

FMC Technologies

EGINA

PERSONAL HANDBOOK
SUBSEA PRODUCTION SYSTEM

Gas Export line to Akpo/Amenam



This edition of Personal Handbook for EGINA's Subsea Equipment was completed from the publisher in 2016.

A publication from FMC Technologies, 3D and Multimedia CS, Kongsberg.

All rights reserved. Reproduction of this publication entirely or in parts is not allowed without the written permission of FMC Technologies.

Document number: RPT60112114

CPY doc number: NG-EGN-30-FMEC-003953

INTRODUCTION

This issue is aimed at the Egina Project. Project Code: N10007.

The purpose of the book is to provide general information on the equipment.

The handbook must not replace the DFO (Documents for Operation) as any information may be changed or updated without further notice.

All dimensions are given in mm.

CONTACT INFORMATION:

FMC Technologies Customer Support Base (Onne)

FOT Port Complex
Onne, Rivers State
Nigeria
Telephone: +1-281-445-6584

FMC Technologies (Lagos)

22A Gerrared Road
Ikoyi Lagos
Nigeria
Telephone: +234-1-270-0735/+234-1-270-0736

FMC Technologies Kongsberg

PO Box 1012
3601 Kongsberg
Norway
Telephone: +47 32286700
Telefax: +47 32286750

FMC Technologies Customer Support (ER)

PO Box 103
5346 Ågotnes
Telephone: +47 56323232
Telefax: +47 56323235

FMC Technologies Dunfermline

Pitreavie Business Park
Dunfermline
Scotland
KY11 8UD
Telephone: +44 1383 731531

Contents

System	
Contents	4
Abbreviations	9
Field Layout	11
Field Schematic	12
Scope of Supply	14

Topside Control System and Subsea Distribution	
Topside cabinets (SCU, SPCU and SDPU)	15
Topside HPU	16
Subsea Control Block Diagram, Topside	17
Network topology	18
Overall Subsea Distribution optical and electrical	19
Subsea Distribution Unit (SDU)	25
Subsea Distribution Unit (SDU) Schematic	26
Umbilical Termination Assembly (UTA)	27
Umbilical Termination Assembly (UTA) Schematic	28
MQC-13 MKII Outboard Plate	29
Manifold Module, Electrical Distribution schematic	30
Subsea Router Module (SRM) MKIII electrical schematic	31
Manifold Control Module (MCM) MKIII electrical and hydraulic schematic	32
Production Control Module (SCM) MKIII electrical and hydraulic schematic	33
Injection Control Module (SCM) MKIII electrical and hydraulic schematic	34
Pig Detector	35
Flying Leads	36

Wellhead and Tubing Hanger System	
Wellhead Scope of Supply	37
Gasmat	38
Permanent Guide Base	39
Wellhead stack-up drawing	40
Conductor Housing	42
Wellhead Housing (Light and Heavy Architecture)	43
Casing Hanger 14"	44
Casing Hanger 10 3/4"	45
Wear Bushing UWD-15, 18 3/4" Nominal Bore	46
Wear Bushing UWD-15, 18 3/4" x 10 3/4" W/9.960"	47
Wear Bushing UWD-15, 18 3/4" W/ 12.689" min bore, F/14 inch Casing Hanger	48
Conductor Housing Running Tool	49

Contents

Wellhead Running Tool	50
Drill Ahead Tool (DAT)	51
Wash Out Tool	52
Cement Cleanout Tool	53
Single Trip Tool (STT)	54
Spring Loaded Tool (SLT)	55
Annulus Seal Assembly Running Tool	56
Temporary Abandonment (TA) Cap	57
Tubing Hanger Scope of Supply	58
Tubing Hanger, Injection with Pup Joint	59
Tubing Hanger, Injection, without Pup Joint	60
Tubing Hanger, Production, with Pup Joint	61
Tubing Hanger, Production, without Pup Joint	62
Tubing Hanger Running Tool (THRT)	63
Tubing Hanger Annulus Access Joint (THAAJ)	64
Tubing Hanger Hang-off Bushing	65
Tubing Hanger Lead Impression Tool	66
Tubing Hanger Test/Handling Tool	67
Tubing Hanger Deck Storage/Setting Stand	68
Tubing Hanger Orientation Joint (THOJ)	69
Tubing Hanger Orientation Joint Overshot Tool	70
Tubing Hanger Mechanical Retrieval Tool	71

Xmas Tree System	
Xmas Tree System Scope of Supply	72
Wellhead/Conductor + Gasmat + PGB + Xmas Tree (incl. stack-up heights)	73
Xmas Tree, Production	74
ROV Panel, Xmas Tree Production	75
Xmas Tree Production, schematic	77
Subsea Control Module (SCM) hydraulic schematic, Production	78
Xmas Tree, Injection	79
ROV Panel, Xmas Tree Injection	80
Xmas Tree Injection, schematic	82
SCM hydraulic schematic, Injection	83
Torus IV connector	84
2 1/16" - 10K Gen1 E3 Actuator	85
5 1/8" - 10K Gen1 E3 Actuator	86
Choke Insert	87
Choke Insert Running Tool	88
ROV Installed Tree Cap	89
18-3/4" VX Gasket and Contingency Gasket	90

Contents

Xmas Tree Test Stump w/ VX profile	91
Xmas Tree Running Tool (Basecase)	92
Xmas Tree Handling Tool	93
Mechanical Release Tool f/ Xmas Tree	94
Acoustic Sand Detector (ASD) and Downhole Interface Unit (DIU)	95
Chemical Injection Throttle Valve (CITV) and Subsea Acoustic Monitoring System (SAMS)	96
Xmas Tree, SCM and field location, blank table, to be filled in by hand after installation	97

Workover System – TH mode

Simplified Landing String (SLS)	98
SLS Shear Joint	99
SLS System Schematic	100
Riser Joints	101
WO Riser Arrangement from CHA to THRT in TH mode	102
Umbilical Configuration, TH mode	103
Circulation Head, Swivel, Riser Slick Joint and Riser Slick Joint extension	104
Stack-up elevations, Pacific Scirocco	105
Stack-up elevations, West Jupiter	106
THOJ Overshot Tool	107
Hang off bushing TH & XT mode	108

Workover System – Xmas Tree mode

WO Riser Arrangement from SFT to LRP in XT Mode	109
Umbilical Configuration, XT Mode	110
EDP/LRP/XT Stack-up, Production	111
EDP/LRP/XT Stack-up, Injection	112
Workover Riser (WOR) arrangement from Tension Frame to XT in Xmas Tree Mode	113
Lower Riser Package (LRP)	114
Lower Riser Package ROV Panel	115
LRP Connector	116
Lower Riser Package (LRP) schematic	117
Emergency Disconnect Package (EDP)	118
Emergency Disconnect Package ROV Panel	119
Emergency Disconnect Package (EDP) schematic	120
EDP Connector	121
Tension Frame	122
Surface Flow Tree	123
Special Joints on XT mode	124

Contents

Installation & Workover Control System (IWOCS)

IWOCS System, Topside Scope of Supply	125
IWOCS electrical and hydraulic schematics - (Production) Xmas Tree mode layout	126
IWOCS electrical and hydraulic schematics - (Injection) Xmas Tree mode layout	127
Workover Control Module (WOCM) Schematic	128
Emergency Quick Disconnect (EQD), Emergency Shutdown (ESD), Production Shutdown (PSD) Panel	129
EQD, ESD, PSD Systems	130
Umbilical Sheaves	132
Surface Flow Tree (SFT) Control Panel	133
HPU/MCS Hydraulic Schematic	134
Workover Umbilicals w/reel, Workover Umbilical	139
Workover Umbilicals w/reel, HSLV Umbilical	140

Manifold and Foundation

Manifold Module	141
Large Bore	142
Manifold Support Structure (MSS)	143
Closed Caisson Foundation (CCF)	144
Pig Loop Module	145
OEM Ball Valve Assy, Subsea, 13.625 inch	146
5 1/8" Gate Valve, hydraulic actuated	147
5 1/8" Gate Valve, ROV operated	148
OEM Gate Valve Assy, Subsea, 2.06 inch, Hydraulic Operated	149
OEM Gate Valve Assy, Subsea, 2.06 inch, ROV operated	150
Manifold Module flow schematic	151
Manifold Valve Types	152
Valve Operational Data	153
Multi Phase module (MPM)	154
Dummy Multi Phase module	155

Tie-in and Intervention System

Module Running Tool – SCM MKII	156
High Pressure Metal Re-Installable (HPMRI) Inboard Caps	157
High Pressure Metal Re-Installable (HPMRI) Inboard Caps	158
Low Pressure (LP) Inboard and Outboard Caps. Protection Inboard Caps	159
High Pressure Elastomer (HPE) Outboard Caps	160
Tubing Hanger Orientation Check Tool – laser type w/calibration tool	161

Contents

ROV Tools

Subsea Tools - General Equipment	162
Subsea Tools - UCON General Equipment	166
Subsea Tools - Metrology Equipment	168
Subsea Tools - UCON 12" Products	169
Subsea Tools - UCON 18" Products	172
Test/Handling Equipment	174
Multi Phase Meter module (MPM) Tools	176

Umbilical, Flowline and Well Jumper System

Well Jumpers	177
Termination Heads	178
Hubs	180
Basket for Flying Leads	181

Mini-IWOCS

Scope of Supply	182
Production VXT, Subsea System Schematic	184
Injection VXT, Subsea System Schematic	185
Tree on Wire Running Tool	186

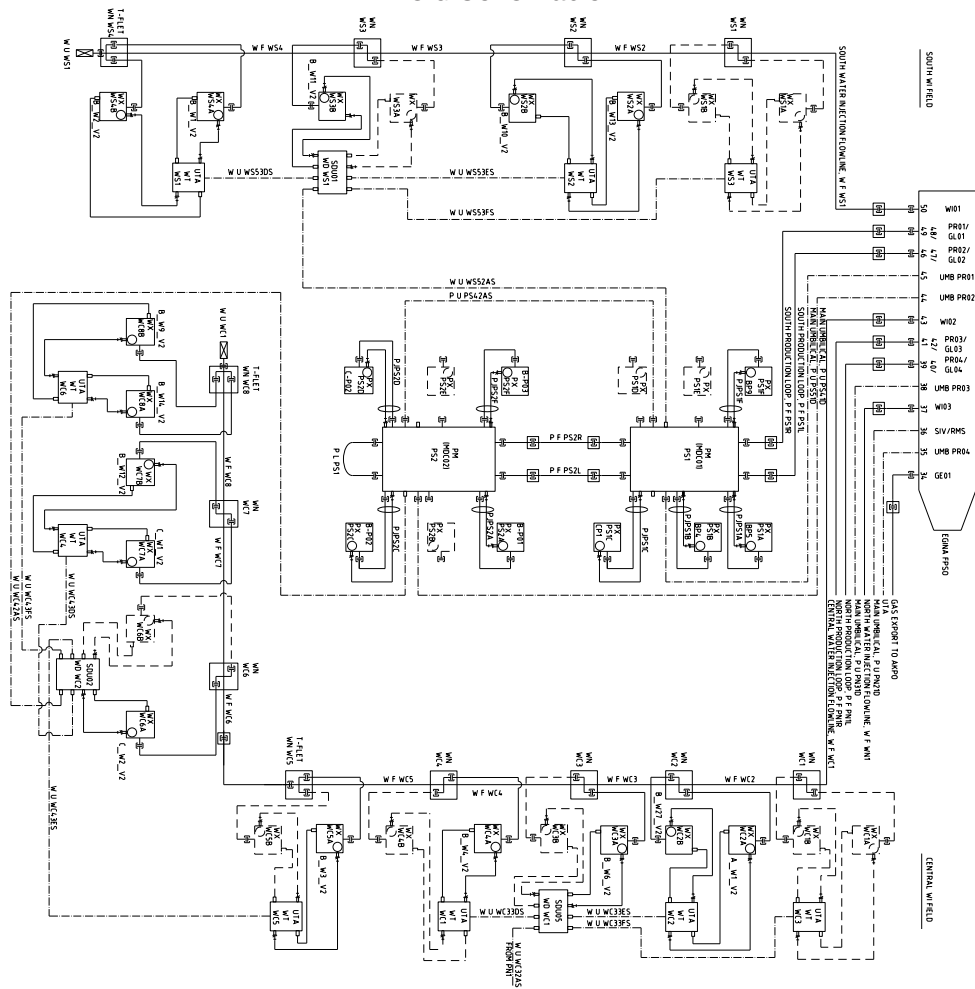
Tables

Component Dimensions and Weight	187
---------------------------------	-----

Abbreviations

ABV	Annulus Bleed Valve	EWS	Engineering Work Station
AIV	Annulus Isolation Valve		
AMV	Annulus Master Valve	EVXT	Enhanced Vertical (Subsea Christmas) Tree (FMC™)
API	American Petroleum Institute		
APIV	Accumulators for PIV	EQD	Emergency Quick Disconnect
APUL	Accumulators for Primary Unlock	FLET	Flowline End Termination
ARRV	Accumulators for Retainer Valve	GP	Guide Post
ASA	Annulus Seal Assembly	HCG	Horizontal Center of Gravity
ASD	Acoustic Sand Detector	HP	High Pressure
ASART	Annulus Seal Assembly Running Tool	HPU	Hydraulic Power Unit
ASUL	Accumulators for Secondary Unlock	HS	H2S Scavenger
		HSLV	High Set Lubrication Valve
ASSR	Accumulators for SSR	ITA	In-Line Tee Assembly
ATV	Annulus Test Valve	IWOCS	Intervention (or Installation) Workover Control System
AVAV	Annulus Vent Access Valve		
AWV	Annulus Wing Valve	LAIV	Lower Annulus Isolation Valve
BLA	Bleed Accumulators		
BLL	Bleed Lock Line	LP	Low Pressure
BOP	Blow Out Preventer	LRP	Lower Riser Package
BPV	By-pass Valve	M2M	Metal-to-Metal
CCF	Closed Caisson Foundation (Suction Pile)	MCM	Manifold Control Module
		MCP	Master Control Panel
CDV	Contingency Disconnect Valve	MCS	Master Control Station
CG/ CoG	Center Of Gravity	MFM	Manifold Flow Module
CH	Circulation Head	MIV	Methanol Injection Valve
CHA	Cobra Head Assembly	MPFM	Multi-Phase Module
CI	Chemical Injection	MQC	Multi Quick Connector
CIRT	CI Running Tool	MSS	Manifold Support Structure
CITV	Chemical Injection Throttle Valve	MUL	Mechanical Unlock
CST	Connector Seal Test	OPT	Optical
CSV	Charge Selector Valve	OD	Outer Diameter
DAT	Drill-Ahead Tool	PCV	Production Choke Valve
DFO	Documents for Operation	PGB	Permanent Guide Base
		PIV	Production Isolation Valve
DIU	Downhole Interface Unit (Intelligent Well Control)	PMV	Production Master Valve
DH	Down Hole	PSD	Production (Or Process) Shut-Down
DP	Drill Pipe		
EL	Electrical	PSV	Pressure Safety Valve
ESD	Emergency Shut Down	PWV	Production Wing Valve

Field Schematic

[illegible]

NOTES

1 FOR LEGEND REF PLAD NG-EGN-30-FMEC-002462 SMT 01 / 02 / 03

---	FUTURE (FMC) SCOPE

---	FMC SCOPE

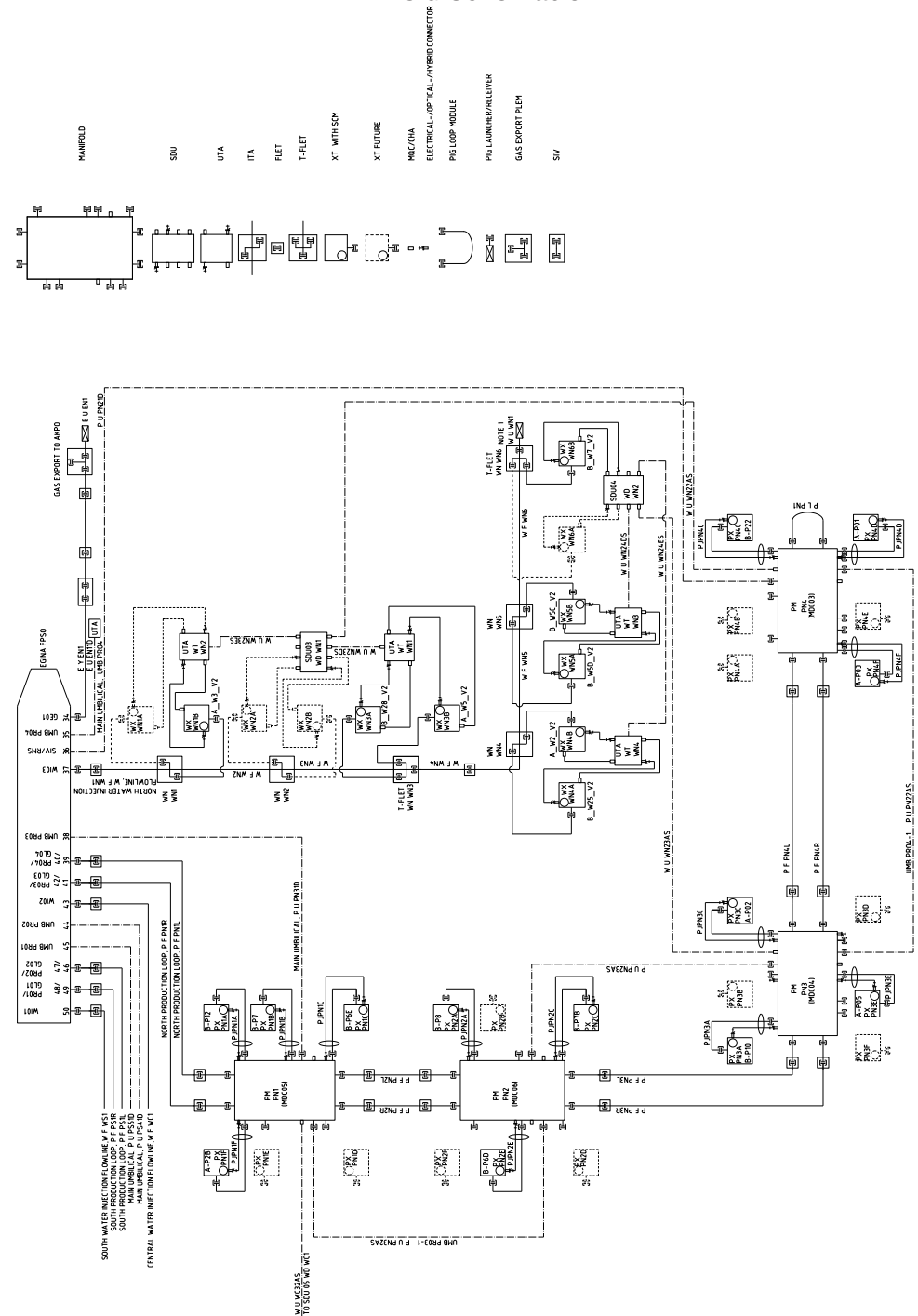
---	OTHER CONTRACTOR (BY OTHERS)

---	FUTURE OTHER CONTRACTORS

NOTE: Tags can be found on document NG-EGN-30-FMEC-005414
NG-EGN-30-FMEC-005412

EGINA 12

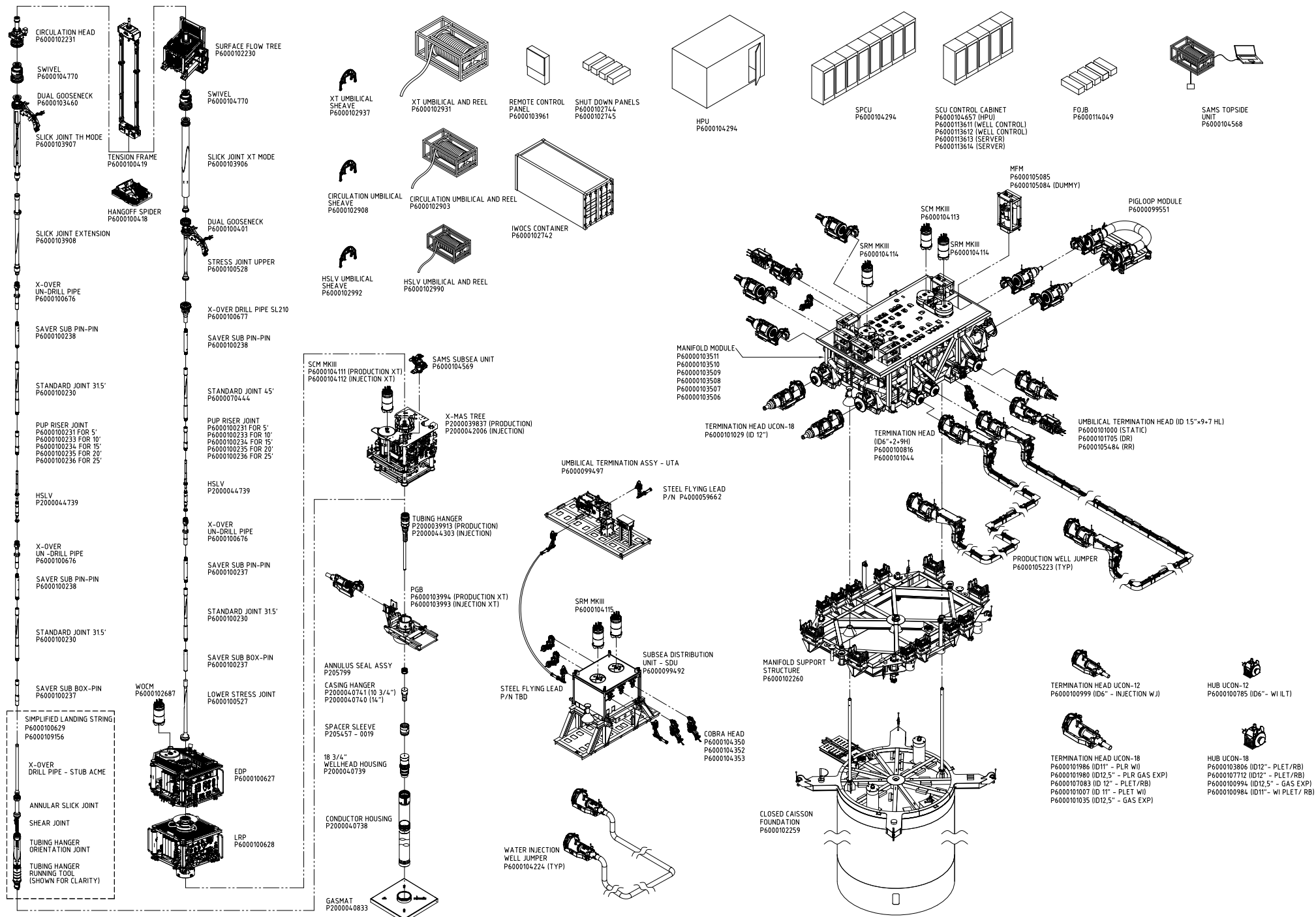
Field Schematic



NOTE: Tags can be found on document NG-EGN-30-FMEC-005414
NG-EGN-30-FMEC-005413

EGINA 13

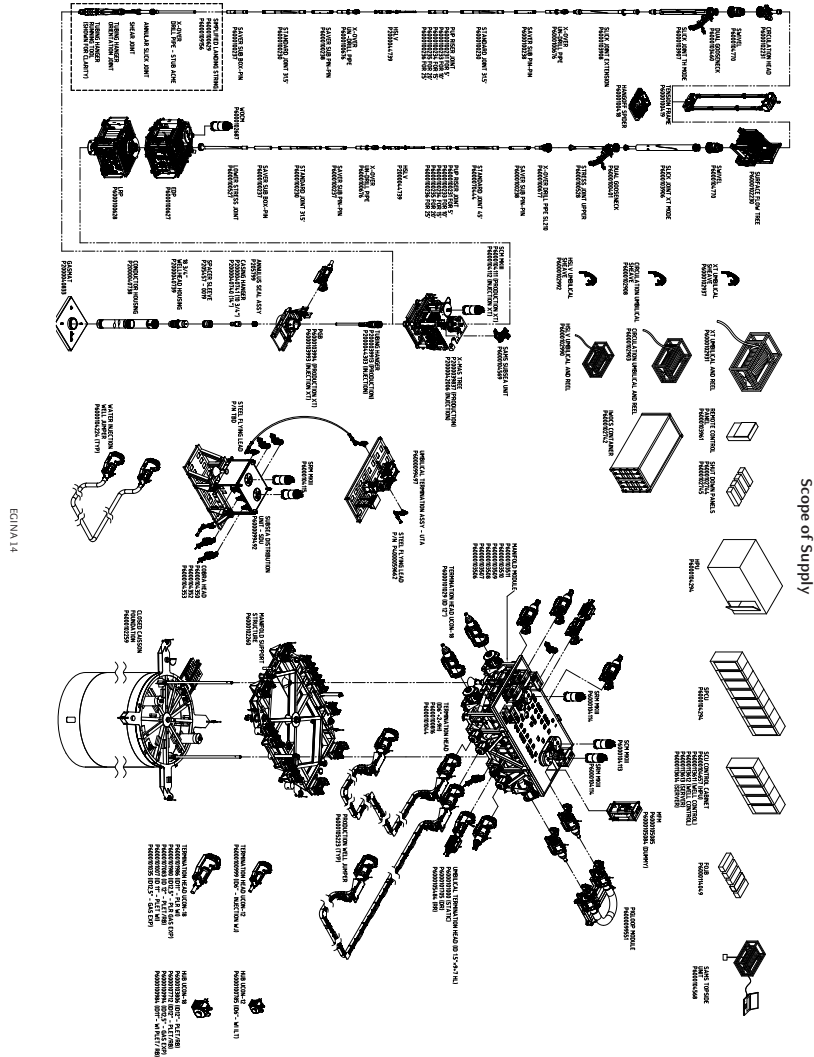
Scope of Supply



Scope of Supply

FOLD OUT
UTBRETT

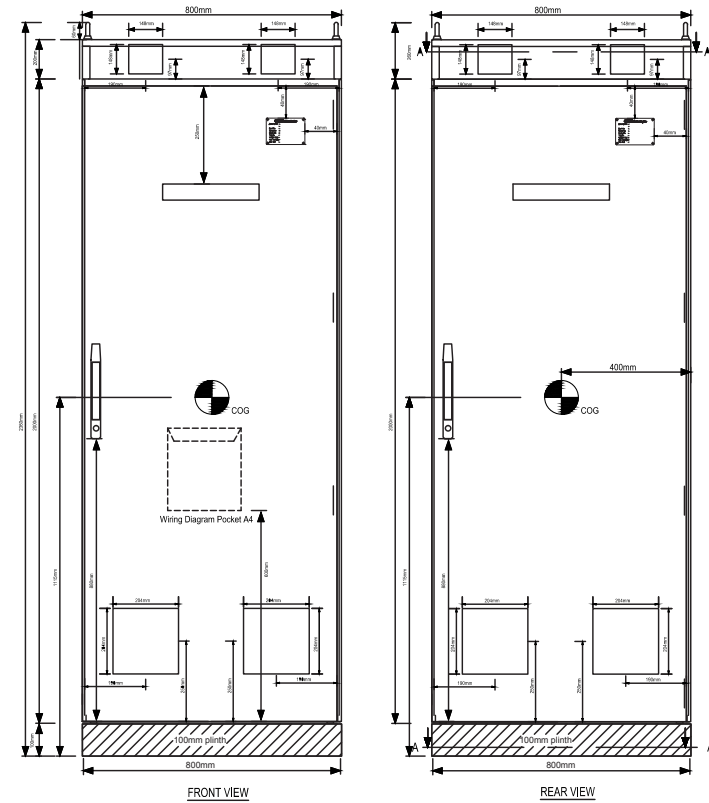
SYSTEM



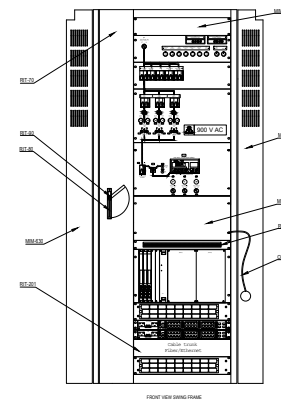
Scope of Supply

Topside cabinets (SCU, SPCU and SDPU)

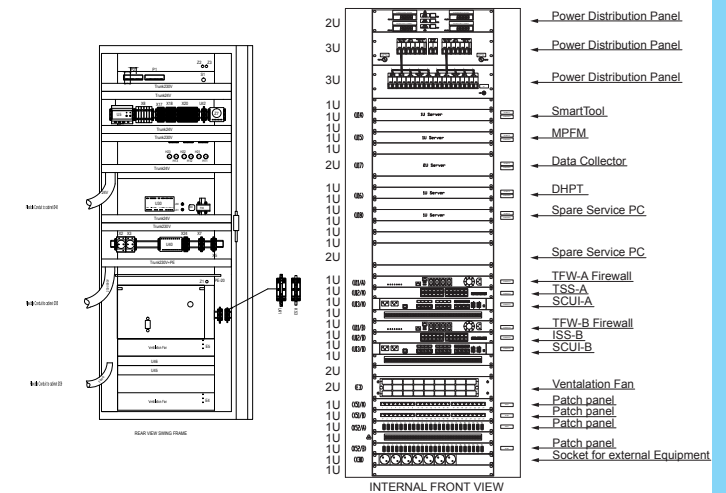
SCU



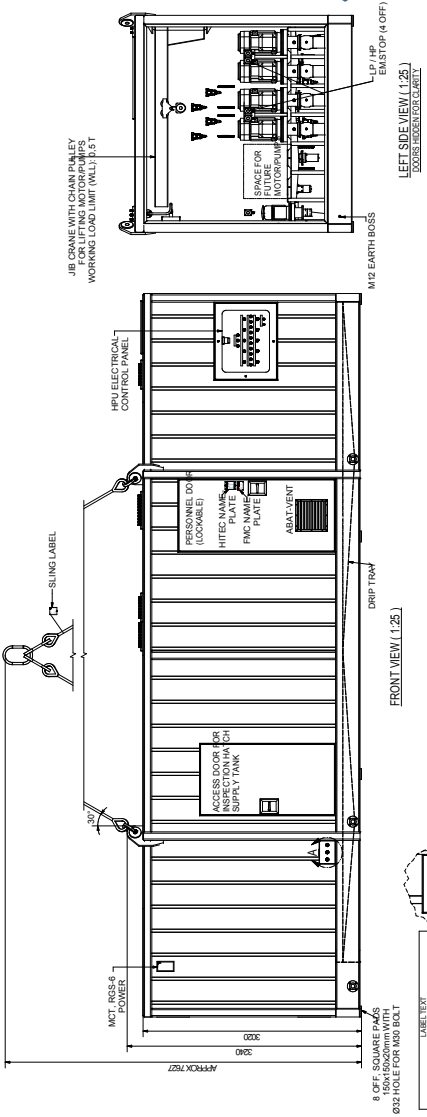
SPCU



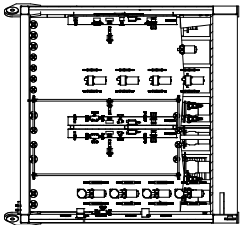
SDPU



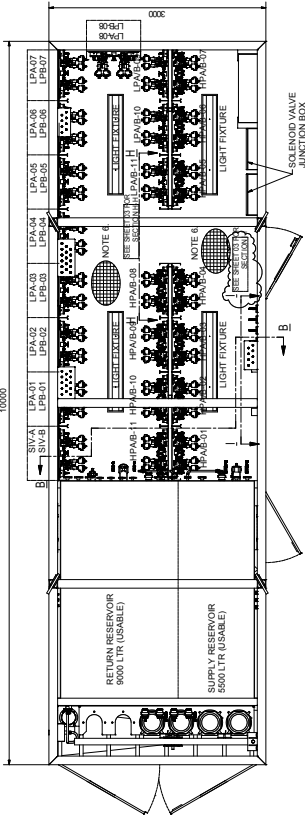
Topside HPU



EGINA 16



B-B (1:25)

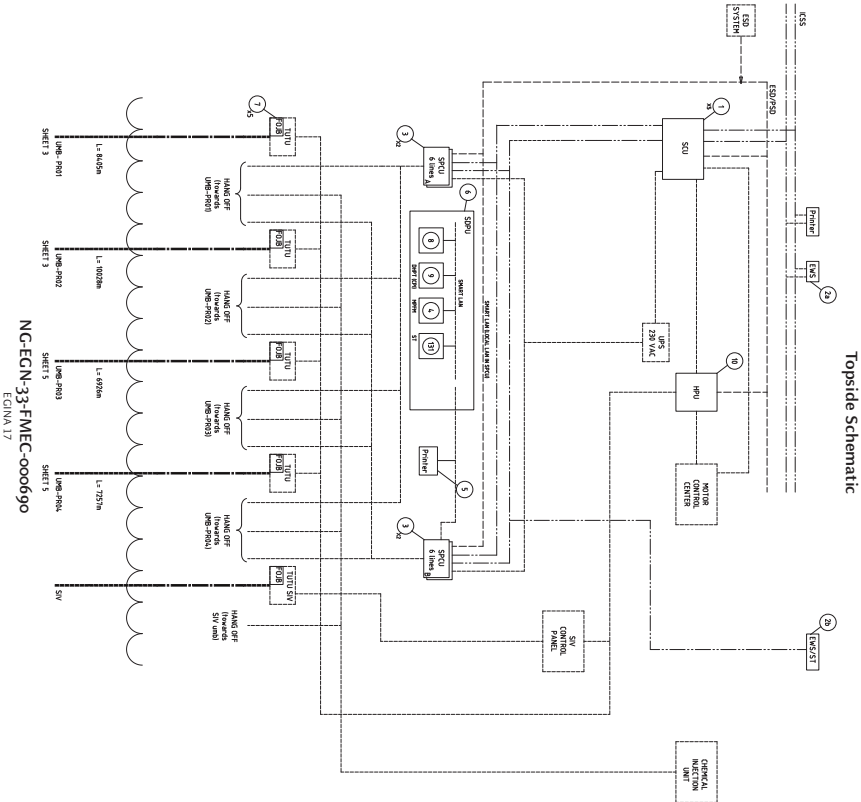


TOP VIEW (1'25)



Subsea Control Block Diagram, Topside

FOLD OUT UTBRETT

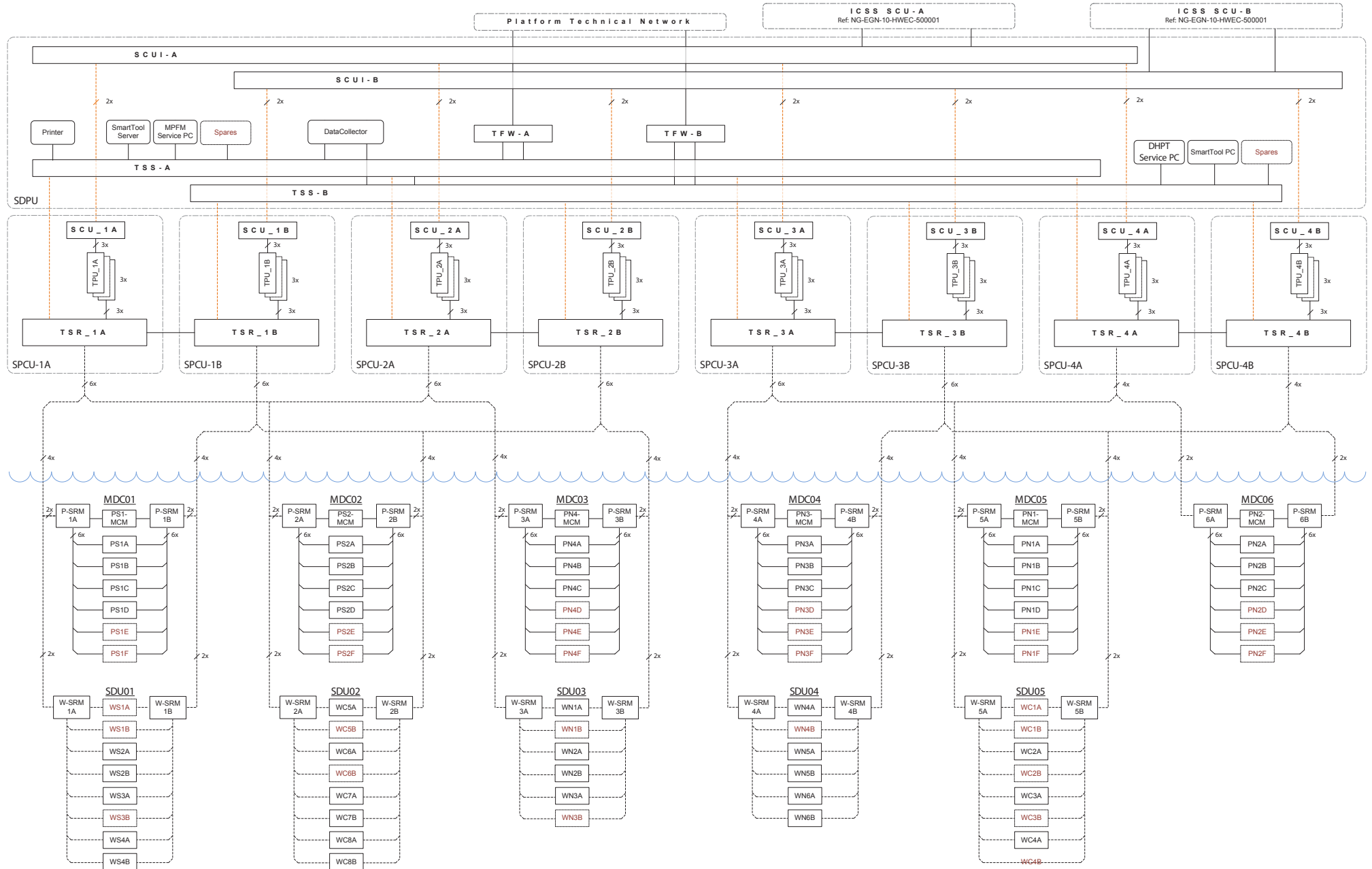


Topside Schematic

TOPSIDE CONTROL SYSTEM AND SUBSEA DISTRIBUTION

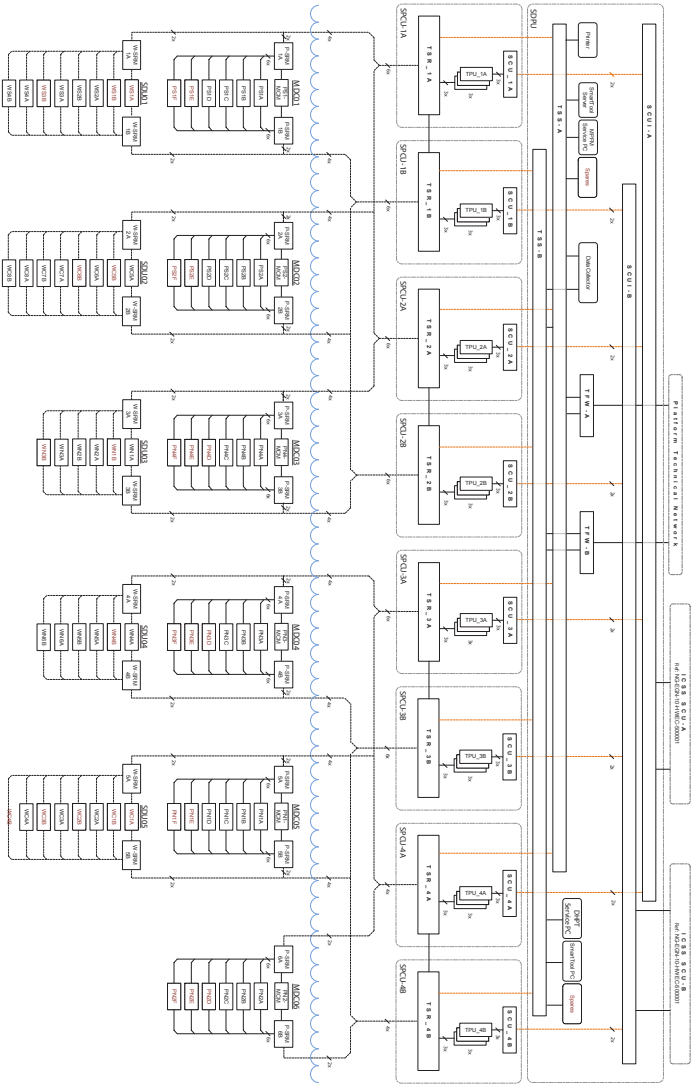


Network topology



Network topology

TOPSIDE CONTROL SYSTEM AND SUBSEA DISTRIBUTION



NG-EGN-33-FMEC-003194

EGINA 18

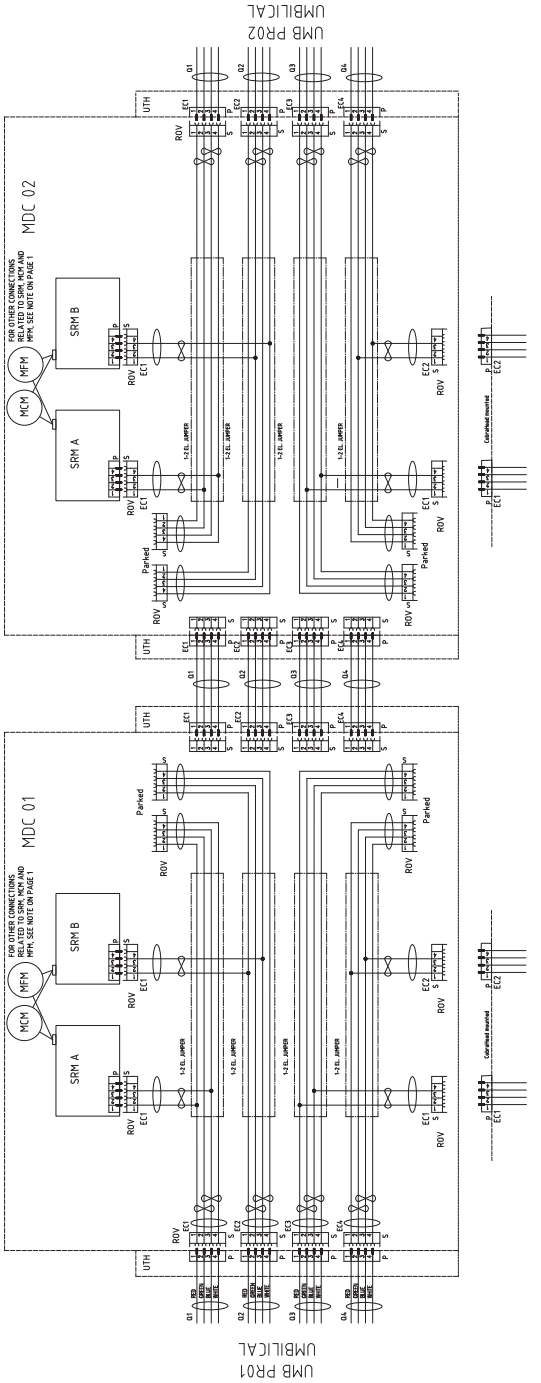
FOLD OUT
UTBRETT

NG-EGN-33-FMEC-003194

EGINA 18

Network topology

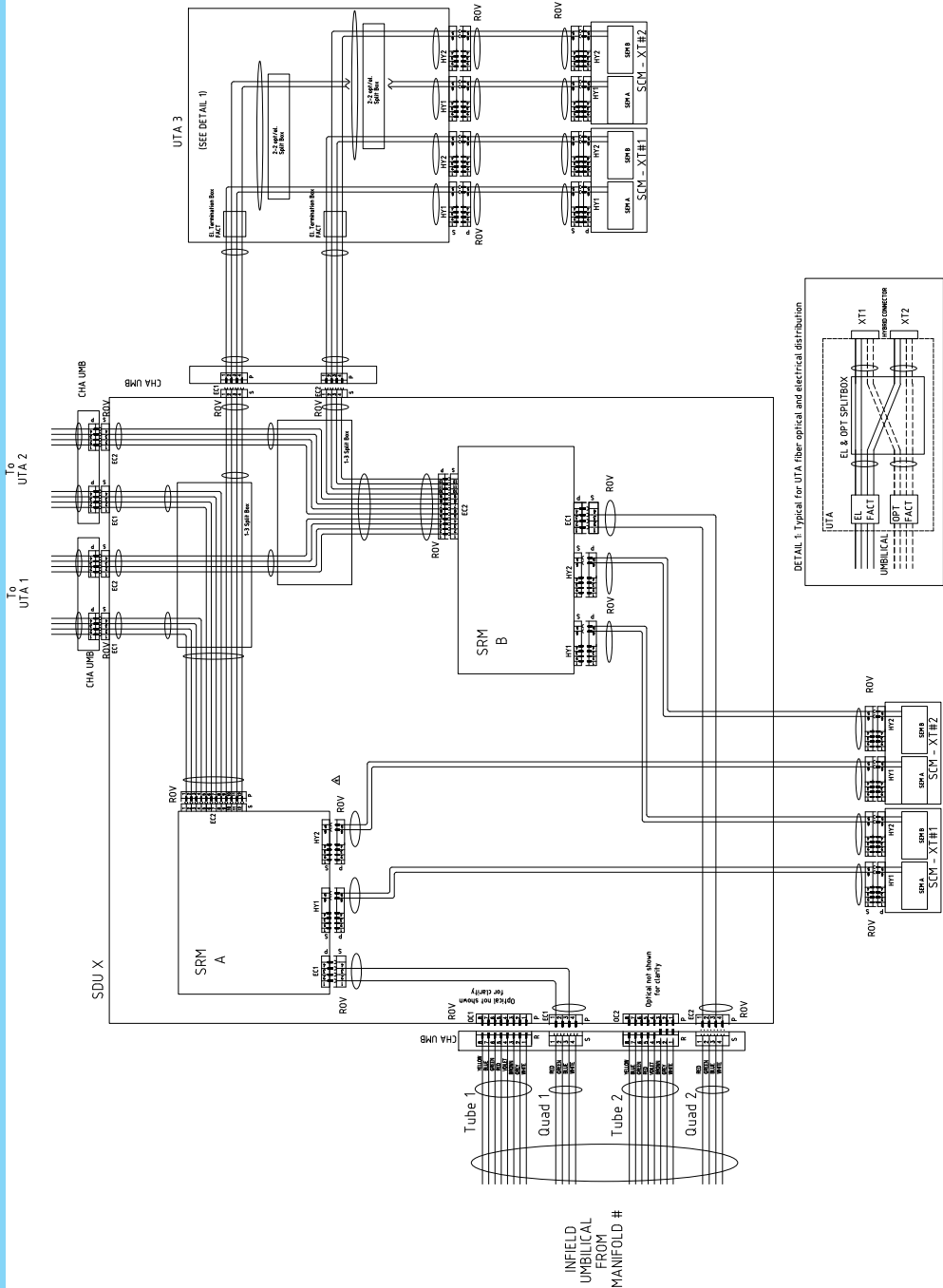
Overall Subsea Distribution optical and electrical



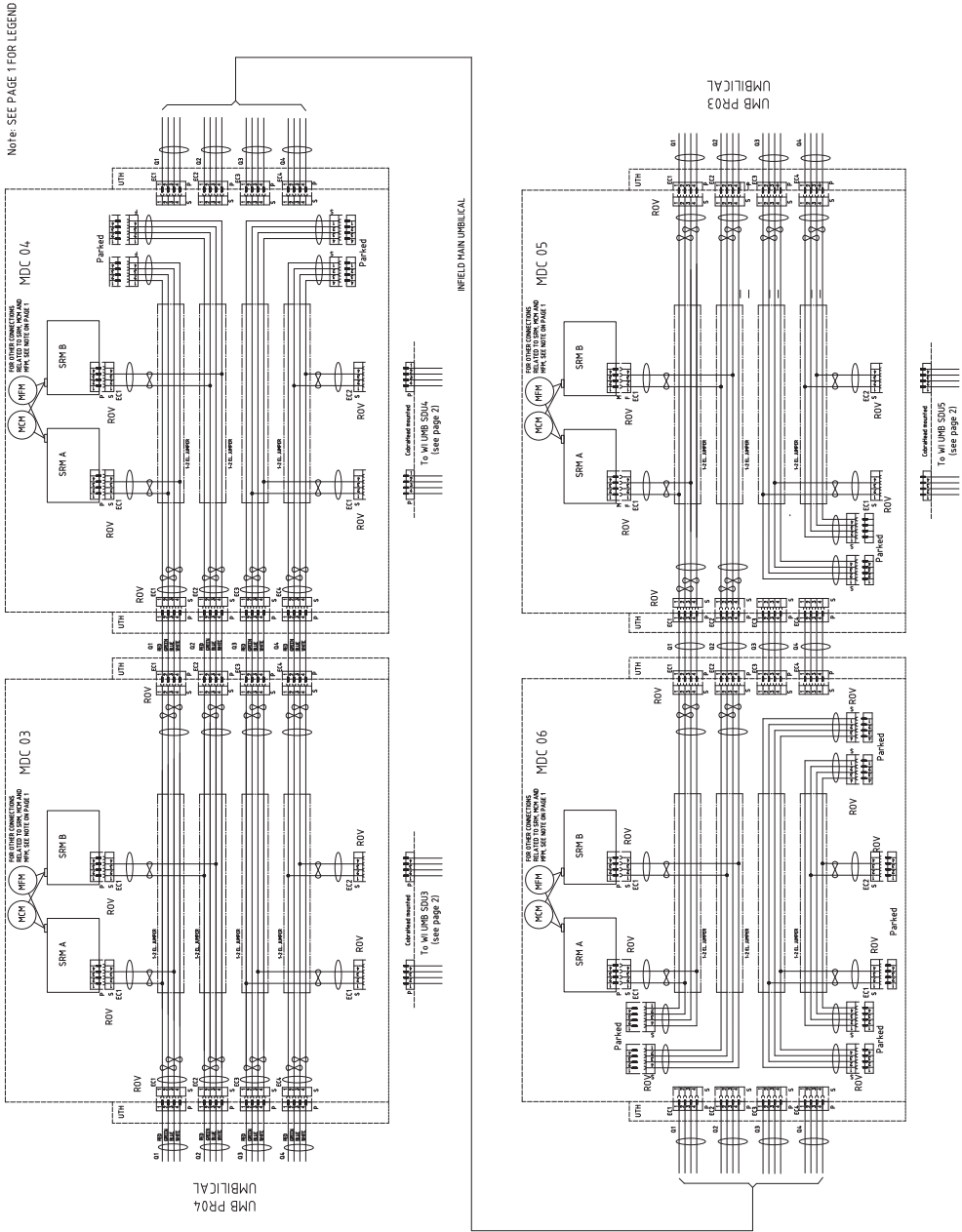
NG-EGN-33-FMEC-000692

EGINA 19

Overall Subsea Distribution optical and electrical



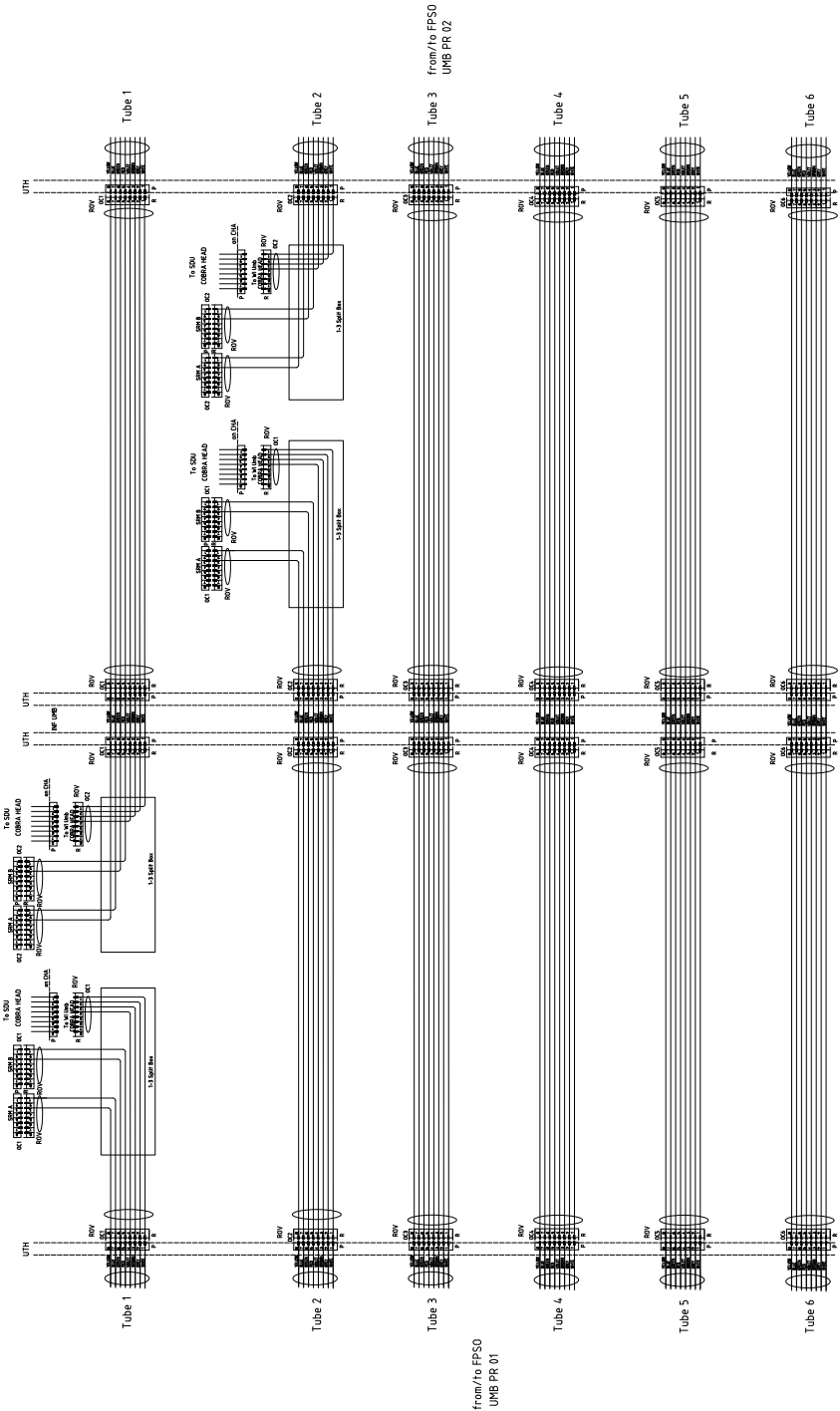
Overall Subsea Distribution optical and electrical



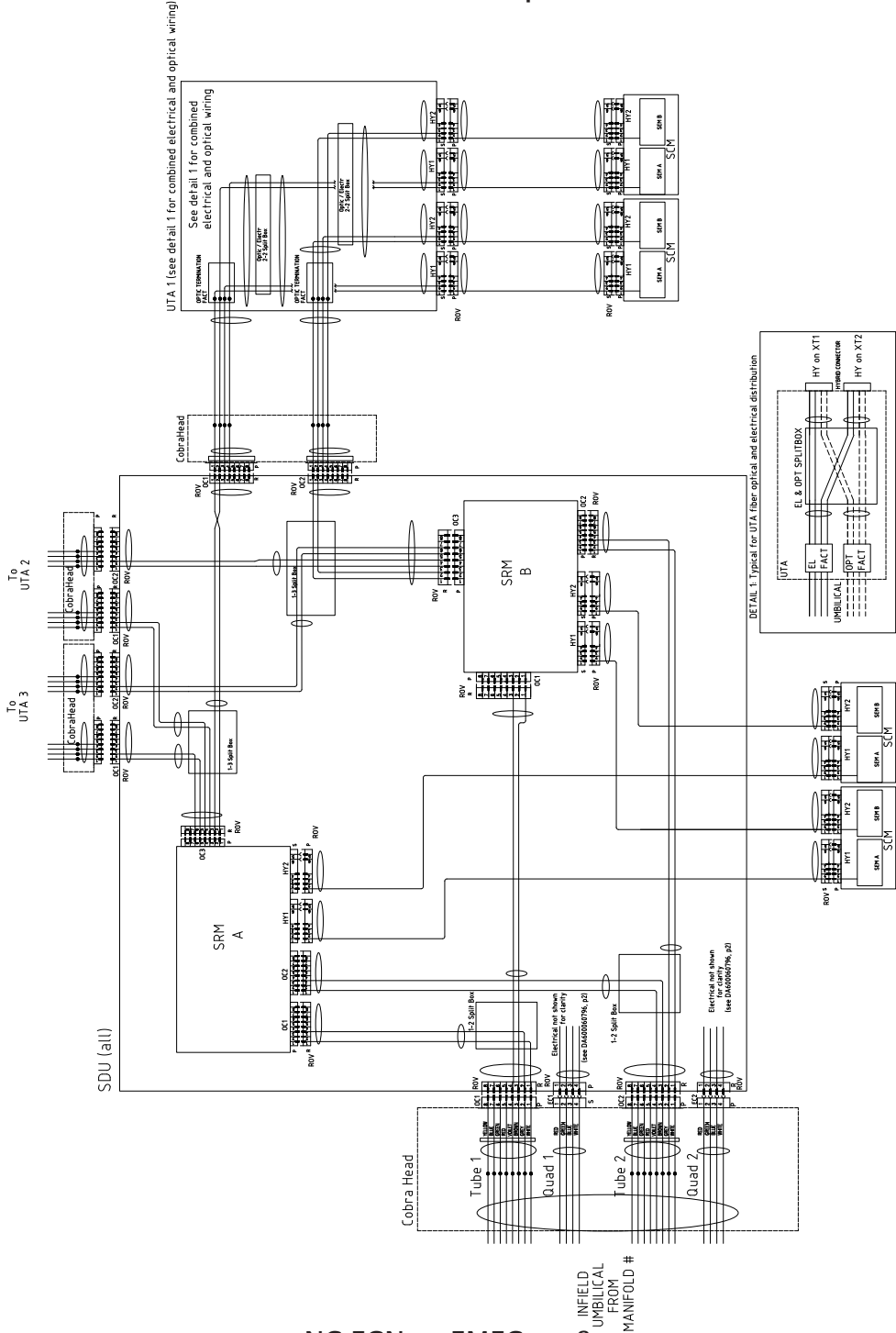
Note: SEE PAGE 1 FOR LEGEND

MDC 1

MDC 2



NG-EGN-33-FMEC-000844
EGINA 22



NG-EGN-33-FMEC-000844
EGINA 23

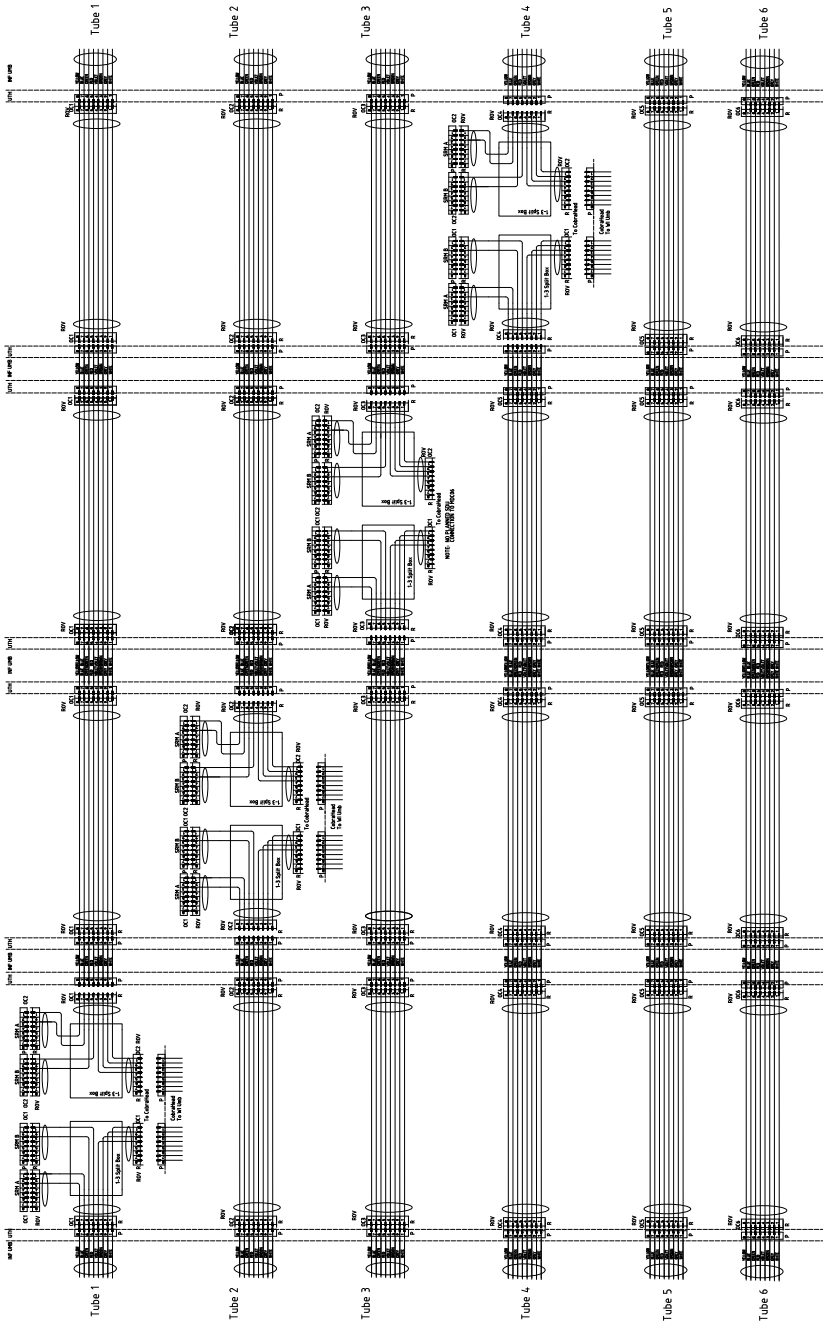
NOTE: SEE PAGE 1 FOR LEGEND

MDC 05

MDC 06

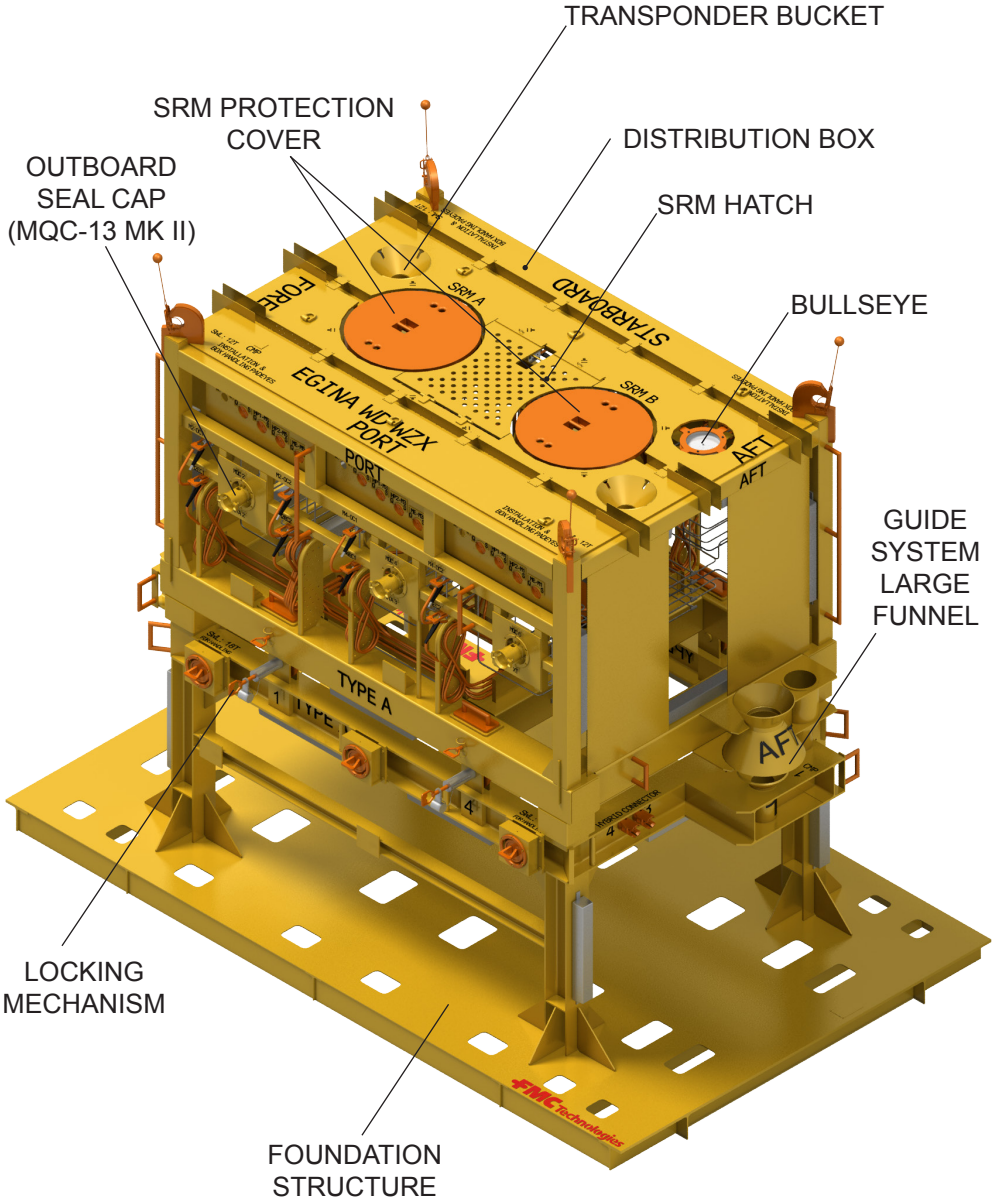
PEUL 04

PEUL 03



NG-EGN-33-FMEC-000844
EGINA 24

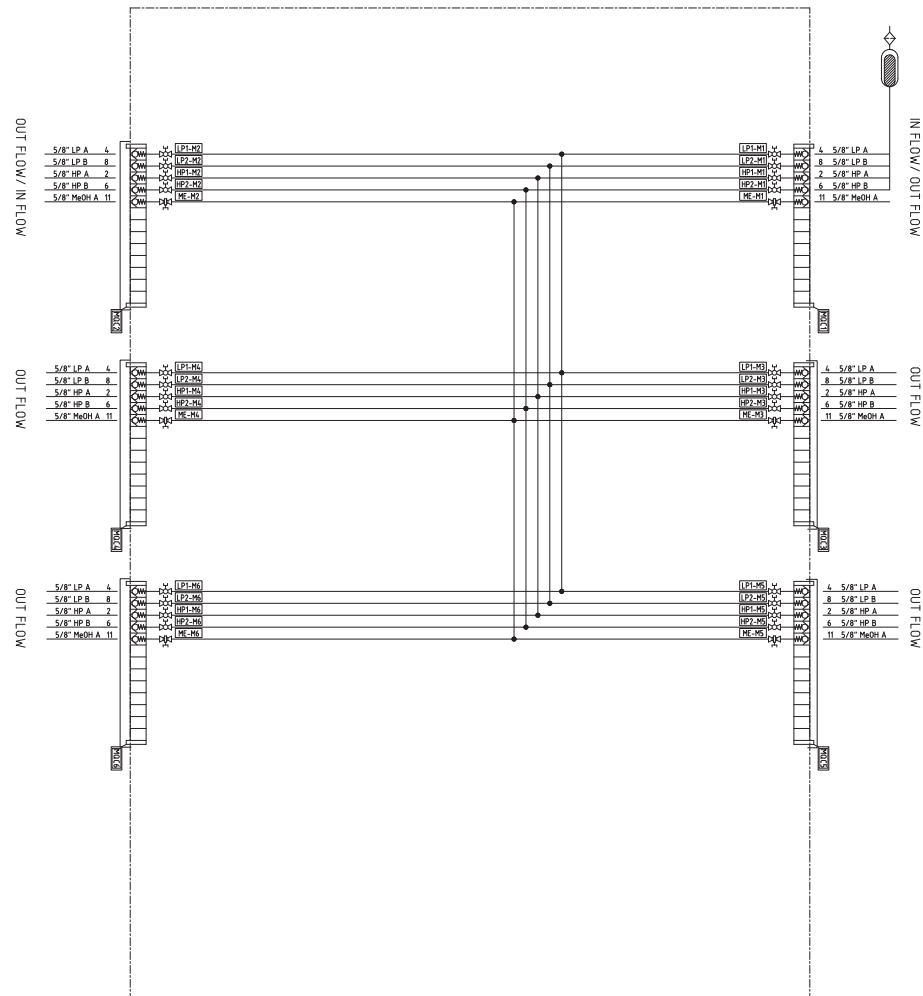
Subsea Distribution Unit (SDU)



General Arrangement drawing: NG-EGN-31-FMEC-000600
Technical Data Information: NG-EGN-31-FMEC-000596

NG-EGN-31-FMEC-000600
EGINA 25

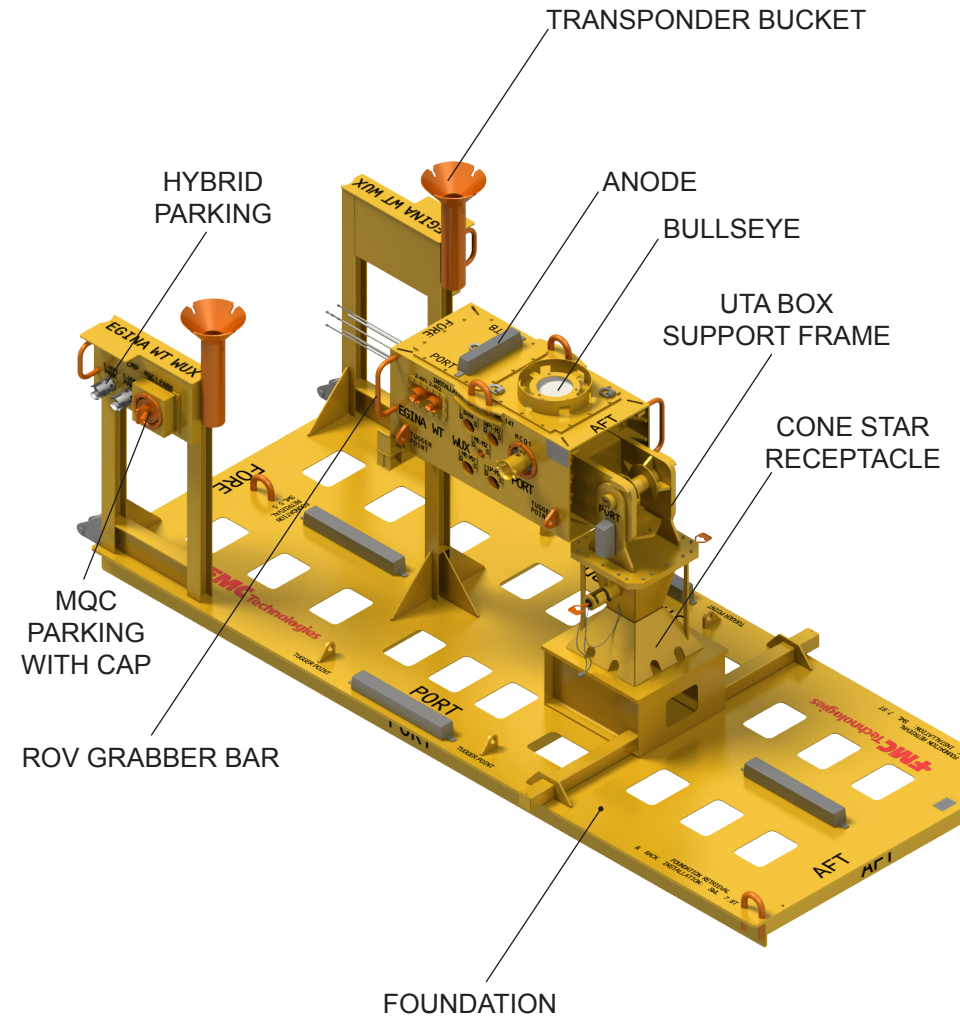
Subsea Distribution Unit (SDU) Schematic



NG-EGN-31-FMEC-000599

EGINA 26

Umbilical Termination Assembly (UTA) Schematic



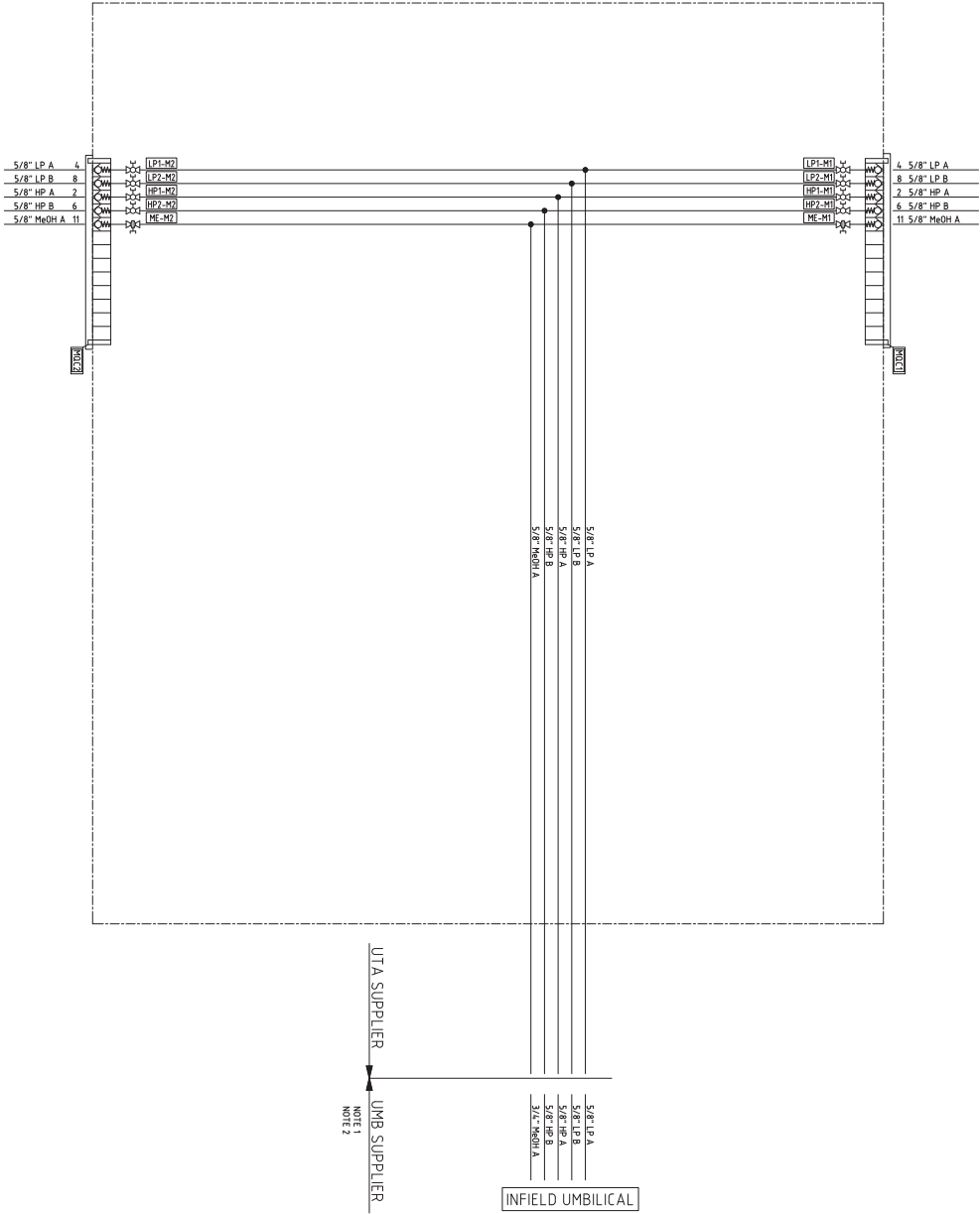
General Arrangement drawing: NG-EGN-31-FMEC-000670

