

BOWEN ROTARY TAPER TAPS

Manual No. 5/2800

INSTRUCTION MANUAL

BOWEN ROTARY TOOL SERVICE UNIT

GENERAL DESCRIPTION

BOWEN ROTARY TAPER TAPS are the simplest means available for engaging a fish internally and retrieving it. This tool has been skillfully designed to obtain the greatest benefit from a basic, one-piece tool.

USE

The BOWEN ROTARY TAPER TAP is used to engage and retrieve tubing, drill pipe, casing and other similar tubular items having bores, from any well bore. They are particularly valuable in cases where the annulus between the fish and the well bore is too narrow to permit engaging the outside diameter of the fish.

CONSTRUCTION

BOWEN ROTARY TAPER TAPS are externally threaded with a proven buttress form wicker, cut on a 3/4" taper. This taper is the same as standard casing thread tapers, and has proven to be the most effective.

Standard Taper Taps are plain, with no flutes and not threaded for Guides. Flutes will be provided when specified at no additional charge. Threads will be provided on special order at extra cost for attachment of a Guide or Skirt and Guide (or Oversize Guide). A Thread Protector is furnished when the Tap is provided with Skirt and Guide threads.

ALL BOWEN TAPER TAPS are bored with a generous watercourse hole.

Unless otherwise specified, each Tap is furnished with the connection shown in the table below.

These Taps are available either right-or left-hand, but will be furnished right-hand engaging unless otherwise specified.

OPERATION

Attach the proper Taper Tap to the fishing string. Run it into the hole to fish depth, and establish circulation. When fish depth is reached, cease circulation and engage the fish. Apply only one point of weight or less. Slowly rotate sufficient to embed the Taper Tap wickers into the fish. Cease rotation and pull the fish. Circulation may be resumed to add lift to the fish, if desired.

TAPER TAPS

| | | | | | | | | | | |
|----------------------|-----------------------------|------------------------|------------------------|-------------|------------------------|---------------|-----------------------------|------------------------|--|-------------|
| NOMINAL SIZE | 5/8 S.R. | 3/4 S.R. | 1-13/16 F.J. | 1 EUE | 7/8 S.R. | 1-1/4 EUE | 2-3/8 EUE | 2-3/8 Reg. | 2-3/8 I.F. | |
| OUTSIDE DIAMETER | 1-1/2 | 1-3/4 | 1-13/16 | 1.9 | 2-5/16 | 2-3/8 | 3-1/16 | 3-1/8 | 3-3/8 | |
| TO CATCH | 1/2 I.D. 1 I.D. | 5/8 I.D. 1-1/4 I.D. | 3/4 I.D. 1-3/8 I.D. | 1 PIPE | 7/8 I.D. 1-1/2 I.D. | 1-1/4 PIPE | 2-3/8 O.D. PIPE & CPL | 2-3/8 API Reg. T.J. | 2-3/8 API API I.F. HYD. I.F. T.J. | |
| TOTAL LENGTH | 16 | 18 | 18 | 18 | 20 | 20 | 23 | 23 | 23 | |
| DIA. SMALLEST WICKER | 3/8 | 1/2 | 5/8 | 3/4 | 3/4 | 7/8 | 1-5/8 | 5/8 | 1-3/8 | |
| DIA. LARGEST WICKER | 1-1/4 | 1-1/2 | 1-5/8 | 1-3/4 | 1-3/4 | 1-7/8 | 2-5/8 | 1-5/8 | 2-3/8 | |
| COMPLETE ASSEMBLY | Part No. ... Weight | 25939 11 | 14458 12 | 15247 15 | 25880 16 | 14448 19 | 25881 20 | 25882 23 | 15233 24 | 15234 31 |

| | | | | | | | | | | |
|----------------------|-----------------------------|---|------------------------|--------------------------------|----------------------------------|----------------------------|---------------------|-------------------------|---|--------------|
| NOMINAL SIZE | 2-7/8 Reg. | 2-7/8 I.F. | 3-1/2 Reg. | 3-1/2 F.H. | 3-1/2 I.F. | 4-1/2 REED D.S. | 4 F.H. | 4-1/2 Reg. | 4-1/2 F.H. | |
| OUTSIDE DIAMETER | 3-3/4 | 4-1/8 | 4-1/4 | 4-5/8 | 4-3/4 | 5 | 5-1/4 | 5-1/2 | 5-3/4 | |
| TO CATCH | 2-7/8 API Reg. T.J. | 2-7/8 PIPE API-I.F. HYD. I.F. T.J. | 3-1/2 API Reg. T.J. | 3-1/2 PIPE API-F.H. T.J. | 3-1/2 I.F. T.J. 3-1/2 PIPE | 4-1/2 REED D.S. T.J. | 4 API- F.H. T.J. | 4-1/2 API- Reg. T.J. | 4 I.F. T.J. 4 PIPE 4-1/2 F.H. T.J. 4-1/2 PIPE | |
| TOTAL LENGTH | 23 | 23 | 29 | 29 | 29 | 29 | 32 | 32 | 32 | |
| DIA. SMALLEST WICKER | 7/8 | 1-3/4 | 1 | 1-5/8 | 2-3/16 | 2-5/16 | 2-5/16 | 1-3/4 | 2-5/8 | |
| DIA. LARGEST WICKER | 1-7/8 | 2-3/4 | 2-1/2 | 3-1/8 | 3-11/16 | 3-13/16 | 3-15/16 | 3-3/8 | 4-1/4 | |
| COMPLETE ASSEMBLY | Part No. ... Weight | 19487 36 | 19488 41 | 19489 56 | 19490 70 | 19491 82 | 25883 90 | 25884 96 | 19492 105 | 19493 120 |

| | | | | | | | | | |
|----------------------|-----------------------------|-------------------------------------|------------------------------------|--|--|---------------------------|-----------------------------------|--------------|--|
| NOMINAL SIZE | 4-1/2 X.H. | 4-1/2 I.F. | 5-1/2 Reg. | 5-1/2 F.H. | 5-1/2 I.F. | 6-5/8 Reg. | 6-5/8 F.H. | | |
| OUTSIDE DIAMETER | 6 | 6-1/8 | 6-3/4 | 7 | 7-3/8 | 7-3/4 | 8 | | |
| TO CATCH | 4-1/2 X.H. T.J. | 4-1/2 I.F. T.J. 4-1/2 PIPE | 5-1/2 or 5-9/16 Reg. T.J. | 5-1/2 or 5-9/16 F.H. T.J. or PIPE | 5-1/2 or 5-9/16 I.F. T.J. or PIPE | 6-5/8 API Reg. T.J. | 6-5/8 API I.F., F.H. & PIPE | | |
| TOTAL LENGTH | 32 | 32 | 34 | 34 | 34 | 34 | 34 | | |
| DIA. SMALLEST WICKER | 2-7/8 | 3-1/4 | 2-1/4 | 3-5/8 | 4-1/4 | 3 | 4-5/8 | | |
| DIA. LARGEST WICKER | 4-1/2 | 4-3/4 | 4 | 5-3/8 | 6 | 4-3/4 | 6-3/8 | | |
| COMPLETE ASSEMBLY | Part No. ... Weight | 25885 126 \$275.00 | 19494 132 | 15240 164 | 15241 186 | 15242 198 | 15243 215 | 15244 242 | |

HOW TO ORDER

- Specify: (1) Number of Assembly.
 (2) Sizes of Fish to be Caught.
 (3) Top Connection; Size & Type.

