

# Collet Lock Out Tool (CLOT)

## ISO 13628-8 Type B

The CLOT was designed as a methods to operate linear actuated gate valves on subsea manifolds and trees. It enables the user to access Type B interface flanges located as deep as 25 inches below the manifold cover plate. The CLOT operates on intensified hydraulic power supplied by an ROV and can be deployed for short or long term subsea use.



### FEATURES

**Field proven design**

**Short or long term deployment**

**Optional hydraulic intensifier**

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## Technical data

| Hydraulic                             |   |                     |  |
|---------------------------------------|---|---------------------|--|
| Depth rating                          | 10,000 fsw / 3,000 msw  | Piston force        | 250,000 lbf @ 10,000 psi                         |
| Operating pressure                    | 1,600 psi   | CLOT body material  | UNS S14700 (short term)                          |
| Weight in air/water                   | 540/465 lb<br>245/211 kg                                      | Piston material     | UNS S17400 (short term)                          |
| Dimensions                            | 14 in diameter x 48 in long<br>35.6 cm diameter x 122 cm long | Piston stroke       | Up to 10 in                                      |
| ROV interface                         | 17H dual port hot stab  | Mechanical          |  |
| Intensifier max input/output pressure | 2,500 psi / 10,000 psi  | Depth rating        | 10,000 fsw / 3,000 msw                           |
| Piston max operating pressure         | 10,000 psi  | Weight in air/water | 320/280 lb<br>145/127 kg                         |
|                                       |   | Dimensions          | 17.5 in diameter x 42 in long<br>44.5 x 106.7 cm |
|                                       |   | Design load         | 160,000 lbf                                      |
|                                       |   | Materials           | Nitronic 50<br>UNS S31600                        |

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