Technical Data Information: NG-EGN-31-FMEC-000531

NG-EGN-31-FMEC-000670

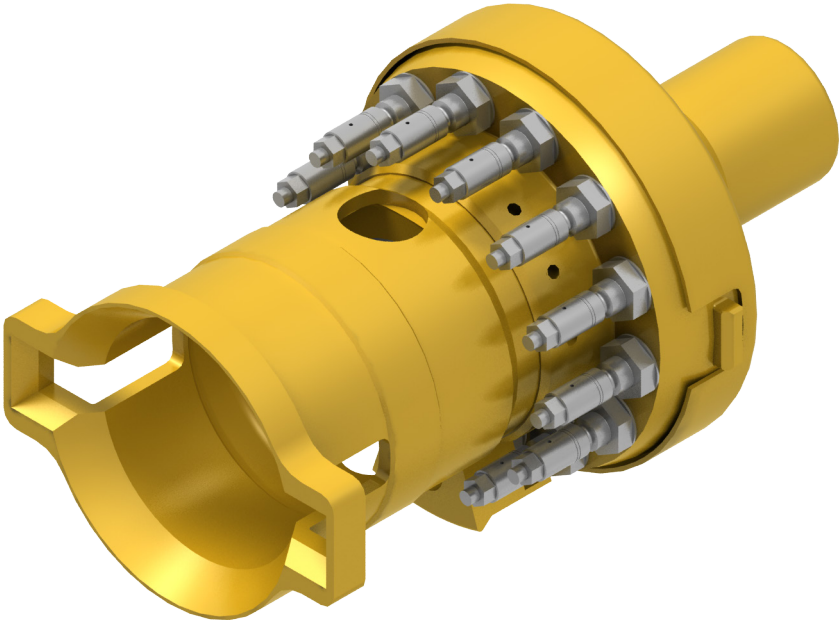
EGINA 27

Umbilical Termination Assembly (UTA) Schematic

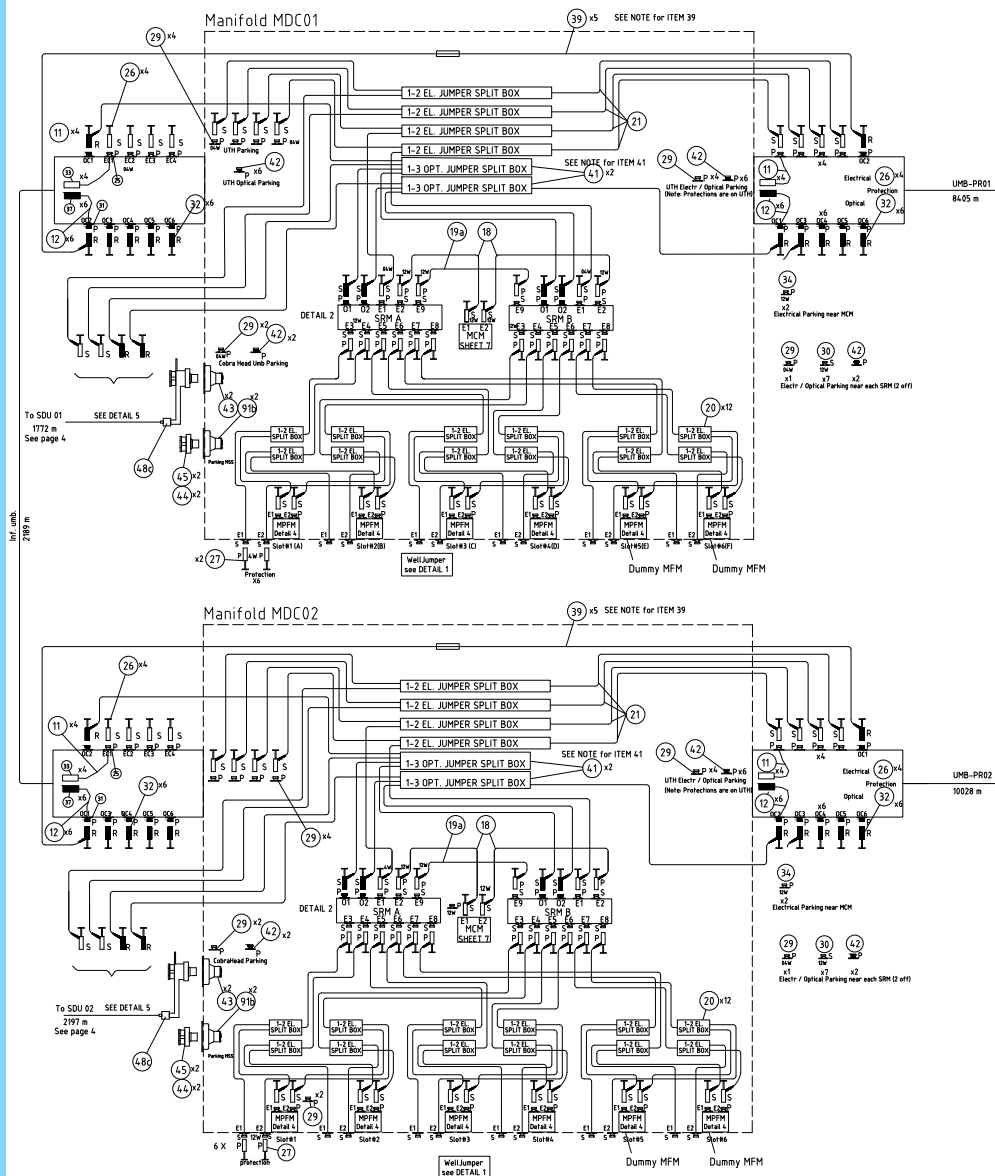


NG-EGN-31-FMEC-000669

MQC-13 MKII Outboard Plate



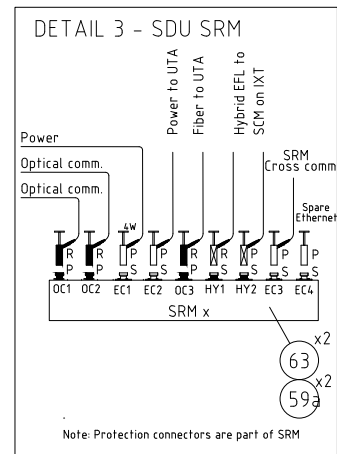
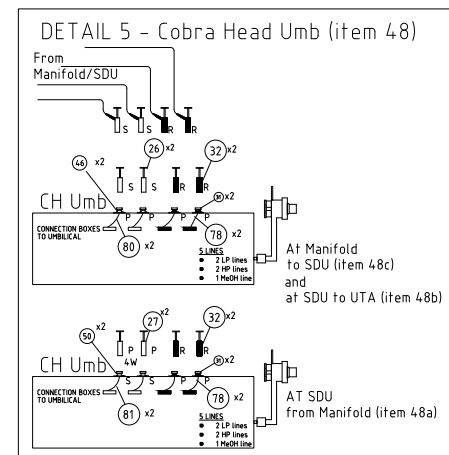
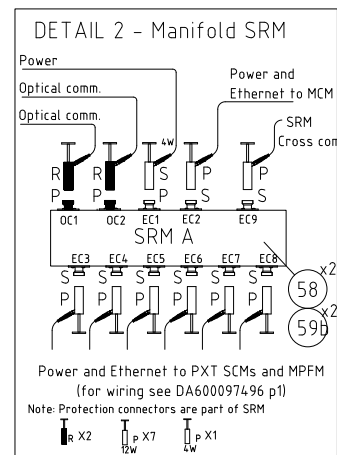
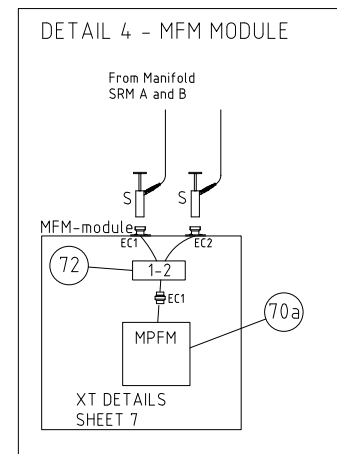
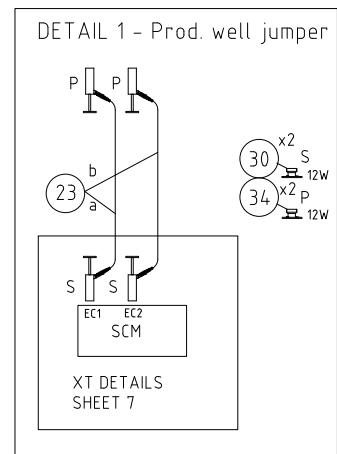
Manifold Module, Electrical Distribution schematic



NG-EGN-33-FMEC-000690

EGINA 30

Subsea Router Module (SRM) MKIII electrical schematic



NOTE for ITEM 39:
MDC01: use item 39b, 39c, 39d, 39e, 39f
MDC02: use item 39a, 39c, 39d, 39e, 39f
MDC03: use item 39b, 39c, 39d, 39e, 39f
MDC04: use item 39a, 39c, 39d, 39e, 39f
MDC05: use item 39a, 39b, 39c, 39d, 39e, 39f
MDC06: use item 39a, 39b, 39d, 39e, 39f

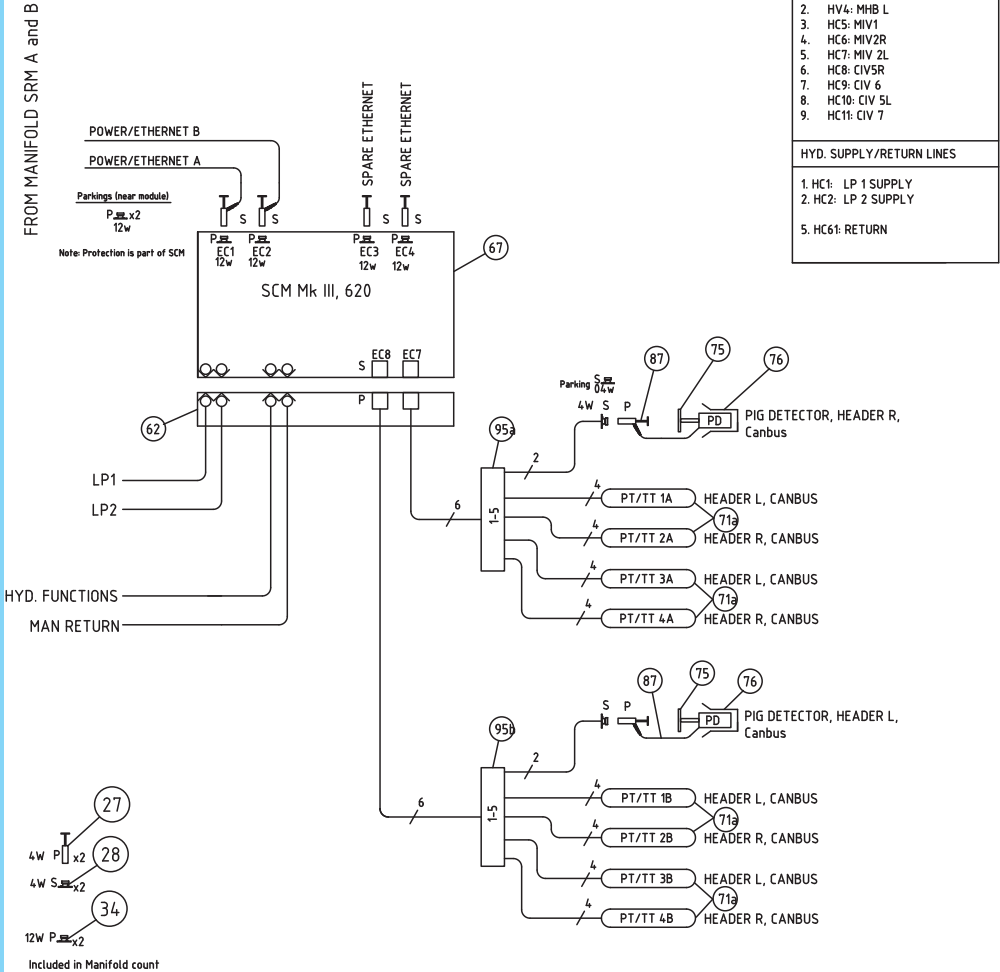
NOTE for ITEM 41:
MDC01: use item 41e, 41h
MDC02: use item 41b, 41a
MDC03: use item 41e, 41h
MDC04: use item 41b, 41a
MDC05: use item 41d, 41g
MDC06: use item 41c, 41f

NG-EGN-33-FMEC-000690

EGINA 31

Manifold Control Module (MCM) MKIII electrical and hydraulic schematic

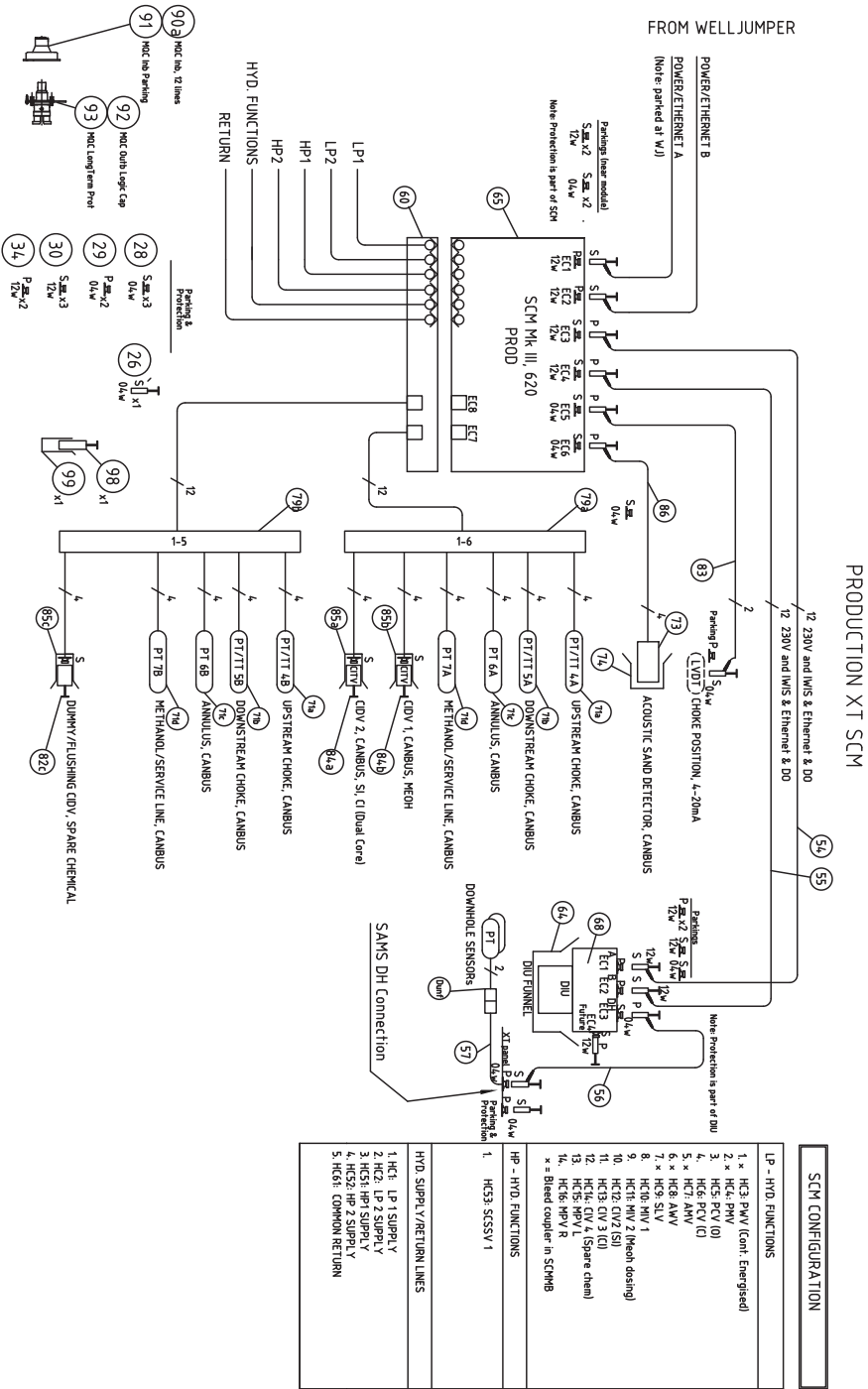
MANIFOLD SCM



NG-EGN-33-FMEC-000690

EGINA 32

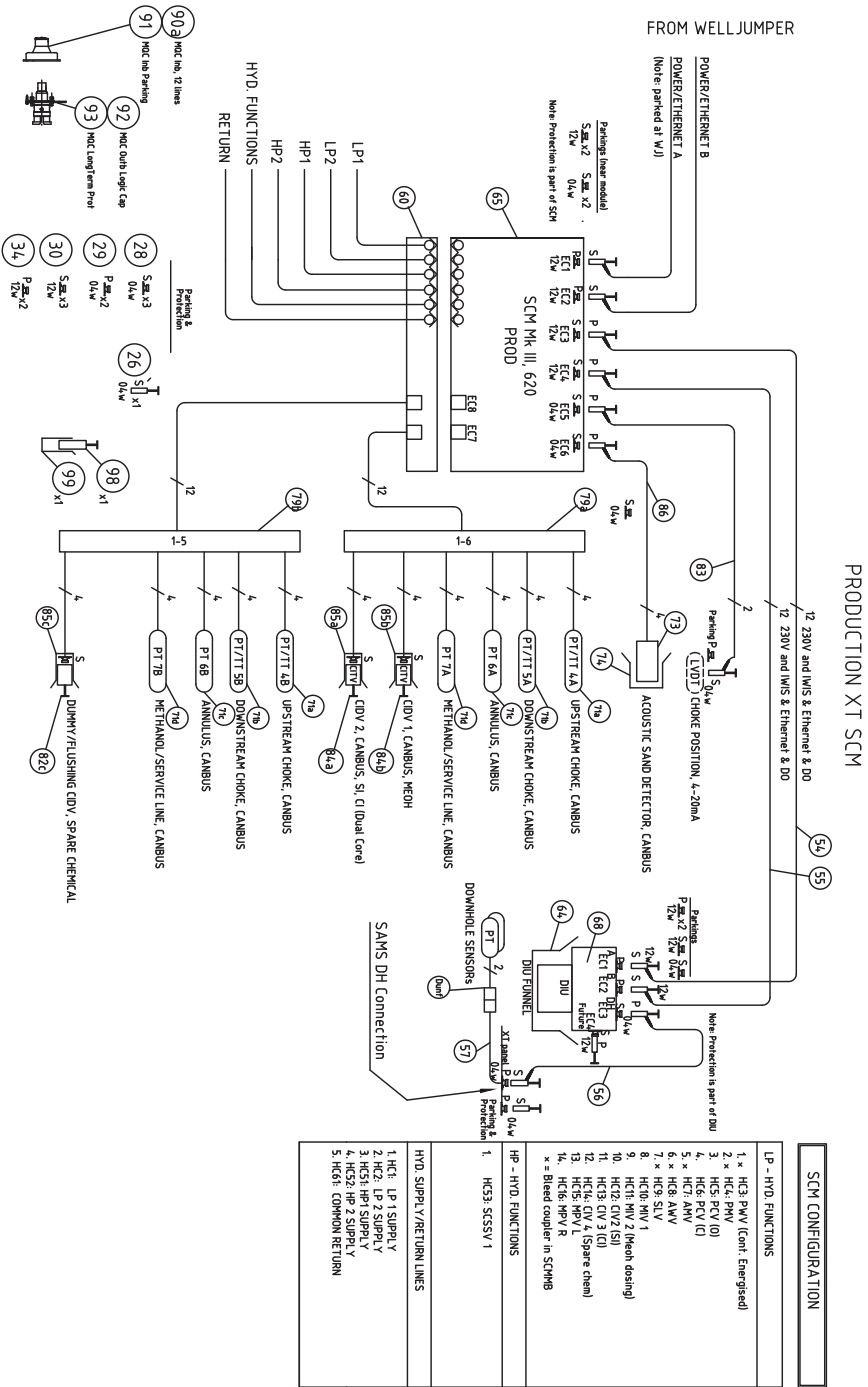
Production Control Module (SCM) MKIII electrical and hydraulic schematic



NG-EGN-33-FMEC-000690

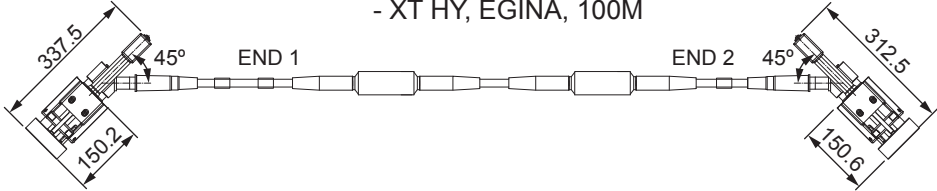
EGINA 33

Injection Control Module (SCM) MKIII electrical and hydraulic schematic



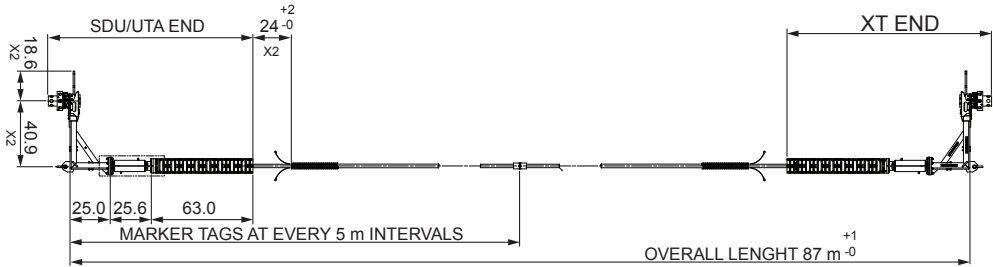
Flying Leads

HYBRID JUMPER, 1 X 1 LEGS,
F/ DISTRIBUTION, SDU, SRM/UTA HY
- XT HY, EGINA, 100M



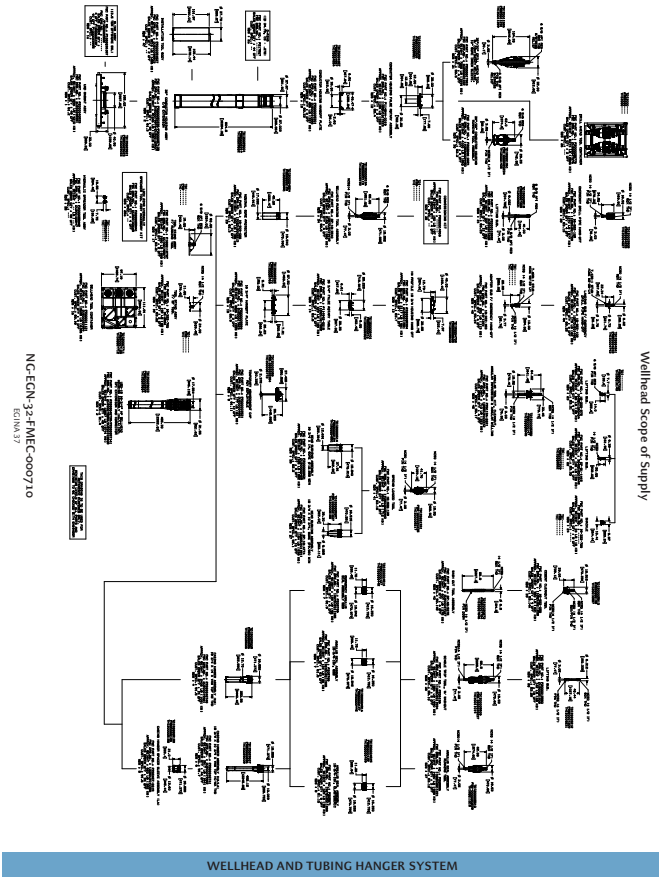
FMC P/N		END 1	BETWEEN CANISTER	END 2
P6000130876	MARKING	SRM B HY2		XT 2 HY2
	LENGTH	30 M	40 M	30 M
P6000130875	MARKING	SRM B HY1		XT 1 HY2
	LENGTH	30 M	40 M	30M
P6000130878	MARKING	SRM A HY1		XT 1 HY1
	LENGTH	30 M	40 M	30 M
P6000130877	MARKING	SRM A HY2		XT 2 HY1
	LENGTH	30 M	40 M	30 M
P6000130879	MARKING	UTA HY1		XT HY1
	LENGTH	30 M	40 M	30 M
P6000130880	MARKING	UTA HY2		XT HY2
	LENGTH	30 M	40 M	30 M

STEEL FLYING LEAD,
MQC-13 MKII
BOTH ENDS, 5-LINES, 87 M LONG

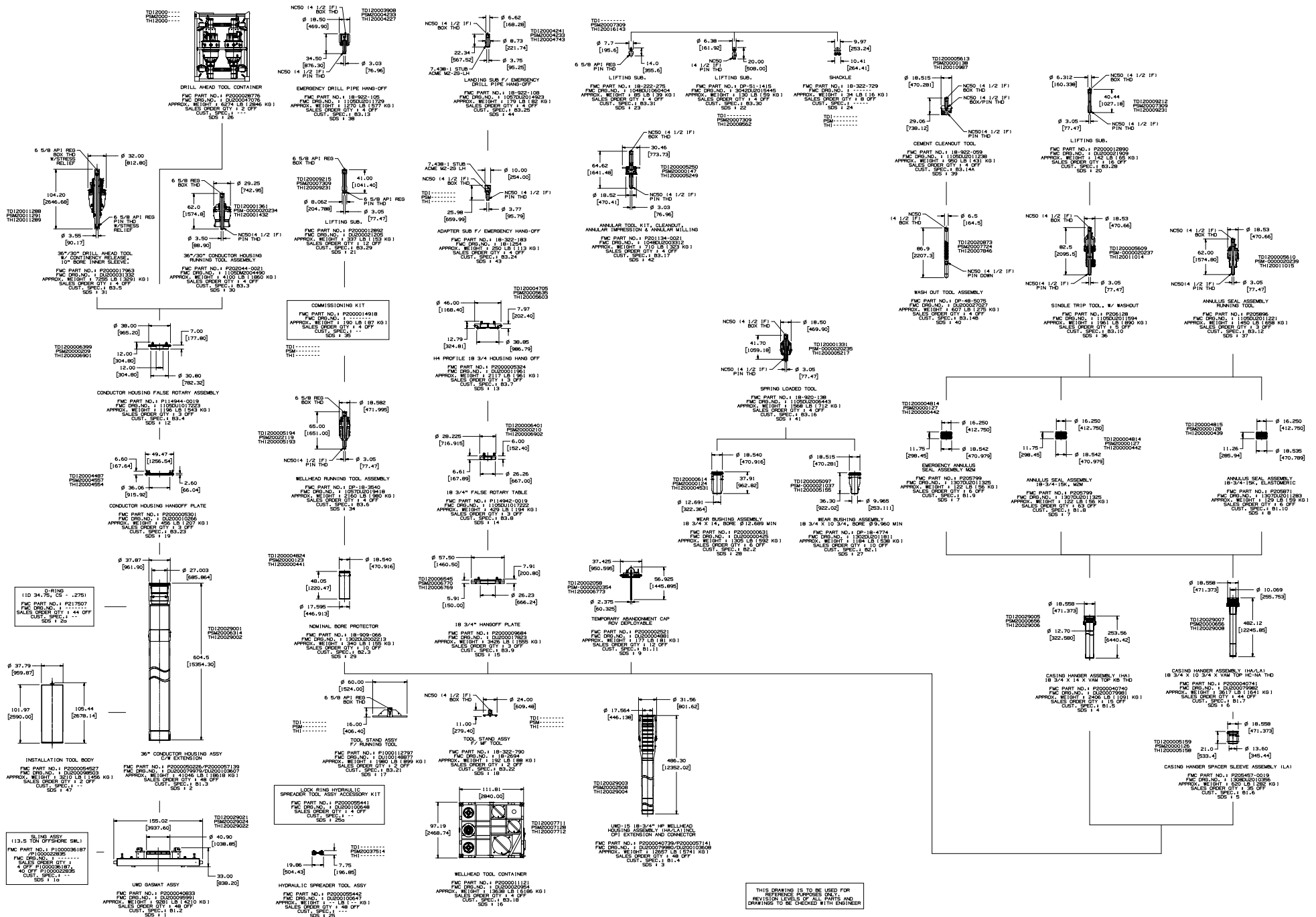


Wellhead Scope of Supply

FOLD OUT
UTBRETT



Wellhead Scope of Supply

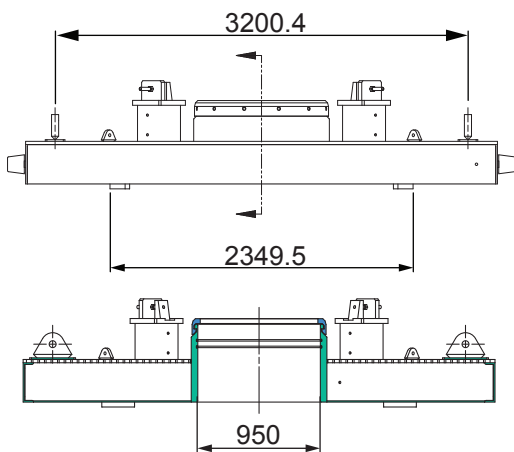
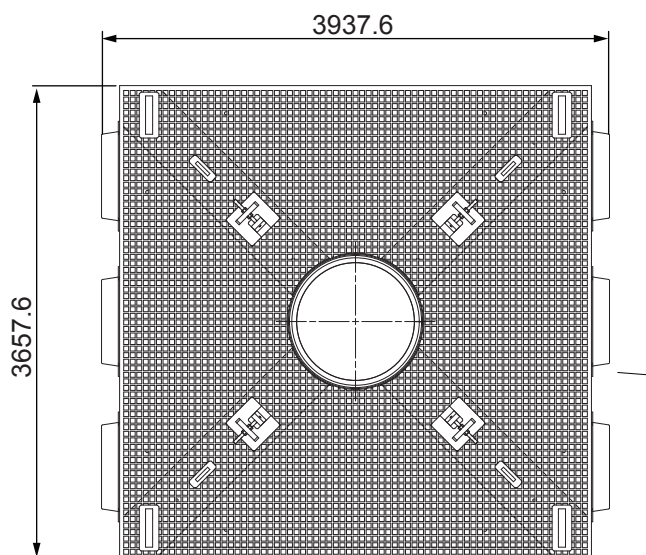
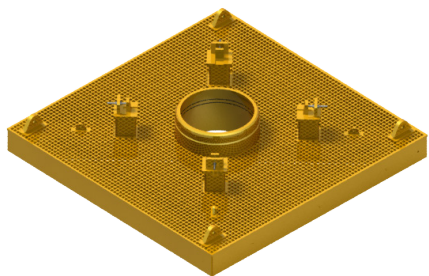


NG-EGN-32-FMEC-000710

EGINA 37

WELLHEAD AND TUBING HANGER SYSTEM

Gasmat

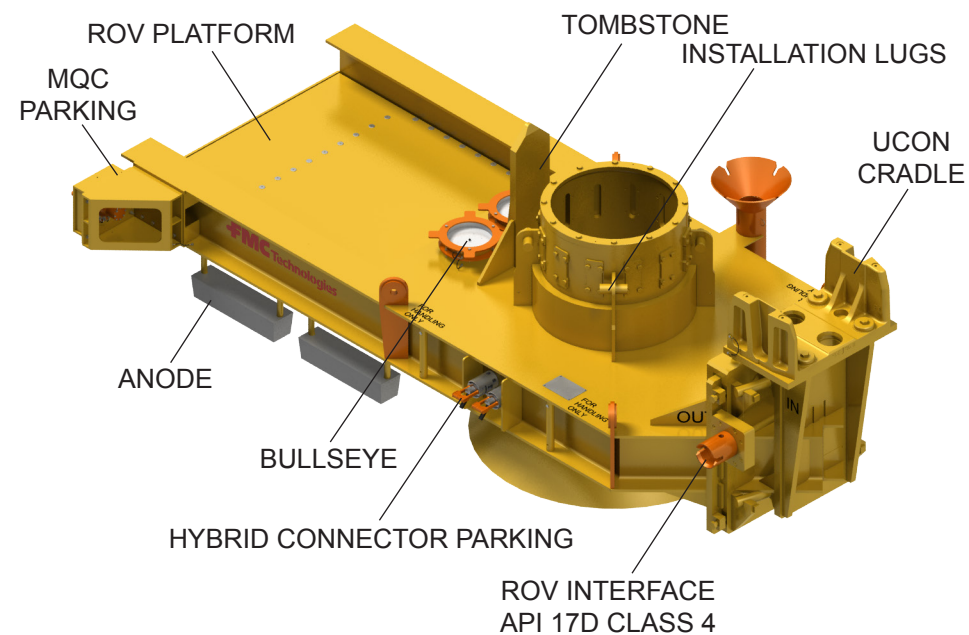


NG-EGN-32-FMEC-000768

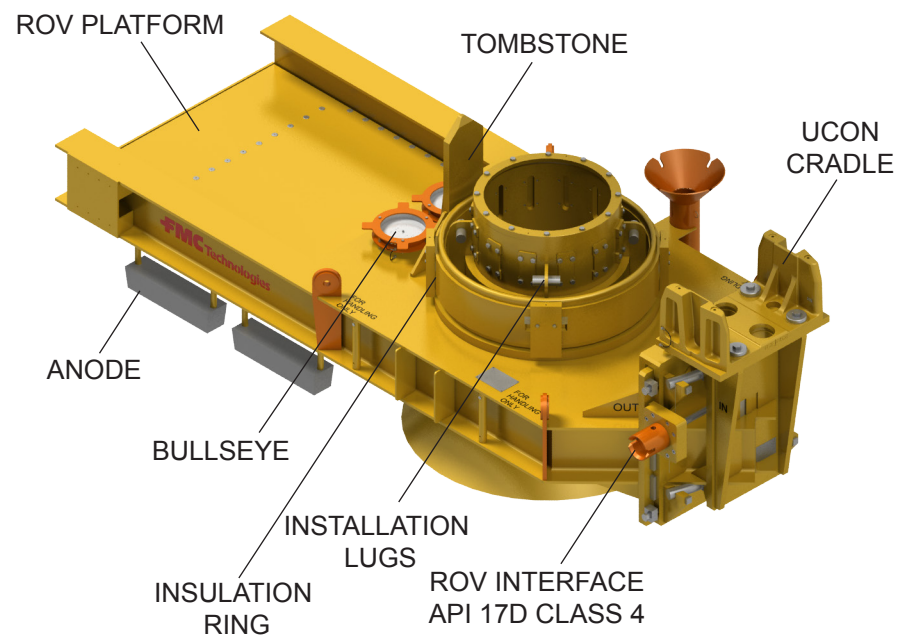
EGINA 38

Permanent Guide Base

PGB INJECTION

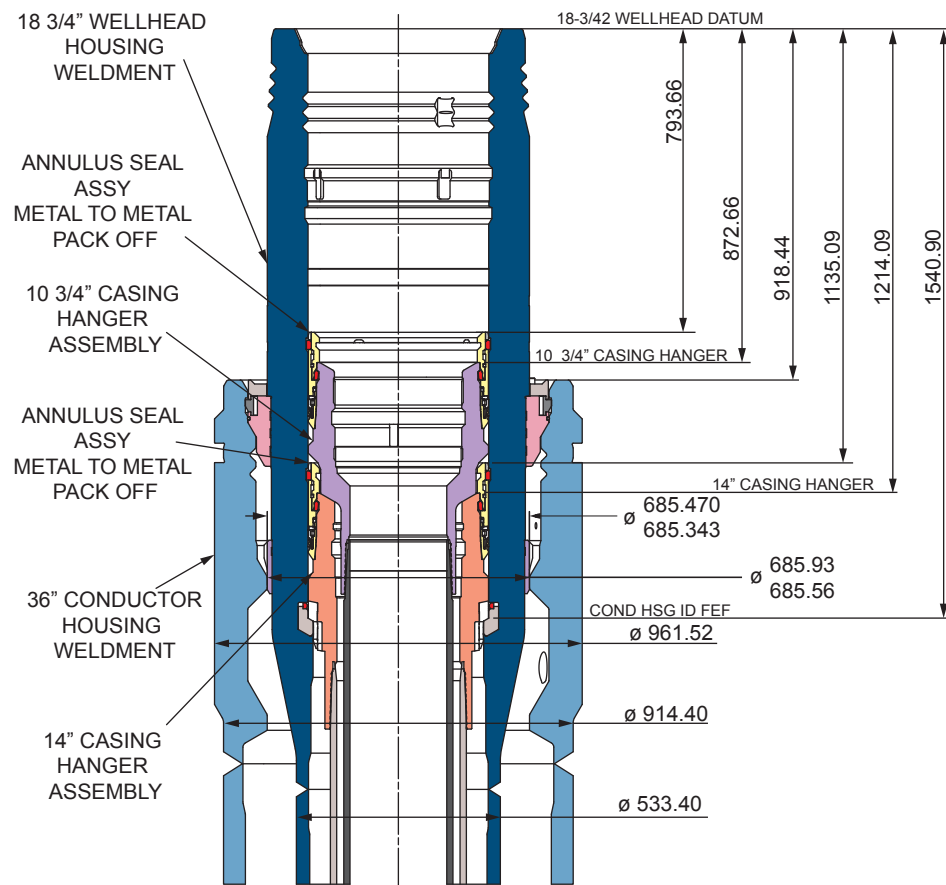


PGB PRODUCTION



EGINA 39

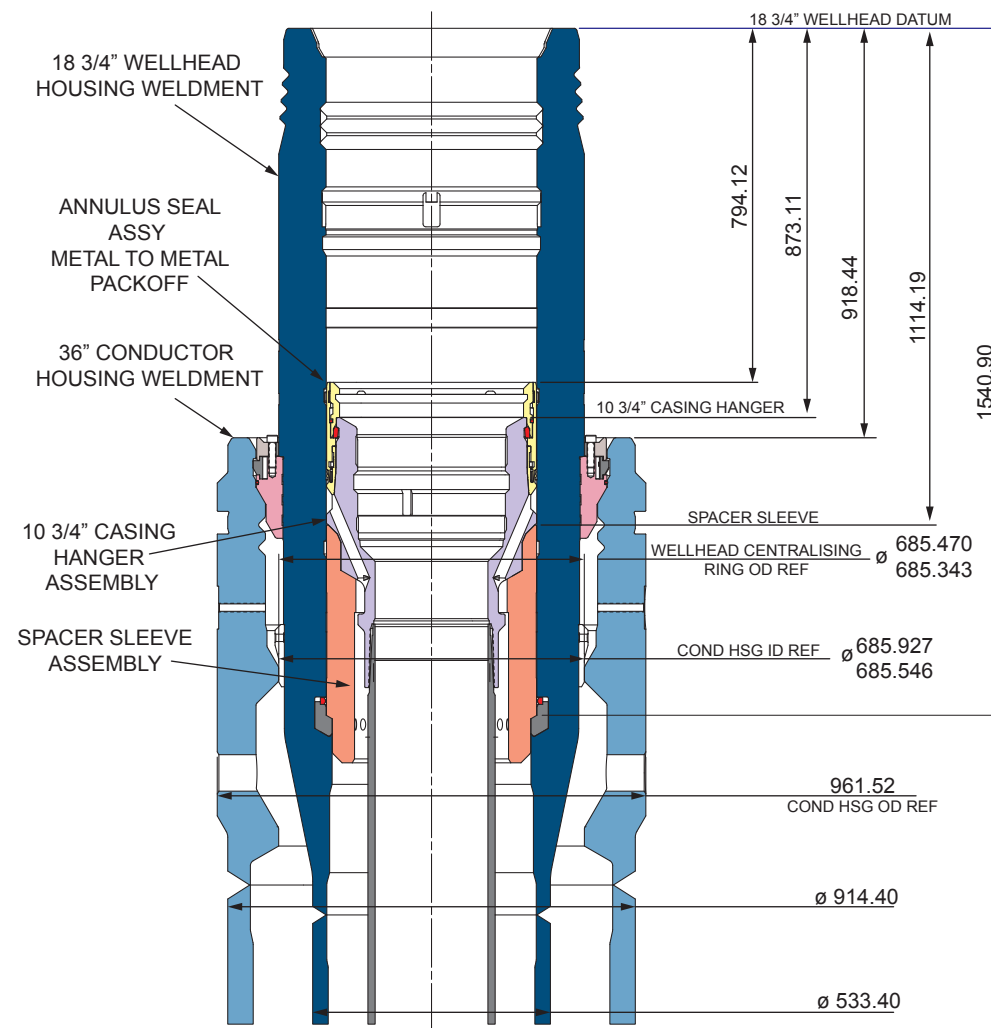
Wellhead stack-up drawing Heavy Architecture



NG-EGN-32-FMEC-002104

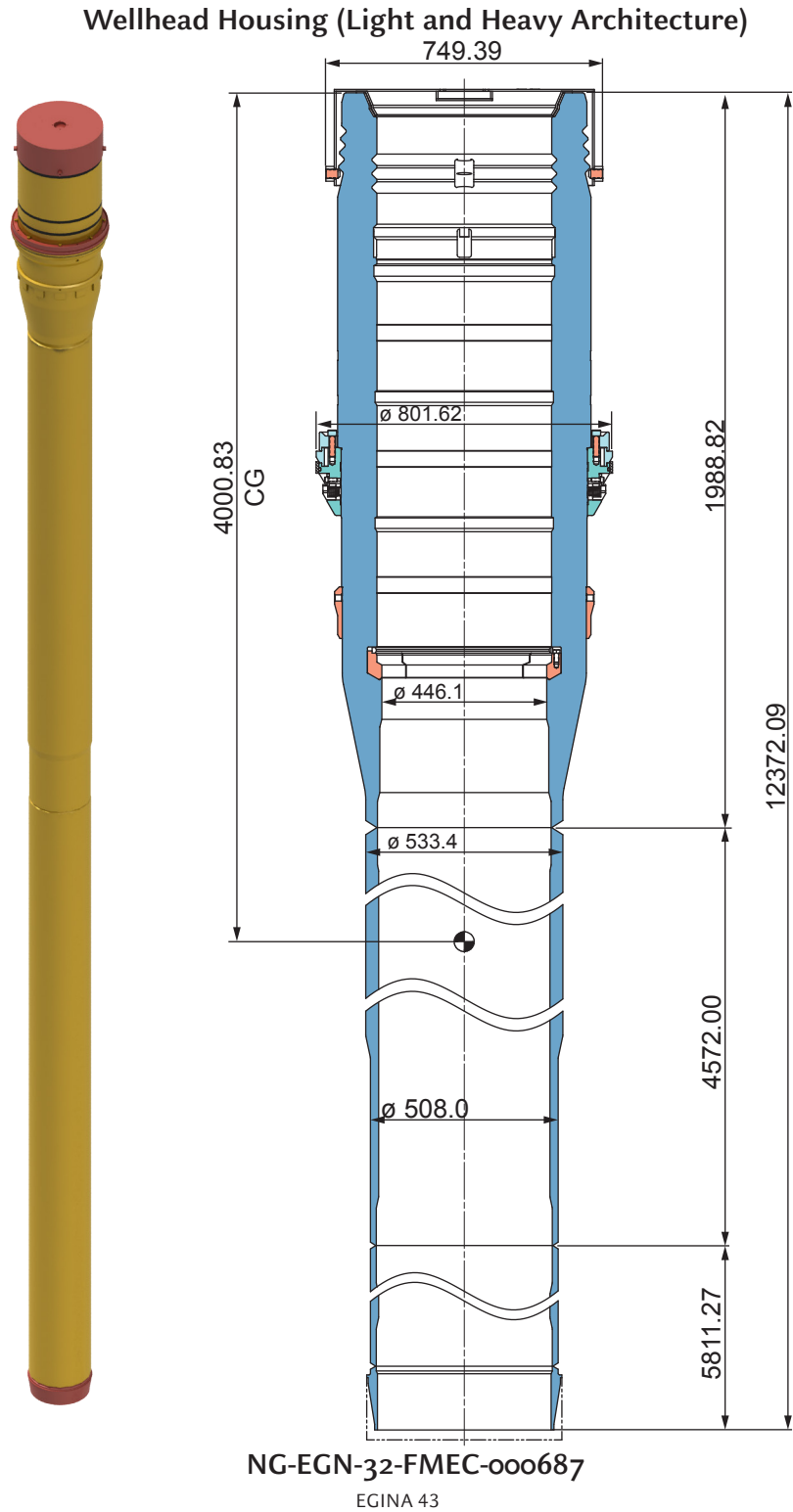
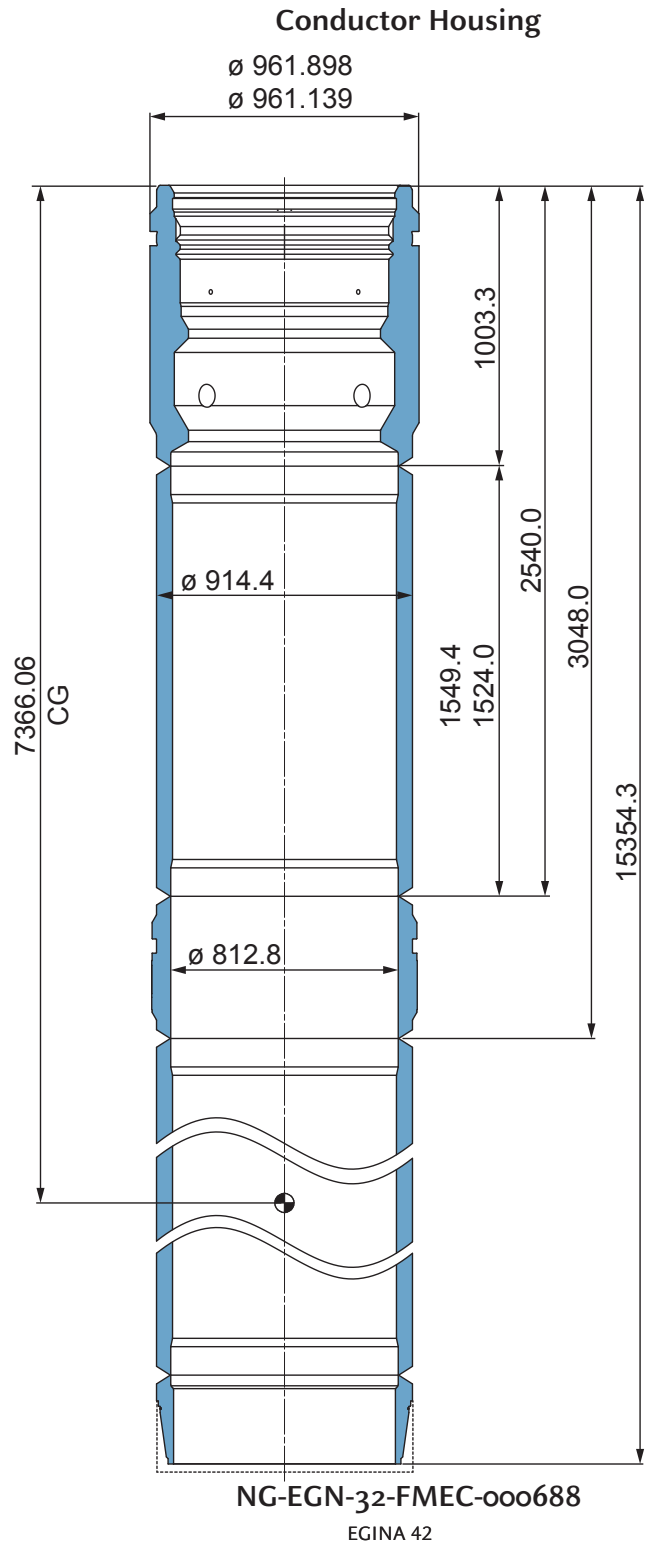
EGINA 40

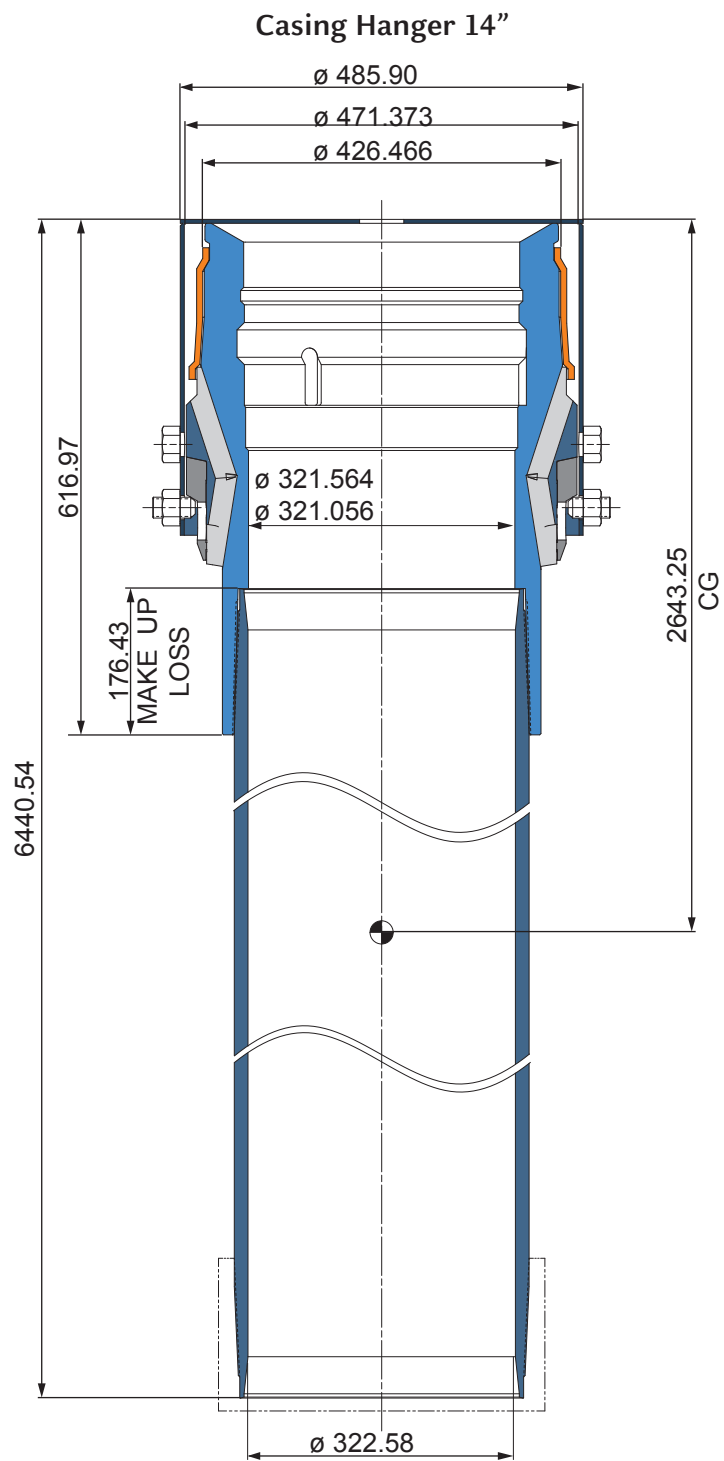
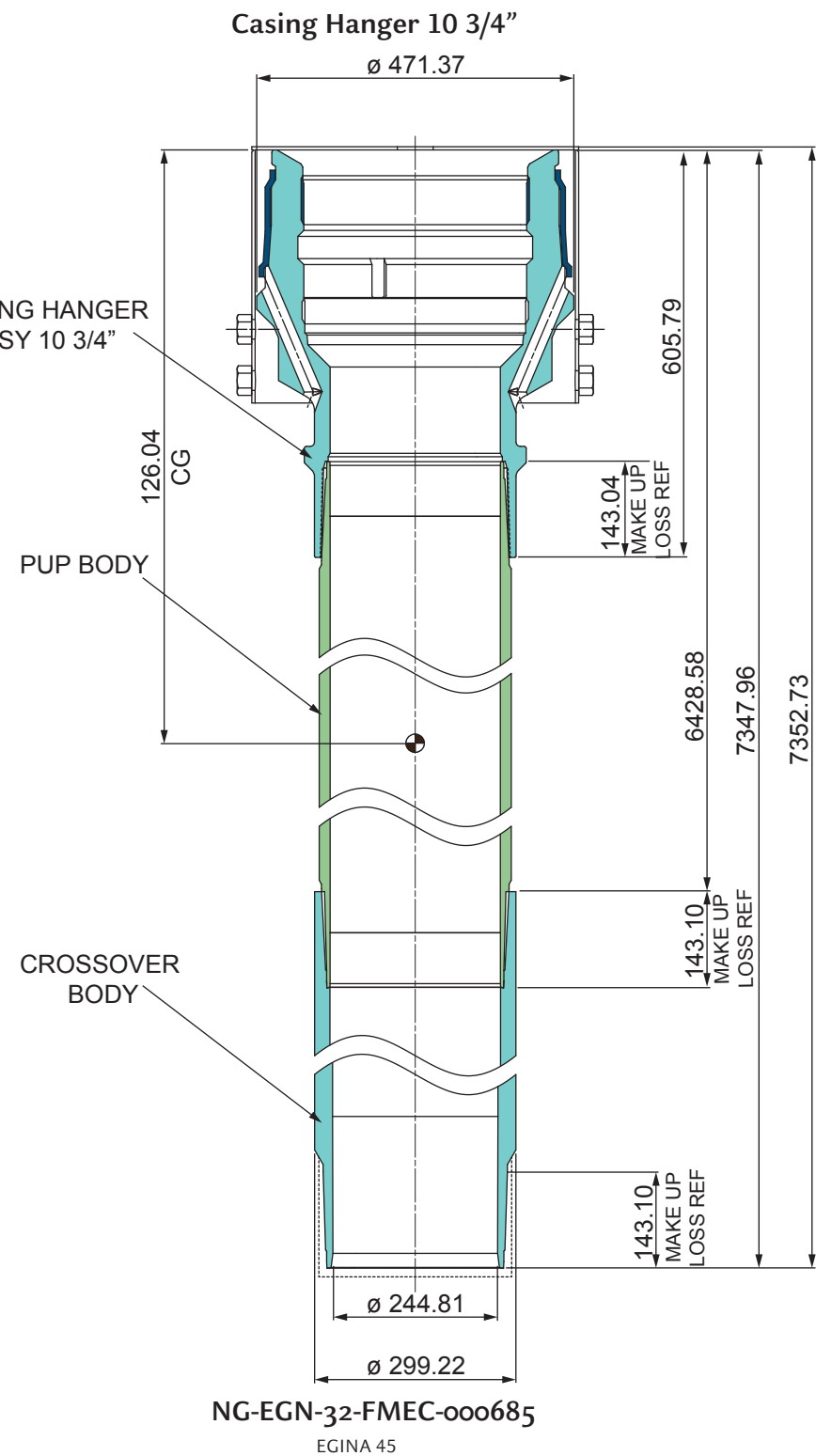
Wellhead stack-up drawing Light Architecture



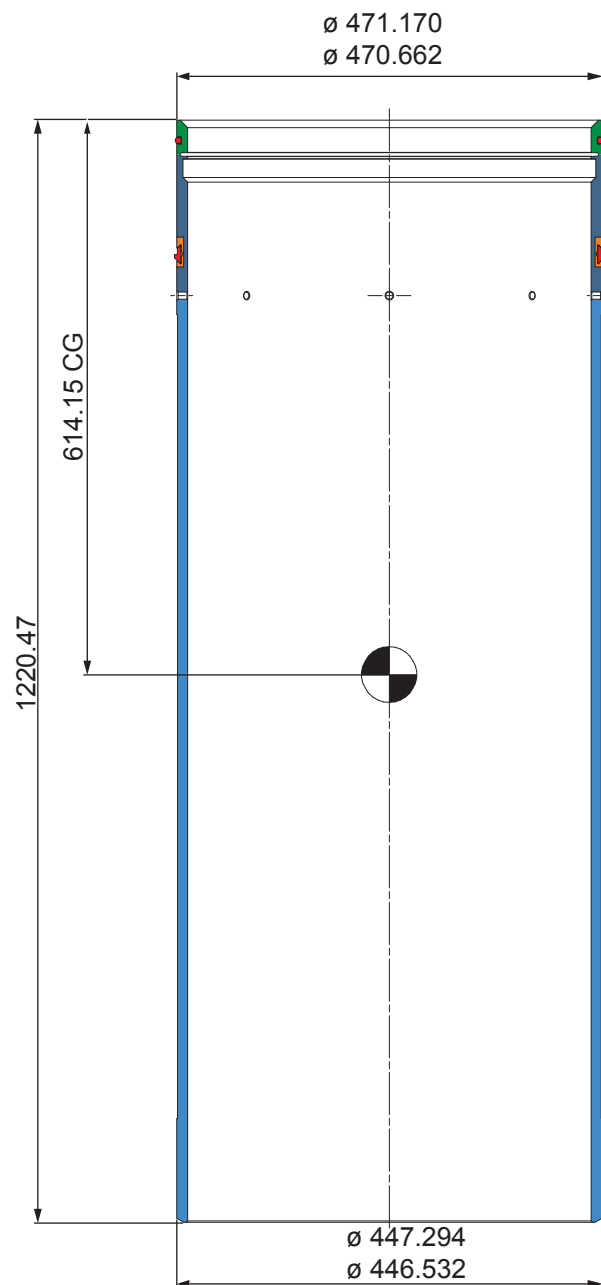
NG-EGN-32-FMEC-002104

EGINA 41



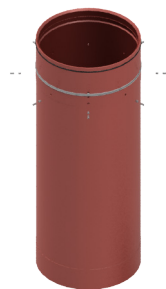
CASING HANGER
ASSY 10 3/4"

Wear Bushing
UWD-15, 18 3/4" Nominal Bore

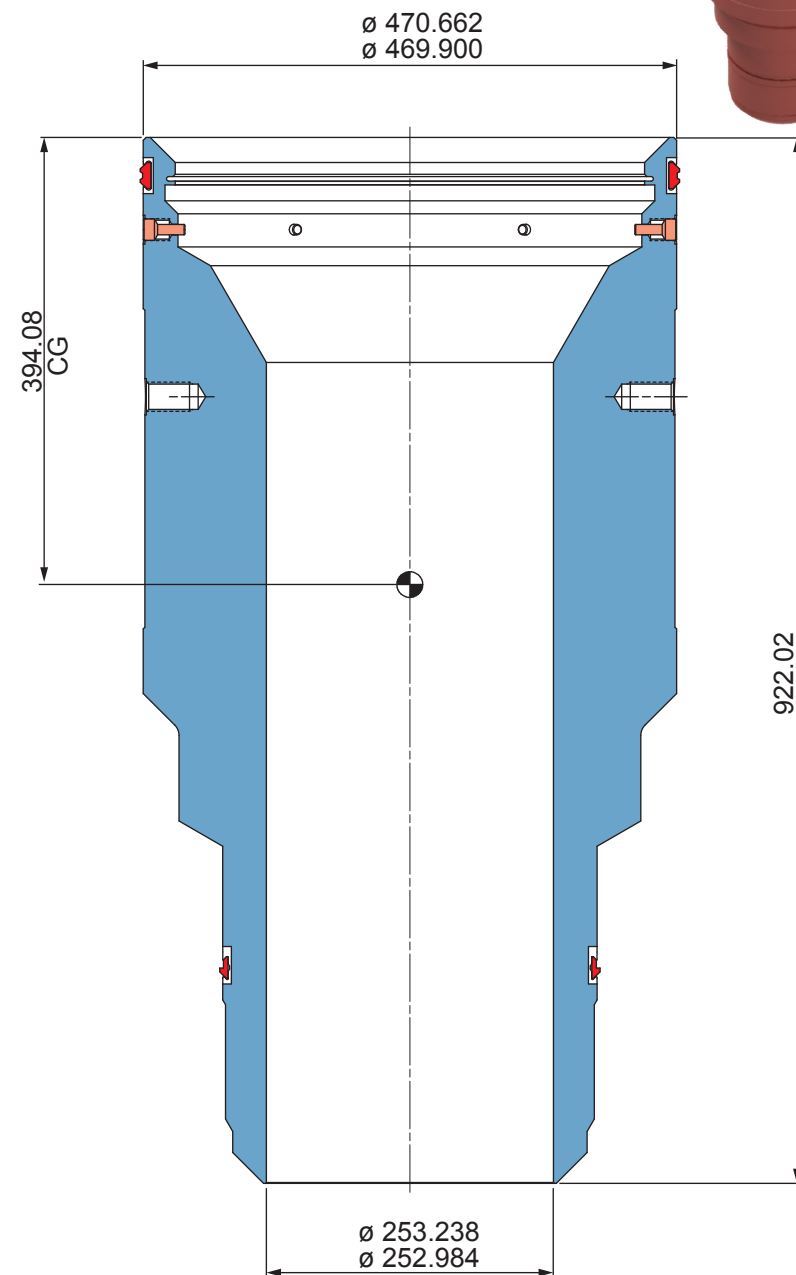


NG-EGN-32-FMEC-000991

EGINA 46



Wear Bushing
UWD-15, 18 3/4" x 10 3/4" W/9.960"

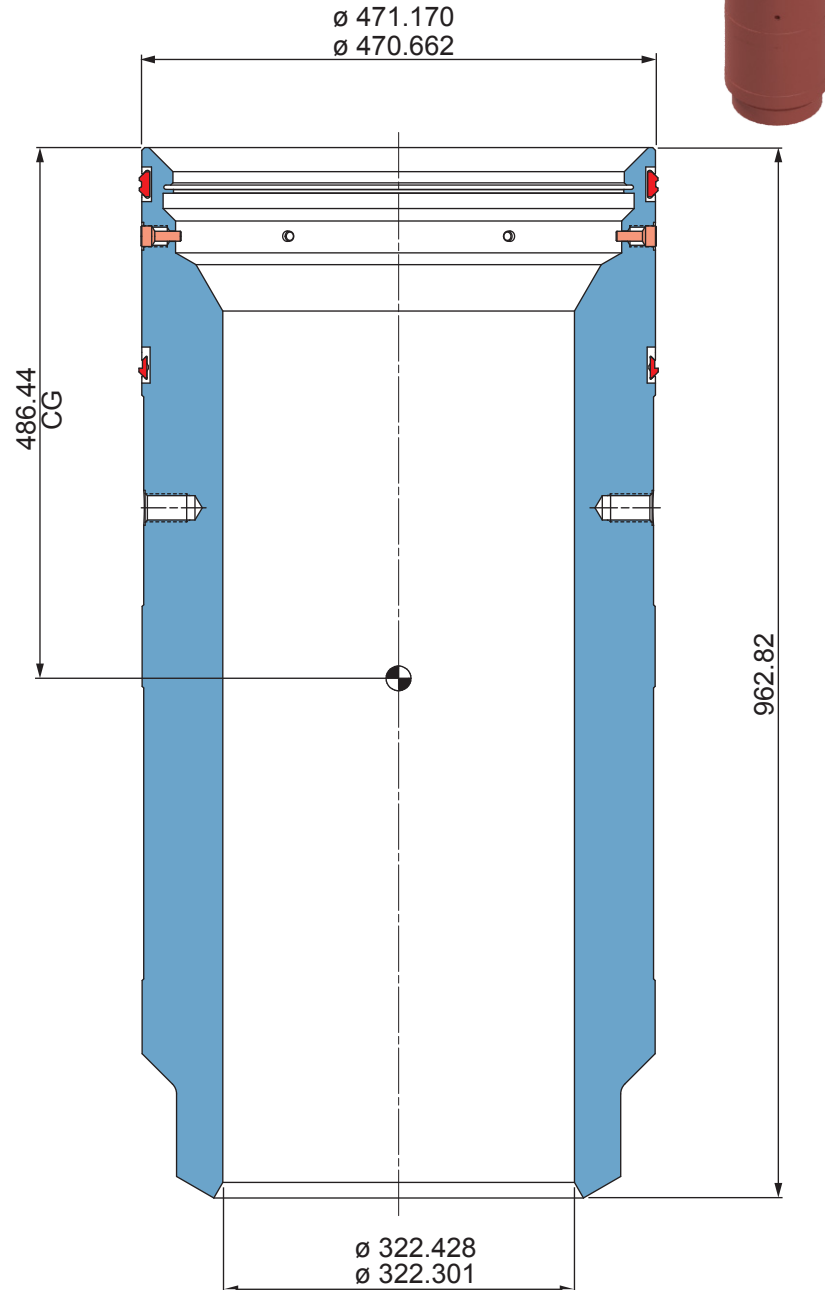


NG-EGN-32-FMEC-000982

EGINA 47



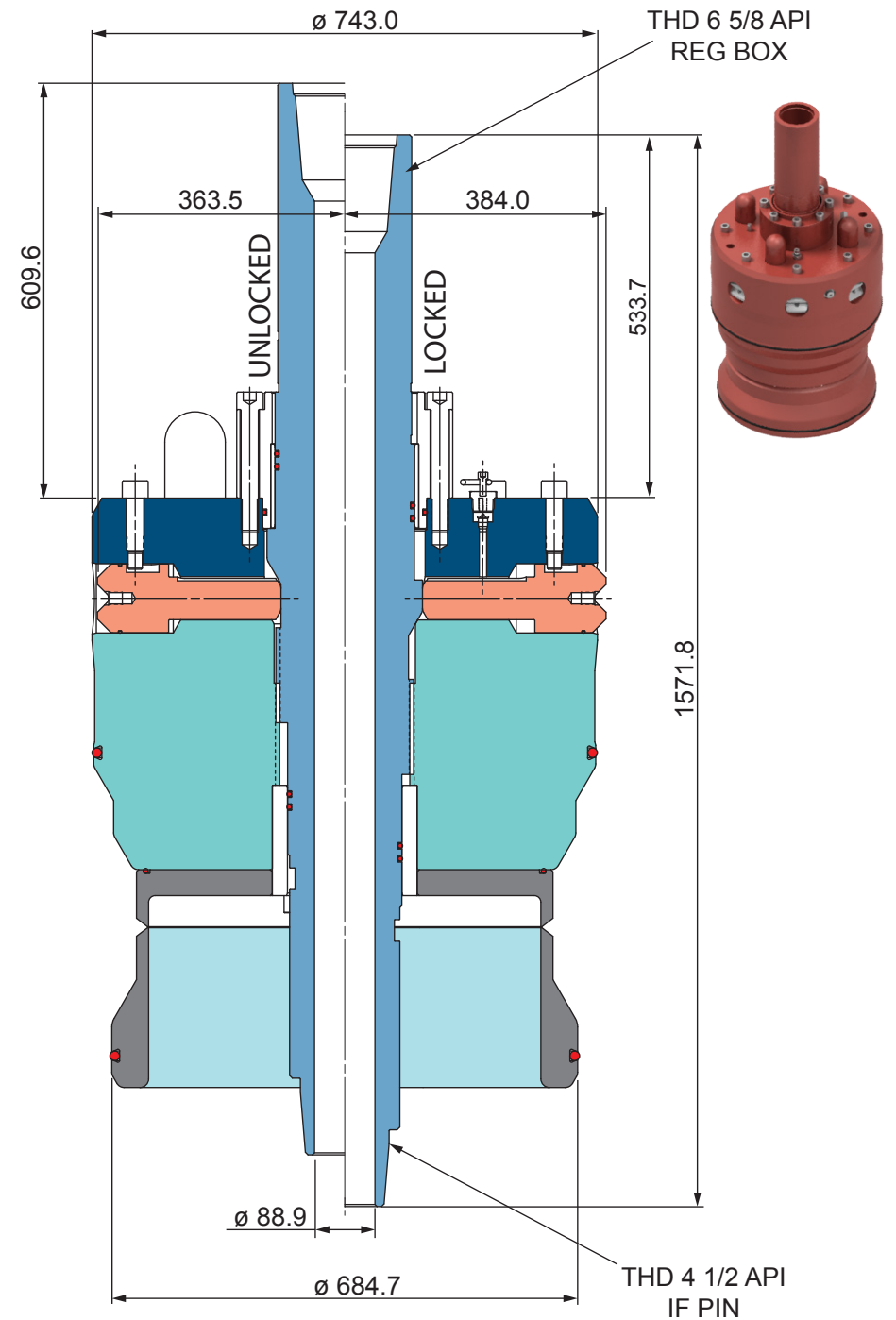
Wear Bushing
UWD-15, 18 3/4" W/ 12.689" min bore,
F/14 inch Casing Hanger



NG-EGN-32-FMEC-000987

EGINA 48

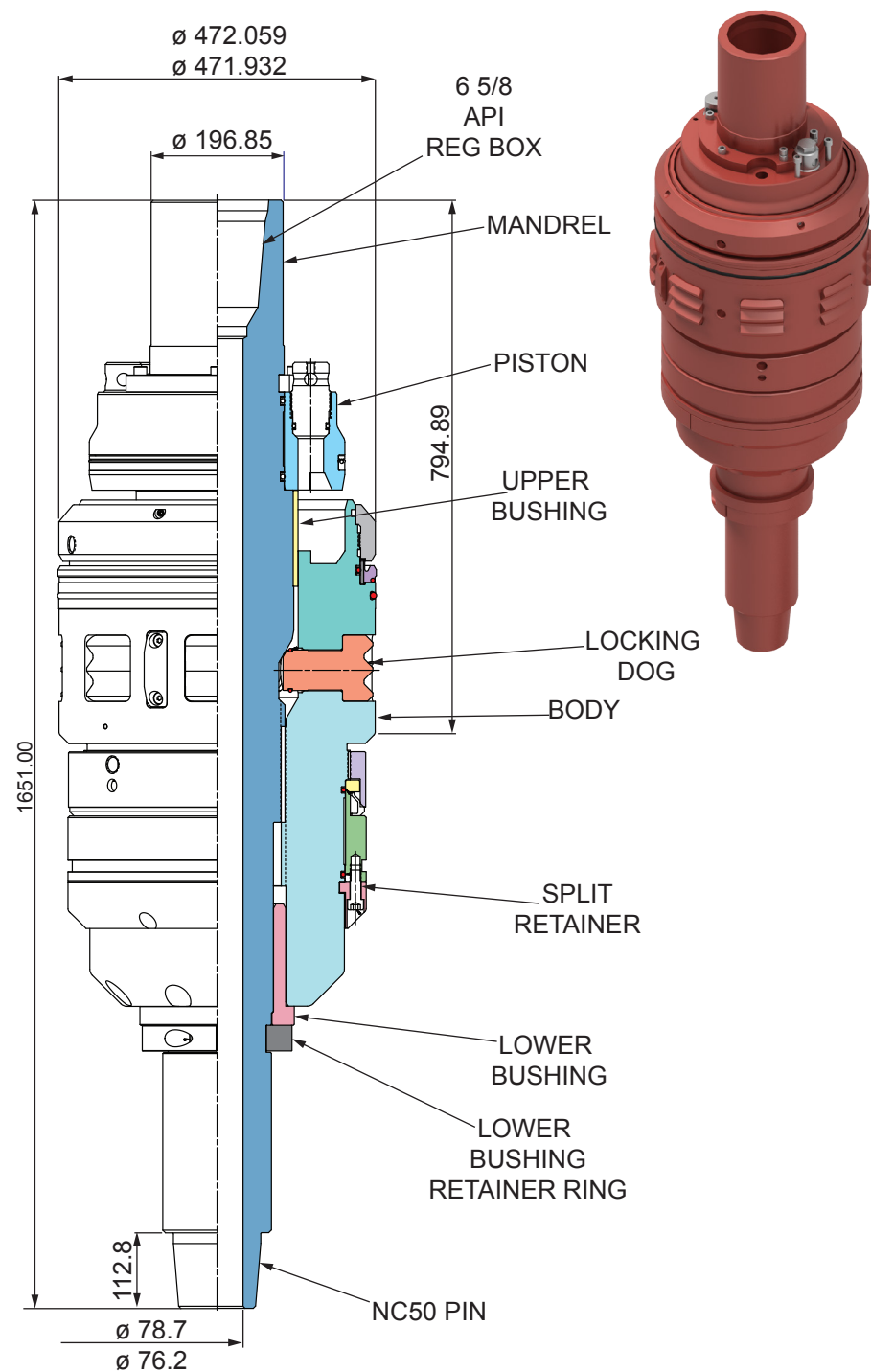
Conductor Housing Running Tool



NG-EGN-32-FMEC-004466

EGINA 49

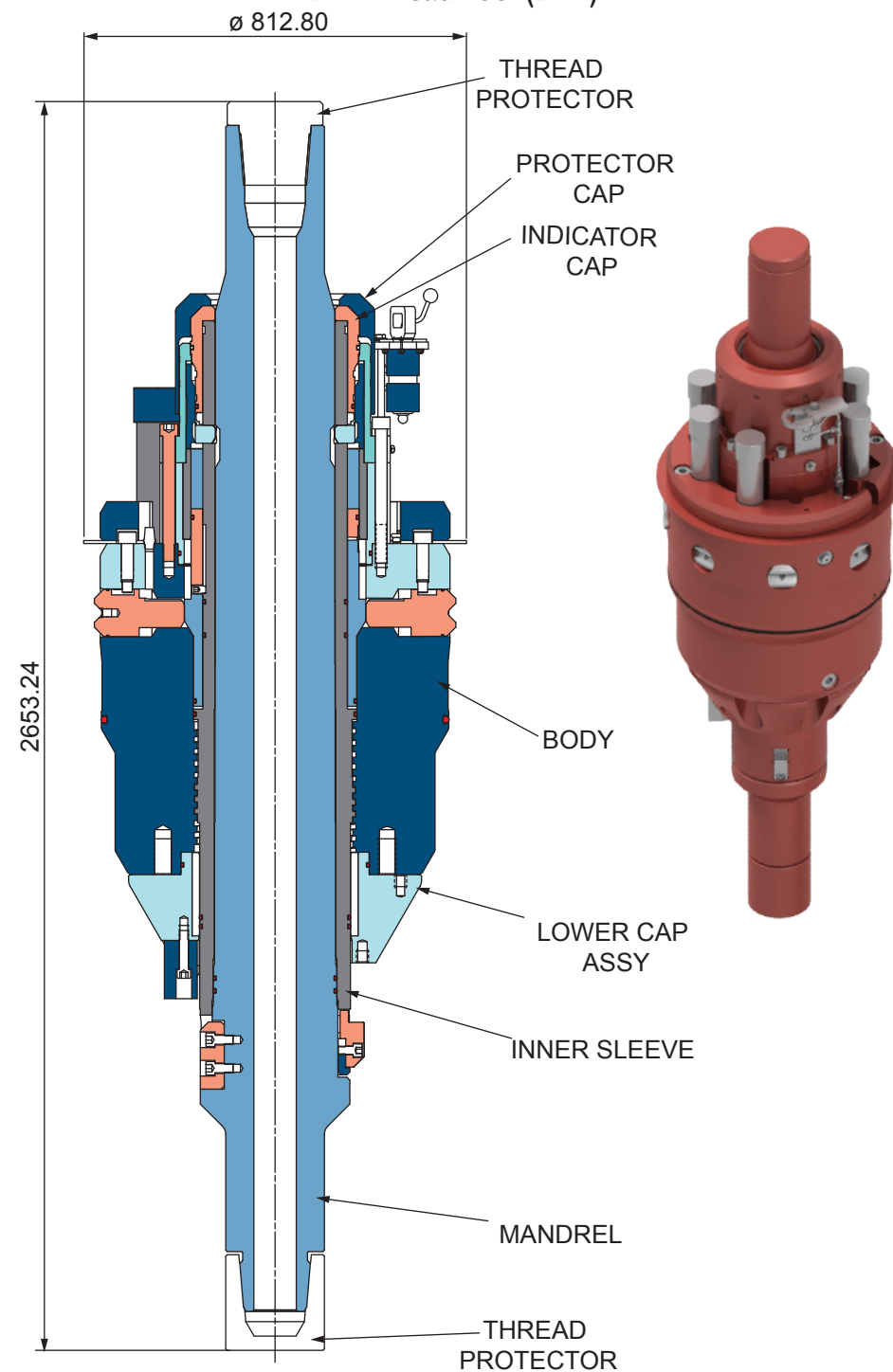
Wellhead Running Tool



NG-EGN-32-FMEC-001005

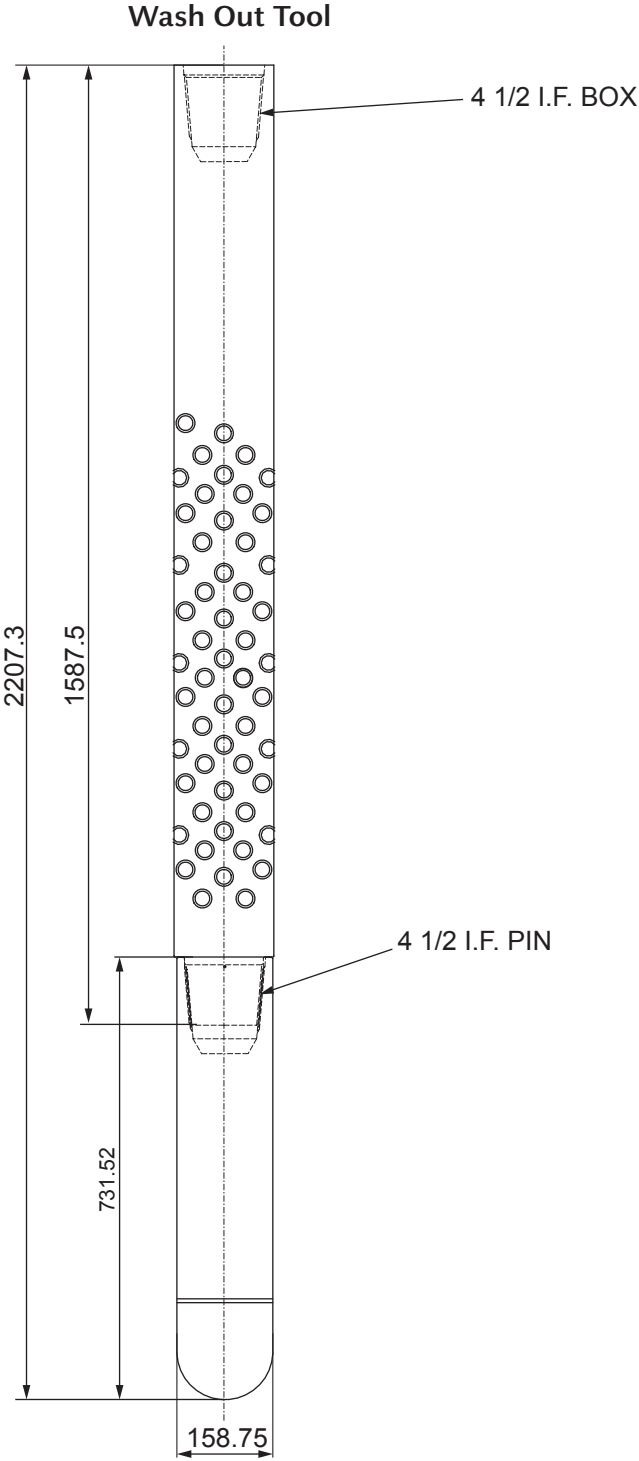
EGINA 50

Drill Ahead Tool (DAT)

