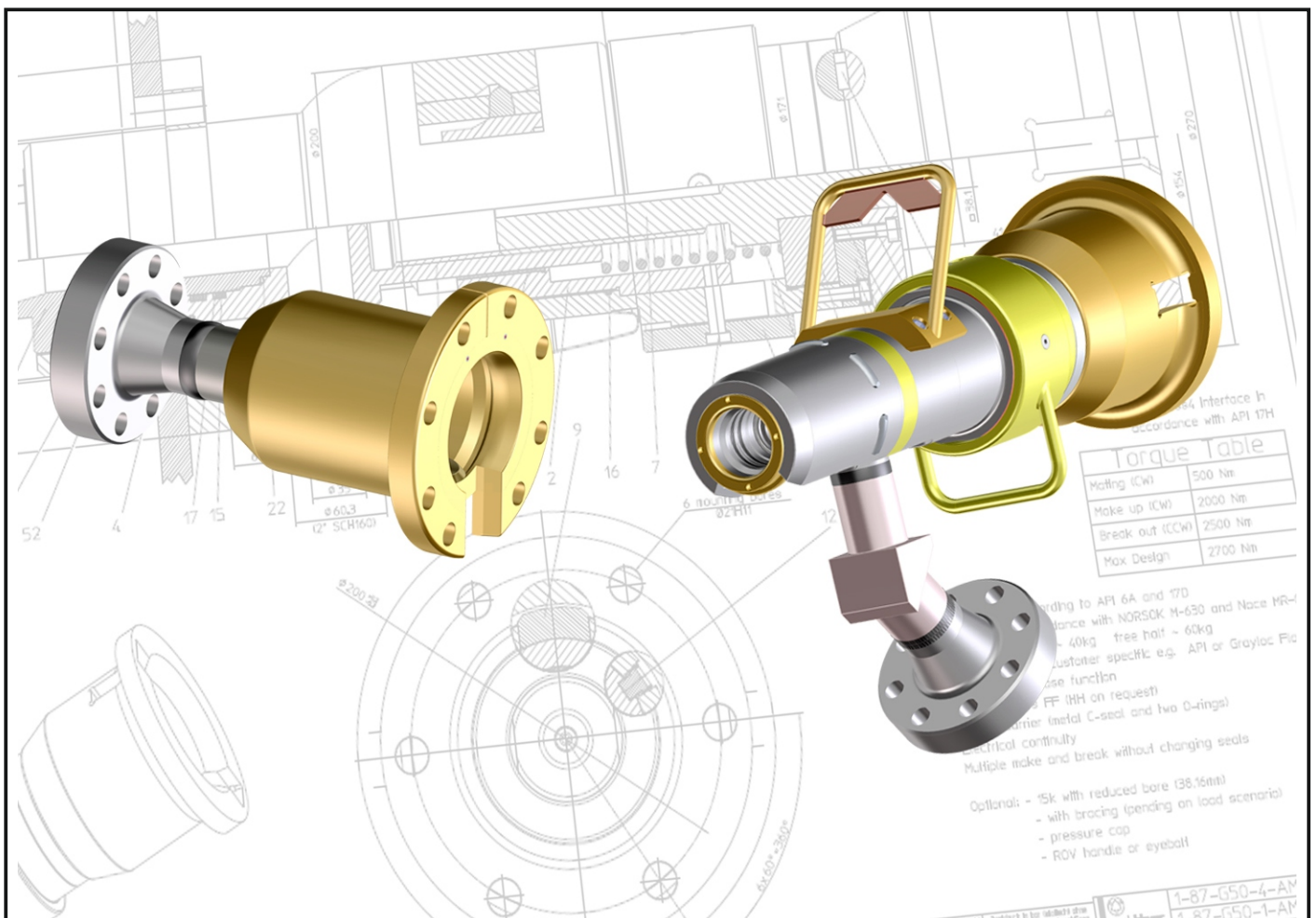


Large bore 2" ROV connector

10.000 / 15.000 psi

Type 87-G50



Introduction:

The 87-G50 series is designed for gas lift, chemical injection for intervention and permanent subsea service.

It features a superior two-step locking mechanism, qualified and field proven since 1996 in offshore applications world wide.

Safety, durability and the capability of multiple make and break cycles without changing seals are the main design features.

Installation & Operation:

The subsea connector fixed half is mounted to the structure. The ROV operated free half is equipped with a locking mechanism which is operated by an API class 4 torque tool. Its connection principle is safe and simple as the mating and locking function are separated in two steps:

1. Easy and large play for the mating operation of the ROV when stabbing into the guide funnel of the bulkhead connector.
2. While the ROV applies torque clockwise, the connector will lock first and then connect the lines.

