T Squeeze Packers are offered: the standard three-element packer (shown) that uses ASI-X elements (P/N 621XX), and a two-element packer (P/N 620XX).

The MOT Tension Unloader is generally run above the Type T Squeeze Packer allowing pressure equalization before releasing the packer. It also provides a by-pass when running and retrieving to minimize swabbing of the elements.

The Type T Squeeze Packer emergency release system incorporates a left-hand, high-ratio thread. Applying right-hand torque relaxes the packing element and moves the lower cone away from the slips enabling them to 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

Size (inches)	Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connection Box Up/Pin Down	Part Number
	Weight (lbs/ft)						
2-7/8	6.4-6.5		2.375 - 2.441	2.250	0.75	1.660 EUE	62025
4	9.5-11		3.476 - 3.548	3.250	1.63	2-3/8 EUE	62040
							62140
4-1/2	9.5-13.5		3.920 - 4.090	3.750	2.00	2-3/8 EUE	62045
	15.1-16.9		3.740 - 3.826	3.594	1.63	2-3/8 EUE	62145
5	13-18		4.276 - 4.494	4.125	2.00	2-3/8 EUE	62143
	18-20.8		4.156 - 4.276	4.000	2.00	2-3/8 EUE	62150
5-1/2	14-20		4.778 - 5.012	4.625	2.00	2-3/8 EUE	62052
	20-23		4.670 - 4.778	4.500	2.00	2-3/8 EUE	62152
6	14-20		5.352 - 5.552	5.188	2.00	2-3/8 EUE	62055
6-5/8	24-28		5.791 - 5.921	5.625	2.50	2-7/8 EUE	62155
							62160
7	17-23		6.366 - 6.538	6.187	2.50	2-7/8 EUE	62165
	17-26		6.276 - 6.538	6.000	2.50	2-7/8 EUE	62072
7-5/8	24-29.7		6.875 - 7.025	6.672	2.50	2-7/8 EUE	62171
	33.7-39		6.625 - 6.765	6.453	2.50	2-7/8 EUE	62070
8-5/8	20-28		8.017 - 8.191	7.750	3.00	3-1/2 EUE	62175
	24-40		7.725 - 8.097	7.500	2.50	2-7/8 EUE	62176
9-5/8	32.3-43.5		8.755 - 9.001	8.500	3.00	3-1/2 EUE	62186
	43.5-53.5		8.535 - 8.755	8.250	3.00	3-1/2 EUE	62085
10-3/4	32.75-55.5		9.760 - 10.192	9.500	4.00	4-1/2 EUE	62185
13-3/8	48-77		12.275 - 12.715	12.000	4.00	4-1/2 EUE	62195

**Other sizes and connections available upon request*



HD Retrievable Packer

The MOT **HD Retrievable Packer** is a high pressure, full opening, compression set tool for squeeze cementing, acidizing, fracturing and other stimulation procedures. This tool features a pressure-balanced unloader that closes when the packer sets. While pressure aids in maintaining the seal, the unloader can be easily opened under high differential pressure. The large internal by-pass reduces swabbing when running and retrieving.

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

Size (inches)	Casing		Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connection Box Up/Pin Down	Part Number
	Weight (lbs/ft)						
4-1/2	9.5-13.5		3.920 - 4.090	3.750	1.88	2-3/8 EUE	61345
	11.6-15.1		3.826 - 4.000	3.656			61346
5	11.5-15		4.408 - 4.560	4.125	1.88	2-3/8 EUE	61350
	18-21		4.154 - 4.276	3.969			61352
5-1/2	14-20		4.778 - 5.012	4.625	2.00	2-3/8 EUE	61357
	20-23		4.670 - 4.778	4.500			61356
6-5/8	24-32		5.675 - 5.921	5.500	2.50	2-7/8 EUE	61365
7	17-26		6.276 - 6.538	6.000	2.50	2-7/8 EUE	61372
	24-29.7		6.184 - 6.336	6.672			61375
	26-32		6.094 - 6.276	5.875			61370
7-5/8	33.7-39		6.625 - 6.765	6.453	2.50	2-7/8 EUE	61376
9-5/8	32.3-43.5		8.755 - 9.001	8.500	4.00	4-1/2 EUE	61396
	43.5-53.5		8.535 - 8.755	8.250			61395
10-3/4	32.75-45.5		9.950 - 10.192	9.700	4.00	4-1/2 EUE	61301
	51-65.7		9.560 - 9.850	9.312		4-1/2 EUE	61310
11-3/4	42-65		10.682 - 11.084	10.348	4.00	4-1/2 EUE	61311
13-3/8	54.5-77		12.275 - 12.615	12.000	4.00	4-1/2 EUE	61313

**Other sizes and connections available upon request*



K-10 Packer

The MOT **K-10** is a retrievable packer that functions like a permanent drillable packer. It is ideal for many injection, production and zone isolation functions. Once it is set, it mechanically locks for no movement and will hold pressure from above or below with no requirement for set down weight, tension, or hydraulic hold down to maintain its pack-off. When run with an on/off tool, the tubing string can be disconnected and removed while leaving the packer in its set position.

This Mesquite packer is ideal for isolating bad sections of casing in pumping wells, and allows the tubing to be set in neutral so seasonal fluid temperature changes in

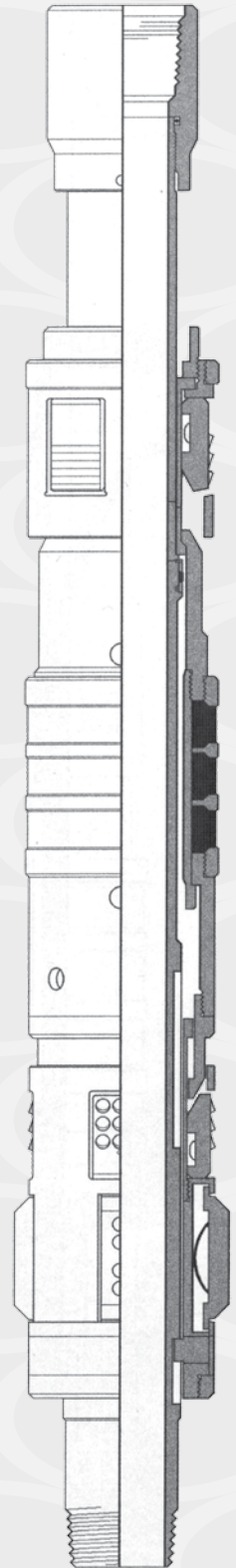
waterflood wells do not cause problems. Tubing elongation will not affect the pack-off. The tubing also can be in tension, allowing the packer to be used as a tubing anchor/catcher when required.