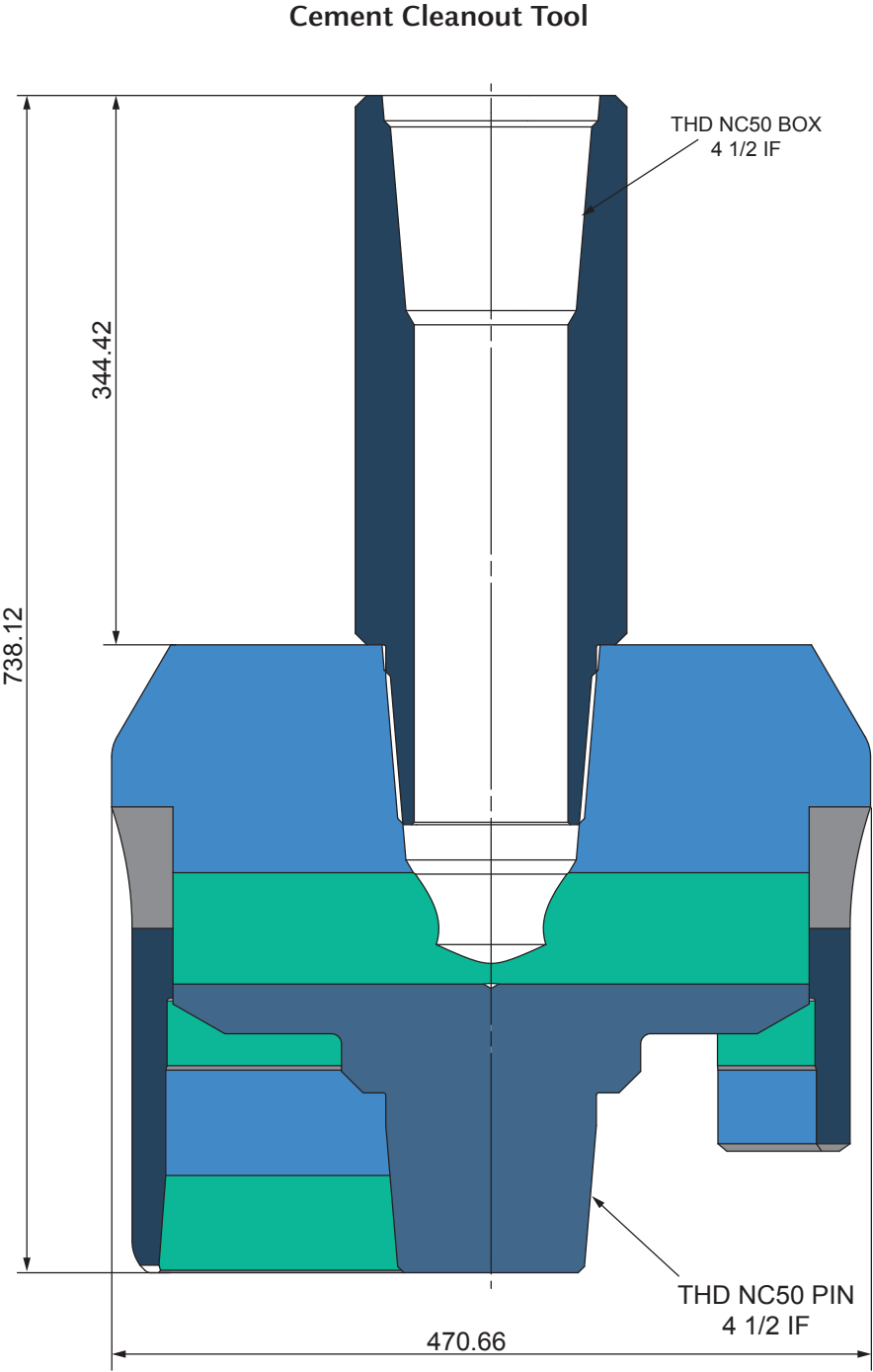


NG-EGN-32-FMEC-001001

EGINA 51



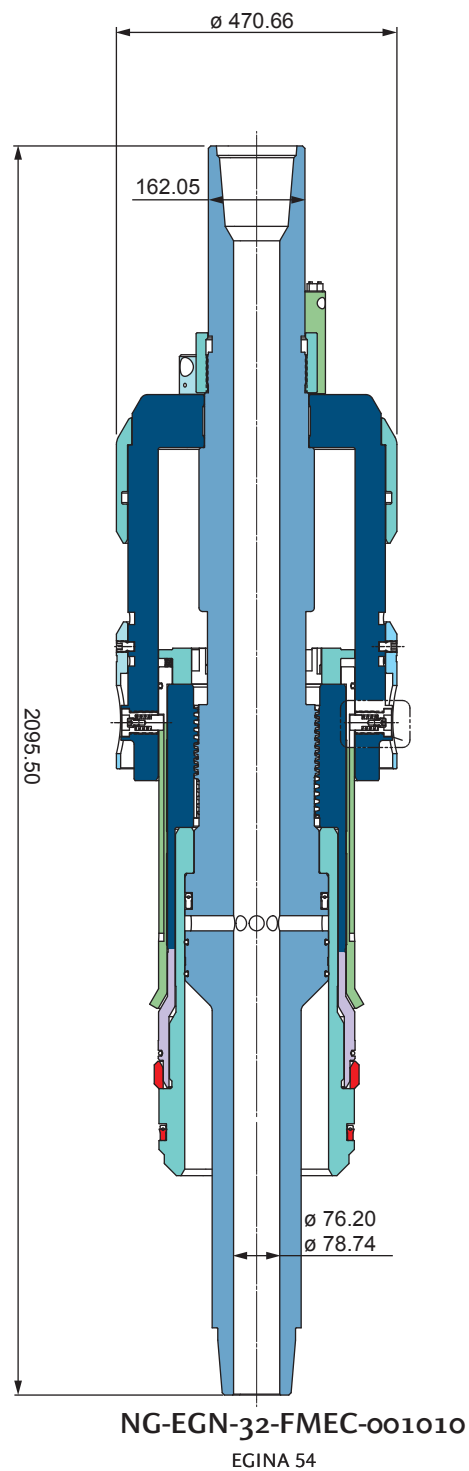
EGINA 52



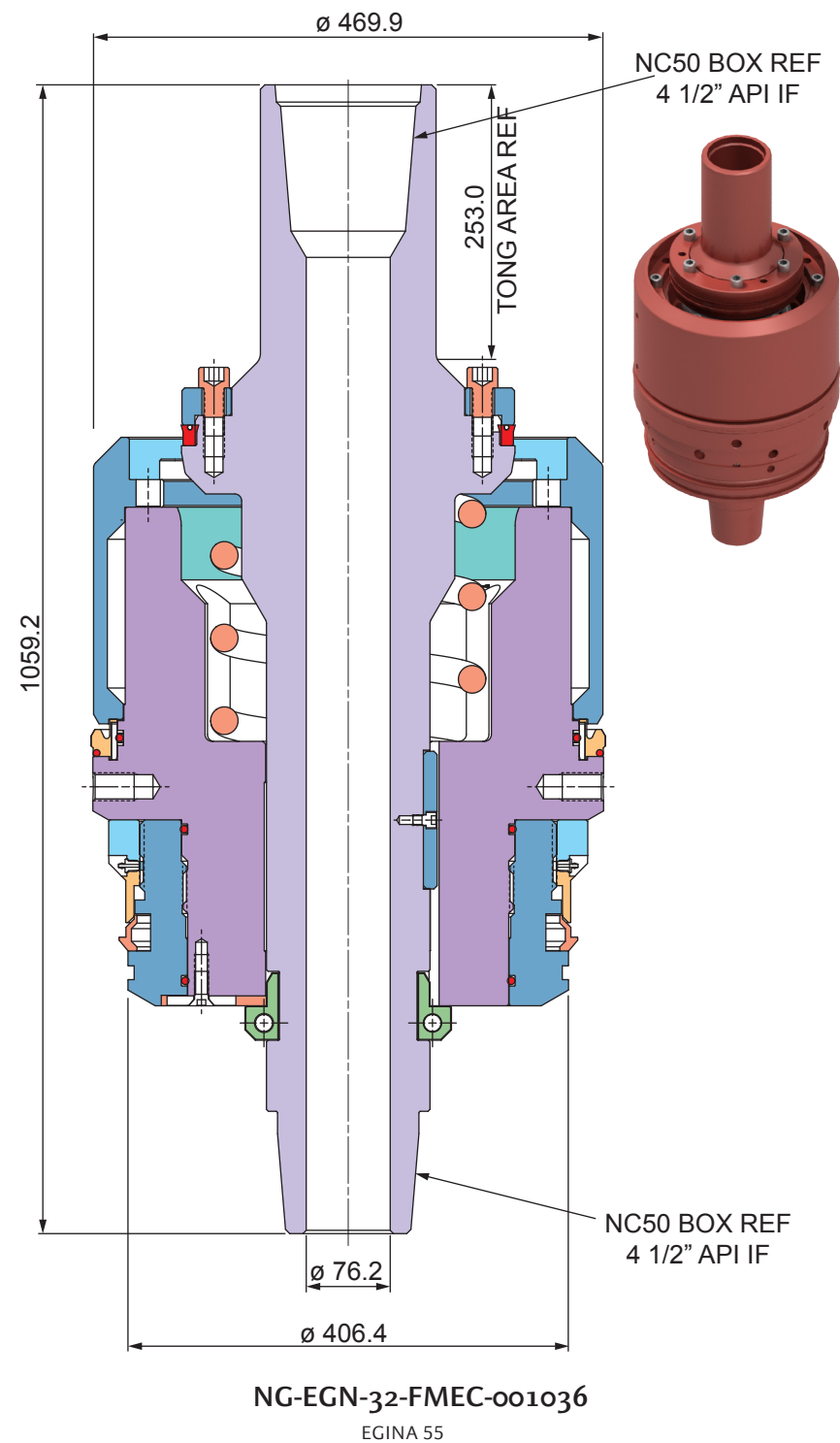
NG-EGN-32-FMEC-001025

EGINA 53

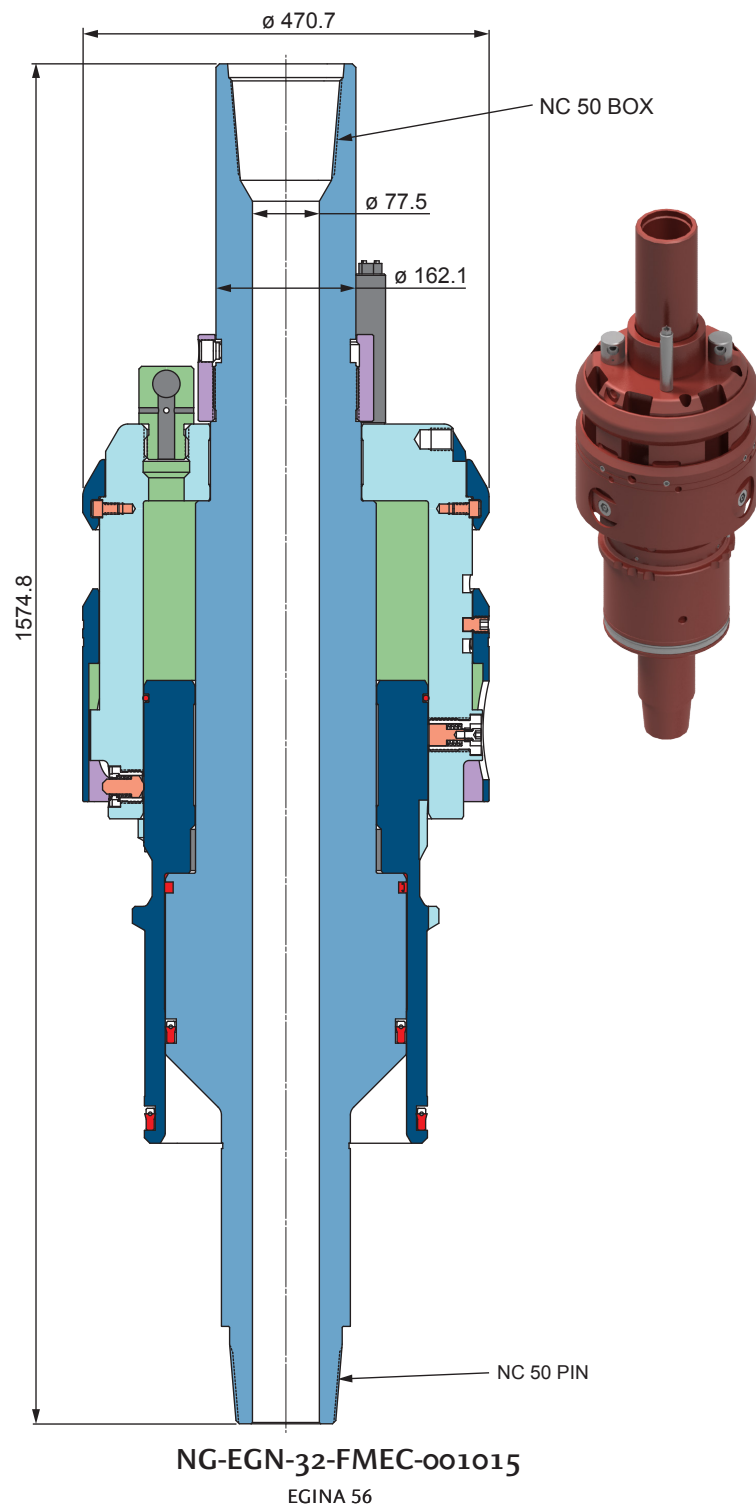
Single Trip Tool (STT)



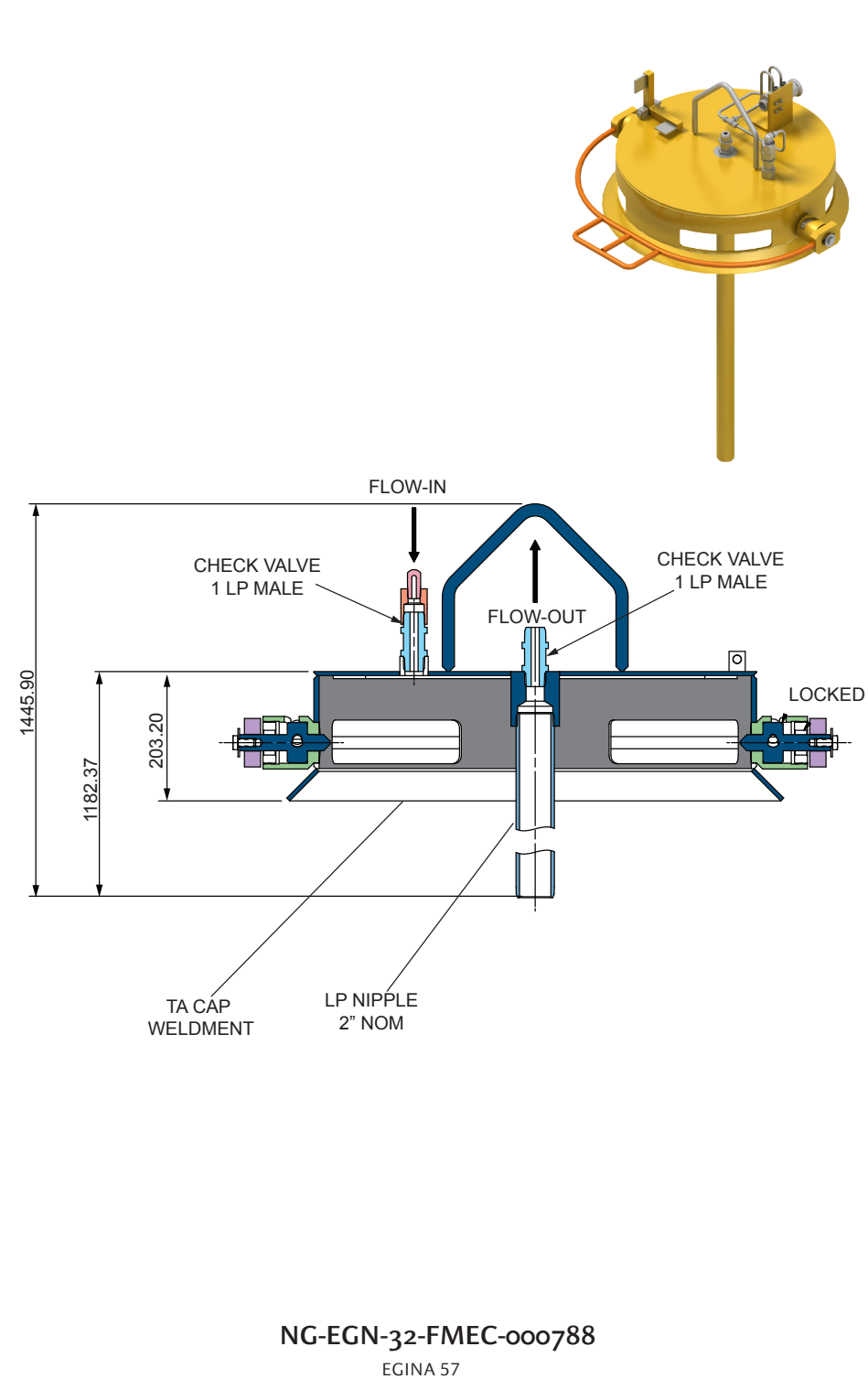
Spring Loaded Tool (SLT)



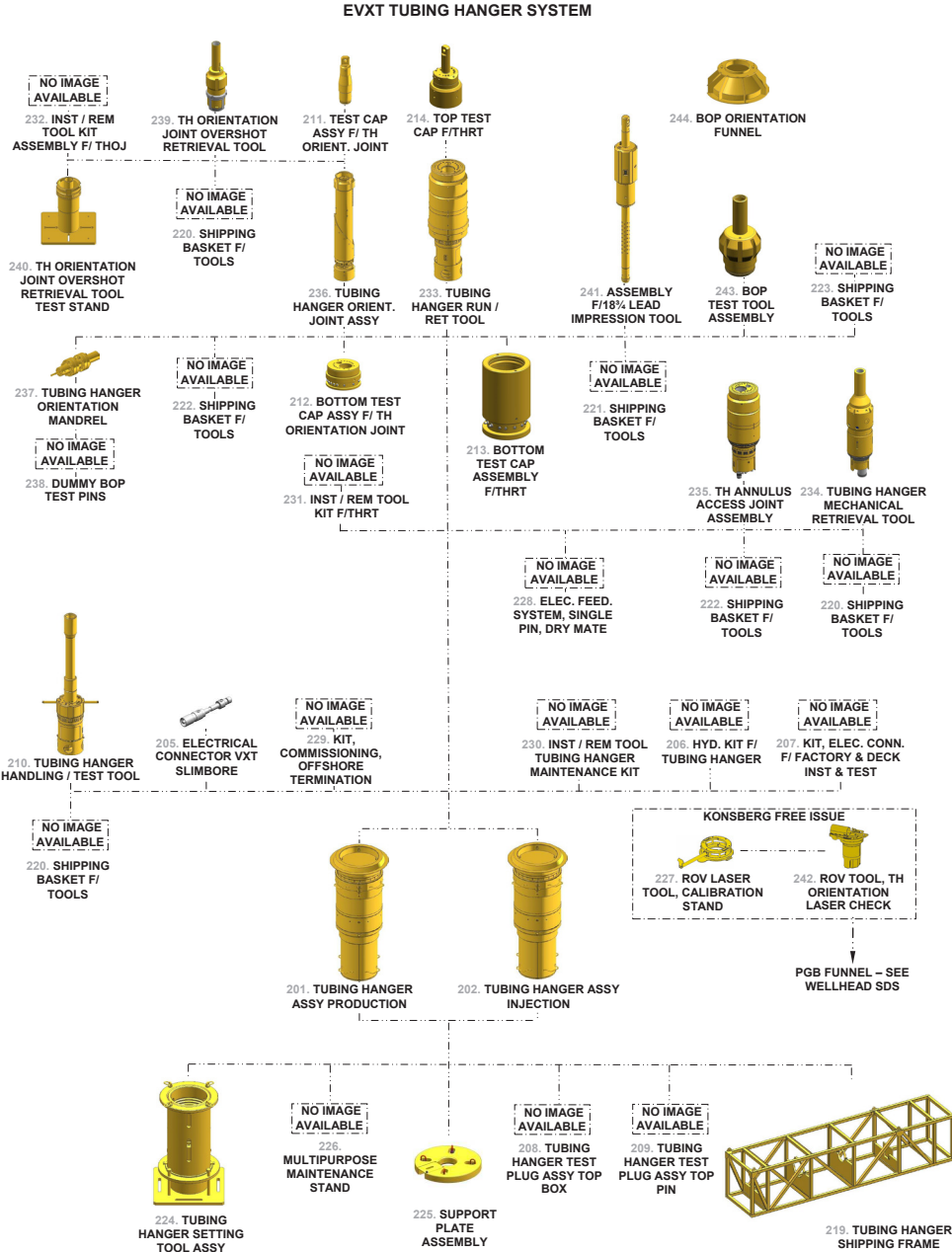
Annulus Seal Assembly Running Tool



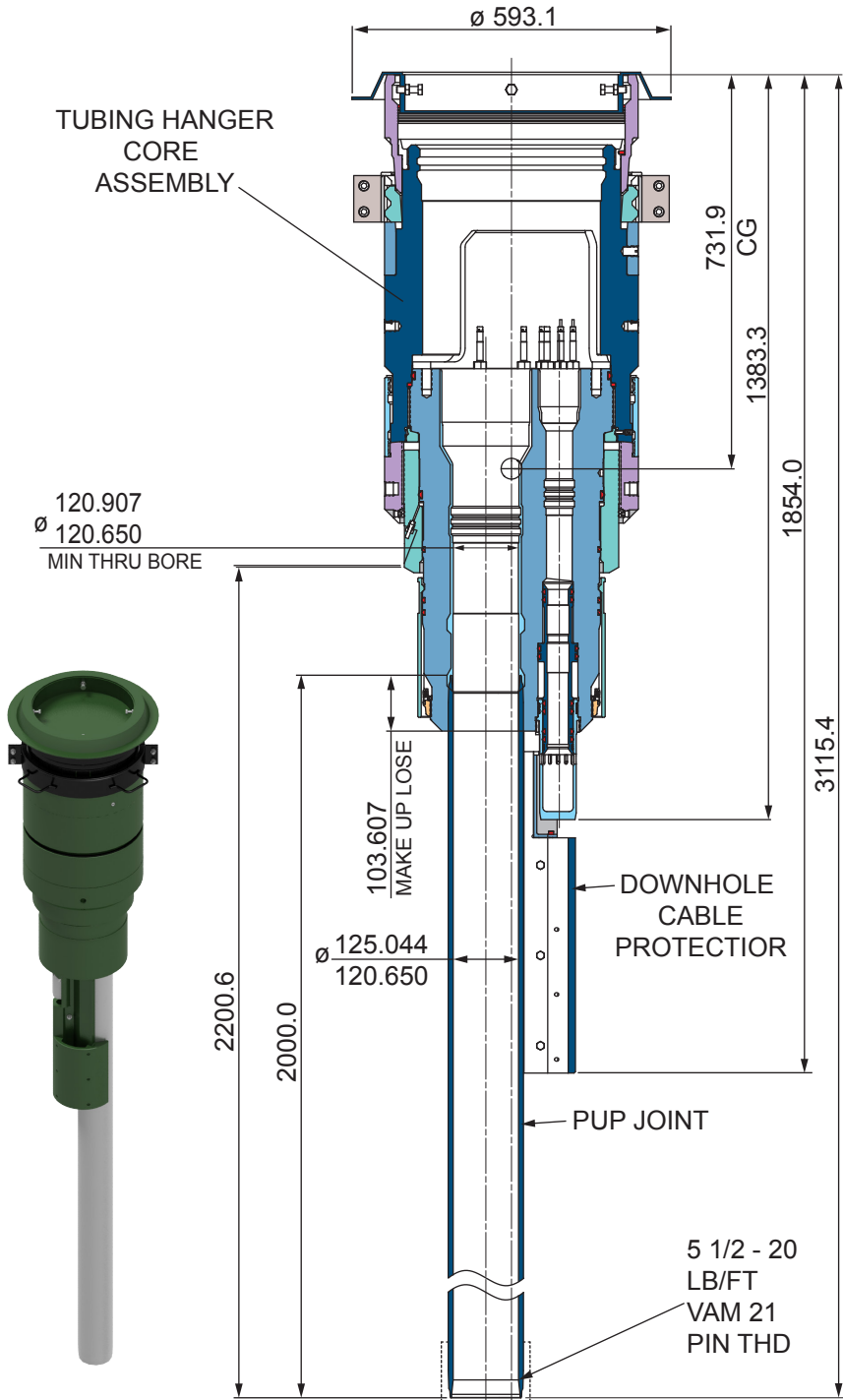
Temporary Abandonment (TA) Cap



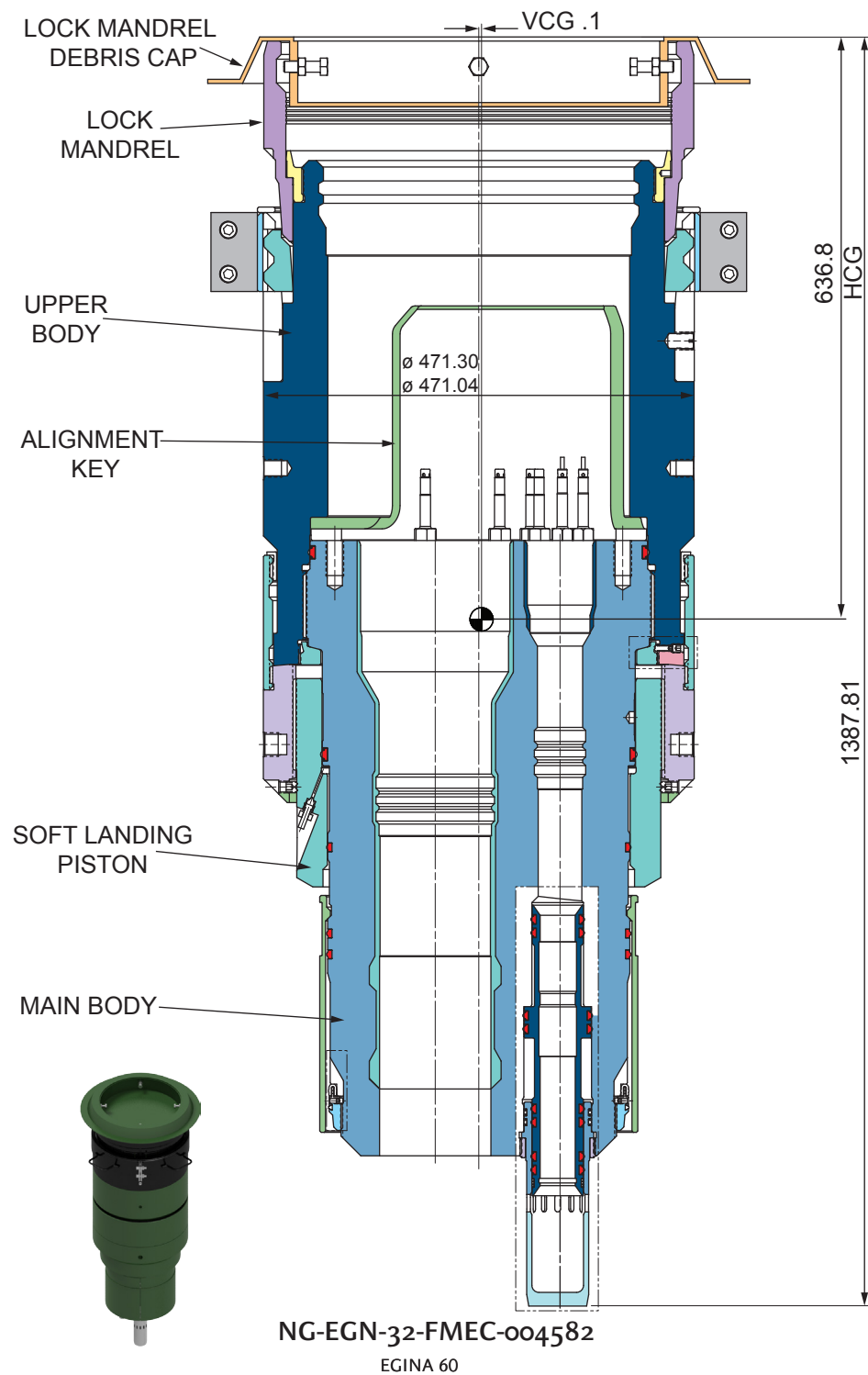
Tubing Hanger Scope of Supply



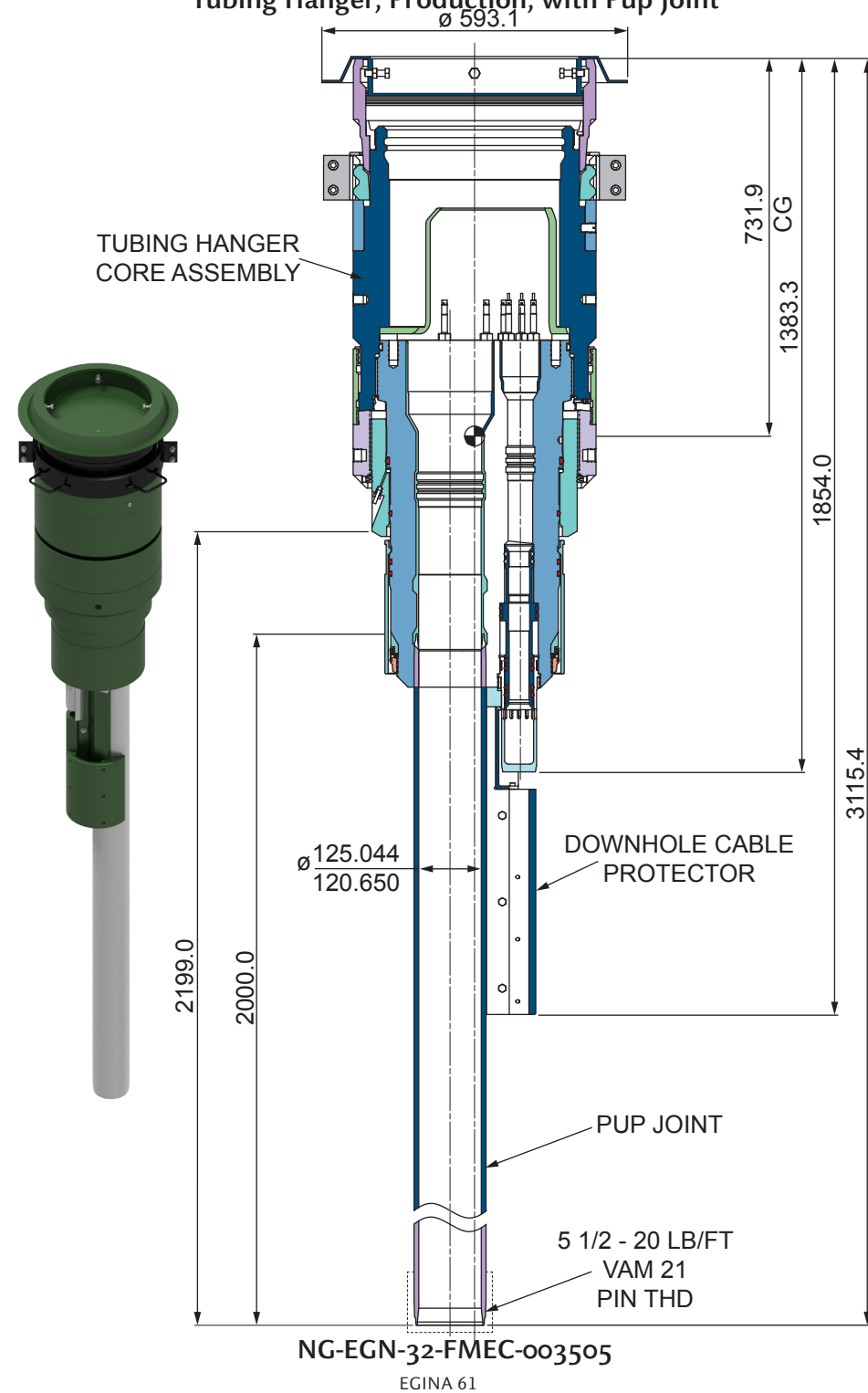
Tubing Hanger, Injection with Pup Joint



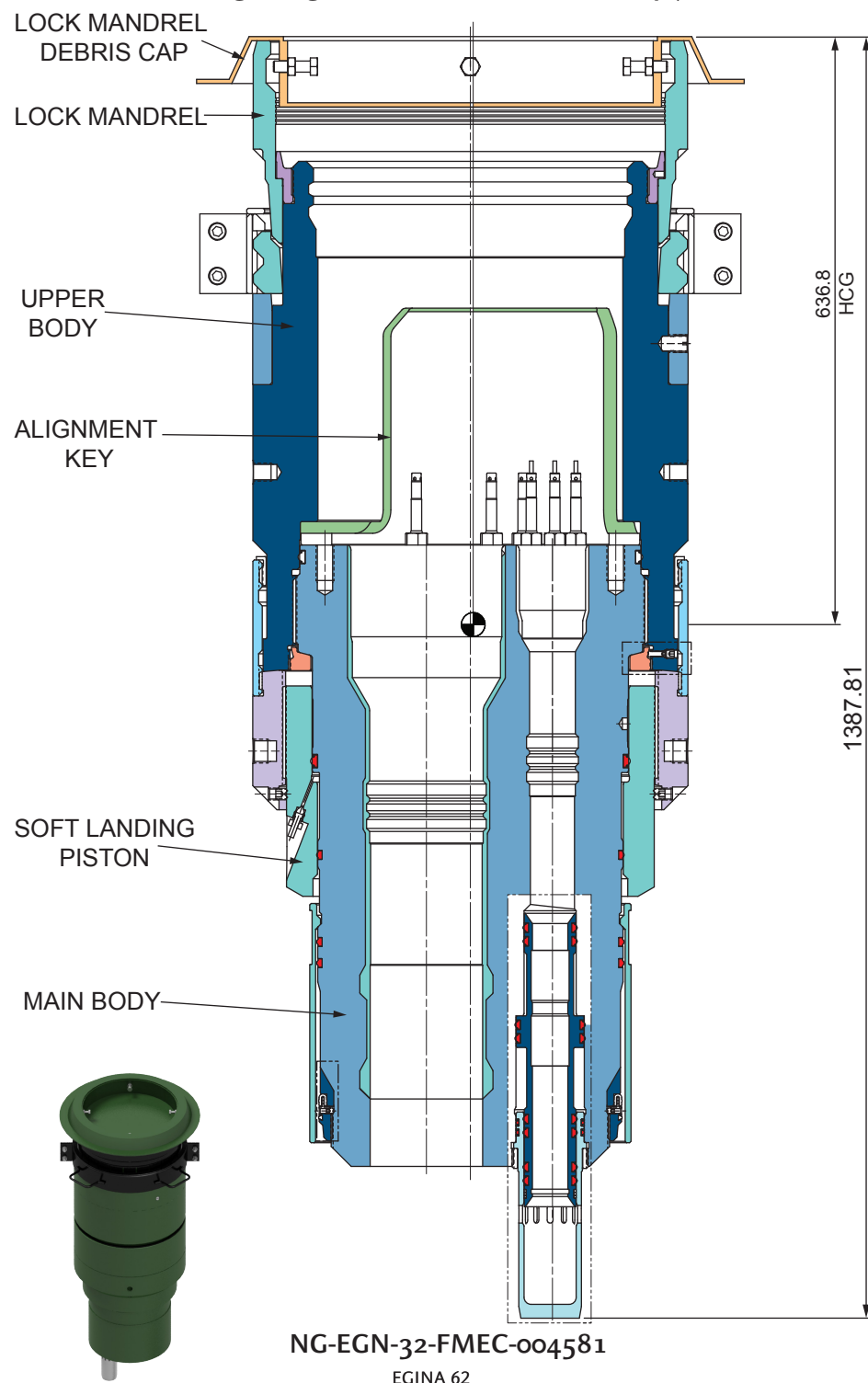
Tubing Hanger, Injection, without Pup Joint



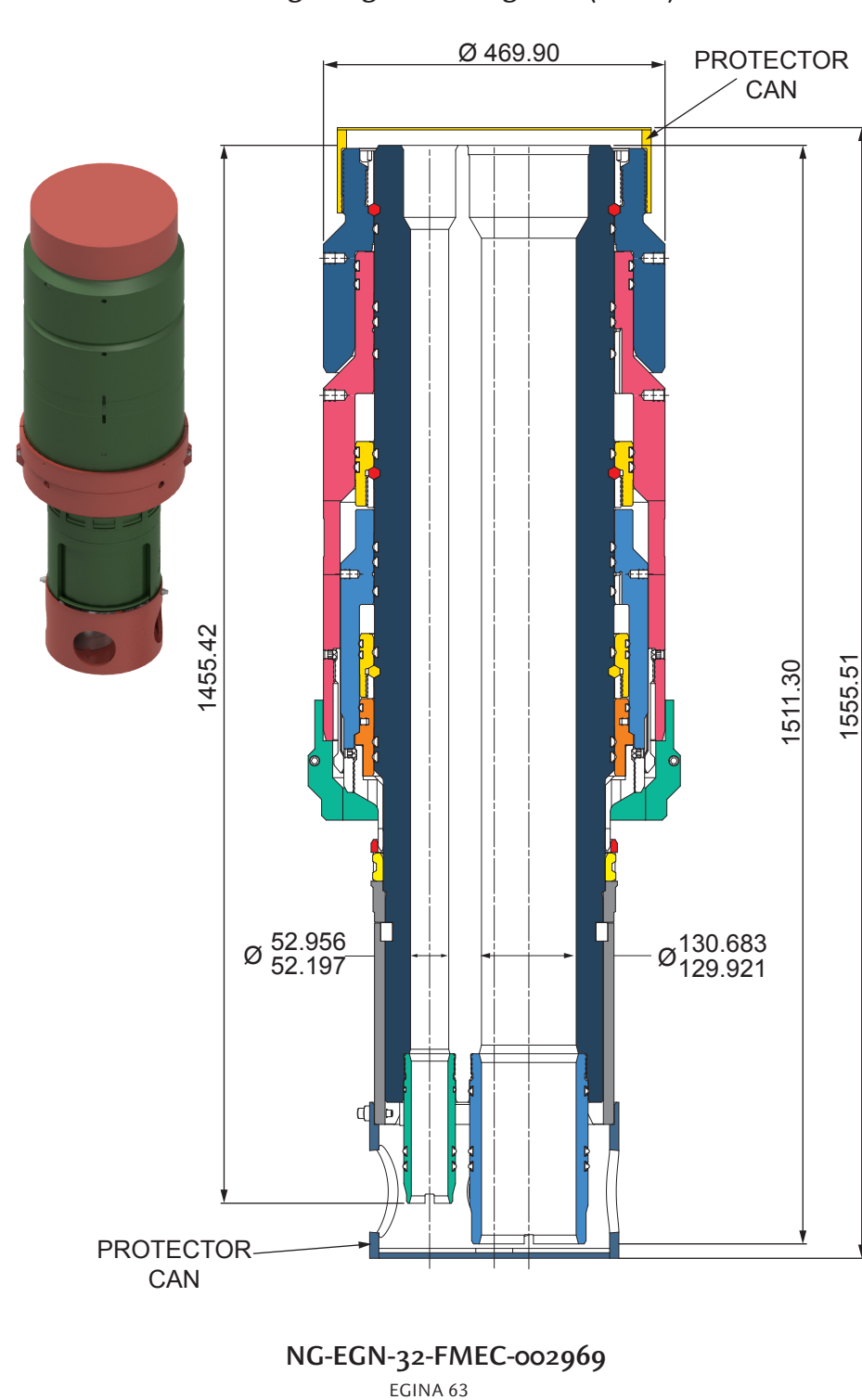
Tubing Hanger, Production, with Pup Joint



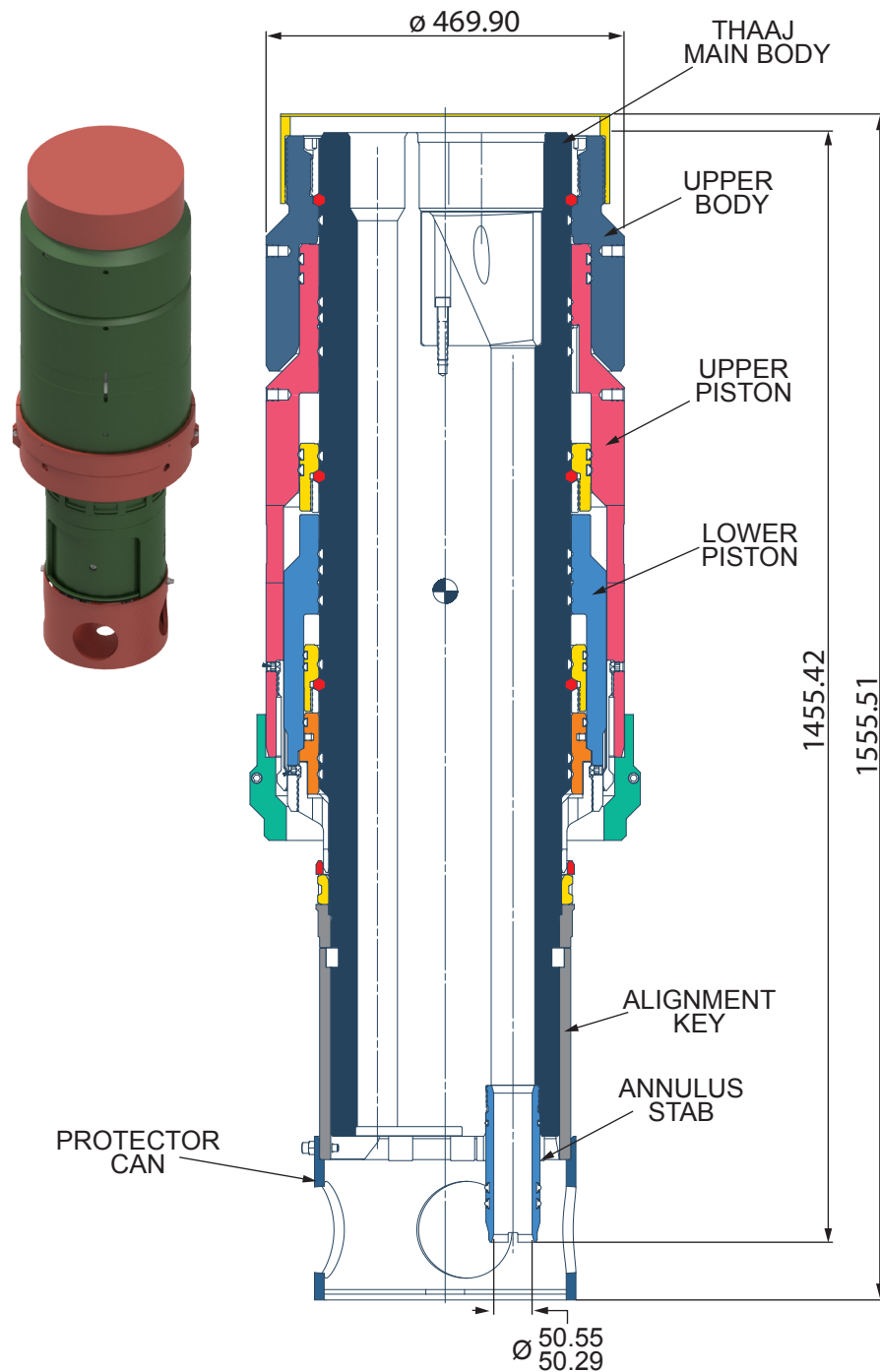
Tubing Hanger, Production, without Pup Joint



Tubing Hanger Running Tool (THRT)



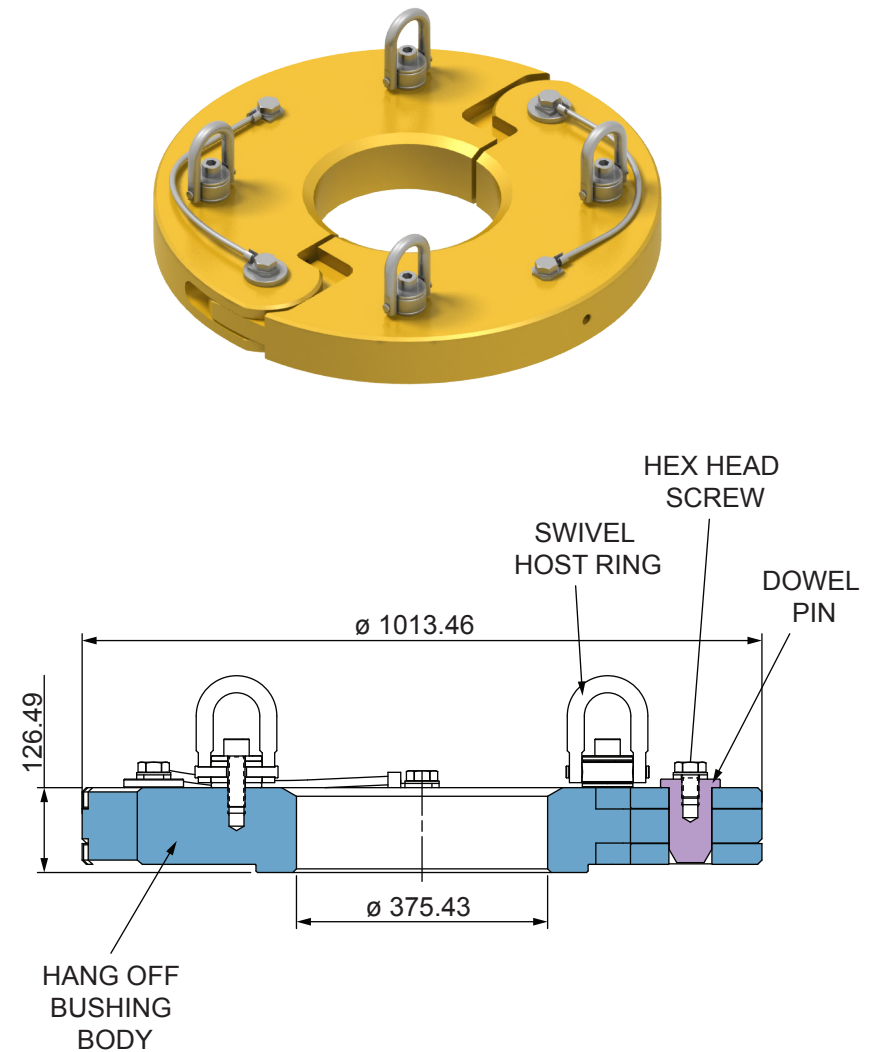
Tubing Hanger Annulus Access Joint (THAAJ)



NG-EGN-32-FMEC-003756

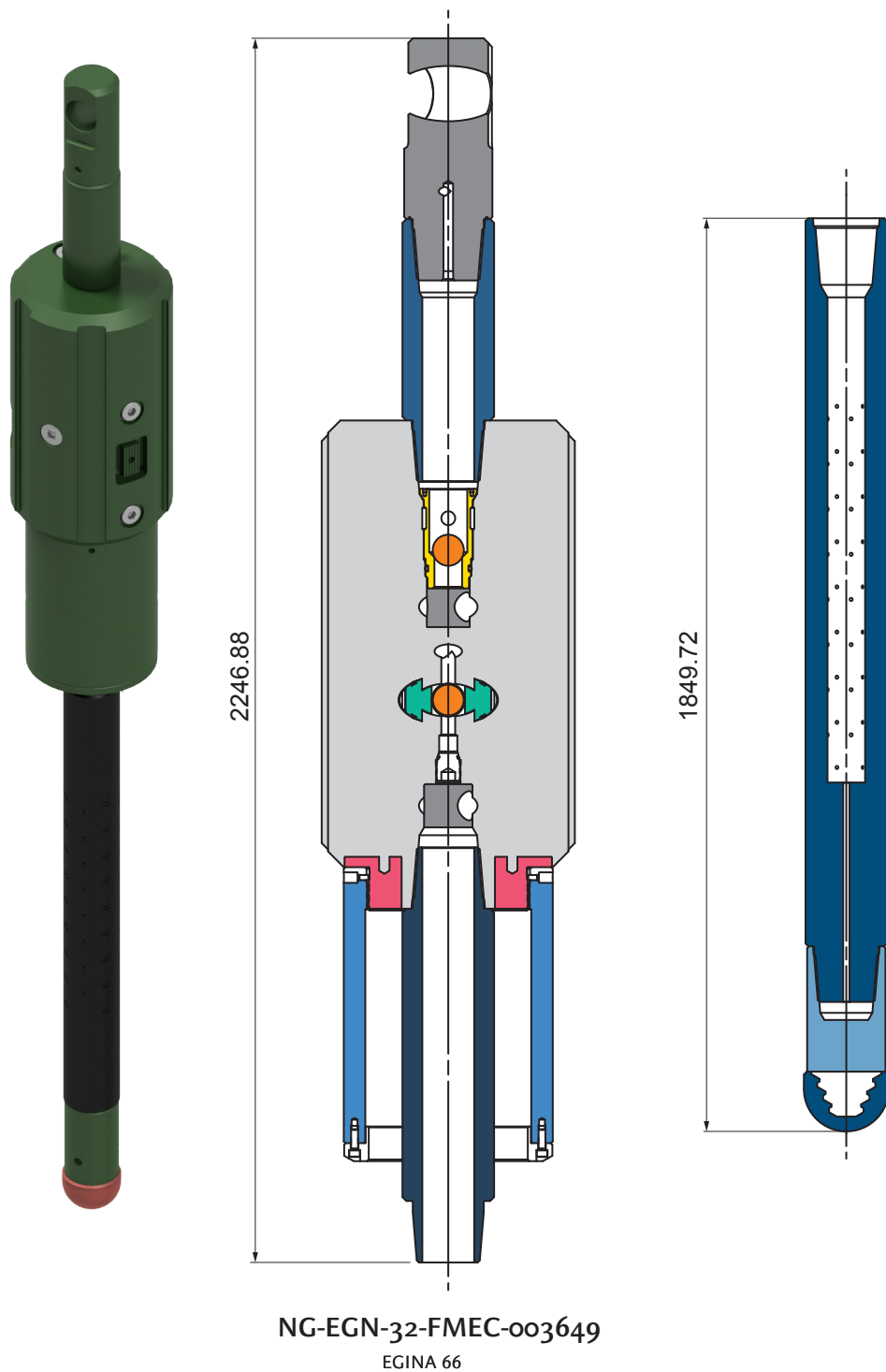
EGINA 64

Tubing Hanger Hang-off Bushing

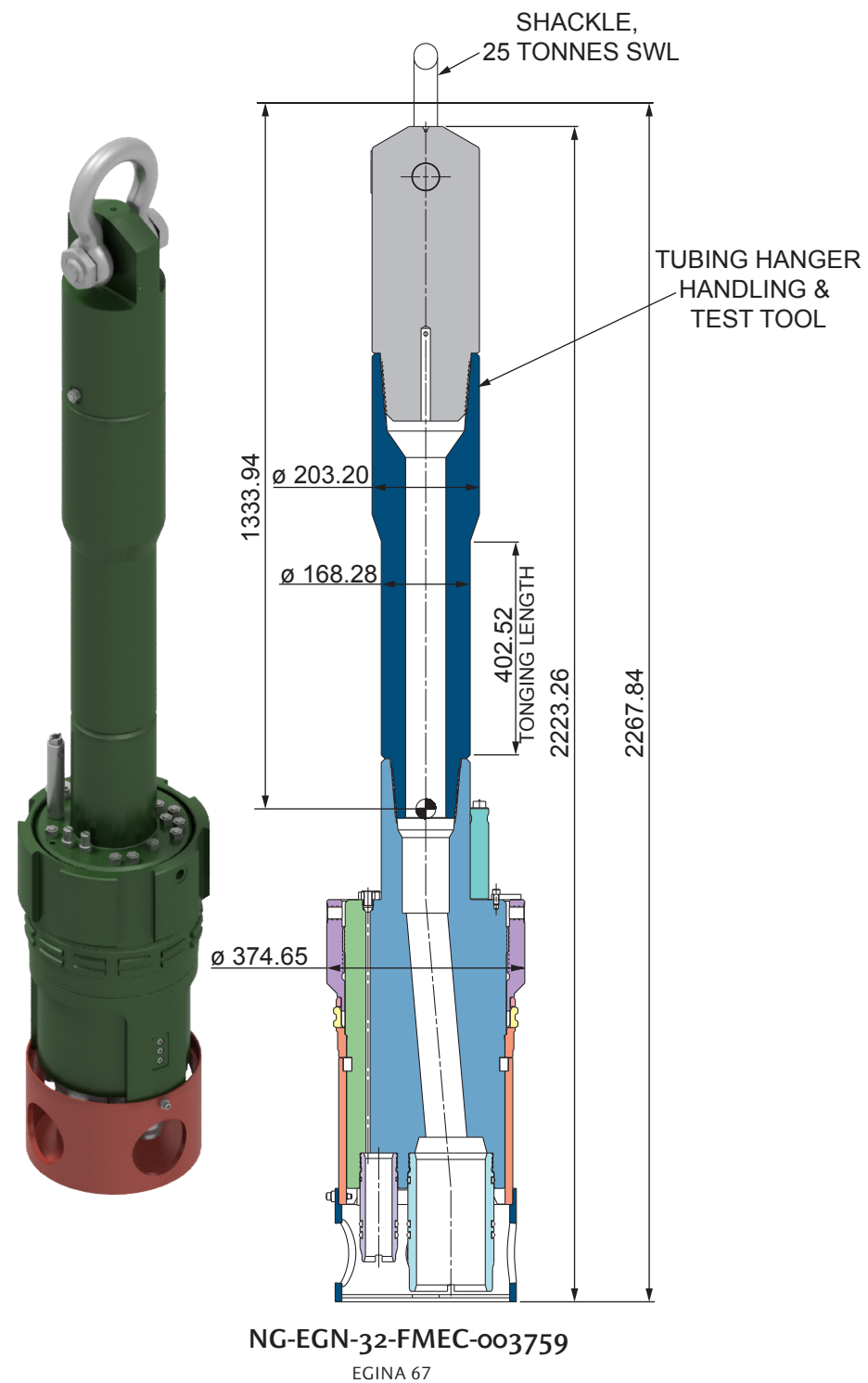


EGINA 65

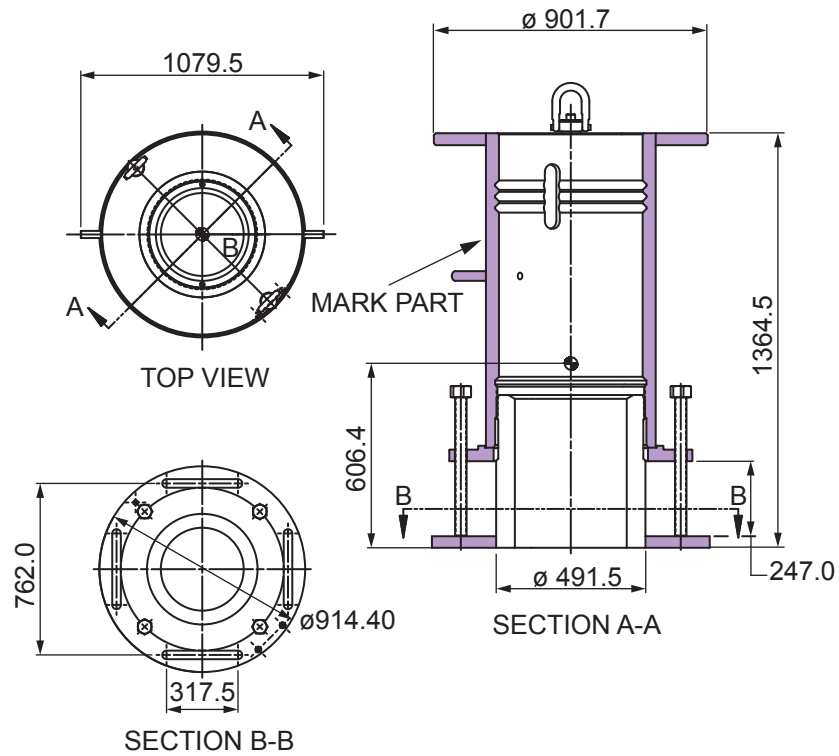
Tubing Hanger Lead Impression Tool



Tubing Hanger Test/Handling Tool



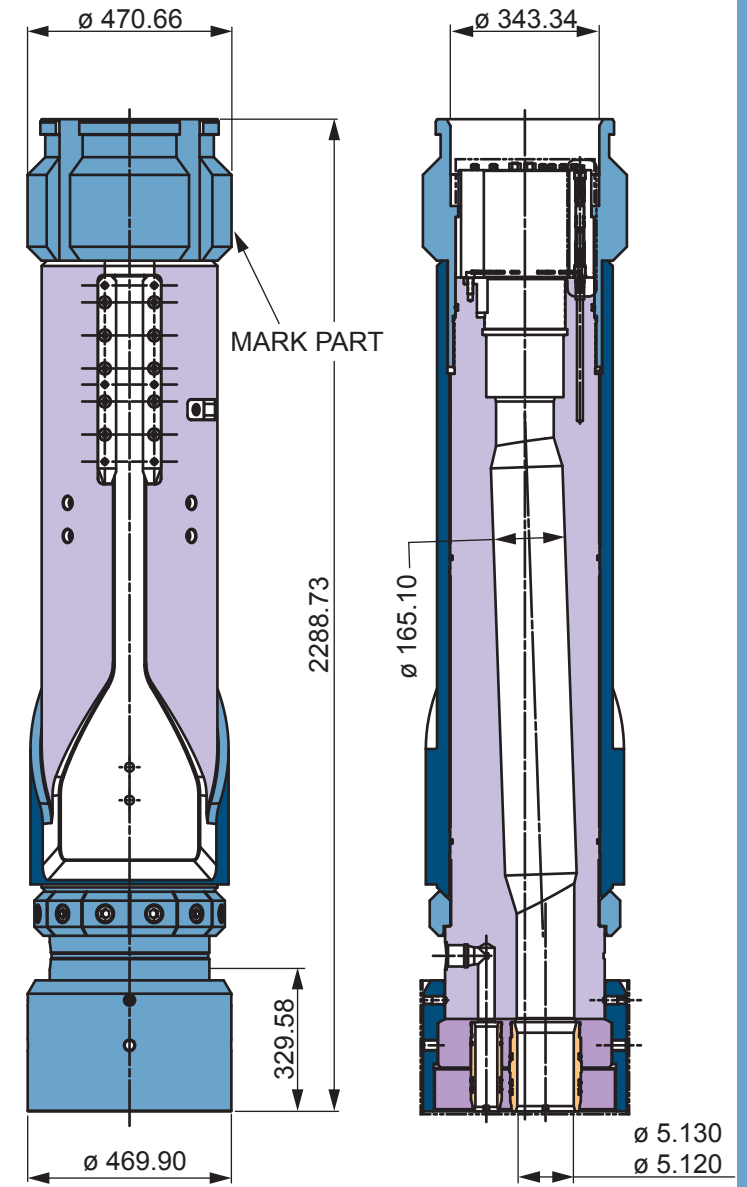
Tubing Hanger Deck Storage/Setting Stand



NG-EGN-32-FMEC-002210

EGINA 68

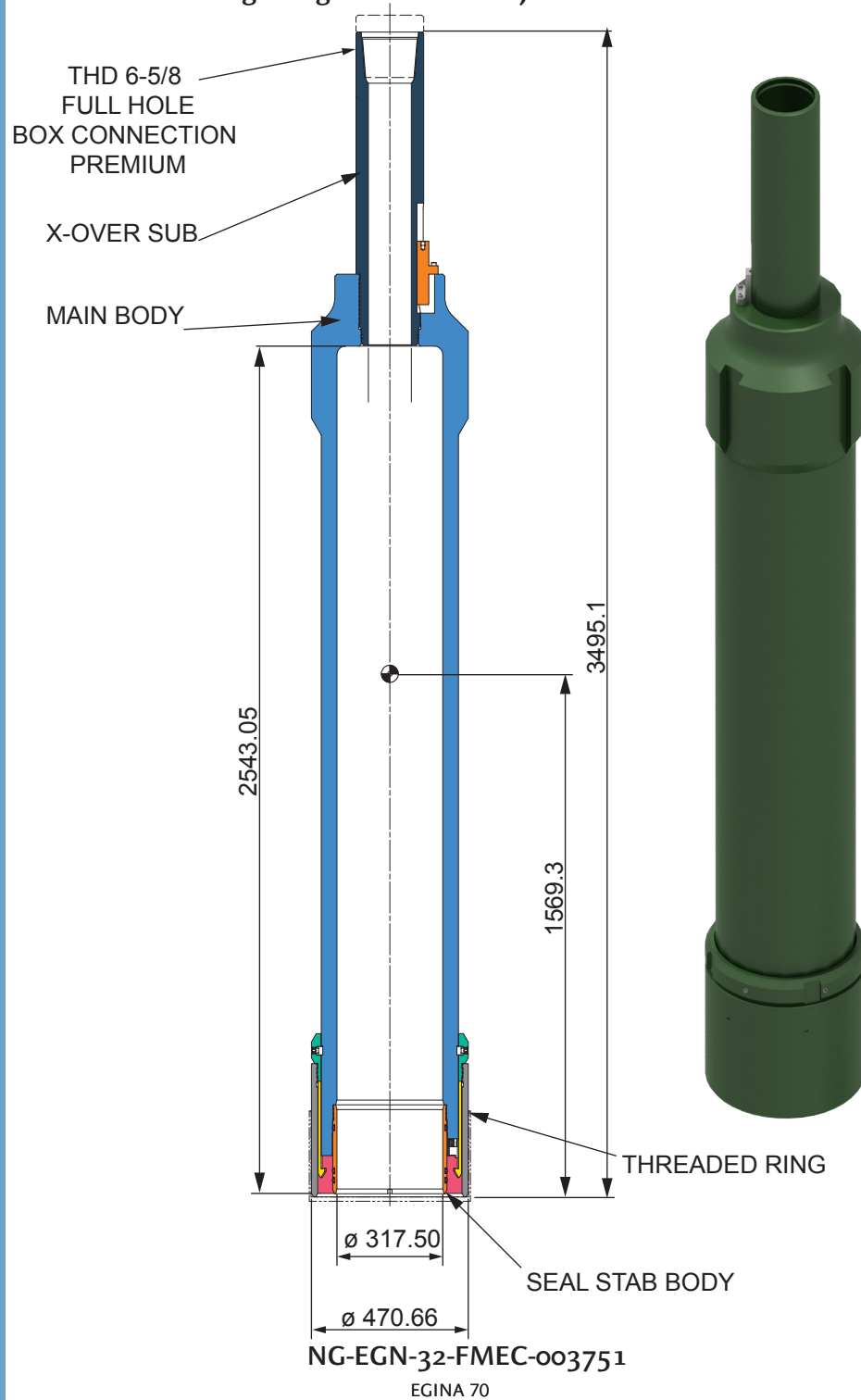
Tubing Hanger Orientation Joint (THOJ)



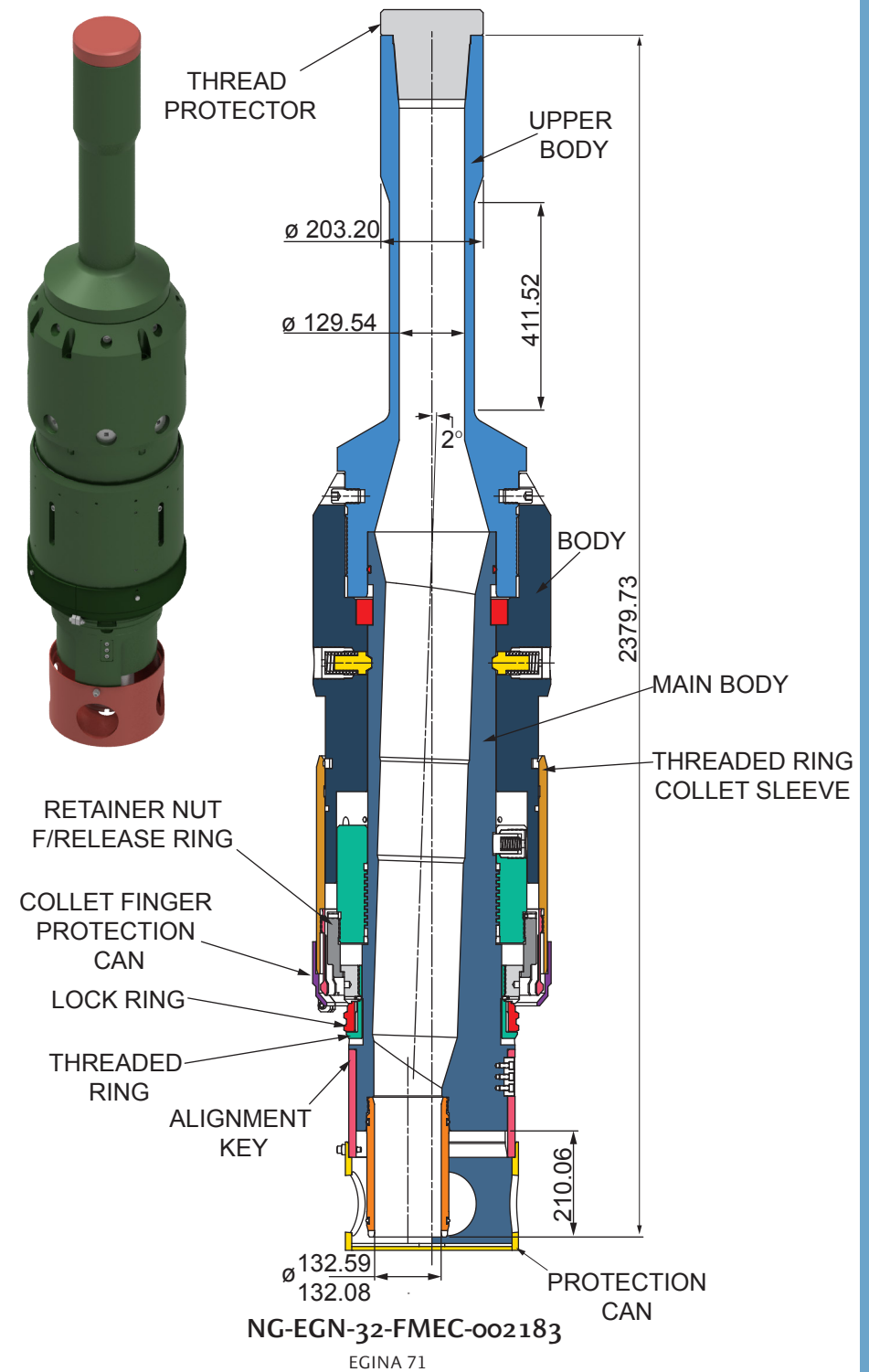
NG-EGN-32-FMEC-003754

EGINA 69

Tubing Hanger Orientation Joint Overshot Tool

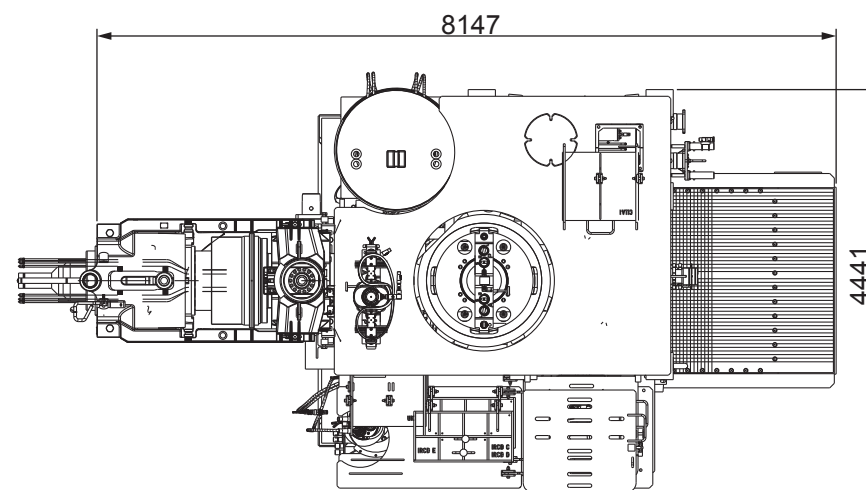
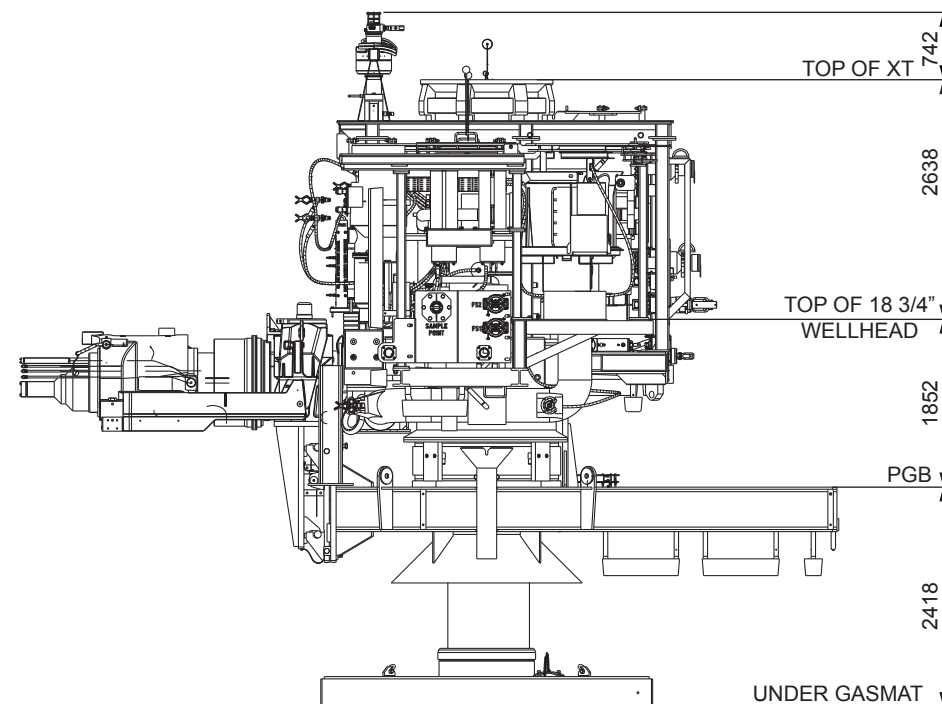
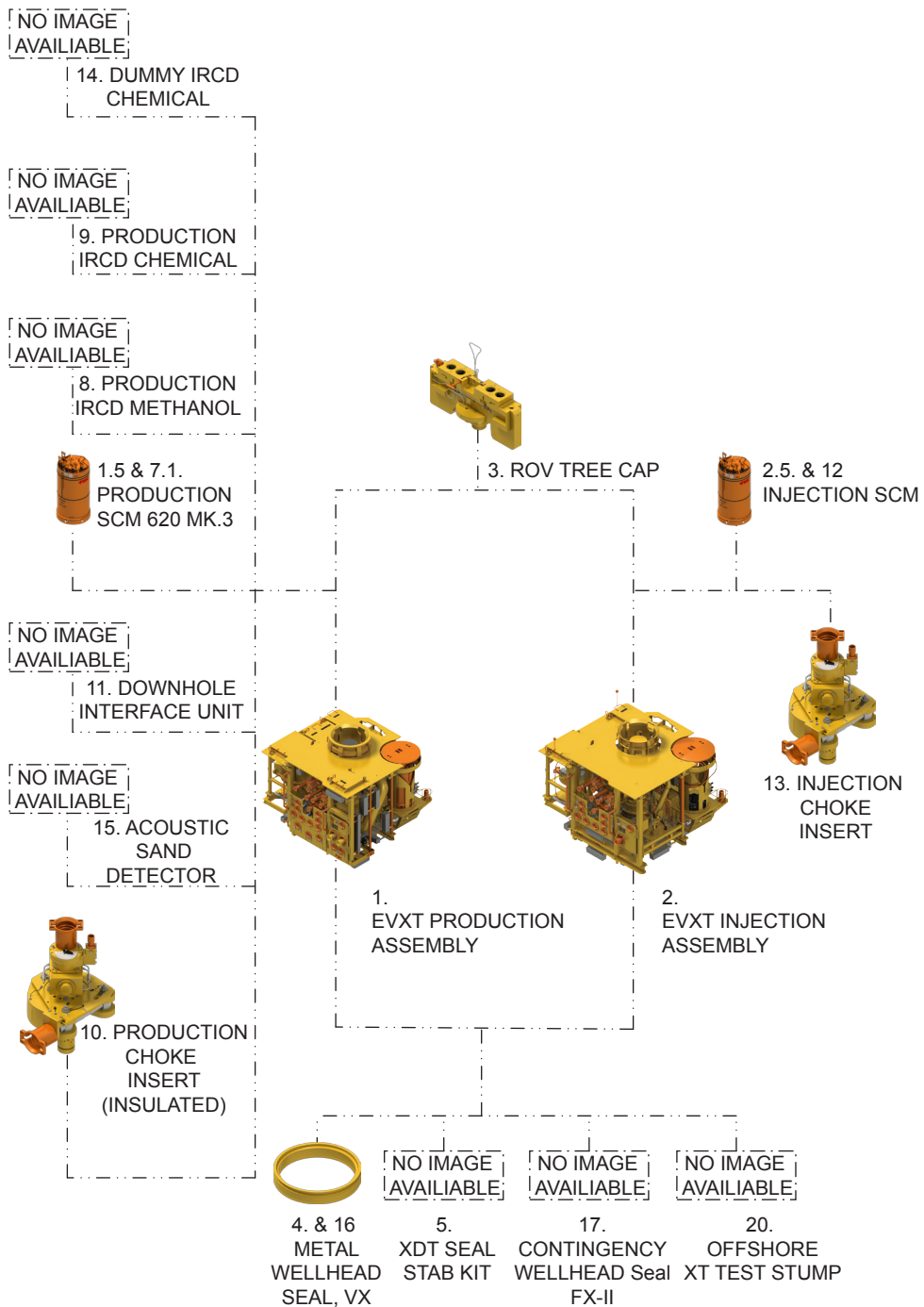


