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# Flexible Engineered Solutions Subsea

## Hot Stabs & Receptacles

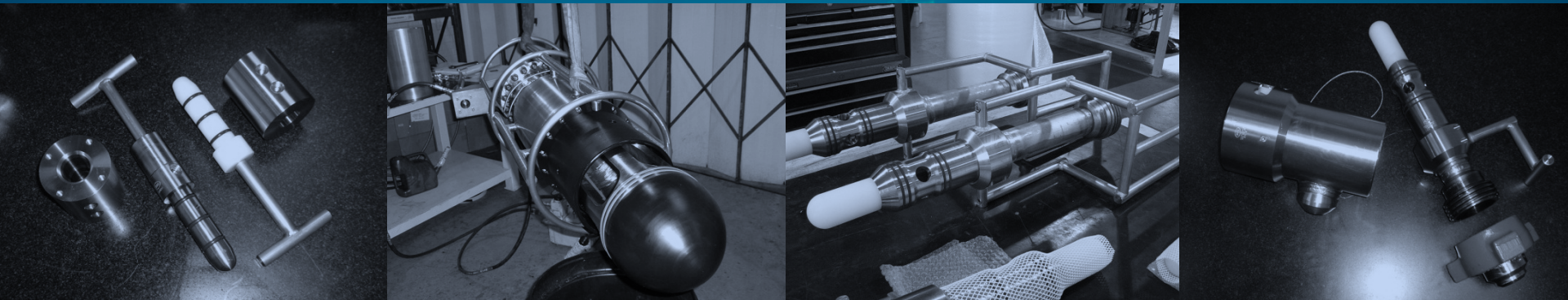
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Flexible Engineered Solutions

# FES Subsea – Hot Stabs & Receptacles

## Introduction



FES Subsea have built up a reputation for satisfying clients with a **range of standard & bespoke ROV operable Hot Stab Connectors** for use in fluid transfer systems by means of **high quality** and **cost effective design, manufacture** and **short lead times**.

# FES Subsea – Hot Stabs & Receptacles

## Product Range



FES Subsea Hot Stabs  
& Receptacles



API 17D/  
ISO13628-8 (API 17H)  
Hot Stabs  
& Receptacles



Hydraulically  
Operated Hot Stabs  
and Receptacles

# FES Subsea – Hot Stabs & Receptacles

## FES Subsea Hot Stabs & Receptacle



**Diameter:** 1" to 8"

**Design Pressures:** 0 to 15,000PSI +

Design standards include **API17D, API 6A, API RP2A, ASME B31.3, ISO13628-4** and **PD5500**. (Others available on request.)

Qualified and 3rd party certified to **API 6A / ISO 10423 PR2 Annex F & API 17D / ISO 13628-4 Annex L**.

Suitable for **subsea pigging, chemical or gas injections** and **flood and vent operations**.

**Single operation** engagement/disengagement.

**Single or Dual Entry** Receptacles

### **Materials:**

316L Stainless Steel, Duplex F51, Super Duplex F55, Inconel 625 etc.

### **Connections:**

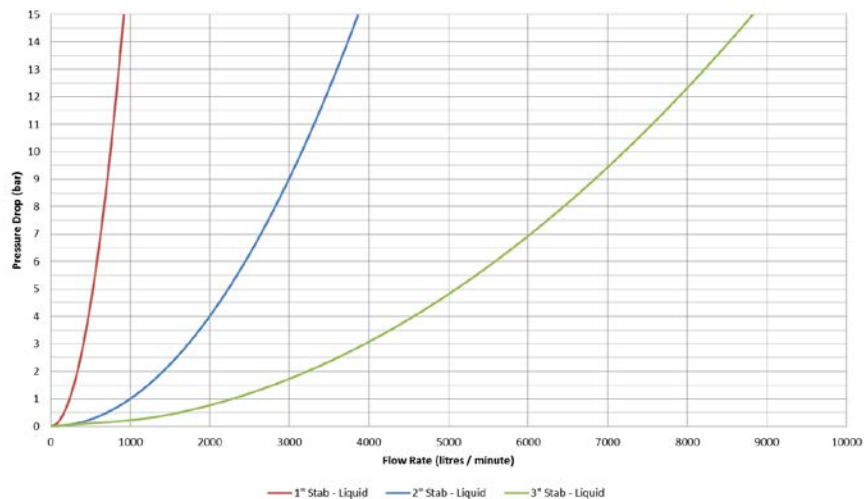
Autoclave, BSP, Female Hammer Lug Union, Flanged, NPT, Weld Prep etc.