Your Advantage:

- Multiple make and brake cycles without changing seals
- Cost control by reliable technology
- Cost reduction by fast and efficient operation
- Perfect fit: All connections according to your requirements

Additional equipment:

- Protective equipment
- Parking station for ROV operated free half
- Short term and long term pressure containing blind connectors
- Flooding caps
- Tool kit (for seal replacement)
- Seal kit

Features:

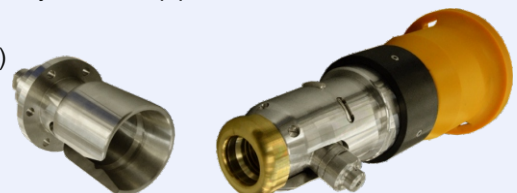
- 30 years design life
- Qualified and proven encapsulated locking design up to 5.000 m water depth, preventing calcite built up on locking mechanism.
- Working pressure 10,000 psi, or 15,000 psi
- Flush funnel mount, no keyhole/cutout required in Panel. No large coupler components sticking out of structure during submerging
- No exposes threads and therefore no risk that the locking mechanism getting damaged
- ROV operated (torque tool API 17H class 4 torque tool)
- NACE MR-0175 compliant for sour gas service
- Conform with API 6A /17D PR11 requirements
- API 17D / 6A (PSL 3G) qualified
- Calcium carbonating and marine growth protective coating, by colored coating
- All seals located on ROV free half
- Metal primary seal with double resilient backup seal (Norsok M710 RGD approved)
- End connection flange or weld stub to customer requirement
- Free mounting orientation

Options:

- Bracing / reinforcement bracket on ROV side for high loads
- Secondary release function
- Material class API-HH for wetted surfaces
- Cathodic protection
- ROV Bucket in metal
- Handles and lifting points
- ID \varnothing 43 can be increased to 2" ID (for 10 K applications)

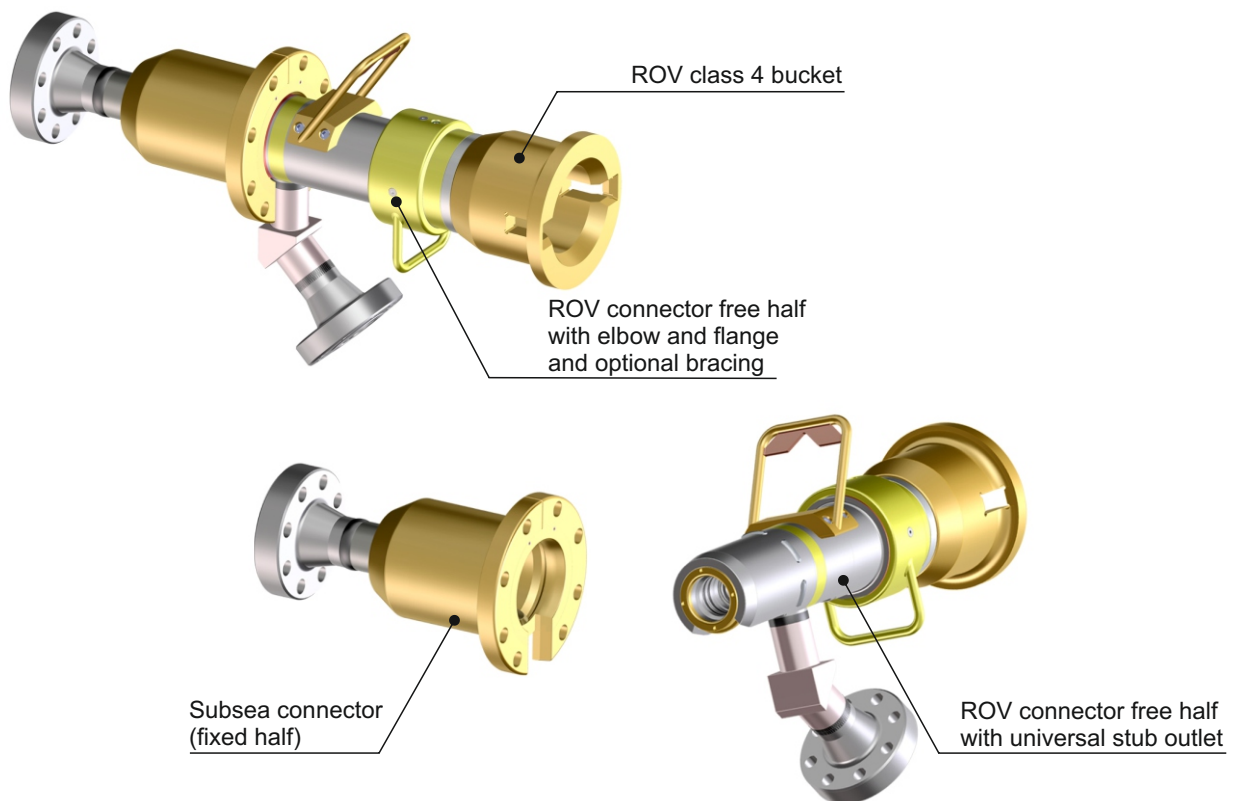
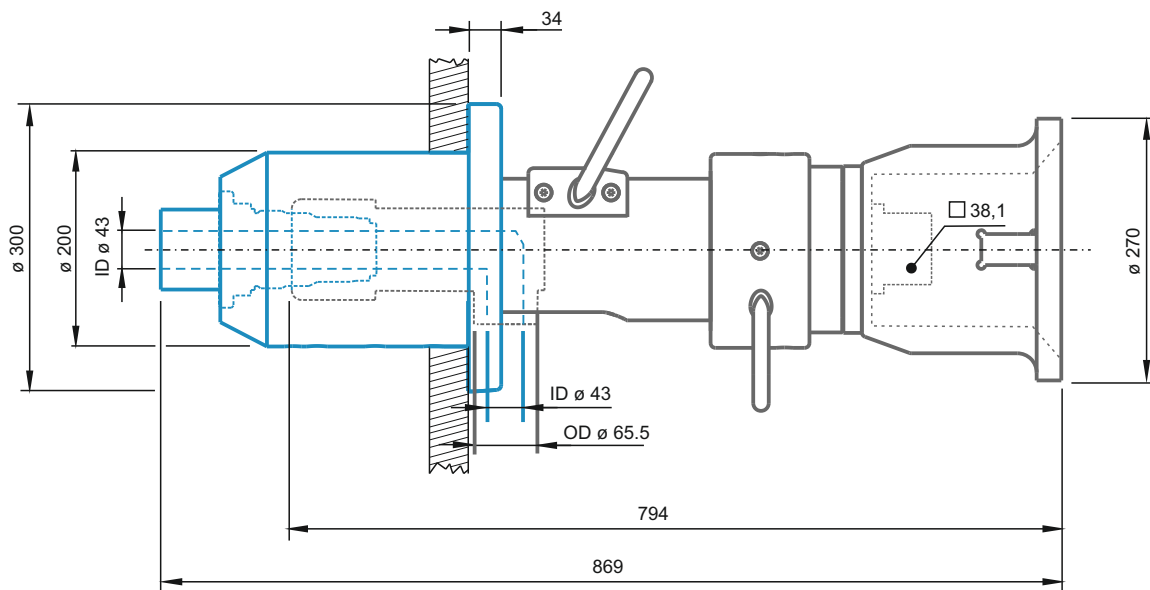
Technical specifications:

