



Unit 12 Barratt Trading Estate, Denmore Road, Bridge of Don, Aberdeen AB23 8JW

Hydraulic Tool Trap User Manual

This Manual Covers the Following Part Numbers:

168-4944-HV0

This is a certified safety critical product and modifications or changes not authorised by Phuel Oil Tools may compromise the Safety, Functionality and Certification of the assembly.

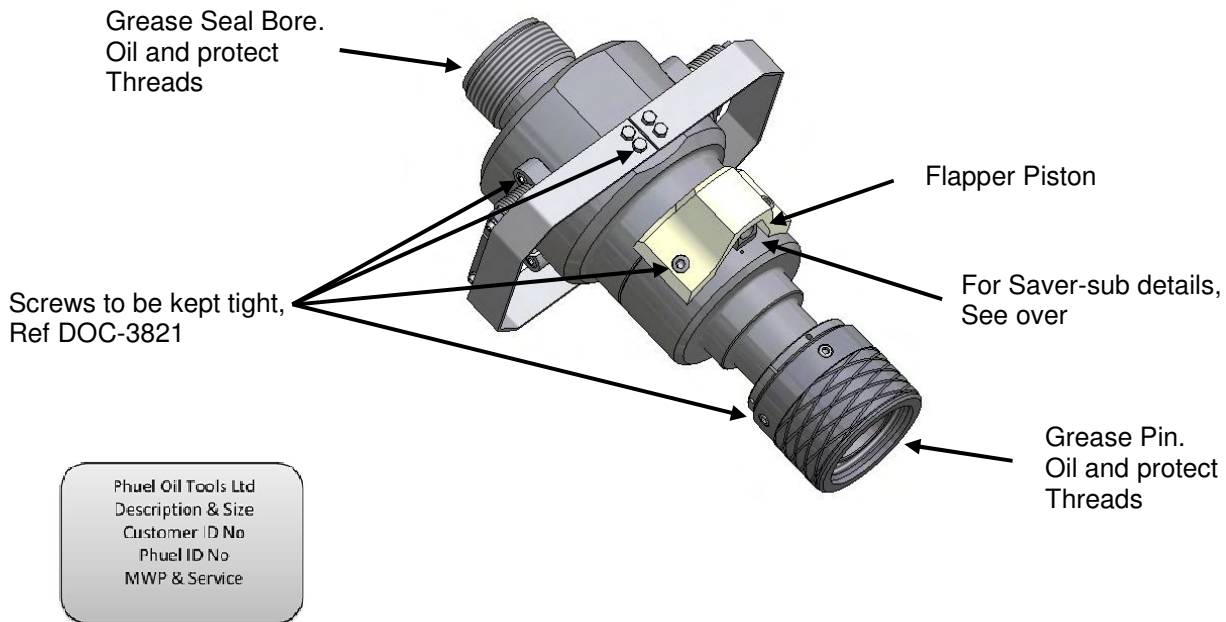
Safety Considerations:

All pressure equipment has a particular pressure rating and care must be taken to ensure that no item is used in a situation that may cause its working pressure to be exceeded.

This equipment is heavy and should not be lifted without lifting aids

OPS-4944 REV A

Recommended Operation and Maintenance for Tool Trap



Typical Identification Tag

Pre Job

- Check that the certification and scheduled maintenance is up to date.
- Examine the assembly, to make sure that it is good operating order, and seal areas and threads are not damaged.

Post Job

- After each job, the assembly should be thoroughly cleaned and redressed if required.
- The assembly should be protected against the effects of corrosion and damage.

Annually

- Inspect the condition of sealing surfaces and surface coatings, and threads, repair/replace as necessary.
- Re-coat threads and sealing surfaces if necessary. Contact Phuel if in doubt.
- Pressure Test to 300 to 500 psi and to maximum working pressure.
- Inspect paintwork and repair where necessary.

