

STEERING TOOL HOUSING



Non Magnetic High Flow Sonde Housing

Operating Instructions

Type
Serial No.

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STEERING TOOL HOUSING

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Please read this booklet before using your sonde housing

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Introduction

The Brewis Non-Magnetic High Flow Sonde Housing has been specifically designed for the

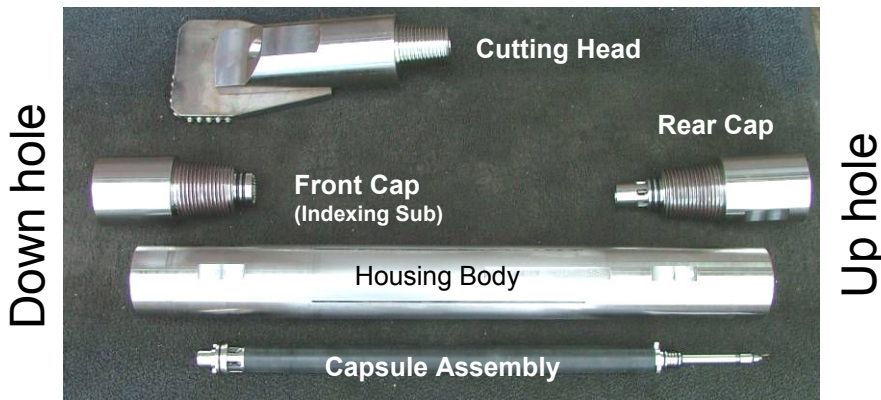
Digitrak® Eclipse® SST™.

It is manufactured using premium grade non-magnetic materials for optimum performance.

There are currently three diameters of housing available
3 5/8" (92mm), 4 3/4" (120mm), 6 1/2" (165mm)

The assembly consists of 5 main components –

- 1) The cutting head and plates. (Optional)
- 2) The front cap or indexing sub.
- 3) The housing body.
- 4) The rear cap.
- 5) The capsule assembly.



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Fitting the transmitter

Down hole



Up hole



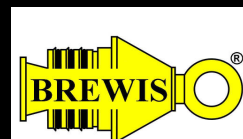
Cutaway view of dog (3)



- 1) Remove the capsule rear cap & gland nut.
- 2) Slide the transmitter into the capsule.
- 3) Turn the transmitter until the dog is located.
- 4) Thread the cable through the spring and cap.
- 5) Screw the cap carefully into the capsule body. Make sure both ends are screwed on fully.
- 6) Slide the O rings, brass spacers and gland nut on to the wire.
- 7) Screw the gland nut back onto the rear cap.

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Preparing the housing assembly

1) The housing body

Identify the front and rear of the housing body.

The body is marked “Front” on the down hole end and “Rear” on the up hole end. If this is no longer readable try to slide the capsule assembly into the housing. The capsule assembly will only fit into the rear.

Check the threads and the plastic liner for damage and apply plenty of rod release compound to the joints.



2) Front Cap (Indexing Sub)

Check the internal and external O rings for damage and lubricate with silicone grease or similar.

Check the indexing slots are clean and undamaged.

Screw the cap into the front of the housing body by hand.

The box connection in the front cap is now ready to accept a

Non Mag Boring Head or

Non Mag Jet Tube or

Non Mag Drill Rod leading to either a mud motor or a bent sub & tricone cutter.

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3) Fit the capsule assembly

Slide the capsule assembly into the rear of the housing. You will feel the locating dogs engage in the slots of the indexing sub. Rotate the capsule assembly until the twelve o'clock position on the transmitter aligns with the steering plate (or bent sub etc.) and push the capsule assembly firmly into the locating slots.



Failure to engage the capsule assembly fully into the slots may result in damage to the transmitter.



Cutaway View

Dog must locate fully in to indexing slots.

4) Fit the rear cap

Check the O rings for damage. Replace or lubricate if needed. Apply rod release compound to the pin and screw carefully into the housing body by hand. If possible use a test meter to ensure the transmitter is earthed to the housing.

The assembly can now be attached to the drill string and the joints tightened.



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Care & Maintenance



CAUTION – Non Magnetic Stainless Steel housings have a lower tensile strength than alloy steel housings. For long life please treat your housing carefully!



CAUTION – Welding your housing may have an adverse effect on it's magnetic properties!

Please clean, check and lubricate the O ring seals whenever your housing is apart.

Please quote the housing serial number when ordering spares.


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 Since we invented the expanding duct puller in 1984 we've made every size imaginable from 25mm to 900mm.
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 Other sizes, including IPS, on request.

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 This patented puller is bentonite proof to very high pressures. In tests it is easily capable of withstanding the burst pressure of the pipe. It seals on both SDR 11 and 17.
 This is the best directional drilling puller you can get.
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 Our range of heavy duty swivels starts at 8 tons (16,000lb) and goes up to 540 tons. Supplied with clevis, box or spade connections. A universal joint kit is available to suit each size. These swivels are the first choice of rig operators right across Europe and from Hong Kong to Siberia.




SONDE HOUSINGS & DRILL HEADS –
 We manufacture several sizes and types of high flow sonde housings for use with mud motors. The standard housing has an annular flow design with the sonde protected inside a capsule. Both battery and wireline sondes can be used.
 For drilling, the indexing sub is replaced by a fixed position angled drill head with 6 hole blade pattern.




CUSTOM DESIGN & MANUFACTURE –
 Our advanced design & manufacturing facilities enable us to produce specials quickly and economically.
 For example - bursting blades, rods and accessories, water drills, inner duct pullers, nose cones, crossovers, sub savers, pipe rollers, drill rods etc.
 Please contact us with your requirements.



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