

OPERATING INSTRUCTIONS

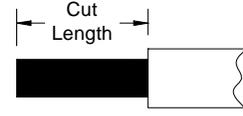


**Design &
Manufacturing Ltd.**



DUCT ROD FITTINGS

INSTALLATION

| Duct Rod Size | 57100 Splice Connectors | 57130 Female Rod End | 57135 Male Rod End | 57140 Swivel Connector |  Rod jacket cut-back |
|---------------|-------------------------|----------------------|--------------------|------------------------|--|
| 1/8" | 57100-000 | N/A | 57135-000 | N/A | 1/2" |
| 3/16" | 57100-001 | N/A | 57135-001 | N/A | 1/2" |
| 1/4" | 57100-003 | 57130-003 | 57135-003 | 57140-003 | 1" |
| 5/16" | 57100-005 | 57130-005 | 57135-005 | 57140-005 | 1" |
| 3/8" | 57100-004 | 57130-004 | 57135-004 | 57140-004 | 1-1/4" |
| 7/16" | 57100-006 | 57130-006 | 57135-006 | 57140-006 | 1-1/4" |
| 1/2" | 57100-007 | 57130-007 | 57135-007 | 57140-007 | 1-1/4" |

- DCD recommends the **screwed attachment** of these accessories to the Duct Rod. However, gluing them in the traditional manner is also acceptable. In tests, the screwed attachment yields about 20% better holding over the glued connection and is much quicker to install with no drying time required.
- In either case, the polypropylene jacket of the Duct Rod must be carefully cut back to expose a length of fiberglass core. That length is indicated in the table above. Care must be taken during this operation not to cut into the fiberglass core or it will become weakened at that point.
- For making attachments to either the 1/8" or 3/16" rod where screwed attachments are not available, or if the glue method is preferred, use Loctite Glue (DCD p/n 57170-008).
- It is possible and acceptable to use both the glue and the screw attachment.

DUCT ROD ACCESSORIES

INSTALLATION

If either a **Deluxe Duct Rodder** or if an **Accessory Kit** for a Standard Duct Rodder is purchased, the extra accessories are supplied in an easily attached cloth bag.

A listing of those accessories is shown below.

| Accessory Kit Item | 57000-000 For 1/8" Rod | 57000-001 For 3/16" Rod | 57000-003 For 1/4" Rod | 57000-005 For 5/16" Rod | 57000-004 For 3/8" Rod | 57000-006 For 7/16" Rod | 57000-007 For 1/2" Rod |
|--------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|
| Splice Connector | 57100-000 | 57100-001 | 57100-003 | 57100-005 | 57100-004 | 57100-006 | 57100-007 |
| Pulling Eye | 57120-000 | 57120-001 | 57120-002 | 57120-002 | 57120-004 | 57120-004 | 57120-004 |
| Flex. Guide Head | 57110-001 | 57110-001 | 57110-002 | 57110-002 | 57110-004 | 57110-004 | 57110-004 |
| Roller Guide | N/a | 57150-001 | 57150-002 | 57150-002 | 57150-004 | 57150-004 | 57150-004 |
| Clevis End | N/a | N/a | 57160-002 | 57160-002 | 57160-004 | 57160-004 | 57160-004 |
| Glue | 57170-008 | 57170-008 | 57170-008 | 57170-008 | 57170-008 | 57170-008 | 57170-008 |
| Gripper | 57170-006 | 57170-006 | 57170-006 | 57170-006 | 57170-006 | 57170-006 | 57170-006 |
| Male Rod End | 57135-000 | 57135-001 | N/a | N/a | N/a | N/a | N/a |

DUCT ROD ACCESSORIES

ACCESSORY USAGE

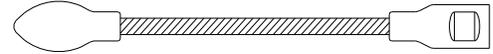
Splice Connector:

These parts are used in the event the Rod breaks. If this happens, the ends must be cut square and then prepared as shown in INSTALLATION on this sheet. The user should beware that the rod will not bend as well with a Splice connector in place due to the unbending nature of the connector itself.



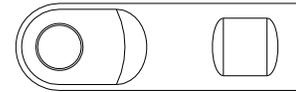
Flexible Guide Heads:

These parts are used for leading the rod around tight bends. The three larger sizes are Stainless Steel and Aluminum while the smaller sizes are Brass. The connecting section is wire rope allowing the heads to flex.



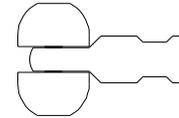
Pulling Eyes:

These parts are used for tying wire or pull tape to the end of the rod or may also be used as a leader. They attached directly onto the Rod end supplied with the rodder.



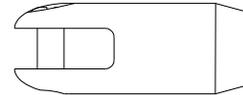
Roller Guides:

These parts allow the pushing of a rodder through conduit with cable already in place. The rollers prevent the rod from wedging itself under the existing cable. They attached directly onto the Rod end supplied with the rodder.



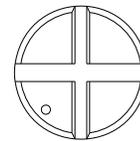
Clevis ends:

These parts are also used for tying wire or pull tape to the end of the rod and sometimes will negate the need to use a shackle. They attached directly onto the Rod end supplied with the rodder



Gripper:

This part is simply to enable a better grip on the rod when pulling back through the duct. Often the rod gets wet and slippery inside the duct and is difficult to grip – this part allows a much stronger grip when pulling back.



OPTIONAL ACCESSORIES

Sonde Adaptor:

These are used to attach a Sonde unit onto the end of a Duct Rod. They are available in different sizes and in either solid or flexible styles.

DCD always recommends that if there is no flexible portion in the Sonde unit itself, then a Flexible adaptor should be used. Without any flexibility in the total length, it will be difficult to go around any kind of bend in the conduit.