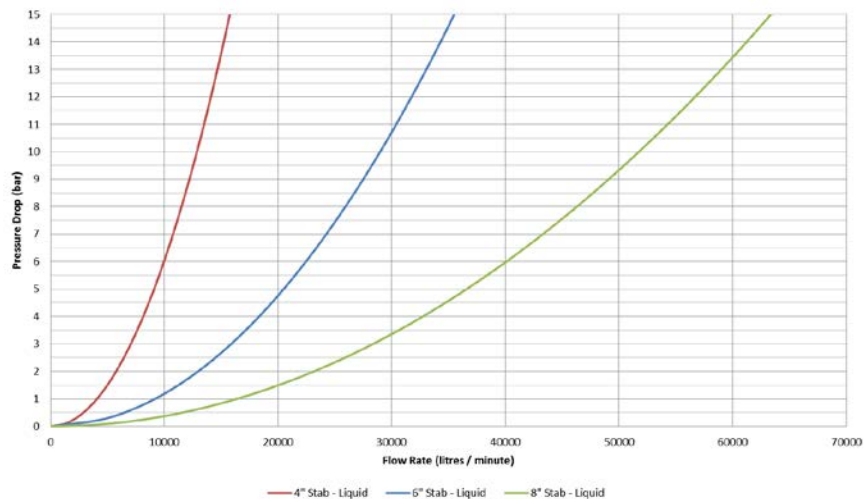
# FES Subsea – Hot Stabs & Receptacles

## Pressure Drops

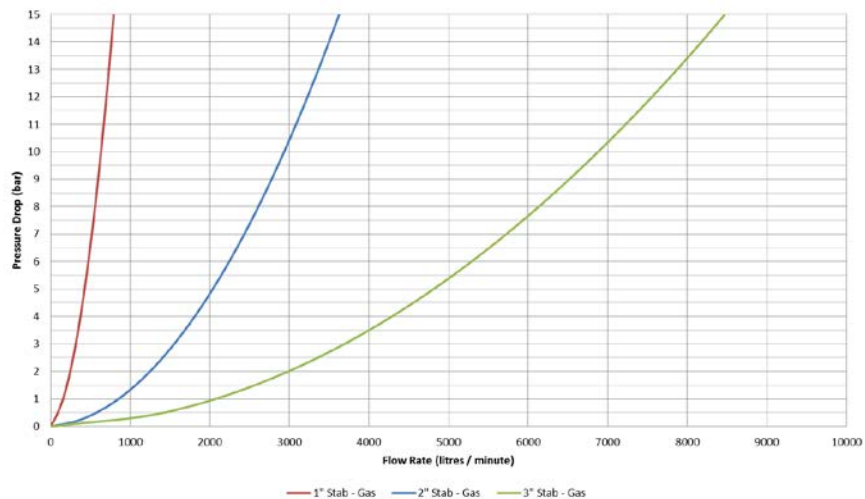
Hot Stab / Receptacle  
Graph of Flow Rate Against Pressure Drop (Liquid)



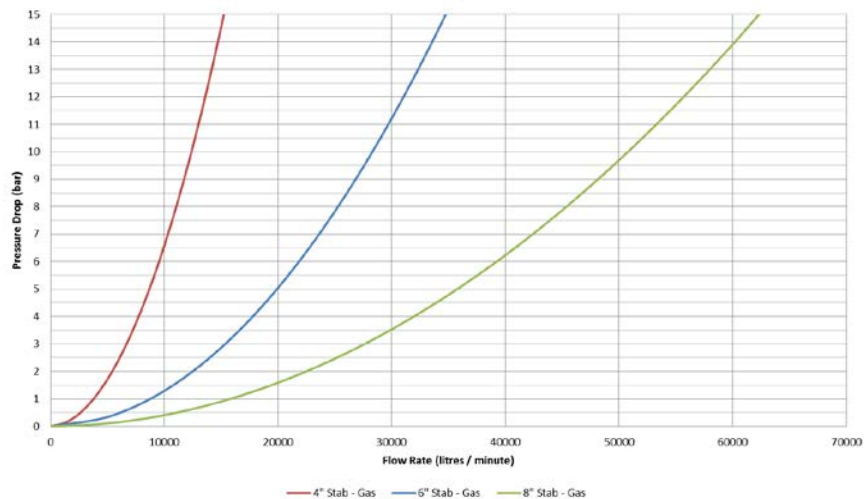
Hot Stab / Receptacle  
Graph of Flow Rate Against Pressure Drop (Liquid)



