



DRILL PIPE SAFETY JOINTS

Overview

The Drill Pipe Safety Joint is designed for the safe and dependable release from drill-ing, fishing, tubing, washover, or testing strings should they become stuck. The simple design of the Drill Pipe Safety Joint has no release ring, which allows for quick disen-gagement procedures of the tool.

Construction

The Drill Pipe Safety Joint comes in a variety of popular sizes for drill pipe strings. We will also design and manufacture safety joints to meet a customer's specific need. The Drill Pipe Safety Joint is made up of a box section and a pin section. Each Safety Joint is designed to withstand internal and external pressures through the use of O-ring seals above and below the threads.

The O.D. and the I.D. of the Logan Drill Pipe Safety Joint match the standard O.D. and I.D. of the tool joint connection that is requested.

Operation

The coarse thread design of the Drill Pipe Safety Joint is resistant to wedging or loos-ening of the tool during operation. The Safety Joint's design allows for the transmission of torque in the left-hand or right-hand direction.

To Disengage the Safety Joint in the Hole

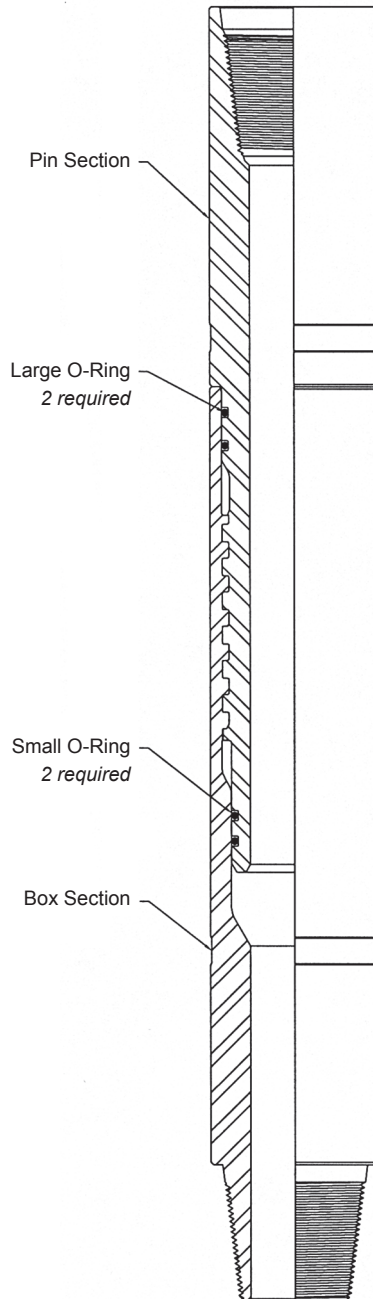
1. Pick up on the drill string until 500 to 1,000 lbs. remains on the Safety Joint. If too much weight is left sitting on the Safety Joint, there is a possibility that damage could occur to the shoulder of the box section when the tool disengages.
2. Rotate the string to the left until approxi-mately 20% to 40% of the tool's right-hand make-up torque is applied.
3. Pick up on the string slowly while rotating to the left to unscrew the Safety Joint. The coarse threads will lift the pipe approximately 1/2" to 1-1/2" (depending on the size of the Safety Joint) for each revolution of the string.
4. Care should be taken to keep a little weight on the Safety Joint as the tool is unscrewed as recommended in Step 1. The operator will be able to see a weight decrease as the Safety Joint separates.

To Reengage the Safety Joint in the Hole

1. Lower the string into the hole until the Pin Section contacts the Box Section.
2. Apply approximately 1,000 lbs. of weight and rotate the string slowly to the right. An increase in torque will indicate that the Safety Joint has reengaged.