Tubing Hanger Mechanical Retrieval Tool



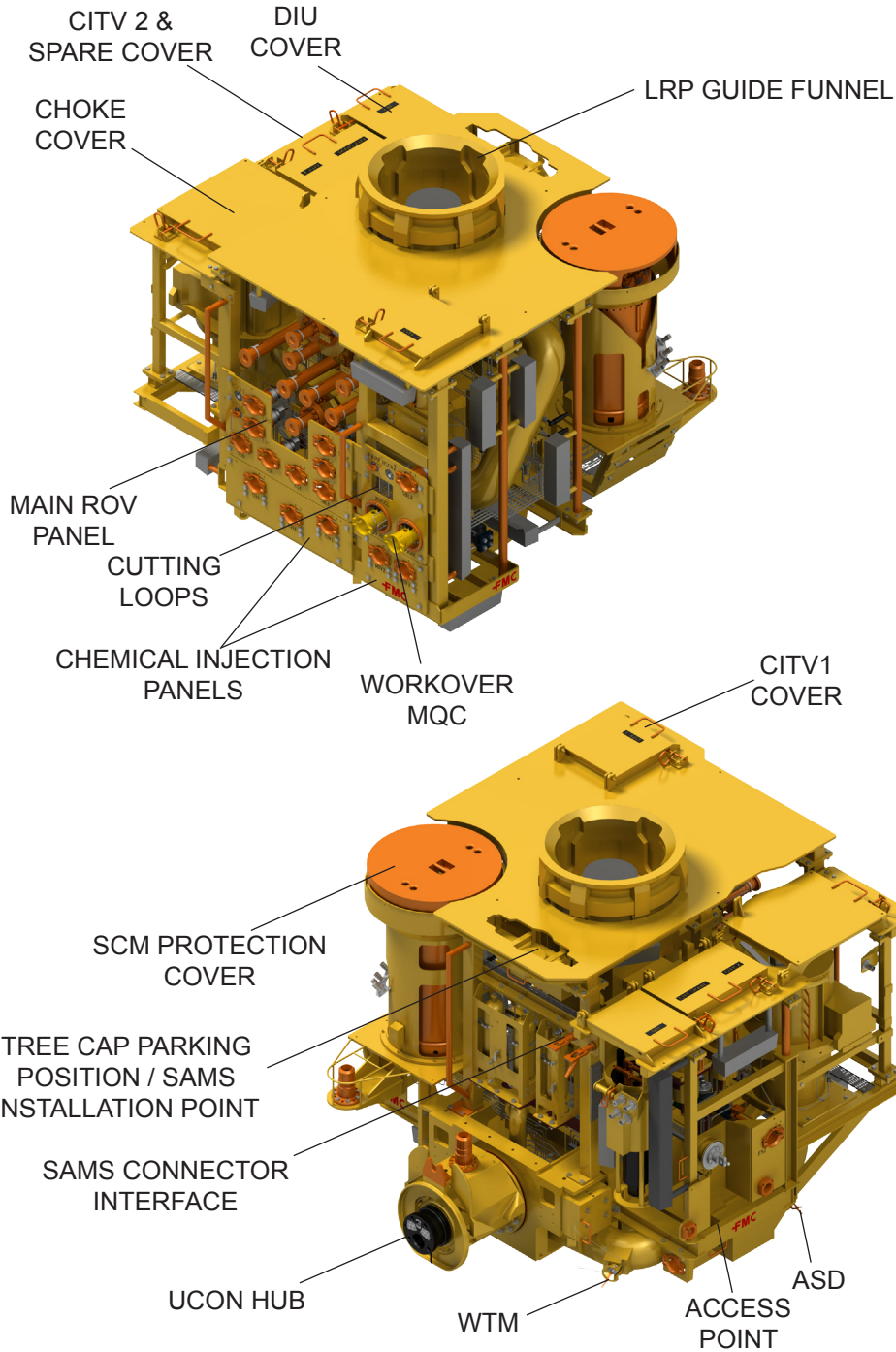
Xmas Tree System Scope of Supply

Wellhead/Conductor + Gasmat + PGB + Xmas Tree (incl. stack-up heights)



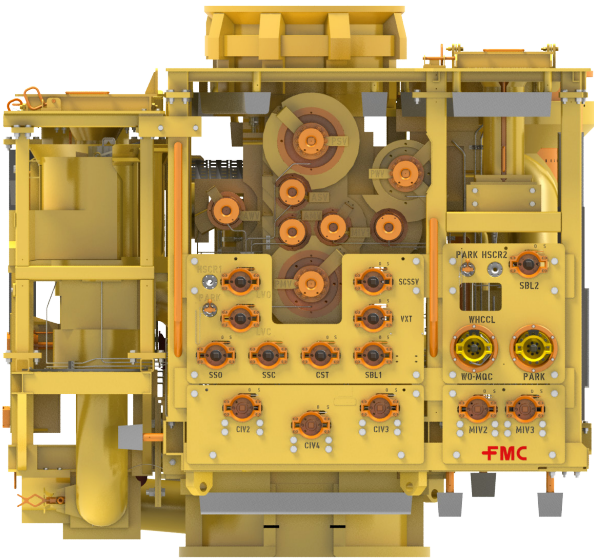
NG-EGN-30-FMEC-000621

Xmas Tree, Production



NG-EGN-32-FMEC-004128
EGINA 74

ROV Panel, Xmas Tree Production



Technical Data for ROV Interfaces (Linear Valves)

Label	Description	ROV Interface	Load to Override at 5K Differential	Max Load to Override	Max. Allowable Override Load
PMV PSV PWV	5-1/8"-10K E3, Block Mounted Actuator / Gate Valve	ISO13628-8 Linear Push Type B	113,057 lb [502.9 kN]	150,000 lb [667.2 kN]	200,000 lb [889.6 kN]
AMV ASV AWV MIV1 SLV	2-1/16"-10K E3, Block Mounted, Actuator / Gate Valve	ISO13628-8 Linear Push Type B	35,879 lb [159.6 kN]	43,471 lb [193.4 kN]	116,250 lb [517.1 kN]

NG-EGN-32-FMEC-000217
EGINA 75

ROV Panel, Xmas Tree Production

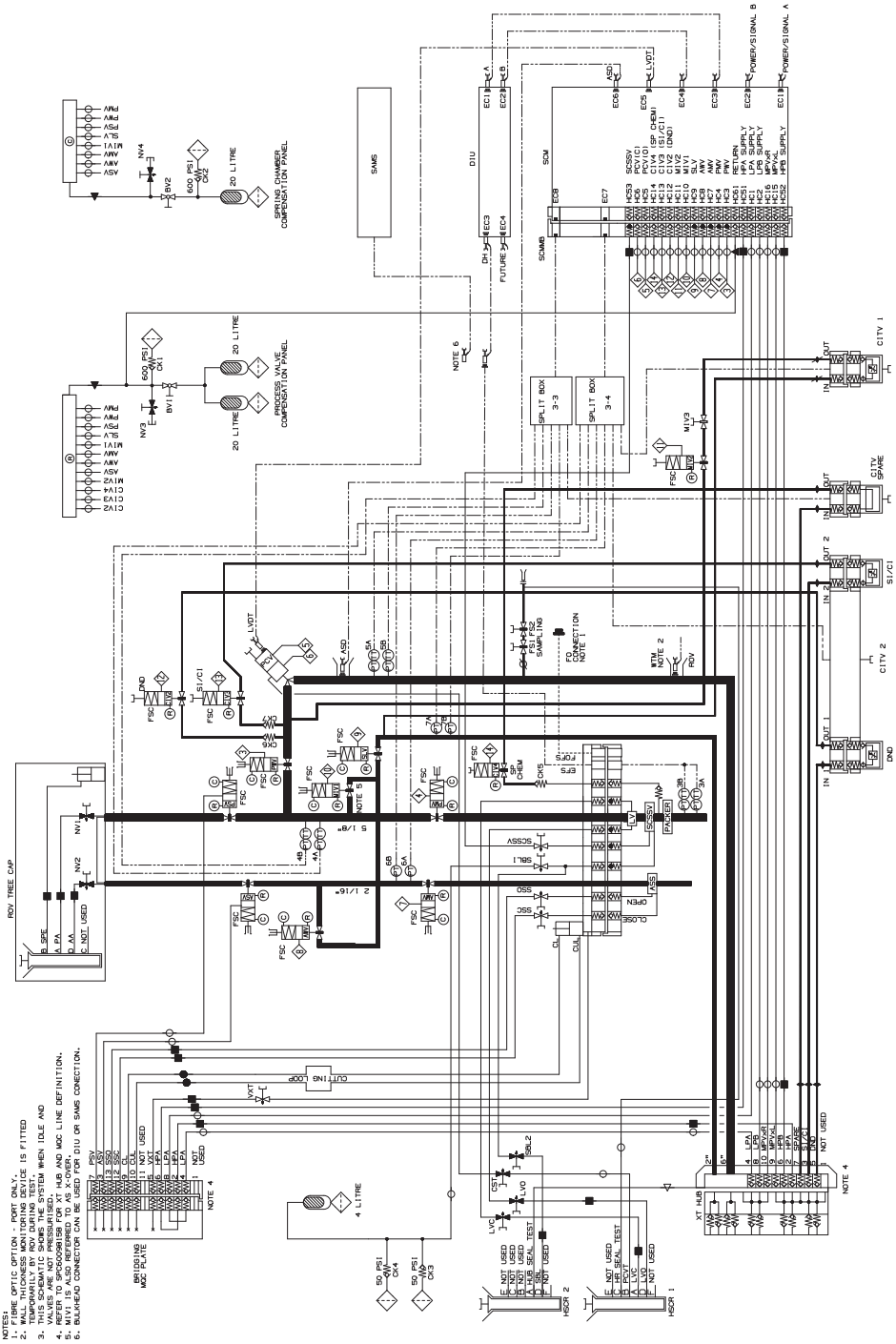
Technical Data for ROV Interfaces (Rotary Valves)

Label	Description	ROV Interface	No. of Turns	Direction to Close	Torque	
					Normal Operating	Max. Operating
CIV2 CIV3 CIV4 MIV2 FS1 FS2 MIV3	1" - 10K Gate Valve	ISO13628-8 Class 4	10.5±0.5	C/W	90 lbf-ft [122 Nm]	250 lbf-ft [339 Nm]
SSC SSO SCSSV LVC LVO SBL1 SBL2 CST VXT	1/2"-10K Panel Mounted, Needle Valve	ISO13628-8 Class 4	4.5±0.5	C/W	50 lbf-ft [68 Nm]	200 lbf-ft [271 Nm]
PCV	5-1/8" - 10K Hydraulic Stepping Valve	ISO13628-8 Class 4	16.5	-	210 lbf-ft [285 Nm]	320 lbf-ft [434 Nm]

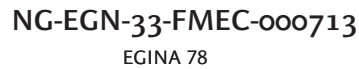
Technical Data for (Other Valves)

Label	Description	Working Pressure	Cracking Pressure
CK5 CK6 CK7	1"-10K Bentley	10,000 psi [690 bar]	25 - 35 psi [1.7 - 2.4 bar]

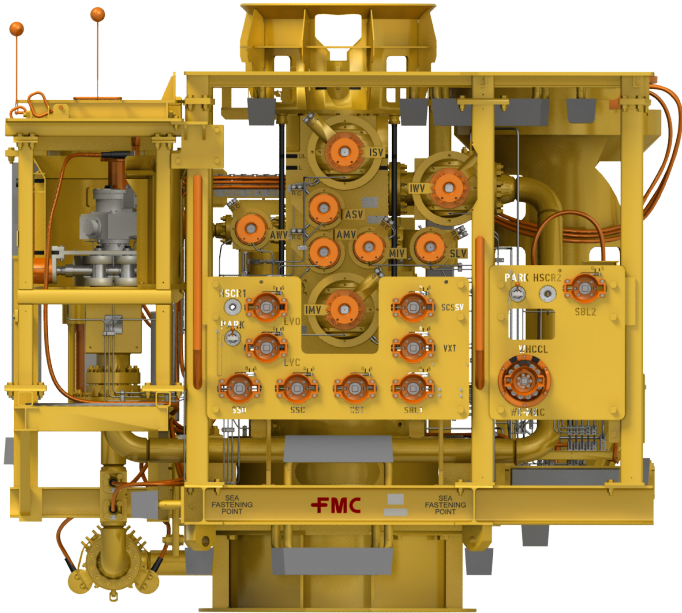
Xmas Tree Production, schematic



XMAS TREE SYSTEM



ROV Panel, Xmas Tree Injection



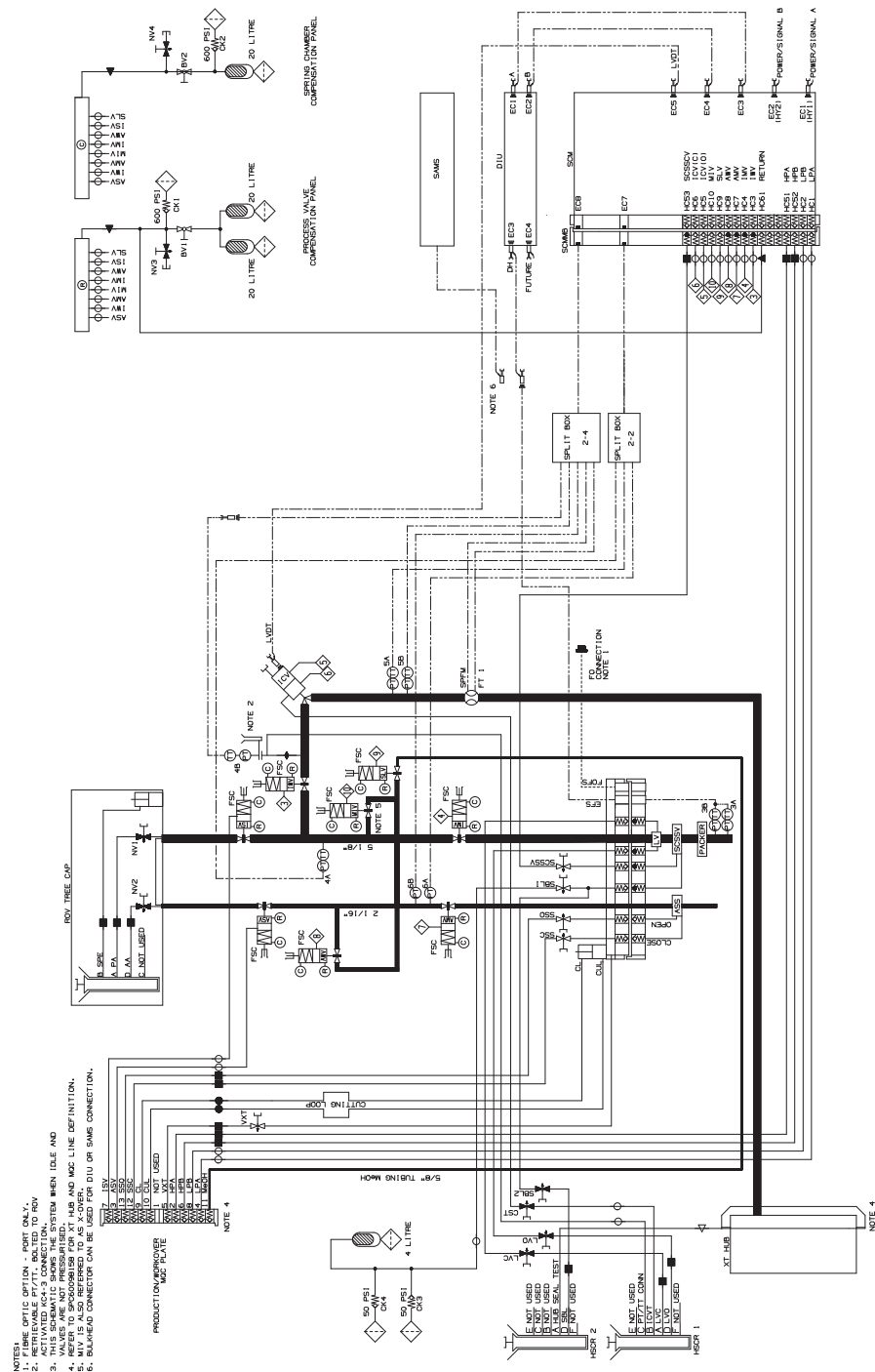
Technical Data for ROV Interfaces (Linear Valves)

Label	Description	ROV Interface	Load to Override at 5K Differential	Max Load to Override	Max. Allowable Override Load
IMV ISV IWV	5-1/8"-10K E3, Block Mounted Actuator / Gate Valve	ISO13628-8 Linear Push Type B	113,057 lb [502.9 kN]	150,000 lb [667.2 kN]	200,000 lb [889.6 kN]
AMV ASV AWV MIV1 SLV	2-1/16"-10K E3, Block Mounted, Actuator / Gate Valve	ISO13628-8 Linear Push Type B	35,879 lb [159.6 kN]	37,430 lb [193.4 kN]	116,250 lb [517.1 kN]

Technical Data for ROV Interfaces (Rotary Valves)

Label	Description	ROV Interface	No. of Turns	Direction to Close	Torque		
					Normal Operating	Max. Operating	Damage
SSC SSO SCSSV LVC LVO SBL1 SBL2 CST VXT	1/2"-10K Panel Mounted, Needle Valve	ISO13628-8 Class 4	4.5±0.5	C/W	50 lbf-ft [68 Nm]	200 lbf-ft [271 Nm]	NA
ICV	5-1/8" - 10K Hydraulic Stepping Valve	ISO13628-8 Class 4	16.5	-	210 lbf-ft [285 Nm]	320 lbf-ft [434 Nm]	NA

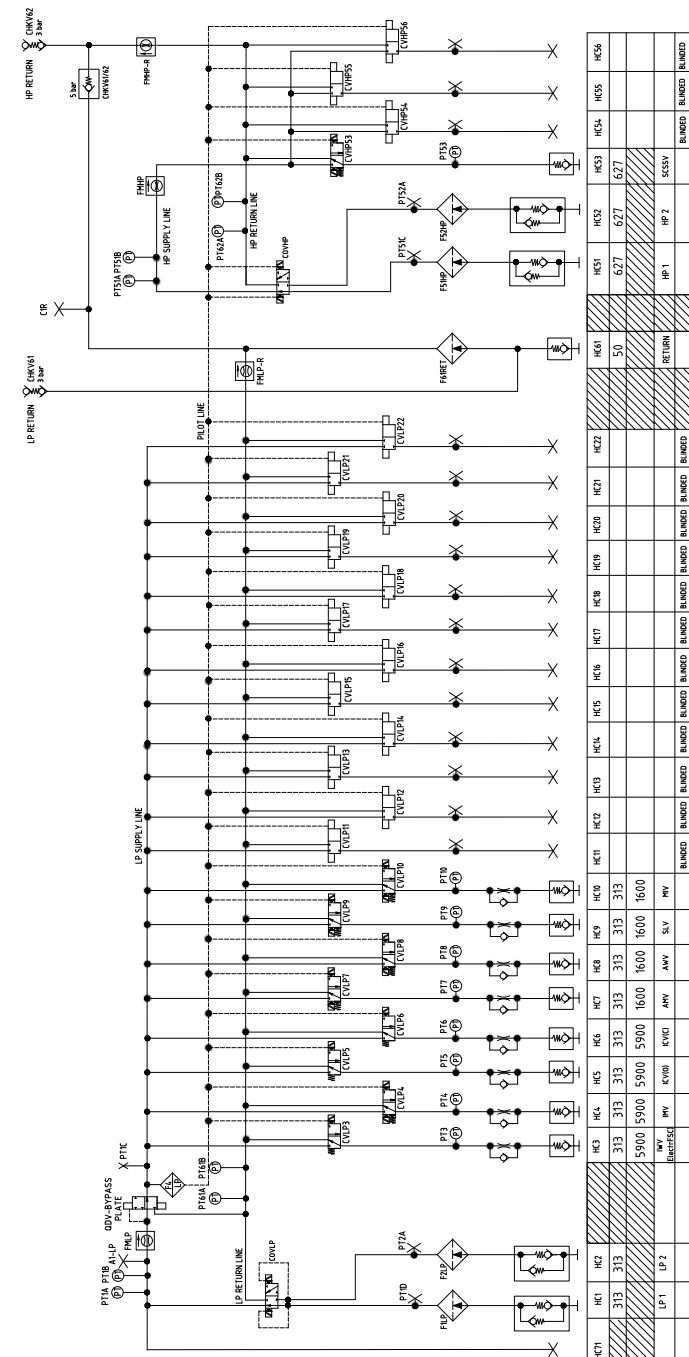
Xmas Tree Injection, schematic



NG-EGN-32-FMEC-002010

EGINA 82

SCM hydraulic schematic, Injection



NG-EGN-33-FMEC-000713

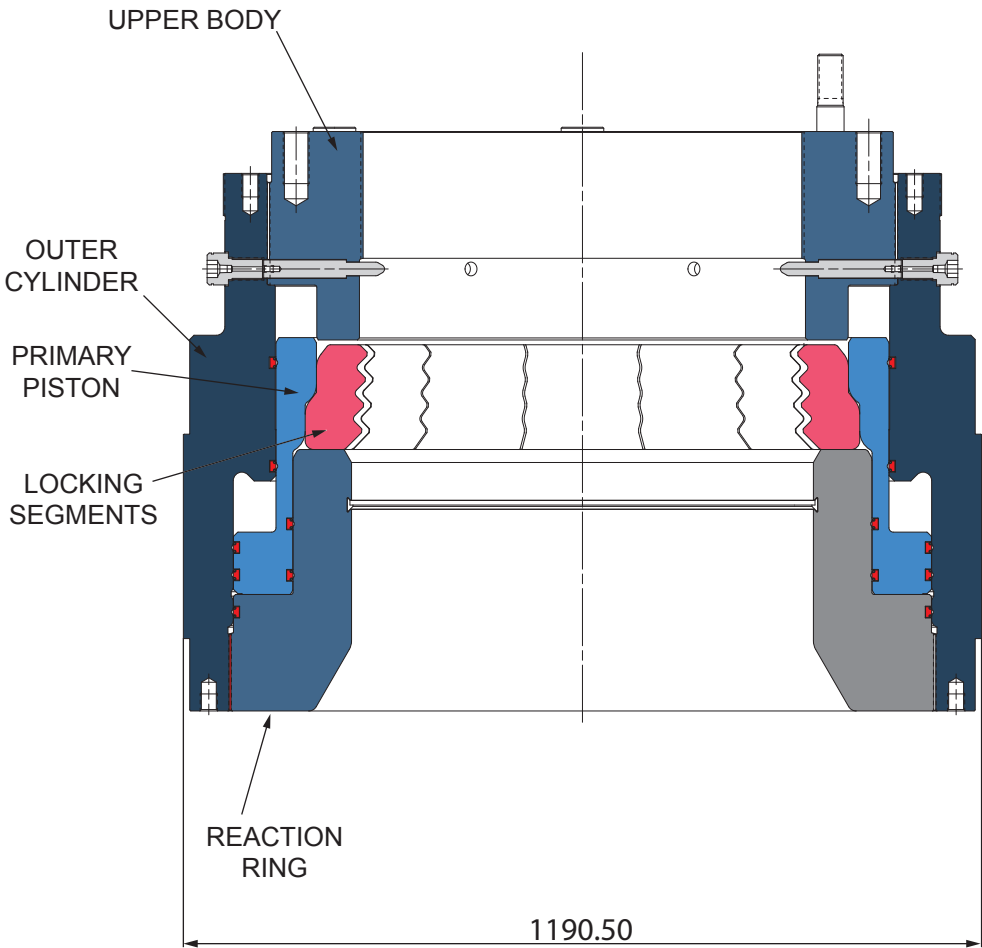
EGINA 83

[illegible]

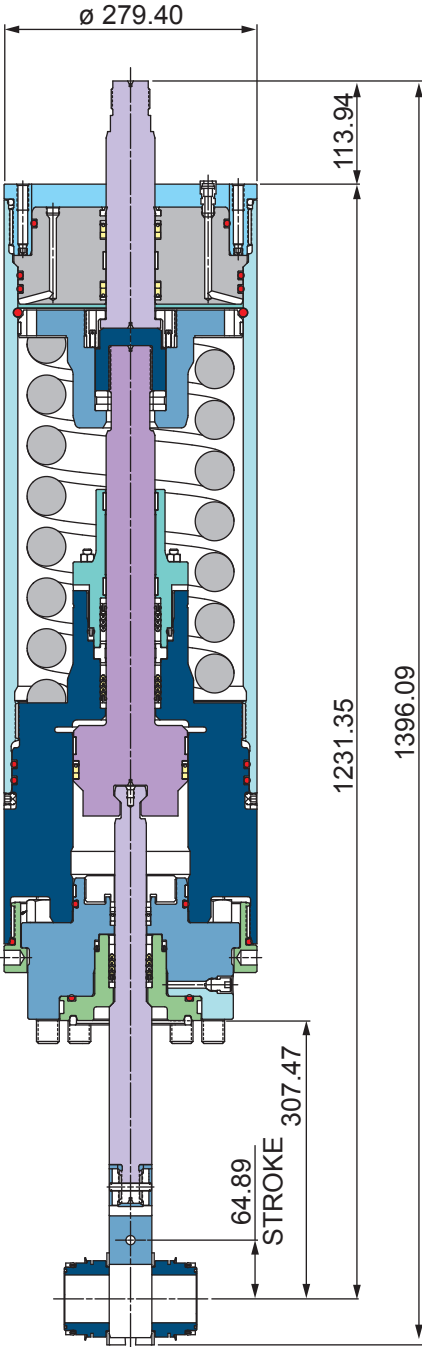
NOTES:

1. SCM is designed for max LP Working Pressure = 345 bar
2. SCM is designed for max HP Working Pressure = 690 bar

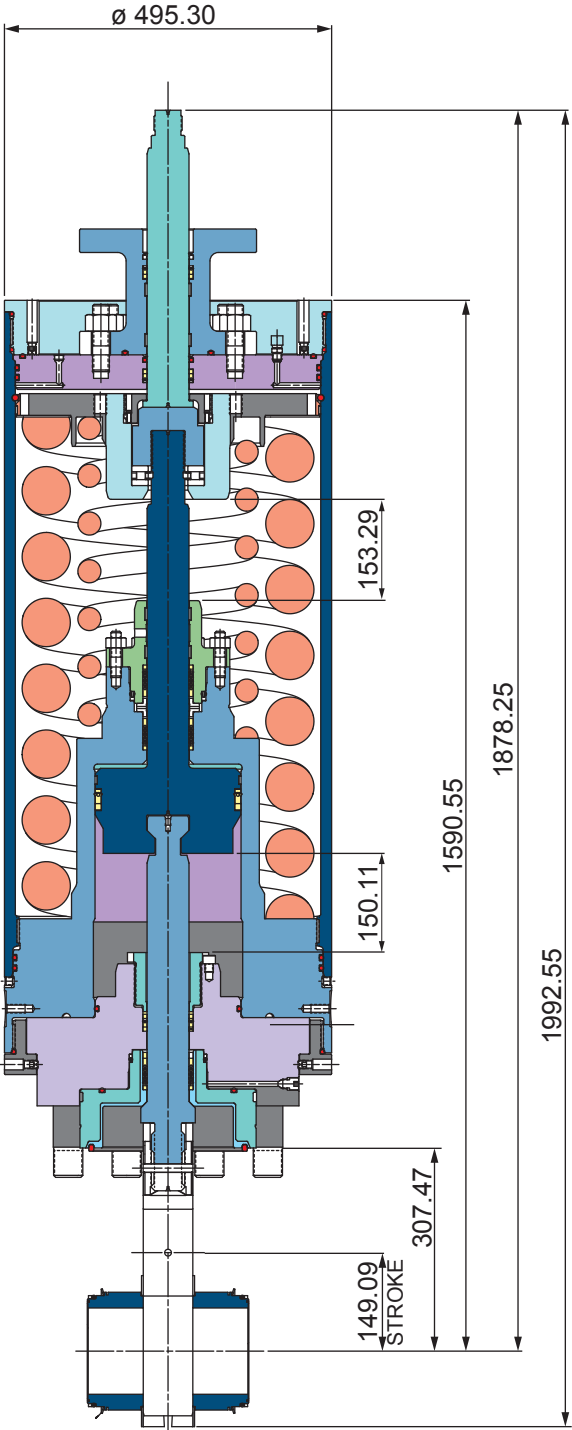
Torus IV connector



2 1/16" - 10K Gen1 E3 Actuator

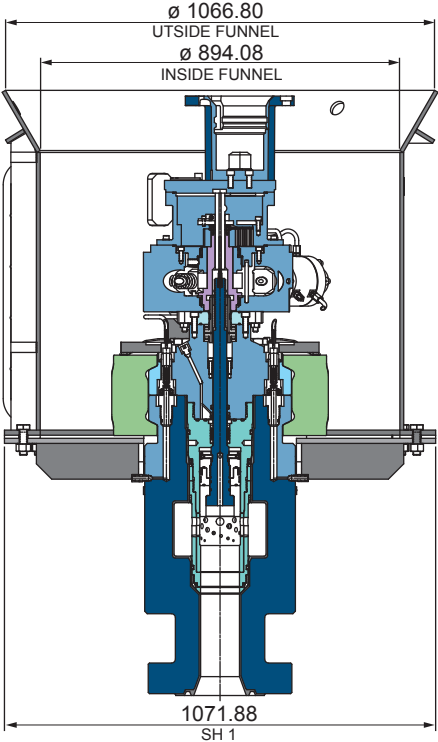


5 1/8" - 10K Gen1 E3 Actuator

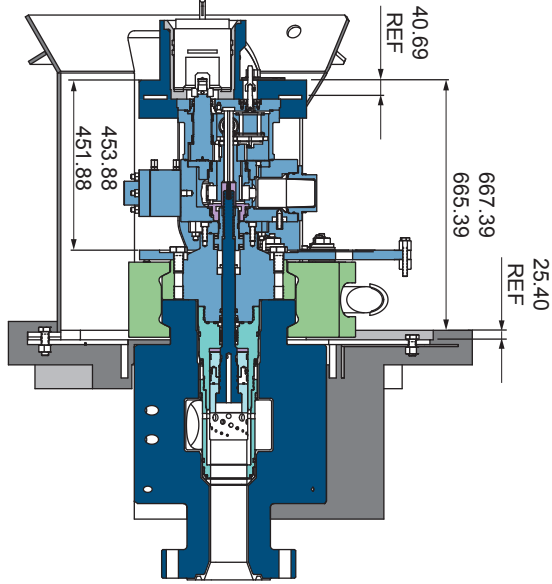


EGINA 86

Choke Insert
WATER INJECTION XT



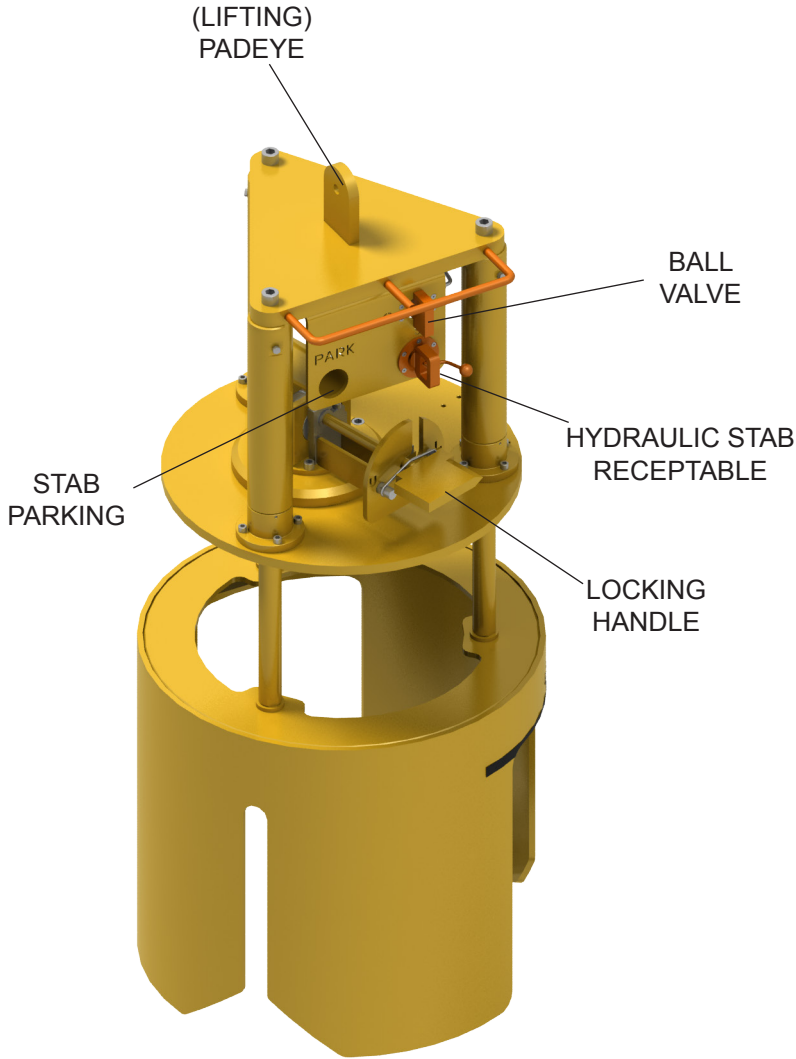
PRODUCTION XT



NG-EGN-33-FMEC-004476

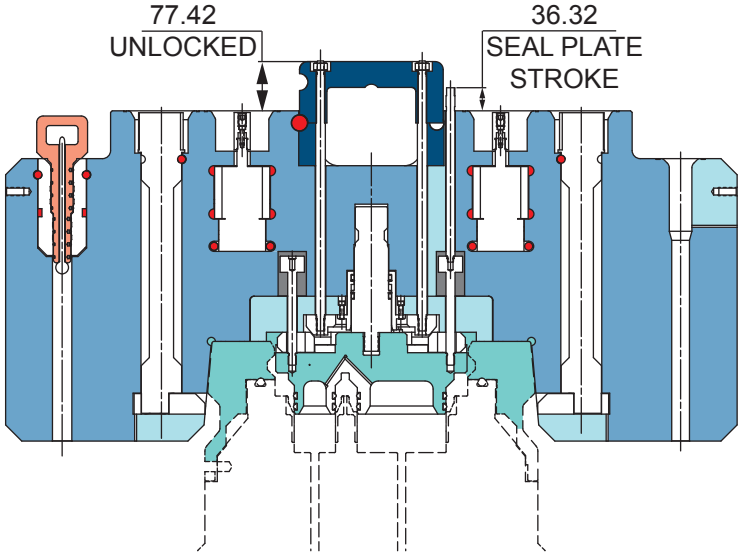
EGINA 87

Choke Insert Running Tool

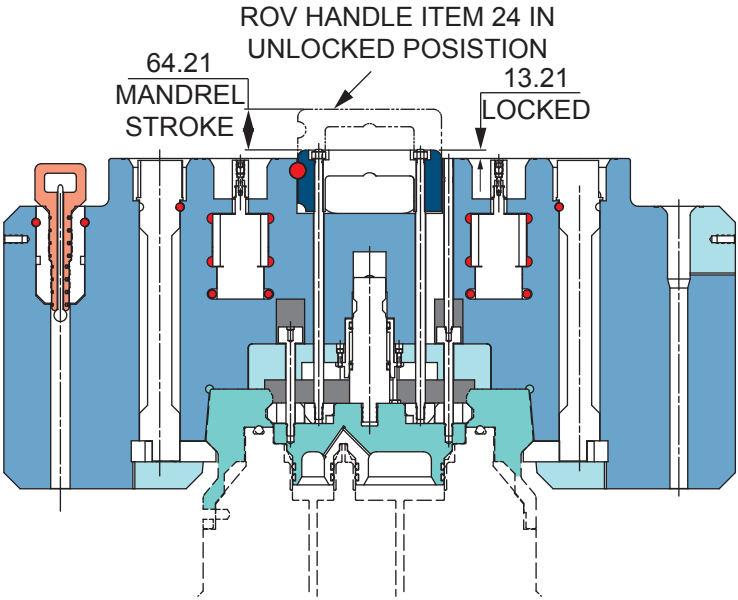


NG-EGN-32-FMEC-004184
EGINA 88

ROV Installed Tree Cap



TREE CAP LANDED ON TEST STUMP/XMAS TREE ASSY.
SEAL PLATE NOT STROKED, LOCKING DOGS DISENGAGED,
LOCKDOWN DOGS DISENGAGED.

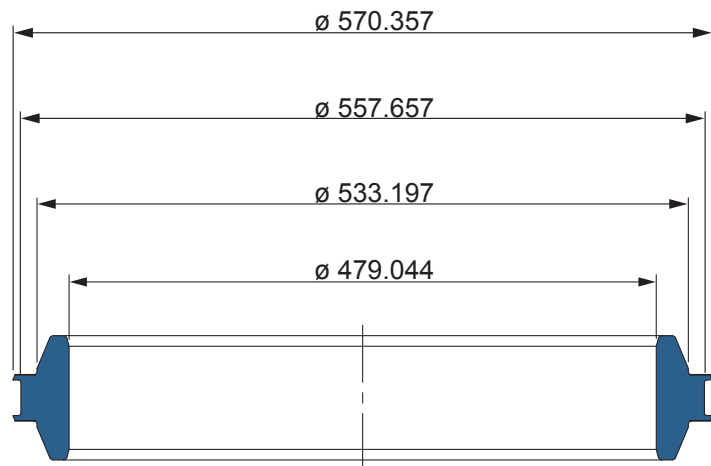


TREE CAP LANDED, SEAL PLATE STROKED.
LOCKING DOGS ENGAGED, LOCKDOWN DOGS ENGAGED.

NG-EGN-34-FMEC-005709
EGINA 89

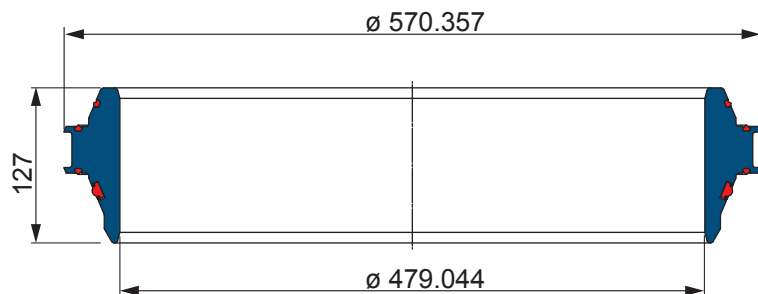
18-3/4" VX Gasket and Contingency Gasket

VX Gasket



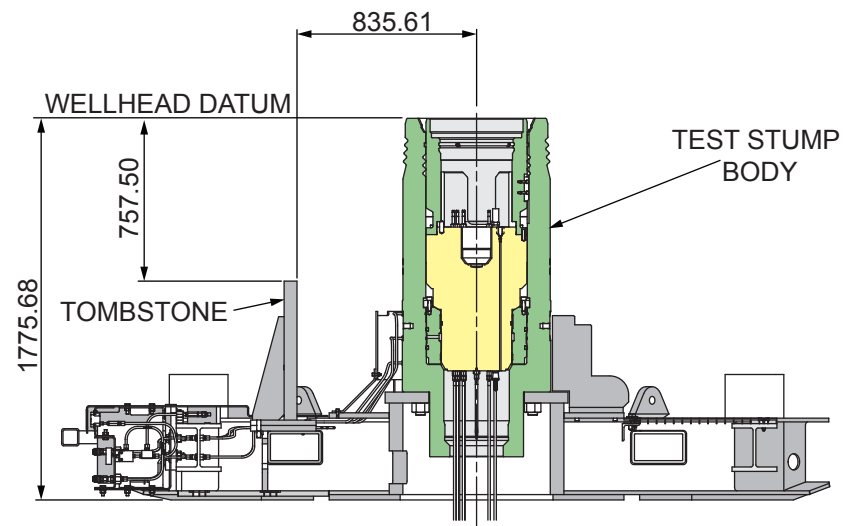
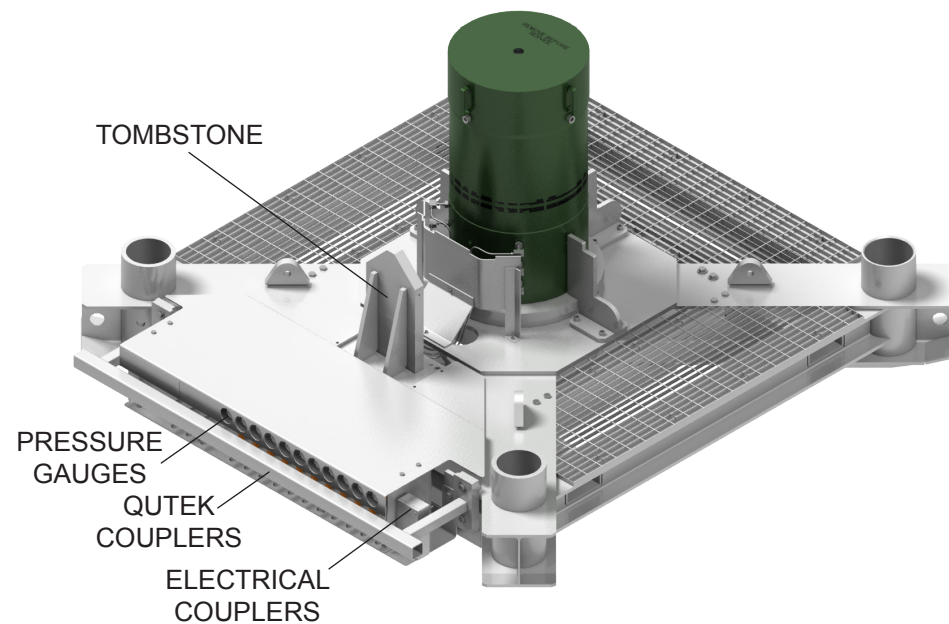
NG-EGN-32-FMEC-004212

Contingency Gasket



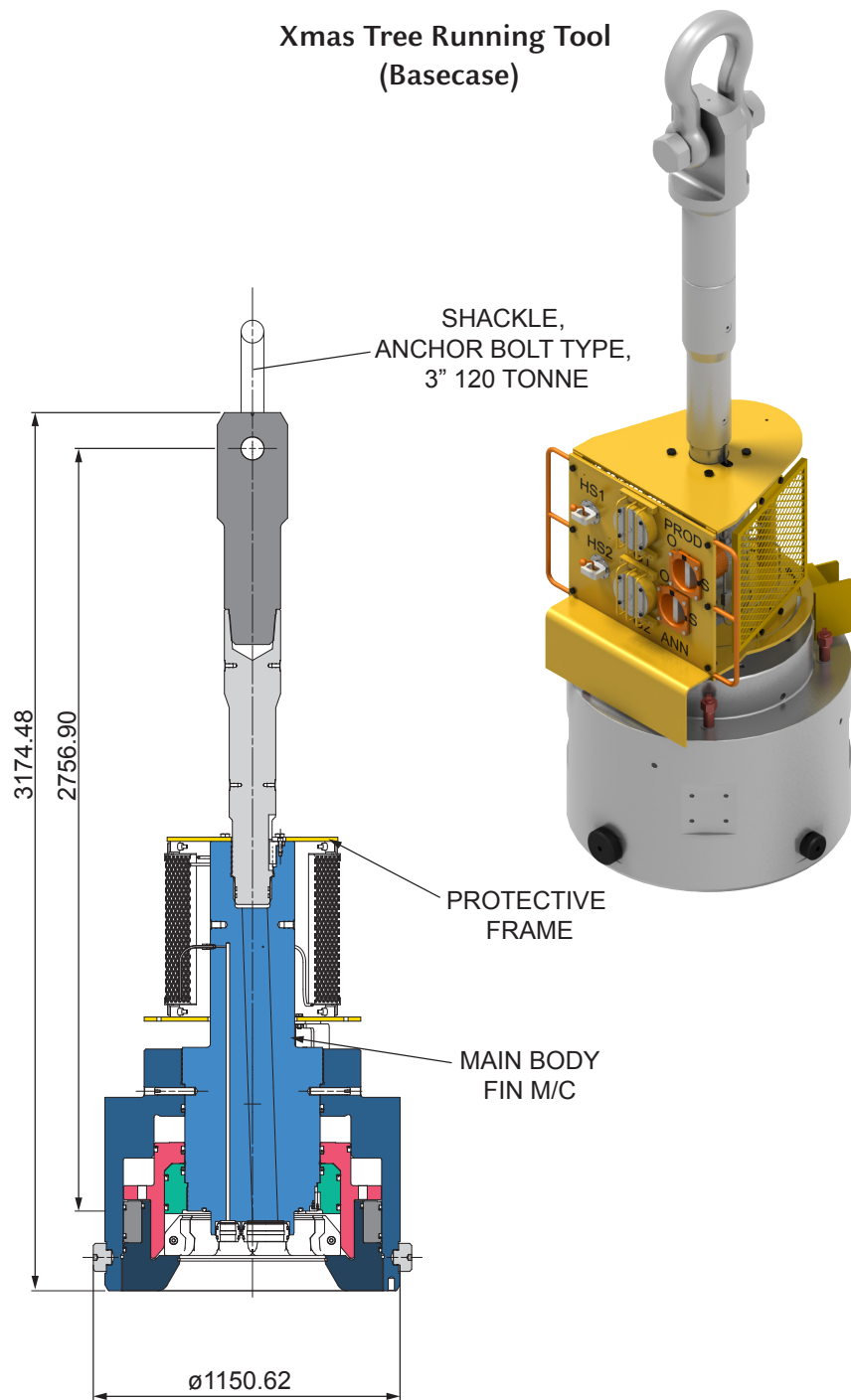
NG-EGN-32-FMEC-000963

Xmas Tree Test Stump w/ VX profile



NG-EGN-34-FMEC-003763

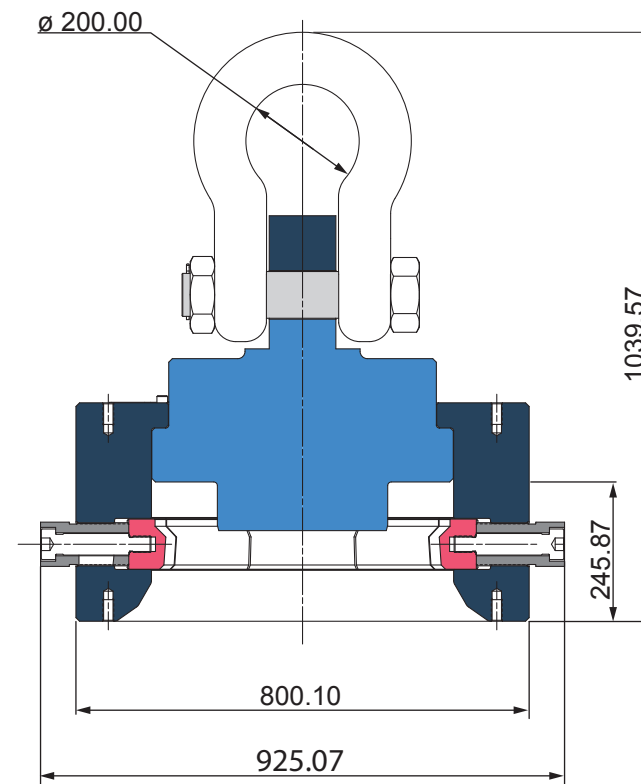
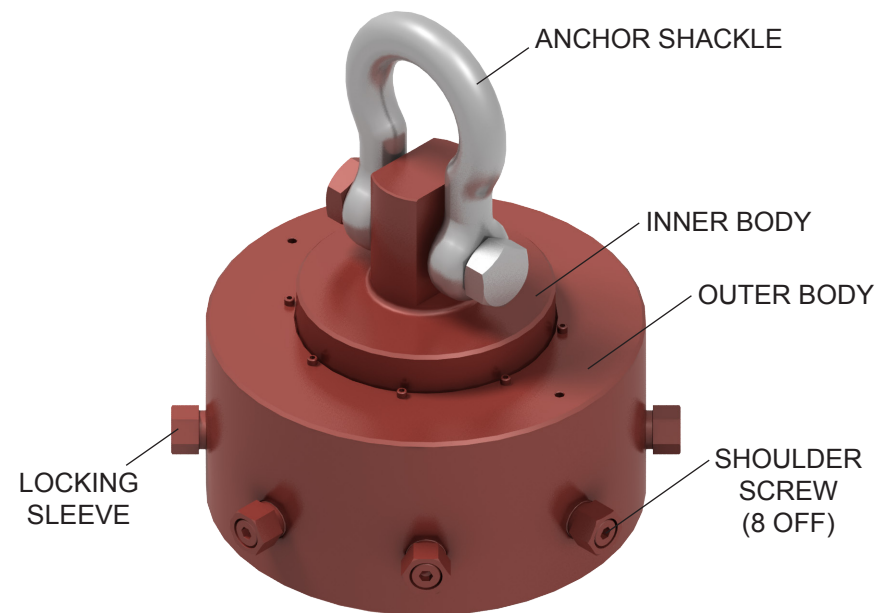
Xmas Tree Running Tool (Basecase)



NG-EGN-32-FMEC-004219

EGINA 92

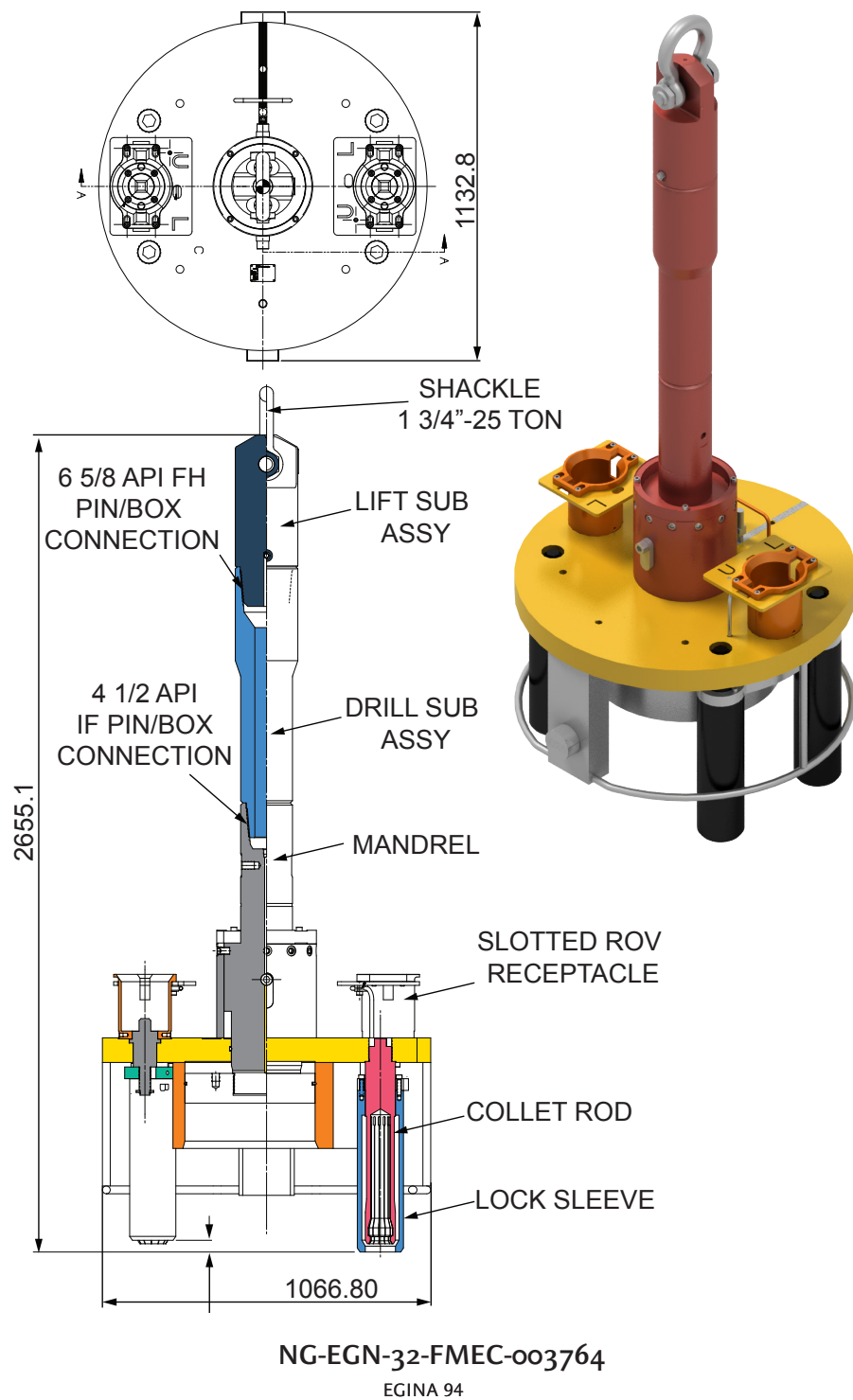
Xmas Tree Handling Tool



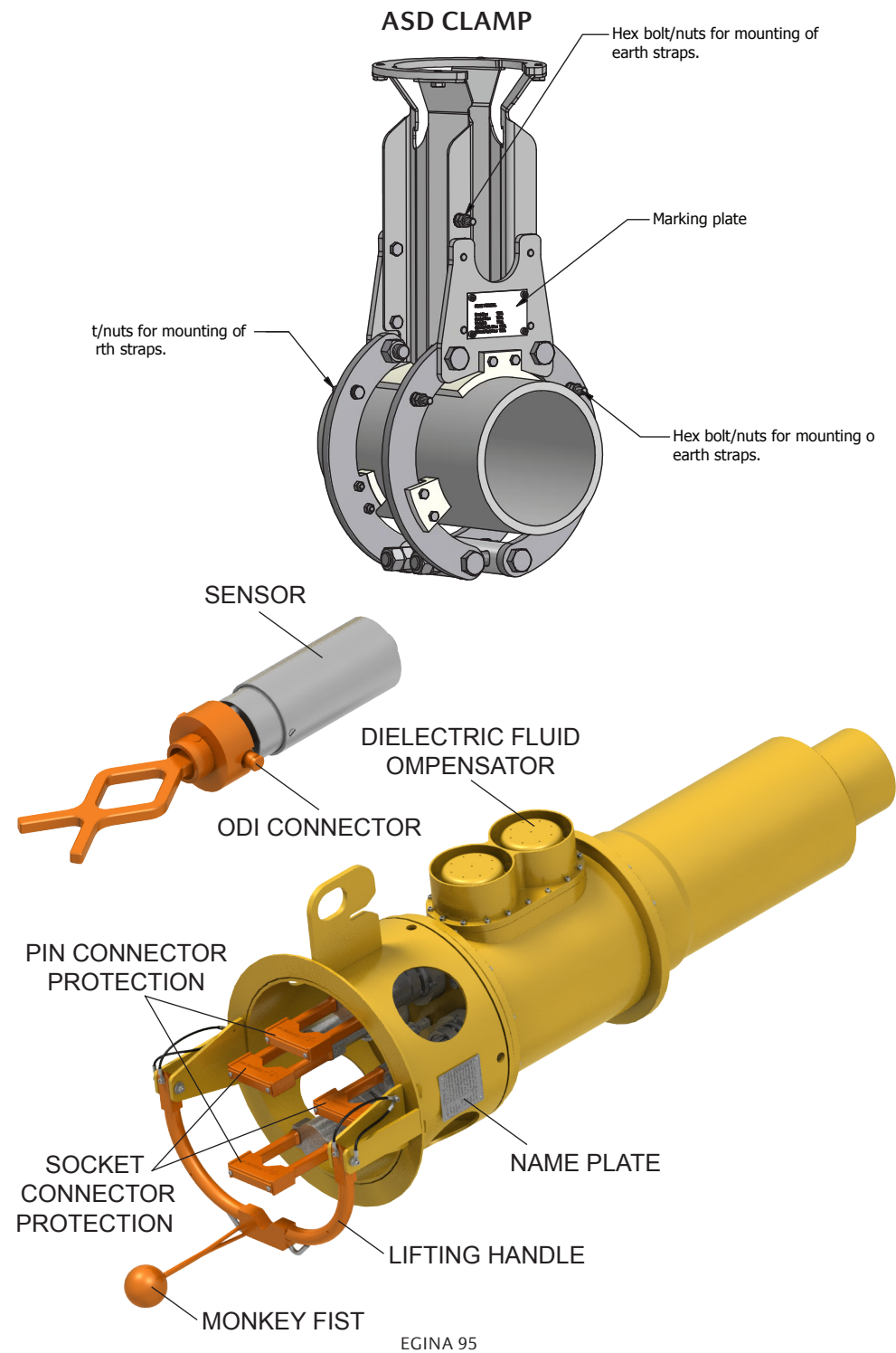
NG-EGN-32-FMEC-003765

EGINA 93

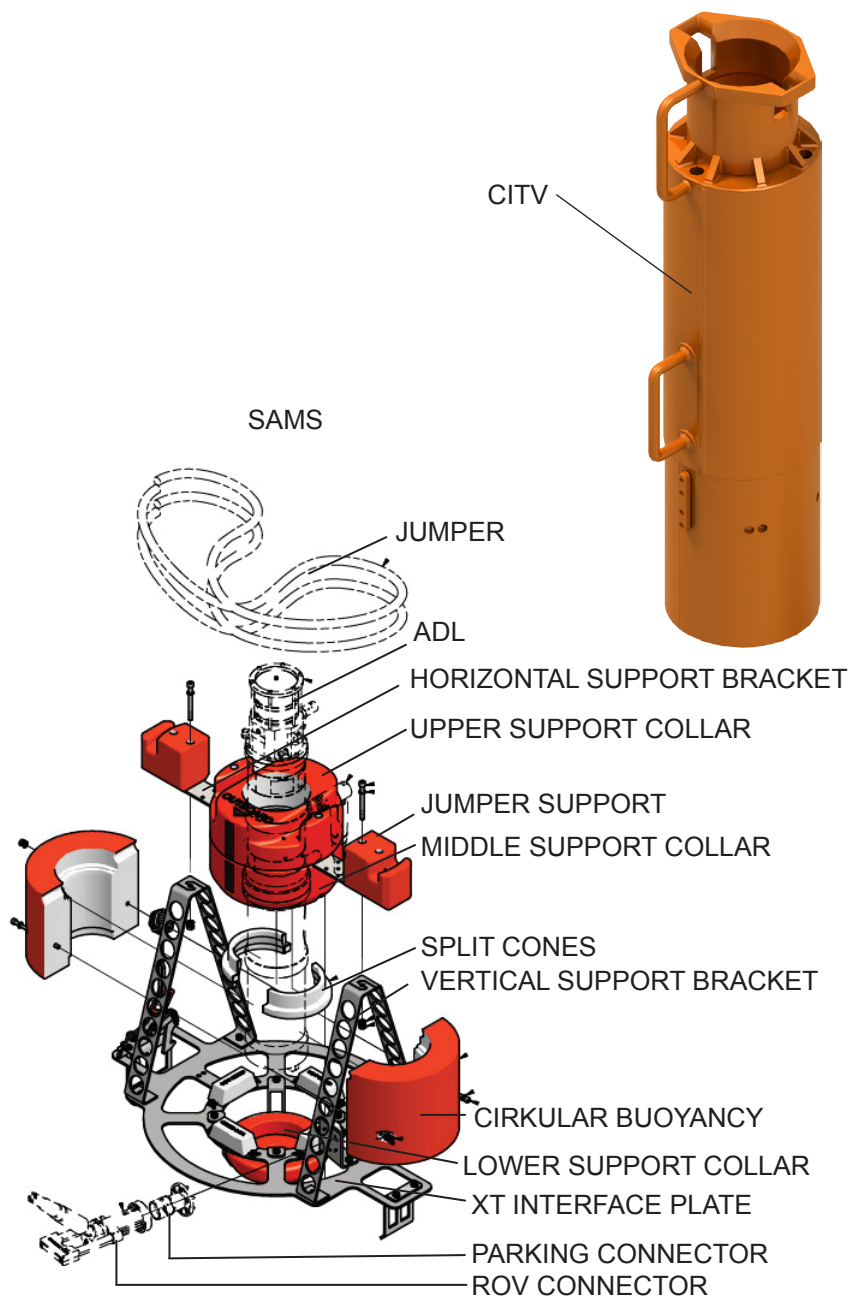
Mechanical Release Tool f/ Xmas Tree



Acoustic Sand Detector (ASD) and Downhole Interface Unit (DIU)

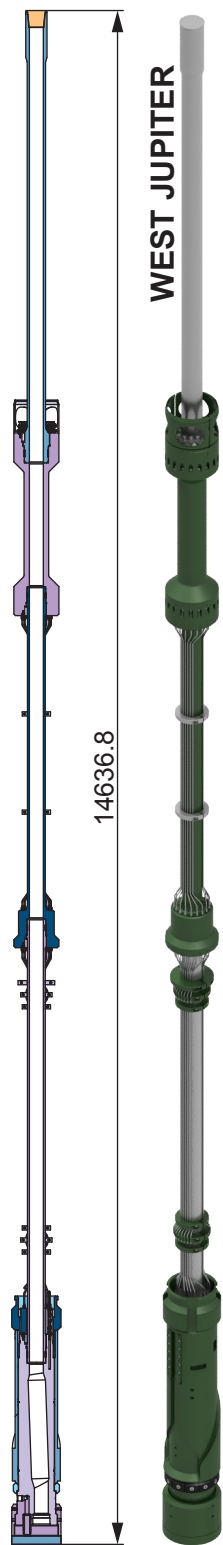


Chemical Injection Throttle Valve (CITV) and Subsea Acoustic Monitoring System (SAMS)

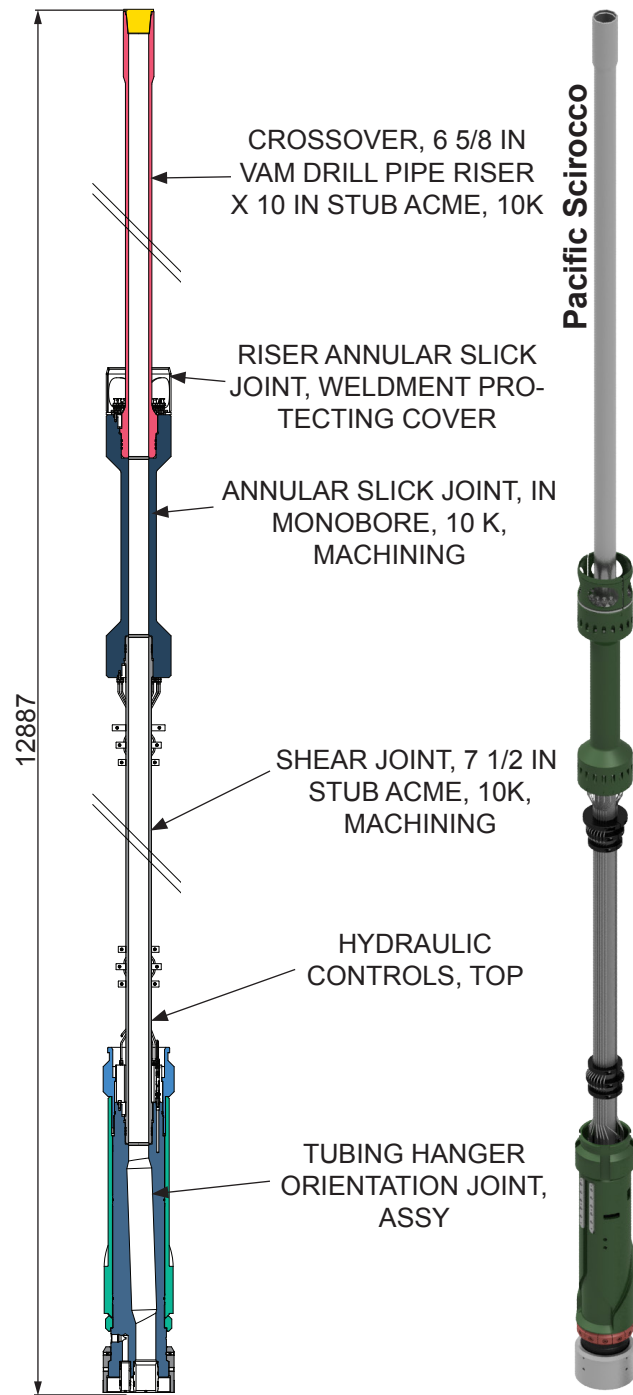


**Xmas Tree, SCM and field location,
blank table, to be filled in by hand after installation**

[illegible]

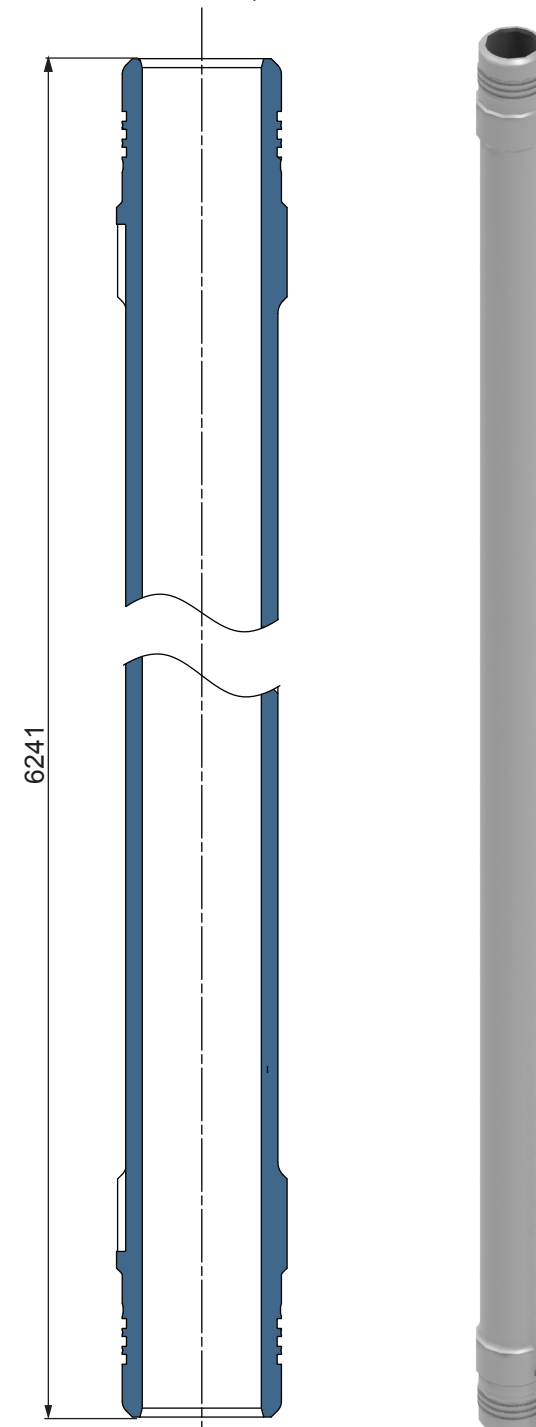


Simplified Landing String (SLS)



