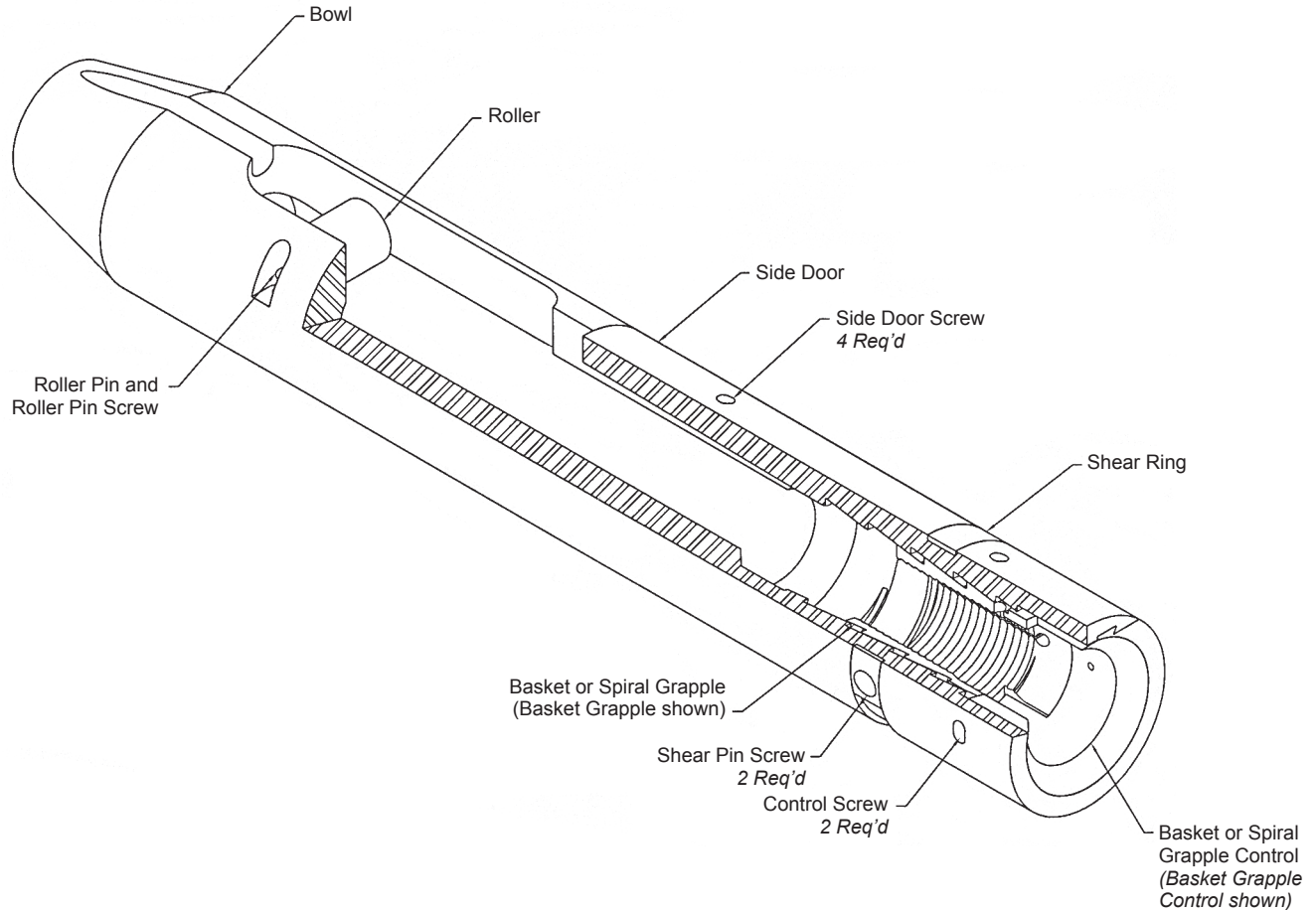




SERIES 160 SIDE DOOR OVERSHOTS



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Overview

A Series 160 Side Door Overshot is recommended when fishing for cable tools or conductor lines in cased holes. The side door overshot is run in on tubing or drill pipe. Line can be fed into the tool by removing the door on the side of the bowl. The door is put back into position after the line is in place. The feature eliminates the necessity of cutting the line or cable and the possibility of the lines fouling when there are two lines in the hole.

Construction

Principal parts of the Series 160 Side Door Overshot are a bowl, grapple, and grapple control.

Operation

Remove the side door and interior parts. Place the bowl on the cable and fasten the side door. Slip the grapple onto the cable and screw into place in the bowl. Slip the grapple control into place and fasten the control screws.

Run in the overshot. As the overshot nears the fish, slowly rotate the string to the right as it is gradually lowered over the fish. The wickered grapple will engage the fish. Continued lowering and right-hand rotation of the string will move the grapple upward within the bowl. The grapple will expand to allow easy entry of the fish.