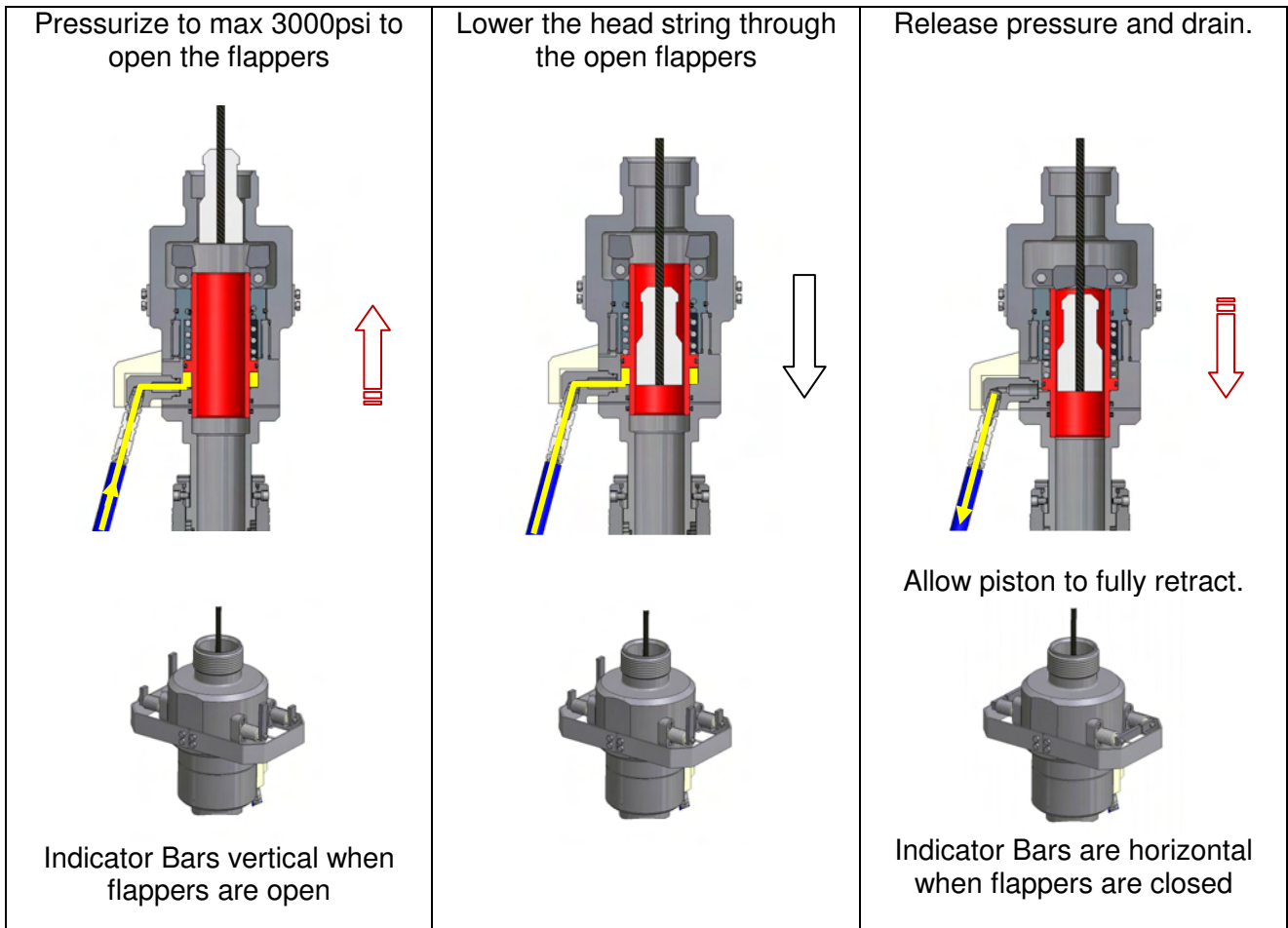
Five Yearly

- Recertification by Phuel Oil Tools in accordance with DNV-RP-E101

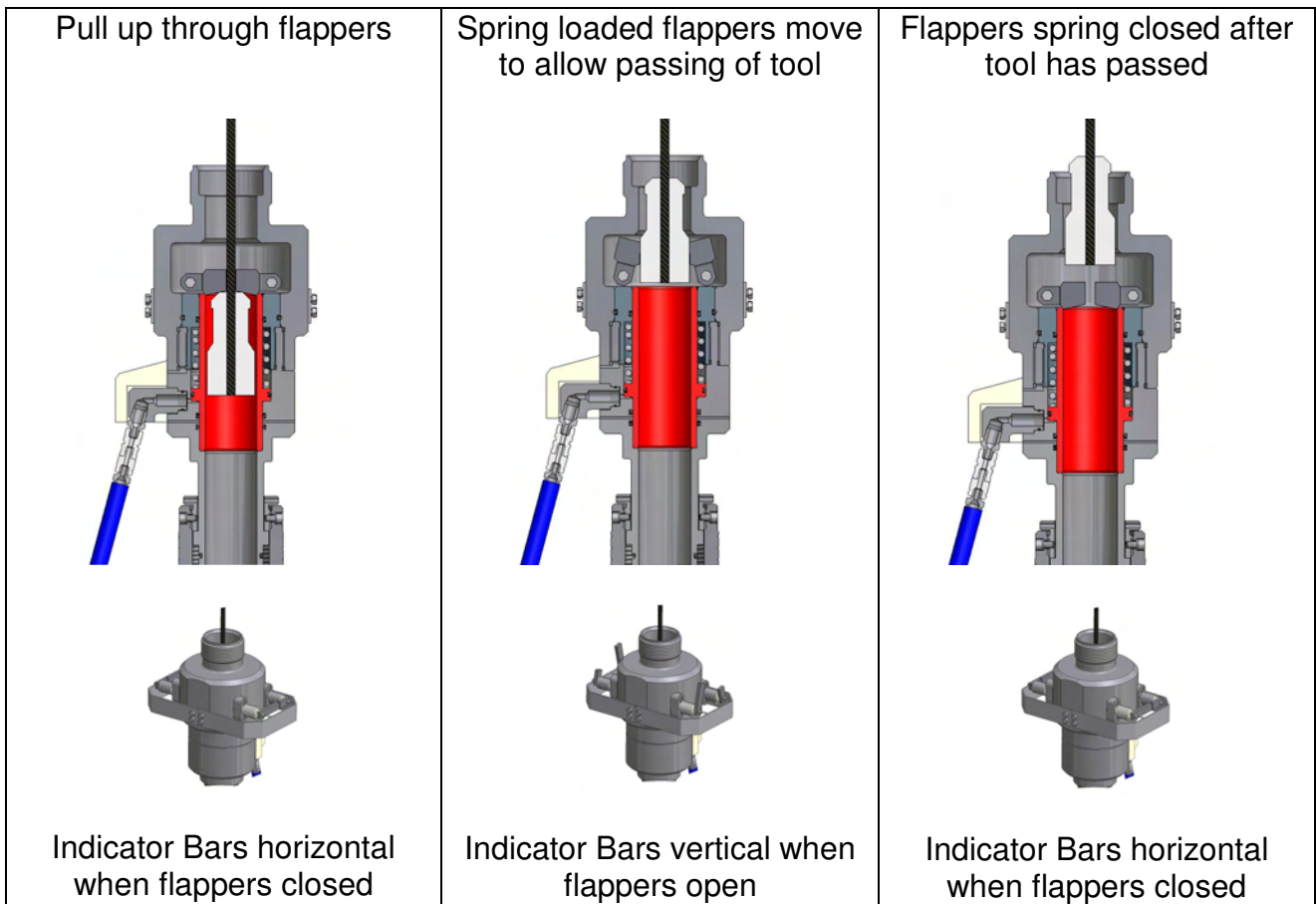
Pressure Test

- Fit the appropriate test cap and use Test Plug 900-5178-HV0
- Fill with test fluid, bleeding off any air in the system
- Apply pressure between 300 to 500 psi and hold for a minimum of 10 minutes
- Increase pressure to Maximum Working Pressure, allow to stabilise and hold for 15 minutes with no visible leaks.
- Bleed off pressure, drain test fluid, and remove test caps and dry
- Apply coating of de-watering solution to protect the bore and threads, and fit thread protectors

