



FLO-THRU KNUCKLE JOINT

The **LiMAR**[®] Flo-Thru Knuckle Joint is designed to provide a point of flexibility within a Coiled Tubing Bottom Hole Assembly (BHA).

Internal Seals on the ball joint provide and maintain a seal between the ID & OD of the Flo-Thru Knuckle Joint.

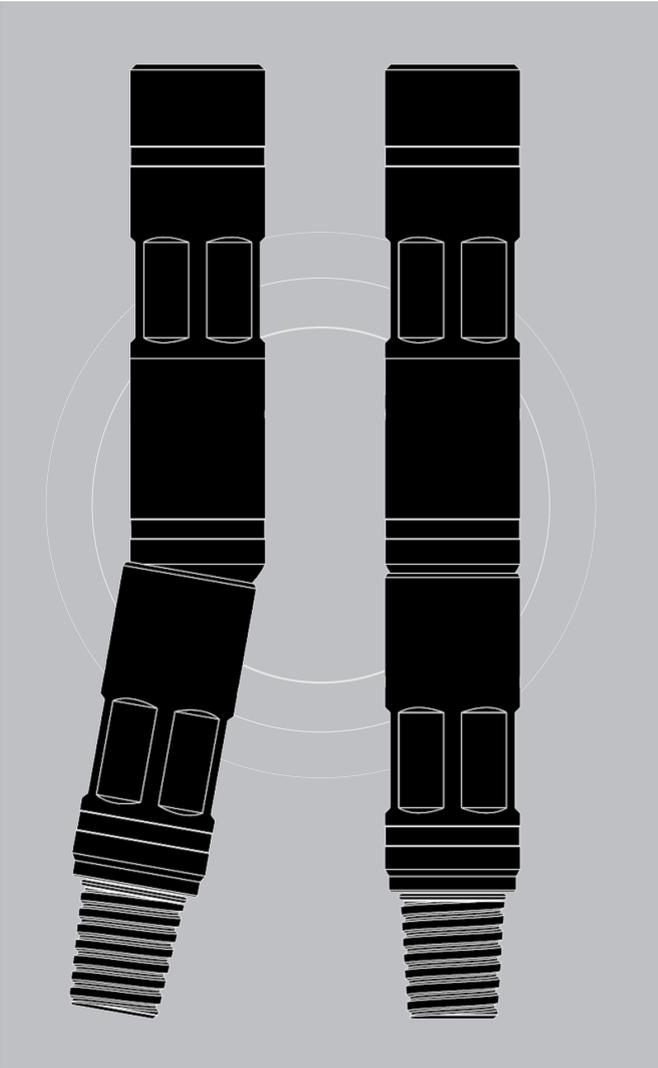
Configuring a Flo-Thru Knuckle Joint within the BHA enables it to pass unrestricted over nipple shoulders, tubing crossovers and other points where a rigid BHA may encounter difficulty.

TOOL APPLICATIONS:

- To provide a point of flexibility within a Coiled Tubing BHA

DESIGN FEATURES & BENEFITS:

- Available in a range of sizes to suit industry standard BHA's
- 10 degree deflection angle from centre line
- Large thru bore
- Sealing ball joint
- Connection options to suit customer requirements
- Simple, robust design ensuring ease of operation for the end user
- Selected components QPQ treated
- Hexagonal flats for safe make-up & break-out
- Corrosion resistant materials



TECHNICAL DATA

Assembly Part No.	Actual OD	Maximum ID	Make up Length
109-1500-XXX-RX	1.500"	0.500"	10.96"
109-1687-XXX-RX	1.687"	0.656"	11.98"
109-1750-XXX-RX	1.750"	0.656"	12.13"
109-2000-XXX-RX	2.000"	0.750"	11.96"
109-2125-XXX-RX	2.125"	0.789"	13.00"
109-2250-XXX-RX	2.250"	0.789"	13.00"
109-2875-XXX-RX	2.875"	1.187"	15.69"
109-3125-XXX-RX	3.125"	1.187"	15.00"

XXX - Last 3 digits of part number denotes connection type - Please refer to the connection code data sheet. For additional sizes or further information please contact sales@limaroiltools.com