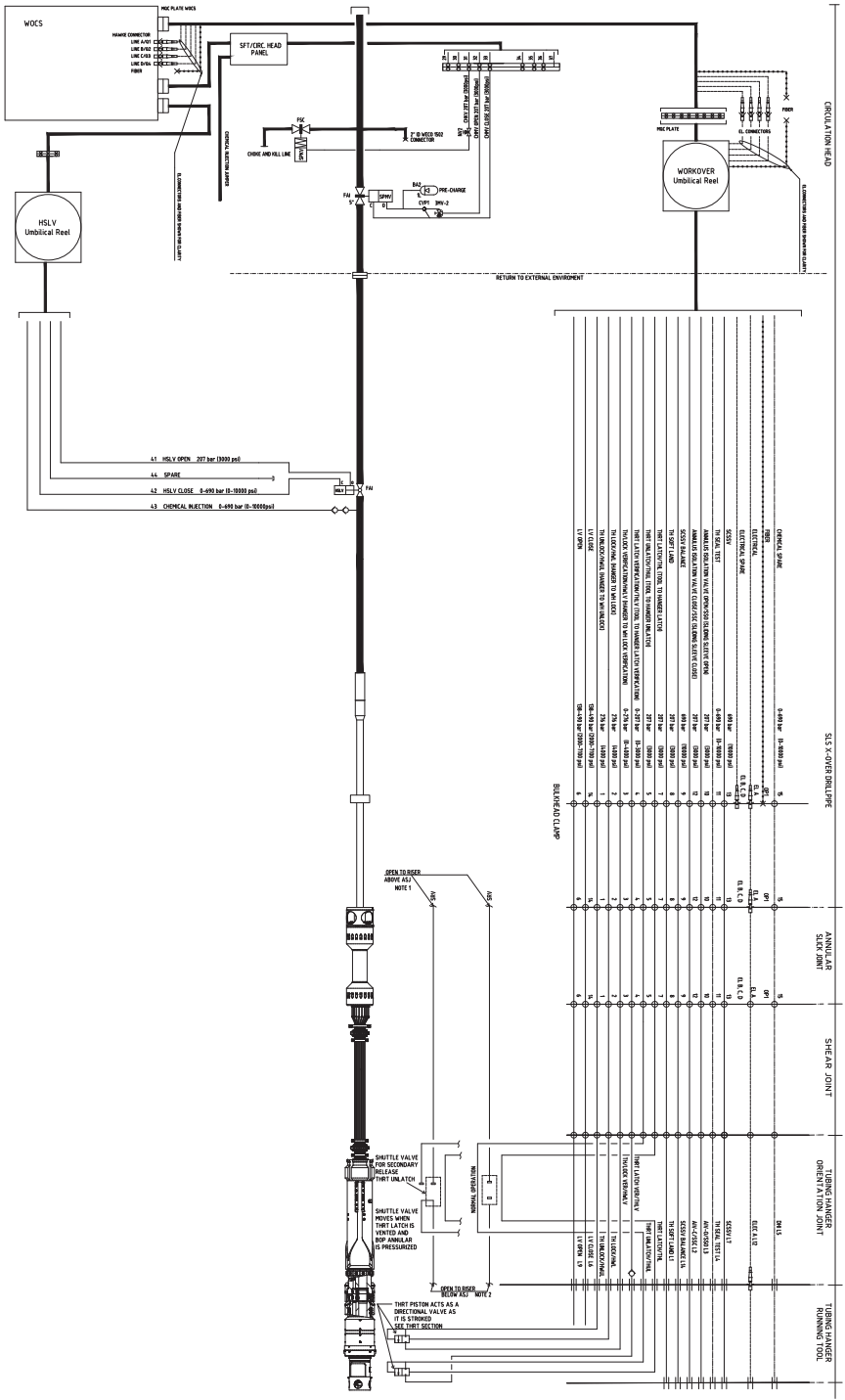
EGINA 98

SLS Shear Joint



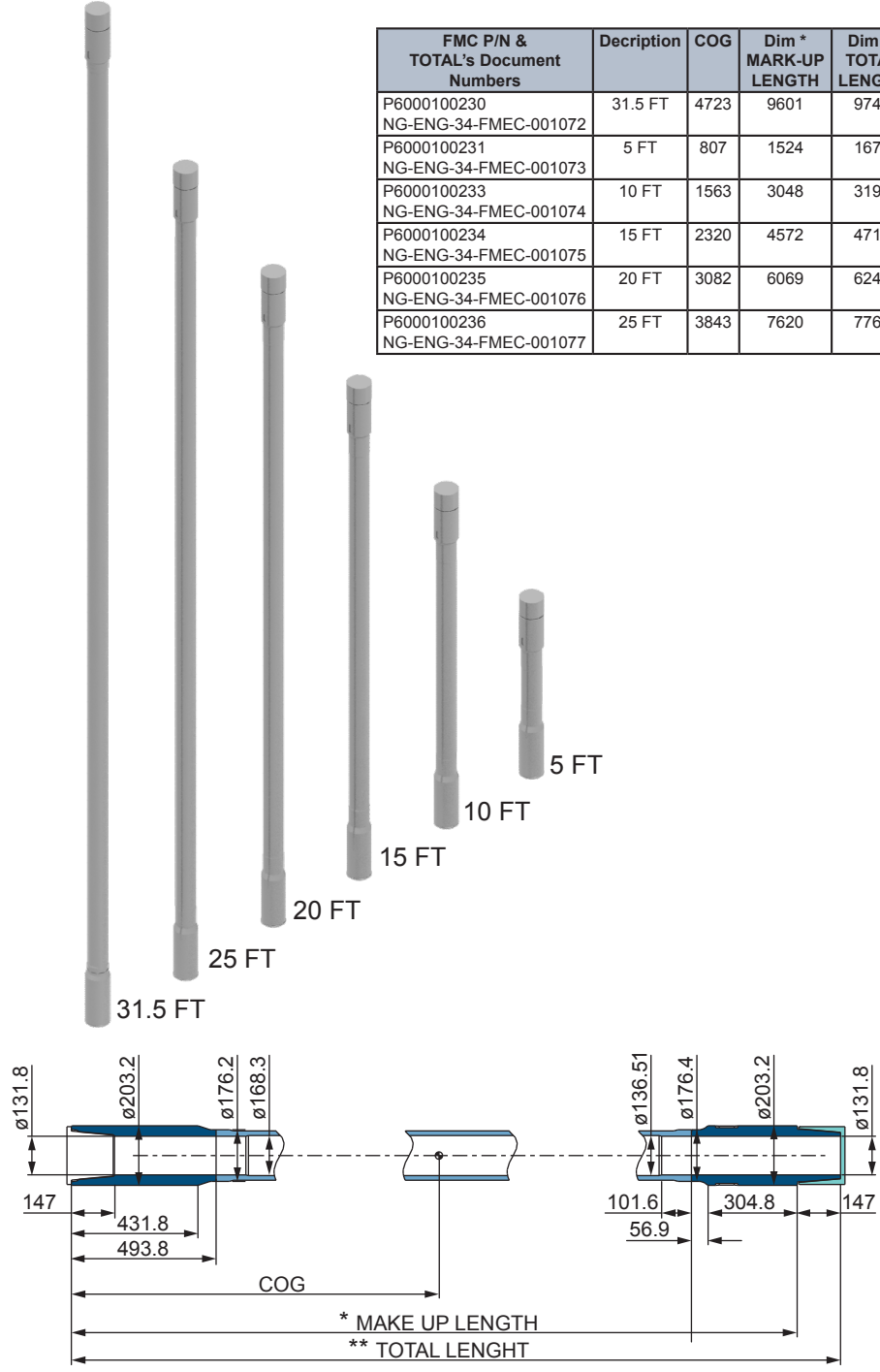
EGINA 99

SLS System Schematic



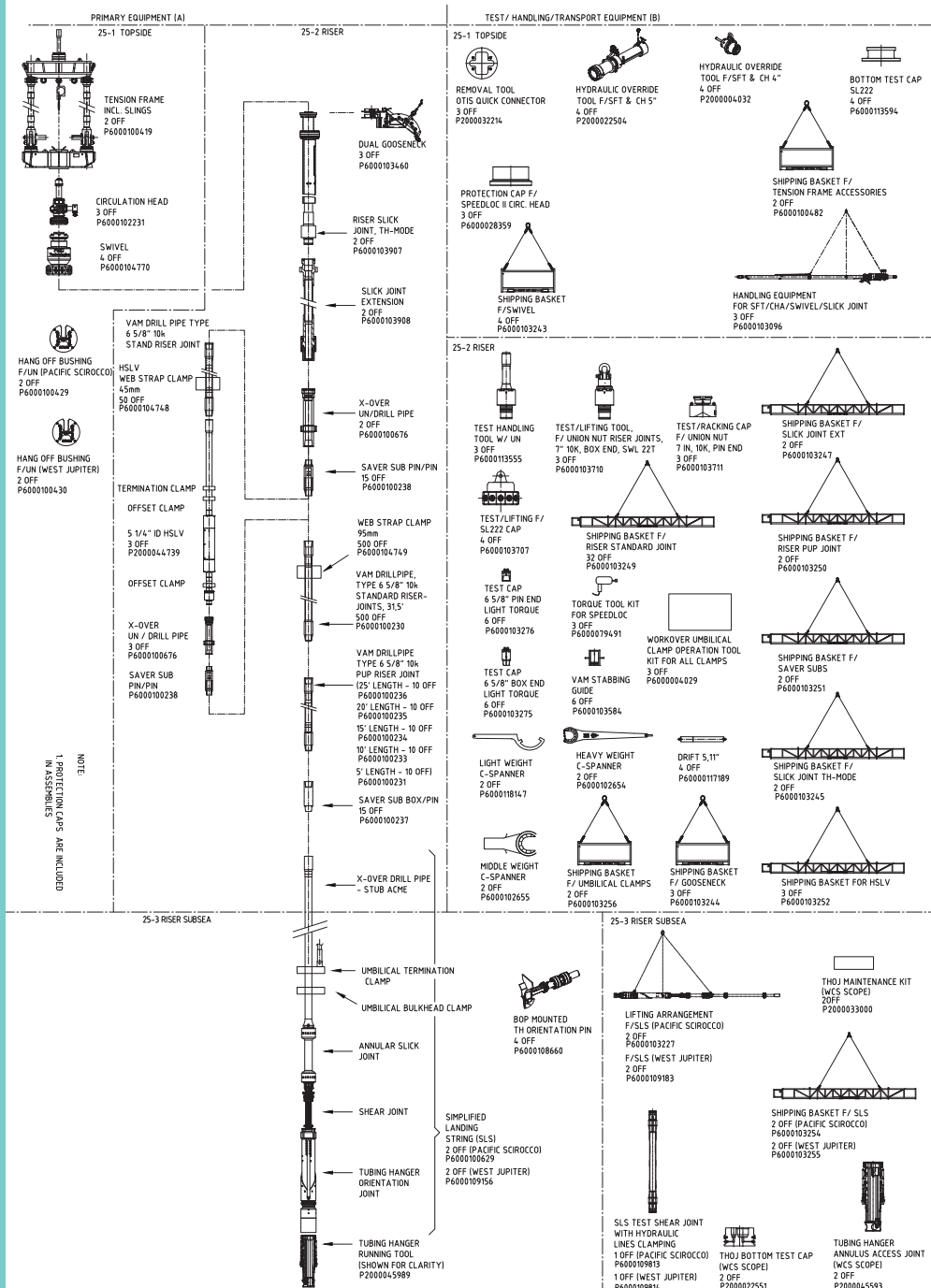
NG-EGN-34-FMEC-000003
EGINA 100

Riser Joints



EGINA 101

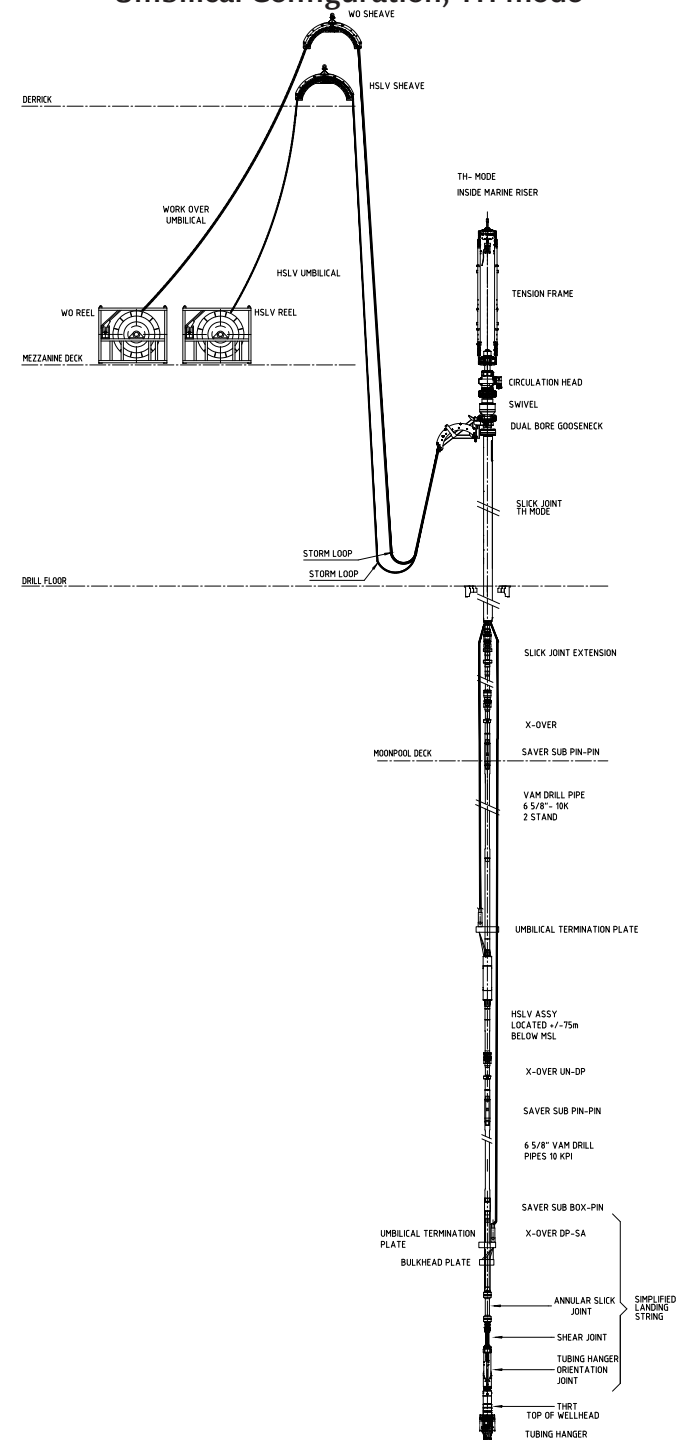
WO Riser Arrangement from CHA to THRT in TH mode



NG-EGN-34-FMEC-000002

EGINA 102

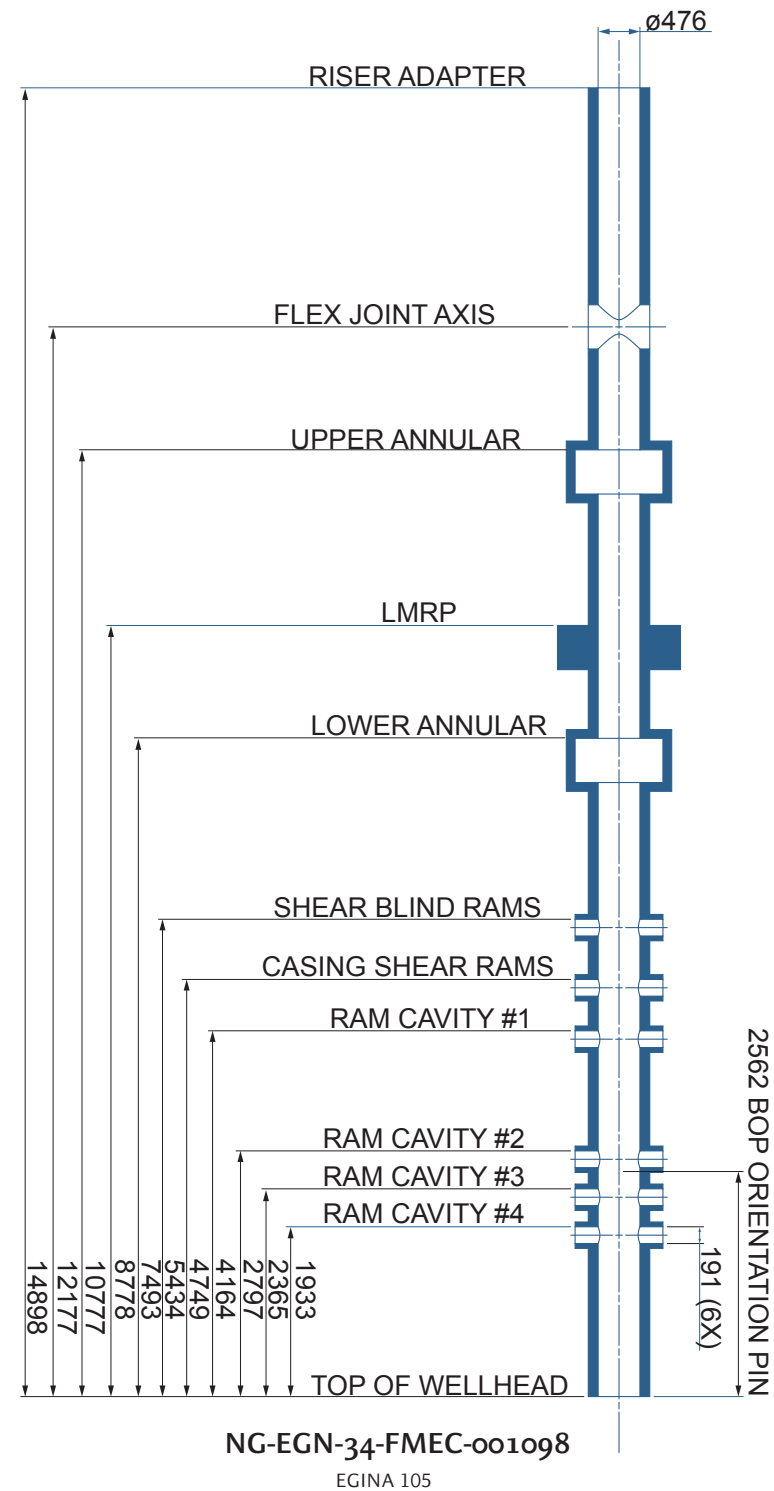
Umbilical Configuration, TH mode



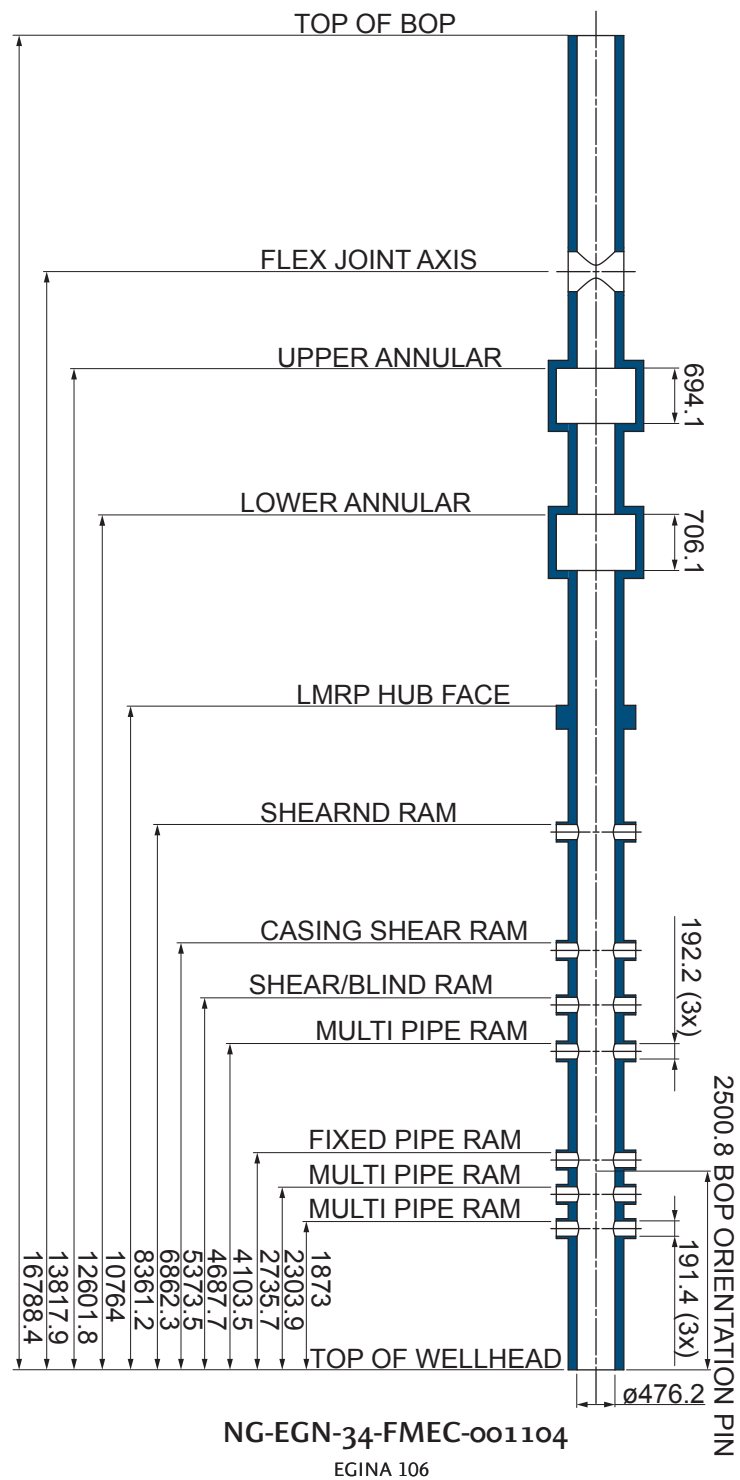
NG-EGN-34-FMEC-002630

EGINA 103

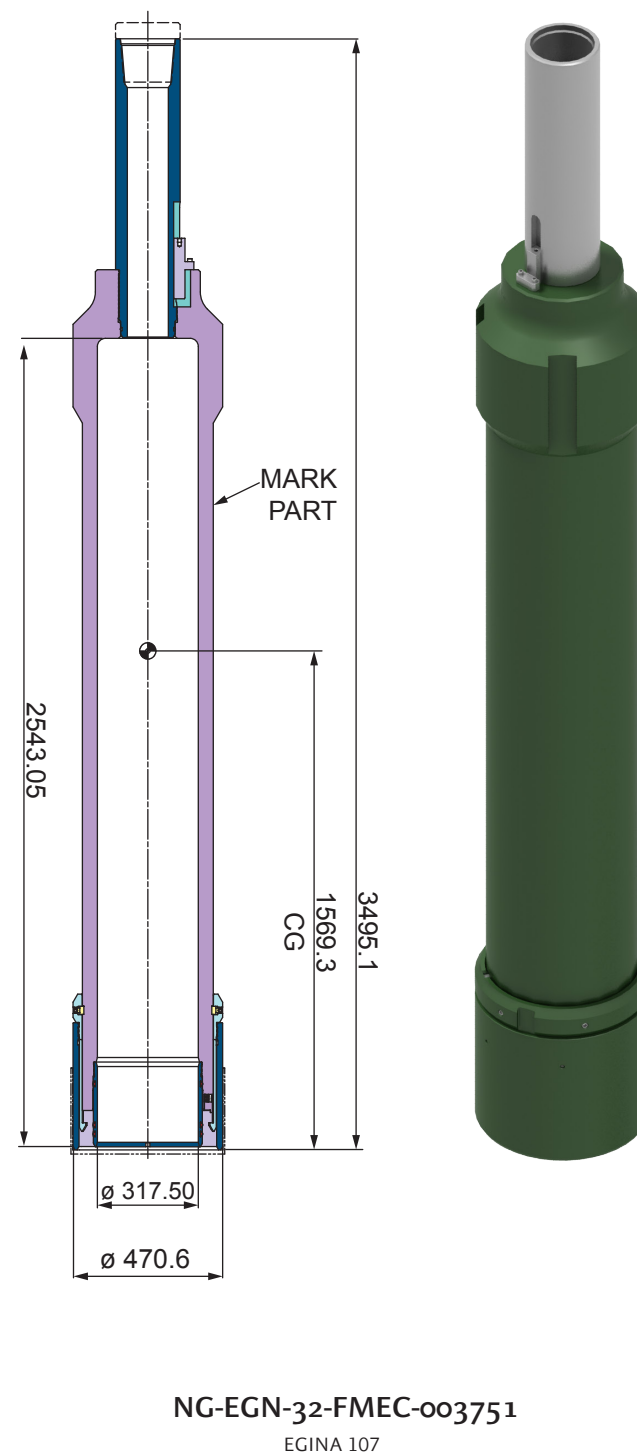
Stack-up elevations, Pacific Scirocco



Stack-up elevations, West Jupiter

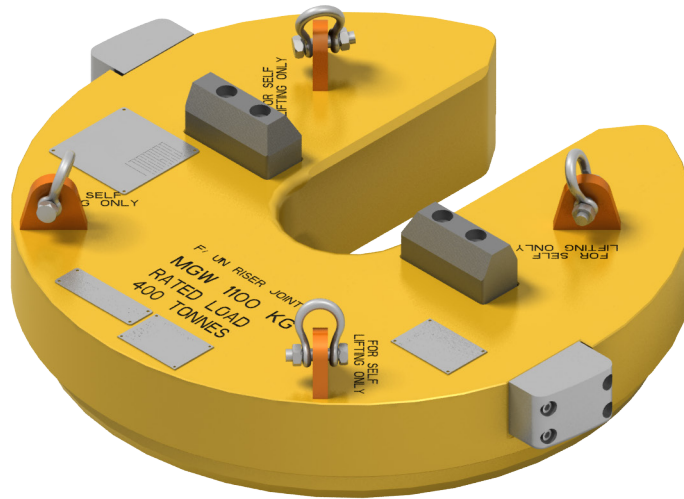


THOJ Overshot Tool

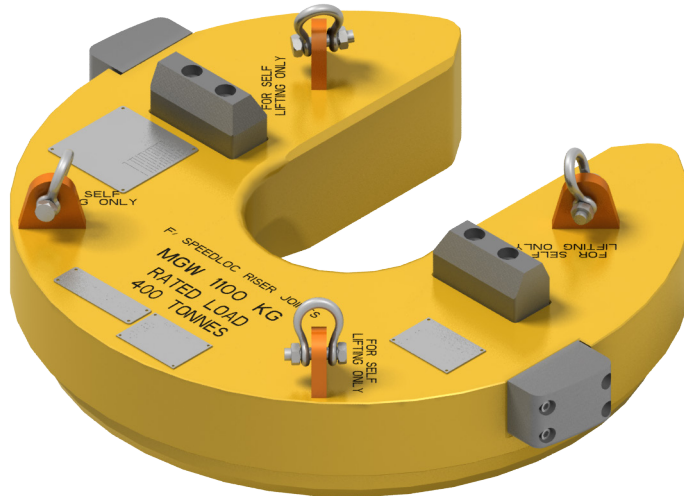


Hang off bushing TH & XT mode

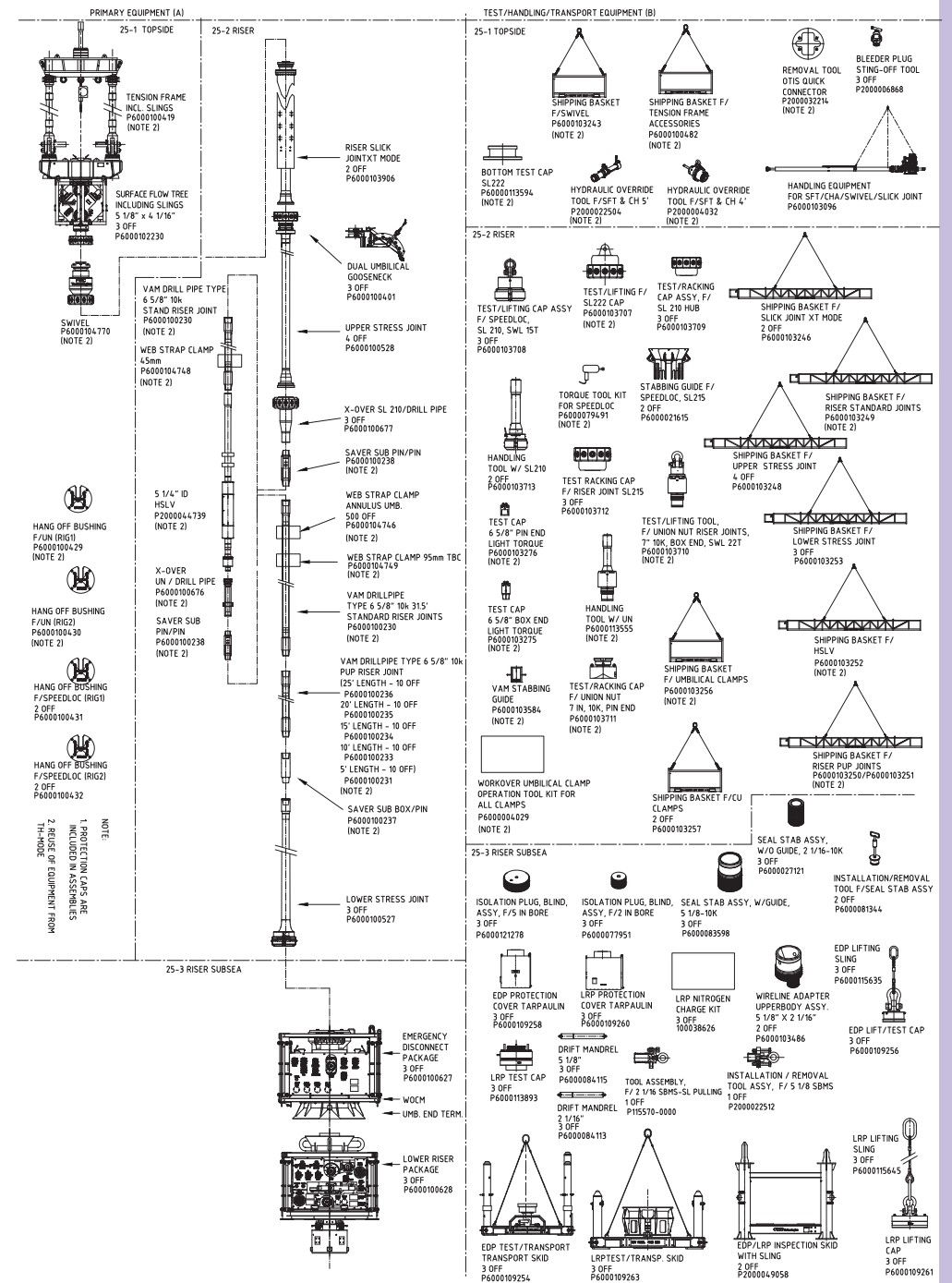
Hang off bushing TH mode



Hang off bushing XT mode



2D WO Riser Arrangement from SFT to LRP in XT Mode

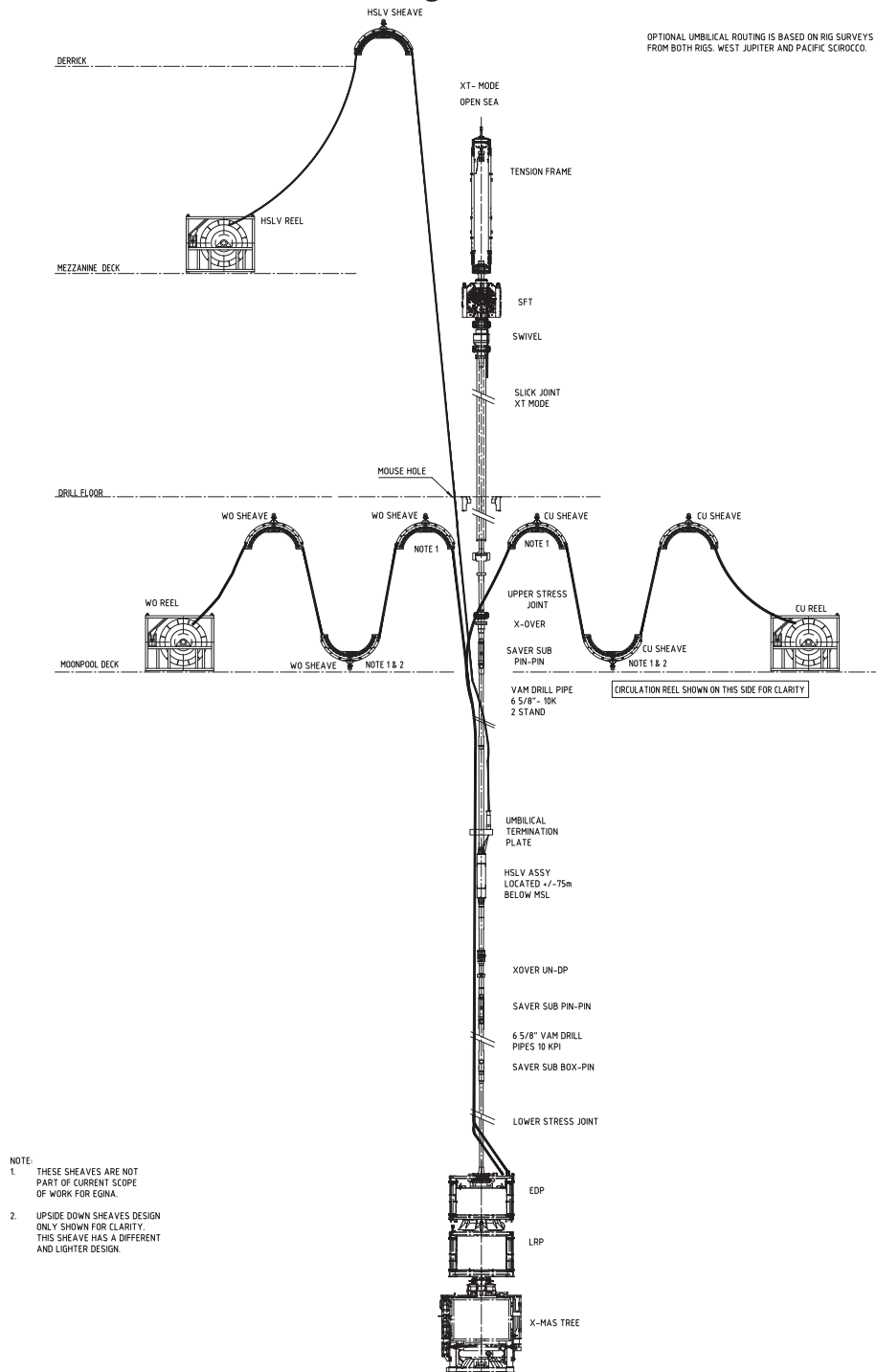


NG-EGN-34-FMEC-000002

EGINA 109

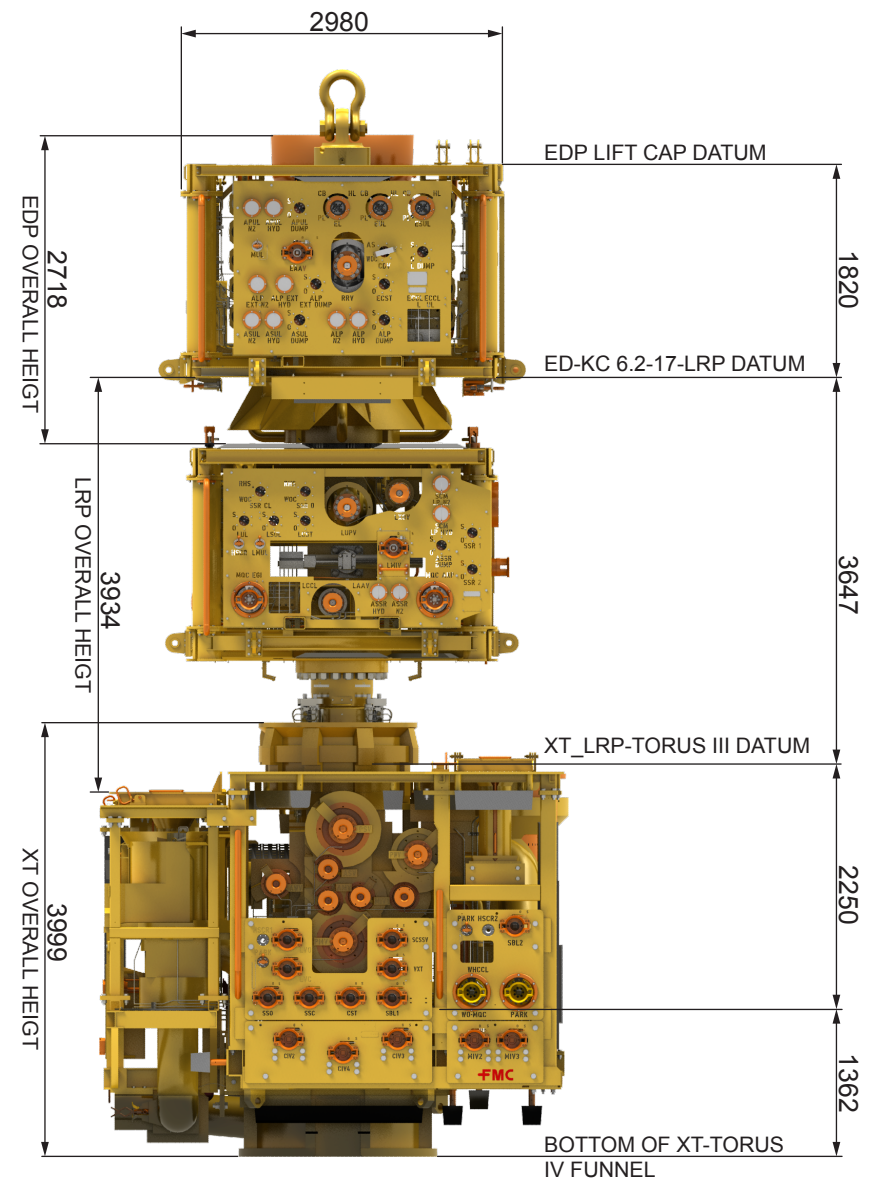
EGINA 108

Umbilical Configuration, XT Mode



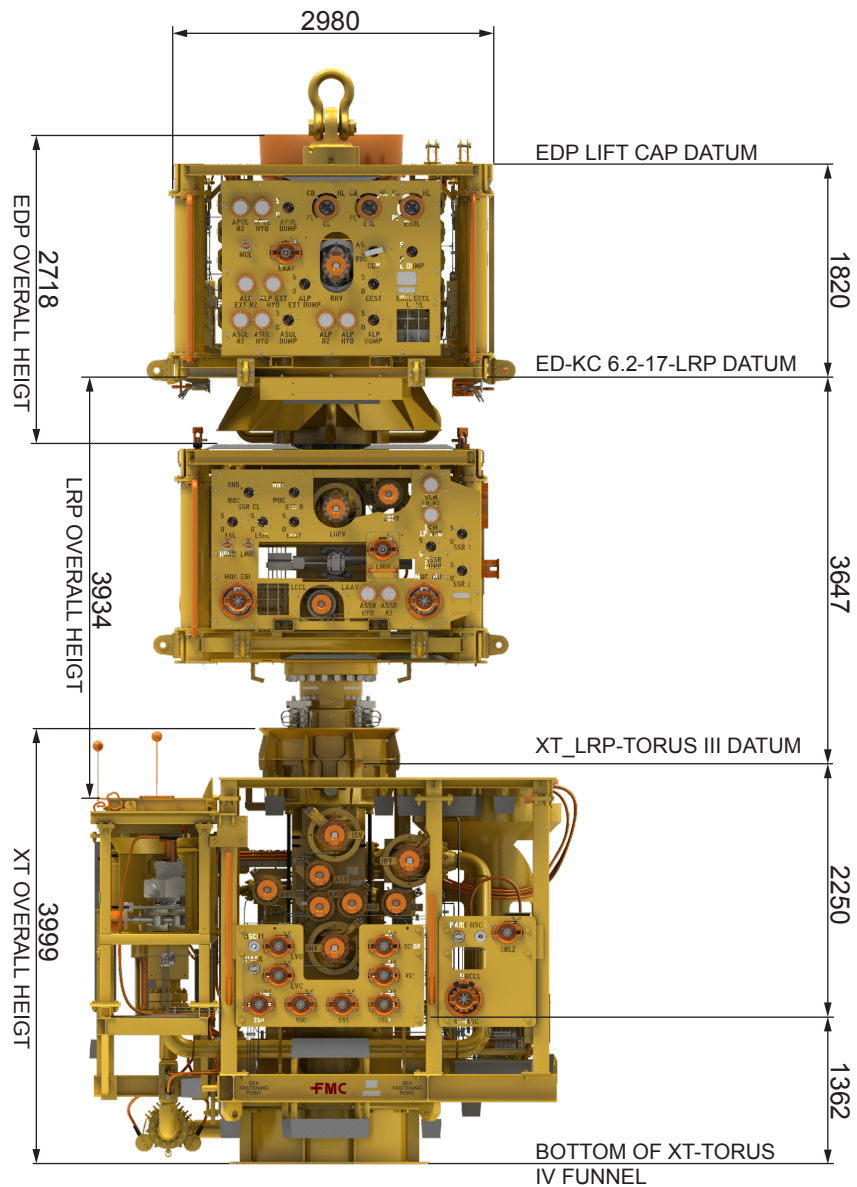
NG-EGN-34-FMEC-002630
EGINA 110

EDP/LRP/XT Stack-up, Production



NG-EGN-34-FMEC-000019
EGINA 111

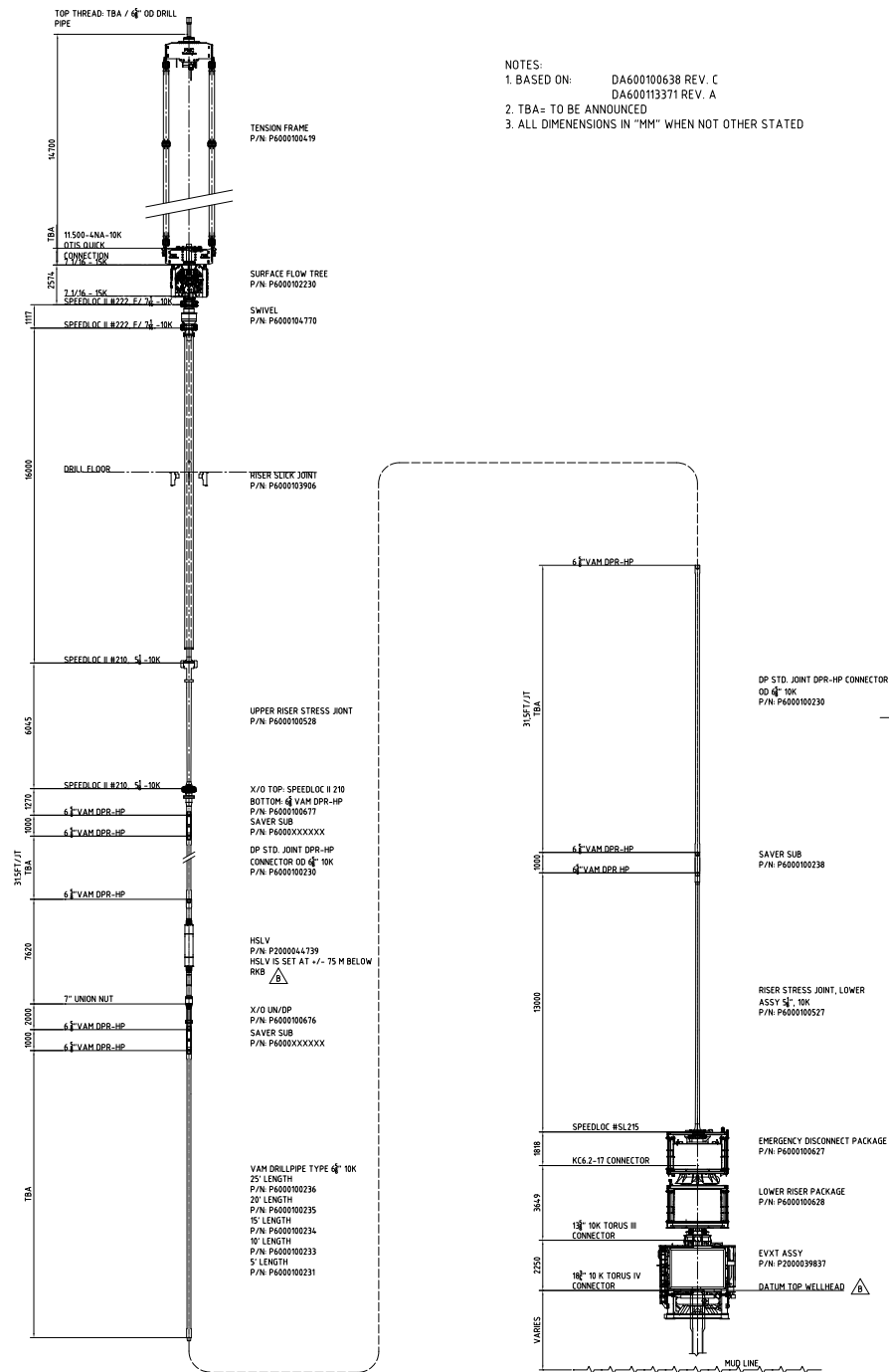
EDP/LRP/XT Stack-up, Injection



NG-EGN-34-FMEC-000019

EGINA 112

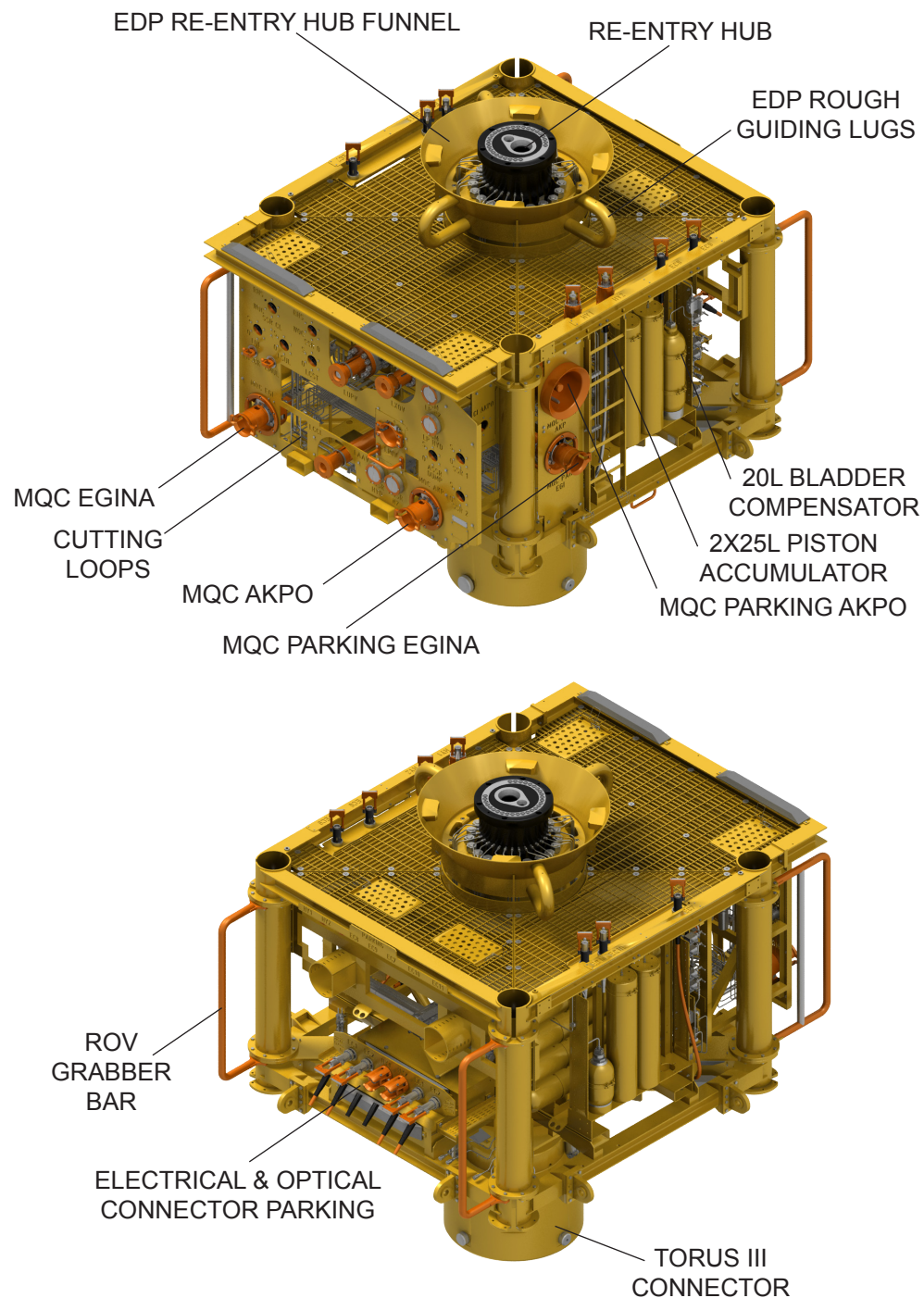
Workover Riser (WOR) arrangement from Tension Frame to XT in Xmas Tree Mode



NG-EGN-34-FMEC-000006

EGINA 113

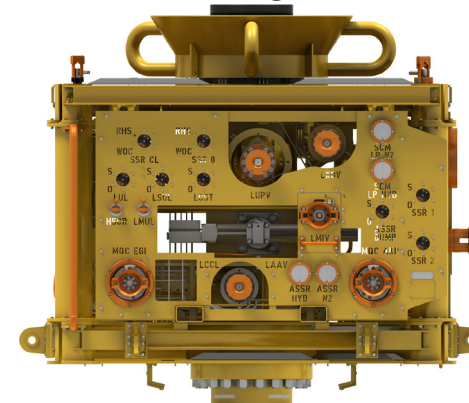
Lower Riser Package (LRP)



NG-EGN-34-FMEC-001109

EGINA 114

Lower Riser Package ROV Panel



Valve Marking	Valve Type	Valve Size	Opening Direction	No. of Turns between pos		A (Nm)		B (Nm)
						Zero Press	Nom. WP	Max DP
LMIV	Gate Valve Bentley	1"	CCW	11+2	11+2	95 - 122	95 - 122	339
LCST	2-way Ball	3/8"	CW	0.25	0.25	10	10	100
SSR 1	2-way Ball	3/8"	CW	0.25	0.25	10	10	100
SSR 2	2-way Ball	3/8"	CW	0.25	0.25	10	10	100
SSR CL	3-way Ball	3/8"	2 pos.	0.25	0.25	10	10	100
SSR O	3-way Ball	3/8"	2 pos.	0.25	0.25	10	10	100
ASSR DUMP	2-way Ball	3/8"	CW	0.25	0.25	10	10	100
LUL	2-way Ball	3/8"	CW	0.25	0.25	10	10	100
LSUL	2-way Ball	3/8"	CW	0.25	0.25	10	10	100
LUPV	Gate Valve	5-1/8"	Hydraulically operated, linear override					
LXOV	Gate Valve	2-1/16"	Hydraulically operated, linear override					
LAHV	Gate Valve	2-1/16"	Hydraulically operated, linear override					

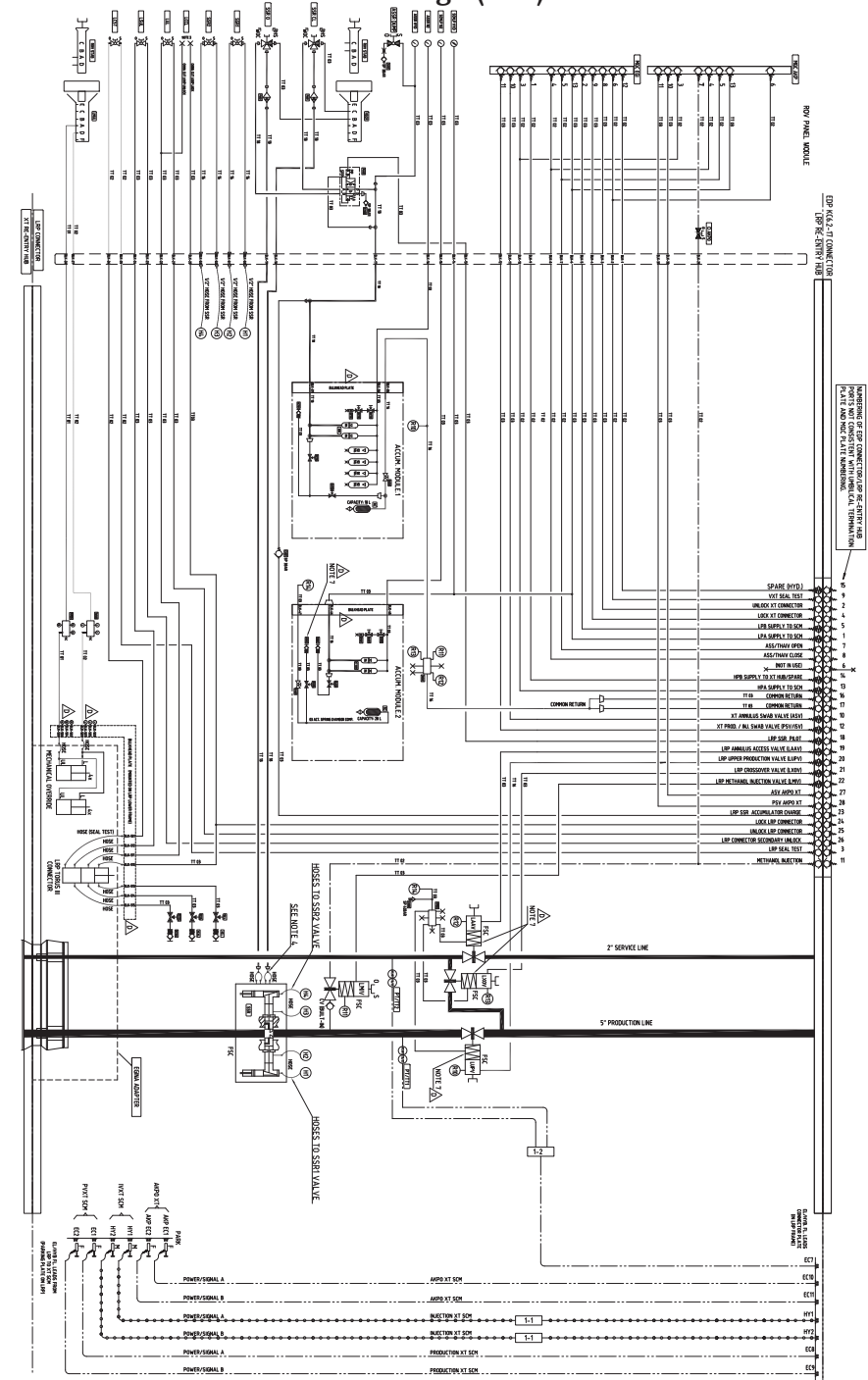
A = Normal operating torque (Nm) without/with differential pressure.

B = Max. allowable torque (Nm).

NG-EGN-34-FMEC-001134

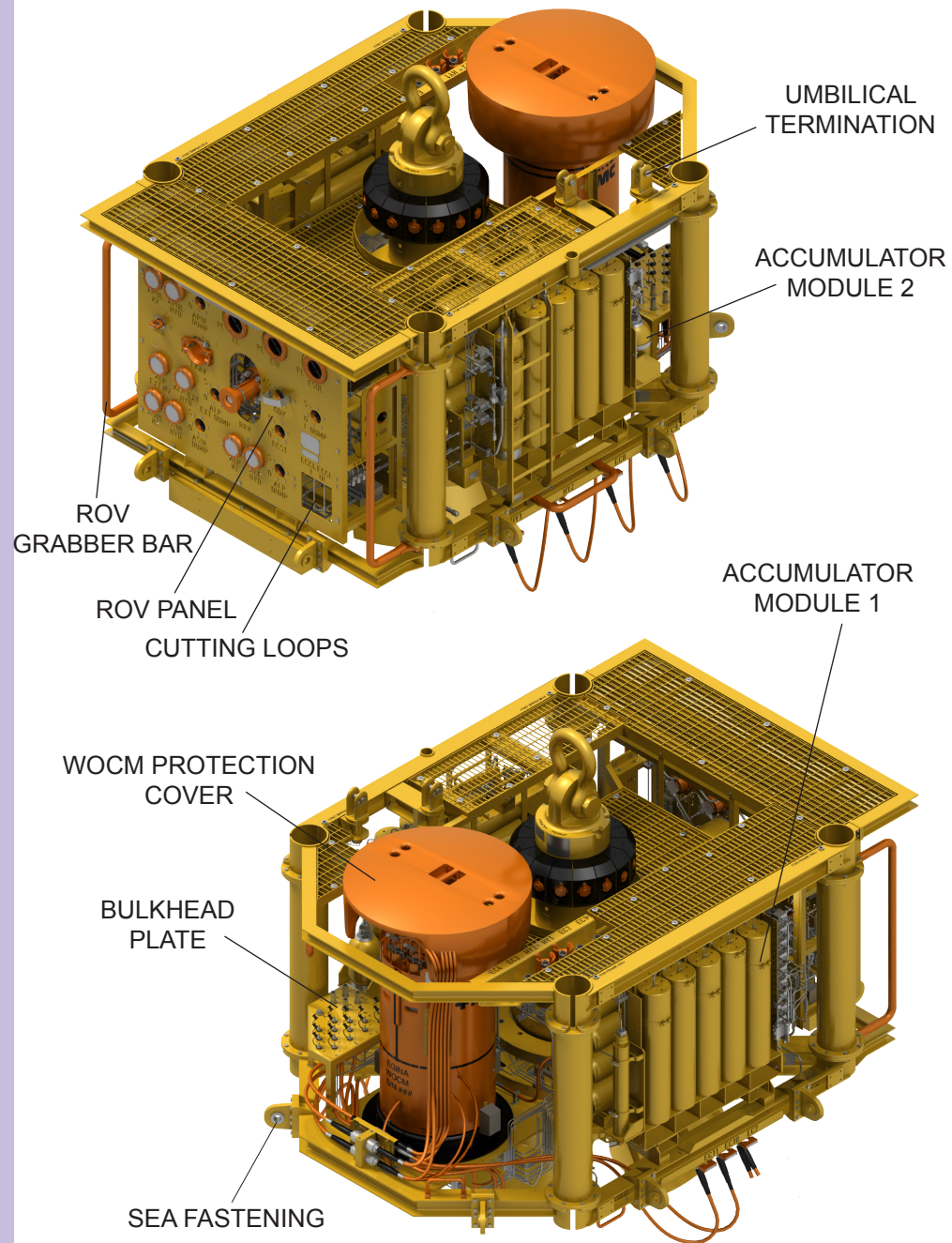
EGINA 115

Lower Riser Package (LRP) schematic



EGINA 117

Emergency Disconnect Package (EDP)



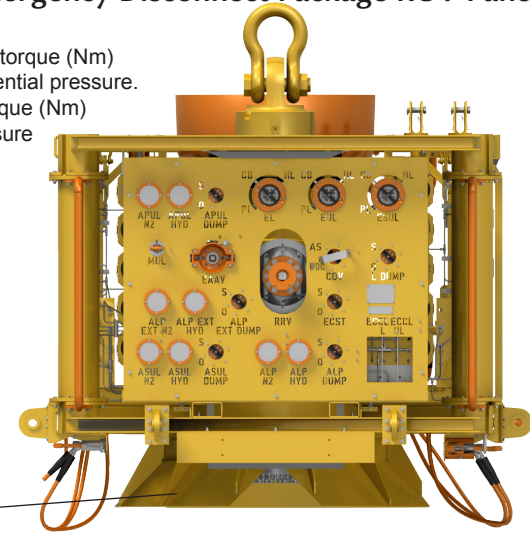
NG-EGN-34-FMEC-001107

EGINA 118

Emergency Disconnect Package ROV Panel

- A = Normal operating torque (Nm)
without/with differential pressure.
B = Max allowable torque (Nm)
at max. diff. pressure
C = Damage torque

RE ENTRY
FUNNEL

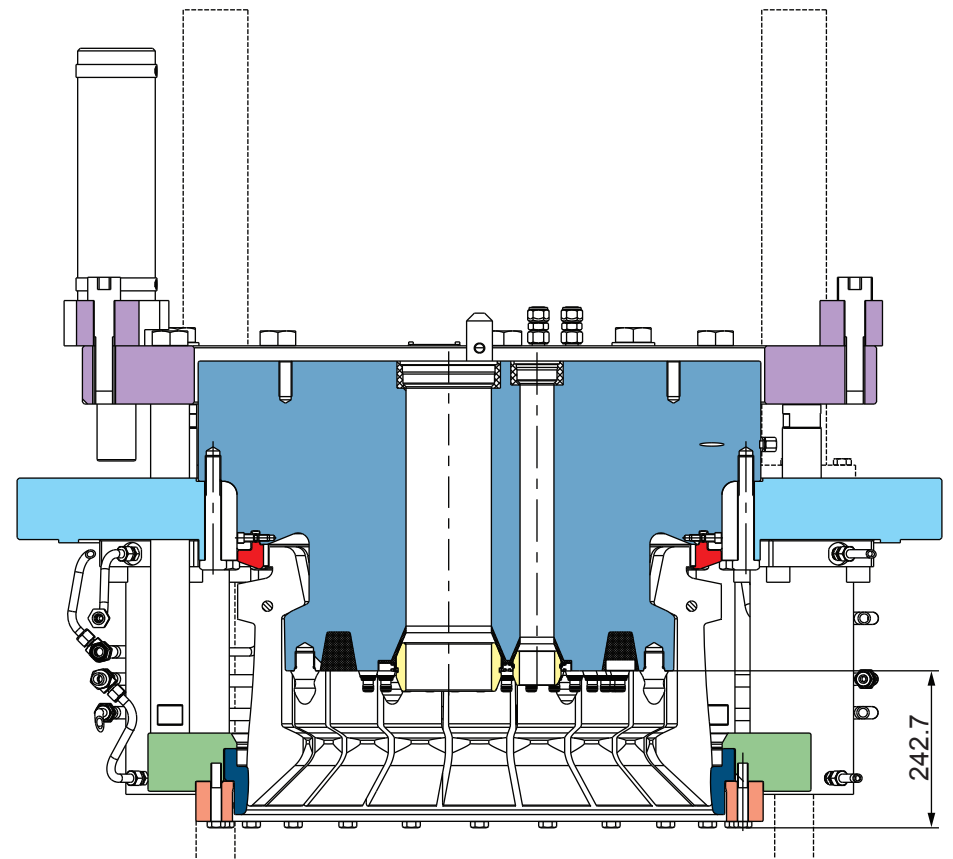


Valve Mark- ing	Valve Type	Valve Size	Opening Direction	No. of Turns		A (Nm)		B (Nm)	C (Nm)
				Open	Closed	0 bar	WP		
CDV	3 Way Ball	3/8"	CW	0.25	0.25		<50	50	50
LSUL	3 Way Ball	3/8"	CW	0.25	0.25		<50	50	50
ECST	2 Way Ball	3/8"	CW	0.25	0.25		<50	50	50
EL	3 Way Ball	3/8"	3pos	0.5	0.5		<50	50	100
EUL	3 Way Ball	3/8"	3pos	0.5	0.5		<50	50	100
ESUL	3 Way Ball	3/8"	3pos	0.5	0.5		<50	50	100
APUL DUMP	2 Way Ball	3/8"	CW	0.25	0.25		<50	50	50
ASUL DUMP	2 Way Ball	3/8"	CW	0.25	0.25		<50	50	50
ALP DUMP	2 Way Ball	3/8"	CW	0.25	0.25		<50	50	50
ALP EXT. DUMP	2 Way Ball	3/8"	CW	0.25	0.25		<50	50	50
L DUMP	2 Way Ball	3/8"	CW	0.25	0.25		<50	50	50
EAAV	Gate Hydraulically operated, Rotary override	1"	CCW	11+2	11+2	94-122	94-122	338	494
RRV	Gate Hydraulically operated, linear override	5-1/8"	Linear movement	Stroke 149.1mm (5.87 in); Maximum load to override 667.2 KN (150,000 lbs)					

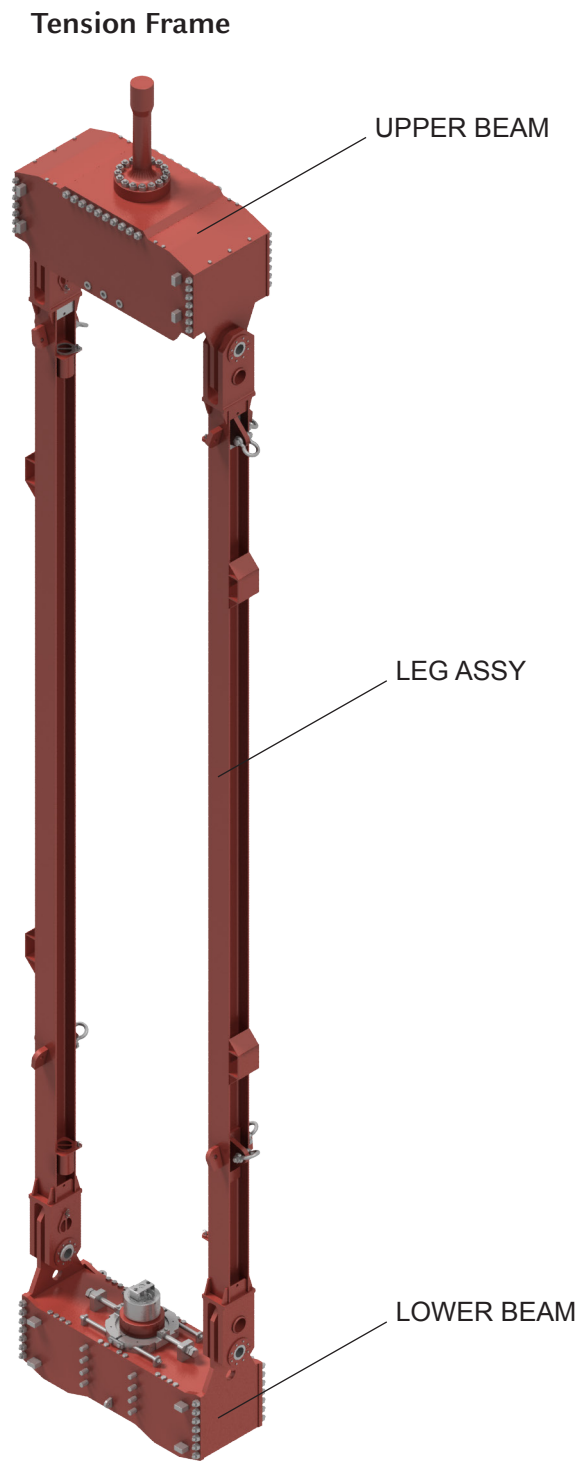
NG-EGN-34-FMEC-005648

EGINA 119

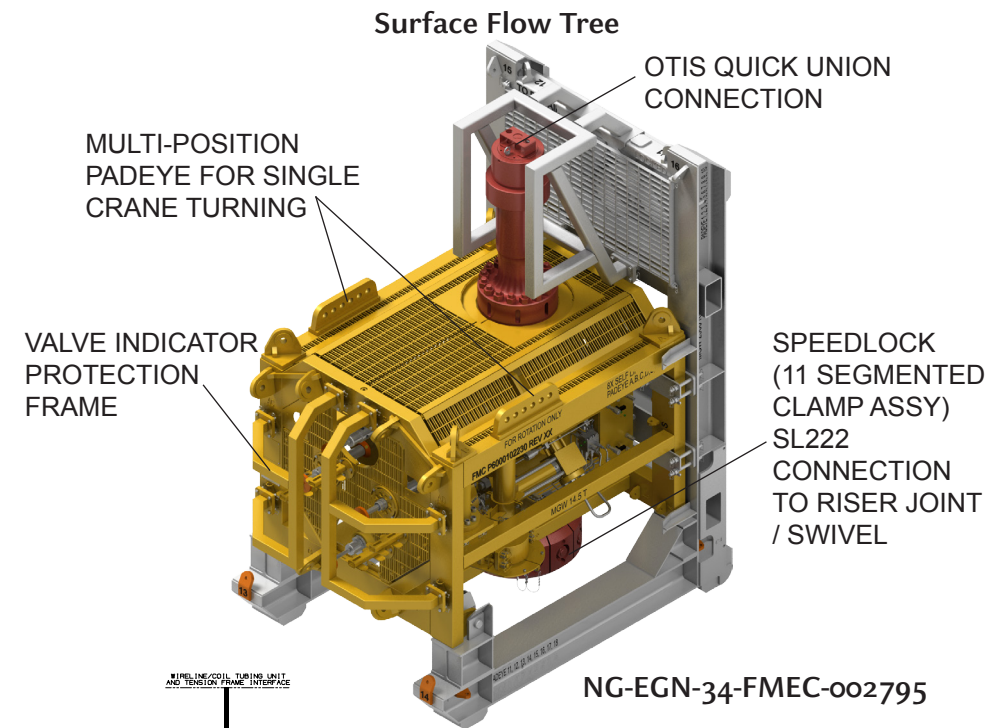
EDP Connector



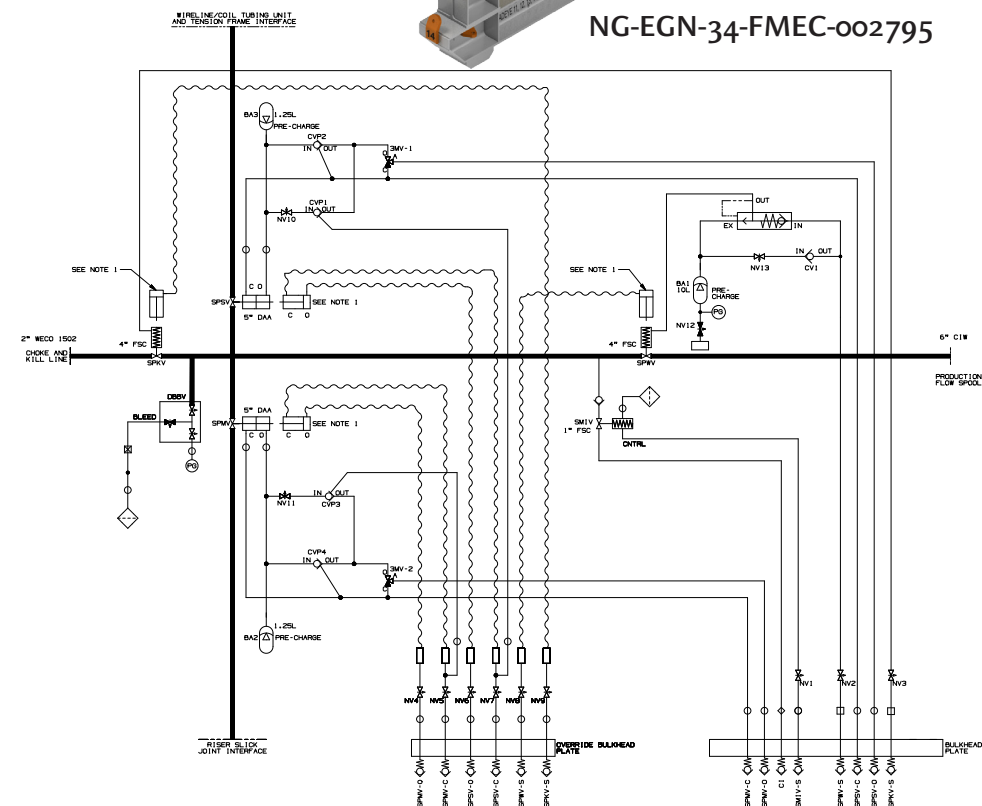
EGINA 121



NG-EGN-34-FMEC-001193
EGINA 122



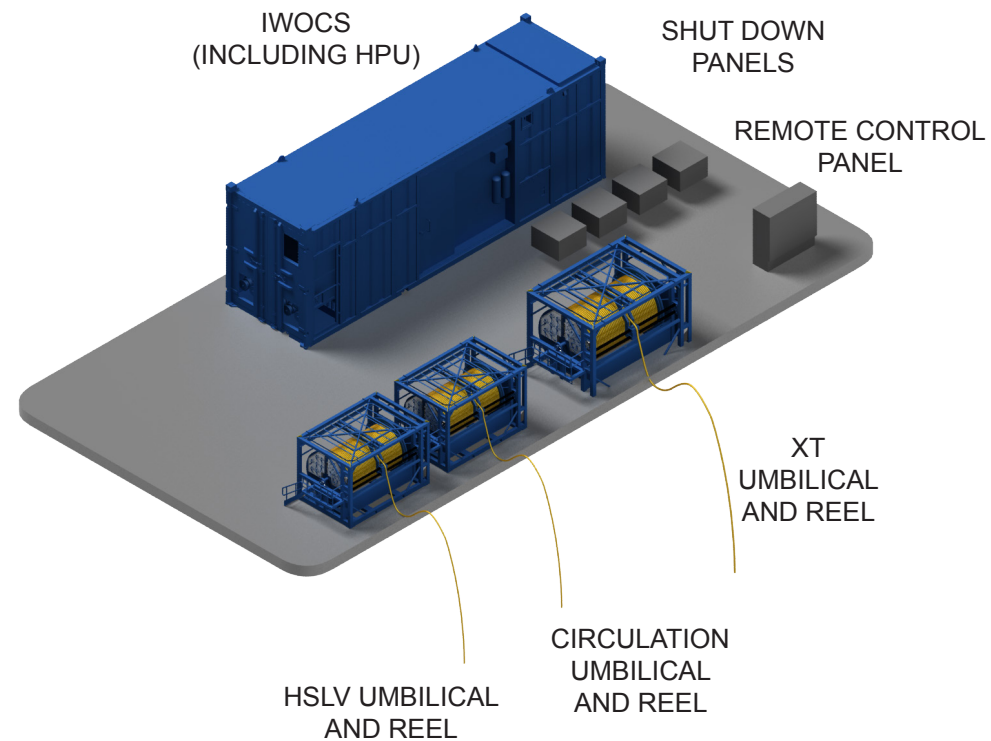
NG-EGN-34-FMEC-002509
EGINA 123



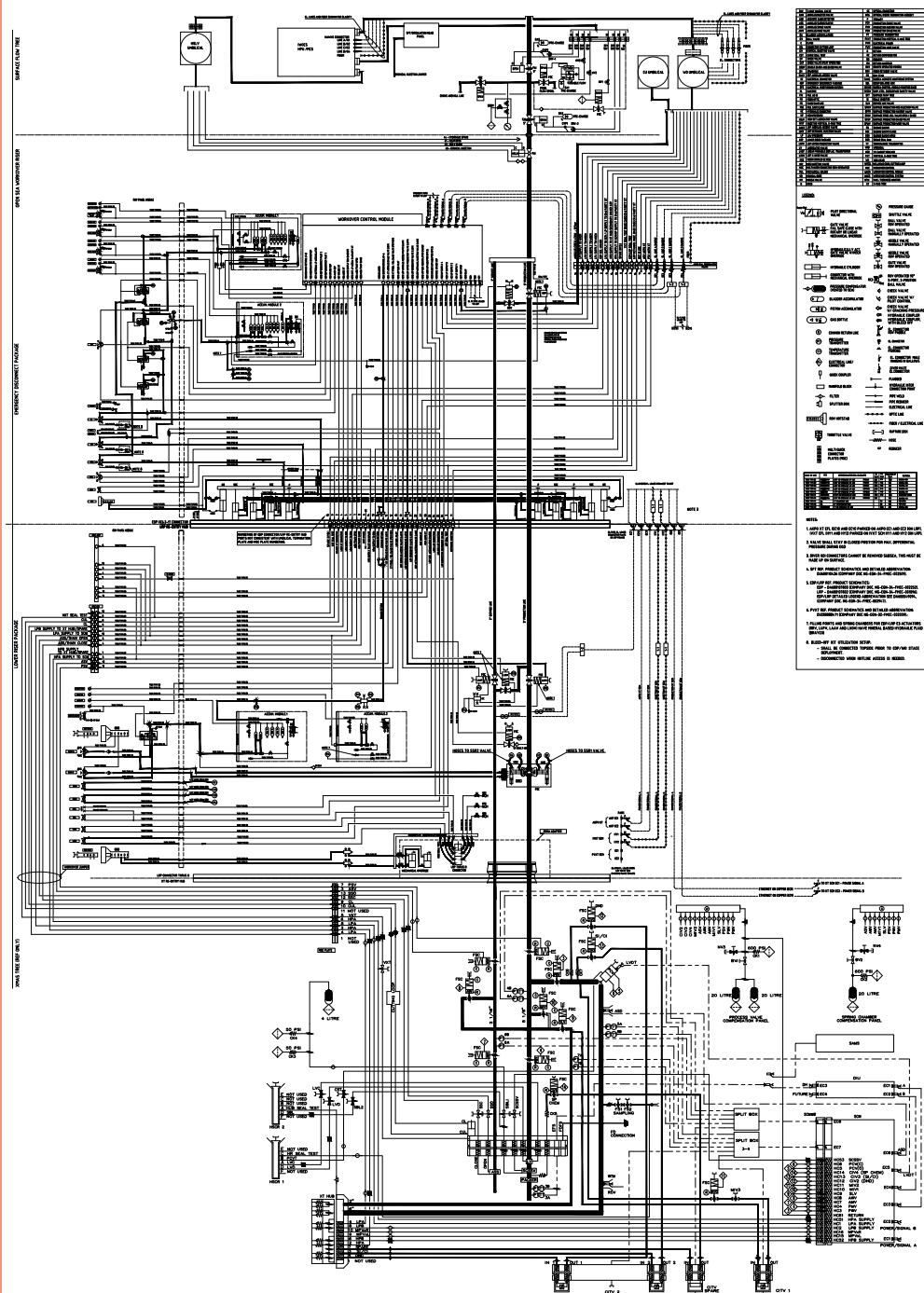
Special Joints on XT mode



IWOCS System, Topside Scope of Supply



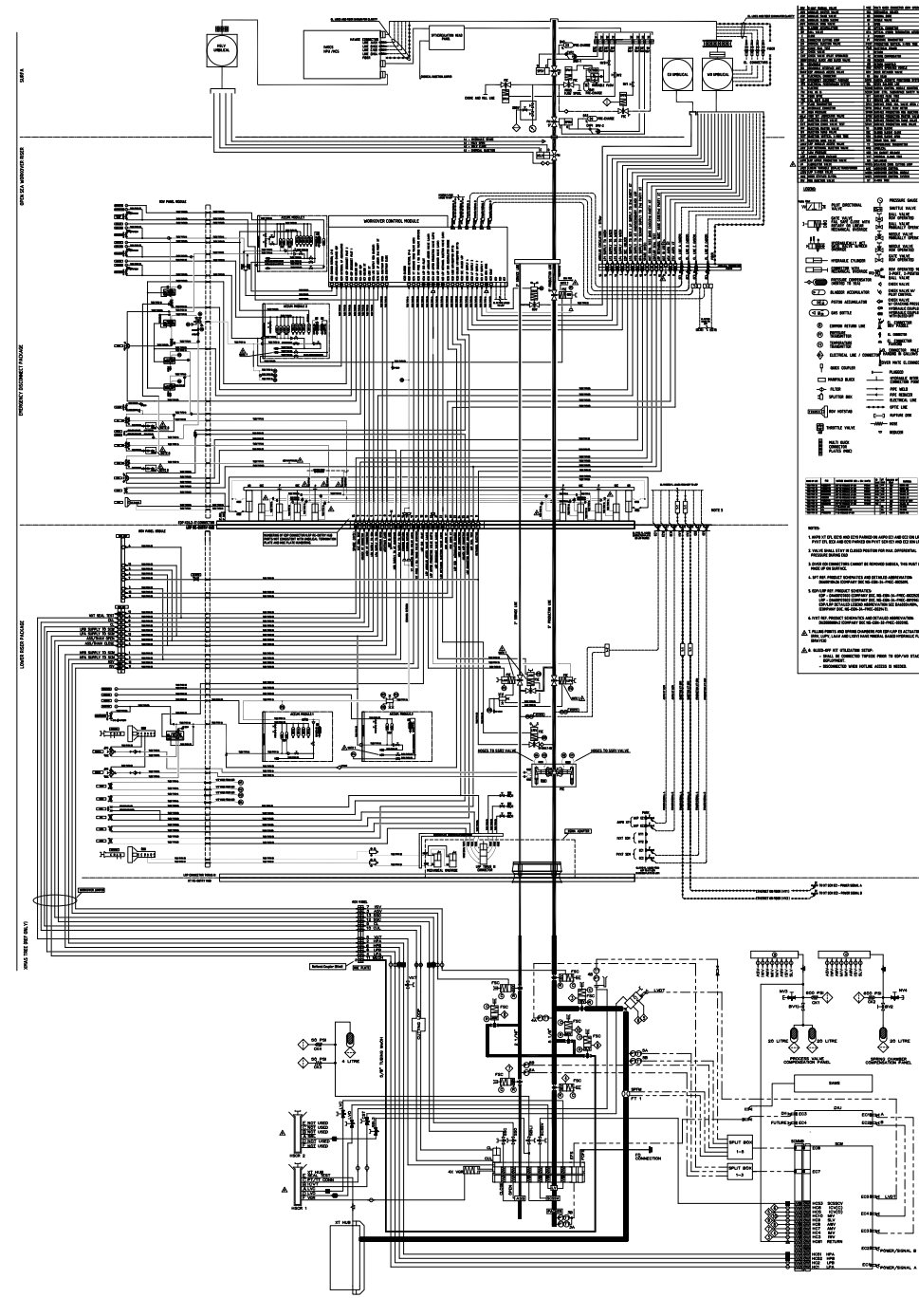
IWOCS electrical and hydraulic schematics - (Production) Xmas Tree mode layout



