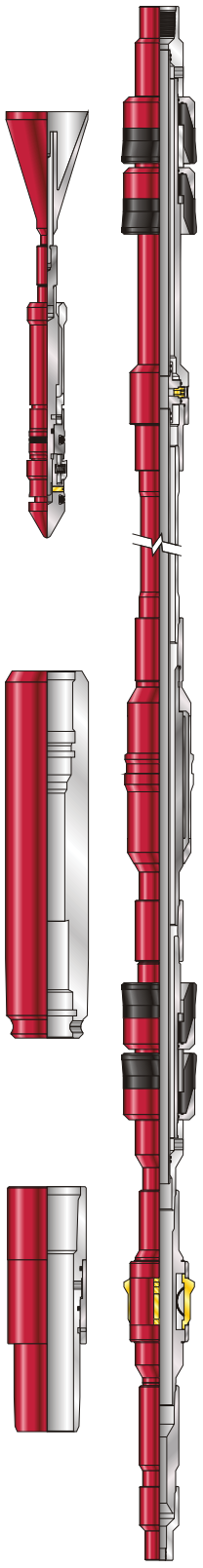
AWT Inflation Cup Tool



Weatherford's acid-wash treatment (AWT) inflation cup tool is a packer-cup isolation tool used for injecting fluids into selected intervals. The tool is designed primarily for selective acidizing treatments, but is appropriate for many other types of treatments and fluids. The AWT can also be used to inflate ACP™ annulus casing packers with mud or cement when pressurizing the casing is either impossible or not necessary.

Applications

- Acidizes in intervals when selective injection is necessary
- Isolates and inflates annulus casing packers
- Isolates and cements through mechanical port collars
- Inflates annulus casing packers and opens, cements, and closes a mechanical port collar in the same run

Features, Advantages and Benefits

- The AWT does not have moving parts, providing a simple and reliable operation.
- The AWT does not use casing slips, enabling the tool to provide a reliable operation in corroded or damaged casing, reducing stress to weaker casing.
- The large, internal bypass system offers several advantages and benefits:
  - As the AWT is deployed, the bypass decreases the surge pressure on the formation, reducing the potential for formation damage and costly mud or fluid loss.
  - The bypass provides fluid circulation, enabling the AWT to be run at a higher speed with no hydraulic lock.
  - The bypass system prevents swabbing of formation fluid into the wellbore, keeping the wellbore clean of debris and minimizing well-control issues.
- Premium packer cups enable the packer to achieve high squeeze pressures, making the AWT suitable for deep wells.
- The AWT does not have a setting-weight requirement, enabling operation in shallow depths and horizontal wells.
- The double-cup system provides redundant sealing, ensuring reliable performance.

AWT Inflation Cup Tool

Specifications

Casing		Tool		Dart	
OD (in./*mm*)	Weight (lb/ft, *kg/m*)	Maximum OD (in./*mm*)	Minimum ID (in./*mm*)	Sealing OD (in./*mm*)	Neck OD (in./*mm*)
3.500 *88.9*	9.2 to 9.3 *1.3 to 1.3*	2.875 *73.0*	0.438 *10.8*	0.625 *15.8*	1.187 *30.1*
4.000 *101.6*	11.0 *1.5*	3.250 *82.5*	0.438 *10.8*	1.125 *28.5*	1.187 *30.1*
4.500 *114.3*	12.6 to 13.5 *1.7 to 1.8*	3.750 *95.3*	1.125 *28.5*	1.125 *28.5*	1.187 *30.1*
	9.5 to 11.6 *1.3 to 1.6*				
5.000 *127.0*	18.0 to 20.3 *2.4 to 2.8*	4.000 *101.6*	1.125 *28.5*	1.125 *28.5*	1.187 *30.1*
	15.0 to 18.0 *2.0 to 2.4*	4.125 *104.8*			
	13.0 to 15.0 *1.7 to 2.0*	4.250 *108.0*			
5.500 *139.7*	17.0 to 20.0 *2.3 to 2.7*	4.641 *117.9*	1.500 *38.1*	1.625 *41.2*	1.187 *30.1*
	15.5 to 17.0 *2.1 to 2.3*				
	13.0 to 14.0 *1.7 to 1.9*	4.781 *121.4*			
7.000 *177.8*	32.0 to 35.0 *4.4 to 4.8*	5.821 *147.9*	1.500 *38.1*	1.625 *41.2*	1.187 *30.1*
	26.0 to 29.0 *3.5 to 4.0*	5.968 *151.6*			
	23.0 to 26.0 *3.1 to 3.5*	6.078 *154.6*			
	17.0 to 20.0 *2.3 to 2.7*	6.266 *159.2*			
7.625 *193.6*	29.7 to 33.7 *4.1 to 4.6*	6.672 *169.5*	1.500 *38.1*	1.625 *41.2*	1.187 *30.1*
	24.0 to 26.4 *3.3 to 3.6*				
9.625 *244.4*	47.0 to 53.0 *6.5 to 7.3*	8.350 *212.1*	2.600 *66.0*	1.625 *41.2*	1.187 *30.1*
10.750 *273.0*	32.7 to 55.5 *4.5 to 7.7*	9.500 *241.3*	1.500 *38.1*		
13.375 *339.7*	54.5 to 72.0 *7.5 to 9.9*	12.000 *304.8*	2.600 *66.0*		