

## SH-SST RETRIEVABLE PACKERS

The SH-SST Storm Packer is a heavy-duty, three-quarter-turn, compression-set, retrievable service packer capable of holding differential pressure from above or below. The packer has a heavy-wall mandrel with tool joint connections that allow it to be set shallow, with the drill-string suspended below. When run in conjunction with a back check valve system, the SH-SST packer secures the well during weather-related emergencies or wellhead repair. The packer can also be used for conventional service work such as acidizing, fracturing, squeeze cementing, and casing tests.

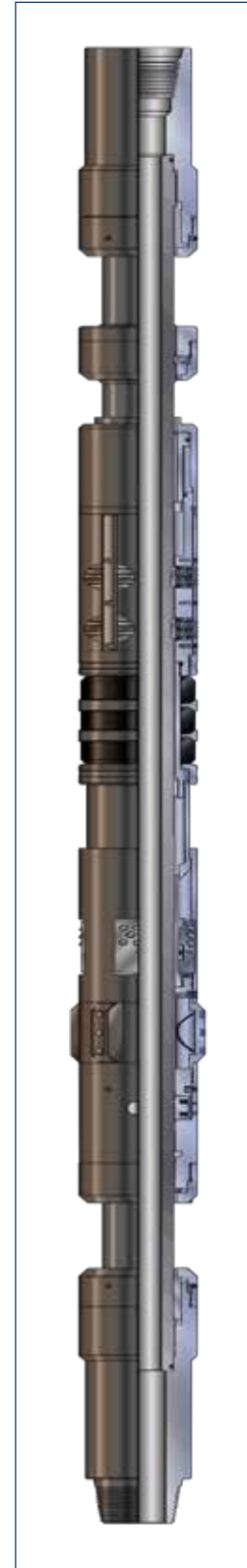
## SPECIAL FEATURES

### Special Features/Benefits

- Sets securely in any hardness casing, including premium grades.
- Heavy-wall mandrel with tool joint connections
- Hydraulic hold-down pistons for pressure from below
- Large bypass area for equalization and circulation
- Caged slips with carbide buttons
- Keyed upper and lower connections for high-torque rating
- Three-quarter turn to set; pick up to release
- Built-in bypass allows equalization and circulation
- Right- or left-hand set available
- Carbide buttons are standard on slips and hold-down buttons for long life and durability
- High tailpipe rating for long drill-strings
- Makes directly to drill-pipe without crossovers
- Easy and economical to redress

### Applications

- Shallow set with drill-pipe suspended below
- Weather-related emergencies or wellhead repair
- Cased-hole DST or production testing
- Squeeze cementing or treating operations



# RETRIEVABLE PACKERS

CASING OD (IN)	CASING WT (LBS/FT)	SETTING RANGE		TOOL ID (IN)	TOOL OD (IN)	CONNECTION		
		MIN ID (IN)	MAX ID (IN)					
4 1/2	15.1-17.7	3.696	3.826	1.75	3.593	2 3/8 IF		
	13.5-17.0	3.74	3.92		3.781			
	11.6-13.5	3.92	4		3.781			
5	15.0-18.0	4.276	4.408		4.125			
	11.5-15.0	4.408	4.56		4.250			
5 1/2	17.0-23.0	4.67	4.892		4.500			
	13.0-17.0	4.892	5.044		4.641			
7	38.0-46.4	5.626	5.92		2.688		5.525	3 1/2 IF
	32.0-38.0	5.92	6.094				5.781	
	26.0-32.0	6.094	6.276	5.954				
	17.0-23.0	6.366	6.538	6.188				
7 5/8	33.7-39.0	6.625	6.765	6.453				
	24.0-29.7	6.875	7.025	6.670				
9 5/8	58.4-59.4	8.407	8.435	3.75		8.250	4 1/2 IF	
	43.5-53.5	8.535	8.755			8.365		
	32.3-43.5	8.755	9.001			8.584		
10 3/4	71.1-73.2	9.406	9.45			9.125		
	60.7-65.7	9.56	9.66		9.375			
	51.0-55.5	9.76	9.85		9.500			
11 3/4	60.0-71.0	10.586	10.772		10.406			
13 3/8	77-102	11.899	12.275		11.625			
	48.0-77.0	12.275	12.715		12.000			
16	109-128	14.438	14.688		14.187			
	52.5-84	15.01	15.396		14.760			