Since it is a short packer, the K-10 is extremely useful in highly deviated wells and is designed to withstand up to 10,000 PSI differential pressure. Its slips and drag blocks are carbide-tipped.

Using a standard pressure setting device, the K-10 Packer is also designed to be run and set on wireline.

SIZE (Inches)	CASING WT.	MAXIMUM OD	MINIMUM ID	CONNECTIONS
2-7/8	6.4-6.5	2.300	0.6875	1.660 EU10Rd
2-7/8	7.8-7.9	2.200	0.6875	1.660 EU10Rd
2-7/8	8.6-8.7	2.125	0.6875	1.660 EU10Rd
3-1/2	9.2-10.2	2.78	1.25	1.900 EU10Rd
3-1/2	7.7-9.2	2.84	1.25	1.900 EU10Rd
4-1/2	9.5-13.5	3.75	1.94	2-3/8 EU8Rd Box x 2-3/8 NU10Rd Pin
5-1/2	13-15.5	4.78	2.00	2-7/8 EU8Rd
5-1/2	14-20	4.64	2.00	2-7/8 EU8Rd
5-1/2	20-23	4.50	2.00	2-7/8 EU8Rd
5-1/2	13-15.5	4.78	2.38	2-7/8 EU8Rd
5-1/2	14-20	4.64	2.38	2-7/8 EU8Rd
5-1/2	20-23	4.50	2.38	2-7/8 EU8Rd
6-5/8	20-24	5.75	2.44	2-7/8 EU8Rd
7	32-38	5.75	2.44	2-7/8 EU8Rd
7	26-32	5.85	2.44	2-7/8 EU8Rd
7	23-29	5.85	2.44	2-7/8 EU8Rd
7	17-26	6.07	2.44	2-7/8 EU8Rd

All dimensions listed in inches.



Crest III Packer

The MOT **Crest III Packer** is a weight set service packer for high-pressure remedial work such as acidizing, fracturing and squeeze cementing. It sets with minimal tubing manipulation and will withstand differential pressure from above or below.

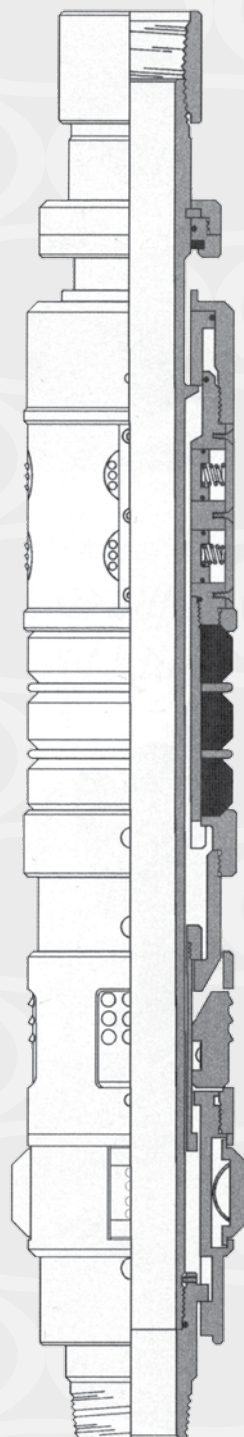
When set, a balance piston is actuated as pressure increases, exerting downward force on the inner mandrel, thus insuring the equalizing valve is not pumped open.

A large integral fluid bypass allows the packer to be run quickly with minimal change of swabbing off packing elements or dulling hold down slips. No rotation is required to retrieve the tool, and its equalizing valve opens with the first upward movement.

Standard equipment includes carbide tipped hold down slips, lower slips and drag blocks.

SIZE (Inches)	CASING WT.	GAGE & GUIDE RING OD	PACKING ELEMENT OD	PACKER BORE	CONNECTIONS
3-1/2	7.7-9.3	2.781	2.75	1.25	1.900 EU10Rd
4	9.5-11.0	3.281	3.25	1.50	2-3/8 EU8Rd
4-1/2	13.5-16.6	3.750	3.62	1.88	2-3/8 EU8Rd
5	15-18	4.125	3.94	1.88	2-3/8 EU8Rd
5	11.5-15	4.125	4.12	1.88	2-3/8 EU8Rd
5-1/2	17-23	4.500	4.38	2.00	2-3/8 EU8Rd
5-1/2	14-17	4.641	4.50	2.00	2-3/8 EU8Rd
5-1/2	13-15.5	4.781	4.69	2.00	2-3/8 EU8Rd
6-5/8	20-24	5.687	5.56	2.50	2-7/8 EU8Rd
7	29-38	5.687	5.66	2.50	2-7/8 EU8Rd
7	23-29	6.000	5.75	2.50	2-7/8 EU8Rd
7	17-23	6.180	6.12	2.50	2-7/8 EU8Rd
7-5/8	43-47	6.180	6.12	2.50	2-7/8 EU8Rd
7-5/8	33-39	6.433	6.12	2.50	2-7/8 EU8Rd
7-5/8	24-30	6.672	6.50	2.50	2-7/8 EU8Rd

All dimensions listed in inches. Other sizes and connections available upon request.



CPW Retrievable Squeeze Packer

The MOT **CPW Retrievable Squeeze Packer** is designed to perform all the tasks required of a retrievable stimulation and work over packer and withstand high pressures from above or below. It can be used in all types of squeeze cementing, fracturing, and acidizing with subsequent testing.