Type:	87-G50
Water depth:	5,000 m
Working pressure:	10,000 psi / 690 bar or 15.000 psi / 1,035 bar
Test pressure:	15,000 psi / 1,035 bar or 22,500 psi / 1,550 bar
Temperature range:	P; S; T; U (-29 °C to 121 °C)
Material class:	FF for wetted surfaces
Main materials:	Super Duplex, Duplex, stress de-rated regarding HISC acc. to DNV, Copper-Nickel Alloy
Size:	nominal 2", 43 mm bore
Termination on both ends:	to customer specification e.g. API flange, Grayloc®, bent pipes, threaded connections, weld stub etc.
ROV Interface:	API 17H class 4 bucket (polymer material)
Nominal mating torque:	500 Nm
Make up torque:	1,000 Nm
Break out torque:	2,400 Nm
Max. design torque:	2,700 Nm



Large bore 2" ROV connector

	Part Number
Female coupling 10k	87-G50-1-XX004-AAAA-Y01
Male coupling 10k	87-G50-4-XX004-AAAB-Y01
Female coupling 15k	87-G50-1-XX004-AAAE-Y07
Male coupling 15k	87-G50-4-XX004-AAAF-Y07
Compensated pressure cap	87-G50-5-.....-AAAE-Y07



More examples of Subsea Couplings



Elements for
plate mounting
Series OM



Elements for
cavity mounting
Type 84-006



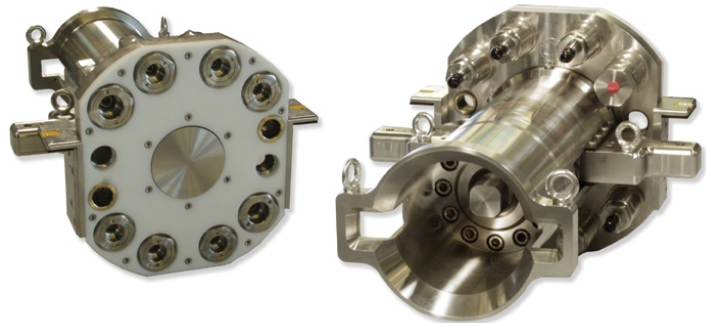
ROV operated coupling
Series 87



Workover stab plates
Type 91553



Emergency Disconnect Unit
Type 91559



ROV stab plates
Type 91561
also available with HFL, fully assembled

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