



TECHNICAL DOCUMENT

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TABLE OF CONTENT

1. INTRODUCTION ..... 5

1.1. DOCUMENT USE ..... 5

1.2. ABBREVIATIONS ..... 6

1.3. REFERENCES ..... 6

2. TECHNICAL DESCRIPTION ..... 7

2.1. GENERAL ..... 7

2.2. Ø100 SP VSTAB, BB7283 ..... 8

2.3. BA8201 Ø100 TEST RECEPTACLE 7,5K ..... 10

2.4. BB7400 Ø100 PRESSURE STAB 7,5K ..... 11

2.5. BA6357 Ø100 PROTECTION STAB ..... 12

2.6. SPARE KIT ..... 13

3. INSTALLATION ..... 14

3.1. VALVESTAB ..... 14

3.1.1. HYDRAULIC CONNECTION ..... 14

4. PREPARATION FOR USE ..... 15

4.1. ONSHORE PREPARATIONS ..... 15

4.1.1. MOBILISATION CHECK LIST ..... 15

5. OPERATION ..... 16

5.1. PRE-DIVE CHECK ..... 16

5.1.1. Ø100 VSTAB PRE-DIVE CHECK LIST ..... 16

5.1.2. PRESSURE STAB PRE-DIVE CHECK LIST ..... 17

5.2. Ø100 VSTAB CONNECTION ..... 18

5.3. Ø100 VSTAB DISCONNECTION ..... 20



5.4. Ø100 PRESSURE STAB CONNECTION & DISCONNECTION .....21

5.5. POST DIVE CHECK .....22

6. MAINTENANCE .....23

6.1. GENERAL .....23

6.2. WEEKLY MAINTENANCE .....24

6.3. MONTHLY MAINTENANCE .....24

6.4. YEARLY MAINTENANCE .....25

6.5. SEAL REPLACEMENT .....26

7. STORAGE AND TRANSPORT .....27

7.1. STORAGE .....27

7.2. TRANSPORT .....27

APPENDIX 1 .....SYSTEM DRAWINGS  
28

REVISION CHANGE/RECORD

REV	REASON FOR REVISION/ DESCRIPTION OF CHANGES
01	First issue

## 1. INTRODUCTION

The purpose of this document is to present a comprehensive Operation and Maintenance manual for the Blue Logic designed Ø100 ValveStab BB7283.

All relevant aspects with regards to safe and correct use, installation, operation, maintenance, and storage are covered.

### 1.1. DOCUMENT USE

This document shall be used as general information for all aspects related to safe use, installation, removal, maintenance and storage of the Ø100 VStab System. Included in this Operation and Maintenance Manual are sequential step-by-step procedures for typical offshore operations which can be used for establishing detailed specialized offshore/subsea procedures. These lists can also be used for documentation of performed work and sequences if required.



## 1.2. ABBREVIATIONS

BL	Blue Logic
CW	Clockwise
CCW	Counterclockwise
DEMOB	Demobilisation
HP	High Pressure
HPU	Hydraulic Power Unit
MOB	Mobilisation
ROV	Remotely Operated Vehicle
SOW	Scope of Work
SP	Single Port
VStab	Valve Stab

## 1.3. REFERENCES

Latest version of the following documents.

Id	Doc. No/Rev/	Originator	Document Title
1.	BB7400	BL	Ø100 SP Press VStab 7,5K
2.	BB7283	BL	Ø100 SP VStab 7,5K Interv 90Deg 2" fig. 1502 Pull-in Head
3.	BA8201	BL	Ø100 VStab Rec 7,5K
4.	BA6357	BL	Ø100 SP Prot VStab Vented Long-term
5.	BB7329	BL	Scope O-ring Seals Replacement Kit Tools Hot Stab Pull Head

## 2. TECHNICAL DESCRIPTION

### 2.1. GENERAL

The Ø100 ValveStab System is designed according to API 17H Type 3 and based on Blue Logic's valve stab program.

It is the responsibility of the end user to make sure that the product is used in such a manner for which it is designed. This includes accounting for material/fluid compatibility, sour service, temperature, pressure rating etc. Refer to specific product drawing which includes all relevant information. If product drawing is lacking information/unclear, please contact Blue Logic for assistance.

## 2.2. Ø100 SP VSTAB, BB7283

The BB7283 Ø100 Single Port Valve Stab is designed for intervention use and constructed in stainless steel and aluminum bronze materials for excellent corrosion resistance. A guide nose in front of the stab ensures easy and gentle alignment of the stab when entering the receptacle for mating.

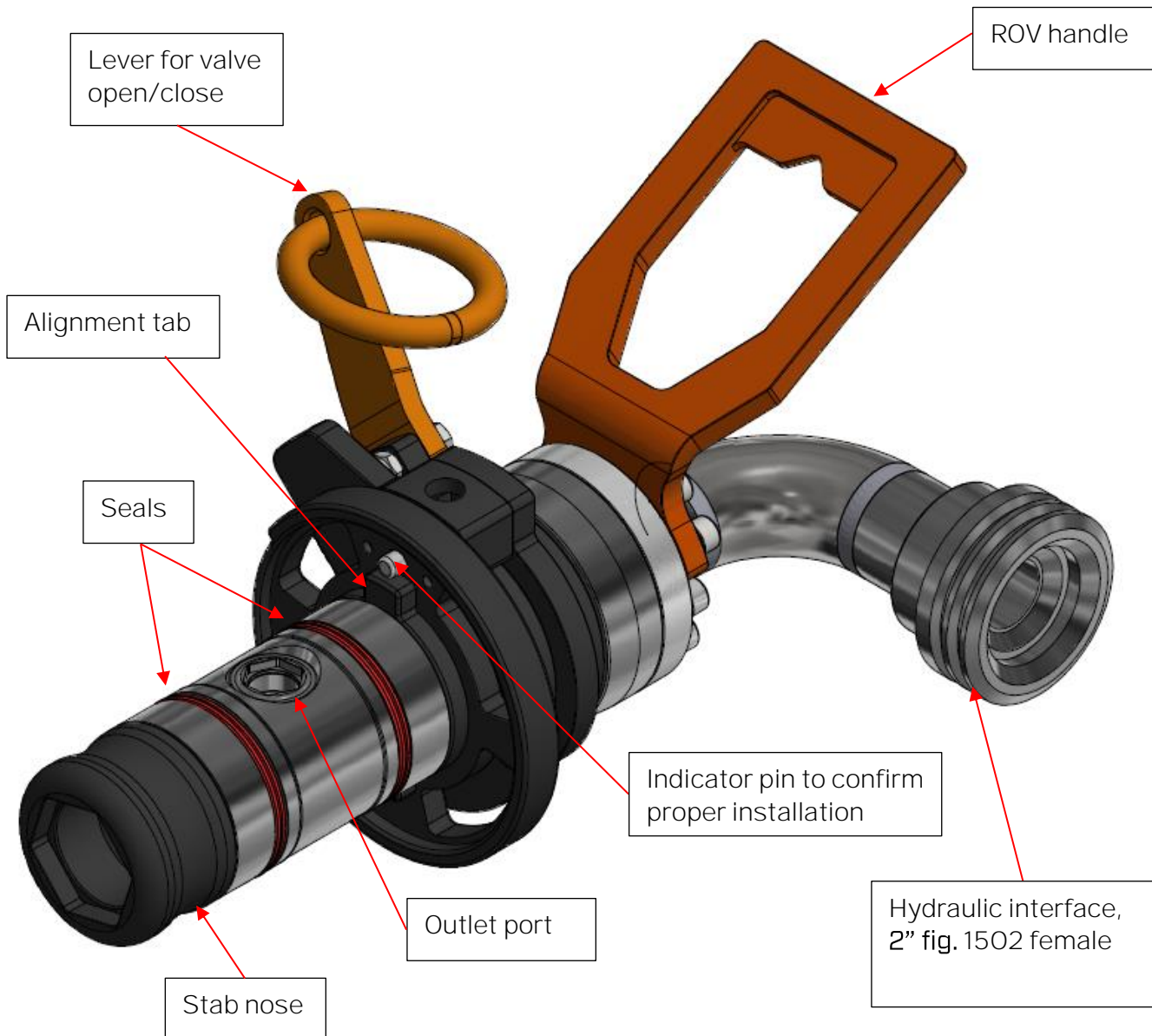


Figure 1, Ø100 SP ValveStab

When the stab is fully inserted into the female receptacle, a ROV can operate the valve handle on the side of the stab which simultaneously opens both the ball valve in the stab and the ball





## TECHNICAL DOCUMENT

valve in the receptacle. When the connector system is set in open position, the stab will be automatically locked into the receptacle.

