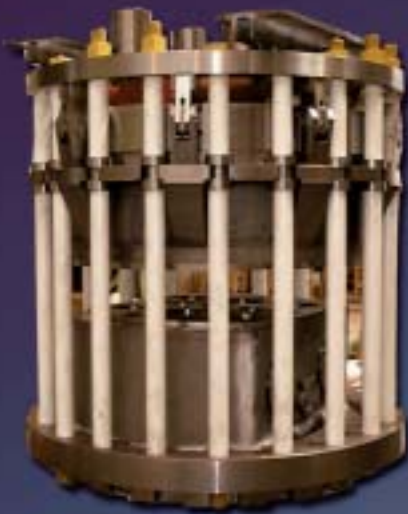


IN-LINE
PIGGABLE

MATE™

MULTI-PORTED FLUID CONNECTOR



The MATE™, multiported fluid connector enables the simultaneous connection/disconnection of numerous piping runs. It is primarily intended for connection of “bundled” pipelines and risers. However, it is also suitable for the connection of equipment modules/ System-Modules when configured with isolation valves.

The MATE™ connector is cylindrical. It is sized to suit the number of bores required. Presently, the connector is sized to accommodate six 8-inch ports and four 4-inch ports. All ports are full diameter through bores, matching the inside diameter of the mating pipes or risers, which provides the facility to pass pigs through the connector, if required. Sealing of the individual bores, between the connector halves, is achieved by the use of industry-standard metal ring gaskets, which are mounted in the upper, retrievable, connector half.

The connector halves are manufactured from solid forgings. They can be supplied machined to suit API or ASME flanges, or any proprietary compact flange system.

The connector is suitable for horizontal or vertical application.

After bringing the connector halves together by means of a guidance system, they are clamped together by a circular arrangement of long, external tie-bars, which are tensioned by a toggle mechanism. Tensioning of the tie-bars is accurately set prior to deployment, thus eliminating the need to undertake bolt-tensioning operations on the seabed. This arrangement ensures that a reliable, even clamping force is achieved, which results in a non-easing joint for the life of the connector assembly.

Operation of the toggle tensioning mechanism is achieved by the actuation of hydraulic cylinders located in the upper connector half. These cylinders are powered from a power pack located on a ROV, via a hydraulic stab.