To Pull the Fish

Release torque out of the string and exert an upward strain on the pipe. The friction of the fish on the grapple wickers will pull the grapple down into the bowl. This causes the grapple to contract and tightly grip the fish. Maintain an upward strain on the string to pull the fish out of the hole.

To Release from a Fish

Bump down to break the grip. Gradually raise the string while slowly rotating it to the left.

Follow the same procedure to release from a recovered fish being sure to hold the fish below the overshot.

When ordering, please specify:

- (1) Complete assembly or part number
- (2) Line diameter



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| | | | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MAXIMUM CATCH SIZE (Spiral) | 2 | 2 | 2-3/8 | 2-3/8 | 2-3/8 | 3-1/8 | 3-21/32 |
| MAXIMUM CATCH SIZE (Basket) | 1-1/2 | 1-1/2 | 1-7/8 | 1-7/8 | 1-7/8 | 2-5/8 | 3-1/8 |
| OVERSHOT O.D. | 3-1/8 | 3-3/4 | 4 | 4-1/2 | 4-1/2 | 4-11/16 | 5-1/2 |
| COMPLETE ASSEMBLY | 160-313 | 160-375 | 160-400 | 160-450 | 160-451 | 160-469 | 160-550 |
| Bowen No. | 15955 | C11145 | 9560 | 6400 | 9985 | 9965 | 9920 |

COMPONENT PARTS

| | | | | | | | | |
|-------------------------------|-----------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|
| BOWL | | AK1000 | AK1001 | AK1002 | AK1003 | AK1004 | AK1005 | AK1006 |
| Bowen No. | | 15957 | C11146 | 9562 | 6401 | 9986 | 9966 | 9921 |
| ROLLER | | AK2000 | AK2001 | AK2002 | AK2003 | AK2003 | AK2004 | AK2005 |
| Bowen No. | | 15961 | A5440 | 9566 | 6456 | 6456 | 9967 | 9922 |
| ROLLER PIN | | AK3000 | AK3001 | AK3002 | AK3003 | AK3003 | AK3004 | AK3005 |
| Bowen No. | | 15962 | A11296 | 9567 | 6457 | 6457 | 9968 | 9923 |
| ROLLER PIN SCREW | | AK4000 | AK4000 | AK4000 | AK4000 | AK4000 | AK4000 | AK4001 |
| Bowen No. | | 9568 | 9568 | 9568 | 9568 | 9568 | 9568 | 9924 |
| SHEAR RING | | AK5000 | AK5001 | AK5002 | AK5003 | AK5003 | AK5004 | AK5005 |
| Bowen No. | | 15958 | A14221 | 9564 | 6422 | 6422 | 9970 | 9925 |
| SHEAR RING SCREW | | AK6000 | AK6001 | AK6002 | AK6003 | AK6003 | AK6002 | AK6004 |
| Bowen No. | | 6460 | 23124 | 8593 | 25220 | 25220 | 8593 | 9906 |
| | No. Req'd | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| SPIRAL GRAPPLE | | AK7000 | AK7001 | A50025 | A50025 | A50025 | A5010 | A5019 |
| Bowen No. | | 1811 | 11147 | 1448 | 1448 | 1448 | 1741 | 6662 |
| SPIRAL GRAPPLE CONTROL | | AK8000 | AK8001 | AK8002 | AK8002 | AK8002 | AK8003 | AK8004 |
| Bowen No. | | 15965 | A11148 | 6403 | 6403 | 6403 | 9973 | 9927 |
| CONTROL SCREW | | AK9000 | AK9001 | Q3012 | AK9003 | AK9003 | AK9001 | AK9004 |
| Bowen No. | | 15966 | 9933 | 9558 | 6459 | 6459 | 9933 | 9928 |
| | No. Req'd | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| TOP SUB (see Note 1) | | ... | ... | ... | AK10000... | | | |
| Bowen No. | | ... | ... | ... | 7243, 7244 | ... | ... | ... |
| SIDE DOOR SCREW | | Q3002 | AK11001 | AK11002 | AK4000 | AK9001 | Q3012 | Q3012 |
| Bowen No. | | 8181 | 23507 | 9559 | 9568 | 9933 | 9558 | 9558 |
| | No. Req'd | 4 | 6 | 6 | 4 | 4 | 44 | 44 |
| BASKET GRAPPLE | | AK12000 | AK12001 | AK12002 | AK12002 | AK12002 | AK12003 | AK12004 |
| Bowen No. | | 15956 | B11147 | 6402 | 6402 | 6402 | 9972 | 9934 |
| BASKET GRAPPLE CONTROL | | AK13000 | AK13001 | AK13002 | AK13002 | AK13002 | AK13003 | AK13004 |
| Bowen No. | | 15965 | B11148 | 6403 | 6403 | 6403 | 9973 | 9927 |

Special Notes:

(1) Assembly number 160-450 (6400) has a straight thread top connection in bowl and requires special top subs.

Recommended Spare Parts:

- (1) 2 Grapples for each size, Basket and Spiral
- (2) 2 Grapple Controls for each size