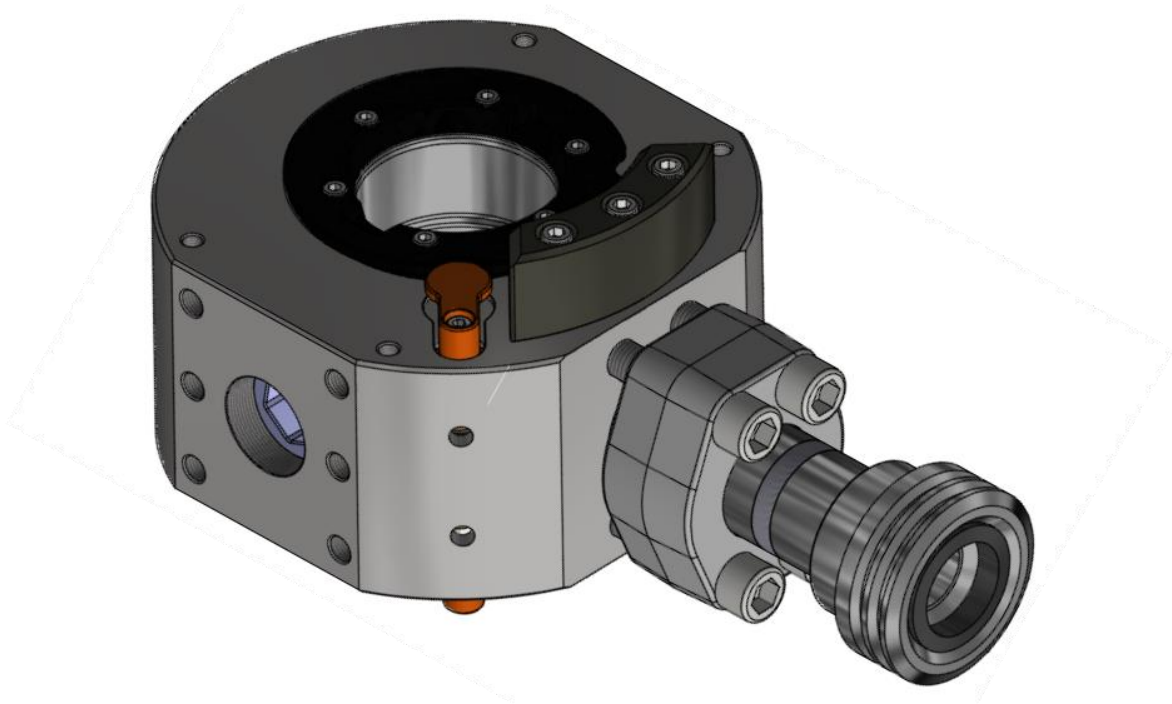
Hydraulic interface towards hose is 2" fig.1502 connector.  
The valve function must be set in fully closed position to allow disconnection.

## Technical Data – Ø100 SP ValveStab

Overall dimensions	380 x 300 x 556 mm
Weight in air	34,8 kg
Weight in water	29,9 kg
Material	AISI 316L/Super Duplex/S165M/OM7
Working Pressure	7 500 Psi / 517 Bar
Test pressure	11 250 Psi/ 776 Bar
Temperature range	-10 /+ 50°C
Nominal bore	Ø36 mm
Design Standard	API 17D, API 6A
Hose interface	2" fig.1502 female

## 2.3. BA8201 Ø100 TEST RECEPTACLE 7,5K

The Ø100 Test Receptacle is designed to allow for pressure testing and flushing of the Flushing Stab on deck prior to operation. Hydraulic interface represented by a 2" fig. 1502 Female interface.



*Figure 2 BA8201 Ø100 SP Valve Stab Receptacle*

Overall dimensions	Ø280 x 199,5 mm
Weight	72,3 kg
Material	S165M, Super Duplex
Working pressure	7 500 Psi / 517 Bar
Test pressure	11 250 Psi/ 776 Bar
Temperature range	-10 /+ 50°C
Nominal bore	Ø25,4 mm
Design standard	API 17D, API 6A
Hydraulic interface	2" fig. 1502 female
Mechanical interface	4 x M10

2.4. BB7400 Ø100 PRESSURE STAB 7,5K

The Ø100 Pressure Stab for Valve Stab receptacles are intended for permanent installation into the receptacle to protect against debris, calcification and other types of physical damage. The Ø100 Pressure Stab will retain full working pressure and thus acting as a second pressure barrier.



Figure 3 BB7400 Ø100 SP Pressure Stab

Overall dimensions	Ø120 x 417 mm
Weight in air	11,1 kg
Weight in water	9,3kg
Material	PEHD 1000 & Super Duplex
Working Pressure	7 500 Psi / 517 Bar
Test pressure	11 250 Psi/ 776 Bar
Temperature range	-10 /+ 50°C
Nominal bore	N/A
Design Standard	API 17D, API 6A
Hose interface	N/A



## 2.5. BA6357 Ø100 PROTECTION STAB

The Protection Stab is designed for physical protection of the Valve Stab female receptacle's seal areas. i.e. debris protection. It is ventilated to sea and hence non-pressure retaining. Material is PE-HD1000 (Polymeric), and the Debris Stab can be manually installed by hand and retrieved subsea by ROV from both sides of the Pull-Head. Note that the handles will be fabricated in rope/rubber hose to ensure low profile and easy access for ROV removal.

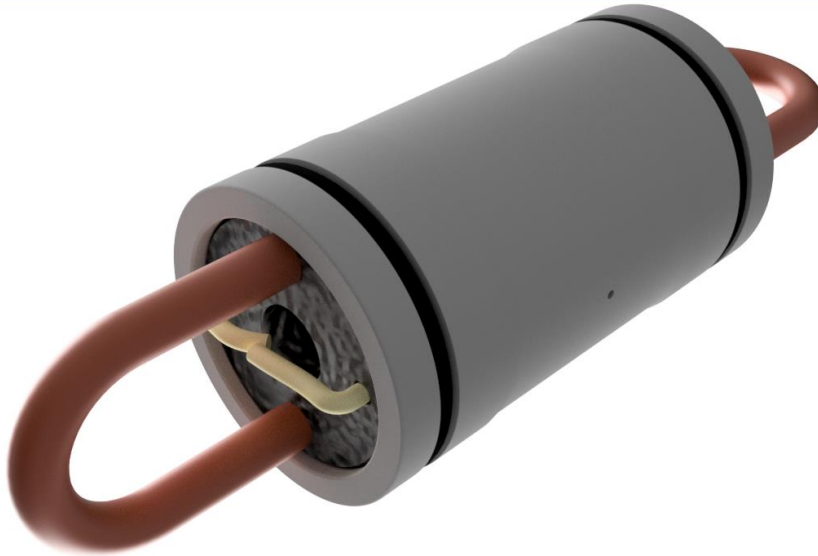


Figure 4 BA6357 Ø100 Protection Stab

Overall dimensions	Ø100 x 341 mm
Weight in air	0,9 kg
Weight in water	0,0 kg
Material	PEHD 1000 & POM
Working Pressure	N/A
Test pressure	N/A
Temperature range	-10 /+ 50°C
Nominal bore	N/A
Design Standard	API 17D, API 6A
Hose interface	N/A



### 2.6. SPARE KIT

Typical recommended spare parts for each unit includes the following:

ID	Qty	Article No.	Description	Parent Article
1	2	BB7728	Seal Cartridge Peek for Ø100 Stab 5K	Ø100 SP VStab
2	1	BA2318	Guide Nose Ø100	Ø100 SP Press. Stab
3	1	BA2171	Nose for Ø100 VStab	Ø100 SP VStab
4	2	104673	O-Ring BS025 D1=29,87 D2=1,78 (H2907 HNBR)	Ø100 SP VStab
5	2	104672	O-Ring BS123 D1=29,82 D2=2,62 (H2907 HNBR)	Ø100 SP VStab
6	2	104671	O-Ring BS028 D1=34,65 D2=1,78 (H2907 HNBR)	Ø100 SP VStab
7	2	104634	AX SEL-SEAL PO 31x37x2 FL5/MA9/PEEK 1	Ø100 SP VStab
8	2	100311	Stab System Seal Ø60x67,2x6,2	Ø100 SP VStab
9	2	100291	O-Ring BS341 D1=88,27 D2=5,33 NBR	Ø100 SP Protection Stab
10	4	100210	Ø100 Stab Seal	Ø100 SP Press. Stab Ø100 SP VStab
11	2	100132	Stab Seal Int. Ø78xØ85x6,2 HPU/NBR70	Ø100 SP VStab

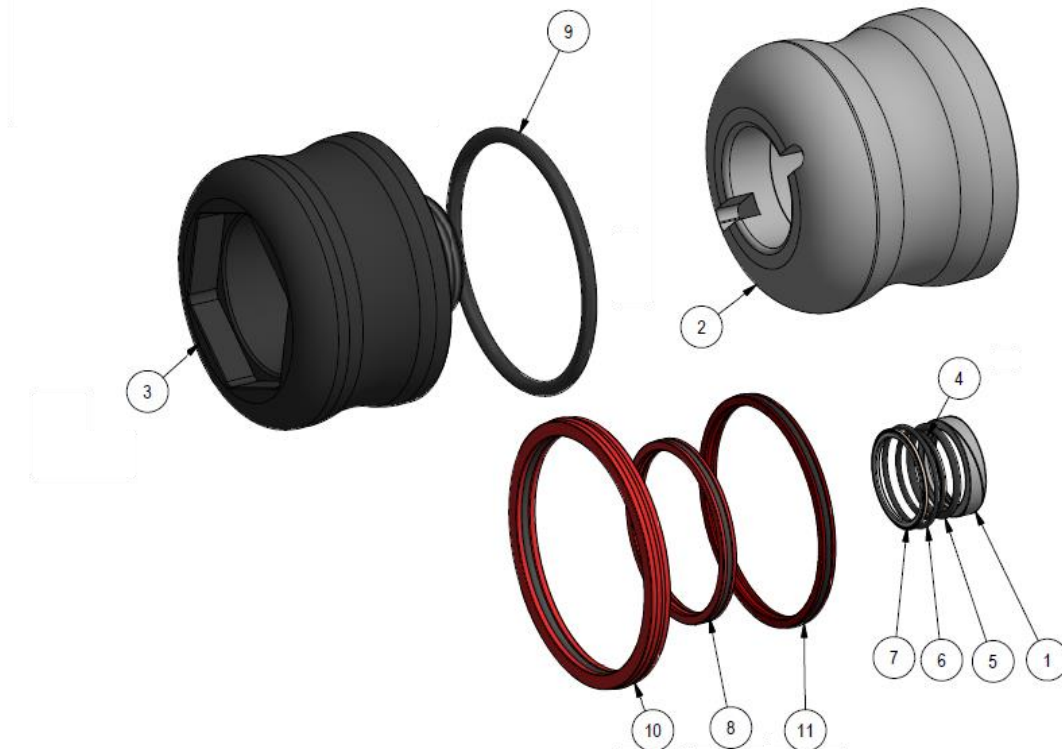


Figure 5, Spare Kit for Ø100 SP VStabSystem

## TECHNICAL DOCUMENT

### 3. INSTALLATION

#### 3.1. VALVESTAB

##### 3.1.1. Hydraulic Connection

The Ø100 VStab is equipped with a standard, top-mounted 2" fig, 1502 Female interface for hose interface.