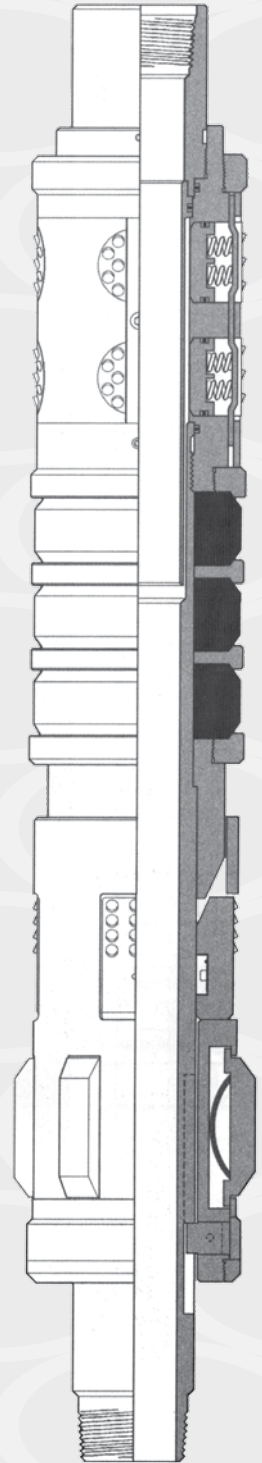
The hydraulically actuated hold down slips and mechanical lower slips are carbide tipped for long and dependable service. The CPW's

packing element system is the proven three-section type, but it is heavier and more reliable than packer systems with an integral bypass.

This Mesquite packer runs with a separate unloader, such as the Locking Compression Unloader, eliminating the possibility of pumping open (which can occur with many equalizing valves).

SIZE (Inches)	CASING WT.	GAGE & GUIDE RING OD	PACKING ELEMENT OD	PACKER BORE	CONNECTIONS
4-1/2	9.5-13.5	3.750	3.62	1.94	2-3/8 EU8Rd
4-1/2	13.5-16.6	3.640	3.50	1.94	2-3/8 EU8Rd
5	15-18	4.125	3.94	1.94	2-3/8 EU8Rd
5	11.5-15	4.250	4.12	1.94	2-3/8 EU8Rd
5-1/2	17-23	4.500	4.38	1.94	2-3/8 EU8Rd
5-1/2	14-17	4.641	4.50	1.94	2-3/8 EU8Rd
5-1/2	13-15.5	4.781	4.69	1.94	2-3/8 EU8Rd
5-1/2	14-17	4.641	4.50	1.94	2-7/8 EU8Rd
5-1/2	13-15.5	4.781	4.69	1.94	2-7/8 EU8Rd
6-5/8	20-24	5.750	5.56	2.50	2-7/8 EU8Rd
7	29-38	5.750	5.56	2.50	2-7/8 EU8Rd
7	23-29	5.970	5.7	2.50	2-7/8 EU8Rd
7	17-23	6.188	6.12	2.50	2-7/8 EU8Rd
7-5/8	43-47	6.188	6.12	2.50	2-7/8 EU8Rd
7-5/8	33-39	6.453	6.12	2.50	2-7/8 EU8Rd
7-5/8	24-30	6.672	6.50	2.50	2-7/8 EU8Rd

All dimensions listed in inches. Other sizes and connections available upon request.



Stradasnap

The MOT **Stradasnap Packer** consists of a modified Snapset II Packer combined with an AS-III Packer. A Stradasnap Packer tool is used for selectively acidizing short intervals of casing perforations to evenly break down the 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 packer is plugged by using an Equalizing Standing Valve or similar device. A Spot Control Valve or an Acid Valve can be run above the 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 packer across the lower-most perforation, the packer is set and the perforation is treated. Straight pick-up of the tubing releases the packer to be moved up to the next perforation. Repeat the setting procedure to reset. When retrieving the packer, retrieve the spot control 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

Size (inches)	Casing	Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connection Box Up/Pin Down	Part Number
	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	4.408 - 4.560	4.125	1.94	2-3/8 EUE	64550
	18-21	4.154 - 4.276	4.000	1.94	2-3/8 EUE	64552
5-1/2	14-20	4.778 - 5.012	4.625	1.94	2-3/8 EUE	64555
				2.38	2-7/8 EUE	64556
6-5/8	24-32	5.675 - 5.921	5.500	2.50	2-7/8 EUE	64565
7	17-26	6.276 - 6.538	6.000	2.50	2-7/8 EUE	64572
	26-32	6.094 - 6.276	5.875	2.50	2-7/8 EUE	64570

**Other sizes and connections available upon request*

Modified Snapset II

AS-III



SP Sand Pump

The MOT **SP Sand Pump** is a tubing conveyed, high volume, pump device specifically designed for use in low fluid level wells, but equally successful in wells with full hydrostatic columns. The SP Sand Pump is used to remove sand and other debris from the wellbore by reciprocating the tubing.

Applications

- ▶ Stimulation clean out
- ▶ Perforation clean out
- ▶ Low fluid well clean out

Specifications

Casing OD (in./mm)	Maximum OD (in./mm)	Minimum ID (in./mm)	Standard Thread Connection
2-3/8 60.33	3.150 80.01	.719 18.26	2-3/8" EU 8RD
2-7/8 73.03	3.781 96.04	.975 24.76	2-7/8" EU 8RD

Features

- ▶ Inexpensive to operate
- ▶ Simple design
- ▶ Large hex Kelly for torque transmission
- ▶ High Volume stroke for efficient operation
- ▶ High load and shock carrying capacity
- ▶ Does not require circulation pumps of fluids
- ▶ Available in 5' and 10' stroke
- ▶ Debris containment during clean out





Nimbus Hurricane Packer

The MOT **Nimbus** is a heavy duty, 3/4 turn, compression set, retrievable packer capable of holding differential pressure from above or below.

Applications

- ▶ Primarily used to secure a well during weather-related emergencies or wellhead repair without retrieval of the drill string.
- ▶ Usually run in conjunction with a back check valve system, such as the ECV Emergency Control Valve.
- ▶ May also be used for acidizing, fracturing, squeeze cementing and casing tests.