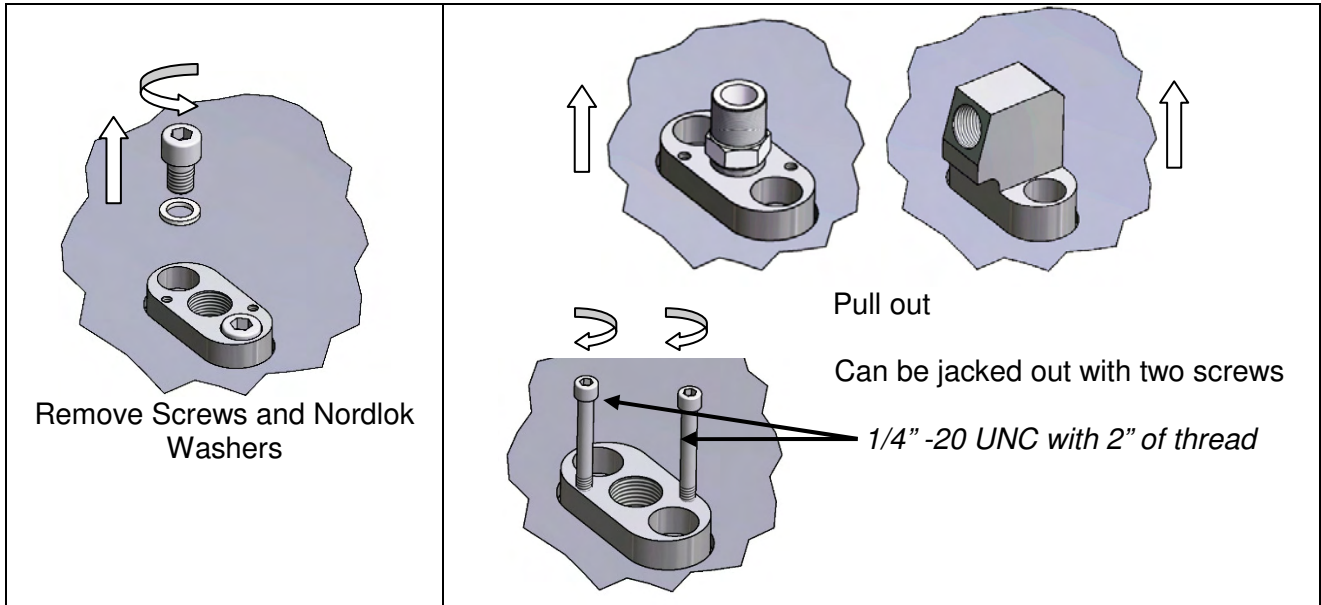
Tool Trap Operation – Loading Heads



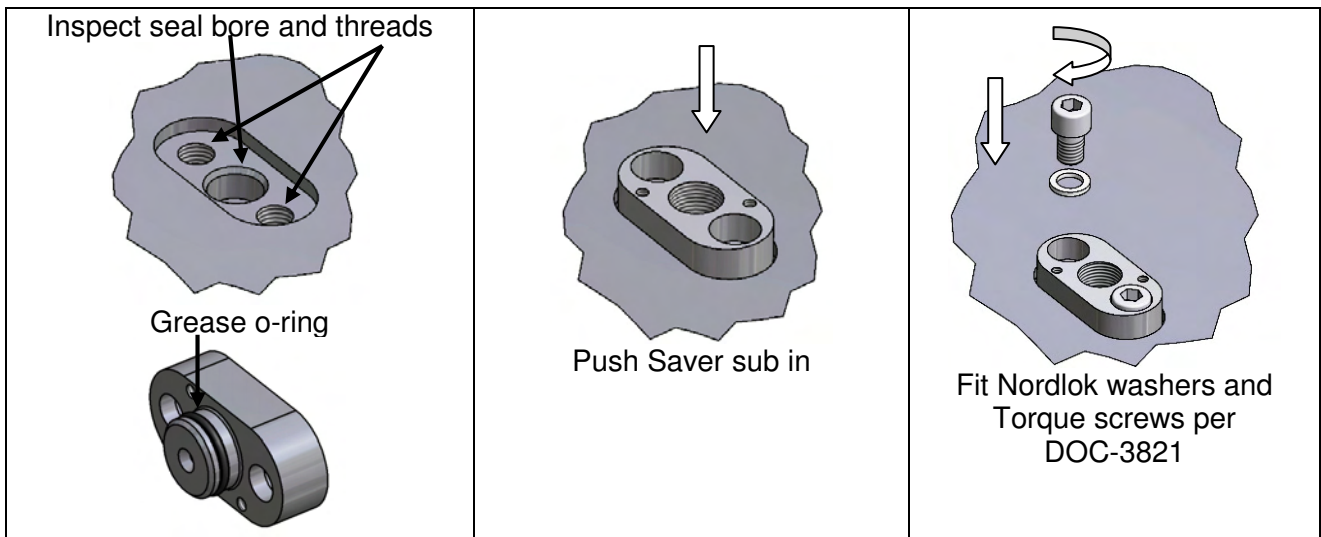
Tool Trap Operation – Tool Passing



Saver Sub Removal