Further details can be found in drawing BB7283, APPENDIX 1.

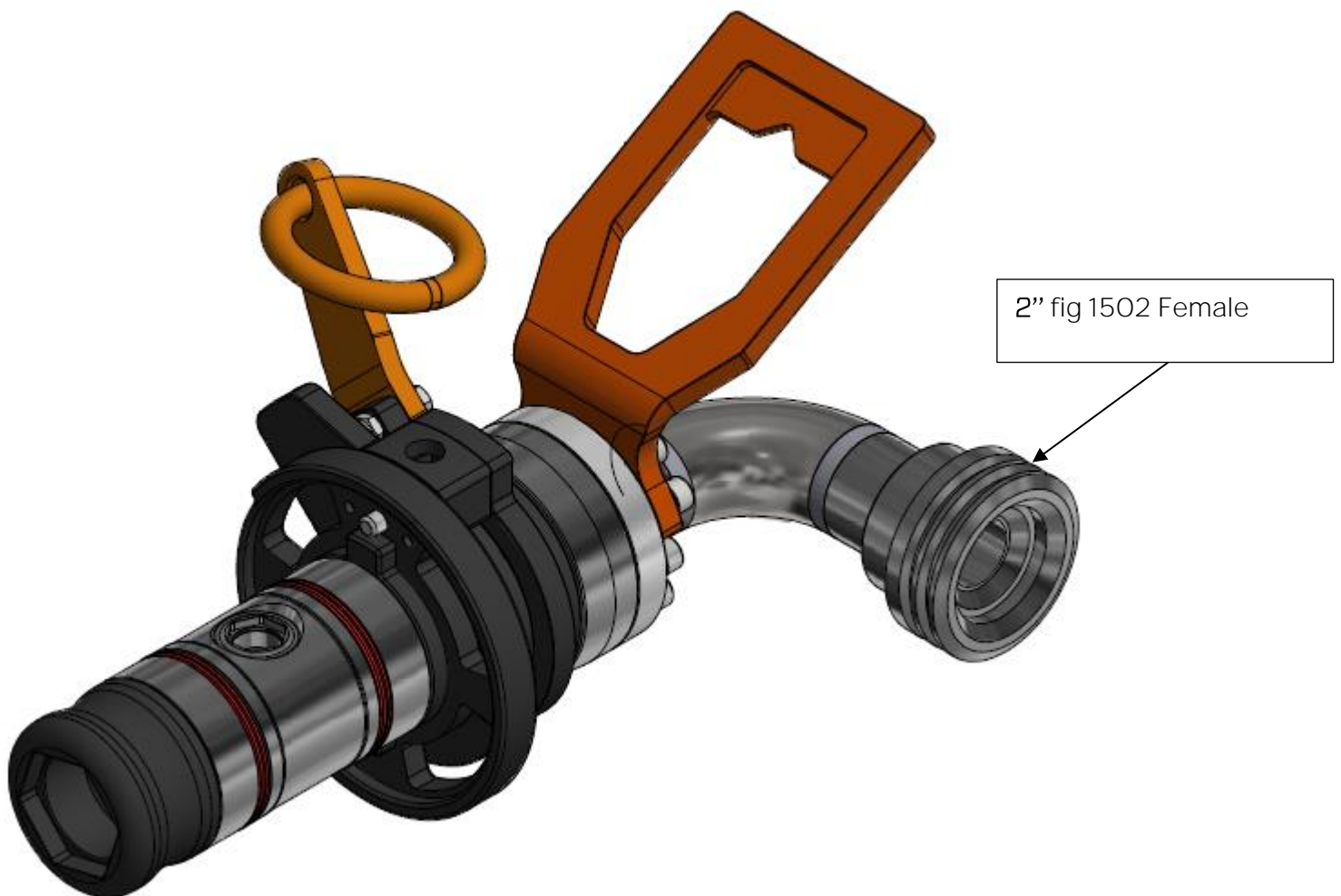


Figure 6, Hydraulic interface for Ø100 VStab



## 4. PREPARATION FOR USE

### 4.1. ONSHORE PREPARATIONS

Prior to shipping offshore, a mobilisation/ verification check shall be performed. All functions to be tested and verified. The below check list shall be used as a guideline for activities to be performed prior to offshore mobilisation.

Alternatively, the equipment can be returned to Blue Logic for full inspection and preparation for mobilisation.

#### 4.1.1. Mobilisation Check List

No.	Description	Chk/Verified
1.	Inspect the following equipment visually: <ul style="list-style-type: none"><li>- VStabs</li><li>- Test Receptacles</li><li>- Pressure Stabs</li><li>- Protection Stabs</li></ul>	
2.	Inspect surface treatment, touch up as required.	
3.	Inspect all stab seals for damages. Replace if in doubt.	
4.	Inspect pressure stab seals for damages. Replace if in doubt.	
5.	Inspect test receptacle seal areas undamaged and no scratches.	
6.	Perform function test / interface test of all VStabs, Pressure Stabs and Receptacles.	
7.	Perform pressure test of all VStabs in test Receptacles. Test pressure 517 bar verify no leaks for 5 minutes.	
8.	Verify correct packing and documentation available.	



TECHNICAL DOCUMENT

5. OPERATION

5.1. PRE-DIVE CHECK

Prior to dive, the Valve Stab System shall be inspected and function tested.

5.1.1. Ø100 VStab Pre-Dive Check List

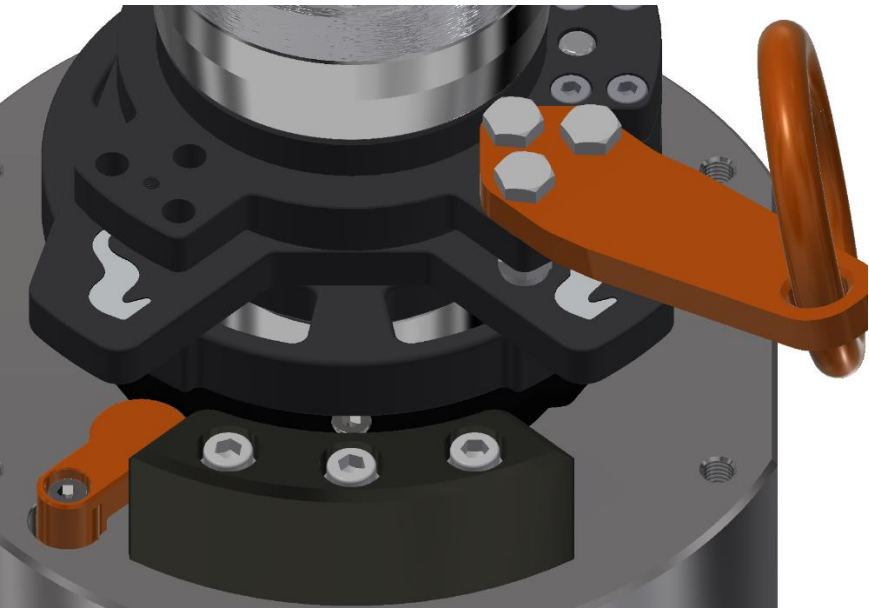
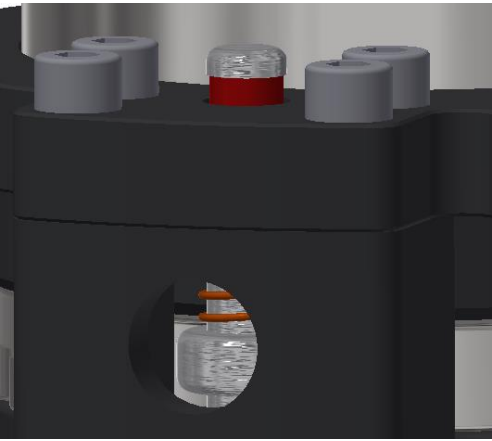
No.	Description	Chk/Verified
1.	Perform a visual inspection <ul style="list-style-type: none"><li>- Seals</li><li>- Seal Areas</li><li>- Hose and hose-connection</li><li>- ROV Handle</li><li>- Hose conditions, pressure rating, lengths and hose protection</li></ul>	
2.	Verify that the Valve Stab is closed and cannot be opened prior to insertion into receptacle.	
3.	Insert the Valve Stab into the test receptacle, verify smooth insertion.	
4.	Open the Valve Stab system using the ROV handle, verify smooth movement.	
5.	Perform a pressure test to verify seal integrity. Test pressure 517 bar, verify no leaks for 5 minutes.	
6.	Bleed off pressure, close ValveStab and disconnect from receptacle.	
7.	Inspect seals and seal areas.	



## 5.1.2. Pressure Stab Pre-Dive Check List

No.	Description	Chk/Verified
1.	Perform a visual inspection - Seals - Seal Areas - ROV Handle	
2.	Insert the Pressure Stab into the test receptacle, verify smooth insertion.	
3.	Disconnect Pressure Stab and inspect seals and seal areas.	

5.2. Ø100 VSTAB CONNECTION

No.	Description	Chk/Verified
1.	Remove the Protection Stab from the receptacle. The Protection Stab can be pulled out from both sides.	
2.	Inspect receptacle for debris etc., perform cleaning as required.	
3.	<p>Use a loose grip to allow the VStab to align itself during insertion. Insert and align the Ø100 VStab, verify that the alignment tab is correct positioned as shown below:</p> 	
4.	<p>Push the VStab all the way into the receptacle. Indicator pin will pop up (red) when fully inserted as illustrated below:</p> 	



No.	Description	Chk/Verified
5.	Rotate the valve handle CW to open stab and receptacle valves and lock the VStab in position.  Note: It is always recommended to open or close without pressure and flow over the Valve Stab system.	
6.	Perform fluid operation according to procedure.	