NG-EGN-34-FMEC-000005

EGINA 126

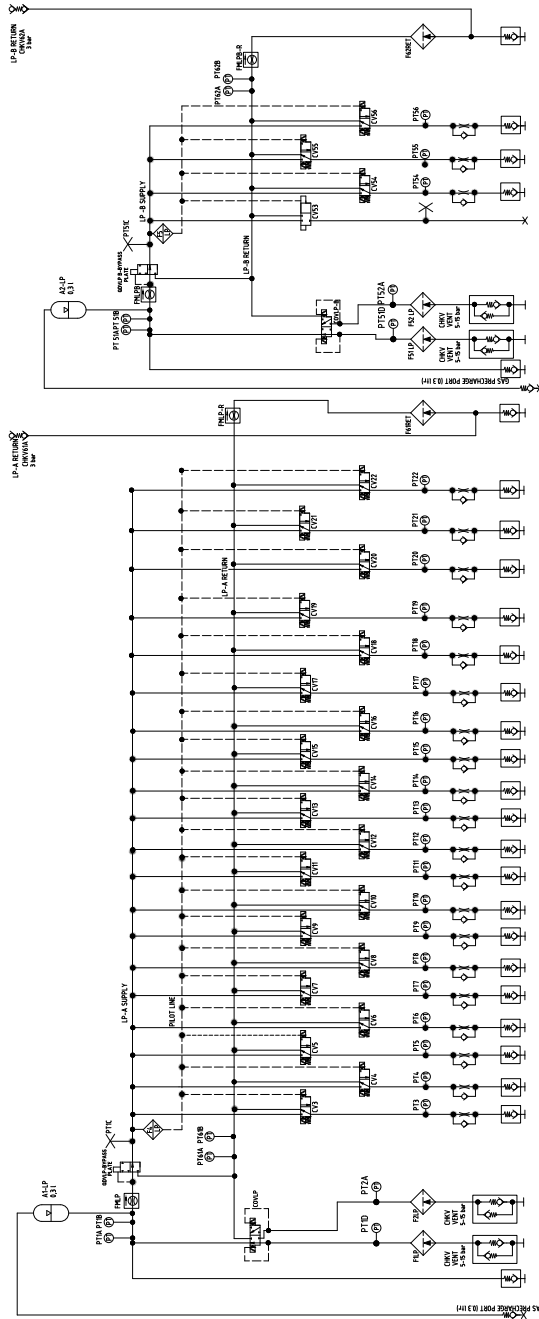
IWOCS electrical and hydraulic schematics - (Injection) Xmas Tree mode layout



NG-EGN-34-FMEC-000036

EGINA 127

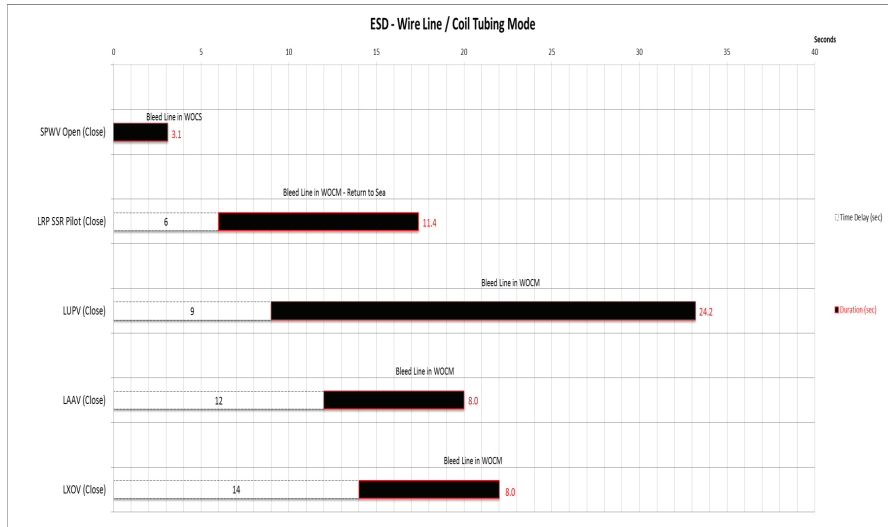
Workover Control Module (WOCM) Schematic



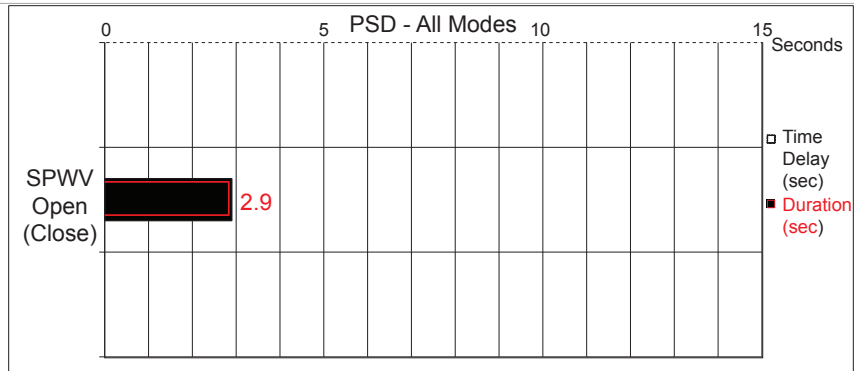
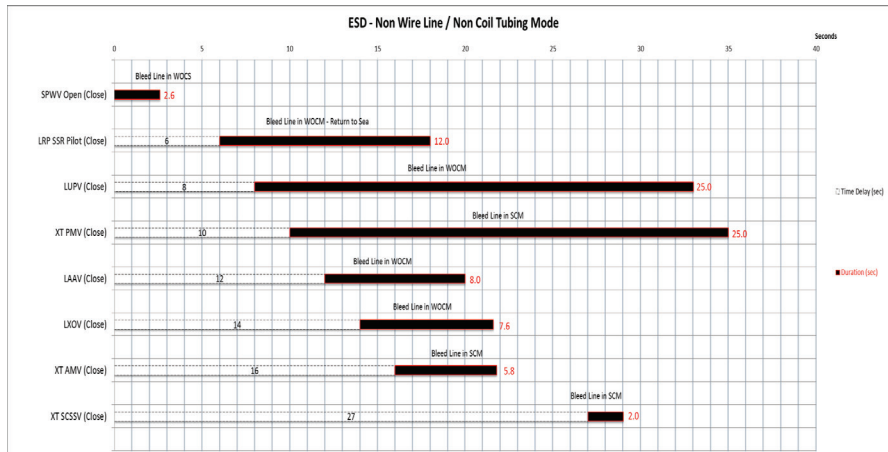
PULSE NAME	WOCM-1		WOCM-2		WOCM-3		WOCM-4		WOCM-5		WOCM-6		WOCM-7		WOCM-8		WOCM-9		WOCM-10		WOCM-11		WOCM-12		WOCM-13		WOCM-14		WOCM-15		WOCM-16		WOCM-17		WOCM-18		WOCM-19		WOCM-20		WOCM-21		WOCM-22		WOCM-23		WOCM-24		WOCM-25		WOCM-26		WOCM-27		WOCM-28		WOCM-29		WOCM-30		WOCM-31		WOCM-32		WOCM-33		WOCM-34		WOCM-35		WOCM-36		WOCM-37		WOCM-38		WOCM-39		WOCM-40		WOCM-41		WOCM-42		WOCM-43		WOCM-44		WOCM-45		WOCM-46		WOCM-47		WOCM-48		WOCM-49		WOCM-50		WOCM-51		WOCM-52		WOCM-53		WOCM-54		WOCM-55		WOCM-56		WOCM-57		WOCM-58		WOCM-59		WOCM-60		WOCM-61		WOCM-62		WOCM-63		WOCM-64		WOCM-65		WOCM-66		WOCM-67		WOCM-68		WOCM-69		WOCM-70		WOCM-71		WOCM-72		WOCM-73		WOCM-74		WOCM-75		WOCM-76		WOCM-77		WOCM-78		WOCM-79		WOCM-80		WOCM-81		WOCM-82		WOCM-83		WOCM-84		WOCM-85		WOCM-86		WOCM-87		WOCM-88		WOCM-89		WOCM-90		WOCM-91		WOCM-92		WOCM-93		WOCM-94		WOCM-95		WOCM-96		WOCM-97		WOCM-98		WOCM-99		WOCM-100		WOCM-101		WOCM-102		WOCM-103		WOCM-104		WOCM-105		WOCM-106		WOCM-107		WOCM-108		WOCM-109		WOCM-110		WOCM-111		WOCM-112		WOCM-113		WOCM-114		WOCM-115		WOCM-116		WOCM-117		WOCM-118		WOCM-119		WOCM-120		WOCM-121		WOCM-122		WOCM-123		WOCM-124		WOCM-125		WOCM-126		WOCM-127		WOCM-128		WOCM-129		WOCM-130		WOCM-131		WOCM-132		WOCM-133		WOCM-134		WOCM-135		WOCM-136		WOCM-137		WOCM-138		WOCM-139		WOCM-140		WOCM-141		WOCM-142		WOCM-143		WOCM-144		WOCM-145		WOCM-146		WOCM-147		WOCM-148		WOCM-149		WOCM-150		WOCM-151		WOCM-152		WOCM-153		WOCM-154		WOCM-155		WOCM-156		WOCM-157		WOCM-158		WOCM-159		WOCM-160		WOCM-161		WOCM-162		WOCM-163		WOCM-164		WOCM-165		WOCM-166		WOCM-167		WOCM-168		WOCM-169		WOCM-170		WOCM-171		WOCM-172		WOCM-173		WOCM-174		WOCM-175		WOCM-176		WOCM-177		WOCM-178		WOCM-179		WOCM-180		WOCM-181		WOCM-182		WOCM-183		WOCM-184		WOCM-185		WOCM-186		WOCM-187		WOCM-188		WOCM-189		WOCM-190		WOCM-191		WOCM-192		WOCM-193		WOCM-194		WOCM-195		WOCM-196		WOCM-197		WOCM-198		WOCM-199		WOCM-200		WOCM-201		WOCM-202		WOCM-203		WOCM-204		WOCM-205		WOCM-206		WOCM-207		WOCM-208		WOCM-209		WOCM-210		WOCM-211		WOCM-212		WOCM-213		WOCM-214		WOCM-215		WOCM-216		WOCM-217		WOCM-218		WOCM-219		WOCM-220		WOCM-221		WOCM-222		WOCM-223		WOCM-224		WOCM-225		WOCM-226		WOCM-227		WOCM-228		WOCM-229		WOCM-230		WOCM-231		WOCM-232		WOCM-233		WOCM-234		WOCM-235		WOCM-236		WOCM-237		WOCM-238		WOCM-239		WOCM-240		WOCM-241		WOCM-242		WOCM-243		WOCM-244		WOCM-245		WOCM-246		WOCM-247		WOCM-248		WOCM-249		WOCM-250		WOCM-251		WOCM-252		WOCM-253		WOCM-254		WOCM-255		WOCM-256		WOCM-257		WOCM-258		WOCM-259		WOCM-260		WOCM-261		WOCM-262		WOCM-263		WOCM-264		WOCM-265		WOCM-266		WOCM-267		WOCM-268		WOCM-269		WOCM-270		WOCM-271		WOCM-272		WOCM-273		WOCM-274		WOCM-275		WOCM-276		WOCM-277		WOCM-278		WOCM-279		WOCM-280		WOCM-281		WOCM-282		WOCM-283		WOCM-284		WOCM-285		WOCM-286		WOCM-287		WOCM-288		WOCM-289		WOCM-290		WOCM-291		WOCM-292		WOCM-293		WOCM-294		WOCM-295		WOCM-296		WOCM-297		WOCM-298		WOCM-299		WOCM-300		WOCM-301		WOCM-302		WOCM-303		WOCM-304		WOCM-305		WOCM-306		WOCM-307		WOCM-308		WOCM-309		WOCM-310		WOCM-311		WOCM-312		WOCM-313		WOCM-314		WOCM-315		WOCM-316		WOCM-317		WOCM-318		WOCM-319		WOCM-320		WOCM-321		WOCM-322		WOCM-323		WOCM-324		WOCM-325		WOCM-326		WOCM-327		WOCM-328		WOCM-329		WOCM-330		WOCM-331		WOCM-332		WOCM-333		WOCM-334		WOCM-335		WOCM-336		WOCM-337		WOCM-338		WOCM-339		WOCM-340		WOCM-341		WOCM-342		WOCM-343		WOCM-344		WOCM-345		WOCM-346		WOCM-347		WOCM-348		WOCM-349		WOCM-350		WOCM-351		WOCM-352		WOCM-353		WOCM-354		WOCM-355		WOCM-356		WOCM-357		WOCM-358		WOCM-359		WOCM-360		WOCM-361		WOCM-362		WOCM-363		WOCM-364		WOCM-365		WOCM-366		WOCM-367		WOCM-368		WOCM-369		WOCM-370		WOCM-371		WOCM-372		WOCM-373		WOCM-374		WOCM-375		WOCM-376		WOCM-377		WOCM-378		WOCM-379		WOCM-380		WOCM-381		WOCM-382		WOCM-383		WOCM-384		WOCM-385		WOCM-386		WOCM-387		WOCM-388		WOCM-389		WOCM-390		WOCM-391		WOCM-392		WOCM-393		WOCM-394		WOCM-395		WOCM-396		WOCM-397		WOCM-398		WOCM-399		WOCM-400		WOCM-401		WOCM-402		WOCM-403		WOCM-404		WOCM-405		WOCM-406		WOCM-407		WOCM-408		WOCM-409	

EQD, ESD, PSD Systems

ESD – Wire Line/Coil Tubing Mode

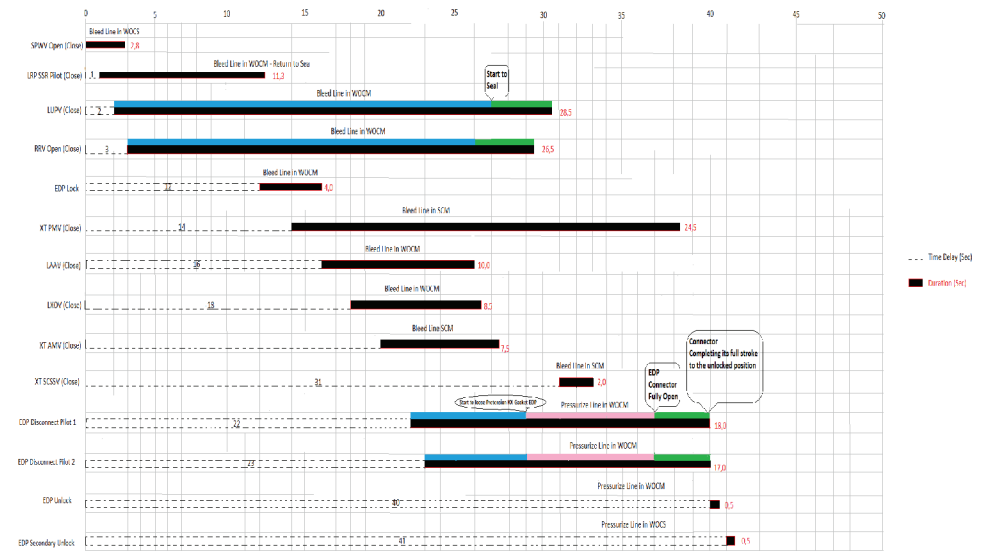


ESD – Non Wire Line/Non Coil Tubing Mode

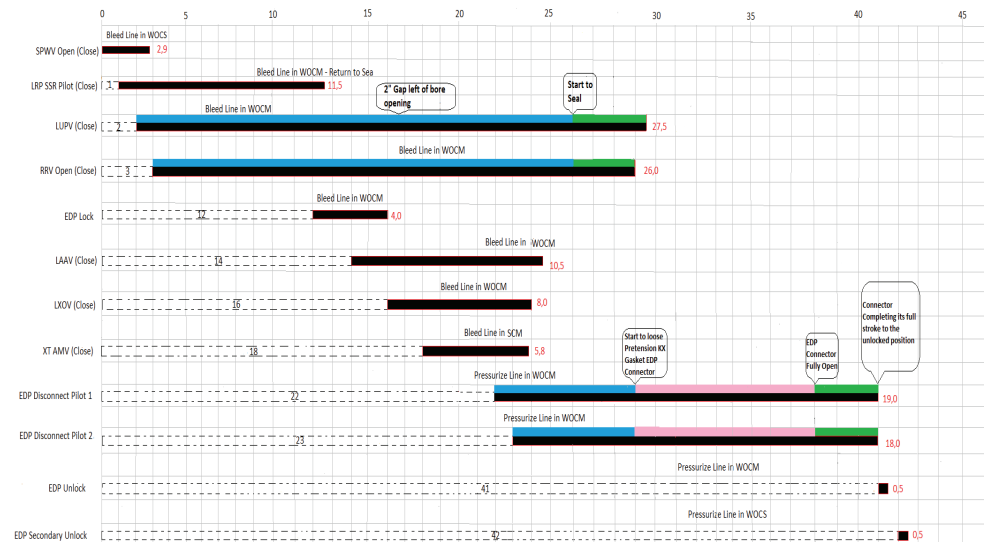


EQD, ESD, PSD Systems

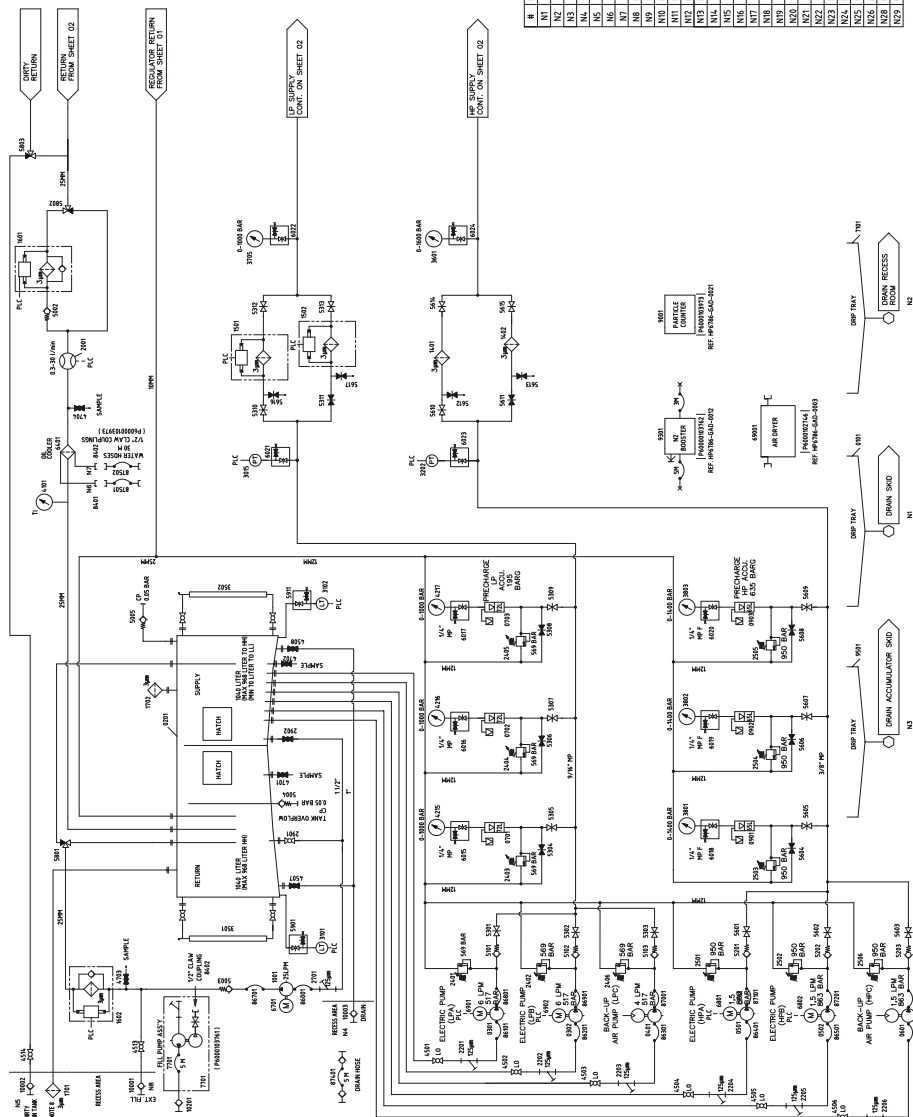
EQD – Non Wireline/Non Coil Tubing Mode



EQD – Wire line/Coil Tubing Mode



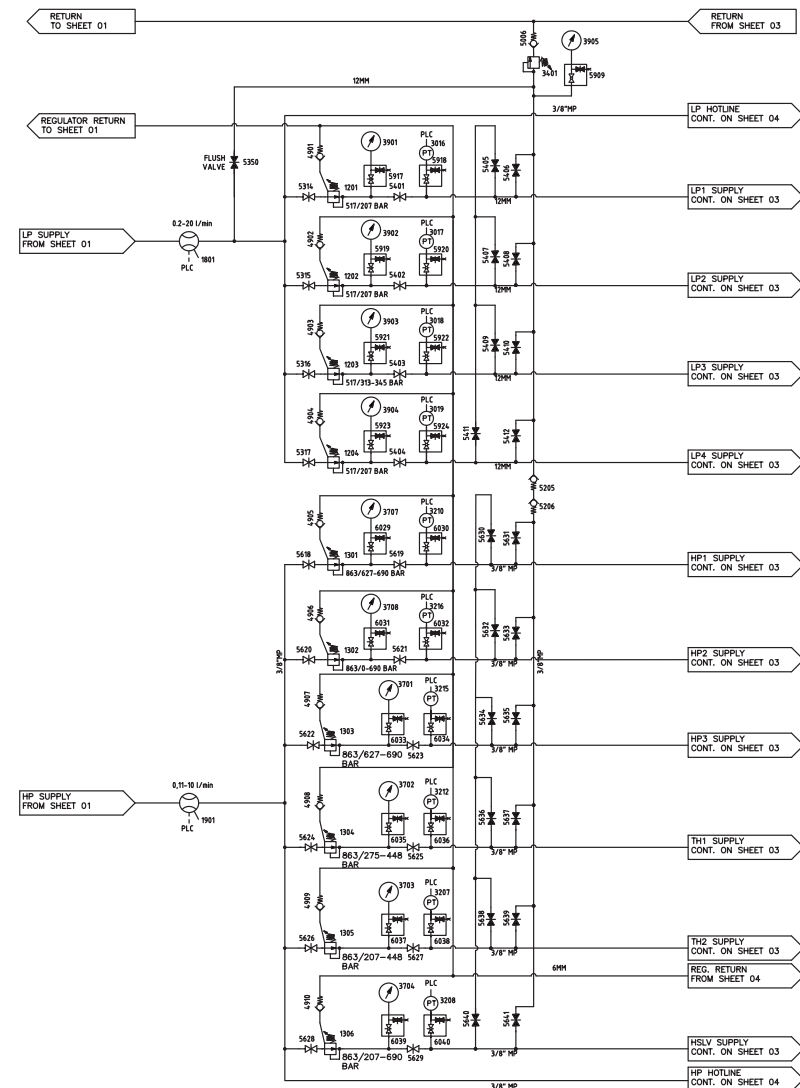
HPU/MCS Hydraulic Schematic



NG-EGN-34-FM51-002381

EGINA 134

HPU/MCS Hydraulic Schematic



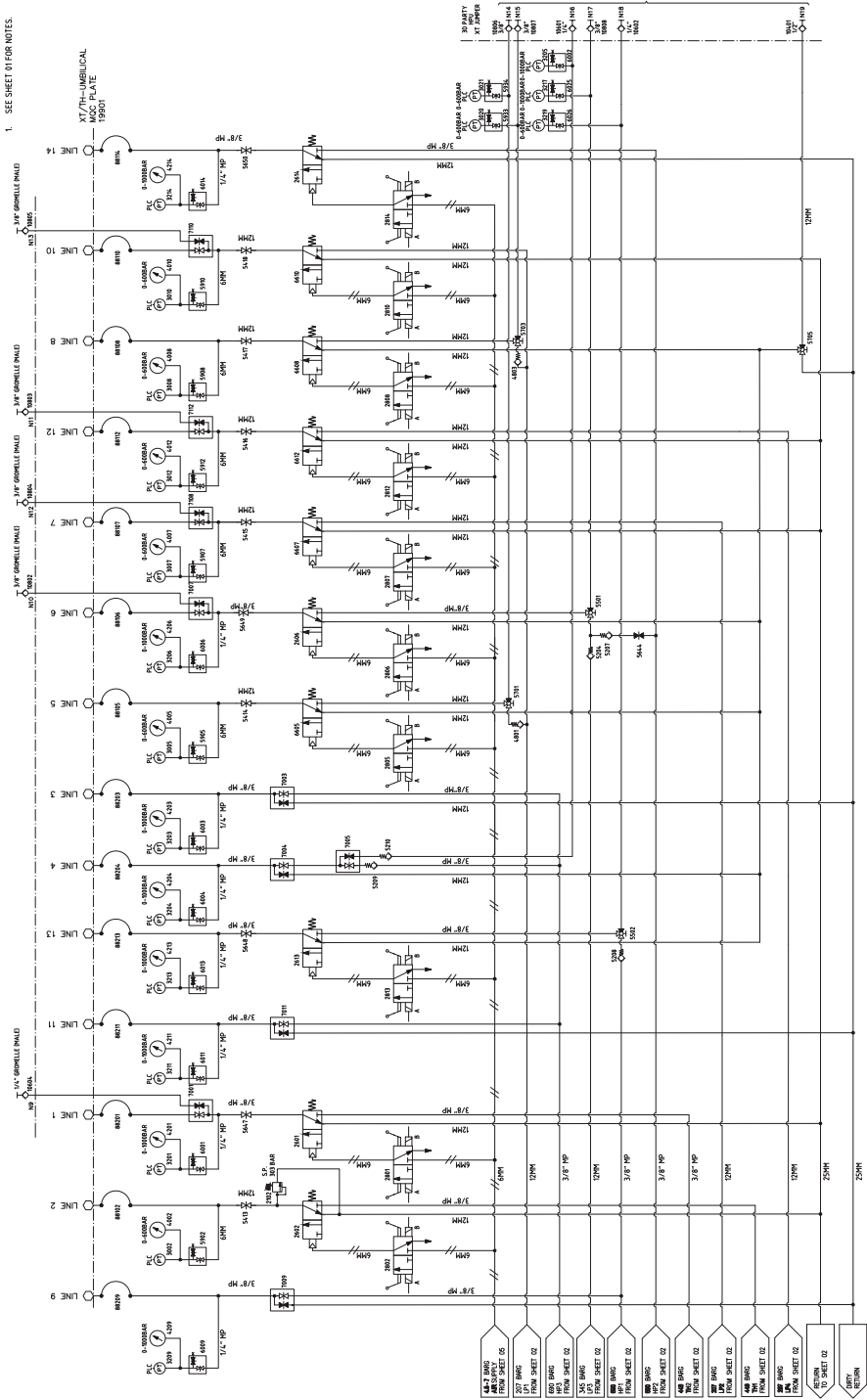
NOTES:

1. SEE SHEET 01 FOR NOTES.

NG-EGN-34-FM51-002381

EGINA 135

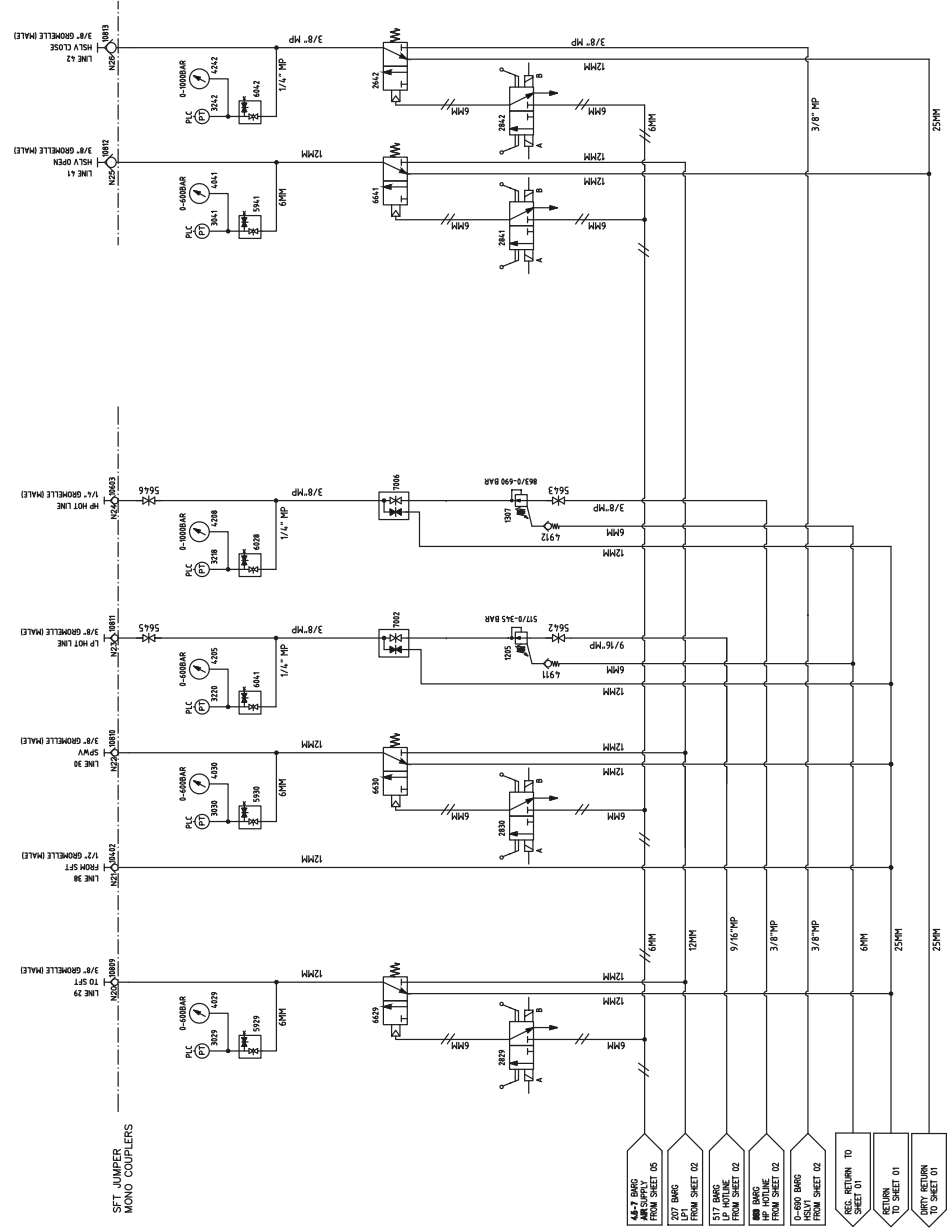
NOTES:
1. SEE SHEET 01 FOR NOTES.



NG-EGN-34-FM51-002381

EGINA 136

HPU/MCS Hydraulic Schematic



NG-EGN-34-FM51-002381

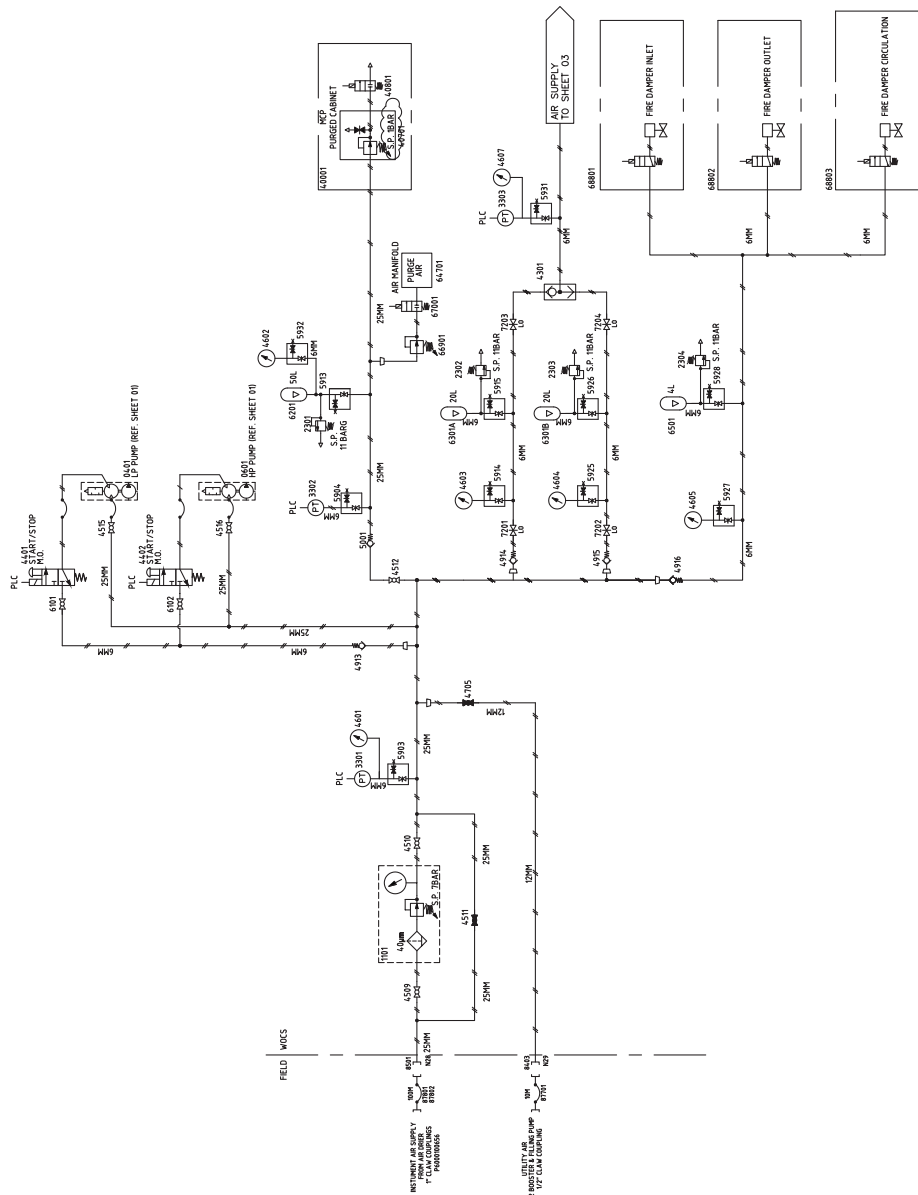
EGINA 137

NOTES:
1. SEE SHEET 01 FOR NOTES.

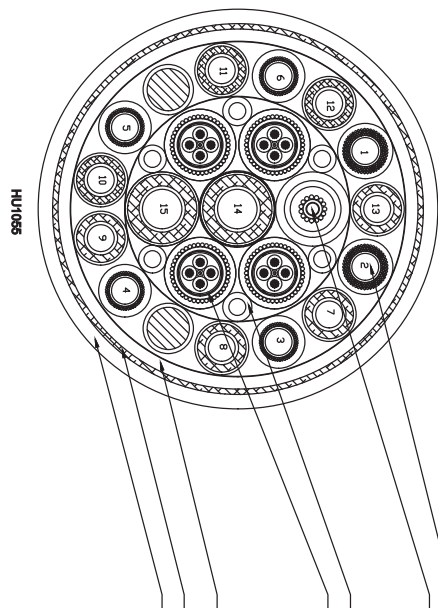
NG-EGN-34-FM⁹51-002381

4.0µm

AIR FILTER REGULATOR
W/WATER TRAP & GAUGE



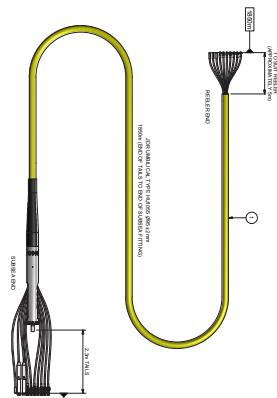
EGINA 139



NUTS—	
HASSES AS PER TABLE	
1 OFF FIBRE OPTIC CABLE COMPRISING—	
4 SINGLE MODE AND 4 MULTI MODE FIBRES	
POLYETHYLENE SHEATH	STEEL TUBE
GSV ARMOUR	
POLYETHYLENE SHEATH	
VARIOUS LIOUDS AND GAS EVACUATION TUBES	
4 OFF STAGNATED TWISTED COILS COMPRISING—	
2 COILS OF STAGNATED COPPER CONDUCTORS	
0.6MM COPPER	IRON PIPE
POLYETHYLENE BELTED SHEATH	
ARMOUR BEDDING SHEATH	
POLYETHYLENE REINFORCEMENT	
FLAME RETARDANT POLYURETHANE INNER SHEATH	
30MM IDENTIAL WALL THICKNESS	
ARMOUR FIBRE REINFORCEMENT BRAID	
FLAME RETARDANT POLYURETHANE OUTER SHEATH	
35MM IDENTIAL WALL THICKNESS	

JDR LINE NO.	PMC LINE NO.	HOSE PIN	OD (mm)	MMF (pa)	MBS (mm)	MBS (Pa)	FITTING	FITTING DESCRIPTION	SERVICE	SPIRAL GUARD REEL	SPRING GUARD SIS END
1	11	2340N-04/91	14"	13.1	10,000	165	108X4-64C	JIC 06 FEMALE UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1655S
2	12	2340N-04/91	14"	12.5	10,000	165	108X4-64C	JIC 06 FEMALE UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1655S
3	13	2340N-04/91	14"	12.5	10,000	70	108X4-64C	JIC 06 FEMALE PARKER 9/16" UNF	METHANOL	SB-207-001 (13.1mm)	S90C13/34.9500T/1675S
4	4	2340N-04/91	14"	12.5	10,000	70	108X4-64C	JIC 06 FEMALE PARKER 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1675S
5	9	2340N-04/91	14"	12.5	10,000	70	108X4-64C	JIC 06 FEMALE PARKER 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1675S
6	13	2340N-04/91	14"	12.5	10,000	70	108X4-64C	JIC 06 FEMALE PARKER 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1675S
7	1	2340N-04/91	14"	12.5	10,000	120	108X4-64C	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1675S
8	2	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
9	8	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
10	6	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
11	8	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
12	12	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
13	14	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
14	14	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
15	15	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
16	16	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
17	17	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
18	18	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
19	19	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
20	20	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
21	21	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
22	22	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
23	23	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
24	24	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
25	25	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
26	26	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
27	27	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
28	28	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
29	29	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
30	30	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
31	31	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
32	32	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
33	33	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
34	34	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
35	35	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
36	36	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
37	37	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
38	38	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
39	39	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
40	40	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
41	41	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
42	42	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
43	43	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
44	44	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
45	45	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
46	46	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
47	47	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
48	48	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
49	49	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
50	50	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
51	51	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
52	52	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
53	53	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
54	54	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
55	55	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
56	56	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
57	57	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
58	58	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
59	59	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
60	60	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
61	61	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
62	62	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
63	63	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
64	64	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
65	65	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
66	66	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
67	67	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
68	68	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
69	69	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
70	70	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
71	71	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
72	72	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
73	73	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
74	74	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
75	75	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
76	76	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
77	77	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.9500T/1665S
78	78	UA6904L/1N	14"	12.8	10,000	120	JF06SS2U04HP103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-207-001 (13.1mm)	S90C13/34.950

UNBROKEN LIMBICAL DURA	1860 m
MINIMUM LENGTH	FR30
OUTER SHEATH	90 mm/12mm
OUTER SHEATH COLOUR	YELLOW
SHEATH REINFORCEMENT MATERIAL	ARAMID FIBRE
MINIMUM BEND RADIUS	720 mm
DYNAMIC MINIMUM BEND RADIUS	1,440 mm
WEIGHT IN AIR (FILLED)	8,900 kg/m
WEIGHT IN SEAWATER (FLOODED/FILLED)	2,980 kg/m
CALCULATED LIMBICAL MAX BREAKLOAD	350 kN
UNBIMICAL MINIMUM BREAKLOAD	20 kN
UNBIMICAL MAX SWL	20 kN
TERMINATED LIMBICAL MIN BREAKLOAD	100 kN
TERMINATED LIMBICAL MAX SWL	200 kN
HOSE OPERATING TEMPERATURE	-20 to 60 deg C
SHEATH STORAGE TEMPERATURE	-20 to 60 deg C



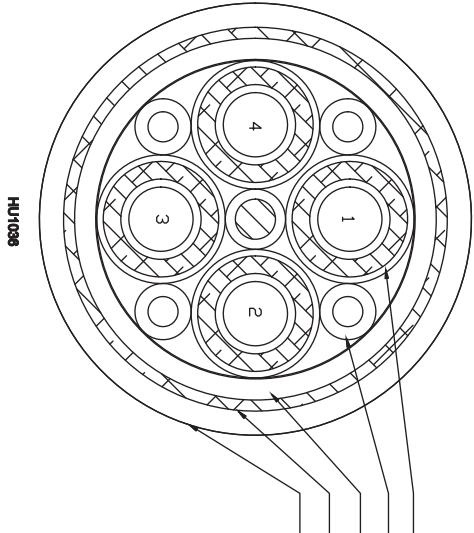
INSTALLATION & WORKOVER CONTROL SYSTEM (IWOCs)

Workover Umbilicals w/reel
HSLV Umbilical

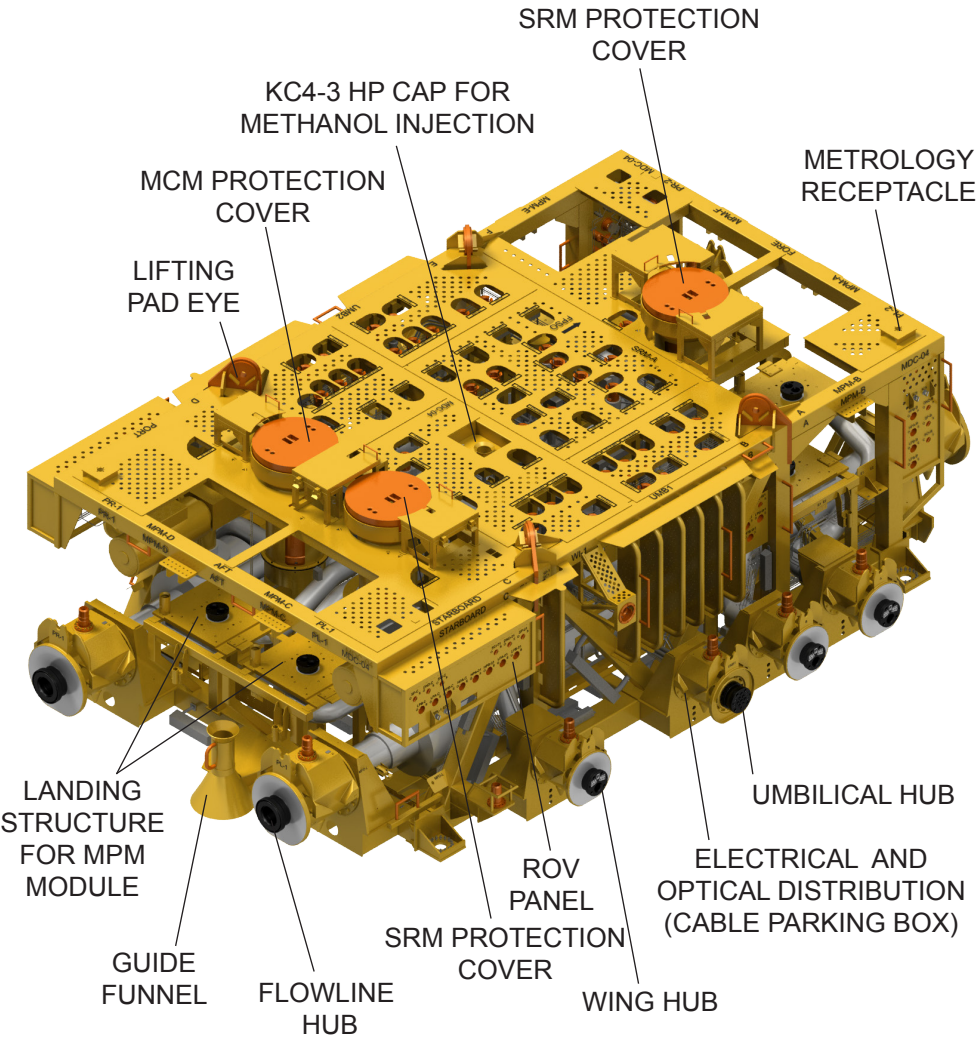
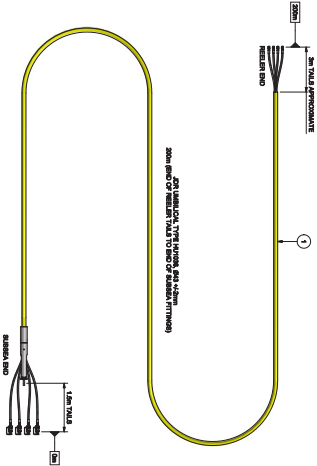
Manifold Module

LINE No.	FMC LINE No.	HOSE PIN	NB	OD (mm)	MBP (psi)	MBR (mm)	MBP (Psa)	FITTING	FITTING DESCRIPTION	SERVICE	SPIRALGUARD REELER END	SPIRALGUARD S/S END
1	41	UA8904LJN	1/4"	12.8	10,000	120	40,000	JF06SS2UDH-P103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-400/201 (13-18mm)	SGOC134/1500F-167SS
2	42	UA8904LJN	1/4"	12.8	10,000	120	40,000	JF06SS2UDH-P103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-400/201 (13-18mm)	SGOC134/1500F-167SS
3	43	UA8904LJN	1/4"	12.8	10,000	120	40,000	JF06SS2UDH-P103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-400/201 (13-18mm)	SGOC134/1500F-167SS
4	44	UA8904LJN	1/4"	12.8	10,000	120	40,000	JF06SS2UDH-P103	JIC 06 FEMALE 9/16" UNF	HYDRAULIC	SB-400/201 (13-18mm)	SGOC134/1500F-167SS

HU1038 UMBILICAL DATA	
UMBILICAL LENGTH	200 m
OUTSIDE DIAMETER	43 mm±2mm
OUTER SHEATH MATERIAL	FRP/PU
OUTER SHEATH COLOUR	YELLOW
SHEATH REINFORCEMENT MATERIAL	ARAMID FIBRE
STATIC MINIMUM BEND RADIUS	340 mm
DYNAMIC MINIMUM BEND RADIUS	750 mm
WEIGHT IN AIR (FILLED)	1600 kg/km
WEIGHT IN SEAWATER (FLOODED/FILLED)	280 kg/km
CALCULATED UMBILICAL MAX BREAKLOAD	140 tN
UMBILICAL MINIMUM BREAKLOAD	60 tN
UMBILICAL MAX SWL	15 tN
TERMINATED UMBILICAL MIN BREAKLOAD	50 tN
TERMINATED UMBILICAL MAX SWL	10 tN
STORAGE AND OPERATING TEMPERATURE	-20 to 60 Deg C

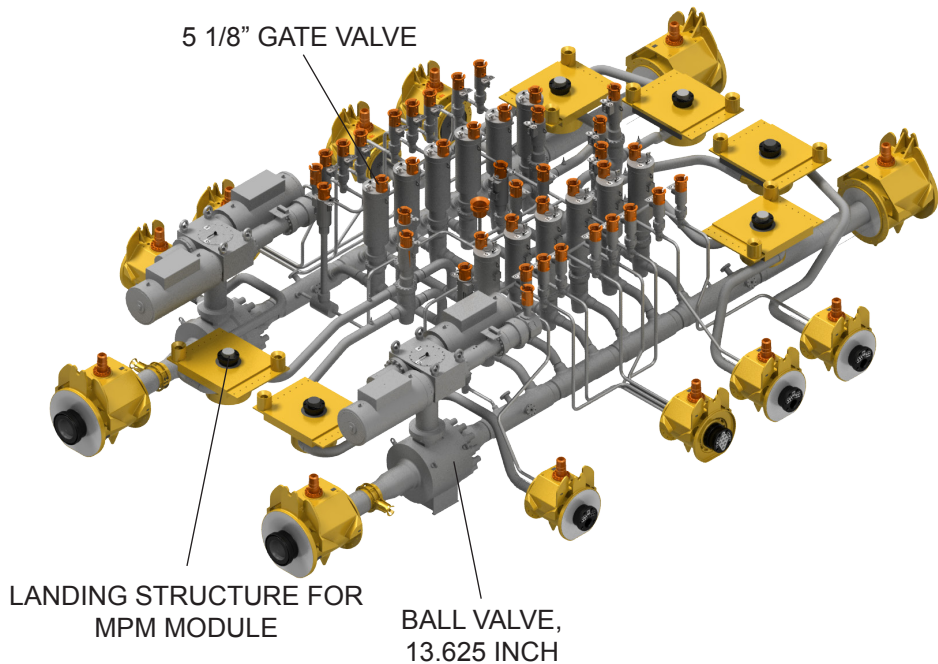
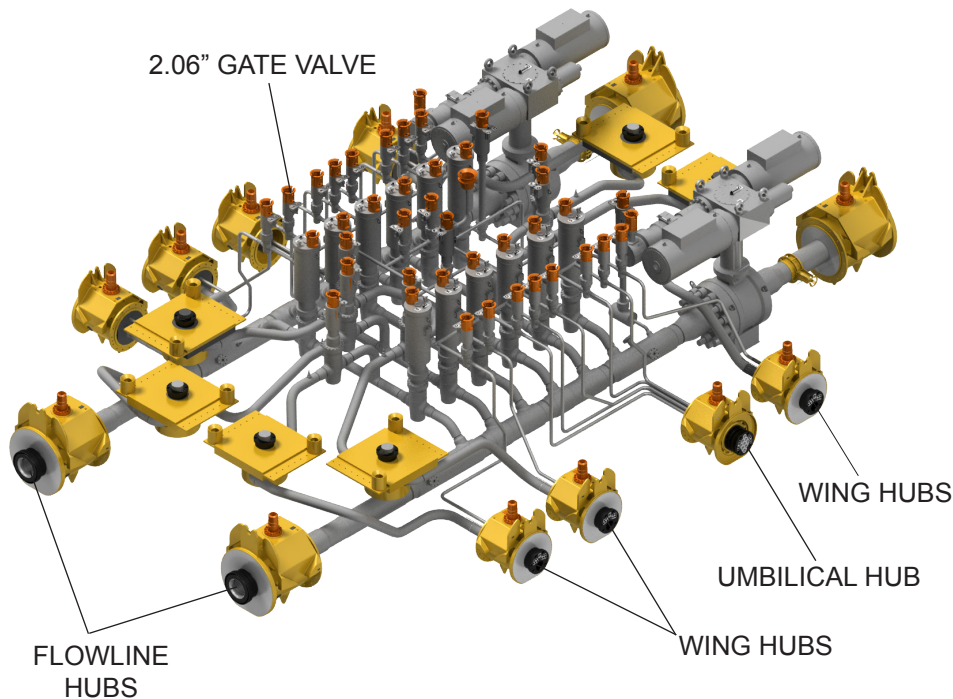


- NOTES:-
- HOSES AS PER TABLE
- VARIOUS LIQUID & GAS EVACUATION TUBES
- FLAME RETARDANT POLYURETHANE INNER SHEATH
- 20mm NOMINAL WALL THICKNESS
- ARAMID FIBRE REINFORCEMENT BRAID
- FLAME RETARDANT POLYURETHANE OUTER SHEATH
- 20mm NOMINAL WALL THICKNESS
- NOTES:-
- 1) HOSE OPERATING TEMPERATURE MAY VARY DEPENDING ON THE FLUID USED. PLEASE CONSULT WITH THE RELEVANT FLUID MANUFACTURER FOR RECOMMENDED TEMPERATURE RANGES.
- 2) METHANOL LINES MUST BE METHANOL FILLED AT ALL TIMES TO PREVENT HOSE COLLAPSE.
- 3) METHANOL LINES ARE SUITABLE FOR CONTINUOUS USE AT MAXIMUM TEMPERATURE OF 85°C.

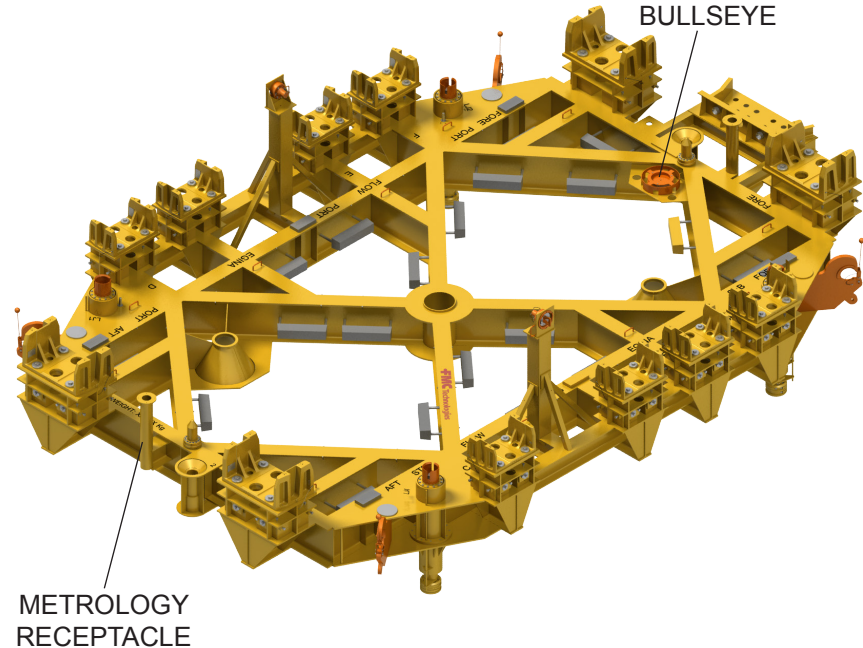
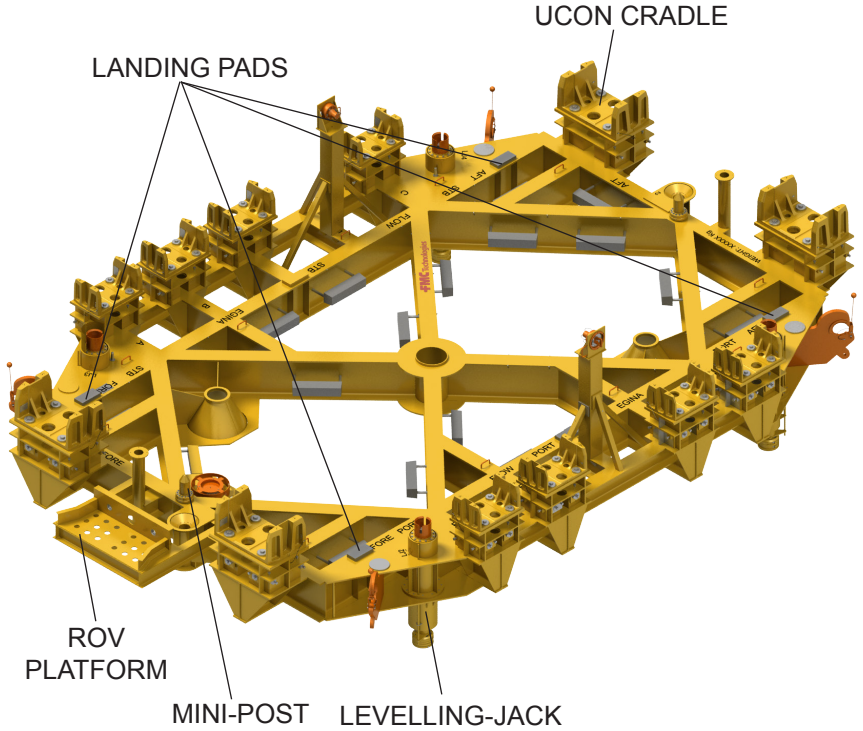


General Arrangement drawing: NG-EGN-31-FMEC-000476

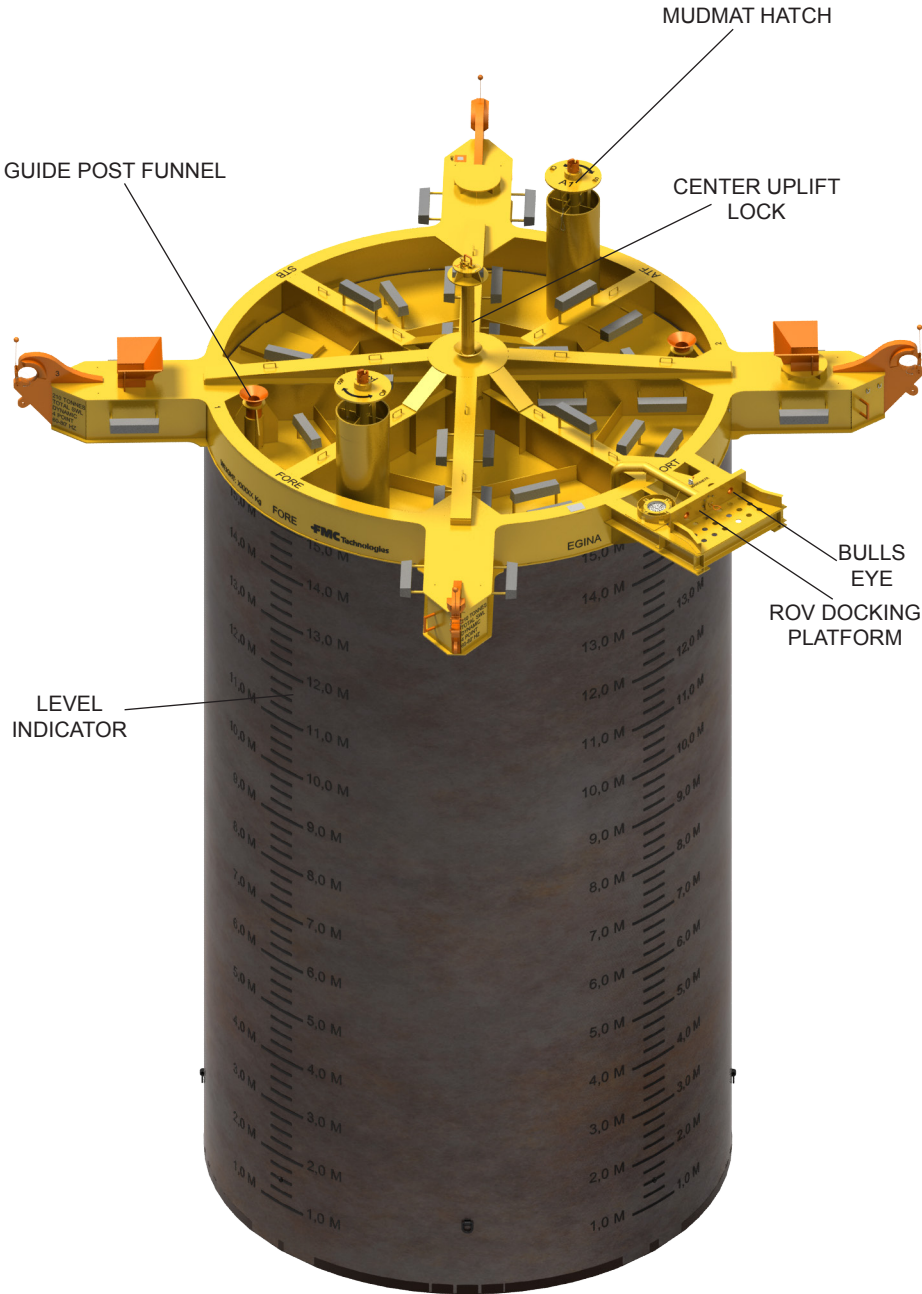
Large Bore



Manifold Support Structure (MSS)

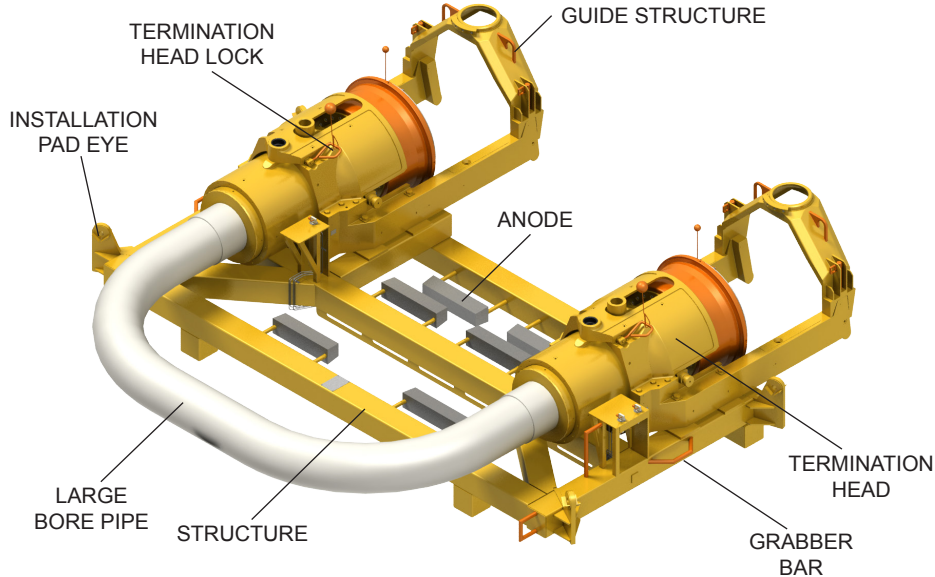


Closed Caisson Foundation (CCF)

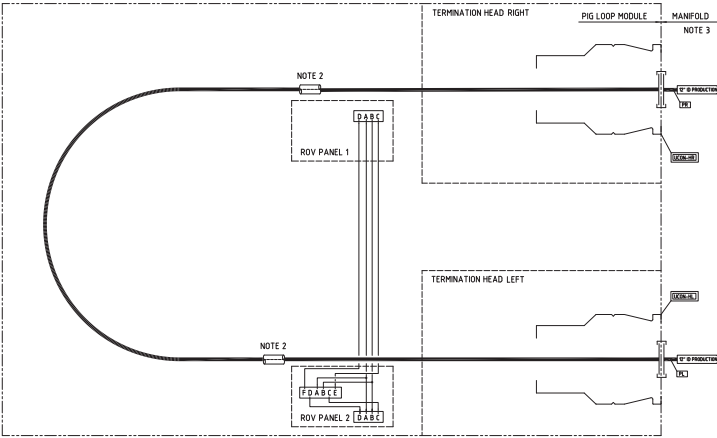


NG-EGN-31-FM51-000402
EGINA 144

Pig Loop Module



TO MANIFOLD
FORE



NOTES:
1. LARGE BORE DESIGN ACCORDING TO ASME B31.4, SMALL BORE DESIGN ACCORDING TO ASME B31.3
2. INSULATION APPLIES FOR THE WHOLE PIG LOOP LARGE BORE PIPE
3. PIG LOOP MODULE IS NOT ALLOWED ON PIPES INDC 02-SOUTH PRODUCTION LOOPS AND PIPES INDC 02-NORTH PRODUCTION LOOPS
4. PIG LOOP MODULE WILL FOLLOW THE MANIFOLD HEADER PIPE INCLINATION, IE. FREE DRAWING WITH HEADER
5. FOR DETAILS REGARDING CONTROL, INDC AND PROCEDURE FOR CLOSING TERMINATION HEAD, PLEASE REFER TO TOP 400P/20 INDC-31-FMPC-0314/3 AND CP400/20/5

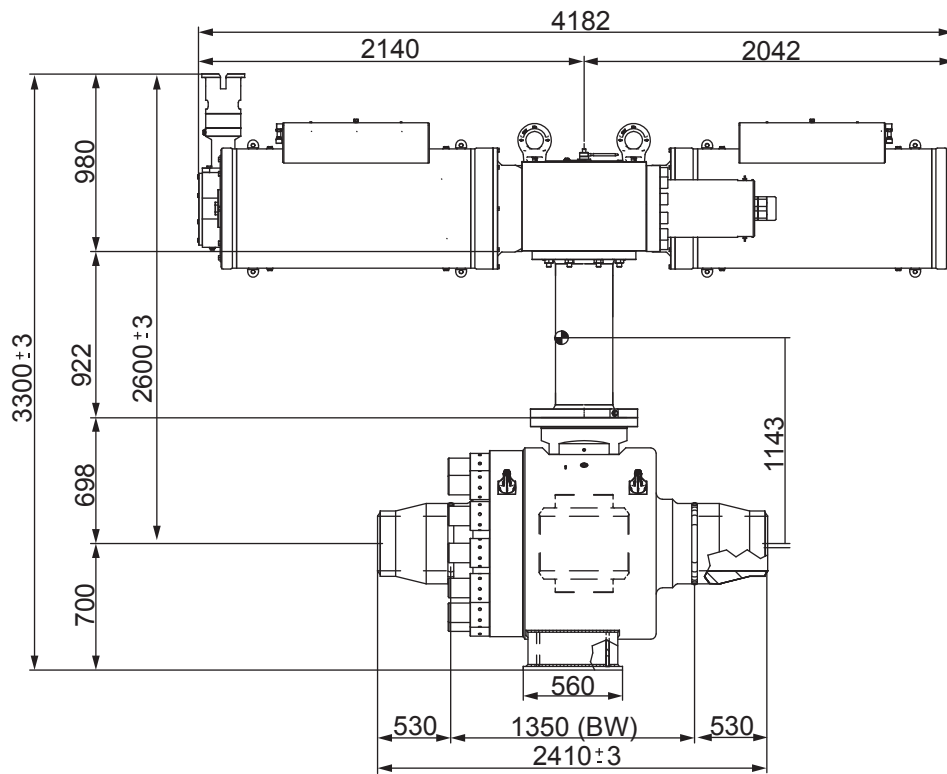
LEGEND

	12" ID PIGLOOP HEADER
	THERMAL INSULATION
	STAB 4L RECEPTACLE
	STAB 4L RECEPTACLE
	COLLET CONNECTOR KCL-2-16 ID 12" KCL-1108

LINE	OD	ID	WT	DP	MATERIAL
12" ID PIGLOOP HEADER	3674	3616	38	51% BAR	22% CR DUPLEX
5/8" HYDRAULIC SUPPLY	953	623	165	20% BAR	3%L

NG-EGN-31-FM51-000505
EGINA 145

MANIFOLD AND FOUNDATION

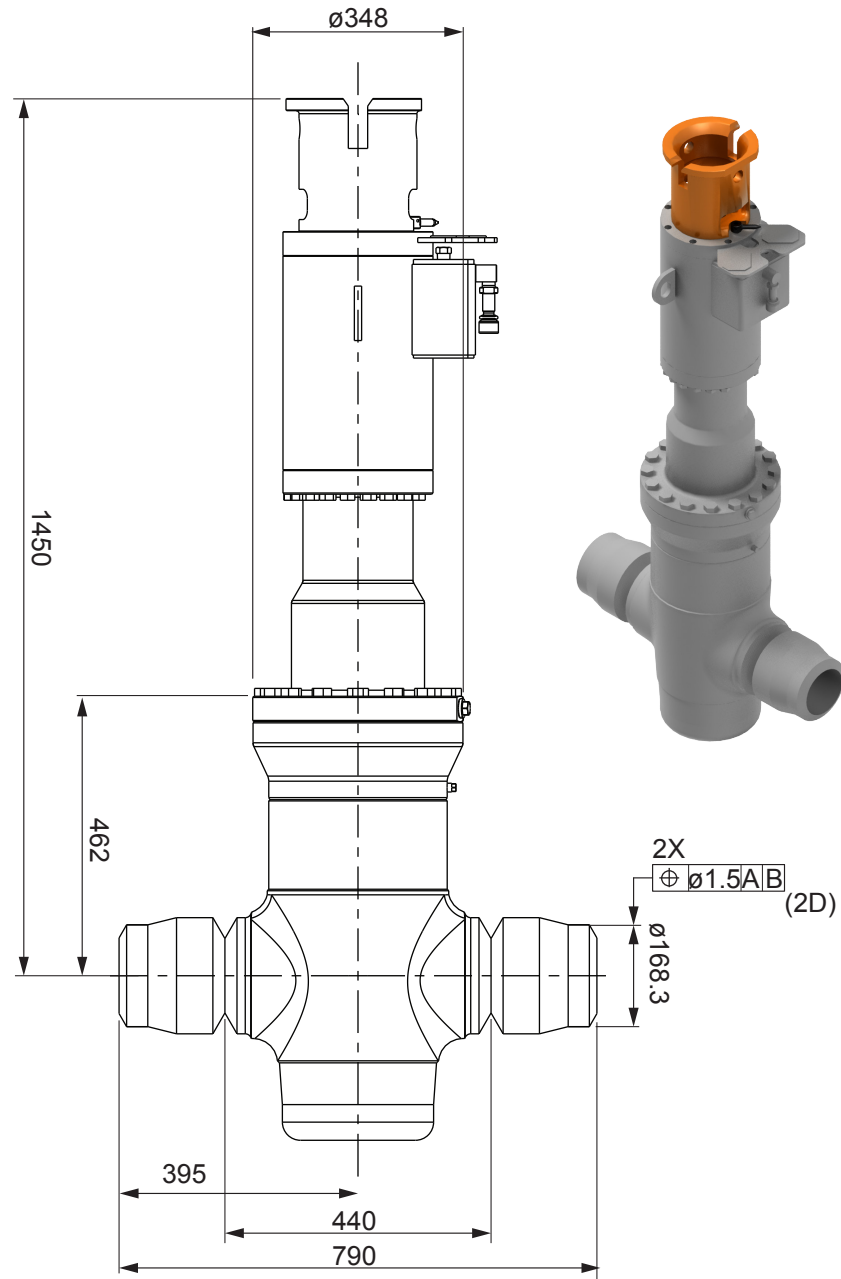


5 1/8" Gate Valve, hydraulic actuated



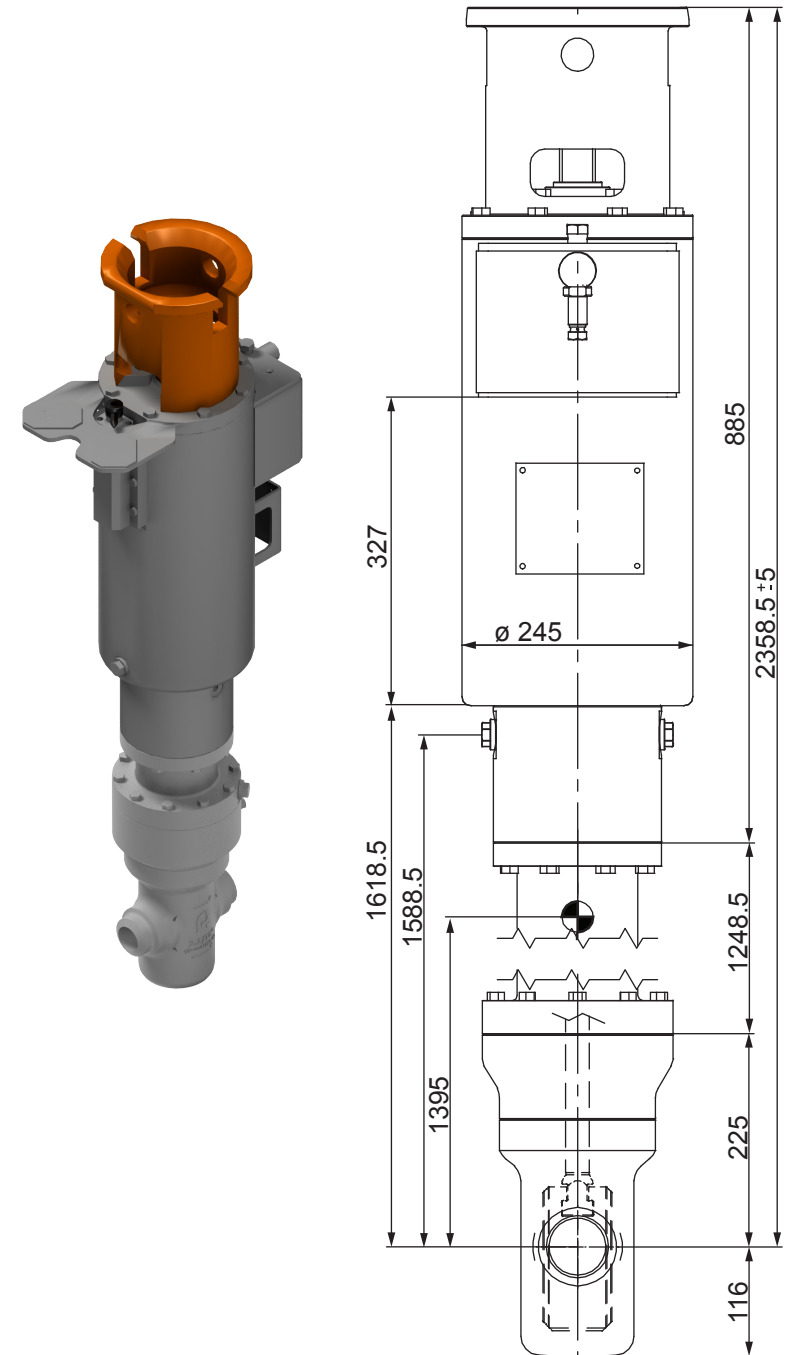
EGINA 147

5 1/8" Gate Valve, ROV operated



EGINA 148

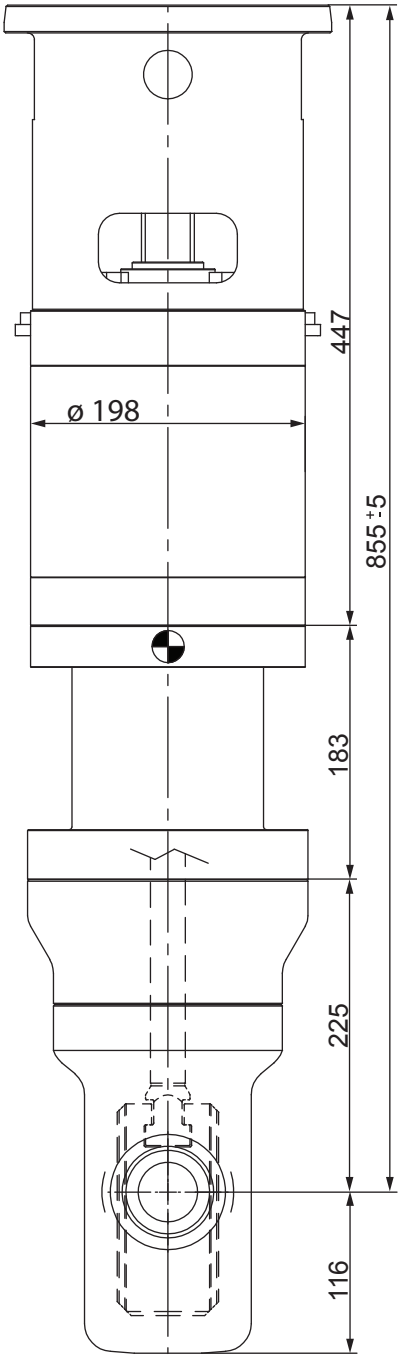
OEM Gate Valve Assy, Subsea, 2.06 inch, Hydraulic Operated



