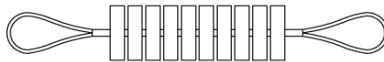


FLEXIBLE POLYURETHANE MANDREL



RUBBER CONDUIT SWAB



LEATHER WASHER CONDUIT CLEANER

CONDUIT SIZE (INCHES)	MANDREL DIAMETER (INCHES)
2	1.88
3	2.81
5	4.69

DISTRIBUTION CONSTRUCTION STANDARD
EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON

MANDRELING AND CLEANING OF CONDUIT

Approved May 09, 2016

GC5-2.3600

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1.0 CONSTRUCTION NOTES:

1.1 A customer must follow these steps when using a mandrel to “prove” a conduit system.

Step 1 - Select the appropriate sized mandrel for the conduit to be proven, see page 1 of 2 for mandrel diameters.

Step 2 - To pull mandrel through the conduit, securely tie one end of a pulling string to the pulling eye of the mandrel. (Pulling string shall be capable of a minimum 285 lb pull and be previously installed).

Step 3 - Securely tie a second section of pulling string to the pulling eye located on the other end of the mandrel. This string must be long enough to replace the pre-installed pulling string completely. This string ensures that a run of pulling string remains in the conduit after the mandreling process. It also will allow the mandrel to be pulled back out of the conduit if the conduit is blocked.

Step 4 - After both the pulling strings are attached securely to the mandrel, insert the mandrel into one end of the conduit and slowly pull the string from the opposite end of the conduit.

Step 5 - Slowly pull the mandrel through the conduit by hand. Both the customer pulling the string and the EWEB inspector checking the string shall be present during the pull.

1.2 If the mandrel passes through the conduit without encountering any blockage or obstruction, the EWEB inspector shall approve the conduit for use.

1.3 If the conduit cannot be successfully pulled through the complete conduit system, it will NOT be approved and it is the customer’s responsibility to locate and repair the conduit. After conduit has been repaired, a re-testing to “prove” the conduit is required.

2.0 DESIGN NOTES:

2.1 EWEB mandrels are sized to “prove” 2”, 3” and 5” schedule 40 PVC conduits and 5” DB-120 conduit systems only.

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3.0 REFERENCE STANDARDS:

- A Refer to EC5-9.1100 for Schedule 40 PVC conduits.
- B Refer to EC5-9.1700 for Schedule 40 PVC elbows.
- C Refer to EC5-9.2300 for PVC coupling & conduit caps.