## 5.3. Ø100 VSTAB DISCONNECTION

No.	Description	Chk/Verified
1.	Stop fluid operation according to procedure.  Note: If feasible, it is recommended to bleed off pressure prior to disconnection to reduce wear and tear of stab seals.	
2.	Close valves and unlock the VStab from receptacle by operating the valve handle CCW.	
3.	Pull the VStab out of the receptacle.	
4.	Install pressure stab, ref. section 5.4 .	

## 5.4. Ø100 PRESSURE STAB CONNECTION &amp; DISCONNECTION

No.	Description	Chk/Verified
1.	Insert the Ø100 Pressure Stab all the way into the receptacle. No locking required as the Pressure Stab will be kept in position by friction between seals and receptacle's seal surface.	
2.	To disconnect; simply pull the Pressure Stab straight out of the receptacle.	
3.	Inspect seals and replace as required prior to re-installation.	

5.5. POST DIVE CHECK

No.	Description	Chk/Verified
1.	Recover ValveStab equipment to deck.	
2.	Perform a visual inspection <ul style="list-style-type: none"> <li>- Seals</li> <li>- Seal areas</li> <li>- ROV Handle</li> <li>- Valve handle, verify smooth operation</li> <li>- Hose and connection</li> <li>- Surface treatment</li> </ul>	
3.	Flush all equipment with fresh water to remove salt, debris etc. Install the VStab in test receptacle to allow internal flushing.	
4.	Dry off equipment and apply protective oil such as WD-40 or equivalent prior to storage.	

## 6. MAINTENANCE

### 6.1. GENERAL

The Ø100 Valve Stab system is a robust subsea connection system with few critical moving parts. If moving parts is not filled with salt and sand/ dirt particles but kept clean and lubricated, the only parts which will need to be routinely replaced is the seal system.

There are however a few important inspections points which shall be performed periodically to guarantee problem free use and operation of the Valve Stab system.

- Mob/Demob inspection and control
- Daily inspection during offshore operations
- Weekly inspection during offshore operations
- Yearly inspection and maintenance

It is highly recommended to return the Valve Stab system to Blue Logic for a yearly inspection and maintenance to ensure minimum 20 years of problem free service. By offshore operations we mean the time it is in use, not when it is stored.

For MOB/demob, please see above section 4.1.1

For Daily inspection during offshore operations, please see above section 5.1 for pre-dive activities and section 5.5 for post dive.

If replacement of seals is required, reference is made to section 6.5 for instructions.



## 6.2. WEEKLY MAINTENANCE

No.	Description	Chk/Verified
1.	Perform a visual inspection of VStab equipment.  Special attention should be made to the following: <ul style="list-style-type: none"><li>- Seals, ref 6.5 for replacement instructions</li><li>- Seal areas</li><li>- ROV Handle</li><li>- Valve handle, verify smooth operation</li><li>- Hose and connection</li><li>- Surface treatment</li></ul>	
2.	Insert the Valve Stab into test receptacle. Verify correct engagement.	
3.	Operate valve open / close mechanism, verify correct function and smooth operation.	
4.	Pull the Valve Stab out of the receptacle and verify that the valve function cannot be operated on either the receptacle or stab.	
5.	Ensure protective oil applied and no water/moisture entrapped on critical parts.	
6.	Put the equipment in dedicated aluminium transport box.	

## 6.3. MONTHLY MAINTENANCE

No special activities required monthly. If the stab system has been extensively used and repeatedly exposed to dirt and aggressive fluids, all seals shall be inspected and replaced if required.



6.4. YEARLY MAINTENANCE

It is recommended to return the equipment to Blue Logic for disassembly, full inspection, maintenance, and testing.




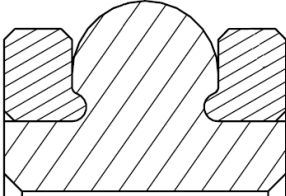
No.	Description	Chk/Verified
1.	Inspect all stab seals. Replace if required, ref. section 6.5.	
2.	Check all mechanical functions, verify smooth operation. Inspect for scratches and general wear.	
3.	Function-test VStab and receptacle, perform a full leakage test at working pressure to verify seal integrity.	
4.	Perform function and pressure test of Pressure Stab.	



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6.5. SEAL REPLACEMENT

Replacement of the stab seals is feasible to perform in field as described in the below section. The procedure covers both VSstab and Pressure Stab as the seals are identical.

No.	Description	Chk/Verified	
1.	Place the stab upside down in a vice or similar.		
2.	Gently remove the back-up rings in PEEK, avoid damage as they will be re-used. Blow the split of the ring with compressed air to ease removal.		
3.	Start with the seal closest to the D-handle. Use a long nose plier to grab the top of the seal and pull out of the seal groove.		
4.	Push the seal along the stab and over the other seals to remove from stab. If re-use not an option; cut the seal for quick removal.		
5.	Repeat until all seals have been removed. Clean stab and seal grooves thoroughly to remove all debris and foreign objects.		
6.	Apply a thin layer of Vaseline or similar to seals and stab prior to installing the new seals.		
7.	Install the seals starting with the one closest to the stab-nose. The following seals can then be pushed over the first seal. The seals are bi-directional, thus installable both ways.		
8.	Finally install two back-up rings per seal according to figure. The back-up rings <u>must</u> be installed as shown.		

As an option, a dedicated Seal Replacement Tool is available. Please contact Blue Logic for further details.



## 7. STORAGE AND TRANSPORT

### 7.1. STORAGE

No.	Description	Chk/Verified
1.	Visual inspect the equipment for damages and wear.	
2.	Ensure correct post dive sequence followed (see above sections)	
3.	Apply preservation oil, such as WD-40 or similar, and secure in storage boxes.	

### 7.2. TRANSPORT

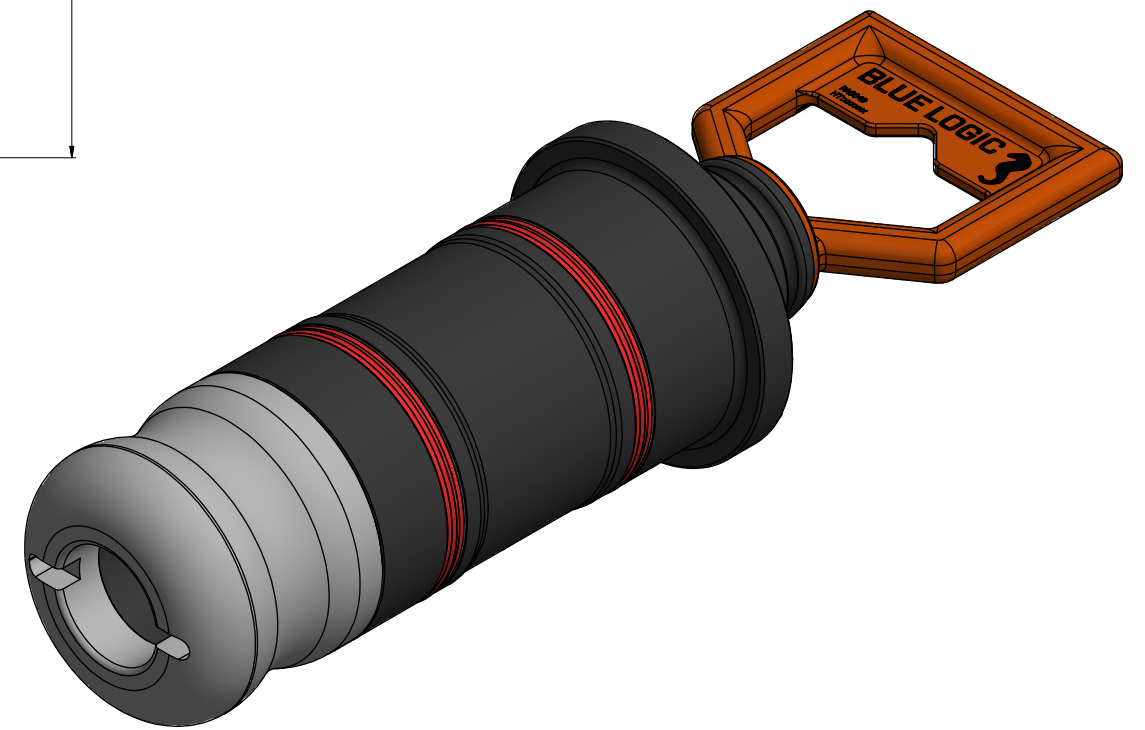
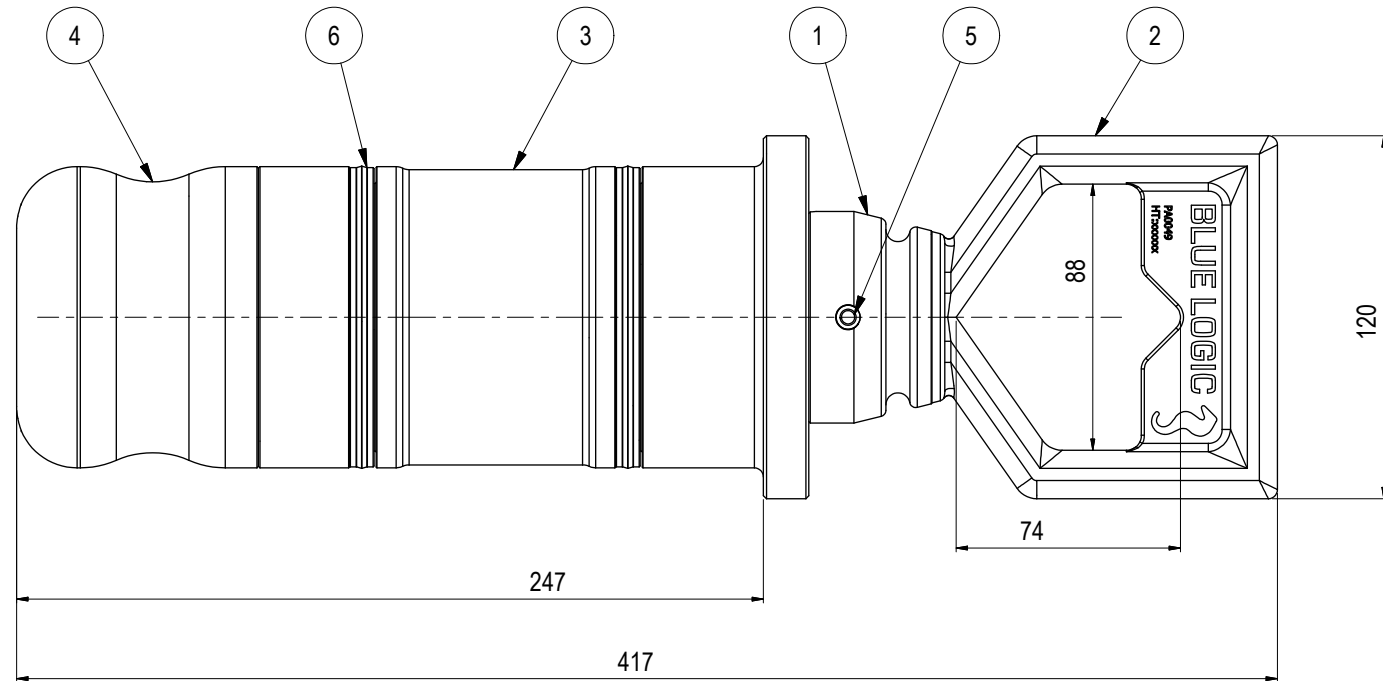
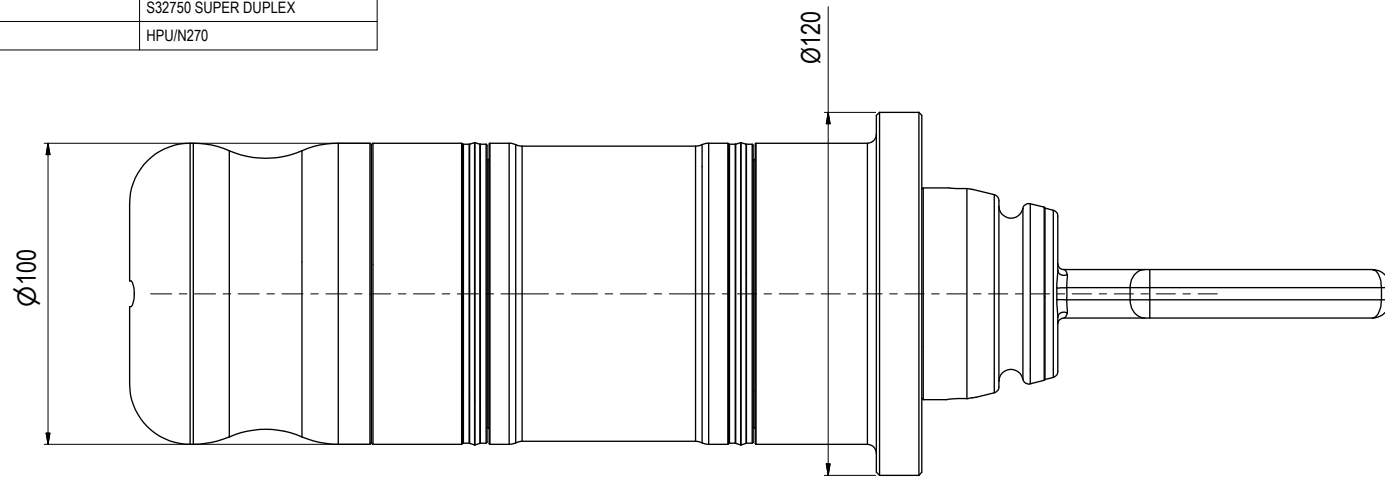
No special precautions are needed for transport. However, the following should be verified:

1. Packed in suitable packaging for sufficient protection during transport
2. Sender Name and Address clearly visible
3. Receiver Name and address clearly visible
4. Inventory list correct filled out

## APPENDIX 1 SYSTEM DRAWINGS

Dwg. No	Document Title
BB7400	Ø100 SP Press VStab 7,5K
BB7283	Ø100 SP VStab 7,5K Interv 90Deg 2" 1502 Pull-in Head
BA8201	Ø100 VStab Rec 7,5K
BA6357	Ø100 SP Prot VStab Vented Long-term
BB7329	Scope O-ring Seals Replacement Kit Tools Hot Stab Pull Head

Parts List					
ITEM	QTY	PART No.	DESCRIPTION	MATERIAL	
1	1	PA0050	Flex Element Nitril 85/90 sh	Rubber	
2	1	PA0049	D-Handle SD	UNS J93404 Casted Super Duplex	
3	1	BB7401	Ø100 SP Press VStab Body	S32750 SUPER DUPLEX	
4	1	BA2318	Guide Nose Ø100	PEHD 1000	
5	1	BA1581	Lock Bolt For Flex Handle SD.	S32750 SUPER DUPLEX	
6	2	100210	Ø100 Stab Seal	HPU/N270	



NOTE: 1  
DESIGN CODE:  
Testing: API 6A

NOTE: 2  
TECHNICAL CLASSIFICATION:  
Article Type: 003-Valve Stabs  
Main Group: 3.05. Ø100-Valvestab  
Intermediate Group: 3.35.04. Pressure  
Sub Group: 3.35.235.1. Single

