

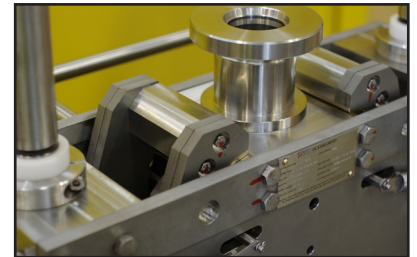
Hot Make Hot Break (HMHB)

A fully-valved, pressure-balanced emergency breakaway connector, the Hot Make Hot Break is designed to enable efficient pumping/transfer of fluids while providing a reliable safety system in the event of a vessel losing DP (dynamic positioning).

The connector can be positioned subsea or topside and will break away mechanically if the vessel it is connected to loses DP, even under full working pressure and with virtually no fluid loss or line contamination, therefore delivering a high level of protection for crew, equipment and the environment.

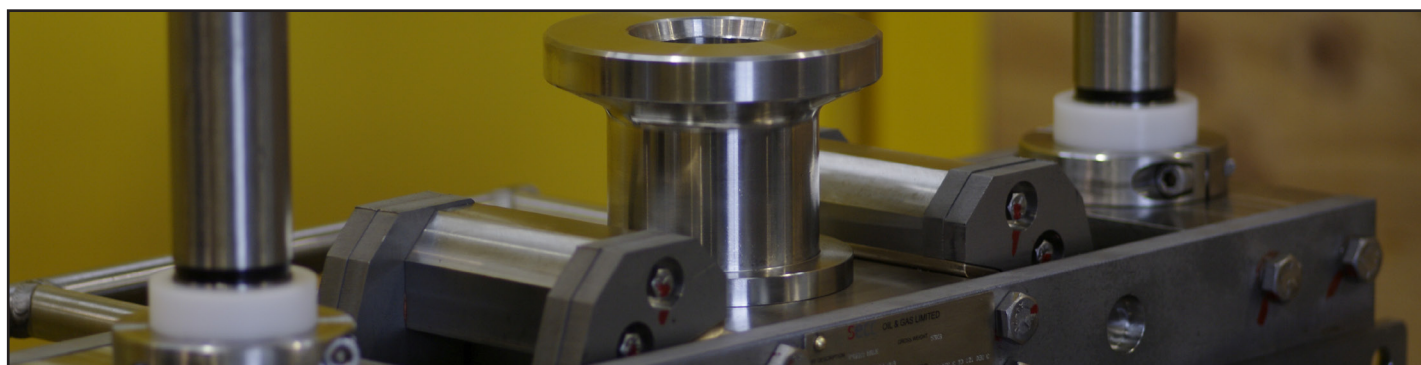
The connector is easily operated by ROV, diver, actuator or winch, allowing operators to dispense with guillotines and other uncontrolled subsea and topside emergency disconnection systems.

The ease with which the HMHB can be connected and disconnected also significantly reduces operational downtime and deferred oil revenues.



Specification

Bore Size	1", 2" and 4"
Design Pressure	Up to 10,000 psi [690bar]
Water Depth	Up to 10,000 ft. [3048m]
Operating Temperature	-18°C to 121°C
Flow Path	90°, 45° or 30°
Male & Female End Fittings	API, Norsok or ASME Flanges Destec or Grayloc Hubs Fig 1502 Hammer Unions H.P. Autoclave Threaded (JIC or NPT) Weld Preparation
Elastomeric Seals	HNBR, Viton (FKM) or Perfluoroelastomer (FFKM)
Materials	Super Duplex, Inconel and S316 Stainless Steel
Connection Methods	ROV - Fishtail, T-Bar, or Grab Handle Manual Topside Guide Wire Pull-In Deployable Hydraulic Pull-In Tools
Guidance Methods	Male Probes & Female Funnels Bull Horns & Bobbins Female Probes & Male Funnels
Disconnection Methods	Hose Tension ROV Pull-Out Winch Wire Hydraulic Ejection
Breakaway Control	Mechanical Locking Mechanism or Tension Pin - if required
Breakaway Load	Between ≈ 200kg at 0psi and 2 tonnes at 10,000psi with no breakaway control



Applications

- All Pumping and Fluid Transfer Project Associated with Subsea and Topside Applications
- Well Stimulation, Work Over & Intervention
- Well Testing
- Pressure Testing
- Coil Tubing
- Kill Lines
- Cementing
- Chemical Injection

Features

- Automatic Disconnect Under Full Working Pressure
- ROV or Diver Operable
- Fully Pressure Balanced Design
- Designed & Tested in line with API 6A and API 17D
- Zero Fluid Loss During Connection or Disconnection
- Full Bore, High Flow Path
- High Angle Disconnect Option (Gimbal)
- Fully Piggable Option (<90° Flow Path)

Other Ancillaries

Flushing Stump	A flushing stump can be supplied to facilitate topside flushing of the male Hot Make Hot Break connector
Subsea Seal Change Out Tool	The Hot Make Hot Break connector can be supplied with a subsea seal change out cartridge. Use of the Secc subsea seal change out tool facilitates replacement of the seals subsea.
Male Dummy	Male Dummies are available for the Hot Make Hot Break connector. Preventing fluid ingress whilst the connector is not in use/connected, thus preventing possible corrosion, or damage to the female components
Protection Cap	A protection cap can be supplied with the connector to prevent ingress of debris that may prevent the connection from being made. It should be noted that the construction of the connector means that the female receptacle is always concealed by the inner piston when not in operation
Transport Frame	Upon request, transportation frames are available, which add simplicity to transporting and unpacking the connector and prevents possible damage
Blind / Test Flanges	Blind / test flanges can be provided for the testing requirements specified for each individual job. These are designed in house to comply with the testing medium to suit our customer needs.
Mounting	The design of the Hot Make Hot Break connector allows a wide variety of mounting interfaces to be used. Secc can supply standard mounting positions or can work with clients on customised solutions.
Seals	HNBR, Viton (FKM) or Perfluoroelastomer (FFKM)

For further information about the connector, its operations and installation, please contact us and we will be happy to help.