

Large bore ROV connector



Introduction:

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

It features a superior 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

Features:

- Flush funnel mount
- Qualified and proven locking design up to 5.000 m water depth
- Working pressure 10.000 psi, or 15.000 psi
- 30 years design life
- ROV mountable (torque tool API 17H class 4)
- NACE MR-0175 compliant for sour gas service
- Conform with API 6A /17D requirements
- API 17D /6A (PSL 3G) qualified
- Calcium carbonating protection, by colored coating
- All seals located on ROV free half
- Metal primary seal with double resilient backup seal
- Secondary release function
- End connection flange or weld stub to customer requirement
- free mounting orientation

Options:

- Bracing / reinforcement bracket on ROV side
- Material class API-HH for wetted surfaces
- Cathodically protectable
- Bucket in metal or polymer material
- Handles and lifting points can be added

Additional equipment:

- Protective equipment
- Parking station for ROV operated free half
- Flooding caps
- Tool kit (for seal replacement)
- Seal kit

Technical specifications:

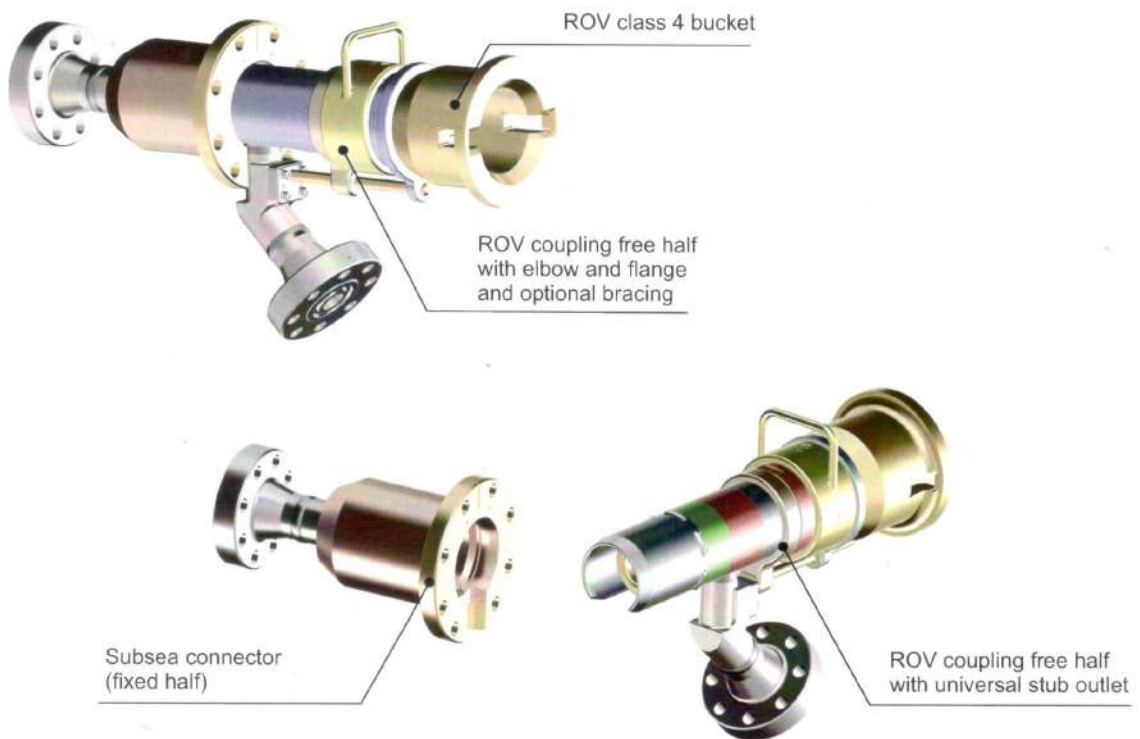
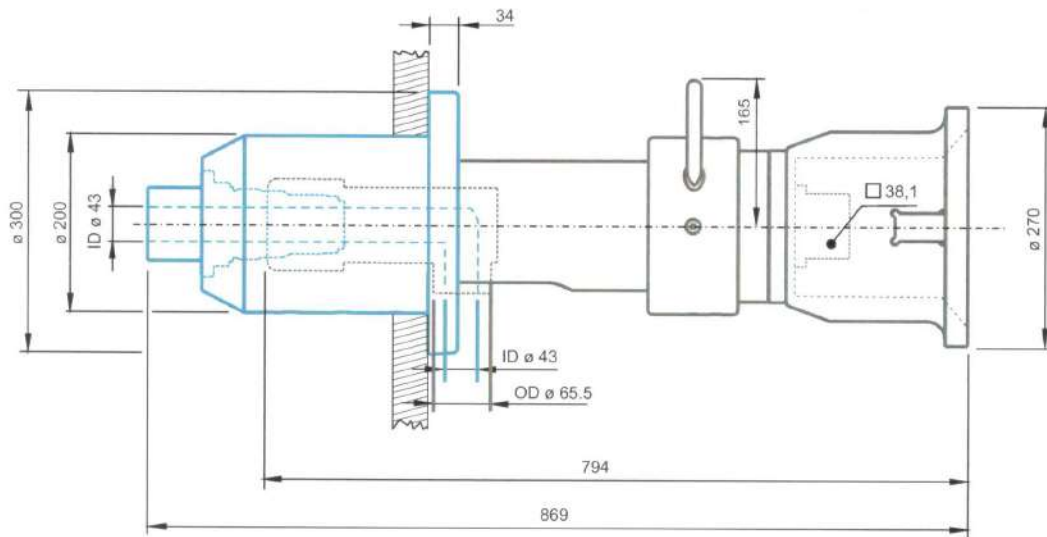
Type:	87-G50
Water depth:	5.000 m
Working pressure:	10.000 psi / 690 bar and 15.000 psi / 1035 bar
Test pressure:	15.000 psi / 1035 bar and 22.500 psi / 1550 bar
Temperature range:	P; S; T; U (-29 °C to 121 °C)
Material class:	FF for wetted surfaces
Main materials:	Super Duplex, Duplex, stress de-rated regaring HISC acc. to DNV, Copper-Nickel Alloy
Size:	2"; min. bore 43 mm
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
Nominal mating torque:	500 Nm
Make up torque:	1.000 Nm
Break out torque:	2.400 Nm
Max. design torque:	2.700 Nm



