



## TUBING SWIVEL

Friction and back-off are two of the biggest problems when working downhole trying to manipulate tools like packers, anchors and bridge plugs. A Kline circulating Tubing Swivel, between the tubing string and elevators, provides the solution by lowering friction to a minimum to both ease rotation and reduce the possibility of backing off the top collar.

Kline's Tubing Swivels allow surface connections to remain in place while the tubing string is rotated or moved vertically. In addition to providing a lifting point for the elevators located above a high-capacity thrust bearing, these swivels also permit one or two connections for discharge or flow lines. A single flow connection, transverse to the tubing axis, is normally provided. Two such transverse connections, or a single in-line connection that allows wireline tools to run through the swivel, are options.

Kline swivels are available in three sizes: Standard, Heavy Duty, and Extra Heavy Duty. The larger sizes are equipped with a box/pin saver sub.

TYPE	PRODUCT NUMBER	STATIC THRUST (lbs)	PRESSURE (psi)	INPUT CONNECTION	TUBING SIZE	ELEVATOR SIZE	TUBING CONNECTION
Standard	5001 F	90,000	10,000	2 L.P.	2 <sup>3</sup> / <sub>8</sub> , 2 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub> , 2 <sup>7</sup> / <sub>8</sub> (3 <sup>1</sup> / <sub>2</sub> OPT.)	2 <sup>7</sup> / <sub>8</sub> EU8Rd
Heavy Duty	5002 G	230,000	10,000	2 L.P.	2 <sup>7</sup> / <sub>8</sub> , 3 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>8</sub> , 3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub> EU8Rd
Extra Heavy Duty	5003 G	308,000	10,000	2 L.P.	2 <sup>7</sup> / <sub>8</sub> , 3 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>8</sub> , 3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub> EU8Rd

*All dimensions listed in inches.*

*Kline swivels are designed for relatively slow rotational speeds and cannot be used for drilling operations.*