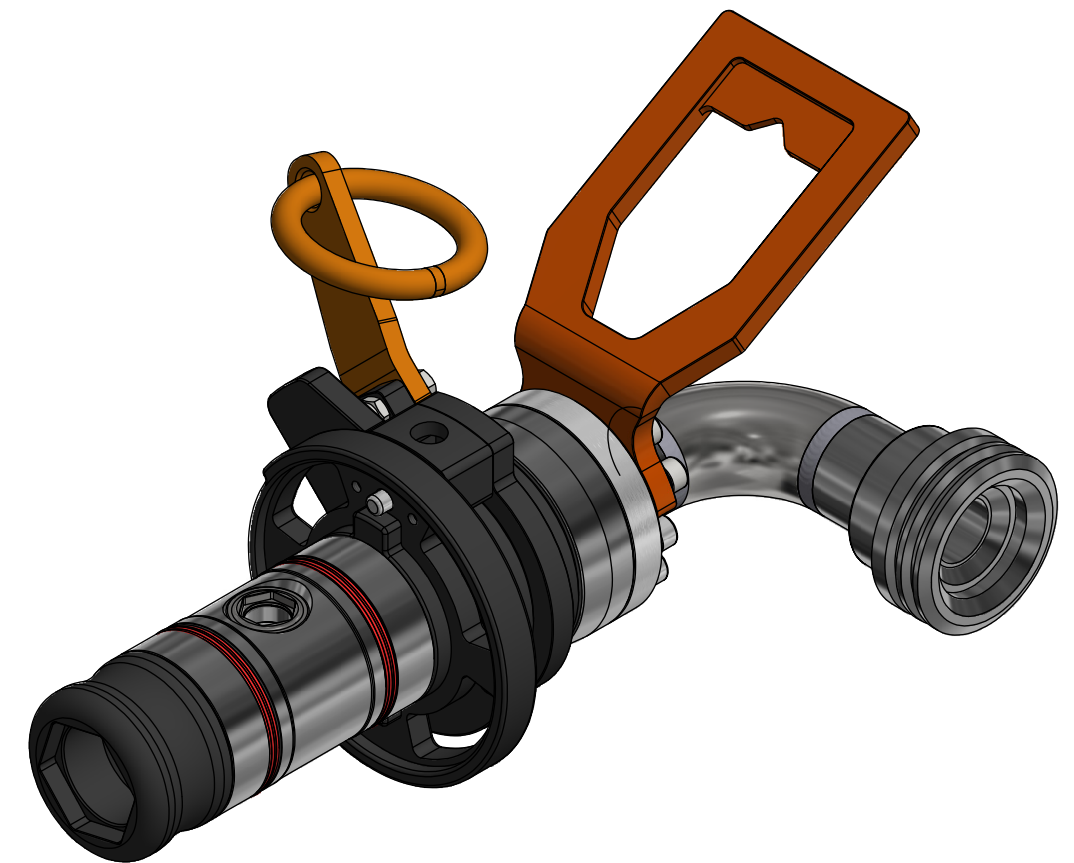
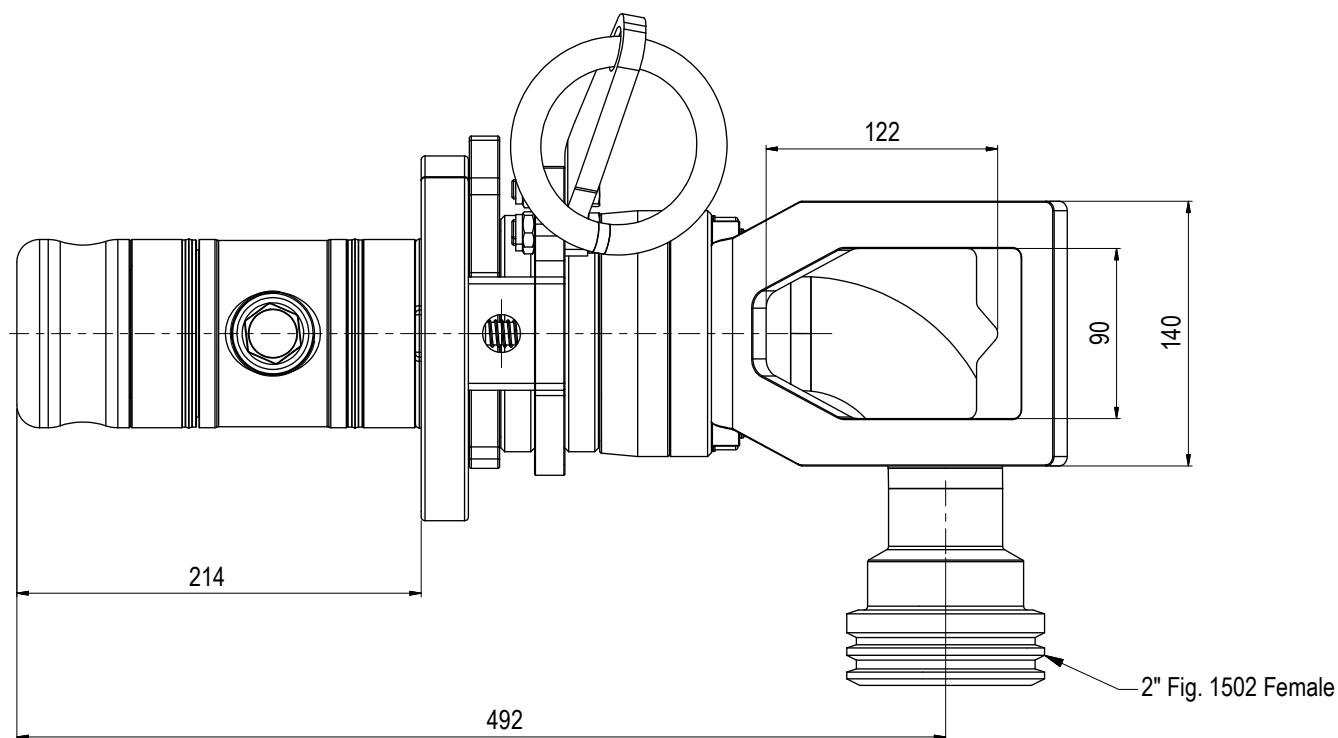
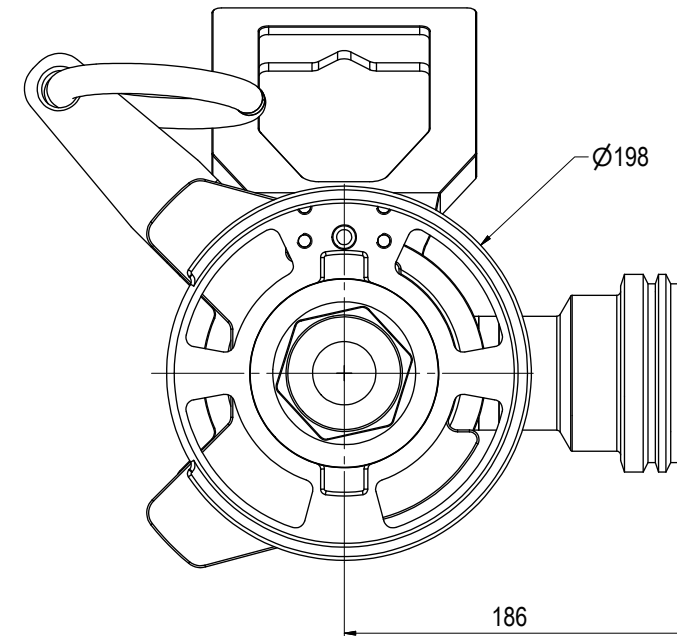
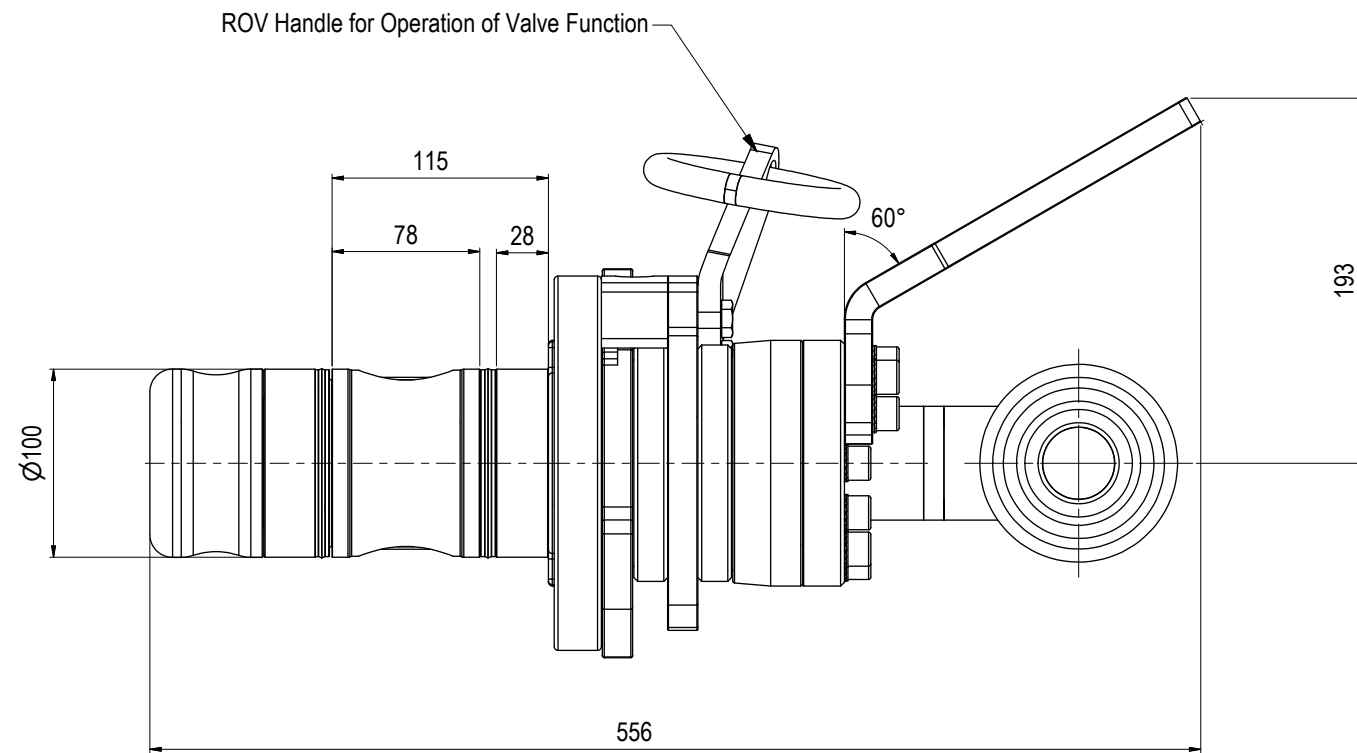
NOTE: 3  
INTERFACE INFORMATION:  
Pressure Rating Bar: 517  
Design Water Depth: 3000m  
Material: Long-term  
Weight in Air: 11,1 kg  
Volume: 1,8 dm<sup>3</sup>  
Submerged Weight: 9,27 kg  
Surface Area: 2547 cm<sup>2</sup>  
Hydraulic: N/A  
Mechanical: N/A  
Electrical: N/A  
Com. & Protocol: N/A

Rev.	Date	Reason for issue	Revision change	Made	Chk'd	Appr.
02	23.8.2022	7-IFC (Issued for Construction)		WTJ	TAN	LGH
01	16.12.2021	2-IFT (Issued for Tender)		WTJ	NA	NA



Dwg Scale:	NTS
Dwg Proj:	
Dwg Format:	A3

Drawing title:	Ø100 SP Press VStab 7,5K	
Drawing number:	BB7400	Rev: 02



NOTE: 1  
 DESIGN CODE:  
 Testing API 6A

NOTE: 2  
 TECHNICAL CLASSIFICATION:  
 Article Type: 003-Valve Stabs  
 Main Group: 3.05. Ø100-Valvestab  
 Intermediate Group: 3.35.01. Stab  
 Sub Group: 3.35.80.1. Single

NOTE: 3  
 INTERFACE INFORMATION:  
 Pressure Rating Bar: 517  
 Design Water Depth: 3000m  
 Material: 316L/SUPER DUPLEX/S165M/OM7  
 Weight in Air: 34,8 kg  
 Volume: 4,75 dm<sup>3</sup>  
 Submerged Weight: 29,9 kg  
 Surface Area: 10121 cm<sup>2</sup>  
 Hydraulic: 2" Fig. 1502 Female  
 Mechanical: N/A  
 Electrical: N/A  
 Com. & Protocol: N/A

04	23.11.2022	7-IFC (Issued for Construction)		WTJ	HNJ	WTJ
03	20.10.2022	7-IFC (Issued for Construction)		HNJ	LGH	HNJ
02	22.8.2022	7-IFC (Issued for Construction)		WTJ	LGH	WTJ
01	2.12.2021	2-IFT (Issued for Tender)		WTJ	LGH	WTJ
Rev.	Date	Reason for issue	Revision change	Made	Chk'd	Appr.

