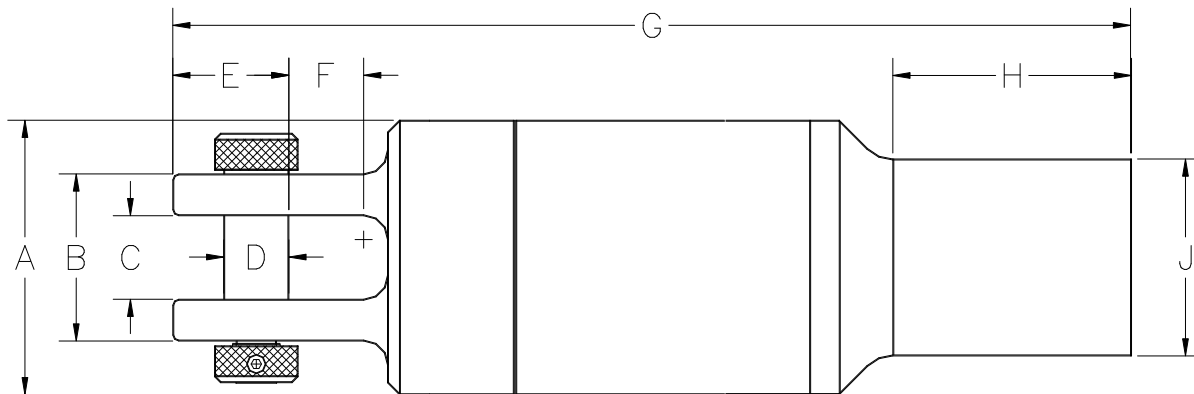


# OPERATING SPECIFICATIONS



## SERIES 00508 DUB-SWIVEL® STYLE 1

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



Part Number	Safe Working Limit	Ultimate Load	Box Thread	A	B	C	D	E	F	G	H	J	Net Weight
00508-115C	30,000 lb 133 kN	150,000 lb 667 kN	2-3/8 IF API	4-3/4" 121 mm	3-1/4" 83 mm	1-3/4" 44 mm	1-1/8" 29 mm	2-1/16" 52 mm	1-7/16" 36 mm	19-1/8" 486 mm	4-5/8" 117 mm	3-3/8" 86 mm	96 lb 44 kg
00508-120C	40,000 lb 178 kN	200,000 lb 890 kN	2-3/8 IF API	5-3/4" 146 mm	3-1/2" 89 mm	1-3/4" 44 mm	1-3/8" 35 mm	2-1/2" 63 mm	1-7/16" 36 mm	19-3/8" 492 mm	4-5/8" 117 mm	3-3/8" 86 mm	96 lb 44 kg
00508-120D	40,000 lb 178 kN	200,000 lb 890 kN	2-7/8 IF API	5-3/4" 146 mm	3-1/2" 89 mm	1-3/4" 44 mm	1-3/8" 35 mm	2-1/2" 63 mm	1-7/16" 36 mm	19-1/2" 495 mm	5-1/8" 130 mm	4-1/8" 105 mm	96 lb 44 kg
00508-130D	60,000 lb 267 kN	300,000 lb 1330 kN	2-7/8 IF API	6" 150 mm	3-1/2" 89 mm	1-3/4" 44 mm	1-3/8" 35 mm	2-1/2" 63 mm	1-7/16" 36 mm	19-1/2" 495 mm	5-1/8" 130 mm	4-1/8" 105 mm	96 lb 44 kg
00508-130E	60,000 lb 267 kN	300,000 lb 1330 kN	3-1/2 IF API	6" 150 mm	3-1/2" 89 mm	1-3/4" 44 mm	1-3/8" 35 mm	2-1/2" 63 mm	1-7/16" 36 mm	20" 508 mm	5-5/8" 143 mm	4-3/4" 121 mm	96 lb 44 kg
00508-140E	80,000 lb 356 kN	400,000 lb 1780 kN	3-1/2 IF API	6-1/2" 165 mm	4-5/8" 117 mm	2-1/8" 54 mm	1-3/4" 44 mm	3-5/16" 84 mm	1-7/8" 48 mm	24-7/8" 632 mm	5-5/8" 143 mm	4-3/4" 121 mm	180 lb 82 kg
00508-140F	80,000 lb 356 kN	400,000 lb 1780 kN	4-1/2 IF API	6-1/2" 165 mm	4-5/8" 117 mm	2-1/8" 54 mm	1-3/4" 44 mm	3-5/16" 84 mm	1-7/8" 48 mm	26" 660 mm	6-1/8" 156 mm	6-1/2" 165 mm	180 lb 82 kg
00508-160F	120,000 lb 534 kN	600,000 lb 2670 kN	4-1/2 IF API	7-1/2" 190 mm	5-1/2" 140 mm	2-3/4" 70 mm	2-1/8" 54 mm	3-5/8" 92 mm	2-5/8" 67 mm	30" 762 mm	6-1/8" 156 mm	6-1/2" 165 mm	250 lb 113 kg
00508-180F	160,000 lb 712 kN	800,000 lb 3560 kN	4-1/2 IF API	9" 230 mm	6" 150 mm	3-1/4" 83 mm	2-1/2" 63 mm	4-13/16" 122 mm	2-3/4" 70 mm	32-5/8" 829 mm	6-1/8" 156 mm	6-5/8" 168 mm	390 lb 180 kg

Dimensions and weights subject to change without notice.  
Tolerances for dimensions on cast parts (B, C, E, F, G) 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



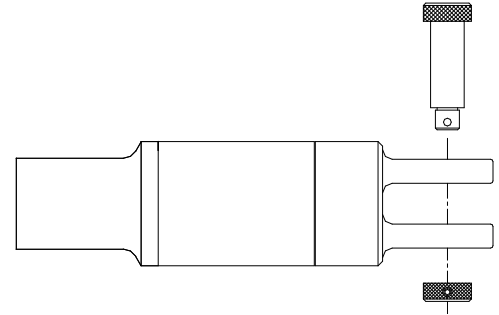
Design &  
Manufacturing Ltd.

SERIES 00508 DUB-SWIVEL® STYLE 1



## OPERATION

1. Thread the swivel onto the reamer and torque to the requirements of the API thread specification.
2. Remove the socket head cap screws and lock washers from the clevis pin nut.
3. Unscrew the clevis pin nut from the clevis pin and remove the clevis pin from the swivel.
4. Insert the items you want to attach into the clevis end. Re assemble the clevis pin and nut.



## 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.



**A swivel is not a universal joint!** It is designed to be used under tension and in a straight line. Any use of this product that allows the swivel to fall away from the centerline of rotation will severely affect the life of the swivel.



**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.



**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.



**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.

# 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 **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. **Ensure the relief valve is removed during greasing, and reinstalled before operation. Do not 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 replacement 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**.