NG-EGN-31-FM18-002405

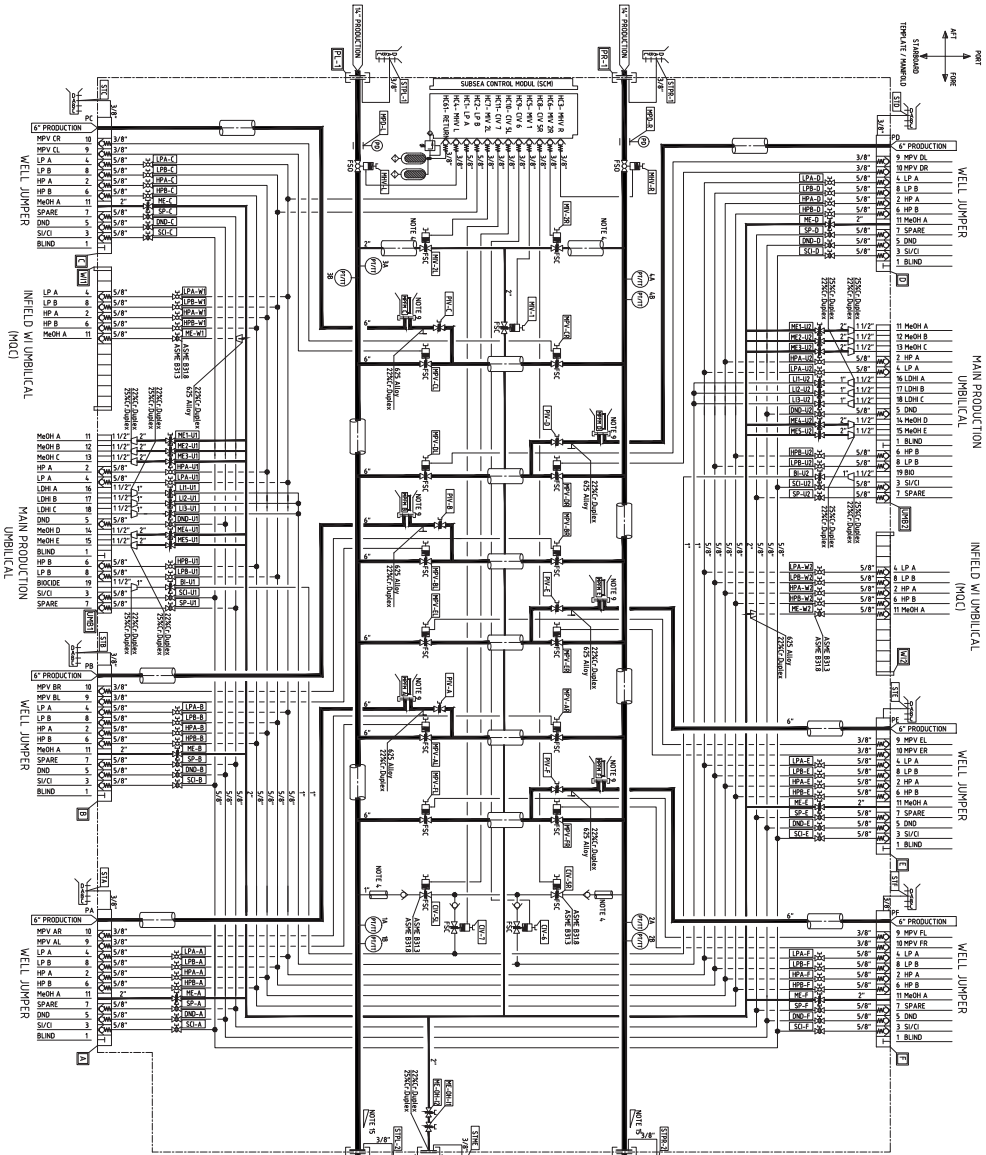
EGINA 149

OEM Gate Valve Assy, Subsea, 2.06 inch, ROV operated



NG-EGN-31-FM18-002407
EGINA 150

Manifold Module flow schematic



Manifold Valve Types

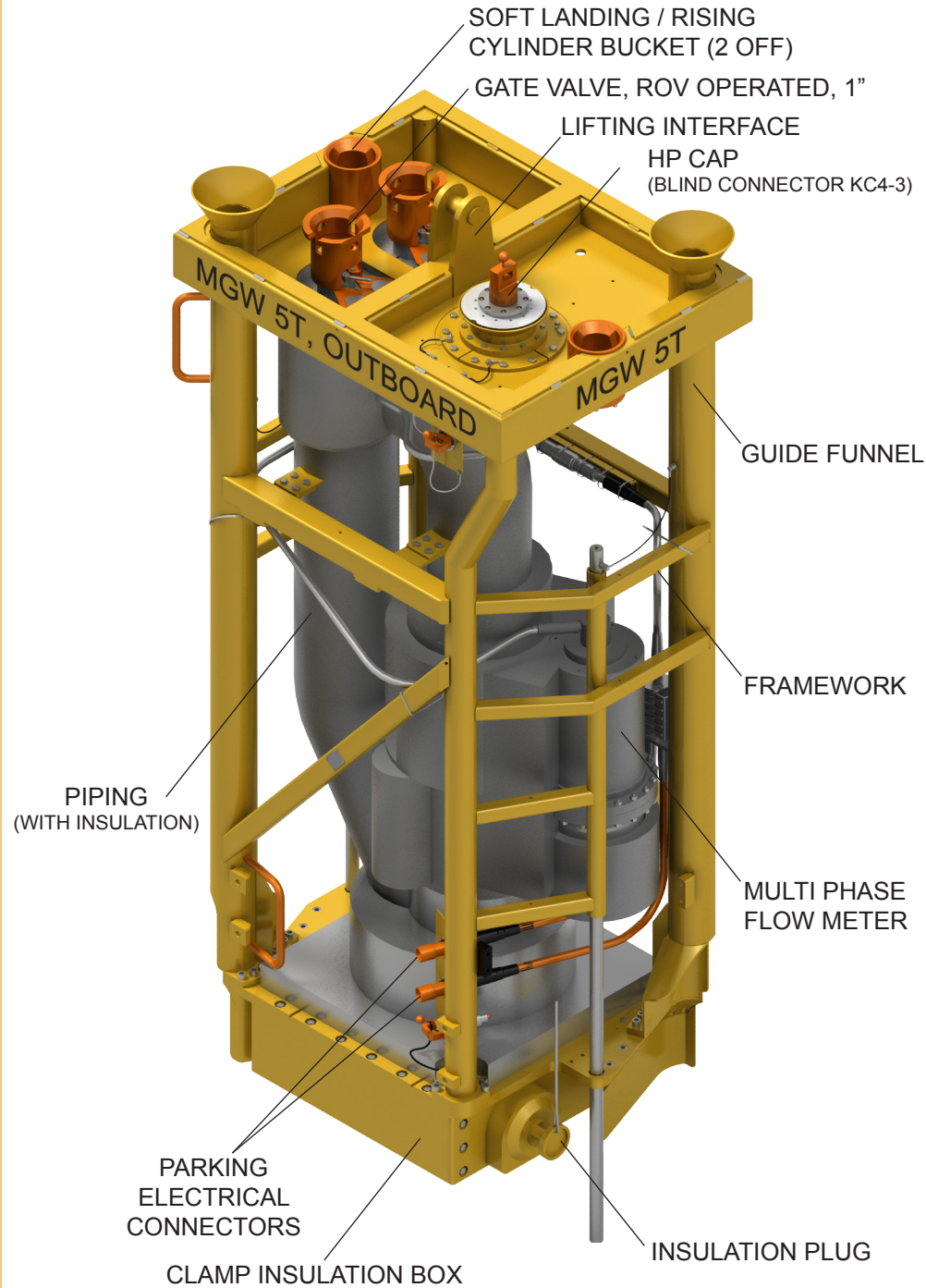
Size	Type	Operation	P/N (Doc. No.)	Qty					
				MDC01	MDC02	MDC03	MDC04	MDC05	MDC06
13 5/8"	Ball	Hydraulic FSO W/ROV	P6000099881 (PDS60087955)	2	2	2	2	2	2
5 1/8"	Gate	Hydraulic FSC W/ROV	P6000112216 (PDS60099934)	12	12	12	12	12	12
5 1/8"	Gate	Manual by ROV	P6000112215 (PDS60099933)	6	6	6	6	6	6
2 1/16"	Gate	Hydraulic FSC w/ROV override	P6000112214 (PDS60099932)	1	1	1	1	1	1
2 1/16"	Gate	Hydraulic FSC w/ROV	P6000112213 (PDS60063340)	2	2	2	2	2	2
2 1/16"	Gate	Manual by ROV	P6000112212 (PDS60099930)	18	18	18	18	18	18
1"	Gate	Hydraulic FSC w/ROV override	P6000108347 (PDS60095912)	4	4	4	4	4	4
1"	Gate	Manual by ROV	P6000108346 (PDS60095911)	8	8	8	8	8	8
1/2"	Gate	Rotary gate	P6000108344 (PDS60095909)	26	26	26	26	26	26
1/2"	Ball	Manual by ROV	P6000108345 (PDS60095910)	40	40	40	40	40	40
1"	-	Check Valve	P6000108343 (PDS60095908)	4	4	4	4	4	4

Valve Operational Data

Valve Description	P/N	Breakout torque (Nm)	Damage torque (Nm)	Running torque (Nm)	Accepted pressure to open or close (Bar)	No. of turns from open to closed*
13 5/8" Ball Valve, FSO w/ROV override	P6000099881	1350	3500	1600	Min 160 Max 345	314.5*
5 1/8" ID Ball Valve, FSC w/ROV override	P6000112216	1800	3500	Min 1800 Max 2700	Min 160 Max 345	35.2*
5 1/8" Gate Valve, ROV Operated	P6000112215	1800	3500	Min 1800 Max 2700	160	17.25*
2 1/16" Gate Valve, , FSC w/ROV override	P6000112214	330	500	Min 330 Max 500	160	21.5+/-1*
2 1/16" Gate Valve, FSC w/ROV override, extended stem	P6000112213	330	650	Min 330 Max 500	Min 160 Max 345	21.5+/-1*
2 1/16" Gate Valve, ROV Operated	P6000112212	330	650	Min 330 Max 500	N/A	6.5*
1" Gate Valve, FSC Actuator w/ ROV override	P6000108347	150	350	160	Min 140 Max 345	6.2*
1" Gate Valve, ROV Operated	P6000108346	130	350	90	N/A	3.3*
1/2" Rotary Gate Valve	P6000108344	N/A	300	Nominal 90 Max 190	N/A	1/4
1/2" Ball Valve, ROV Operated	P6000108345	N/A	407	Min 28 Max 75	N/A	1/4
1" Check Valve	P6000108343	N/A	N/A	N/A	N/A	N/A

* Direction to open for valves above is CCW

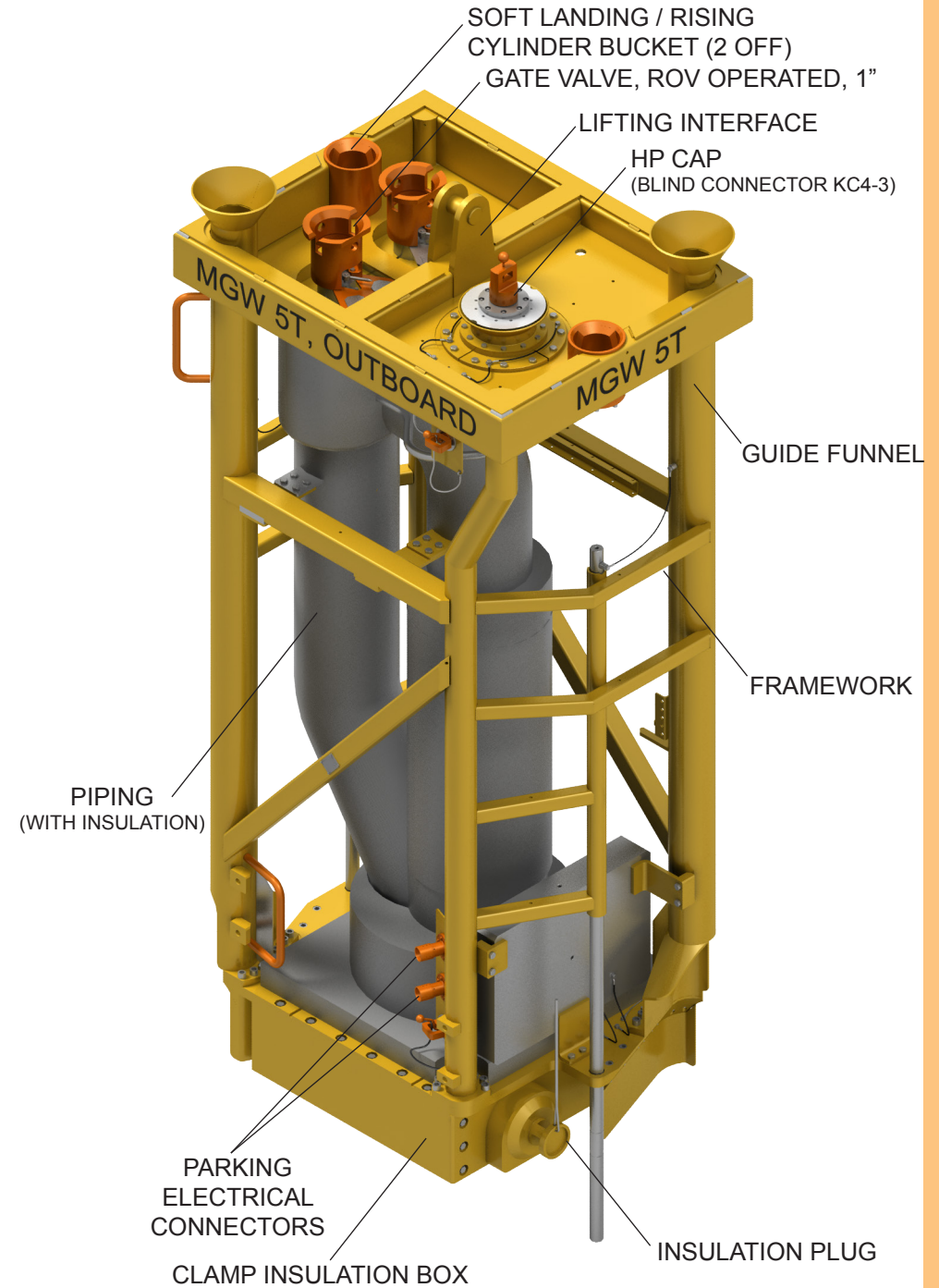
Multi Phase module (MPM)



NG-EGN-31-FMEC-000482

EGINA 154

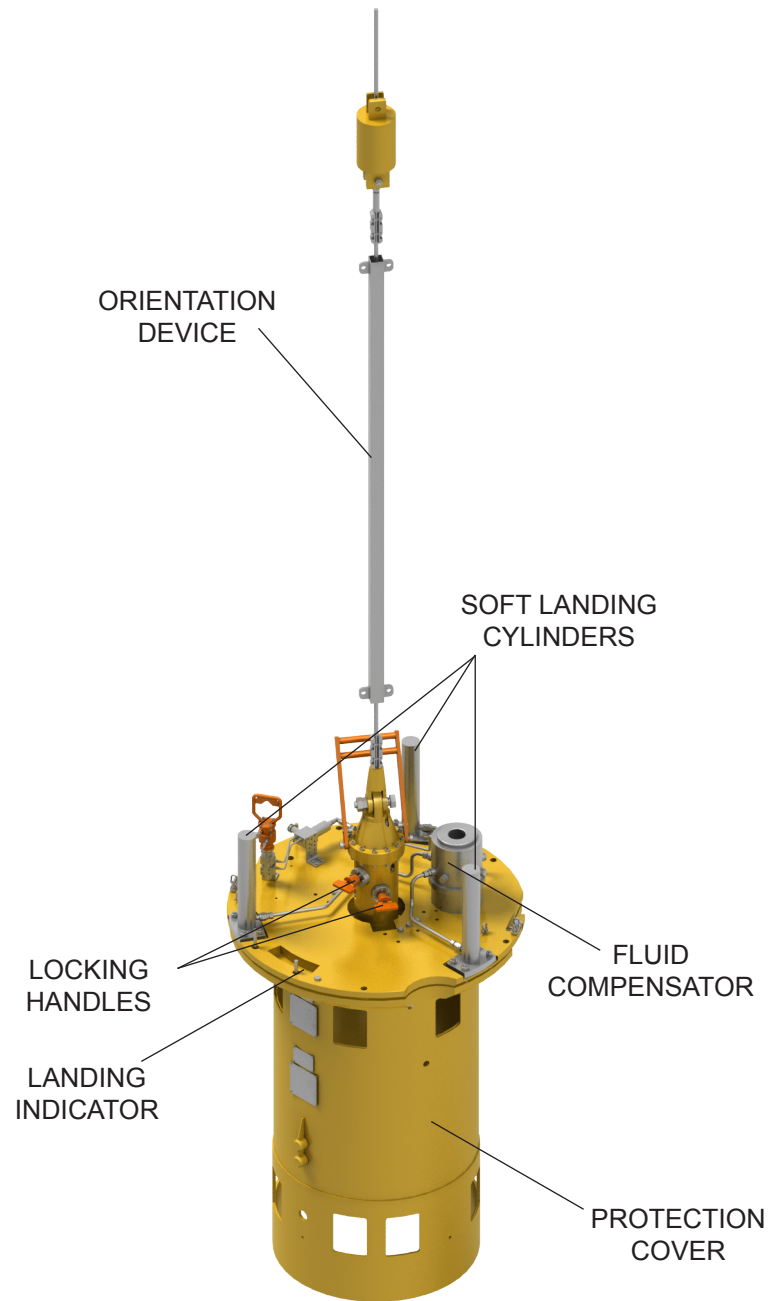
Dummy Multi Phase module



NG-EGN-31-FMEC-000483

EGINA 155

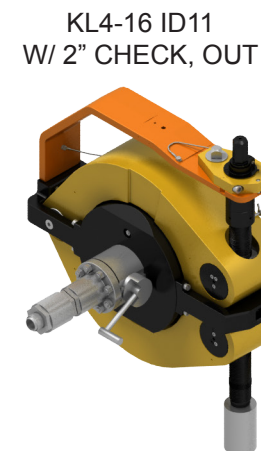
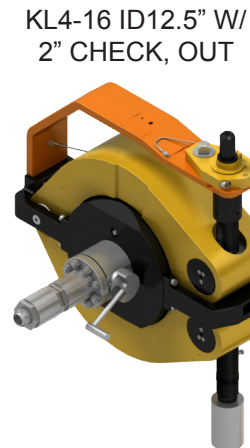
Module Running Tool – SCM MKII



NG-EGN-36-FMEC-001708

EGINA 156

High Pressure Metal Re-Installable (HPMRI) Inboard Caps



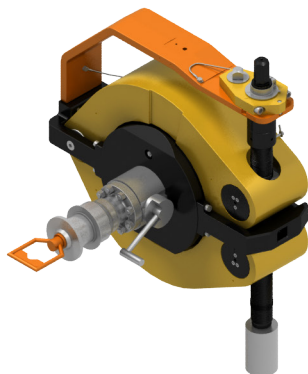
EGINA 157

High Pressure Metal Re-Installable (HPMRI) Inboard Caps

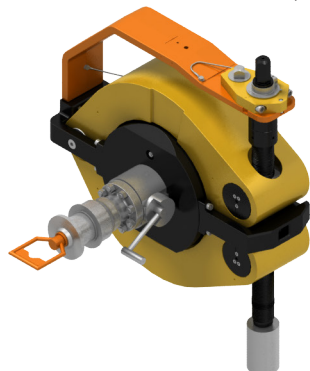
KL4-12 ID1.5" X9
+ 7HL



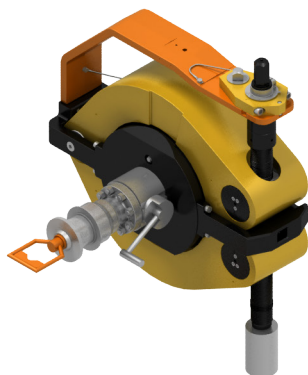
KL4-16 ID12.5"
W/ FLOODING STAB, IN



KL4-16 ID12"
W/ FLOODING STAB, IN



KL4-16 ID11"
W/ FLOODING STAB, IN

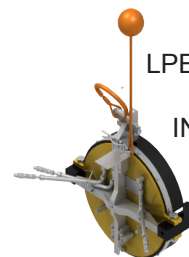


CONNECTOR,
KC4-3, ID 2, 10K KX, 10K WP

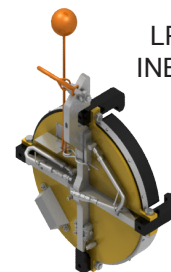


Low Pressure (LP) Inboard and Outboard Caps. Protection Inboard Caps

LPE, KC4-12 ID1.5"
X 9 + 7HL
INBOARD CAP



LPE, KC4-16
INBOARD CAP



KC4-16,
INBOARD
PROTECTION



KC4-12,
INBOARD
PROTECTION



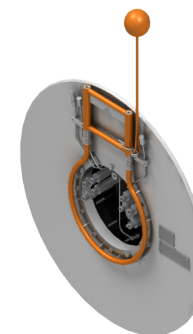
KC4-12 ID6"
OUTBOARD CAP



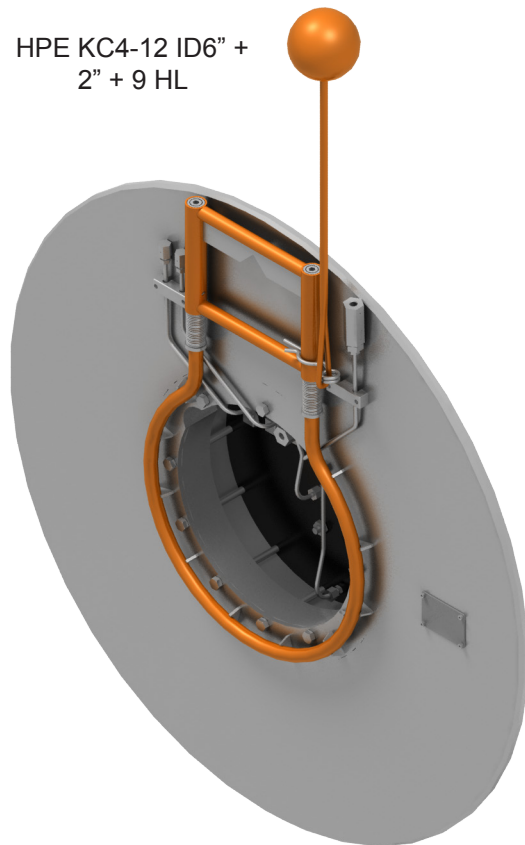
KC4-16
OUTBOARD CAP



KC4-12 ID6"
+ 2" + 9HL
OUTBOARD CAP



High Pressure Elastomer (HPE) Outboard Caps



HPE KC4-12 ID1.5" X 9 + 7HL

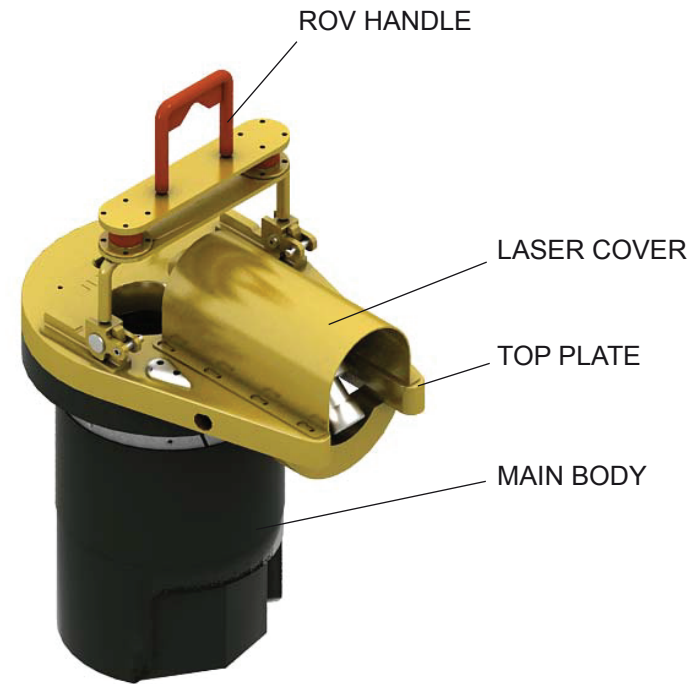


HPE, KC4-12 ID6"

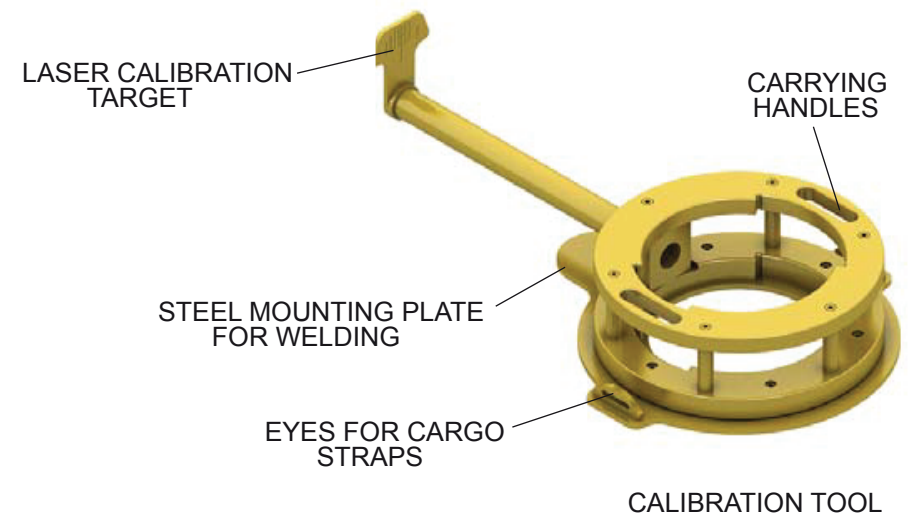


EGINA 160

Tubing Hanger Orientation Check Tool – laser type w/calibration tool



TH ORIENTATION CHECK TOOL



CALIBRATION TOOL

EGINA 161

Subsea Tools - General Equipment

SINGLE LINE COUPLER (1L STAB)



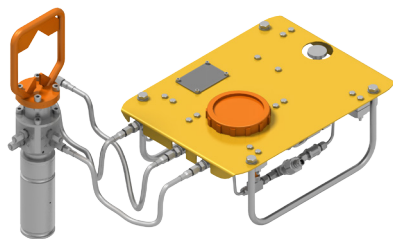
TORQUE ADAPTER KIT



HUB INSPECTION CAMERA, MKII (HIC)



ROV TOOL, EXTERNAL SEAL TEST KIT, ASSY



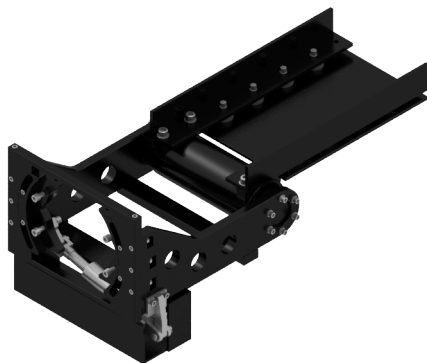
STAB 6L, 345 BAR



WEPCO GUIDE WIRE ANCHOR SWL 4T



FLYING LEAD ORIENTATION TOOL (FLOT)



EGINA 162

Subsea tools - General Equipment

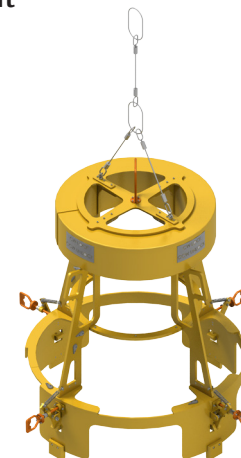
STAB 4L, W/INTENSIFIER, MULTIPURPOSE KIT



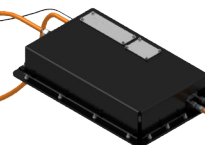
CONNECTOR KC4-3, ID 2"



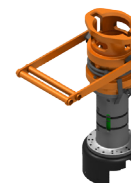
INSTALLATION & RETRIEVAL, SKID F/INSULATION RING



JUMPER LRP/EDP OVERRIDE JACK (WITH BOOSTER)



TORQUE TOOL, CLASS 4 GEAR BOX, W/ INTEGRATED TORQUE ADAPTER, FOR HPMRI CAPS KL 4-12/16



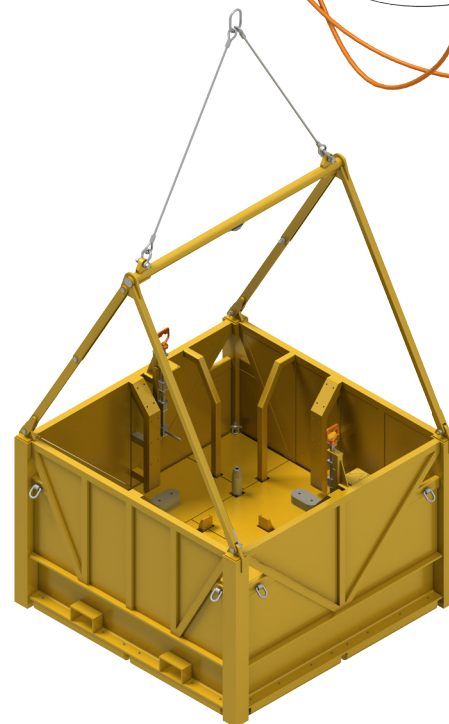
LATCH UNIT TOOL, MULTI FUNCTIONAL, MK4



TORQUE TOOL, API 17D CLASS 1-4 (2700 NM)



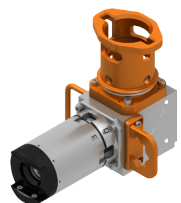
BASKET, F/ INSTALLATION & RETRIEVAL TOOL F/INSULATION RING



EGINA 163

Subsea tools - General Equipment

TORQUE TOOL, GEAR BOX WITH INTEGRATED TORQUE ADAPTER



STAB 4L, 345 BAR, MALE



OVERRIDE JACK, TUBING HANGER ORIENTATION PINN



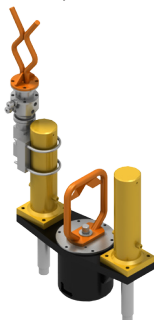
SCM OVERRIDE TOOL, MKII



OVERRIDE JACK, UNIVERSAL, 2T



OVERRIDE JACK, MQC, MKII



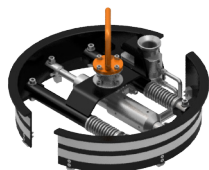
WELLHEAD CLEANING, VX 18 3/4



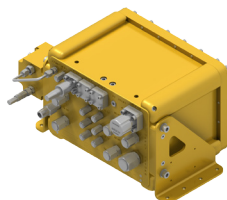
ROV CUTTER



SEAL-REPLACEMENT, WELLHEAD 18 3/4



RCU

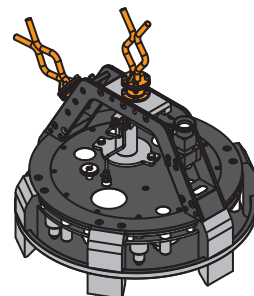


OVERRIDE JACK, KC4-3, TYPE 4

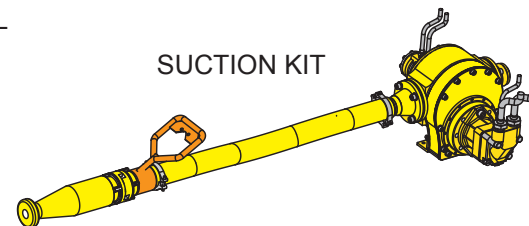


Subsea tools - General Equipment

HUB CLEANING, KC6-17, VERTICAL

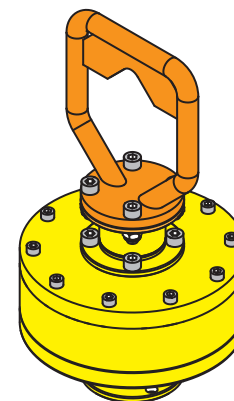


SUCTION KIT



ROV TOOL, HOOK, W/FORERUNNER, WLL 9000 KG, LENGTH 2.5 M, HOOK INTERFACE 75 MM,

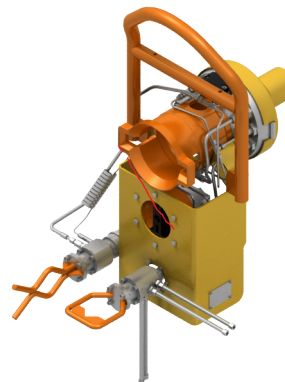
TORQUE CLUTCH 30-130 NM



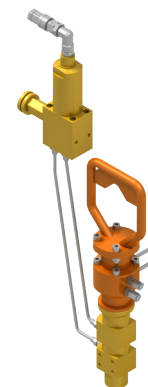
STAB 1L, 2" FOR FLOODING (HPMRI)



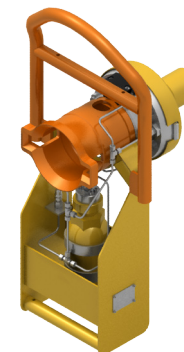
ROV DOCKING FIXTURE, MQC ADAPTER



ROV DOCKING FIXTURE, MQC ADAPTER W/COMPENSATOR



MRT SOFTLANDING EXTENSION KIT



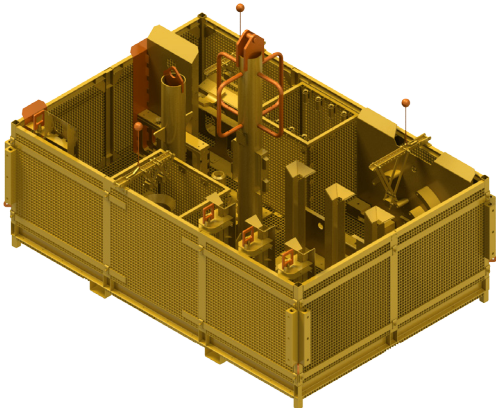
Subsea Tools - UCON General Equipment

RE-INSTALLABLE
LIFTING TOOL,
UCON-H, RSLT



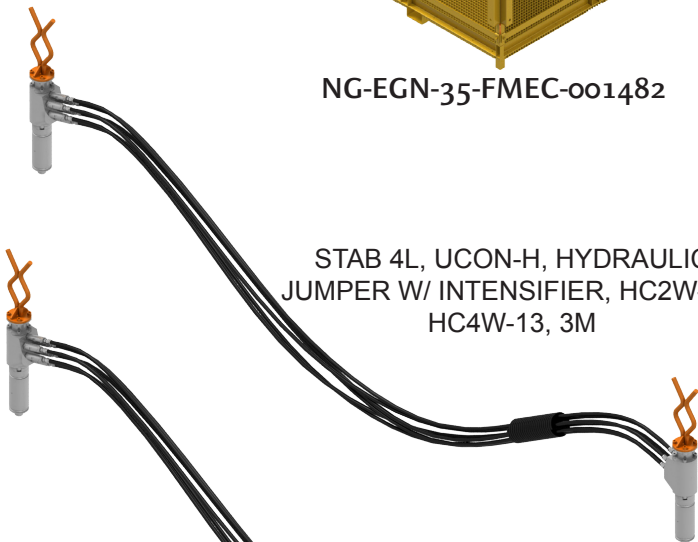
NG-EGN-35-FMEC-004412

BASKET, ROV TOOL FOR
MULTI PURPOSE, UCON

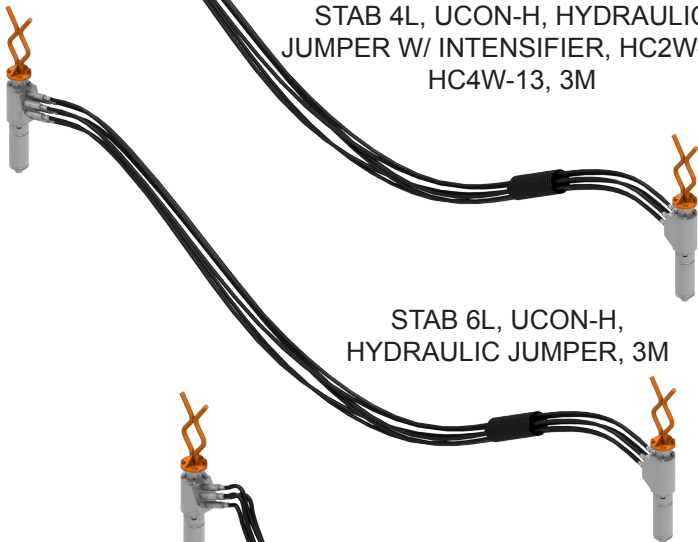


NG-EGN-35-FMEC-001482

STAB 4L, UCON-H, HYDRAULIC
JUMPER W/ INTENSIFIER, HC2W-15/
HC4W-13, 3M



STAB 6L, UCON-H,
HYDRAULIC JUMPER, 3M



STAB 4L, UCON-H,
HYDRAULIC JUMPER, 1.5M



RE-INSTALLABLE
GRAB BAR POST, 2M



Subsea Tools - UCON General Equipment

GUIDE POST,
INTERVENTION,
UCON-H 6.5 M



GUIDE POST,
INTERVENTION,
UCON-H 5.5 M



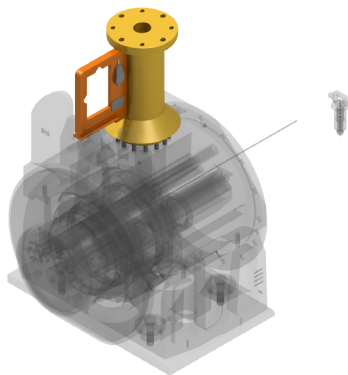
GUIDE POST,
INTERVENTION,
UCON-H, 2.5M



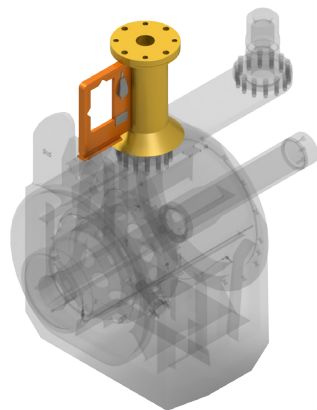
GUIDE POST,
INTERVENTION,
UCON-H, ROV
LIGHTWEIGHT, 1.5M



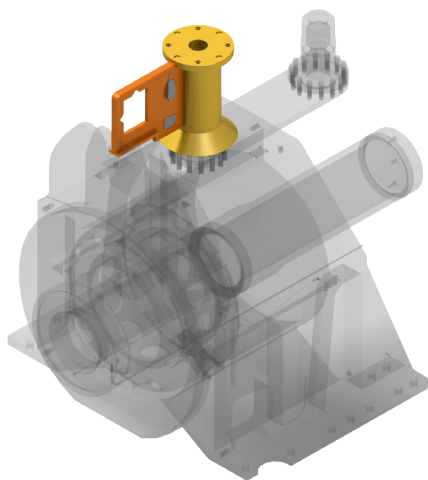
Subsea Tools - Metrology Equipment



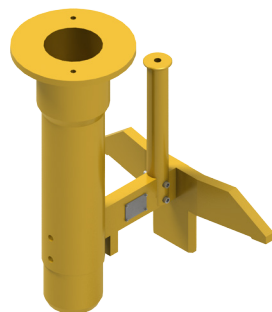
ADAPTER, TELEMETRY
DOCKING FRAME,
W/SINGLE GUIDE POST



ADAPTER, TELEMETRY
DOCKING FRAME, W/
DOUBLE GUIDE POST,
UCON-H-12

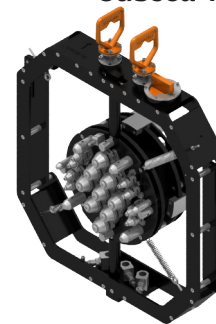


ADAPTER,
TELEMETRY DOCKING FRAME,
W/DOUBLE GUIDE POST, UCON-H-18



ADAPTER, UCON-H-12,
TELEMETRY DOCKING
FRAME, CRADLE INTERFACE

Subsea Tools - UCON 12" Products



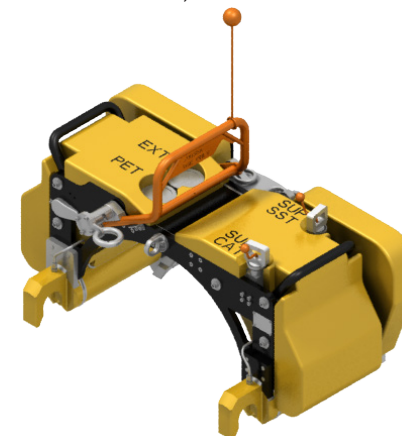
HUB CLEANING TOOL,
UCON-H-12, KC4-12, MULTI-
BORE, ID1.5" X 9 + 7 HL



HUB CLEANING TOOL,
UCON-H-12, KC4-12, MULTI-
BORE, ID6" + 2" + 9 HL



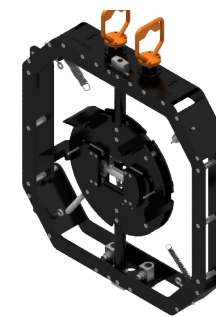
HUB CLEANING TOOL,
UCON-H-12 KC4-12,
INBOARD/OUTBOARD,
MONOBORE



ACTUATION TOOL,
UCON-H-12,
UN-INSULATED



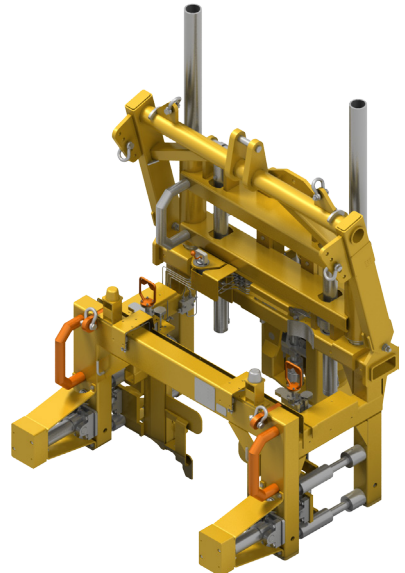
SEAL-REPLACEMENT
TOOL, UCON-H-12,
INBOARD,
MONOBORE



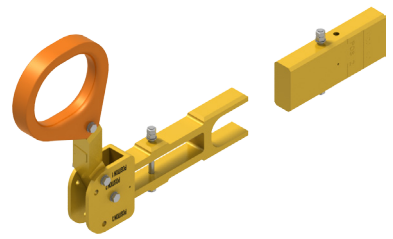
SEAL-REPLACEMENT
TOOL, UCON-H-12,
INBOARD,
MULTIBORE

Subsea Tools - UCON 12" Products

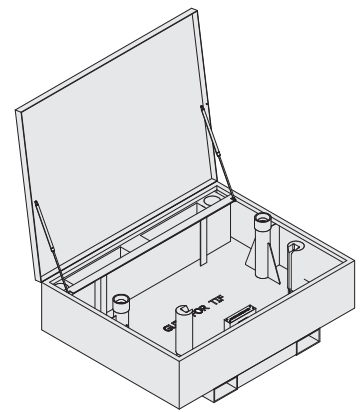
RUNNING TOOL, INBOARD, HIGH
PRESSURE CAP, UCON-H-12



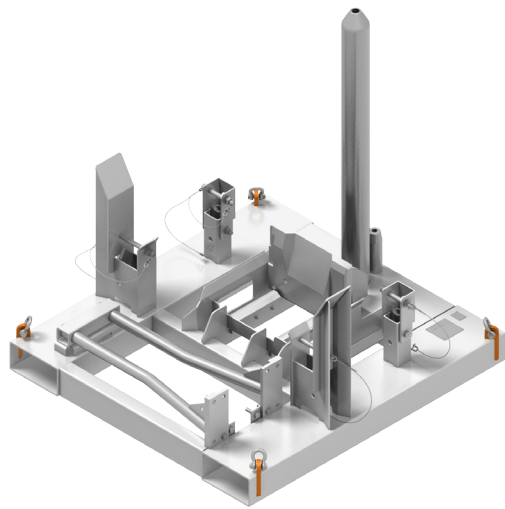
RUNNING TOOL, INBOARD,
HIGH PRESSURE CAP, GUIDE
ARM



ROV TOOL, TEST TOOL,
UCON-H-12, TIF/HCT/SRT



SKID FOR RUNNING TOOL,
INBOARD, HIGH PRESSURE
CAP, UCON-H-12

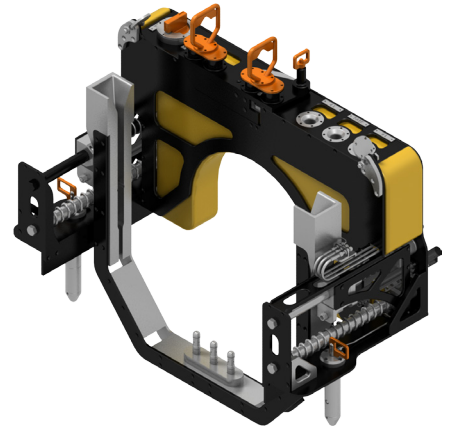


Subsea Tools - UCON 12" Products



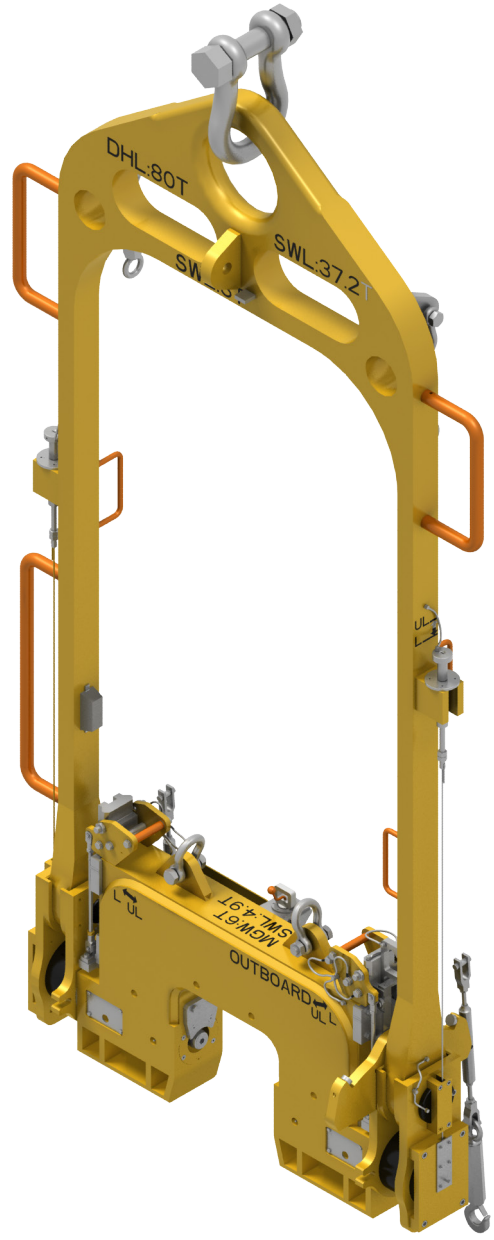
SEALINE
STROKING TOOL,
UCON-H-12

TOOL INTERFACE FRAME,
UCON-H-12



ACTUATION TOOL, UCON-H-12,
INSULATED

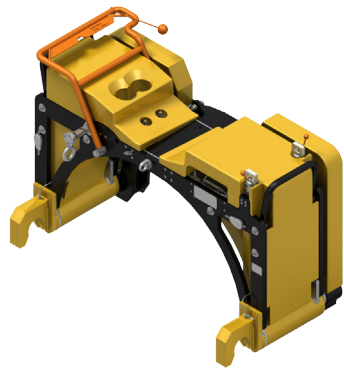
INSTALLATION TOOL,
TERMINATION HEAD,
LIFTING YOKE, FSLT,
UCON-H-12



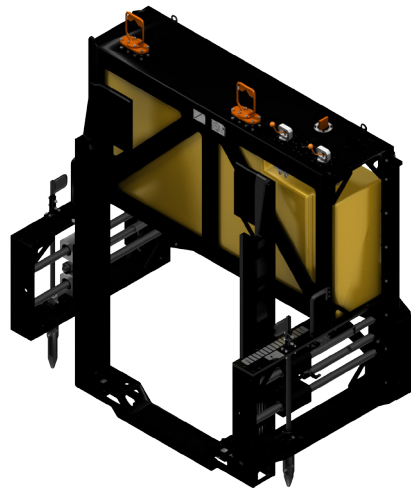
ROV TOOLS

ROV TOOLS

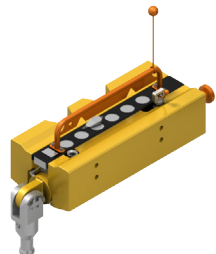
Subsea Tools - UCON 18" Products



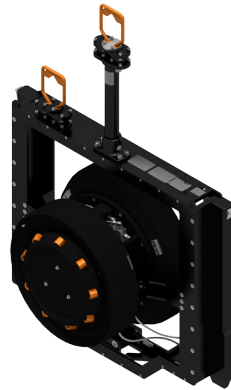
ACTUATION TOOL,
UCON-H-18, INSULATED



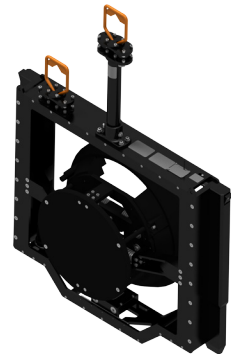
TOOL INTERFACE FRAME,
UCON-H-18, INSULATED



STROKING TOOL, UCON-H-18



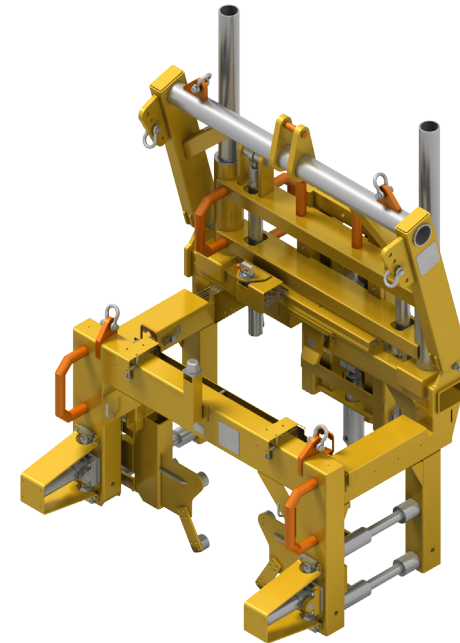
ROV TOOL, HUB CLEANING,
UCON-H-18, INSULATED,
INBOARD/OUTBOARD, HCT,
MONOBORE, ASSY, FOR KC4-16



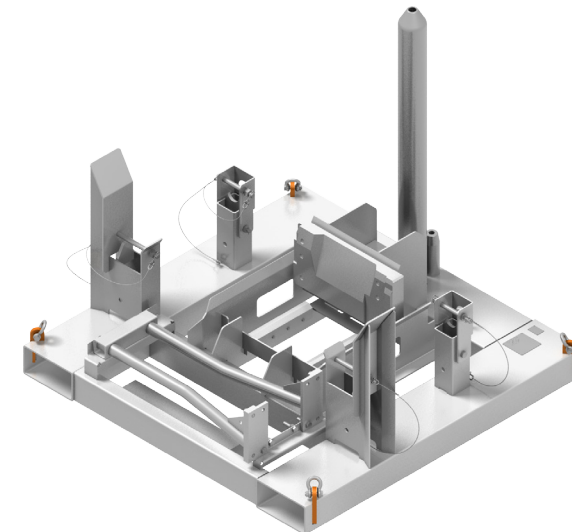
ROV TOOL, SEAL-REPLACEMENT,
UCON-H-18, INSULATED, INBOARD,
SRT, MONOBORE, ASSY,
FOR KC4-16

Subsea Tools - UCON 18" Products

RUNNING TOOL, INBOARD, HIGH
PRESSURE CAP, UCON-H-18 W/SKID



SKID FOR RUNNING TOOL,
INBOARD, HIGH PRES-
SURE CAP



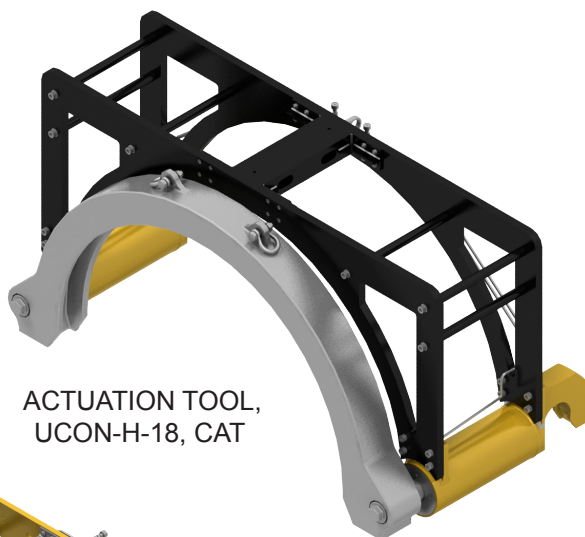
Test/Handling Equipment



STROKING TOOL,
UCON-H-12



STROKING TOOL,
UCON-H-18

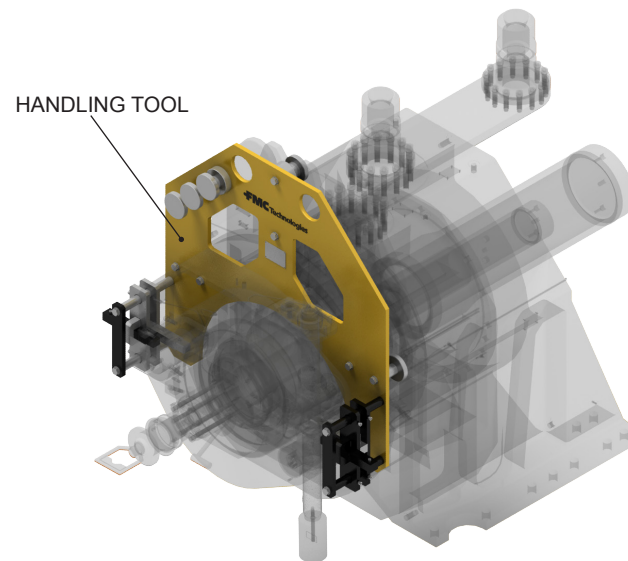


ACTUATION TOOL,
UCON-H-18, CAT

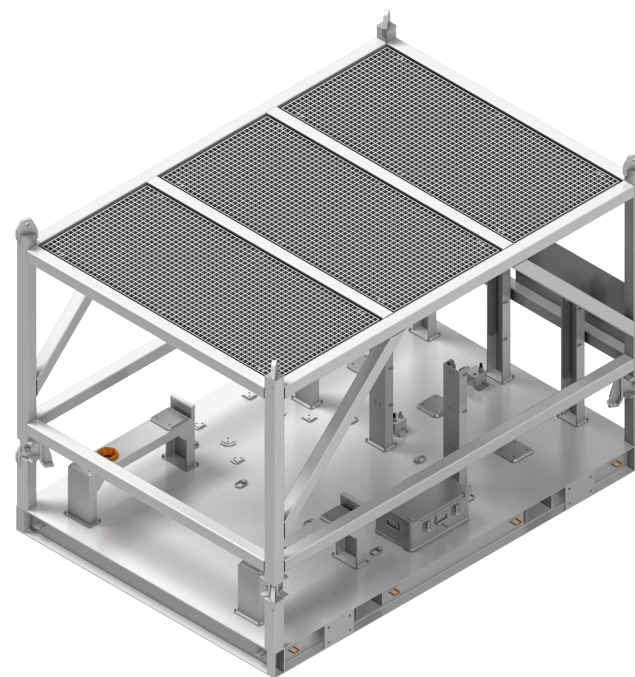


ACTUATION TOOL,
UCON-H-12, CAT

Test/Handling Equipment



WORKSHOP HANDLING TOOL F/
CLAMP HPMRI CAP INSTALLATION



TEST TOOL AND TRANSPORTATION SKID,
UCON-H-18, INSULATED, TIF/HCT/SRT/CRT

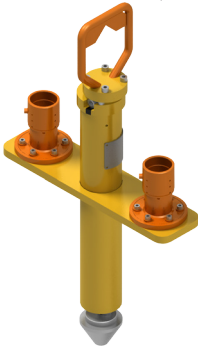
Multi Phase Meter module (MPM) Tools

Well Jumpers

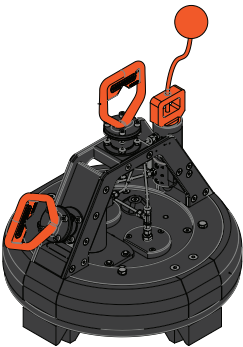
GUIDE POST SET



ROV TOOL, PARKING
FRAME, ASSY,
FOR ODI - NAUTILUS TYPE
OF ELECTRICAL JUMPERS



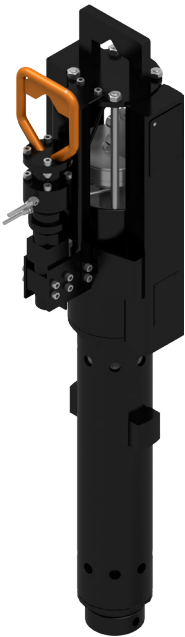
ROV TOOL, HUB
CLEANING, KL4-10,
4 IN + 4 IN



ROV HOOK WITH
FORE RUNNER



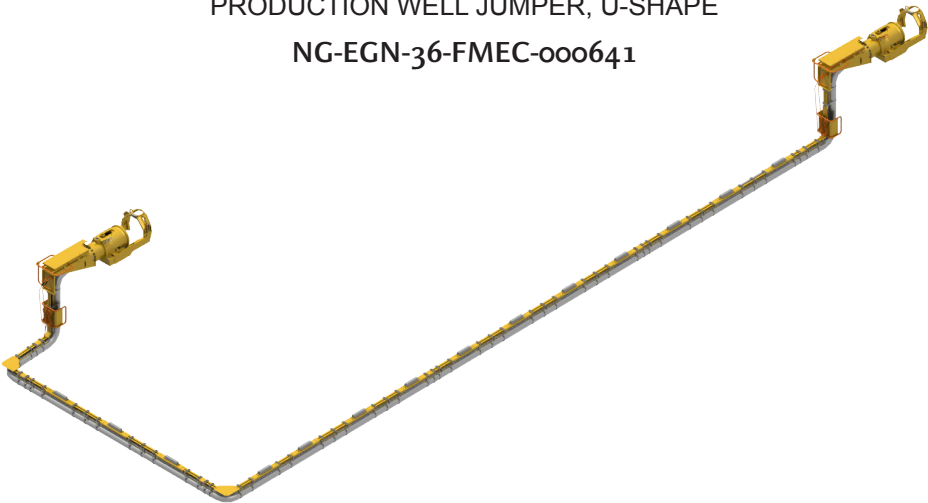
ROV TOOL, SOFT LANDING/
RISING CYLINDERS



PRODUCTION WELL JUMPERS, U SPECIAL SHAPE
NG-EGN-36-FMEC-000646

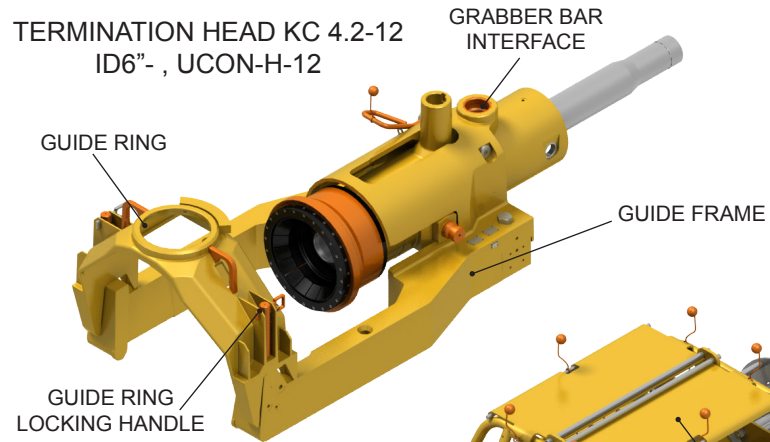


PRODUCTION WELL JUMPER, U-SHAPE
NG-EGN-36-FMEC-000641

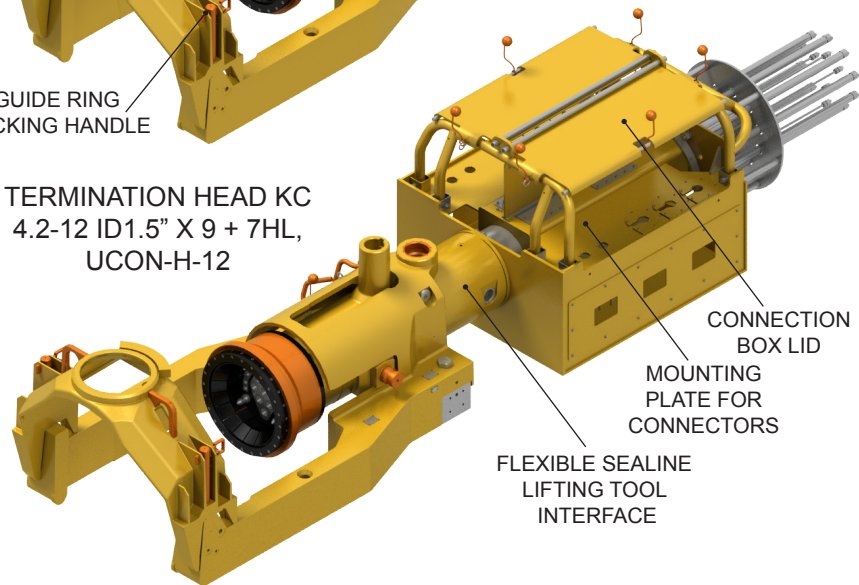


Termination Heads

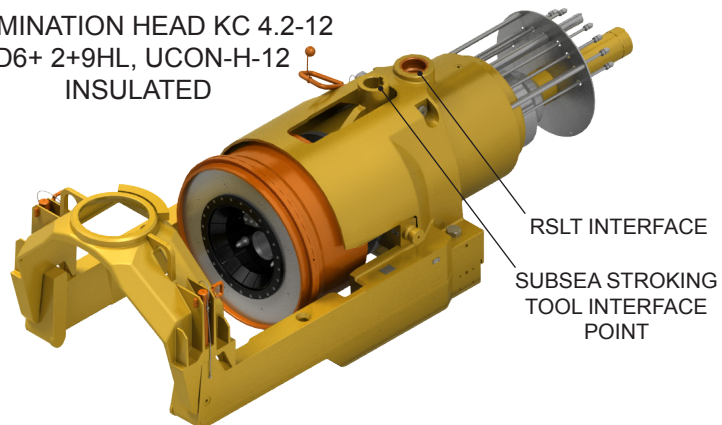
TERMINATION HEAD KC 4.2-12
ID6"- , UCON-H-12



TERMINATION HEAD KC
4.2-12 ID1.5" X 9 + 7HL,
UCON-H-12

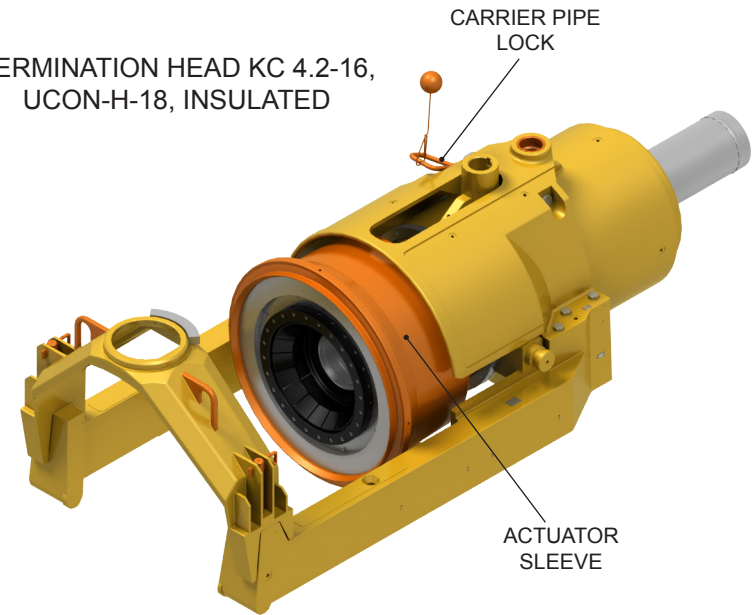


TERMINATION HEAD KC 4.2-12
ID6+ 2+9HL, UCON-H-12
INSULATED

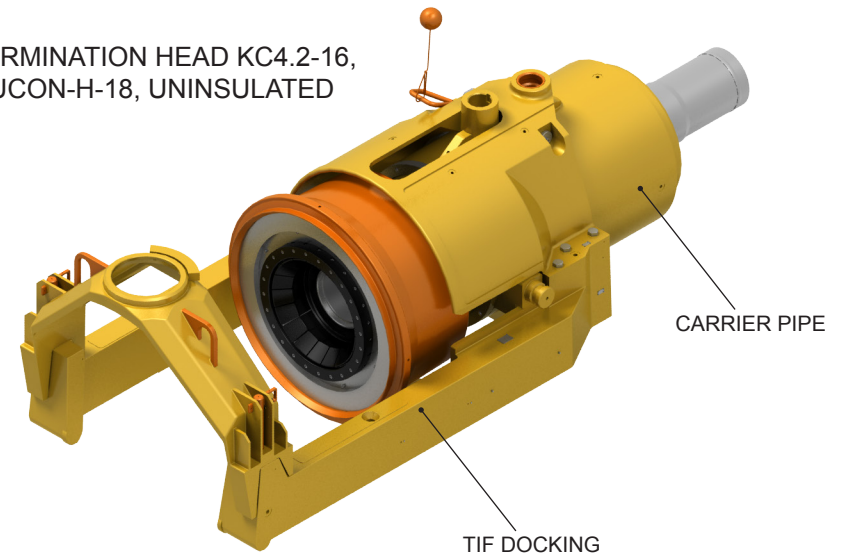


Termination Heads

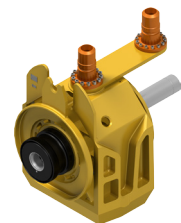
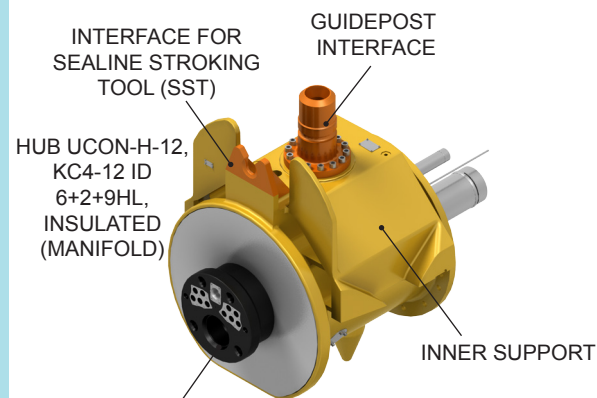
TERMINATION HEAD KC 4.2-16,
UCON-H-18, INSULATED



TERMINATION HEAD KC4.2-16,
UCON-H-18, UNINSULATED



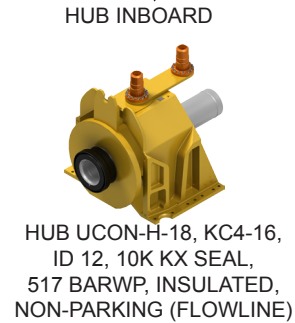
Hubs



HUB UCON-H-12, KC4-12, ID 6, 10K KX SEAL, 500 BAR WP (WATER INJECTION)



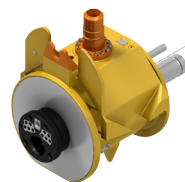
HUB UCON-H-12, KC4-12, ID 6, 10K KX SEAL, WP, XT



HUB UCON-H-18, KC4-16, ID 12, 10K KX SEAL, 517 BAR WP, INSULATED, MANIFOLD (FLOWLINE)



HUB UCON-H-12, KC4-12, ID 1 1/2 (9X) + 7HL, 10K KX SEAL, 517 BAR WP (UMBILICAL)

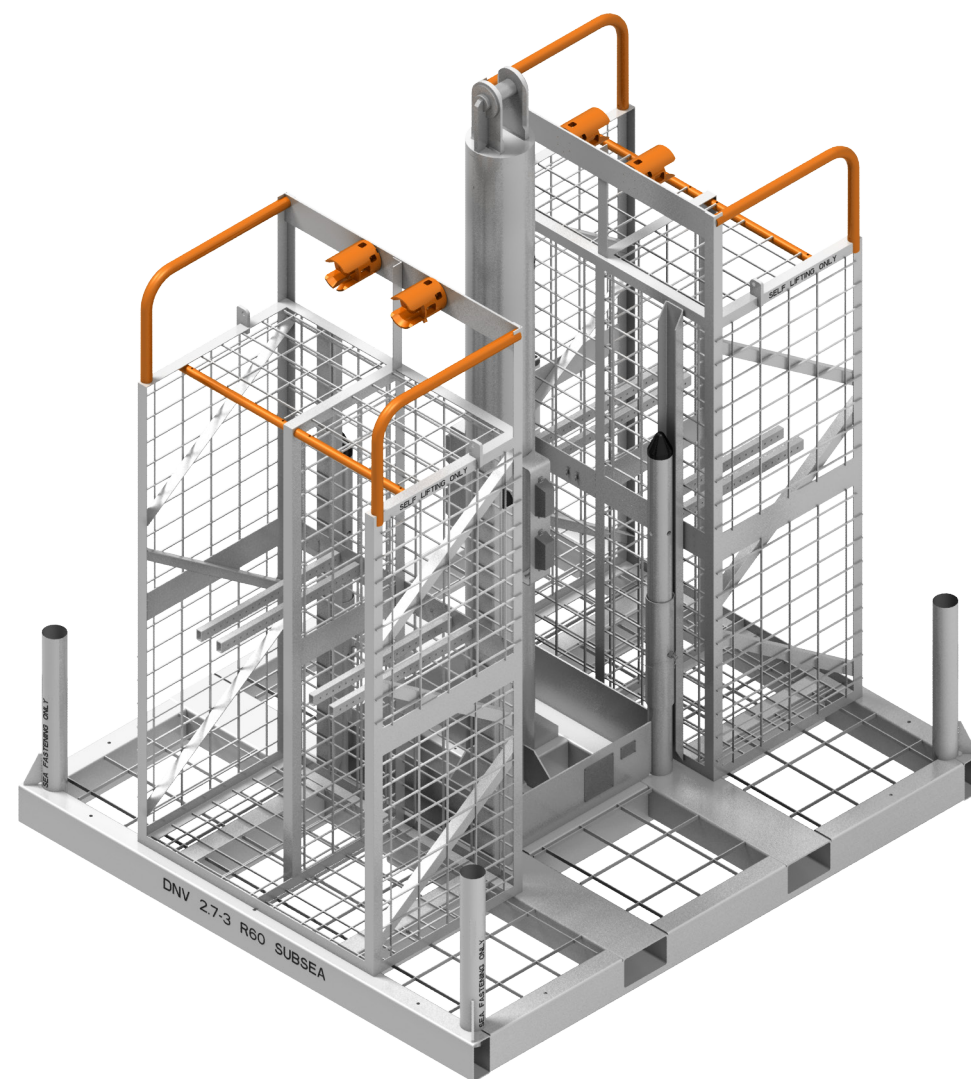


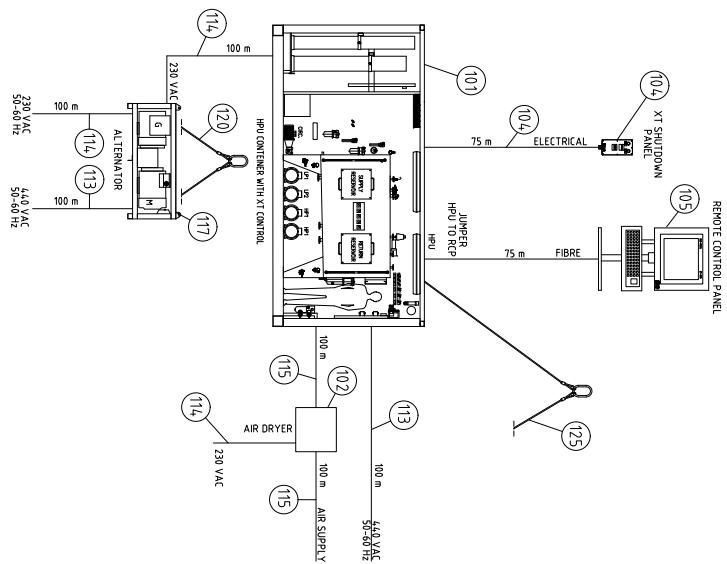
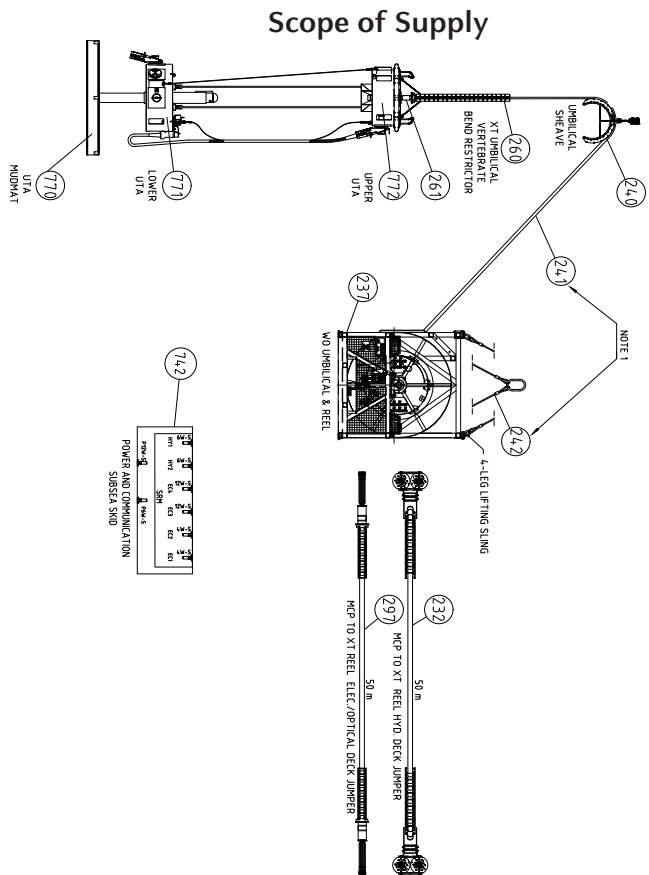
HUB UCON-H-12, KC4-12, ID 6 + 2 + 9HL, 10K KX SEAL, 690 BAR WP, INSULATED, XT



MANIFOLD, MPFM, INBOARD HUB, KL4-10, ID4+4

Basket for Flying Leads

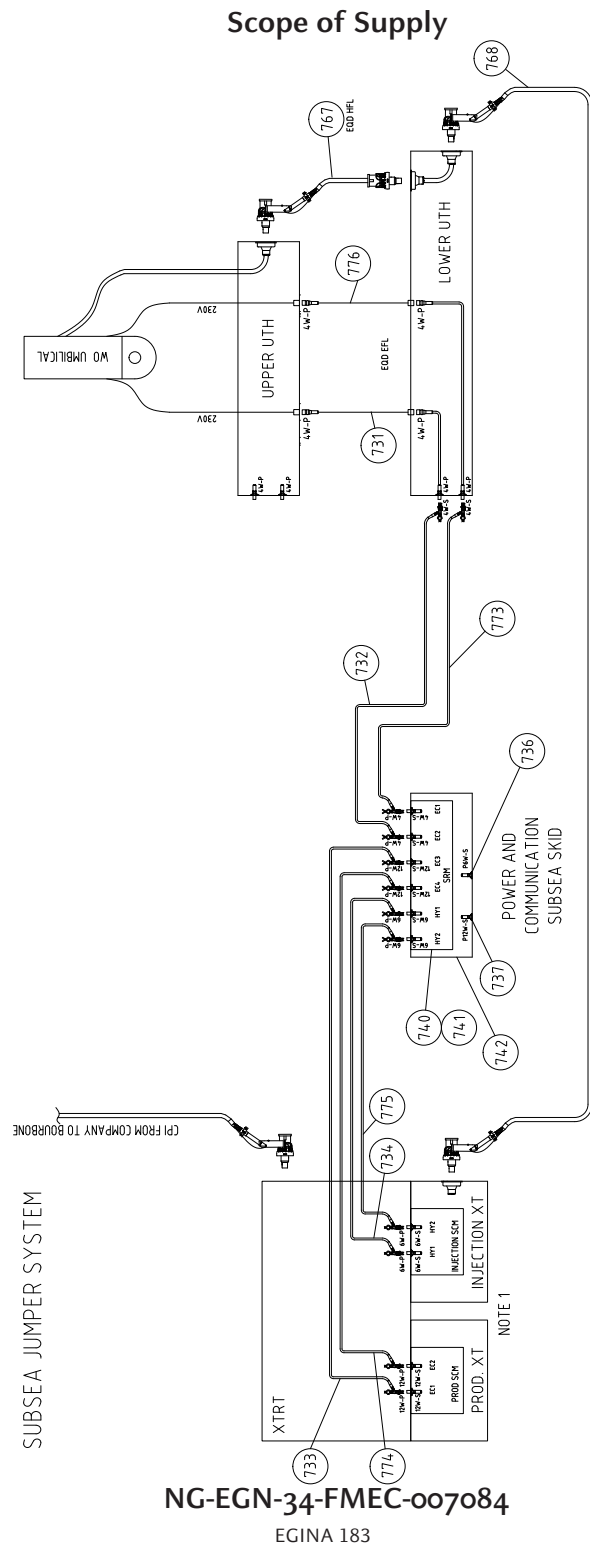




NG-EGN-34-FMEC-007084
EGINA 182

NOTES.