**BLUE LOGIC**

Dwg Scale:  
 NTS  
 Dwg Proj:  
 Dwg Format:  
 A3

Drawing title:  
 Ø100 SP VStab 7,5K Interv 90Deg 2" 1502 Pull-in Head

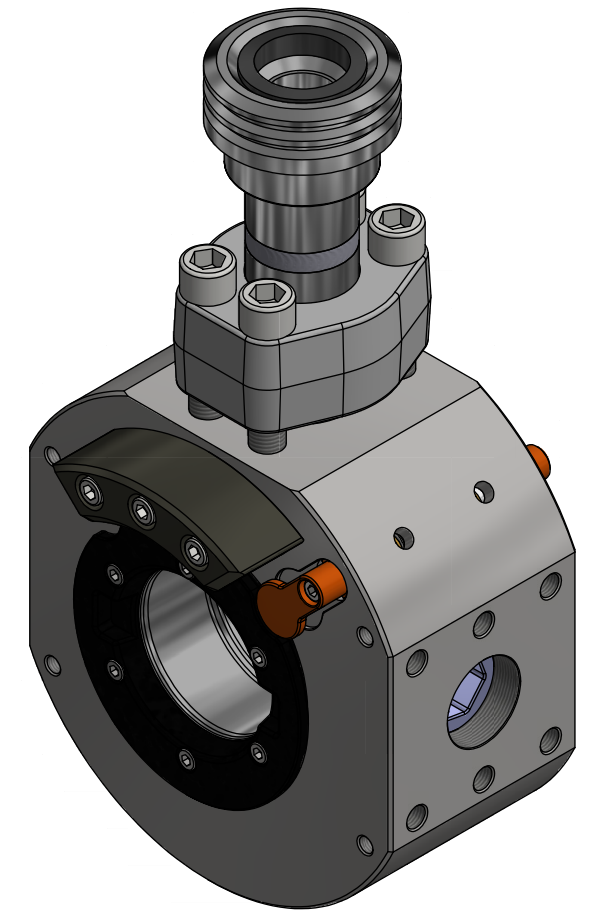
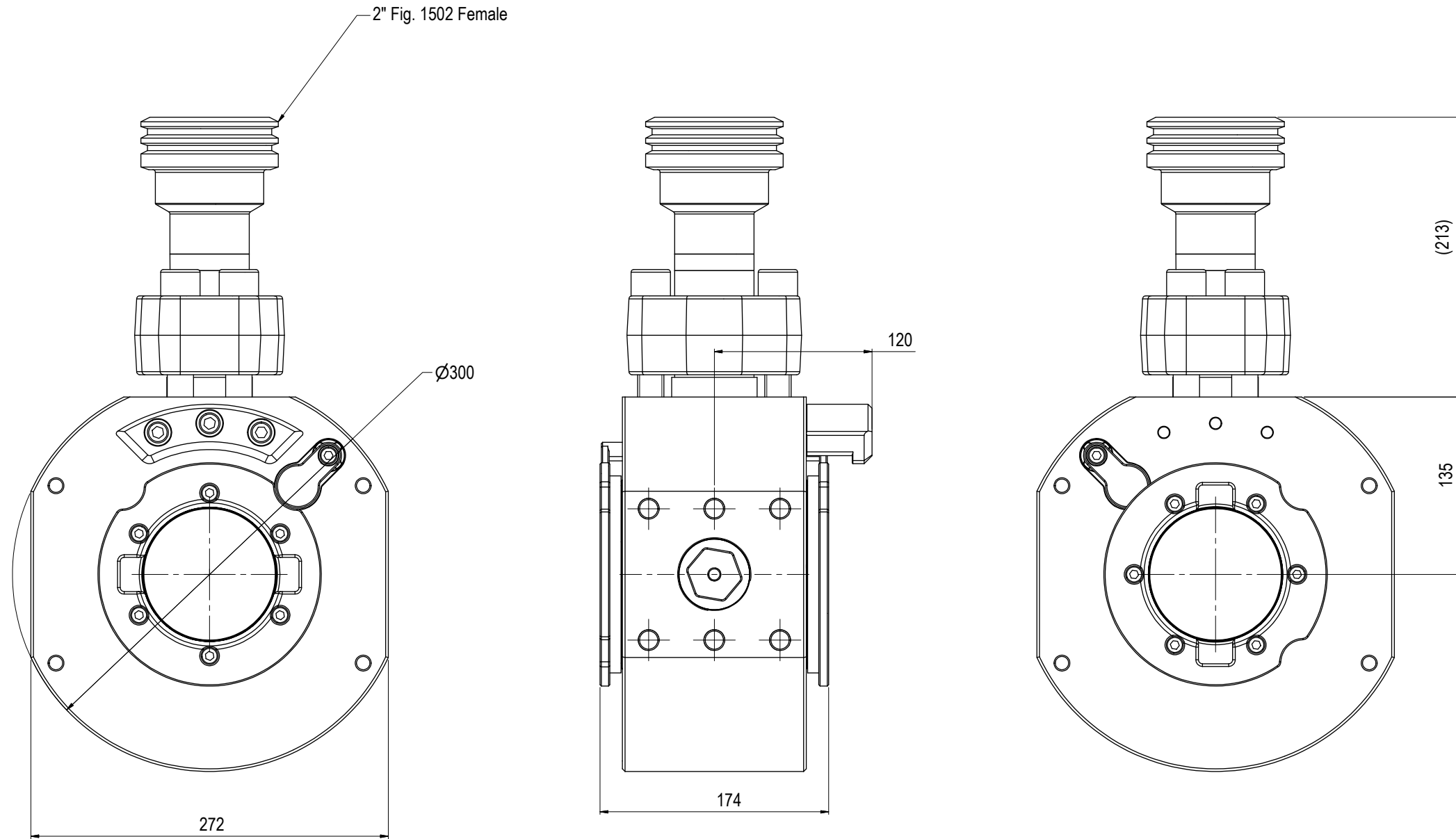
Drawing number:  
 BB7283

Rev.  
 04

NOTE: 1  
 DESIGN CODE:  
 Testing API 6A

NOTE: 2  
 TECHNICAL CLASSIFICATION:  
 Article Type: 003-Valve Stabs  
 Main Group: 3.06. Spesial-Valvestab  
 Intermediate Group: 3.36.02. Receptacle  
 Sub Group: 3.36.79.1. Single

NOTE: 3  
 INTERFACE INFORMATION:  
 Pressure Rating Bar: 517  
 Material: 316L/Super Duplex  
 Weight: 72,3 kg  
 Volume: 9,45 dm<sup>3</sup>  
 Surface Area: 10208 cm<sup>2</sup>  
 Hydraulic: 2" Fig 1502 Female  
 Mechanical: N/A  
 Electrical: N/A  
 Com. & Protocol: N/A

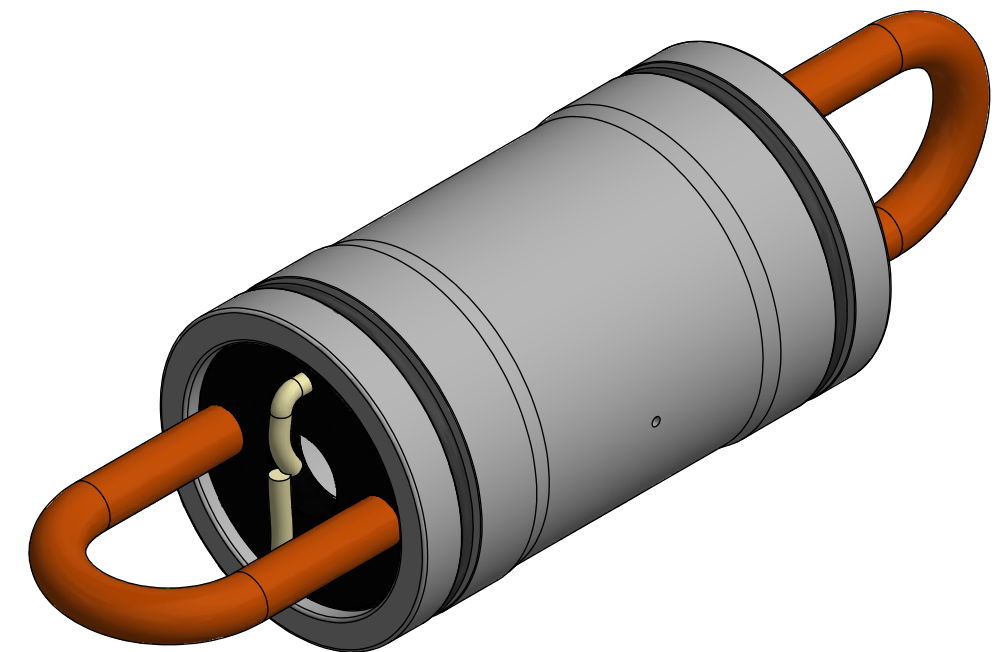
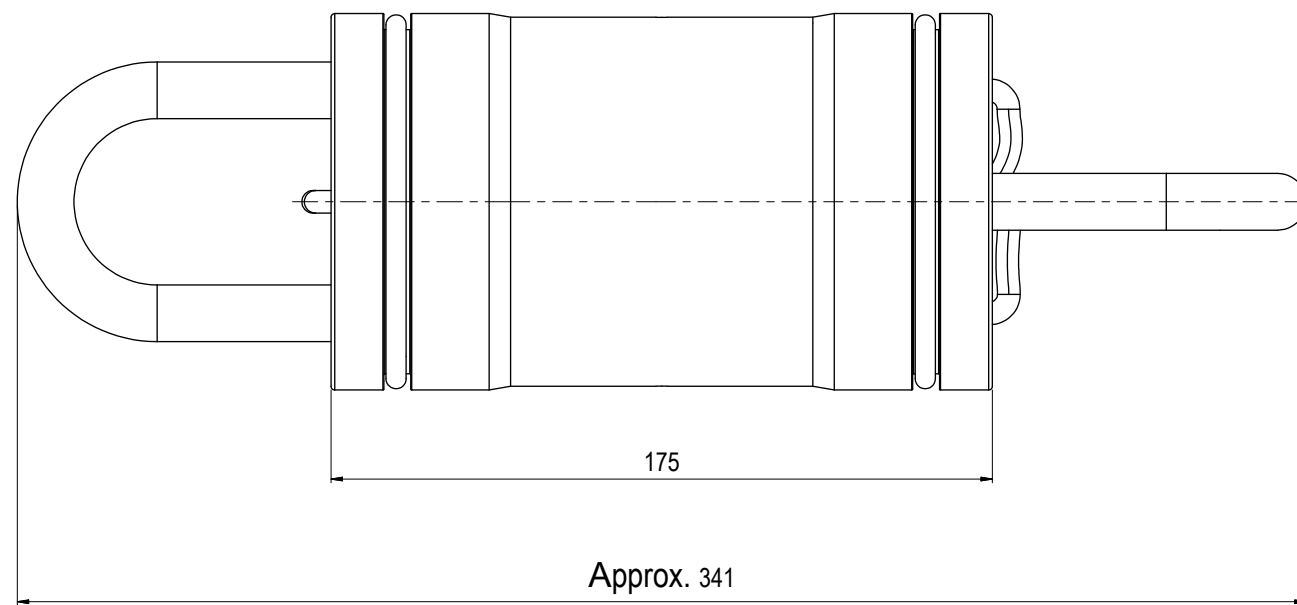
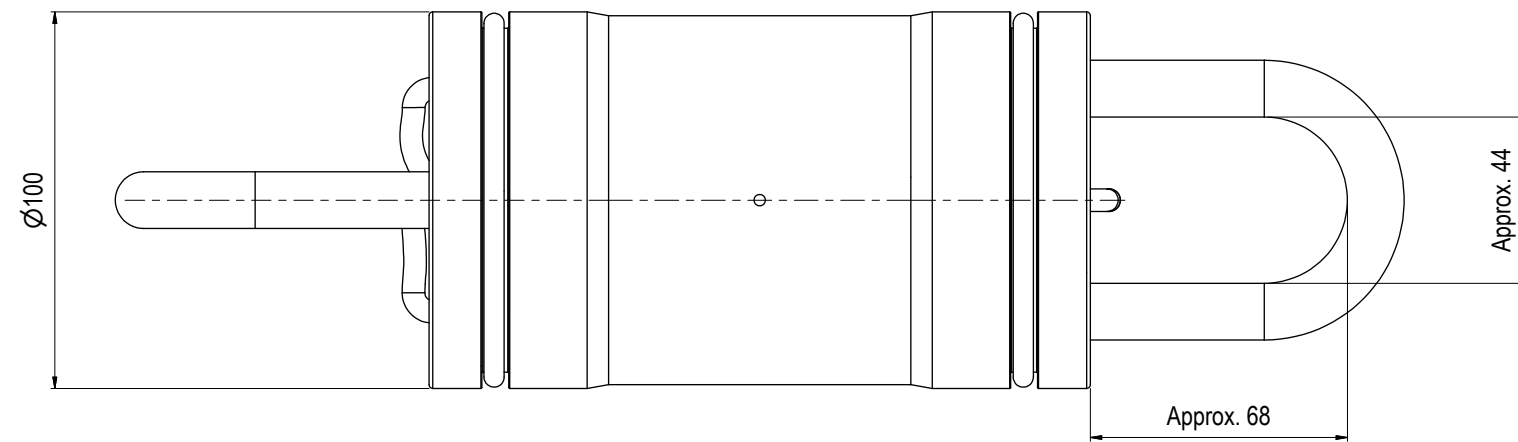


