

HYDRAULIC COUPLER WITH EXCELLENT FLOW PROPERTIES



SubseaDesign's hydraulic coupler can be pressure tested to full system working pressure against the retracted coupler without the need for an additional test cap. Due to the compact design and self sealing abilities of both sides of the coupler, ingress from sea water is confined to a minimum.

The couplers are DNVGL design approved and qualified to 3000 m (10.000ft) water depth.

The connectors can be applied on subsea wellhead connectors, riser connectors, emergency disconnect packages, quick release stab plates and emergency disconnect points.

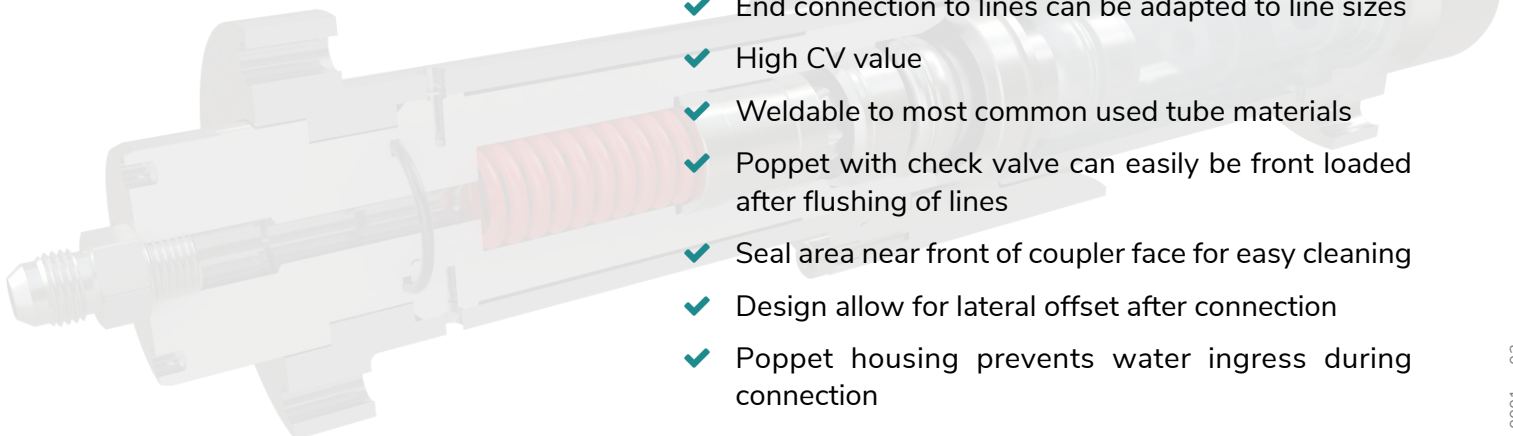
These state of art couplers tolerate high angle interconnection and allows for both front and rear loading into hubs.

TYPICAL APPLICATIONS

- ✓ Subsea Trees
- ✓ Tubing Hanger Penetrators
- ✓ Production Control Systems
- ✓ Drilling Control Systems
- ✓ Chemical Injection System
- ✓ Umbilicals

CHARACTERISTICS

- ✓ Metal to metal sealing cone situated in separate seal carrier plates between 2 hubs
- ✓ Self sealing coupler halves
- ✓ Allows for 3 deg misalignment angle during connection/disconnection
- ✓ Front or rear end loaded into the hubs
- ✓ End connection to lines can be adapted to line sizes
- ✓ High CV value
- ✓ Weldable to most common used tube materials
- ✓ Poppet with check valve can easily be front loaded after flushing of lines
- ✓ Seal area near front of coupler face for easy cleaning
- ✓ Design allow for lateral offset after connection
- ✓ Poppet housing prevents water ingress during connection

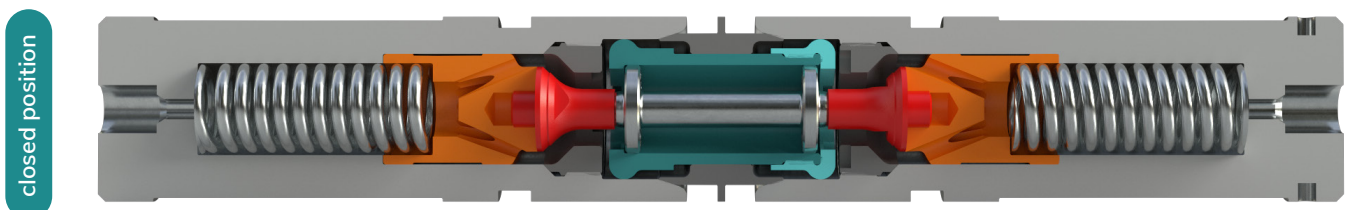
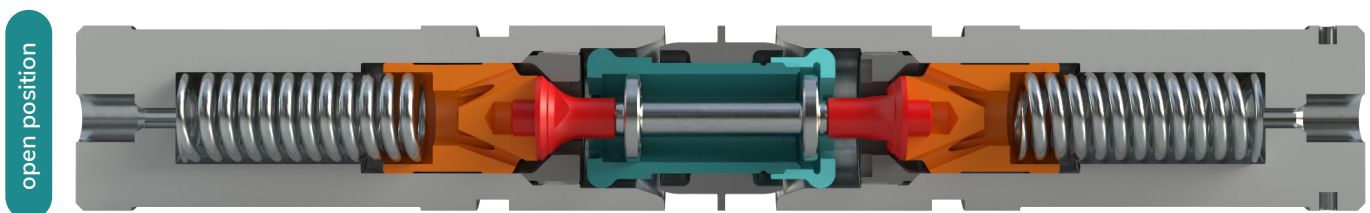


OPERATING CONDITION

Re-use of seals	> 10 makes and breaks
Temperature range	29 deg C to 141 deg C
Material class	ISO Class FF
Water depth	3000 m
Design life	30 years
Service life	30 years

TECHNICAL DATA

Pressure	Design	760 bar (11 000 psi)
	Test	1140 bar (16 500 psi)
Material	Coupler body	Nitronic 50
	Poppet opener	Inconel 718
	Poppet housing, spring piston, locking ring, flying poppet	25% duplex
	Crown Body Seal	Titanium Gr. 5 / Ag coated Inconel 718 / Ag coated
	Spring	Elgiloy / MP 35 N
Mate/force	Typical 29 kN	Depending on tolerance through hubs
	Flow properties (by simulations)	
Flow properties (by simulations)	CV value (US)	3.1
	KV	2.7
Design Standard		ISO 13629 / API 6a



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