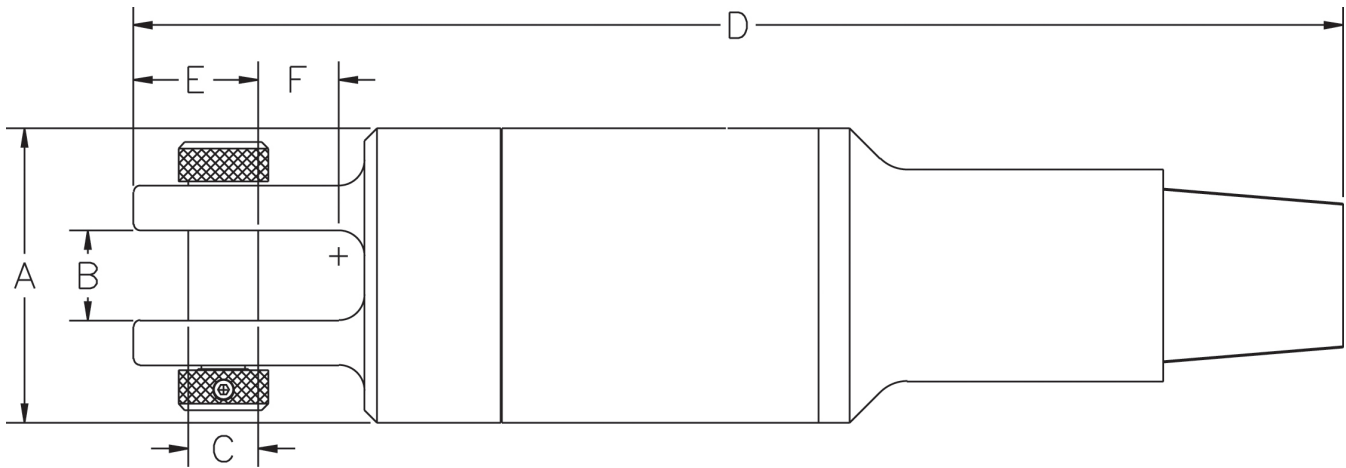


OPERATING SPECIFICATIONS



SERIES 00508 DUB-SWIVEL® STYLE 7

1. The DUB-Swivel® is specifically designed for directional drilling applications. It is intended for coupling the cutting head to the utility being pulled back. The swivel permits rotation of the drill pipe and cutting head while protecting the utility from twisting.
2. The style 7 swivel has a female clevis located on one end and a pin connection on the other.



Part Number	Safe Working Limit	Ultimate Load	Pin Thread	A	B	C	D	E	F	Net Weight
00508-710-23M	20,000 lb 89 kN	100,000 lb 445 kN	2-3/8 REG API	3-3/4" 95 mm	1-1/2" 38 mm	1" 25 mm	15" 381 mm	1-9/16" 40 mm	1-1/16" 27 mm	29 lb 13 kg
00508-715-23M	30,000 lb 133 kN	150,000 lb 667 kN	2-3/8 REG API	4-3/4" 121 mm	1-3/4" 44 mm	1-1/8" 29 mm	18-3/16" 462 mm	2" 51 mm	1-9/16" 40 mm	55 lb 25 kg
00508-715-27M	30,000 lb 133 kN	150,000 lb 667 kN	2-7/8 IF API	4-3/4" 121 mm	1-3/4" 44 mm	1-1/8" 29 mm	19" 483 mm	2" 51 mm	1-9/16" 40 mm	76 lb 34 kg
00508-720-27M	40,000 lb 178 kN	200,000 lb 890 kN	2-7/8 IF API	5-3/4" 146 mm	1-3/4" 44 mm	1-3/8" 35 mm	19-1/8" 486 mm	2-7/16" 62 mm	1-9/16" 40 mm	84 lb 38 kg
00508-730-27M	60,000 lb 267 kN	300,000 lb 1334 kN	2-7/8 IF API	6" 152 mm	1-3/4" 44 mm	1-3/8" 35 mm	19-1/8" 486 mm	2-7/16" 62 mm	1-9/16" 40 mm	87 lb 39 kg
00508-740-27M	80,000 lb 356 kN	400,000 lb 1779 kN	2-7/8 IF API	6-1/2" 165 mm	2-1/8" 54 mm	1-3/4" 44 mm	23-11/16" 602 mm	3-1/4" 83 mm	2" 51 mm	142 lb 64 kg
00508-710V	20,000 lb 89 kN	100,000 lb 445 kN	2.06-8 STARTER ROD	3-3/4" 95 mm	1-1/2" 38 mm	1" 25 mm	16-3/8" 416 mm	1-9/16" 40 mm	1-1/16" 27 mm	29 lb 13 kg
00508-715V	30,000 lb 133 kN	150,000 lb 667 kN	2.06-8 STARTER ROD	4-3/4" 121 mm	1-3/4" 44 mm	1-1/8" 29 mm	19-3/4" 502 mm	2" 51 mm	1-9/16" 40 mm	55 lb 25 kg

Dimensions and weights subject to change without notice.