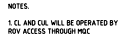
1. UMBILICAL AND SLING IS PART OF COMPLETE UMB. AND REEL SYSTEM



NOTES:
1 - MINI IWOCs SYSTEM WILL ONLY INTERFACE 1 XT AT A TIME.
BOTH TYPES OF XT ONLY SHOWN FOR INFORMATION.

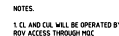
NG-EGN-34-FMEC-007084
EGINA 183

MINI-IWOCs



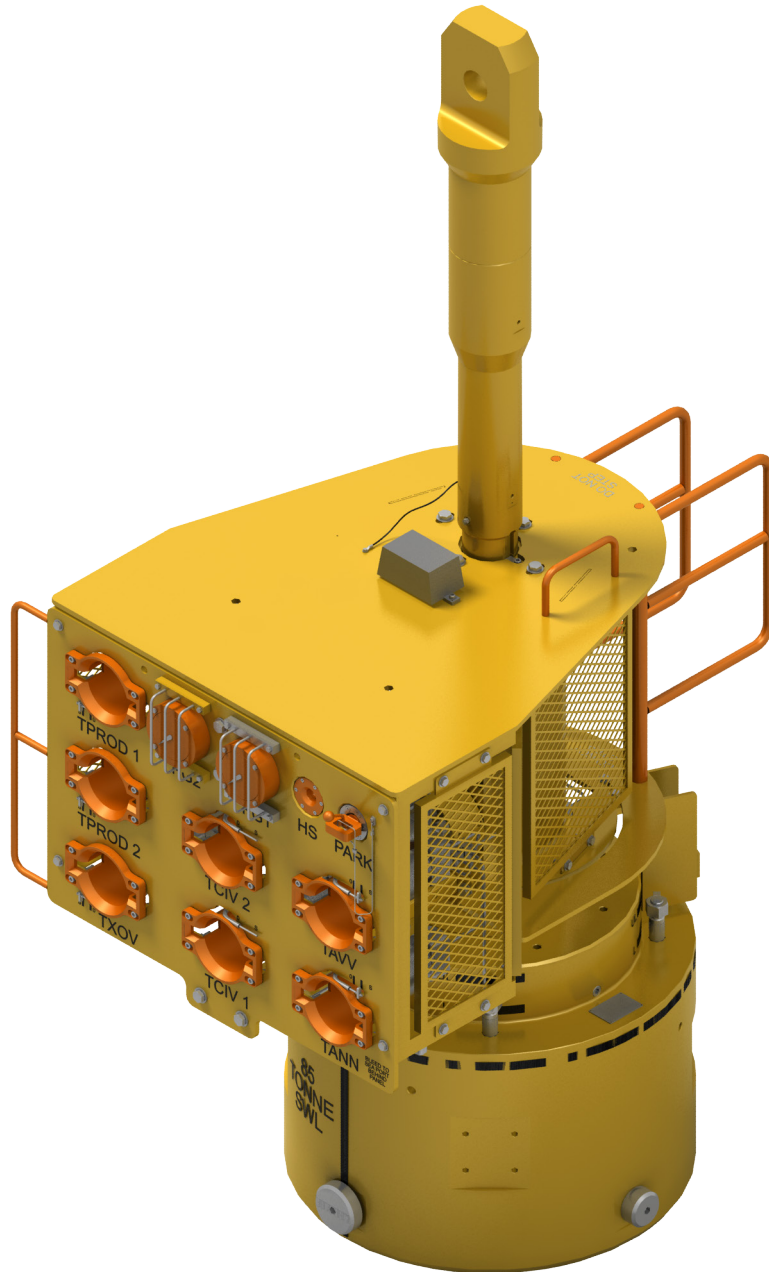
EGINA 184

MINI-IWOCs



EGINA 185

Tree on Wire Running Tool



NG-EGN-32-FMEC-005883

EGINA 186

Component Dimensions and Weight

Description	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
Topside Electrical Equipment					
SCU 200, MARSHALLING CABINET, HPU CONTROL CABINET	P6000104657	800	800	2360	295
SCU 200, PANEL, SUBSEA WELLS CONTROL CABINET NO.1	P6000113611	800	800	2360	378
SCU 200, PANEL, SUBSEA WELLS CONTROL CABINET NO.2	P6000113612	800	800	2360	337
SCU 200, PANEL, SERVER CABINET NO.1	P6000113613	800	1000	2360	265
SCU 200, PANEL, SERVER CABINET NO.2	P6000113614	800	1000	2360	265
SPCU 200E, 1 X 3	P6000104659	1006	1035	2163	630
SDPU, CABINET	P6000104658	806	1036	2175	390
JUNCTION BOX, OPTICAL	P6000114049				
Topside Electrical Test Equipment					
SENSOR SIMULATOR, SESI CABINET SCM PROD, -WI, -MAN-IFOLD	P6000104293	575	720	530	36
TEM SIMULATOR 200E, 4 OFF TPU600	P6000104630	84HP	298	2HE/U	3,5
PSEMS 200E	P6000104655	575 ± 5	930 ± 5	800 ± 5	105
SENSOR SIMULATOR (FOR MPFM. SENSORS TO BE SIMULATED ARE LISTED IN THE LINKED SPECIFICATION)	P6000104549				
SENSOR SIMULATOR, HIGH FLOW CITV	P6000107018				
SENSOR SIMULATOR, FOR LOW FLOW CITV, 0.3-78.9 LPH	P6000123126				
SPCTU 200E, 2.2KVA, SEPERATE 230VAC AND 620VAC OUTPUT POWER FEEDS, WITH MRM AND FIBER COMMUNICATION	P6000120749	575	930	800	178
TRANSPORTATION BOX ASSY, F/ TOPSIDE, LAPTOP, WIN 7 32BIT, NO-KB, SERIAL LINE	P6000123574				7,2
Topside Hydraulic Equipment					
HPU, PRESSURE REGULATED, SYSTEM WITH LP AND HP PUMP	P6000104294				

EGINA 187

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
HPU, EXTENSION SKID, ACCUMULATOR SKID FOR P6000104294	P6000118190	3200	5650	4020	32500
HPU, PRESSURE REGULATED, PLC CABINET	P6000123235	3000	1000	3240	13500
Subsea Accoustic Monitoring System					
ACOUSTIC MONITORING SYSTEMS (SAMS), TOPSIDE ASSY	P6000104568				115
ACOUSTIC MONITORING SYSTEMS (SAMS), SUBSEA ASSY	P6000104569				140
ELECTRICAL JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, SAMS EC -XT DH EC	P6000125469	29,2	10000		
ACOUSTIC, PORTABLE INTERFACE UNIT, SAMS, I-WAND PORTABLE TESTER	P6000127362	84	276		0,8
ACOUSTIC, PORTABLE INTERFACE UNIT, SAMS, SUBSEA TOOL KIT	P6000127363				5
SCM/MCM/SRM Equipment					
SCM MK III, 620, PROD	P6000104111	855		1802	1760
SCM MK III, 620, INJ	P6000104112	855		1806	1745
SCM MK III, 620, MAN	P6000104113	855		1802	1670
SUBSEA ROUTER MODULE (SRM), MK III, 620, MANIFOLD	P6000104114	855		1813	1670
SUBSEA ROUTER MODULE (SRM), MK III, 620, SDU	P6000104115	855		1809	1600
ACM, ASSY, TOTAL STD 2013 (DIU)	P6000104116	637		1818	291
SCM DUMMY, MK III	P6000104117	852		1708	752
SKID, TRANSPORT F/ RUNNING TOOL, MRT / SCM MK III, LOW LOCKING MECHANISM	100015276	1436		3709	735
Subsea Distribution Equipment					
HYBRID JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, SDU, SRM B HY2- XT 2 HY2, 100M	P6000130876	29,2	100000		
HYBRID JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, SDU, SRM B HY1 - XT 1 HY2, 100M	P6000130875	29,2	100000		

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
HYBRID JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, SDU, SRM A HY1 - XT1 HY1, 100M	P6000130878	29,2	100000		
HYBRID JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, SDU, SRM A HY2 - XT2 HY1, 100M	P6000130877	29,2	100000		
HYBRID JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, UTA HY2 - XT HY2	P6000103449	29,2	75000		
HYBRID JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, UTA HY2, XT HY2, 100M	P6000130880	29,2	100000		
HYBRID JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, UTA HY1, XT HY1, 100M	P6000130879	29,2	100000		
HYBRID JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, UTA HY1 - XT HY1	P6000104336	29,2	75000		
MQC-13 MK II, INBOARD PARKING, F/ PRESSURE CAP 5 LINES, 1 NCC FOR SDU	P6000116788	350	307,9		34
MQC-13 MK II, INBOARD ASSY, F/ COMPENSATION. INSTALLATION AND TEST TOOL FOR COBRA HEAD	P6000125211	580	7379,9		95
MQC-13 MK II, OUTBOARD ASSY, F/ COMPENSATION, INSTALLATION AND TEST TOOL FOR UTA	P6000128776	510	3854		105
ELECTRICAL JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, CHA MAN EC, CHA UTA EC	P6000131763		15000		
WellHead System					
UWD-15, WELLHEAD HSG WELDMENT, 18-3/4-15K H4 PROFILE, W/ 21 OD X 0.625 W /T CASING, X-80 GRADE X LEOPARD OILSTATES CONNECTOR PIN DOWN	P2000040739	801,63	12352,02		5741
UWD-15, CASING HANGER ASSY, 18 3/4 X 14, W/ VAM TOP KB THREADED BOX W/ P 110 PUP JOINT VAM TOP-KB PIN DOWN. ASSY 253.5 IN LG ***DOWNRATED TO 10KS I DUE TO INCREASED FLOWBY***	P2000040740	471,5	6440,5		1092

Component Dimensions and Weight

Description	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
SPACER SLEEVE ASSY, 18 3/4 X 10 3/4 CASING HANGER, W/ INCREASED FLOWBY	P205457-0019	471,5	533,4		282
UWD-15, CASING HANGER ASSY, 18 3/4 X 10 3/4, W/ PUP JOINT AND CROSSOVER. VAM TOP HC-NA PIN DOWN, ASSY 289.29 LG. ****DOWNRATED TO 10KSI DUE TO ENHANCED FLOWBY****	P2000040741	471,4	7347,96		1001,98
UWD-15, ANNULUS SEAL ASSY, M2M F/ 18 3/4-15K, W/ LOCKDOWN SEGMENTS AND CAGED ENERGISING MANDREL, RATED FOR 15K BORE AND 10K ANNULUS PRESSURE	P205799	471	298		56
UWD-15, ANNULUS SEAL ASSY, ELASTOMER F/ 18 3/4-15K, W/ LOCKDOWN SEGMENTS AND CAGED ENERGISING MANDREL, RATED FOR 15K BORE AND 10K ANNULUS PRESSURE	P205871	471	287		59
TEMPORARY ABANDONMENT CAP ASSY, 18 3/4 H4 PROFILE, ROV STYLE, ROV RUN & RETRIEVED, W/ FKS-K 4L HOT STAB RECEPTACLE, PLUMBED F/ LIGHT WEIGHT FLUID	P2000002521	959	950,6	1445,9	81
O-RING, .275 CS X 34.75 ID, E50107 70A DURO GENERAL SVC & COMMERCIAL NBR MATL, SPLICED & VULCANISED	P217507				0,045
UWD-STD, CONDUCTOR HSG WELDMENT, 36, W/ 36 OD X 2 W/T CASING, X-56 GRADE X LEOPARD OILSTATES CONNECTOR PIN DOWN, CW/ GASMAT RECEPTACLE.	P2000050226	961,6	1003,3		19 012
UWD GAS MAT ASSY, 12 FT X 12 FT, STRIP OVER, NON-RETRIEVABLE, TOTAL EGIN A SPECIFIC	P2000040833	3657,6	3937,6	838,2	4210
WellHead System Handling Equipment					
UWD, ASSY, 30/36 FALSE ROTARY TABLE TOOL, F/ STD, RL, RLSD, LB	P114944-0019	965,2		304,8	542,8

Component Dimensions and Weight

Description	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
SUPPORT PLATE ASSY, F/ WELLHEAD HOUSING, H4 PROFILE, 18-3/4 HANG-OFF PLATE, 250TON (500, 000 LBS) SWL.	P2000005324	1168,4		325,6	961
UWD, ASSY, 18 3/4 FALSE ROTARY TABLE TOOL, F/ WELLHEAD HSG	P114942-0019	716,92		294,9	194
UWD, ASSY, F/ 18 3/4 HANG OFF PLATE TOOL	P2000009684	1460,5			1555
FABRICATION ASSY, WELLHEAD TOOLS CONTAINER, EXTENDED HEIGHT, D.N.V. 2.7- 1 RATED, W/ LOCKABLE WORKSHOP.	P2000011121	2469	2964	3157	6527
SUPPORT PLATE ASSY, F/ CONDUCTOR HOUSING, 36IN HANG-OFF PLATE	P2000005301	1256,5		167,6	207
EXTENSION SUB, (W/ ELEVATOR NECK) 4 1/2 API IF (NC50) BOX TOP X 4 1/2 API IF (NC50) PIN BTM X 40.44 LG, GRADE 120K *FOR RIG HANDLING ONLY NOT FOR USE SUBSEA*, (36 SHOULDER TO SHOULDER) W/ THREAD PROTECTORS	P2000012890	161,93	1028,7		65
EXTENSION SUB, (W/ ELEVATOR NECK) 6 5/8 API REG BOX TOP X 6 5/8 API REG PIN BTM X 41 LG, GRADE 120K *FOR RIG HANDLING ONLY NOT FOR USE SUBSEA*, (36 SHOULDER TO SHOULDER) W/ THREAD PROTECTORS	P2000012892	206,375	1041,4		153
LIFTING SUB, NC50 (4-1/2 API IF) PIN CONNECTION, SWL 55 TONNES	DP-51-1415	162,71		508	59
LIFTING SUB, 6 5/8 API REG BOTTOM BY LIFTING PADEYE FOR BOLT TYPE ANCHOR SHACKLE. SWL 50 TONS	18-222-275	195,6	355,6		39
UWD TOOL STAND, NC50 (4-1/2 IF) BOX CONNECTION FOR MF TOOL	18-322-790				87,1

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
SHACKLE, BOLT-TYPE ANCHOR, 2 IN NOM SIZE, 35 METRIC TON WORKING LOAD LIM IT, SUP-PLIED BY CROSBY, MODEL NO G-2130, STOCK NO 1019677, W/ 2.30 IN (5 7.0 MM) DIA BOLT	18-322-729				16
SLING ASSY, 13.5 TON OFF-SHORE SWL, 5X SAFETY FACTOR, 60-90 DEG, 4-LEG 5/ 8 IN WIRE ROPE BRIDLE, 120 IN LG W/ 1-1/2 IN MASTER LINK, 3/4 IN G2130 S HACKLES., AND HD THIMBLES	P1000036187				33
INSTALLATION TOOL ASSY, SPREADER TOOL FOR SUBSEA APPLICATION F/ PGB LOCK RING W/ QUICK DISCONNECT	P2000055442	222,25	514,35		26
PUMP HAND OPERATED, ASSY W/ QUICK DISCONNECT	P2000055441			285,75	13
SHIPPING CONTAINER ASSY, F/ DRILL AHEAD TOOL, W/ CONTIN-GENCY, STANDARD 1 0 FT X 8FT X 4FT HALF HEIGHT CONTAIN-ER, DNV 2.7-1	P2000028776	2427	3072		2846
TOOL STAND WELDMENT / MACHINING, F/ RUNNING TOOL, W/ API 6 5/8 REG BOX C ONNEC-TION	P1000112797		1524		899
SLING ASSY, 10.1 TON WLL/SWL, 4-LEG, 5/8 IN. OD X 10FT EYE BY EYE W/ THI MBLES, 3/4 IN. NOM-INAL SIZE ANCHOR SHACKLE EACH FREE END	P1000022835				35
UWD, ASSY, ROTARY TABLE ADAPTER BUSHING TOOL, MODIFIED FOR RUNNING TOTAL EGINA CONDUCTOR HOUSING	P2000060287	1331	1880		2051
WellHead System Installation Equipment					
UWD-15, WEAR BUSHING ASSY, 18 3/4 X 10 3/4 W/ 9.960 MIN BORE	DP-18-4774	470,66	922,02		538,4
UWD-15, WEAR BUSHING ASSY, 18 3/4 X 14 W/ 12.689 MIN BORE	P2000000631	471,17	962,82		616

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
UWD-15, BORE PROTECTOR ASSY, 18 3/4 W/ 17.580 MIN BORE, NOMINAL BORE	18-909-066	471,17	1220,47		134,5
INSTALLATION TOOL ASSY, W/ SLING AND SHACKLE	P2000054527	959,87	2677,16		1457
WellHead System Running Tool					
UWD-15, ASSY, F/ 30 CONDUCTOR HOUSING RUNNING TOOL, W/ 6-5/8 API REG BOX UP X 4-1/2 API IF PIN BTM, W/ EX-TENDED BUSH AND SEAL RING, 0QM0021, U-U , PSL-3.	P202044-0021	743,3	1574,8		1860
UWD-15, ASSY, 30/36 DRILL AHEAD TOOL, W/ CONTINGEN-CY RELEASE, 10 INCH BO RE INNER SLEEVE, 6-5/8 REG BOX UP X PIN DOWN, W/ TEST	P2000017963	743	2519,7		3343
UWD-15, ASSY, F/ 18 3/4 WELL-HEAD HOUSING RUNNING TOOL, 6 5/8 REG BOX UP X NC50 PIN DOWN	DP-18-3540	472,1	1651		1000
UWD-15, ASSY, F/ 18 3/4 SINGLE TRIP TOOL, W/ WASHOUT, NC50 BOX UP X PIN DOWN.	P206128	470	2095,5		890
UWD-15, ASSY, F/ 18 3/4 ANNU-LUS SEAL ASSY RUNNING TOOL, (ASART), NC 50 B OX UP X NC 50 PIN DOWN.	P205896	471,04	1 575,20		658
UWD-15, ASSY, 18 3/4 CEMENT CLEAN OUT TOOL, NC50 BOX UP X NC50 PIN DOWN	18-922-059	470,7	737		430
UWD, WASH OUT TOOL, W/ STANDARD LENGTH BULLNOSE, NC50 CONNECTION, NOZZLE S F/ MUD OR BRINE	DP-48-5075	165,1	2207,2		275
UWD-15, ASSY, F/ 18 3/4 SPRING LOADED TOOL, NC 50 BOX UP X PIN DOWN	18-920-138	469,9	1059,2		712
UWD-15, ASSY, F/ 18 3/4 AN-NULAR TOOL, F/ DEBRIS CLEANOUT, ANNULAR IMPRES SION & ANNULAR MILLING	P201134-0021	470,28	1641,48		328

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
ADAPTER SUB FOR EMERGENCY HANG-OFF OF DRILL PIPE. ACME BOX THREAD UP AN D API NC50 (4-1/2 IF) PIN DOWN.	18-322-183	254	6599,8		113,39
UWD-15, ASSY, F/ EMERGENCY DRILL PIPE HANGOFF TOOL, LANDING SUB W/ NC50 BOX TOP AND 7.438-1 STUB ACME LH PIN BOTTOM	18-922-108	221,74	567,44		82
UWD-15, STOP RING, F/ 18 3/4 WELLHEAD HOUSING RUNNING TOOL	18-910-219	597,3			69,1
UWD-15, FILL PORT ADAPTER ASSY, F/ 18 3/4 WELLHEAD HOUSING RUNNING TOOL	18-910-224	127	150,88		2,8
BALL VALVE ASSY, SUBSEA, 2 WAY, 2 NOM, 5K MAX WP, STAINLESS STEEL, QUART ER TURN, 2 NPT FEMALE THREADS BOTH ENDS	P1000018133				9,07
NIPPLE, 2 (M) NPT X 2 (M) NPT X 10.0 LG, 3000 PSI, SCHEDULE 160	P1000018804				1,8
NIPPLE, 2 (M) NPT X 2 (M) NPT X 3.0 LG, 3000 PSI, SCHEDULE 160	P1000018810				0,9
NIPPLE, 45 DEG ELBOW, 2 (F) NPT X 2 (F) NPT, 3000 PSI	P183877				2,3
CAP SCREW, HEX SOCKET DRIVE, .500-13UNC-2A/3A X 2.50 LG, A 574-H2S, PTFE	79-030-464				0,1
UWD2 3 INCH BALL VALVE F/30 INCH WELLHEAD HOUSING RUNNING TOOL	DP-18-2006				17,5
PUP 3 API LP PIN X PIN X 10.5 LONG	DP-18-2007				4,54
FITTING, PIPE, PLUG HEX HEAD 1 API LP, 3/4 TPF, CARBON STEEL	48-180-023				0,23
UWD-15, 18 3/4 EMERGENCY DRILL PIPE HANG OFF TOOL ASSY, NC50 PIN DOWN	18-922-105	469,9	876,3		576
Tubing Hanger System					

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
TUBING HANGER ASSY, EVXT-DB, 5 X 2-10K, OFFSHORE INSTALLATION SETUP F/ P RODUCTION TH P2000039913	P2000057031	471,4	6796,3		1161
TUBING HANGER ASSY, EVXT-DB, 5 X 2-10K, OFFSHORE INSTALLATION SETUP F/ I NJECTION TH P2000044303	P2000059692	471,4	6796,3		1161
ELECTRICAL FEEDTHROUGH CONNECTOR, HORIZONTAL & VERTICAL, DH CABLE CONNECTOR, DRYMATE, 1 PIN, TELE-DYNE DGO, 1371054-101, TO INTERFACE TH DRYMATE, 15KSI WP, W/ MTM SEAL SCREW	P1000033899				0,9
Tubing Hanger System Test/Handling/Installation Equipment					
TUBING HANGER HANDLING/TEST TOOL ASSY, 5 X 2-10K F/ 18 3/4 OD, 11 LINES (9 HYD, 1 ELEC AND 1 ELEC NOT INSTALLED)	P2000045581	374,65	2223,26		636
BOTTOM TEST CAP ASSY, F/ THRT, EVXT, 5 X 2-10K, 18 3/4 OD, 11 LINES (9 H YD, 1 ELEC, 1 ELEC PLUGGED), W/ SLING SET	P2000045585	457,2	849,63		595
TEST CAP ASSY, F/ THRT, TOP TEST CAP, EVXT, 5 X 2-10K, 18 3/4 OD, 17 LIN ES (15 HYD, 2 ELEC), SWL 25 METRIC TONNES, CE MARKED	P2000045586	508		929,1	500
BOTTOM TEST CAP ASSY, F/ TUBING HANGER, ORIENTATION JOINT, EVXT, 5 X 2-1 0K F/ 18 3/4 OD, W /17 LINES (15 HYD, 1 ELEC, 1 ELEC PLUGGED)	P2000045582	454,2		266,7	256
TEST CAP ASSY, F/ TOOL JOINTS, 6 5/8 FH PIN BTM X PAD-EYE TOP, SWL = 25 T ONNES, CE MARKED	P2000048377	203,2	557,28		100
ASSY/INSPECTION STAND ASSY, F/ RUNNING TOOL, MULTIPURPOSE MAINTENANCE STAND	P2000042058	1600	1600	1687,8	2770
TEST CAP BODY, F/ TUBING HANGER, PUP JOINT, 5 1/2 IN VAM 21 BOX, W/ 9/16 AUTO-CLAVE TEST PORT, 10K	P2000051743				18

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
TUBING HANGER ORIENTATION JOINT OVERSHOT TOOL ASSY, 5 X 2-10K F/ 18 3/4 OD, BOTTOM TEST CAP ASSY	P2000049698	660,4		266,14	216
TEST CAP ASSY, F/ TUBING HANGER, ORIENTATION JOINT, W/ 7.500-4SA-2G MODIFIED THD, 2X 9/16 M/P TEST PORTS, 25 TONNE SWL. CE MARKED	P2000051599	203,2	781,78		145
SHIPPING BASKET ASSY, F/ TUBING HANGER, C/W PUP JOINT, SPLICE CLAMP AND HANDLING PUP JOINT	P2000056529				
SHIPPING BASKET ASSY, F/ TUBING HANGER, HANDLING AND TEST TOOL	P2000042054	1594	3960	1154	2150
SHIPPING BASKET ASSY, F/ TUBING HANGER, RUNNING TOOL / TUBING HANGER ANNULUS ACCESS JOINT ASSY	P2000042056	1594	2960	1154	1770
SHIPPING BASKET ASSY, F/ TUBING HANGER, LEAD IMPRESSION TOOL	P2000042055	1594	4960	1154	2470
SHIPPING BASKET ASSY, F/ TUBING HANGER MECHANICAL RETRIEVAL TOOL	P2000055351	1594	2960	1154	1770
SHIPPING BASKET ASSY, F/ TUBING HANGER, ORIENTATION JOINT OVERSHOT TOOL	P2000055352	1594	4960	1154	2470
TUBING HANGER RUNNING/RETRIEVAL TOOL ASSY, 5 X 2-10K F/ 18 3/4 OD, 17 LINES (15 HYD, 1 ELEC, 1 ELEC PLUGGED)	P2000045989	469,9	1511,3		1251
TUBING HANGER MECHANICAL RETRIEVAL TOOL ASSY, 5 X 2-10K F/ 18 3/4 OD, W/ 6 5/8 API FH BOX TOP	P2000045592	472,4	2406		1277
TUBING HANGER ANNULUS ACCESS JOINT ASSY, 5 X 2-10K F/ 18 3/4 OD, 15 HYD LINES	P2000045593	469,9	1555,51		1326
TUBING HANGER ORIENTATION JOINT, ASSY, 5 X 2-10K F/ 18 3/4 OD, W/ 17 LINES (15 HYD, 1 ELEC, 1 ELEC PLUGGED)	P2000045594	470,66	2288,73		1875
Trees, Primary Equipment					

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
EVXT-DB ASSY, 5 1/8 X 2 1/16-10K, 18 3/4 TORUS IV 10K HD BTM X 13 5/8 TO RUS III HUB TOP, PRODUCTION (INSULATED), FULL XT	P2000039837	4972,5	4316,02	3999,19	48974
EVXT-DB ASSY, 5 1/8 X 2 1/16-10K, 18 3/4 TORUS IV 10K HD BTM X 13 5/8 TO RUS III HUB TOP, INJECTION FULL XT	P2000043621	4317,98	4972,84	3999,19	41142
ROV TREE CAP, EVXT, ASSY, 5 1/8 X 2 1/16-10K	P2000025411	425,12	1150,62	596,9	114
METAL SEAL, H4 / VX F/ 18 3/4-15K HUB OR H4, 316 SS, SILVER PLATED	73-694-083	570,4	101,6		37
S-SEAL, B TYPE EXTERNAL, 2.874/2.856 OD X 0.234 CS X .391 LG, E50159 85A DURO HIGH TEMP HNBR (NORSOK COMPLIANT) MATL, W/ 316 SS SPRINGS, .06 DIA COIL	P215139	72,771			0,1
METAL SEAL, SBMS-II BODY, F/ 5 1/8-15K HANGER, INCONEL 718, SILVER PLATE D, 6.351 OD X 5.526 ID, 1.068 LG	P216682				0,91
BUSHING, 6.062 ID X 6.362 OD X 0.217 LG, NON-METALLIC, 95 DUROMETER HNBR MTL	P160978				0,1
S-SEAL, B TYPE EXTERNAL, 6.343/6.307 OD X 0.252 CS X .391 LG, E50159 85A DURO HIGH TEMP HNBR (NORSOK COMPLIANT) MATL, W/ COMPOSITE SPRINGS, .09 DIA COIL	P153746				0,013
Trees Test/Handling/Installation Equipment					
TEST/HANDLING CAP ASSY, F/ XMAS TREE, TORUS III PROFILE, 57 TONNES SWL, CE MARKING, W/ PRESSURE TEST	P2000039682	800,1	1039,57	1039,57	1349
TEST STUMP ASSY, F/ XMAS TREE, H4 PROFILE, 5 X 2-10K, DUMMY TUBING HANGER (TEST STUMP PRESSURE TESTED / DTH PRESSURE TESTED), OFFSHORE, CERTIFIED TO DNV 2.7-3 CLASS R45	P2000045533	3573,66	2586,31	1775,68	7793

Component Dimensions and Weight

Description	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
INSPECTION STAND ASSY, F/ XMAS TREE, GUIDE FUNNEL INTERFACE, 60 TONNE SW L, W/ SLING ASSY, CERTIFIED TO DNV 2.7-3 CLASS R45.	P2000042885	1803	1803	1051	1277
INSPECTION STAND ASSY, F/ LRP AND EDP, 4 X GUIDE POST INTERFACE, 85 TONN ES SWL, CERTIFIED TO DNV 2.7-3 CLASS R45.	P2000049058	3246,6	3246,6	3073,4	3864
HANDLING/TRANSPORTATION SKID ASSY, F/ XMAS TREE, RIG CARRIER INTERFACE S KID, 120 TONNES SWL, CERTIFIED TO DNV 2.7-3 CLASS R45	P2000058607	3042,5	3042,5	532,6	3588
HANDLING TOOL ASSY, F/XMAS TREE, TORUS III PROFILE, 57 TONNES SWL, CE MARKING	P2000039684	800,1	1039,57	1039,57	1349
SKID, TRANSPORT F/ RUNNING TOOL, AND CHOKE INSERT, F/ IRSC CHOKE, W/ ONE TRANSPORT BODY, DESIGNED TO DNV 2.7-3, 2011, IMPERIAL UNITS	P1000045612	1595,12	3200	2605,53	3046
SKID, TRANSPORT F/ RUNNING TOOL, AND CHOKE INSERT, F/ IRSC CHOKE, W/ ONE TRANSPORT STAND, F/ INSULATED APPLICATIONS, DESIGNED TO DNV 2.7-3, 2011 , IMPERIAL UNITS	P1000142543	1595,12	3200	2605,53	3134
SUBSEA EVXT-DB GENERAL ARRANGEMENT, XT BUMPER BAR ASSEMBLY	P2000042040	1705	1461,1	1326,07	287
TRANSPORTATION SKID ASSY, F/ XMAS TREE, EVXT	P2000045535	4138,1	2927	2927	4243
PROTECTION, SHROUD, TARP, WITH TOP HAT F/FULL BUILD PXT & IXT	P2000057629	4318	4013,2	3581,4	60
SUBSEA ECXT LAYOUT, XT MAINTENANCE TOOL KIT	P214987				14,5
ACTUATOR LINEAR OVERRIDE TOOL ASSY F/ M3000, SLOT-10	P169351	292	616,7	412,75	45

Component Dimensions and Weight

Description	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
ROV TOOL, OVERRIDE, M3000 LINEAR ACTUATOR, STANDARD DUTY	100040011				48
FMC SUBSEA CHOKE RUNNING & RETRIEVAL TOOL, F/ CHOKE INSERT ASSY, ASSY, F / HORIZONTAL CLAMP CONNECTOR INSERTS, F/ INSULATED APPLICATIONS, W/ 4L/6 L HOT STAB MANIFOLD	P1000119706	884	884	1653,3	552
TREE RUNNING TOOL ASSY, 5 X 2-10K F/ 13 5/8 OD, F/ WIRE LINE / DRILL PIPE DEPLOYMENT, 85 TONNES SWL	P2000054775	1150,6		3174,5	5670
TREE RUNNING TOOL ASSY, 5 X 2-15K F/ 13 5/8 OD, W/ INJECTIVITY FUNCTIONALITY F/ WIRE LINE / DRILL PIPE	P2000055217				
ROV TOOL, STAB 6L, 345 BAR, (INCL. HOSES & BOX)	P6000019293	130	471		8,8
ROV TOOL, STAB 4L, 10K, MALE, ASSY	P6000030437	140	390		4,5
INSULATION, MOULDING, F/ BRACKET, NOVOLASTIC MATL, SUPPLIED BY DUN, PGB INSULATION RING BASE PLATE, TYPE B	P2000052543				14
INSULATION, MOULDING, F/ BRACKET, NOVOLASTIC MATL, SUPPLIED BY DUN, PGB INSULATION, ASSY, W/ SEAL PROTECTORS	P2000052544	1762,9			216
MECHANICAL RELEASE TOOL, ASSY, F/ EVXT-DB, 18 3/4 TORUS IV 10K HD BTM X 13 5/8 TORUS III HUB TOP, 80 TONNES SWL (SAFE WORKING LOAD), CE MARKING	P2000045539	1067		2763	1676
Riser Topside Equipment					

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
SURFACE FLOW TREE ASSY, 5-1/8 X 4-1/16 X 4-1/16-10K, 7 1/16 - 15K SPEEDLOC II BTM X 11.500-4NA-10K OTIS QUICK CONNECTION TOP, 2 INCH WECO KILL WING OUTLET AND 4 1/16-10K CIW NO.6 PROD OUTLET, PROD, KILL WING VALVE AND MASTER VALVE, SHIPPING	P6000102230	1886	2800	3119	13279
CIRCULATION HEAD, ASSY, 5 1/8 X 2 1/16-10K MONOBORE RISER, W/ SPEEDLOC II BTM X 11.500-4NA-10K OTIS QUICK CONNECTION TOP, KILL AND MASTER VALVE, WECO UNION CONNECTION, SHIPPING LEVEL	P6000102231	1886	2800	2787	10173
TENSION FRAME, ASSY	P6000100419	2694		14405	12700,59
TENSION FRAME, ELECTRICAL, POWER SUPPLY, TEX 120-124, 24V, 5A, ASSY, F/ WINCH SYSTEM	P6000135839		2000		0,5
TENSION FRAME, ELECTRICAL, CABLE WITH CONNECTORS BETWEEN CONTROL PANEL AND ELECTRICAL RIG SUPPLY, ASSY, F/ WINCH SYSTEM, LENGTH 25 M	P6000135760		25000		9
TENSION FRAME, ELECTRICAL, CABLE INTERFACING TRACO POWER CONVERTER, ASSY, F/ WINCH SYSTEM, LENGTH 1M	P6000137148		1000		0
HANG OFF BUSHING, ROUND, ASSY, ID = 212 MM, OD = 1009 MM, F/ UNION NUT, F/ EGINA PROJECT, PACIFIC SCIROCCO RIG	P6000100429	1009		1628	1039
HANG OFF BUSHING, ROUND, ASSY, ID = 212 MM, OD = 1009 MM, F/ UNION NUT, F/ EGINA PROJECT, WEST JUPITER RIG	P6000100430	1009		1628	1038

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
HANG OFF BUSHING, ROUND, ASSY, ID = 310 MM, OD = 1009 MM, F/ SPEEDLOC, F/ EGINA PROJECT, PACIFIC SCIROCCO RIG	P6000100431	1009		1628	933
HANG OFF BUSHING, ROUND, ASSY, ID = 310 MM, OD = 1009 MM, F/ SPEEDLOC, F/ EGINA PROJECT, WEST JUPITER RIG	P6000100432	1009		1628	933
SWIVEL TOPSIDE, WOR, ASSY, 5 1/8-10K	P6000104770	809	1117		2632
Riser Products					
DRILL PIPE RISER, STANDARD JOINT ASSY, W/ DPR-HP CONNECTOR, 31.5FT, 6 5/8 IN OD, 10K, SUPPLIED BY VAM	P6000100230	203,2	9601,2		698
DRILL PIPE RISER, PUP JOINT ASSY, W/ DPR-HP CONNECTOR, 25 FT, 6 5/8 IN O D, SUPPLIED BY VAM	P6000100236	203,2	7620		618
DRILL PIPE RISER, PUP JOINT ASSY, W/ DPR-HP CONNECTOR, 20 FT, 6 5/8 IN O D, 10K, SUPPLIED BY VAM	P6000100235	203,2	6096		582
DRILL PIPE RISER, PUP JOINT ASSY, W/ DPR-HP CONNECTOR, 15 FT, 6 5/8 IN O D, 10K, SUPPLIED BY VAM	P6000100234	203,2	4572		451
DRILL PIPE RISER, PUP JOINT ASSY, W/ DPR-HP CONNECTOR, 10 FT, 6 5/8 IN O D, 10K, SUPPLIED BY VAM	P6000100233	203,2	3048		292
DRILL PIPE RISER, PUP JOINT ASSY, W/ DPR-HP CONNECTOR, 5 FT, 6 5/8 IN OD, 10K, SUPPLIED BY VAM	P6000100231	203,2	1524		189
SAVER SUB, DRILLPIPE 6 5/8 IN OD, 10K, ASSY, BOX TOP X PIN BTM X 1000 MM LG, DPR-HP CONNECTOR, SUPPLIED BY VAM	P6000100237	203,2	1000		160

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
SAVER SUB, DRILLPIPE 6 5/8 IN OD, 10K, ASSY, PIN TOP X PIN BTM X 1000 MM LG, DPR-HP CONNECTOR, SUPPLIED BY VAM	P6000100238	203,2	1000		177
RISER SLICK JOINT, ASSY, MONO BORE, 5-10K, XT MODE	P6000103906		16332		6019
RISER SLICK JOINT, ASSY, MONO BORE, 10K, TH MODE, 5 1/8 DRIFT	P6000103907	685	16496		5455
UNION NUT RISER, EXTENSION JOINT, 7 IN OD, 10K, TH-MODE, ASSY	P6000103908	351	6441		1171
RISER STRESS JOINT, LOWER ASSY, MONO BORE XT MODE, 10K, 5 1/8	P6000100527	633,53	13675,5		1874
RISER STRESS JOINT, UPPER ASSY, MONO BORE, 10K, XT MODE, 5 1/8	P6000100528	566	6405		1886
CROSSOVER ASSY, SPEEDLOC II SL210 CONNECTOR TOP X 6 5/8 VAM DPR HP BOX B TM X LG, 10K	P6000100677	655	1522		1056
CROSSOVER ASSY, 7 IN UN BOX TOP X 6 5/8 VAM DP BOX BTM X 2000 MM LG, 5 I N MONOBORE, 10K	P6000100676	326,5	2027		436
HIGH SET LUBRICATOR VALVE, ASSY, 5 1/8-10K, VAM 6 5/8 IN OD BOX TOP X 7 IN UNION NUT PIN END BTM C/W UMBILICAL TERMINATION AND OFFSET CLAMPS	P2000044739	480,45	7966,93		2003
WORKOVER UMBILICAL CLAMP, 6 5/8, WEB STRAP CLAMP, F/ 95 MM UMB	P6000104749	343		209	2,52
WORKOVER UMBILICAL CLAMP, 6 5/8, WEB STRAP CLAMP, F/ 43 MM UMB	P6000104748	312		209	2,6
WORKOVER UMBILICAL CLAMP, 6 5/8, WEB STRAP CLAMP, F/ 62 MM UMB	P6000104746	320		210	2,49
Riser Handling Equipment					
SHIPPING BASKET ASSY, F/ RISER JOINT, STANDARD DRILL PIPE	P6000103249	1840	11279	1491	4730

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
SHIPPING BASKET ASSY, F/ RISER PUP JOINTS, DRILL PIPE, 15, 10 AND 5 FT	P6000103251	4440	10276	1491	4400
SHIPPING BASKET ASSY, F/ RISER PUP JOINTS, DRILL PIPE, 25 AND 20 FT	P6000103250	1840	15276	1491	6160
SHIPPING BASKET ASSY, F/ STRESS JOINT, LOWER	P6000103253	1840	15276	1491	6160
SHIPPING BASKET ASSY, F/ STRESS JOINT, UPPER AND CROSSOVER	P6000103248	1840	10276	1491	4610
SHIPPING BASKET ASSY, F/ SLICK JOINT, XT-MODE	P6000103246	1840	17994	1491	7100
SHIPPING BASKET ASSY, F/ SLICK JOINT, TH-MODE AND GOOSENECK	P6000103245	1840	17994	1491	7100
SHIPPING BASKET ASSY, F/ SLICK JOINT, EXTENSION TH-MODE AND CROSSOVERS	P6000103247	1840	10276	1491	4400
SHIPPING BASKET ASSY, F/ GOOSENECK, XT MODE	P6000103244	2438	4267	2749	4058
HANDLING TOOL ASSY, F/ RISER JOINT, SL210 CLAMP CONNECTOR, WITH 6 5/8 IN ELEVATOR SHOULDER	P6000103713	468	1545		480
SHIPPING BASKET ASSY, F/ HIGH SET LUBRICATOR VALVE, AND CROSSOVER	P6000103252	1840	10276	1491	4400
LIFTING EQUIPMENT ASSY, F/ HIGH SET LUBRICATOR VALVE, 5 1/8-10K, W/ CLAM PS	P2000050517		7966,93	3691,17	2072
SHIPPING BASKET ASSY, F/ CLAMP, WEB STRAP TH AND XT MODES	P6000103256	1840	10280	1491	4410
Riser Subsea Equipment					
EDP, ASSY, 5 1/8 X 2 1/16-10K	P6000100627	3376	4193	12530	27400
LRP, ASSY, 5 1/8 X 2 1/16-10K	P6000100628	3376	3978	3935	27400

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
SIMPLIFIED LANDING STRING F/ VXT, ASSY, 10K, (PACIFIC SCIROCCO)	P6000100629	470,7	14316		4860,1
SIMPLIFIED LANDING STRING F/ VXT, ASSY, 10K (WEST JUPITER)	P6000109156	470,7	15986		5175
ELECTRICAL JUMPER, 1 X 1 LEGS, F/ DISTRIBUTION, UMB EC A - SLS ASJ EC A, IWOCS, EGINA	P6000104312		8500		
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 2 (TH LOCK / HWL)	P6000118964	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 3 (TH LOCK VERIFICATION / HWLV)	P6000118963	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 4 (THRT LATCH VERIFICATION / THLV)	P6000118962	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 5 (THRT UNLATCH / THUL)	P6000118961	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 6 (LV OPEN)	P6000118960	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 7 (THRT LATCH / THL)	P6000118959	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 8 (TH SOFT LAND)	P6000118958	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 9 (SCSSV BALANCE)	P6000118957	34	8700		4,8

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 10 (AIV OPEN / SSO)	P6000118956	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 11 (TH SEAL TEST)	P6000118955	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 12 (AIV CLOSE / SSC)	P6000118954	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 13 (SCSSV)	P6000118953	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 14 (LV CLOSE)	P6000118952	34	8700		4,8
HOSE ASSY, 1-LINE, 690 BAR, 1/2 IN ID, THERMOPLASTIC, HCR, 8.7 M LONG, B ULKHEAD CLAMP - ASJ, LINE 15 (CHEMI-CAL SPARE)	P6000118951	34	8700		11
HOSE ASSY, 1-LINE, 690 BAR, 3/8 IN ID, THERMOPLASTIC, 8.7 M LONG, BULKHE AD CLAMP - ASJ, LINE 1 (TH UNCLOCK / HWUL)	P6000104561	34	8700		4,8
WORKOVER BULKHEAD CLAMP, ASSY, F/ 168.3 MM RISER JOINT	P6000120321	454		300	52
WORKOVER TERMINATION CLAMP, ASSY, F/ 168.3 MM RISER JOINT	P6000120323	460		300	56
WORKOVER CENTRALIZER, ASSY, F/ 175 MM OD RISER JOINT	P6000077459	175		250	39,5
Riser Subsea Test/Handling Equipment					
TEST/TRANSPORTATION SKID ASSY, F/ EMERGENCY DISCONNECT PACKAGE, CLAMP HU B PROFILE	P6000109254	2805	2805	3180	2390
TEST/HANDLING CAP ASSY, F/ EMERGENCY DISCONNECT PACKAGE	P6000109256	565,15		922,5	726

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
PROTECTION, COVER, TARP, EDP	P6000109258	4240	3380	3555	
SLING ASSY, 1 LEG, WLL/SWL 140 000 KG	P6000115635			7328	
SLING ASSY, 2 LEG, MAX WORK-ING ANGLE 15 DEG, WLL/SWL 500 KG	P6000125786				
TEST/TRANSPORTATION SKID ASSY, F/ LOWER RISER PACK-AGE, TORUS III PROFILE	P6000109263	2859	2859	2900	3115
CAP, TEST, INBOARD, KC6-17, ID 5 + 2 + 28HL, 10K KX, ASSY, EGINA	P6000113893	910	580	20828	1046
PROTECTION, COVER, TARP, LRP	P6000109260	4040	3420	4875	
LIFTING CAP ASSY, F/ LOWER RISER PACKAGE, KC6-17, SWL 50 T	P6000109261	910		4500	1082
TEST ASSY, F/ LANDING STRING, SHEAR JOINT W/ TUBINGS FOR HYDRAULIC AND E LECTRICAL LINES AND CLAMPS, F/ EGINA PROJECT (PACIFIC SCIROCCO & WEST JU PITER RIGS)	P6000109813	3378,2	4241	4241	343
TEST/LIFTING CAP MALE, F/ LANDING STRING, F/ EXTER-NAL PRESSURE, 10 INCH STUB ACME, SWL 8T, ASSY	P6000116652	8890	1504	1504	275
SHIPPING BASKET ASSY, F/ LANDING STRING, SIMPLIFIED, PACIFIC SCIROCCO	P6000103254	1840	17994	1491	7100
SIMPLIFIED LANDING STRING F/ VXT, ASSY, LIFTING ARRANGE-MENT, EGINA, PACI FIC SCIROC-CO	P6000103227		14316	5598	198
SIMPLIFIED LANDING STRING F/ VXT, ASSY, LIFTING ARRANGE-MENT, EGINA, WEST JUPITER	P6000109183		15986	7805	207
SHIPPING BASKET ASSY, F/ LANDING STRING, SIMPLIFIED, WEST JUPITER	P6000103255	1840	17994	1491	7100
Work Over Control System					

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
SCM MK III, 620, WOCM	P6000102687	855		1801	1968
IWOCS, ELECTRIC HYDRAULIC, HPU/MCS CONTAINER # 1	P6000102742	10000	2438	9586	22000
IWOCS, REMOTE CONTROL PANEL, W / 300M JUMPER AND PEDESTAL	P6000103961		300000		50
IWOCS, EMERGENCY SHUT-DOWN, ESD/EQD PANEL WITH 300M CABLE	P6000102744		300000		75
IWOCS, SHUTDOWN, PSD PAN-EL WITH 300M CABLE	P6000102745		300000		75
IWOCS JUMPER, FIBER OPTIC, HPU/MCS TO COMPANY OFFICE REMOTE DISPLAY, 300M	P6000103974		300000		60
WORKOVER UMBILICAL AND REEL	P6000102931	4910	4187	10125	30000
SHEAVE, WORKOVER UMBILI-CAL SYSTEM, SWL 5T	P6000102937				650
WORKOVER UMBILICAL REEL	P6000102932				20000
SHEAVE, WORKOVER UMBILI-CAL SYSTEM, SWL -, XT UMB. TENSION GUIDE (UPSIDE DOWN)	P6000132458				400
CIRCULATION UMBILICAL AND REEL, EGINA	P6000102903	3800	3850	10925	28000
SHEAVE, CIRCULATION UMBILI-CAL SYSTEM, SWL TBD	P6000102908	2690	216	1705	580
HSLV UMBILICAL AND REEL	P6000102990	2300	2000	5775	4500
Work Over Control System Handling Equipment					
SENSOR SIMULATOR, SESI CAB-INET, WP30 WOCS	P6000111816	575	720	530	36
SPCTU 200E, 620VAC WITH MRM AND FIBER	P6000115198	575	930	800	132
TEST & FLUSHING HPU - TFHPU, FREQUENCY CONTROLLED, ATEX CERTIFIED, ZONE 1, TO-TAL EGINA	P6000104059	1800	1800	1995	2250

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
Template/Manifold and Satellite System					
FOUNDATION, CLOSED CAISSON, CCF 14, ASSY	P6000102259	12005	15069	30178	101400
FOUNDATION, MANIFOLD SUPPORT STRUCTURE, MSS 17, ASSY	P6000102260	9840	15058	4518	82140
GUIDEPOST, W/ CENTER ROD, FOR UCON, LENGTH, 6350 MM, ASSY	P6000123998	1000	6350	1000	1050
GUIDEPOST, W/ CENTER ROD, FOR UCON, LENGTH, 3650 MM, ASSY	P6000124000	1000	3650	1000	578
MANIFOLD, MODULE, ASSY, MDC01	P6000103511	10346	14716		263000
MANIFOLD, MODULE, ASSY, MDC02	P6000103510	10346	14716		263000
MANIFOLD, MODULE, ASSY, MDC03	P6000103509	10346	14716		263000
MANIFOLD, MODULE, ASSY, MDC04	P6000103508	10346	14716		263000
MANIFOLD, MODULE, ASSY, MDC05	P6000103507	10346	14716		263000
MANIFOLD, MODULE, ASSY, MDC06	P6000103506	10346	14716		263000
MANIFOLD, MPM, ASSY	P6000105085	1240	1620	3755	5000
MANIFOLD, MPM, DUMMY, ASSY	P6000105084	1240	1620	3755	5000
PLM, MODULE, ASSY	P6000099551	7506	7046	2034	32909
SDU, MODULE, ASSY, TYPE A	P6000099492	5000	8300	6421	41659
SDU, MODULE, ASSY, TYPE B	P6000123253	5000	8300	6421	41659
UTA, FOUNDATION, ASSY	P6000102262	4053	8300	3390	9243
PGB, 17 I, INJECTION, ASSY	P6000103993	3266	6352	4121	12170
PGB, 17 P, PRODUCTION, ASSY	P6000103994	3266	6352	4121	12238
Connections Equipment					
HUB SMALL BORE, KC4-3, ID 2, 10K KX SEAL, 10 KSI WP, NON INSULATED, ASSY	P6000103803	170		138,1	12
CAP, INBOARD, HP METAL, KL4-12, ID 6 + 2 + 10HL, ASSY, ACCESS PLATE	P6000105604		780	1047	372
CAP UCON-H-12, INBOARD, PROTECTION, KC4-12, ASSY	P6000108904		690	944	71

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
CAP UCON-H-12, OUTBOARD, HP METAL, REINSTALLABLE, KC4-12, ID 6, 10K KX SEAL, 7.5K DP, ASSY	P6000102349	426	1565	982,8	169
CAP UCON-H-12, OUTBOARD, HP METAL, REINSTALLABLE, KC4-12, ID 6 + 2 + 9HL , 10K KX SEAL, 7.5K DP, ASSY	P6000102346	976	1565	1255	198
CAP UCON-H-12, INBOARD, HP METAL, KL4-12, ID 6, 10K KX SEAL, 10K DP, ASSY	P6000133231				
CAP UCON-H-12, INBOARD, HP METAL, KL4-12, ID 6 + 2 + 9HL, 10K KX SEAL, 10K DP, ASSY	P6000133232				
HUB, UCON-H-12, DUMMY HUB W/ 1.5M GUIDE POST, ASSY	P6000135320	935	1048	3025	433
HUB, UCON-H-18, DUMMY HUB W/ 1.5M GUIDE POST, ASSY	P6000135319	1174	1400	3382	622
Running Tools Equipment					
RUNNING TOOL, SUBSEA CONTROL MODULE, ASSY, FOR SCM MK III	100015275	1278		2300	1229
MRT SOFTLANDING EXTENSION KIT	100030589		441		10
RUNNING TOOL, HIGH PRESSURE CAP, UCON-H-12, ASSY	P6000115555	1807	1841,5	3800,7	1735
RUNNING TOOL, HIGH PRESSURE CAP, UCON-H-18, ASSY	P6000086739	2087	2090	4255	2280
SKID, TRANSPORT F/ RUNNING TOOL, HIGH PRESSURE CAP, UCON-H-18, ASSY	P6000105494	2315	2250	4681	1400
SKID, TRANSPORT F/ RUNNING TOOL, HIGH PRESSURE CAP, UCON-H-12, ASSY	P6000119691	2010	2100	3158	1100
RUNNING TOOL, HIGH PRESSURE CAP, GUIDE, ASSY, UCON-H-12, GUIDE ARM	P6000117296	937	1176	265	83
LATCH UNIT TOOL, MULTI FUNCTIONAL, ASSY, MK4	100014893	348		1220	73
ROV Tools Equipment					

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
RUNNING TOOL, SUBSEA CONTROL MODULE, ASSY, FOR SCM MK III	100015275	1278		2300	1229
MRT SOFTLANDING EXTENSION KIT	100030589		441		10
RUNNING TOOL, HIGH PRESSURE CAP, UCON-H-12, ASSY	P6000115555	1807	1841,5	3800,7	1735
RUNNING TOOL, HIGH PRESSURE CAP, UCON-H-18, ASSY	P6000086739	2087	2090	4255	2280
SKID, TRANSPORT F/ RUNNING TOOL, HIGH PRESSURE CAP, UCON-H-18, ASSY	P6000105494	2315	2250	4681	1400
SKID, TRANSPORT F/ RUNNING TOOL, HIGH PRESSURE CAP, UCON-H-12, ASSY	P6000119691	2010	2100	3158	1100
RUNNING TOOL, HIGH PRESSURE CAP, GUIDE, ASSY, UCON-H-12, GUIDE ARM	P6000117296	937	1176	265	83
LATCH UNIT TOOL, MULTI FUNCTIONAL, ASSY, MK4	100014893	348		1220	73
ROV Tools Equipment					
ROV TOOL, REINSTALLABLE, GRABBER POST, 2M, ASSY	P6000073163				
GUIDE POST, INTERVENTION, UCON-H, 2.5M, ASSY	P6000073312	250	2500		316
GUIDE POST, INTERVENTION, UCON-H, ROV LIGHTWEIGHT, 1.5M, ASSY	P6000065075	250	1500		79
ROV TOOL, TOOL INTERFACE FRAME, UCON-H-18, INSULATED, TIF, ASSY	P6000086069	1860	1506	2100	560
ROV TOOL, TOOL INTERFACE FRAME, UCON-H-12, TIF, ASSY	P6000062939	1363	781	1606	209
ROV TOOL, HUB CLEANING, UCON-H-18, INSULATED, INBOARD/OUTBOARD, HCT, MONOBORE, ASSY, FOR KC4-16	P6000086070				
ROV TOOL, HUB CLEANING, FLOW MODULE, MULTIBORE, KC4-12, 6+2+10HL, UCON-H -12	P6000105121				
ROV TOOL, HUB CLEANING, UCON-H-12, INBOARD/OUTBOARD, HCT, MONOBORE, ASSY	P6000065127				

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
ROV TOOL, SEAL-REPLACEMENT, UCON-H-12, INBOARD, SRT, MULTIBORE, ASSY	P6000062938				
ROV TOOL, SEAL-REPLACEMENT, UCON-H-18, INSULATED, INBOARD, SRT, MONOBORE , ASSY, FOR KC4-16	P6000086071				
ROV TOOL, SEAL-REPLACEMENT, UCON-H-12, INBOARD, SRT, MONOBORE, ASSY	P6000062936				
ROV TOOL, STAB 4L, UCON-H, HYDRAULIC JUMPER W/ INTENSIFIER, HC2W-1.5 / H C4W-1.3, 3M, ASSY	P6000064510	78	3000	123	47
ROV TOOL, STAB 4L, UCON-H, HYDRAULIC JUMPER, 1.5M, ASSY	P6000064512	122,7	1500	122,7	24
ROV TOOL, ACTUATION TOOL, INSULATED, UCON-H-18, CAT, ASSY	P6000085695	1832,2	1228,4	1321,2	526
ROV TOOL, ACTUATION TOOL, INSULATED, UCON-H-12, CAT, ASSY	P6000061649	1530	898	818	237
ROV TOOL, ACTUATION TOOL, UCON-H-12, CAT, ASSY	P6000065193	1264	898	818	196
ROV TOOL, STROKING TOOL, UCON-H-18, SST, ASSY	P6000085759	465	1516,5	762	167
ROV TOOL, STROKING TOOL, UCON-H-12, SST, ASSY	P6000061566	207,5	1188	714	72
BASKET, ROV TOOL F/ MULTI PURPOSE, UCON-H-12/18, ASSY	P6000104834	3200	4700	3258	5457
ROV TOOL, HUB CLEANING, FLOW MODULE, MULTIBORE, KC4-12, 1.5X9 + 8HL, UCO N-H-12	P6000105574				
ROV TOOL, STAB 6L, 345 BAR, (INCL. HOSES & BOX)	P6000019293	130	471		8,8
ROV TOOL, STAB 6L, UCON-H, HYDRAULIC JUMPER, 3M, ASSY	P6000064511	121,1	3150	121,1	24

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
ROV TOOL, HUB CLEAN-ING & SEAL REPLACEMENT, UCON-H-18, INSULATED, HCT & S RT, 12.5 INCH, LATCH & BRUSH KIT	P6000117202				
GUIDE POST, INTERVENTION, UCON-H, 6.5M, ASSY	P6000119773	250	6500		736
GUIDE POST, INTERVENTION, UCON-H, 5.5M, ASSY	P6000119772	250	5500		632
ROV Tools Test Equipment					
ROV TOOL, ACTUATION TOOL, UCON-H-12, CAT, WORKSHOP, ASSY	P6000064505	686,6	1087	581,6	239
ROV TOOL, STROKING TOOL, UCON-H-12, SST, WORKSHOP, ASSY	P6000072217	193,5	1188	405	110,3
ROV TOOL, ACTUATION TOOL, INSULATED, UCON-H-18, CAT, WORKSHOP, ASSY	P6000092649	1228,3	1817	921	709
ROV TOOL, STROKING TOOL, UCON-H-18, SST, WORKSHOP, 870 STROKE LENGTH, AS SY	P6000102631	181	870	462	163
ROV TOOL, TUBING HANGER ORIENTATION CHECK, CALIBRA-TION JIG, MK2	P6000021047				
ROV TOOL, TEST TOOL, UCON-H-12, TIF/HCT/SRT	P6000083004				
ROV TOOL, TEST TOOL, AND TRANSPORTATION SKID, UCON-H-18, INSULATED, TIF/ HCT/SRT/CRT	P6000102851				
ROV TOOL, TOOL INTERFACE FRAME, UCON-H-18, INSULAT-ED, TIF SHIPPING SKID, ASSY	P6000121893				
ROV TOOL, TORQUE, CL4 AN-GULAR GEARBOX 90 DEG, W/ INTEGRATED TORQUE ADAPT ER, FOR HP KL4-10, TOPSIDE USE, MK1	P6000122027				
Umbilical Connection Equipment					
CAP UCON-H-12, OUTBOARD, HP ELASTOMER, KC4-12, ID 1 1/2 (9X) + 8HL, ASSY	P6000102348	277,5		662	101

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
TERMINATION HEAD, UCON-H-12, KC4.2-12, ID 1 1/2 (9X) + 7HL, 10K KX SEAL, 517 BAR WP, NON INSULATED, UMB, STRAIGHT, ASSY W/ GUIDE FRAME	P6000101000	1350	5816	1180	5365
TERMINATION HEAD, UCON-H-12, KC4.2-12, ID 1 1/2 (9X) + 7HL, 10K KX SEAL, 517 BAR WP, NON INSULATED, UMB, REVERSED, ASSY W/ GUIDE FRAME	P6000105484	1350	5816	1180	5368
CAP UCON-H-12, INBOARD, PROTECTION, KC4-12, ASSY	P6000108904		690	944	71
SEAL PLATE, KC4-12, ID 1 1/2X9 + 8HL, 10K KX, UCON-H, ASSY	P6000102232				14
Flow Line Products					
TERMINATION HEAD, UCON-H-18, KC4.2-16, ID 12, 10K KX SEAL, 517 BAR WP, IN SU-LATED, ASSY W/ GUIDE FRAME, FOR PROD MANIFOLD	P6000101029	1815	4904	1727	10296
CAP UCON-H-18, OUTBOARD, LP ELASTOMER, KC4-16, ID 12, ASSY, FOR INSULATE D TERMI-NATION HEAD	P6000102357	568	359		92
TERMINATION HEAD, UCON-H-18, KC4.2-16, ID 12, 10K KX SEAL, 517 BAR WP, IN SU-LATED, ASSY W/ GUIDE FRAME, FOR PRODUCTION RISER BASE	P6000107083	1815	5380	1727	10130
HUB UCON-H-18, KC4-16, ID 12, 10K KX SEAL, 517 BAR WP, INSU-LATED, NON-PAR KING, ASSY, FOR PROD PLET	P6000103806	1660	2160	1666	4535
HUB UCON-H-18, KC4-16, ID 12, 10K KX SEAL, 374 BAR WP, INSU-LATED, NON-PAR KING, ASSY, FOR PRODUCTION RISER BASE FLET	P6000127013	1424	1660	1706	4539
CAP UCON-H-18, INBOARD, HP METAL, REINSTALLABLE, KL4-16, ID 12, 10K KX S EAL, 7.5K DP, ASSY, F/ TOTAL W/FLOODING STAB - IN	P6000101946	997	1060	1335,4	1134

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
CAP UCON-H-18, INBOARD, HP METAL, REINSTALLABLE, KL4-16, ID 12, 10K KX S EAL, 7.5K DP, ASSY, F/ TOTAL W/2 CHECK OUT	P6000101947	845,9	1060	1335,4	1123
HUB UCON-H-18, KC4-16, ID 12, 10K KX SEAL,517 BAR WP, INSULATED, NON-PAR KING, ASSY, FOR PRODUCTION RISER BASE	P6000107712	1660	2160	1666	4563
TERMINATION HEAD, UCON-H-18, KC4.2-16, ID 12 1/2, 10K KX SEAL, INSULATED FRAME W/O INSULATION, ASSY W/ GUIDE FRAME	P6000101035	1828	4904	1727	8820
CAP UCON-H-18, OUTBOARD, LP ELASTOMER, KC4-16, ID 12 1/2, ASSY	P6000102358	568	276,9	598,2	52
TERMINATION HEAD, UCON-H-18, KC4.2-16, ID 12 1/2, 10K KX SEAL, INSULATED FRAME W/O INSULATION, ASSY W/ GUIDE FRAME, FOR GAS PLR	P6000101980	1814	4904	1727	8841
TERMINATION HEAD, UCON-H-18, KC4.2-16, ID 12 1/2, 10K KX SEAL,244 BAR WP , INSULATED FRAME W/O INSULATION, ASSY W/ GUIDE FRAME	P6000119553	1788	4904	1727	8816
HUB UCON-H-18, KC4-16, ID 12 1/2, 10K KX SEAL,244 BAR WP, INSULATED HUB W/O INSULATION, NON-PARKING, ASSY, FOR GAS EXPORT	P6000100994	1660	2160	1666	4012
CAP UCON-H-18, INBOARD, HP METAL, REINSTALLABLE, KL4-16, ID 12 1/2, 10K KX SEAL, 7.5K DP, ASSY, F/ TOTAL W/FLOODING STAB - IN	P6000101944	997	1060	1335,4	1133
CAP UCON-H-18, INBOARD, LP ELASTOMER, KC4-16, ID 12 1/2, 10K, ASSY	P6000104029	678			74
CAP UCON-H-18, INBOARD, HP METAL, REINSTALLABLE, KL4-16, ID 12 1/2, 10K KX SEAL, 7.5K DP, ASSY, F/ TOTAL W/2 CHECK, OUT	P6000101945	845,9	1060	1335,4	1122

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
CAP UCON-H-18, INBOARD, HP METAL, REINSTALLABLE, KL4-16, ID 12 1/2, 10K KX SEAL, 7.5K DP, ASSY	P6000103814	358	1060	1323,5	1093
HUB UCON-H-18, KC4-16, ID 12 1/2, 10K KX SEAL,244 BAR WP, INSULATED HUB W/O INSULATION, NON-PARKING, ASSY, F/ GAS EXPORT	P6000119552	1660	2160	1666	4000
TERMINATION HEAD, UCON-H-18, KC4.2-16, ID 11, 10K KX SEAL,500 BAR WP, IN SULATED FRAME W/O INSULATION, ASSY W/ GUIDE FRAME, FOR WI	P6000101007	1828	4904	1727	9002
TERMINATION HEAD, UCON-H-18, KC4.2-16, ID 11, 10K KX SEAL, 7.5K WP, INSULATED FRAME W/O INSULATION, ASSY W/ GUIDE FRAME, FOR WI PLR	P6000101986	1788	4904	1727	9068
CAP UCON-H-18, OUTBOARD, LP ELASTOMER, KC4-16, ID 11, ASSY	P6000102356	568	274,9	598,2	50
TERMINATION HEAD, UCON-H-18, KC4.2-16, ID 11, 10K KX SEAL,500 BAR WP, IN SULATED FRAME W/O INSULATION, ASSY W/ GUIDE FRAME, FOR RISER BASE	P6000119325	1788	4904	1727	9029
CAP UCON-H-12, INBOARD, HP METAL, REINSTALLABLE, KL4-12, ID 6, 10K KX, A SSY, W/SLC	P6000101950	820	276	1064	473
HUB UCON-H-12, KC4-12, ID 6, 10K KX SEAL,500 BAR WP, NON INSULATED, INLI NE-TEE, ASSY	P6000100785	1072	1720	1531	3119
CAP UCON-H, INBOARD, PROTECTION, KC4-12, ASSY, MONO-BORE	P6000108905				
HUB UCON-H-18, KC4-16, ID 11, 10K KX SEAL,500 BAR WP, INSULATED HUB W/O INSULATION, NON-PARKING, ASSY, FOR WI	P6000100984	1660	2160	1666	4139
CAP UCON-H-18, INBOARD, HP METAL, REINSTALLABLE, KL4-16, ID 11, 10K KX S EAL, 7.5K DP, ASSY, F/ TOTAL W/FLOODING STAB - IN	P6000101948	997	1060	1335,4	1132

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
CAP UCON-H-18, INBOARD, HP METAL, REINSTALLABLE, KL4-16, ID 11, 10K KX S EAL, 7.5K DP, ASSY, F/ TOTAL W/2 CHECK OUT	P6000101949	845,9	1060	1335,4	1122
HUB UCON-H-18, KC4-16, ID 11, 10K KX SEAL,500 BAR WP, INSULATED HUB W/O INSULATION, NON-PARKING, ASSY, FOR RISER BASE	P6000119321	1660	2160	1666	4175
CAP UCON-H-18, OUTBOARD, LP ELASTOMER, KC4-16, ID 12, ASSY, FOR INSULATE D TERMINATION HEAD	P6000102357	568	359		92
TERMINATION HEAD, UCON-H-18, KC4.2-16, ID 12, 10K KX SEAL,517 BAR WP, IN SULATED, ASSY W/ GUIDE FRAME, FOR PRODUCTION MANIFOLD	P6000105358	1815	4904	1727	9932
CAP UCON-H-18, INBOARD, PROTECTION, KC4-16, ASSY	P6000108901		846,4	1106	99
Well Jumper Products					
WELL JUMPER, ASSY, PRODUCTION, PJP1C FROM PN1C TO PN1_SLOT_C WP, 168, 3 OD X 18.3 WT	P6000105263	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP2C FROM PN2C TO PN2_SLOT_C WP, 168, 3 OD X 18.3 WT	P6000105243	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP2E FROM PN2E TO PN2_SLOT_E WP, 168, 3 OD X 18.3 WT	P6000105261	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP3C FROM PN3C TO PN3_SLOT_C WP, 168, 3 OD X 18.3 WT	P6000105260	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP3E FROM PN3E TO PN3_SLOT_E WP, 168, 3 OD X 18.3 WT	P6000105258	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP4C FROM PN4C TO PN4_SLOT_C WP, 168, 3 OD X 18.3 WT	P6000105257	10001	26139	2994	20046

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
WELL JUMPER, ASSY, PRODUCTION, PJP4D FROM PN4D TO PN4_SLOT_D WP, 168, 3 OD X 18.3 WT	P6000109784	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP1B FROM PS1B TO PS1_SLOT_B WP, 168, 3 OD X 18.3 WT	P6000109783	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP1C FROM PS1C TO PS1_SLOT_C WP, 168, 3 OD X 18.3 WT	P6000105254	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP2C FROM PS2C TO PS2_SLOT_C BAR DP, 16 8.3 OD X 18.3 WT	P6000105253	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP2D FROM PS2D TO PS2_SLOT_D BAR DP, 16 8, 3 OD X 18.3 WT	P6000105249	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP2D FROM PS2D TO PS2_SLOT_D BAR DP, 16 8, 3 OD X 18.3 WT	P6000105248	10001	26139	2994	20046
WELL JUMPER, ASSY, PRODUCTION, PJP1F FROM PN1F TO PN1_SLOT_F WP, 168, 3 OD X 18.3 WT	P6000105223				
WELL JUMPER, ASSY, PRODUCTION, PJP2A FROM PN2A TO PN2_SLOT_A WP, 168, 3 OD X 18.3 WT	P6000105242				
WELL JUMPER, ASSY, PRODUCTION, PJP3A FROM PN3A TO PN3_SLOT_A WP, 168, 3 OD X 18.3 WT	P6000105262				
WELL JUMPER, ASSY, PRODUCTION, PJP4F FROM PN4F TO PN4_SLOT_F WP, 168, 3 OD X 18.3 WT	P6000105259				
WELL JUMPER, ASSY, PRODUCTION, PJP1A FROM PS1A TO PS1_SLOT_A WP, 168, 3 OD X 18.3 WT	P6000105256				

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
WELL JUMPER, ASSY, PRODUCTION, PJPS1F FROM PS1F TO PS1_SLOT_F WP, 168, 3 OD X 18.3 WT	P6000105255				
WELL JUMPER, ASSY, PRODUCTION, PJPS2A FROM PS2A TO PS2_SLOT_A WP, 168, 3 OD X 18.3 WT	P6000105251				
WELL JUMPER, ASSY, PRODUCTION, PJPS2F FROM PS2F TO PS2_SLOT_F BAR WP, 16 8.3 OD X 18.3 WT	P6000105250				
WELL JUMPER, ASSY, PRODUCTION, PJPS2F FROM PS2F TO PS2_SLOT_F BAR WP, 16 8.3 OD X 18.3 WT	P6000105247				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105224				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105278				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105277				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105276				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105275				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105274				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105273				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105272				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105271				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105270				

EGINA 218

Component Dimensions and Weight

Descripton	FMC P/N	Width (mm)	Length (mm)	Height (mm)	Weight (Kg)
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105269				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105268				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105267				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000105266				
CAP UCON-H-12, OUTBOARD, LP ELASTOMER, KC4-12, ID 6, ASSY	P6000102355	426	228,2		58
CAP UCON-H-12, OUTBOARD, HP ELASTOMER, KC4-12, ID 6, ASSY, TOTAL, EGINA	P6000123181	426		458	106
TERMINATION HEAD, UCON-H-12, KC4.2-12, ID 6, 10K KX SEAL, 500 BAR WP, NON INSULATED, ASSY W/ GUIDE FRAME, F/ TOTAL EGINA	P6000100999	1340	4113	1113	3202
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000109785				
WELL JUMPER, ASSY, WATER INJECTION, EGINA WP, 168, 3 OD X 15, 9 WT	P6000109786				

EGINA 219

TABLES

TABLES



TOTAL
COMMITTED TO BETTER ENERGY



EGINA



Technological Expertise
Local Commitment