Hot Stab / Receptacle  
Graph of Flow Rate Against Pressure Drop (Gas)



Hot Stab / Receptacle  
Graph of Flow Rate Against Pressure Drop (Gas)



# FES Subsea – Hot Stabs & Receptacles

## API 17D/ISO 13628-8 (API 17H) Hot Stabs & Receptacles



**API 17D** - Single, Dual and Quad Port Designs

**ISO 13628-8 (API 17H)** - Single and Dual Port Designs

FES Subsea also provide items in accordance with the **PETROBRAS Dual Port Hot Stab** profile

**Working pressures** up to 15,000 PSI

**Bespoke versions** with a **mechanical locks** available to prevent unwanted disengagement

**Flexible Handle** connection to accommodate subsea surge and ROV handling.

**Low maintenance** one piece construction

**Single operation** engagement/disengagement



# FES Subsea – Hot Stabs & Receptacles

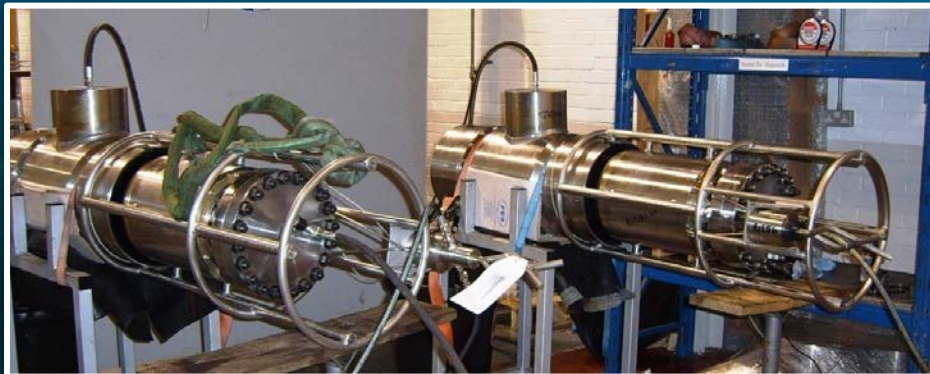
## Hydraulically Operated Hot Stabs and Receptacles

Available for stabs sized **4" and above**

**Hydraulically operated** via API 17D Hot Stub

Provides **all insertion and retraction forces** via hydraulic force

**Eliminates** need for ROV/Diver to provide the insertion & retraction forces



# FES Subsea – Hot Stabs & Receptacles

## Stock Hot Stabs and Receptacles

To assist clients with **rapid response and accelerated delivery times**, FES hold a level of part-machined modular hot stabs, blind stabs and receptacles.

Stock items include:

**API 17D Dual Port** Hot Stabs and Receptacles 6K & 10K PSI

**API 17D Single Port** Hot Stabs and Receptacles 6K & 10K PSI

**ISO 13628-8 Type “A” Dual Port** Hot Stabs and Receptacles 6K & 10K PSI

**ISO 13628-8 Type “B” Single Port** Hot Stabs and Receptacles 6K & 10K PSI



**1”** FES Hot Stabs And Receptacles 6K & 10K PSI

**2”** FES Hot Stabs And Receptacles 6K & 10K PSI

**3”** FES Hot Stabs And Receptacles 6K PSI

**4”** FES Hot Stabs And Receptacles 5K PSI

# FES Subsea – Hot Stabs & Receptacles

## Quality Assurance and Testing

Working in accordance with the requirements of **ISO 9001 : 2015** quality standard FES Subsea ensure that all Hot Stabs & Receptacles are supplied with the **highest level of quality, service and after sales support.**



**In-house assembly and testing facilities** ensure all test procedures and inspection & testing plans are strictly adhered to.

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# FES Subsea – Hot Stabs & Receptacles

## Key Features

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- ROV subsea and/or diver operable
- One piece construction
- Multipath connector system
- Mechanical locking
- Single operation engagement/disengagement;
- Design pressure ranges up to 15,000 psi
- A choice of materials including those with low friction properties
- Double seal system and choice of seal types
- Interchangeable sizes and model ranges
- Insertion and retraction force of 15 – 20kg with no offset
- Hydrostatic and hyperbaric testing program.

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# Flexible Engineered Solutions Subsea

## Contact Us

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