

# murene™

Subsea oil filled  
pressure compensated system



PROTECTION



SUBSEA DESIGN LIFE



WATER DEPTH



STANDARD MATERIAL



QUALIFICATION

Confidence through competence

Transmark Subsea 



## Subsea oil filled pressure compensated system



**The hose conduit is specially designed as 1st barrier and mechanical protection for copper and fibre optical conductors. The hose is internally pressurized with a dielectric fluid.**

Between the two layers of rubber there is an axial layer of aramid fibre to absorb longitudinal pull load during handling and a cross woven layer of nylon/ polyester to provide the pressure compensation properties of the hose.

Design life is >30 years subsea at over 3500meters water depth. The Murene hose is designed to withstand the extreme snag loads it can be exposed to when handled by ROV's.

The Murene system will normally have a swaged fitting at both ends with the industry standard Mk2 interface. Further, the system is modular, comprising split boxes with multiple inlets/outlets.

Standard material is titanium grade 2. Other materials can be supplied on request.

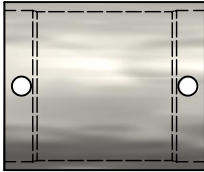
# Specifications

Model	DN 12	DN 20
Applicable standards	Statoil TR1229 Ver. 5/ TR1233 Ver. 4/ TR2390 Ver. 2	
Nominal ID	13 mm	19 mm
Nominal OD	25 mm	32 mm
Material	Innerliner: NBR, Cover: NVC/SBR	
Colour	Inner liner: Black Cover: Orange	
Marking	Model, prod. quarter, batch number	
System depth rating	3500m salt water	
Work pressure system internal	10 bar	
Burst pressure, hose internal	>90 bar	
Elongation at 10 bar	+/-2%, typical <1% at 2500N tension	
Volumetric expansion	>10% at 10 bar internal pressure	
Storage temperature	-40 to +60 °C (-40 to 140 °F)	
Work temperature	-5 to +40 °C (23 to 104 °F)	
Bend radius	150 mm	
Compatibility	Inner liner: silicone, synthetic hydraulic oil · Cover: seawater	
End terminations	Titanium gr. 2 Mk2 fittings, straight, 90 deg. bend or 45 deg. bend	
Breakouts	Split boxes in Titanium gr. 2 with 1-4 inlets and 1-4 outlets · NBR/NR splitters	



## Overview of splitbox parts

SPLITBOX Ø89-106



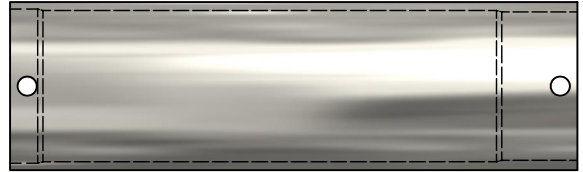
PART NO.: 211478

SPLITBOX Ø89-206



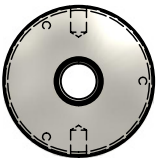
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SPLITBOX Ø89-300 (SPECIAL)



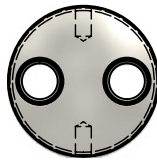
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LID 1 WAY SPLITBOX 13 MM HOSE



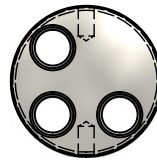
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LID 2 WAY SPLITBOX 13 MM HOSE



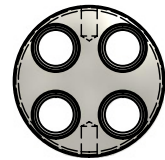
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LID 3 WAY SPLITBOX 13 MM HOSE



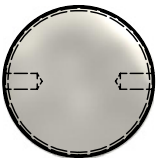
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LID 4 WAY SPLITBOX 13 MM HOSE



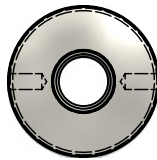
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LID BLIND FOR SPLITBOX



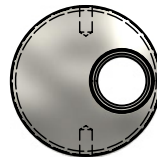
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LID 1 WAY SPLITBOX 20 MM HOSE



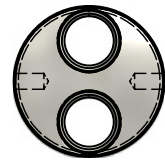
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LID FOR SPLITBOX 20 MM HOSE



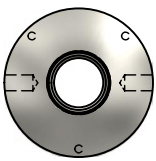
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LID 2 WAY SPLITBOX 20 MM HOSE



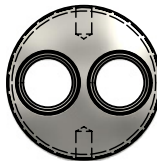
PART NO.: 211774

LID 1 WAY FOR 20 MM HOSE (SPECIAL)



PART NO.: 103791

LID 2 WAY FOR 20 MM HOSE (SPECIAL)



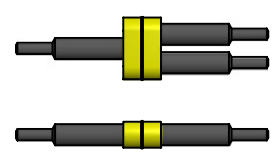
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HOLDER FOR Y-SPLIT ASSY



PART NO.: 103793

BOOTSEAL Y-SPLIT ASSY



PART NO.: 103789