Tolerances for dimensions on cast parts (B, D, E, F) are $\pm 1/16"$ of the stated value.

The **Safe Working Limit** is calculated using a 5:1 safety factor based on the ultimate load.

The **Ultimate Load** is the tensile loading required to separate the DUB-Swivel® into two or more parts.

OPERATING INSTRUCTIONS



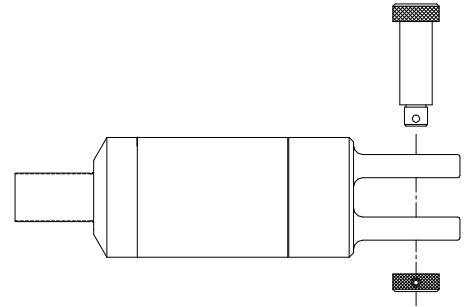
Design &
Manufacturing Ltd.

SERIES 00508 DUB-SWIVEL® STYLE 7



INSTALLATION

1. Remove the socket head cap screws and lock washers from the clevis pin nuts.
2. Unscrew the clevis pin nuts from the clevis pins and remove the clevis pins from the swivel.
3. Insert the items you want to attach into the clevis ends. Re assemble the clevis pins and nuts.



SAFETY

The DUB-Swivel® is designed to operate only within its specified safe working limit (see *Operating Specifications*). Operation of the DUB Swivel® at loads in excess of its **safe working limit** will void the warranty as that may cause permanent bearing damage even though separation due to failure will not occur until the specified **ultimate load** is reached.



Rotating parts can cause death or serious injury! Stay well clear. Do not wear loose clothing.



Make sure that all components of the pulling system are able to withstand the maximum pulling loads. Components not rated for the pull force may break and release the stored energy of the pull. Never use a worn, defective or incomplete component.



Be prepared for the unexpected. Always use recognized safety practices and wear recognized safety equipment.



Do not modify or dismantle the DUB-Swivel®. It has been assembled, and inspected and is only covered by a warranty in its "as shipped" form. Any attempt to dismantle or modify the swivel will result in the warranty becoming void.



Replace worn or damaged clevis pins with only DCD parts. The Clevis Pin is designed specifically for this application. It is manufactured and heat treated in a manner to satisfy both design requirements and claimed capacities. Use of any other product as a replacement part will void the warranty and may result in property damage, severe bodily harm, or death to operators or persons nearby. In any instances, the DCD warranty will be voided and DCD will accept no responsibility for product failure or personal injury.

OPERATING INSTRUCTIONS

SERVICE



After each use, while the machine is still rotating, use a water hose to wash all dirt from the split line groove. Pour oil into the groove and rotate the swivel a couple of turns to protect the mechanical seal from drying out. Failure to do so will allow mud to dry inside the cavity above the seals, which may damage the rubber portion of the seals.



Assess the condition of the swivel checking for wear and external damage. Check for axial and radial play in the bearings. Replace worn or bent clevis pins.



Lubricate the swivel with a **lithium-based grease** containing an extreme pressure (EP) additive (the swivel has been factory lubricated with **Renolit S2TX** grease). Do not mix with calcium or other based greases. Use a hand-operated grease gun with slow pumping action and check to make sure relief valve is not plugged. **Do not remove the relief valve or replace with an additional grease nipple!** Lack of proper lubrication will shorten the life of the bearings.



A replacement part kit is available for the DUB-Swivel® clevis pins. Each kit contains (2) clevis pins, (2) clevis pin nuts, (2) lockwashers, and (2) capscrews. The kit part number is 00508-0XX. For other spare parts, contact your dealer for price and availability. Never use standard HEX Bolts as replacements for the DCD Clevis Pins.



Factory rebuild services are available for the DUB-Swivel®. With this service we will replace bearings, seals, and any other worn parts, as well as offer a conditional continuation on our warranty. Assembly of this product is complex and we strongly recommend use of this service. For re-build information call the factory toll free at **1-888-794-8357**.