Features

- ▶ Heavy duty mandrel with tool joint connections
- ▶ Hydraulic hold-down
- ▶ Large bypass area
- ▶ Large number of drag blocks for good control
- ▶ Caged slips with carbide buttons
- ▶ Optional right or left hand set





Nimbus Hurricane Packer

Casing				Packer	
OD (in./mm)	Weight (lb/ft)	Minimum ID (in./mm)	Maximum ID (in./mm)	Maximum OD (in./mm)	Standard Thread Connection
4-1/2 114.3	15.1 - 18.8	3.640 92.46	3.826 97.18	3.771 95.78	2-3/8" IF
4-1/2 114.3	9.5 - 13.5	3.920 99.57	4.090 103.89	4.125 104.78	2-3/8" IF
5 127	11.5 - 15.0	4.408 119.96	4.560 115.82	4.250 107.95	2-3/8" IF
5 127	26.0	4.408 119.96	4.560 115.82	4.250 107.95	2-3/8" IF
9-5/8 244.48	47.0 - 53.5	8.535 216.79	8.681 220.5	8.218 208.74	4-1/2" IF
9-5/8 244.48	40.0 - 47.0	8.681 220.5	8.835 224.41	8.437 214.3	4-1/2" IF
9-5/8 244.48	29.3 - 36.0	8.921 224.43	9.063 230.2	8.593 218.26	4-1/2" IF
10-3/4 273.05	65.7 - 81.0	9.250 236.59	9.560 242.82	9.000 228.6	4-1/2" IF
10-3/4 273.05	55.5 - 60.7	9.660 245.36	9.760 247.9	9.375 238.13	4-1/2" IF
10-3/4 273.05	32.7 - 51.0	9.850 250.19	10.192 258.88	9.625 244.48	4-1/2" IF
13-3/8 339.73	77.0 - 102.0	11.899 302.23	12.275 311.79	11.625 295.28	4-1/2" IF
13-3/8 339.73	48.0 - 72.0	12.347 313.61	12.715 322.96	12.125 307.98	5-1/2" IF
16 406.4	109.0 - 128.0	14.438 366.73	14.688 373.08	14.182 360.22	5-1/2" IF
16 406.4	52.5 - 84.0	15.010 381.25	15.396 391.06	14.755 374.78	5-1/2" IF



PFH Hydrostatic/Hydraulic Packer

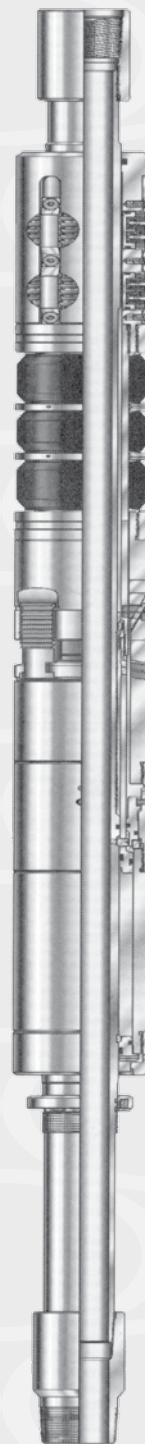
The MOT **PFH** is a hydrostatic and/or Hydraulic set packer that allows the tubing to be left in a compression or neutral condition. Used in multiple-zone production where crooked or deviated holes are not suitable for mechanical packers. An installation where the wellhead is flanged up before the packer is set.

Applications

- ▶ Multi-zone production in crooked or deviated holes not suitable for mechanical packers and installations where the wellhead is flanged up before the packer is set.

Features

- ▶ No tubing manipulation required
- ▶ Withstands high hydrostatic pressures
- ▶ Hydraulic set for low hydrostatic head wells
- ▶ Locked in pack-off force
- ▶ Hydraulic hold-down for differential pressure from below
- ▶ No mandrel movement during setting. Straight pull or optional rotational release
- ▶ Parts interchangeable with other manufacturers



PFH Hydrostatic/Hydraulic Packer

Casing				Packer	
OD (in./mm)	Weight (lb/ft)	Minimum ID (in./mm)	Maximum ID (in./mm)	Maximum OD (in./mm)	Standard Thread Connection
5-1/2 139.70	20.0 - 23.0	4.670	4.778	4.500	2-3/8" EU 8RD
	29.76 - 34.22	118.62	121.36	114.30	
	15.5 - 20.0	4.778	4.950	4.641	2-3/8" EU 8RD
	23.06 - 29.76	121.36	125.73	117.88	
6 152.40	13.0 - 15.5	4.950	5.044	4.781	2-3/8" EU 8RD
	19.34 - 23.06	125.73	128.12	121.44	
	26.0	4.950	5.044	4.781	2-3/8" EU 8RD
	38.69	125.73	128.12	121.44	
6-5/8 168.28	24.0	5.830	5.937	5.656	2-7/8" EU 8RD
	35.71	148.08	150.80	143.66	
	17.0 - 20.0	6.049	6.135	5.812	2-7/8" EU 8RD
	25.30 - 29.76	153.64	155.83	147.62	
7 177.80	38.0	5.830	5.920	5.656	2-7/8" EU 8RD
	56.54	148.08	150.37	143.66	
	32.0 - 35.0	6.004	6.094	5.812	2-7/8" EU 8RD
	47.62 - 52.08	152.50	154.79	147.62	
	26.0 - 29.0	6.184	6.276	5.968	2-7/8" EU 8RD
	38.69 - 43.15	157.07	159.41	151.59	
	26.0 - 29.0	6.184	6.276	5.968	3-1/2" EU 8RD
	38.69 - 43.15	157.07	159.41	151.59	
	20.0 - 26.0	6.276	6.366	6.078	2-7/8" EU 8RD
	29.76 - 38.69	159.41	161.70	154.38	
7-5/8 193.68	20.0 - 26.0	6.276	6.366	6.078	3-1/2" EU 8RD
	29.76 - 38.69	159.41	161.70	154.38	
	33.7 - 39.0	6.625	6.765	6.453	2-7/8" EU 8RD
	50.15 - 58.03	168.28	171.83	163.91	
	24.0 - 29.7	6.875	7.025	6.672	2-7/8" EU 8RD
	35.71 - 44.19	174.63	178.44	169.47	
	33.7 - 39.0	6.625	6.765	6.453	3-1/2" EU 8RD
	50.15 - 58.03	168.28	171.83	163.91	