07	15.8.2022	7-IFC (Issued for Construction)		WTJ	LGH	WTJ
06	28.3.2022	7-IFC (Issued for Construction)		HNJ	TAN	HNJ
05	30.11.2017	9-IFU (Issued for Use)		WTJ	HNJ	WTJ
04	13.12.2016	9-IFU (Issued for Use)		WTJ	N/A	N/A
Rev.	Date	Reason for issue	Revision change	Made	Chk'd	Appr.



Dwg Scale:	NTS
Dwg Proj:	
Dwg Format:	A3

Drawing title:	Ø100 VStab Rec 7,5K
Drawing number:	BA8201
Rev:	07



NOTE: 1  
DESIGN CODE:  
N/A

NOTE: 2  
TECHNICAL CLASSIFICATION:  
Article Type: 003-Valve Stabs  
Main Group: 3.05. Ø100-Valvestab  
Intermediate Group: 3.35.03. Protection  
Sub Group: 3.35.168.1. Single

NOTE: 3  
INTERFACE INFORMATION:  
Pressure Rating Bar: Vented  
Design Water Depth:  
Material: Long-term  
Weight in Air: 0,9 kg  
Volume: 0,85 dm<sup>3</sup>  
Submerged Weight: 0 kg  
Surface Area: 1922 cm<sup>2</sup>  
Hydraulic: N/A  
Mechanical: N/A  
Electrical: N/A  
Com. & Protocol: N/A

04	7.11.2022	9-IFU (Issued for Use)		WTJ	HNJ	WTJ
03	12.8.2015	9-IFU (Issued for Use)		WTJ	HNJ	WTJ
02	5.8.2015	9-IFU (Issued for Use)		WTJ	LGH	WTJ
01	13.2.2015	2-IFT (Issued for Tender)		WTJ	LGH	WTJ
Rev.	Date	Reason for issue	Revision change	Made	Chk'd	Appr.

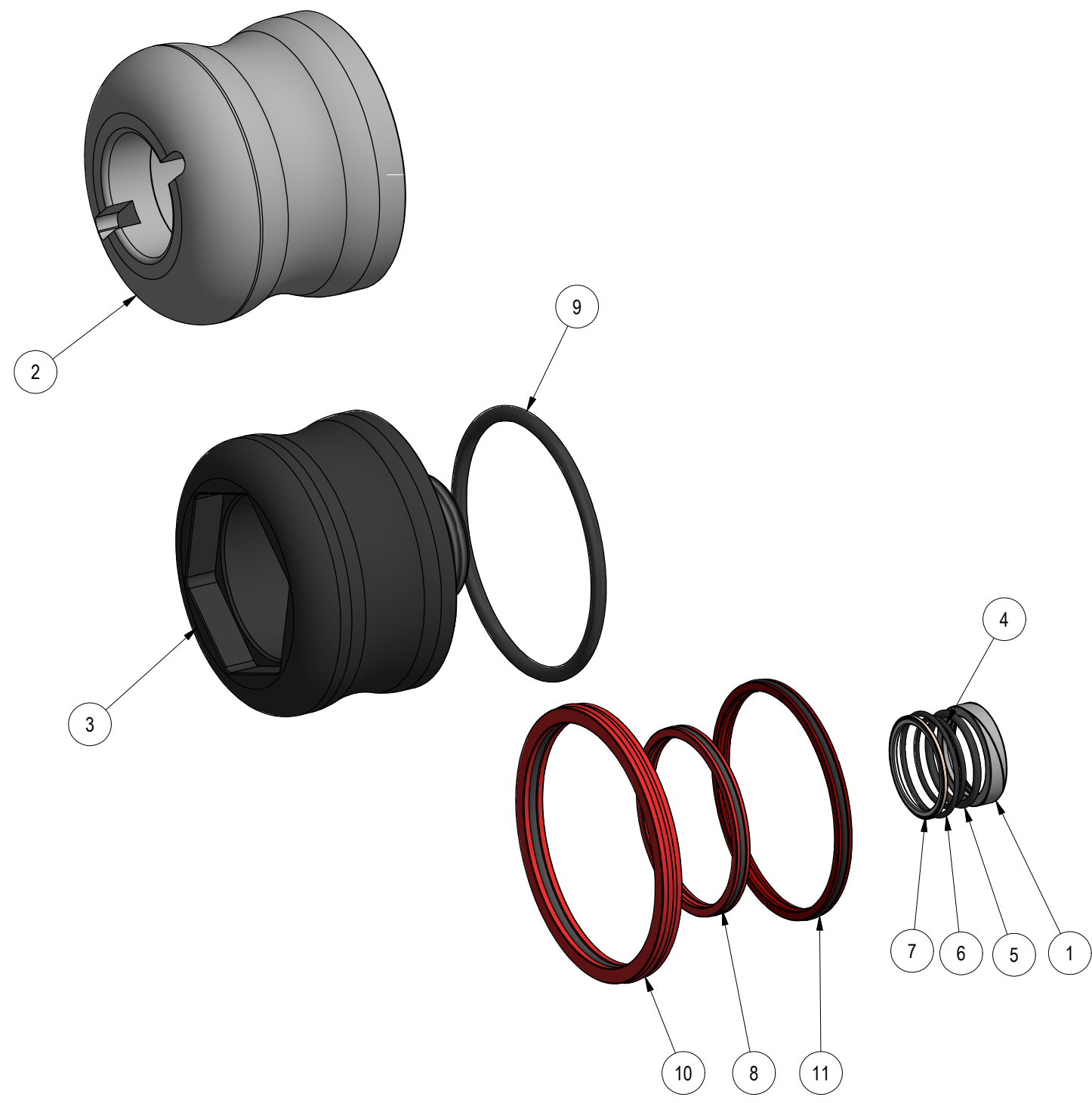


Dwg Scale:	NTS
Dwg Proj:	
Dwg Format:	A3

Drawing title:	Ø100 SP Prot VStab Vented Long-term Dual Entry	
Drawing number:	BA6357	Rev. 04



Parts List			
ITEM	QTY	PART No.	DESCRIPTION
1	1	BB7728	Seal Cartridge Peek for Ø100 Stab 5K
2	1	BA2318	Guide Nose Ø100
3	1	BA2171	Nose for Ø100 VStab
4	1	104673	O-Ring BS025 D1=29,87 D2=1,78 (H2907 HNBR)
5	1	104672	O-Ring BS123 D1=29,82 D2=2,62 (H2907 HNBR)
6	1	104671	O-Ring BS028 D1=34,65 D2=1,78 (H2907 HNBR)
7	1	104634	AX SEL-SEAL PO 31x37x2 FL5/MA9/PEEK 1
8	1	100311	Stab System Seal Ø60x67,2x6,2
9	1	100291	O-Ring BS341 D1=88,27 D2=5,33 NBR
10	1	100210	Ø100 Stab Seal
11	1	100132	Stab Seal Int. Ø78xØ85x6,2 HPU/NBR70



Rev.	Date	Reason for issue	Revision change	Made	Chk'd	Appr.
02	23.8.2022	7-IFC (Issued for Construction)		WTJ	TAN	WTJ
01	3.12.2021	2-IFT (Issued for Tender)		WTJ	N/A	N/A

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Dwg Scale:	Drawing title:
Dwg Proj:	Scope O-ring Seals Replacement Kit Tools Hot Stab Pull Head
Dwg Format:	Drawing number:
A3	BB7329
	Rev:
	02