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	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



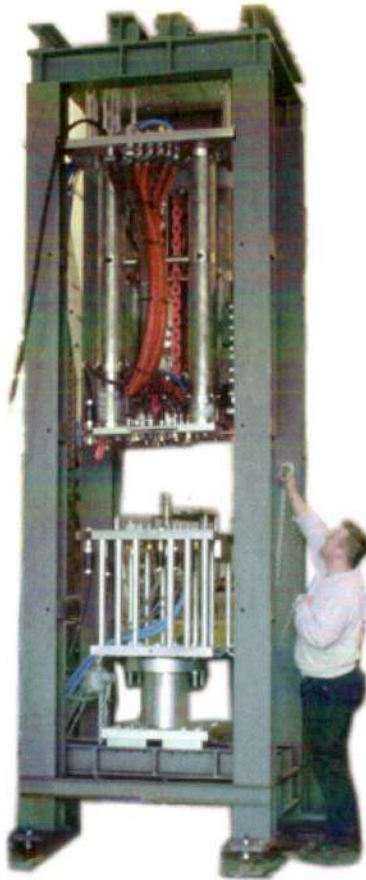
Elements for
cavity mounting
Type 84-006



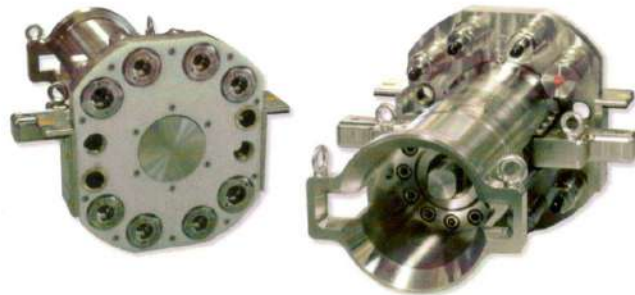
ROV operated coupling
Series 87



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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