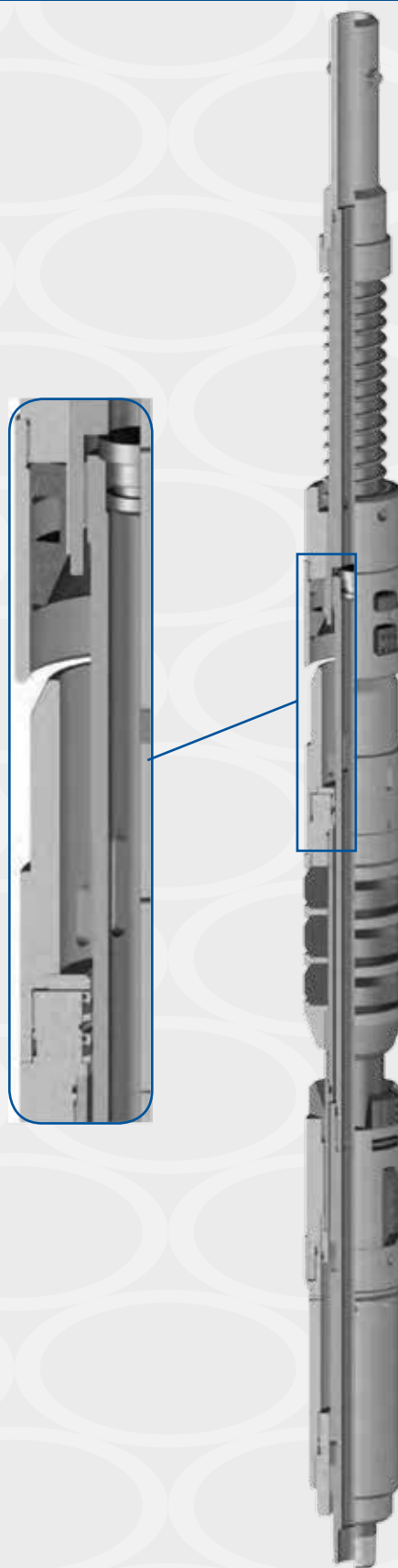
AS Retrievable Bridge Plug

The MOT **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 valve closes when the plug is set.

When unsetting, the by-pass valve opens before releasing the upper slips to allow pressure equalization. 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 shallow in unsupported casing to contain pressure while working on wellhead equipment.

Special Features

- ▶ 1/4 right-hand set and release (standard)
- ▶ Large by-pass
- ▶ Set shallow or deep
- ▶ Pressure equalization before release
- ▶ High pressure rating
- ▶ Additional J-slot arrangements available



AS Retrievable Bridge Plug Product Specifications

Size (inches)	Casing	Recommended Hole Size (inches)	Tool OD (inches)	Thread Connection Pin Down	Part Number	
	Weight (lbs/ft)				Std	Wireline
3-1/2	7.7-10.2	2.922 - 3.068	2.781	1.900 EUE	72535	72435
4	9.5-11	3.476 - 3.548	3.250	1.900 EUE	72540	-
4-1/2	9.5-13.5	3.920 - 4.090	3.750	2-3/8 EUE	72545	72445
	15.1	3.826	3.656	2-3/8 EUE	72544	-
	15.1-16.6	3.754 - 3.826	3.625	2-3/8 EUE	72541	72441
5	11.5-15	4.408 - 4.560	4.125	2-3/8 EUE	72550	72450
	18-21	4.154 - 4.276	3.969	2-3/8 EUE	72552	72452
5-1/2	9-13	5.044 - 5.192	4.812	2-3/8 EUE	72554	72454
	13-20	4.778 - 5.044	4.625	2-3/8 EUE	72555	72455
	20-23	4.670 - 4.778	4.500	2-3/8 EUE	72557	72457
6	17-20	5.352 - 5.450	5.188	2-3/8 NUE	72560	-
6-5/8	17-24	5.921 - 6.135	5.750	2-3/8 EUE	72567	72467
	24-32	5.675 - 5.921	5.500	2-3/8 EUE	72565	72465
	32-35	5.575 - 5.675	5.375	2-3/8 EUE	72566	72466
7	17-26	6.276 - 6.538	5.969	2-3/8 EUE	72570	72470
	26-32	6.094 - 6.276	5.875	2-3/8 EUE	72571	72471
7-5/8	24-29.7	6.875 - 7.025	6.672	2-3/8 EUE	72575	72475
	29.7-33.7	6.765 - 6.875	6.527	2-3/8 EUE	72576	72476
	33.7-39	6.625 - 6.765	6.453	2-3/8 EUE	72577	72477
8-5/8	20-28	8.071 - 8.191	7.750	3-1/2 EUE	72581	-
	24-40	7.725 - 8.097	7.500	3-1/2 EUE	72585	72485
9-5/8	32.3-43.5	8.755 - 9.001	8.500	3-1/2 EUE	72596	72496
	43.5-53.5	8.535 - 8.755	8.250	3-1/2 EUE	72595	72495
10-3/4	32.75-51	9.850 - 10.192	9.625	3-1/2 EUE	72501	-
	51-65.7	9.560 - 9.850	9.312	3-1/2 EUE	72510	-
11-3/4	42-71	10.586 - 11.084	10.375	4-1/2 IF	72511	72411
14	82.5-101.5	12.600 - 12.876	12.438	4-1/2 IF	72514	-

**Other sizes and connections available upon request*

HD Abandonment Packer

The MOT **HD Abandonment Packer** is a heavy-duty version of the popular HD Packer. The packer is set in compression, making it well suited for abandonment applications. A large internal by-pass reduces swabbing when running and retrieving. The J-slot design allows easy setting and releasing - 1/4 right-hand turn sets the packer and straight pickup releases the packer.

Special Features

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

Product Specifications

Size (inches)	Casing	Recommended Hole Size (inches)	Tool OD (inches)	Tool ID (inches)	Thread Connection Box Up/Pin Down	Part Number
	Weight (lbs/ft)					
9-5/8	32.5-43.5	8.755 - 9.001	8.500	3.50	4-1/2 EUE	61596HD
	43.5-53.5	8.535 - 8.755	8.250	3.50	4-1/2 EUE	61595HD
13-3/8	54.5-77	12.275 - 12.615	12.000	3.50	4-1/2 EUE	61513HD

***Other sizes and connections available upon request*





WLTC Retrievable Bridge Plug

The MOT **WLTC Retrievable Bridge Plug** is designed to perform all tasks normally required of a tubing run packer-type bridge plug and can be quickly converted to run and set on wireline. It is designed to be rugged and compact (the 4-1/2" size is only 63 inches long).

When run on tubing, the WLTC can be set deep or shallow because the packing element system can be energized with compression or tension. This bridge plug will withstand high differential pressures from above or below, while its internal bypass valve is easily opened to equalize fully prior to release.