When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Connections, if other than standard
- (3) Name and number of any desired spares
- (4) O.D., if other than standard



Drill Pipe Safety Joints

DRILL PIPE SAFETY JOINTS

CONNECTION SIZE	2-3/8	2-3/8	2-7/8	2-7/8	2-7/8	3-1/2	3-1/2
CONNECTION TYPES	API Reg ACME Reg	API IF API FH HYD IF	API Reg ACME Reg	HYD IF	Int Flush	API Reg	HYD IF
TOOL O.D.	3-1/8	3-3/8	3-3/4	3-7/8	4-1/8	4-1/4	4-1/2
BORE	1	1-3/4	1-1/4	2-1/8	2-1/8	1-1/2	2-9/16
COMPLETE ASSEMBLY	601-313	601-338	601-375	601-388	601-413	601-425	601-450
PIN SECTION	Y1000	Y1001	Y1002	Y1003	Y1004	Y1005	Y1006
BOX SECTION	Y2000	Y2001	Y2002	Y2003	Y2004	Y2005	Y2006
O-RING – SMALL	568-325	568-226	568-227	...	568-333	568-333	...
No. Req'd	2	2	2	...	2	2	...
O-RING – LARGE	568-329	568-332	568-333	...	568-337	568-337	...
No. Req'd	2	2	2	...	2	2	...

CONNECTION SIZE	3-1/2	3-1/2	3-1/2	4	4	4-1/2	4-1/2
CONNECTION TYPES	API FH	API Reg	API IF	API FH	Int Flush	API Reg	API FH
TOOL O.D.	4-5/8	4-3/4	4-3/4	5-1/4	5-3/4	5-1/2	5-3/4
BORE	2-7/16	1-1/2	2-11/16	2-13/16	3-1/4	2-1/4	3
COMPLETE ASSEMBLY	601-463	601-475	601-476	601-525	601-575	601-550	601-575
PIN SECTION	Y1007	Y1008	Y1009	Y1010	Y1011	Y1012	Y1013
BOX SECTION	Y2007	Y2008	Y2009	Y2010	Y2011	Y2012	Y2013
O-RING – SMALL	568-337	...	568-337	...	...	...	568-344
No. Req'd	2	...	2	...	...	...	2
O-RING – LARGE	568-341	...	568-341	...	...	...	568-349
No. Req'd	2	...	2	2

Special Notes:

(1) Left-hand connections available upon request.

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CONNECTION SIZE	4-1/2	4-1/2	5-1/2	5-1/2	5-1/2	6-5/8	6-5/8
CONNECTION TYPES	X-HOLE	API IF HYD IF	API Reg	API Reg	API Reg	API Reg	API Reg
TOOL O.D.	6	6-1/8	6-3/4	7	7-3/8	7-3/4	8
BORE	3-1/4	3-3/4	2-3/4	4	4-13/16	3-1/2	5
COMPLETE ASSEMBLY	601-600	601-613	601-675	601-700	601-738	601-775	601-800
PIN SECTION	Y1014	Y1015	Y1016	Y1017	Y1018	Y1019	Y1020
BOX SECTION	Y2014	Y2015	Y2016	Y2017	Y2018	Y2019	Y2020
O-RING – SMALL	...	568-347	...	...	...	568-355	568-435
No. Req'd	...	2	...	...	...	2	2
O-RING – LARGE	...	568-429	...	...	...	568-359	568-438
No. Req'd	...	2	...	...	...	2	2

CONNECTION SIZE	6-5/8	7-5/8	8-5/8
CONNECTION TYPES	API IF	API Reg	API Reg
TOOL O.D.	8-1/2	9	10
BORE	5-29/32	4	4-3/4
COMPLETE ASSEMBLY	601-850	601-900	601-1000
PIN SECTION	Y1021	Y1022	Y1023
BOX SECTION	Y2021	Y2022	Y2023
O-RING – SMALL	...	568-361	...
No. Req'd	...	2	...
O-RING – LARGE	...	568-363	...
No. Req'd	...	2	...

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- (3) Name and number of any desired spares
- (4) O.D., if other than standard.