



### *High-Rate Frac Valve*

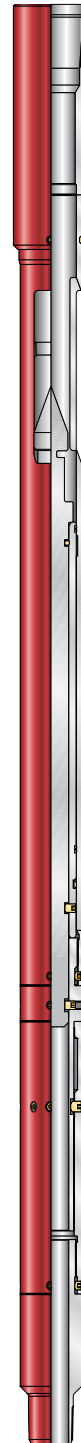
The Weatherford high-rate frac valve is used in conjunction with a thru-tubing retrievable or permanent-style packer to deploy a screen in existing completion tubing. The valve provides a higher performance, economical alternative to conventional vent screen hang-off-style gravel packs. Gravel pack and fracturing operations are made down existing tubing through the frac valve at high-pump rates. When the pack/frac operation is complete, a washdown run is made to shift the sleeve closed, locking proppant around the screen, and into the formation. The system can be deployed on e-line or coiled tubing in one trip, and set in tubing.

#### *Applications*

The high-rate frac valve can be used in single-zone gravel/frac packs, stacked gravel/frac packs, and vertical or deviated wellbores.

#### *Features, Advantages and Benefits*

- The valve's large flow area permits higher pump rates and proppant slurry densities, promoting increased production.
- The valve's locking sleeve improves reliability by helping to assure positive placement of proppant.
- The valve eliminates additional runs for placement of packoff, saving valuable rig time.





## High-Rate Frac Valve

### Specifications

Tubing Size (in./mm)	Tubing Weight (lb/ft, kg/m)  ID Range (in./mm)	Maximum OD (in./mm)	Minimum ID (in./mm)	Flow Area (in. <sup>2</sup> /cm <sup>2</sup> )	Standard Thread Connections (in./mm)		Pressure Rating (psi/MPa)
					Top NU Box	Bottom NU Pin	
2-7/8 3.0	6.5 9.7	2.24 56.90	1.468 37.288	1.602 10.335	1.900 48.260	1.315 33.401	5,000 34.474
	2.375 to 2.494 60.325 to 63.348	2.30 58.42					