Activated slips are always on the low-pressure side with the WLTC design, ensuring that a tight pack-off is maintained. When run

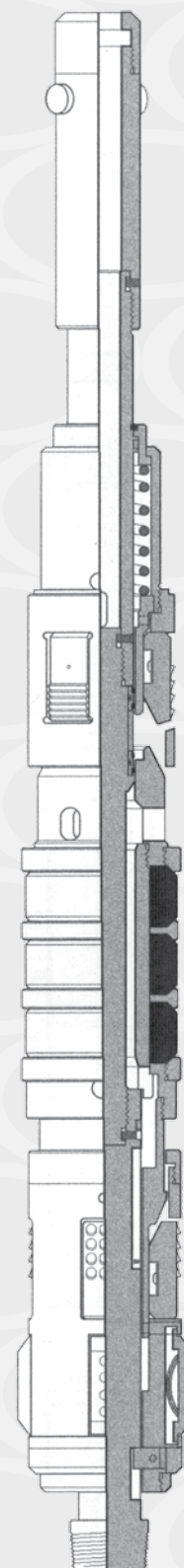
on tubing, a circulation passage through the tool reduces the need for swabbing by allowing fluid to bypass internally. When set, another passage allows effective washing of sand and debris above the elements, ensuring easy release and retrieval.

Standard equipment on the WLTC Retrievable Bridge Plug includes tungsten carbide-tipped slips and drag blocks, which are long-lasting and allow for easy setting in the hardest casings. Mesquite's Spring Loaded Overshot is used to run (tubing set) and retrieve (tubing or wireline set) The WLTC Bridge Plug. Sealer ball catcher assemblies are also available, both for mechanical setting and wireline setting.

SIZE (Inches)	CASING WT.	Tool OD
2-7/8	8.6-8.7	2.125
2-7/8	6.4-6.5	2.300
3-1/2	9.2-10.2	2.781
3-1/2	7.7-9.3	2.844
4	9.5-11.0	3.281
4-1/2	13.5-16.6	3.640
4-1/2	9.5-13.5	3.750
5	15-18	4.125
5	11.5-15	4.250
5-1/2	17-23	4.500
5-1/2	14-20	4.641
5-1/2	13-15.5	2.781
6-5/8	24-32	5.500
6-5/8	20-24	5.750

SIZE (Inches)	CASING WT.	Tool OD
7	32-38	5.750
7	23-29	5.970
7	17-23	6.188
7-5/8	33-39	6.453
7-5/8	24-29	6.672
8-5/8	40-49	7.312
8-5/8	32-40	7.500
8-5/8	24-32	7.844
9-5/8	43.5-53.5	8.250
9-5/8	36-47	8.438
9-5/8	29.3-36	8.594
10-3/4	45.5-55.5	9.500
10-3/4	32.75-45.5	6.688

All dimensions listed in inches.





WRP Wireline Set Bridge Plug

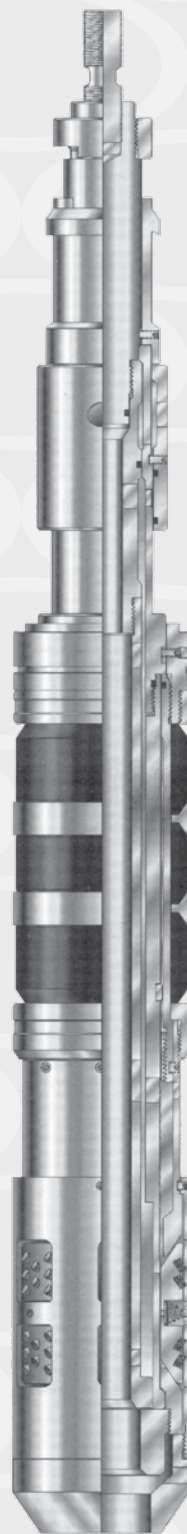
The MOT **WRP** is a wireline set, packer type, retrievable bridge plug capable of holding differential pressure from above or below. Utilizes standard wireline or hydraulic setting tools.

Applications

- ▶ Temporary bridge plug for acidizing, fracturing, cementing, casing pressure tests, well head replacement and zone isolation.

Features

- ▶ Wireline, hydraulic or coiled tubing set
- ▶ Caged bi-directional slips with carbide inserts
- ▶ Balanced equalizing system
- ▶ Bypass valve opens before plug is released
- ▶ Over shot washes to gage ring
- ▶ Straight pull release
- ▶ Rotational safety release mechanism
- ▶ Optional sandline or coiled tubing retrieve
- ▶ Swab resistant packing element system
- ▶ Utilizes parts common with other Mesquite packers
- ▶ Compact design
- ▶ Optional jay, or collet, valve operation



WRP Wireline Set Bridge Plug

Casing				Tool
OD (in./mm)	Weight (lb/ft)	Minimum ID (in./mm)	Maximum ID (in./mm)	Maximum OD (in./mm)
3-1/2 88.9	10.2	2.922 74.22	2.992 76.00	2.781 70.64
3-1/2 88.9	7.7 - 9.2	2.992 76	3.068 77.93	2.867 72.82
4-1/2 114.3	9.5 - 13.5	3.920 99.57	4.090 103.89	3.771 95.78
5 127	15.0 - 18.0	4.276 108.61	4.408 111.96	4.125 104.78
5 127	11.5 - 15.0	4.408 111.96	4.560 115.82	4.250 107.95
5-1/2 139.7	26.0	4.408 111.96	4.560 115.82	4.250 107.95
5-1/2 139.7	20.0 - 23.0	4.670 118.62	4.778 121.36	4.500 114.3
5-1/2 139.7	15.5 - 20.0	4.778 121.36	4.950 125.73	4.641 117.88
5-1/2 139.7	13.0 - 15.5	4.950 125.73	5.190 131.83	4.781 121.44
6 152.4	26.0	5.044 128.12	5.190 131.83	4.781 121.44
6 152.4	20.0 - 23.0	5.240 133.1	5.352 135.94	5.062 128.57
6 152.4	15.0 - 18.0	5.424 137.77	5.524 140.31	5.156 130.96
6-5/8 168.28	34.0	5.561 141.25	5.609 142.47	5.406 137.31
6-5/8 168.28	28.0 - 32.0	5.675 144.14	5.791 147.09	5.484 139.29
6-5/8 168.28	17.0 - 24.0	5.921 150.39	6.135 155.83	5.781 146.84
6-5/8 168.28	24.0	5.830 148.3	5.937 150.8	5.656 143.06
6-5/8 168.28	17.0 - 20.0	6.456 163.98	6.538 166.07	5.812 147.62
7 177.8	38.0	5.830 148.3	5.937 150.8	5.656 143.06
7 177.8	32.0 - 35.0	6.004 152.5	6.094 154.79	5.812 147.62
7 177.8	26.0 - 29.0	6.184 157.07	6.276 159.41	5.968 151.59
7 177.8	23.0 - 26.0	6.276 159.41	6.366 161.7	6.078 154.38
7 177.8	17.0 - 20.0	6.456 163.98	6.538 166.07	6.266 159.16
7-5/8 193.68	33.7 - 39.0	6.625 168.27	6.765 171.83	6.453 163.91
7-5/8 193.68	24.0 - 29.7	6.875 174.62	7.025 178.44	6.672 169.47
7-5/8 193.68	20.0 - 24.0	7.025 178.44	7.125 180.98	6.812 173.02
9-5/8 244.48	47.0 - 53.5	8.535 216.79	8.681 220.5	8.218 208.74
9-5/8 244.48	40.0 - 47.0	8.681 220.5	8.835 224.41	8.437 214.3
9-5/8 244.48	29.3 - 36.0	8.921 226.59	9.063 230.2	8.593 218.96



