







10K PSI MAX FLOW HOT STAB AND RECEPTACLE DATA SHEET

DESIGN BASICS

Coupling Type Max Flow Hot Stab and Receptacle **Coupling Size** 1/4", 1/2", 1", 2" and 4"

 Pressure Rating
 690 Bar (10,000 psi)
 Test Pressure
 1034 Bar (15,000 psi)

 Max Operating Depth
 3050 m (10,000 ft)
 Operating Temperature
 -18°C to +121°C

Flow Path Straight-through full bore - zero head loss

Design Code API 6A 17D PSL3G PR2 for Other End Connectors (OEC) – PSL3G available on request

Material Classification API material class FF, HH available in accordance with NACE MR0175

Certification Level EN 10204 3.1

Operational Stab to connect, pull to disconnect

Breakaway Control J-Type latch. Pressure balanced stab design sees zero separation forces from receptacle up to full

working pressure

Load to Disconnect ≈ 50kg

Mounting Horizontal or vertical

Installation Via ROV handle (interface in-line with ISO 13628-8)

Alignment Method J-Type latch

Design Life 25 years (metallic components)

Additional Requirements To be specified

PERFORMANCE

Max. Bending Moment TBC Maximum Torque TBC

BASIC 1" WEIGHT AND DIMENSIONS

Stab Dimensions435mm x 130mm xReceptacle Dimensions300mm x 230mm x 220mm

100mm

Stab Weight in Air 9kg Receptacle Weight in Air 18kg

CONNECTION DETAILS

Connection Methods Subsea - ROV - Fishtail, T-Bar or Grab Handle

Topside - Manual

Male Stab/ Female Grayloc B20 Hub, Destec, API Flange, Threaded (JIC or NPT), H/P Autoclave, Weld Preparation (Other

Receptacle End Connections end connections available on request)

MATERIALS

Materials Super Duplex 32760, Inconel and S316 Stainless Steels

Elastomeric Seals HNBR, Viton (FKM) or Perfluoroelastomer (FFKM)

TESTING REQUIREMENTS

Pressure Test API 6A PSL3 (3G Available) Impact Testing ASTM A370

Qualification Test None Hardness Testing ASTME10 / ASTME18

Ultrasonic API 6A PSL3 Magnetic Particle API 6A PSL 3

Dye Penetrant API 6A PSL3 Radiography As Required (weld)

Corrosion Testing ASTM G48 Method A

WITNESS REQUIREMENTS

Customer Witness Available Third Party Witness Available at additional cost

PAINTING REQUIREMENTS

Painting Specification Norsok M501 System 7 Colour Orange RAL2004

NOTES / ADDITIONAL REQUIREMENTS

These figures are based on known and estimated data. Secc reserves the right to change specifications without notice.



Tel: +44 (0)1606 338745



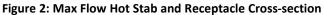
Inlet / outlet connection

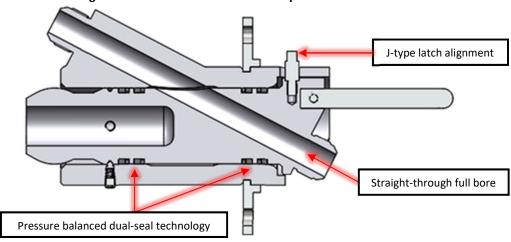
Weld API flange Thread Clamp

Handle type

Fishtail D-Type T-Bar

Figure 1: Max Flow Hot Stab Possible Configurations









Flow Data for Secc Max Flow vs Conventional Hot Stabs

Secc's Max Flow is a patented design that conforms to API 17H. The straight-through, full bore provides maximum flow at minimal pressure.

The charts below show the relationship between Flow Rate and Pressure Drop for conventional hot stabs of various bore sizes and compares these to Secc's Max Flow. A 1" Max Flow performs the same as a 2" conventional hot stab and a 2" Max Flow the same as a 4" conventional hot stab.

Utilising the Max Flow, engineers are able to consider reducing the bore size or pressure rating of the subsea infrastructure. Additionally pumps, valves and other pressure related equipment can be appropriately sized. All of this can lead to significant cost and weight savings on subsea projects.