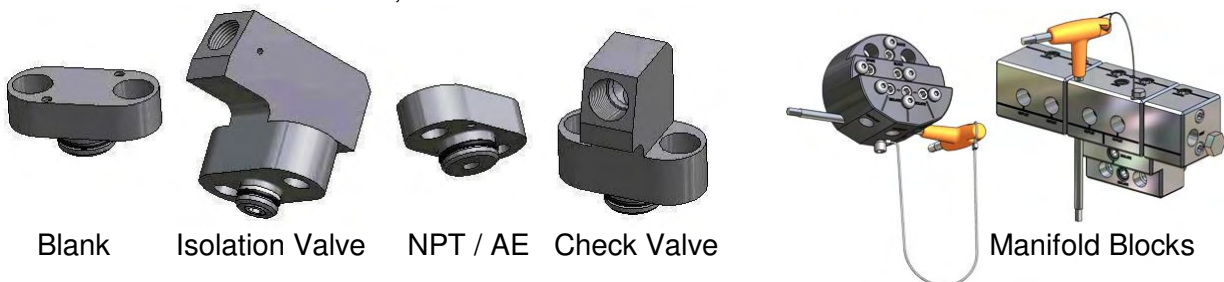


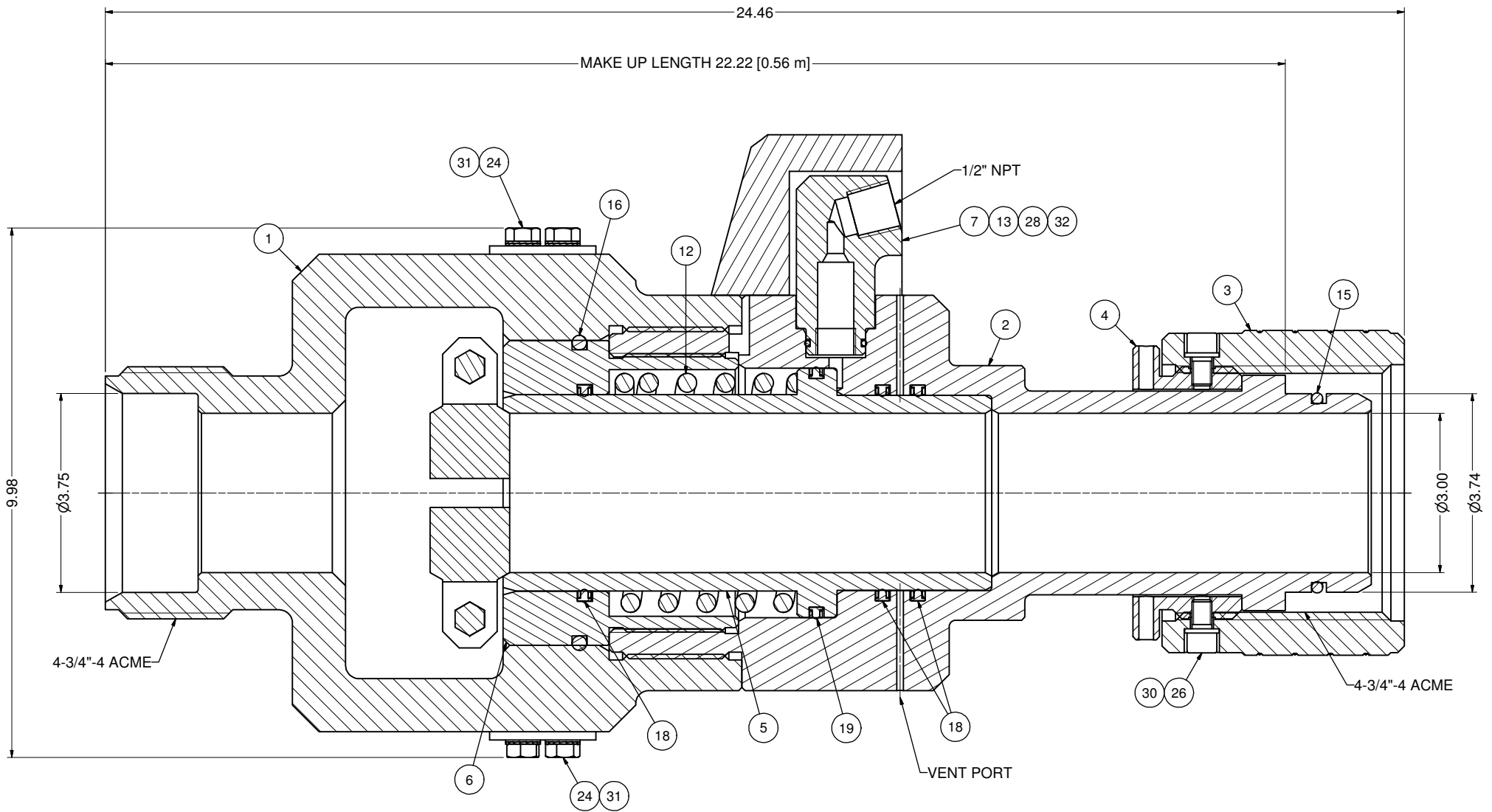
Saver Sub Refitting



Alternative Saver Subs


Other saver subs are available, contact Phuel Oil Tools for details.