PSTH Compression Set Bridge Plug

The MOT **PSTH Bridge Plug** is a high pressure, mechanical, compression set, packer type bridge plug that is capable of holding pressure from above or below. Compatible with most left hand set packers.

snap-out, shear out)

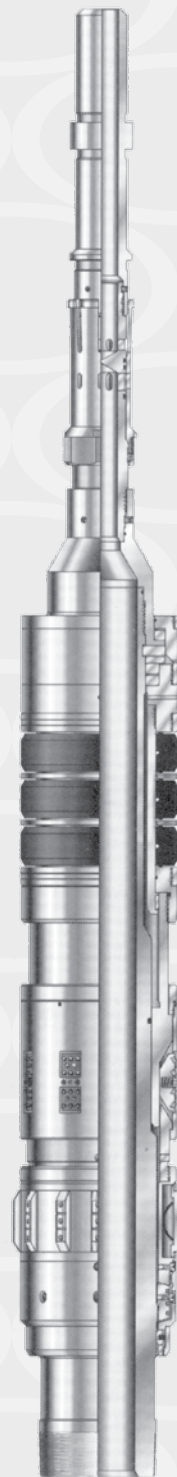
- ▶ Gives positive indication of stinger location

Applications

- ▶ Used as a temporary bridge plug for acidizing, fracturing, casing pressure

Features

- ▶ Same tool operates the valve of several size retainers
- ▶ Deters seals from pumping out the retainer
- ▶ Permits high-pressure tubing testing
- ▶ Multiple safety release (rotate,





PSTH Compression Set Bridge Plug

Casing				Tool	
OD (in./mm)	Weight (lb/ft)	Minimum ID (in./mm)	Maximum ID (in./mm)	Maximum OD (in./mm)	Standard Thread Connection
4-1/2 114.30	9.50 - 13.5	3.920 99.57	4.090 103.89	3.771 95.78	2-3/8" EU 8RD
5 127.00	15.0 - 18.0	4.276 108.61	4.408 111.96	4.125 104.78	2-3/8" EU 8RD
5 127.00	11.5 - 15.0	4.408 111.96	4.560 115.82	4.250 107.95	2-3/8" EU 8RD
5-1/2 139.70	20.0 - 23.0	4.670 118.62	4.778 121.36	4.500 114.30	2-3/8" EU 8RD
5-1/2 139.70	15.5 - 20.0	4.778 121.36	4.950 125.73	4.641 117.88	2-3/8" EU 8RD
5-1/2 139.70	13.0 - 15.5	4.950 125.73	5.044 128.12	4.781 121.44	2-3/8" EU 8RD
6 152.4	26.0	5.950 125.73	5.190 131.83	4.781 121.44	2-3/8" EU 8RD
6 152.4	20.0 - 23.0	5.240 133.1	5.352 135.94	5.062 128.57	2-3/8" EU 8RD
6 152.4	15.0 - 18.0	5.424 137.77	5.524 140.31	5.156 130.96	2-3/8" EU 8RD
6-5/8 168.28	34.0	5.561 141.25	5.609 142.47	5.406 137.31	2-7/8" EU 8RD
6-5/8 168.28	28.0 - 32.0	5.675 144.15	5.791 147.09	5.484 139.29	2-7/8" EU 8RD
6-5/8 168.28	17.0 - 24.0	5.921 150.39	6.135 155.83	5.781 146.84	2-7/8" EU 8RD
6-5/8 168.28	24.0	5.830 148.08	5.937 150.8	5.656 143.66	2-7/8" EU 8RD
7 177.8	38.0	5.830 148.08	5.937 150.8	5.656 143.66	2-7/8" EU 8RD
6-5/8 166.28	17.0 - 20.0	6.049 153.64	6.135 155.83	5.812 147.62	2-7/8" EU 8RD
7 177.8	32.0 - 35.0	6.004 152.5	6.094 154.79	5.812 147.62	2-7/8" EU 8RD
7 177.8	26.0 - 29.0	6.184 157.07	6.276 159.41	5.968 151.59	2-7/8" EU 8RD
7 177.8	23.0 - 26.0	6.276 159.41	6.366 161.7	6.078 154.38	2-7/8" EU 8RD
7 177.8	17.0 - 20.0	6.456 163.98	6.538 166.07	6.266 159.16	2-7/8" EU 8RD
7-5/8 193.68	33.7 - 39.0	6.625 168.28	6.765 171.83	6.453 163.91	2-7/8" EU 8RD
7-5/8 193.68	24.0 - 29.7	6.875 174.63	7.025 178.44	6.672 169.47	2-7/8" EU 8RD
7-5/8 193.68	20.0 - 24.0	7.025 178.44	7.125 180.98	6.812 173.02	2-7/8" EU 8RD
9-5/8 244.48	47.0 - 53.5	8.535 216.79	8.681 220.5	8.218 208.74	2-7/8" EU 8RD
9-5/8 244.48	40.0 - 47.0	8.681 220.5	8.835 224.41	8.437 214.3	3-1/2" EU 8RD
9-5/8 244.48	29.3 - 36.0	8.921 226.59	9.063 230.2	8.593 218.26	3-1/2" EU 8RD
13-3/8 339.3	77.0 - 102.0	11.899 302.23	12.275 311.79	11.620 295.15	4-1/2" IF 4 TPI ~ 2 TPF
13-3/8 339.3	48.0 - 72.0	12.347 313.61	12.715 322.96	12.120 307.85	4-1/2" IF 4 TPI ~ 2 TPF

