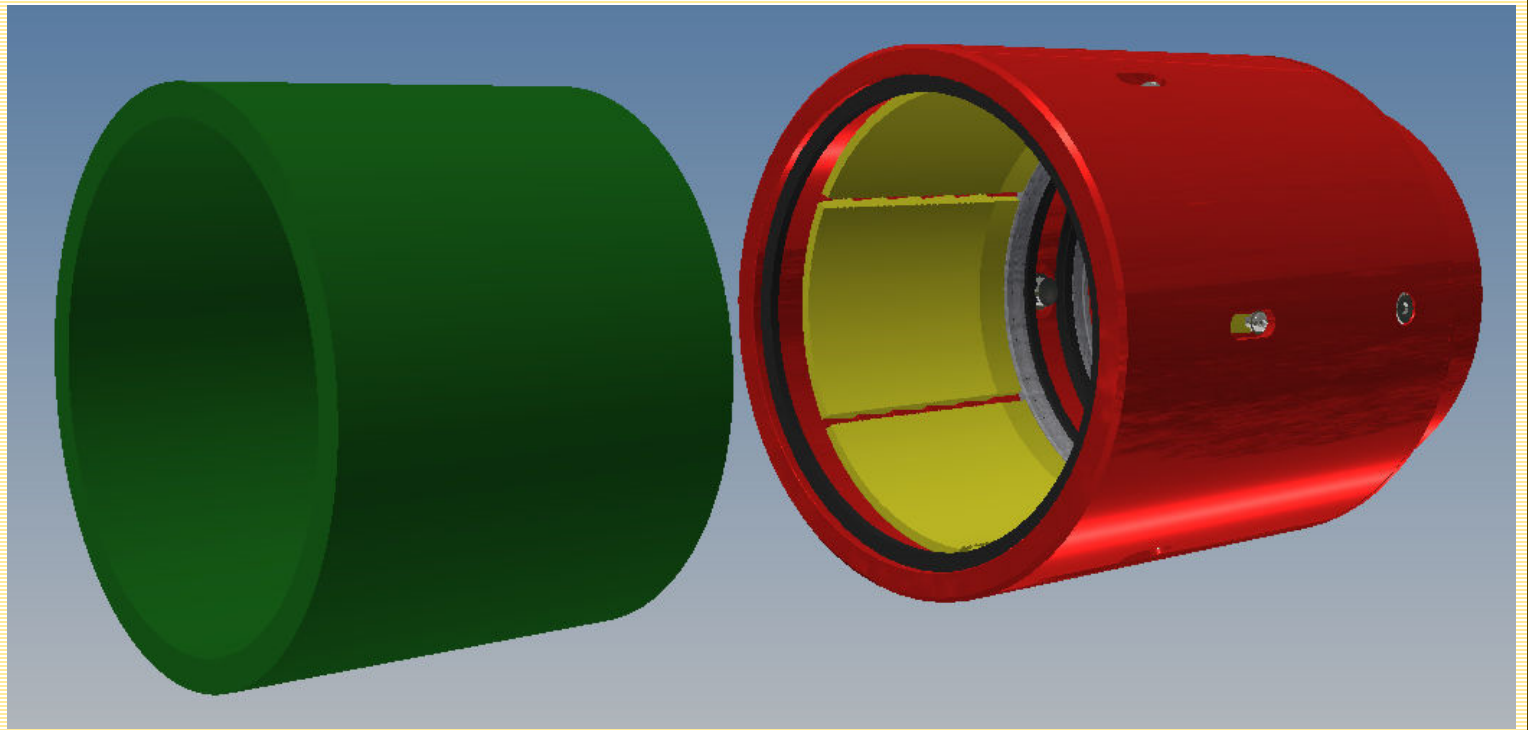


BETA SUBSEA SYSTEMS

DIV. BAUGH CONSULTING ENGINEERS, INC.

