



ARM Selective-Treating Packer

Weatherford's ARM selective-treating packer is set by compression to isolate perforations for acid, chemical, and fracture treatments. The packer is run primarily on coiled tubing and can also be run with jointed tubing.

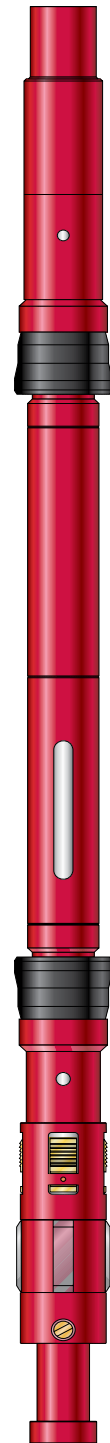
A port enables wellbore fluids to bypass into the annulus while the packer is run to treating depth. The packer is set by moving the tubing up and down and then by applying moderate tubing compression. An internal equalizing valve provides easy packer release and enables the packer to be set multiple times. The bypass port is permanently closed and locked on the first packer setting. Before the packer can be moved or retrieved, the treating fluids and pressure captured between the elements are equalized with the casing below.

Applications

- Coiled or jointed tubing
- Selective perforation acidizing, fracturing, and chemical treatments
- Formation straddling and testing

Features, Advantages and Benefits

- Straddle spacing is easily adjustable in the field in 3-ft (1-m) lengths, enabling the treatment of zones with varying thicknesses.
- The internal fluid-bypass port enables the annulus to fill while running to depth, reducing running time.
- The packer setting and releasing procedures require no tubing rotation, saving rig time.
- The top element provides reverse circulation while the packer is set, and the bottom element assists in perforation flowback and cleanup before the packer is released.





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Features, Advantages and Benefits (continued)

- The high-tensile-strength connections between the elements enable high treatment pressures with minimal tubing compression.
- The packer reduces tri-axial stresses on the low end of the tubing string to reduce deformation and improve durability.
- The compact design maximizes the straddle spacing length in the lubricator, enabling large treatment volumes.
- Treating fluids are contained between the elements until the packer is released to maximize the treatment effectiveness in the selected zone.

Specifications

Casing				Packer	
OD (in./mm)	Weight (lb/ft, kg/m)	ID (in./mm)		Maximum OD (in./mm)	Product
		Minimum	Maximum		
4-1/2 114.3	9.5 to 11.6 14.1 to 17.3	4.000 101.60	4.090 103.89	3.771 95.78	ARM412
	12.6 to 13.5 18.8 to 20.1	3.920 99.57	3.958 100.53		ARM413
5-1/2 139.7	15.5 to 17.0 23.1 to 25.3	4.892 124.26	4.950 125.73	4.641 117.88	ARM512
	17.0 to 20.0 25.3 to 29.8	4.778 121.36	4.892 124.26		ARM513