Spring Loaded Retrieving Tool

The MOT **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 Connection Box Up	Part Number
3-1/2	2.750	1.900 EUE	57735
4	3.125	1.900 EUE	57740
4-1/2	3.750	2-3/8 EUE	57745
5	4.125	2-3/8 EUE	57750
5-1/2	4.500	2-3/8 EUE	57755
		2-7/8 EUE	57756
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
10-3/4	9.312	3-1/2 EUE	57710
11-3/4	10.370	4-1/2 EUE	57711
14	12.000	4-1/2 IF	57714

**Other sizes and connections available upon request*



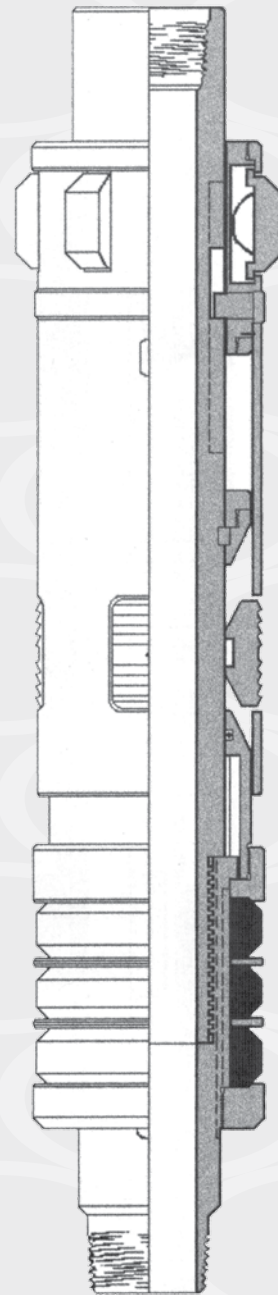
Transpack Cementer

The MOT **Transpack Cementer** is designed to provide a tension set full opening packer for remedial operations such as acidizing, fracturing, squeeze cementing and casing testing. It can also be run above our WLTC Retrievable Bridge Plug (with a special J-slot).

This packer will remain tightly set and packed off with a high-pressure differential from either the tubing or annulus. It has fully enclosed bi-directional slips and large surface area drag blocks, both of which are fitted with

durable tungsten carbide inserts.

The Transpack Cementer is often run above a cup-type retrievable bridge plug for remedial work and leak testing. An unloader that closes in tension, such as the Mesquite Tension Unloader, is run above the packer to provide a means of equalizing tubing and annulus pressure when required. Only a half turn of tubing rotation is necessary to set or release this packer and, if stuck, two emergency release procedures are available.



SIZE (Inches)	CASING WT.	MAXIMUM OD	MINIMUM BORE	CONNECTIONS
2-7/8	8.6-8.7	2.125	0.75	1.315 NU10Rd
2-7/8	6.4-6.5	2.300	0.75	1.315 NU10Rd
3-1/2	7.7-9.3	2.812	1.38	1.900 EU10Rd
4-1/2	9.5-13.5	3.75	1.94	2-3/8 EU8Rd
4-1/2	13.5-16.6	3.640	1.94	2-3/8 EU8Rd
5	15-18	4.12	1.94	2-3/8 EU8Rd
5	11.5-13	4.25	1.94	2-3/8 EU8Rd
5-1/2	20-23	4.50	2.00	2-3/8 EU8Rd
5-1/2	15.5-20	4.60	2.00	2-3/8 EU8Rd
5-1/2	13-15.5	4.78	2.00	2-3/8 EU8Rd
5-1/2	20-23	4.50	2.38	2-7/8 EU8Rd
5-1/2	14-17	4.64	2.38	2-7/8 EU8Rd
5-1/2	13-15.5	4.78	2.38	2-7/8 EU8Rd
6-7/8	20-24	5.75	2.50	2-7/8 EU8Rd
7	32-38	5.75	2.50	2-7/8 EU8Rd
7	20-29	5.97	2.50	2-7/8 EU8Rd
7	17-20	6.19	6.50	2-7/8 EU8Rd

All dimensions listed in inches. Other sizes and connections available upon request.



Type C Perforation Wash Tool

The MOT **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 to any distance by simply adding tubing between the center 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 Connection Box Up/Pin Down	Part Number
Size (inches)	Weight (lbs/ft)				
3-1/2	7.7-10.2*	2.992 - 3.068	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	13-15	4.408 - 4.494	4.000	1.900 NUE	46050
	18-20.3	4.184 - 4.276	4.000	1.900 NUE	46051
5-1/2	13-20	4.778 - 5.044	4.625	2-7/8 EUE	46055
7	20-29	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*

***Other sizes and connections available upon request*



Cross Flow Assembly

The MOT **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

Cross Flow Assembly

Cross Flow Assembly
with ASI-X Packer

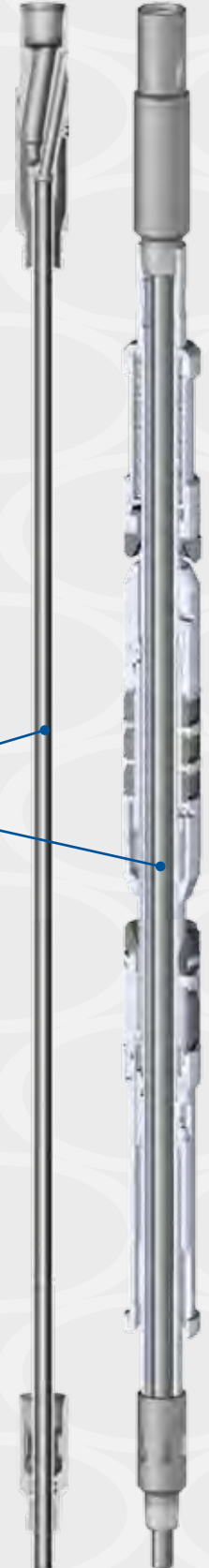
Product Specifications

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	67656
3-1/2	2.00	2.00	3-1/2 EUE	67670-3500EU
4	2.00	2.00	4" NUE	67670-4000NU

Δ **Long Sweep Version** (allows tools to pass through vent side into tailpipe)

Δ 5.75	2.00	2.00	4" NUE	67640LCF
Δ 7.0	2.50	2.50	5" LTC	67650LCF

**Other sizes and connections available upon request*





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