BETA-LOK PIPELINE CONNECTOR



**THE BETA-LOK PIPELINE CONNECTORS PROVIDE RAPID
MAKE - UP OF PIPELINE JOINTS FOR OFFSHORE PIPELAY OPERATIONS
THEY FEATURE FULLY PRELOADED RIGID CONNECTIONS WITH METAL
TO METAL SEALING - CONNECTING TO PLAIN END PIPE**

**FULL PIPE TENSILE AND PRESSURE RATING
RIGID, FULLY PRELOADED CONNECTION
CAN BE SET AND PRESSURE TESTED IN 2 MINUTES
WILL SET AND SEAL ON COATINGS**

**ALLOWS FULLY COATED JOINT PREPARATION - NO COATING DAMAGE EXCEPT AT
SLIP TEETH - AREA ENVIRONMENTALLY PROTECTED**

**ALL METAL TO METAL PRIMARY SEALING
SELF-ENERGIZED METAL AND RESILIENT SEALING
SEALS CAN BE RE-ENERGIZED**

Beta Subsea Systems offers a combination of patent licensing, engineering, sales, manufacturing capabilities, inventory, service and products to assist you grow your business.

Contact Information: Benton F. Baugh, Ph.D., P.E., 713-419-8683, bbaugh@baughengrs.com

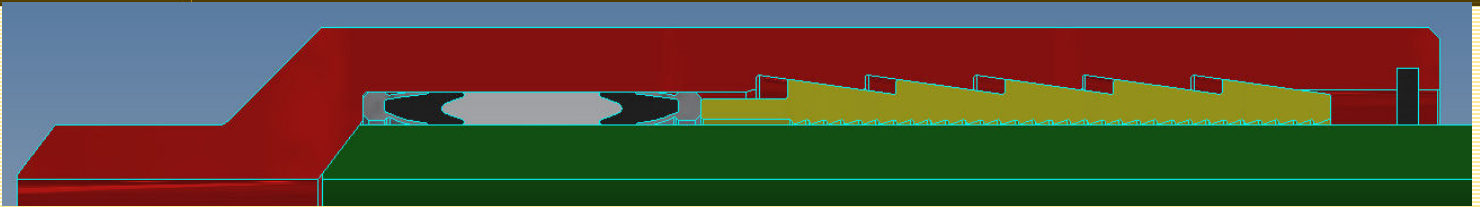
www.betasubsea.com

PATENT PENDING

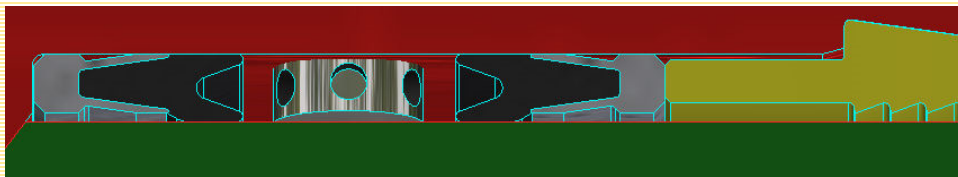
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BETA-LOK PIPELINE CONNECTOR



ALL LEAK PATHS HAVE ZERO GAP, METAL TO METAL, PRESSURE ENERGIZED SEALS
METAL-TO-METAL SEALS ARE DEFORMED INTO CONTACT WITH THE PIPE
RESILIENT SETTING SEALS BECOME BACKUP SEALS
ACTUATING MEDIA BECOMES A BACKUP SEAL



**ON INITIAL INSERTION,
PIPELINE END IS SEALED
WITH ZERO GAP PRESSURE
ENERGIZED RESILIENT CUP
SEALS**



**SEALS ARE ENERGIZED AND
SLIPS ARE SET WITH SEAL-
WELD 5050 VALVE SEALANT,
WHICH HAS BEEN TESTED
TO SEAL ON A 0.030" GAP**



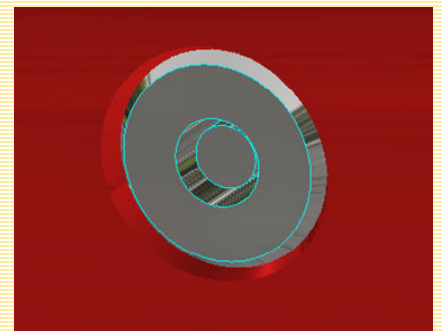
**SEALANT / ENERGIZER
INJECTION PORT**

ALL METAL SEALING



**METAL BELLOWS
PRESSURE GAUGE
OPTION**

ALL METAL SEALING



**EXTERNAL PRESSURE
SENSOR, FULLY
PRESSURED WHEN
CENTER IS FLUSH TO
OUTSIDE**

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