

REMOTE OPERATED VEHICLE INTERFACE WITH OVERTORQUE PROTECTION

Abstract of the Disclosure:

A remote operated vehicle (ROV) interface has a retrievable portion and a permanent portion. The permanent portion includes a housing that has a cavity that secures to a drive stem of the subsea well device. The housing has a pod cavity on an opposite end that receives a pod body, which is part of the retrievable portion. The pod body is secured by spring-biased retainer within the pod cavity. The pod body has a cylindrical receptacle that receives a drive pin, which forms another part of the retrievable portion. The drive pin and the cylindrical receptacle are engaged for rotation by a shear element. The pod body has an ROV retrieval profile that is accessible by an ROV. In the event the shear element shears due to excessive torque, an ROV retrieval tool engages the pod body and retrieves the pod body along with the drive pin.

Figure 1