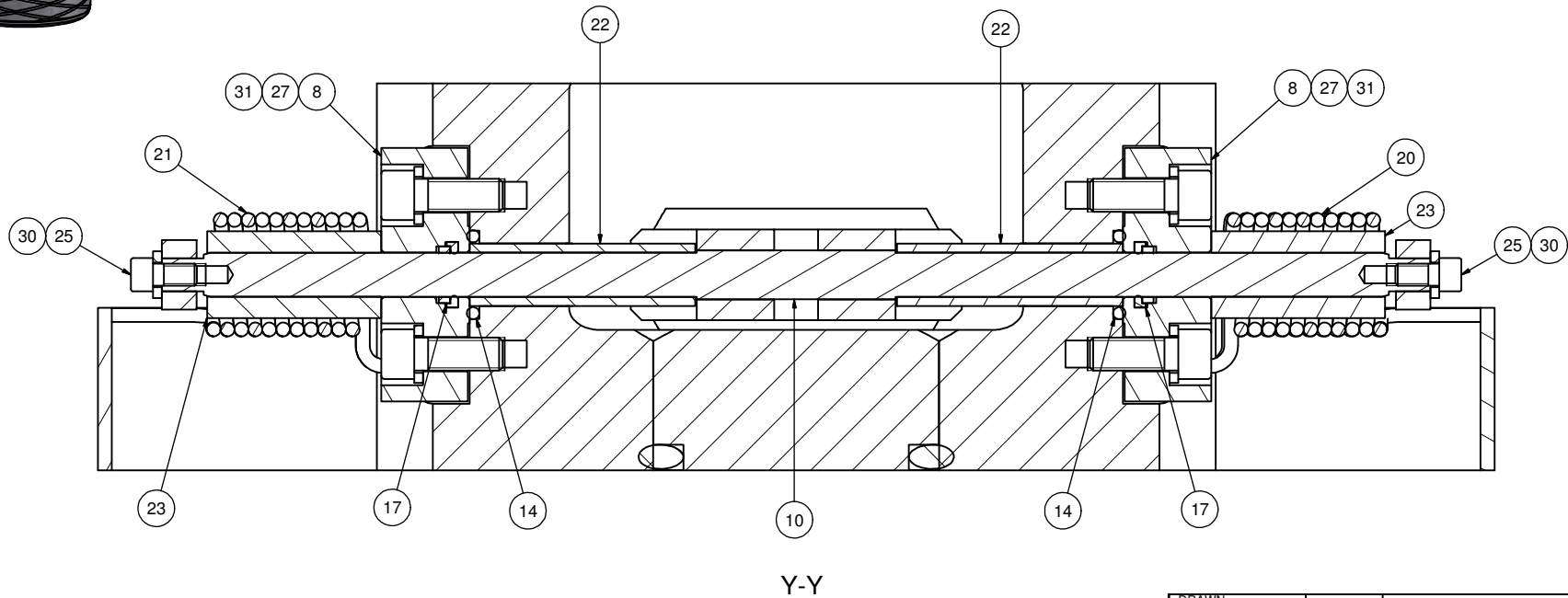
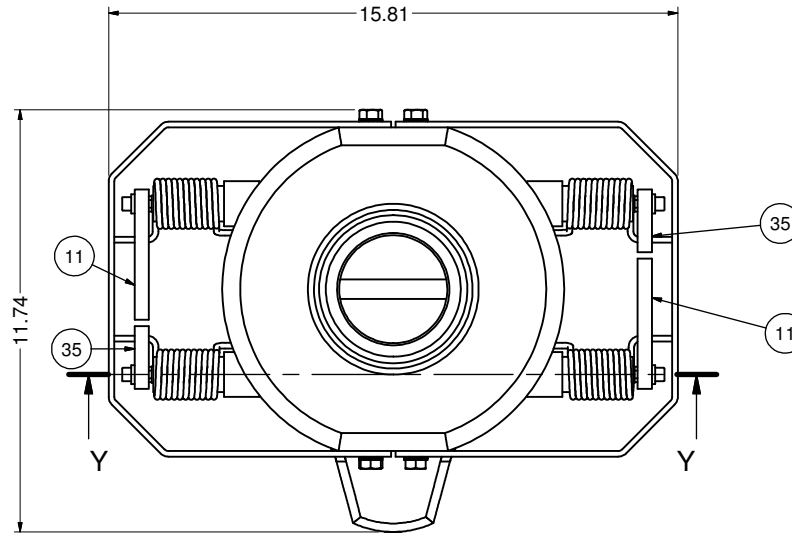
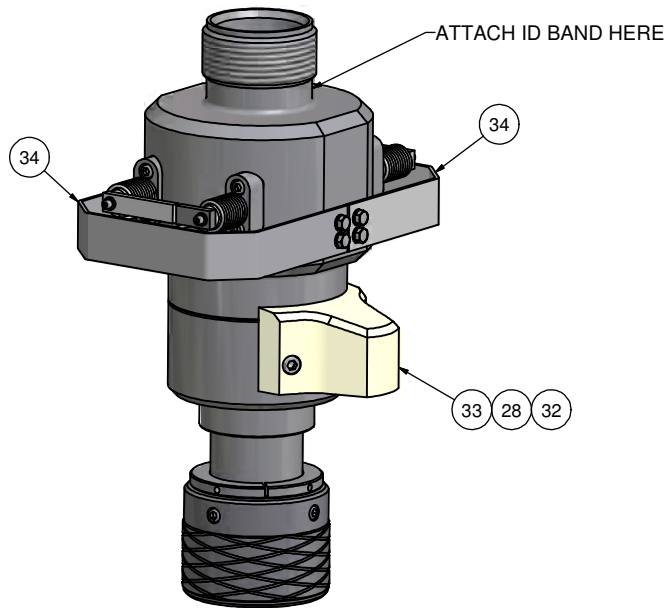




NOTE:
 WEIGHT: 197lbs / 89 Kgs
 10,000 PSI MAXIMUM WORKING PRESSURE
 15,000 PSI MAXIMUM TEST PRESSURE
 FIT THREAD PROTECTORS (NOT SHOWN)

OPS-4944 REV A

CRITICAL COMPONENT?	Y					DRAWN I. McCracken	17/01/2013	Phuel Oil Tools Tel 0785 992 0170 
MINIMUM YIELD STRENGTH (KSI)	N/A					CHECKED A. Green	02/05/2013	
MATERIAL CERT W/ IMPACTS?	N							TITLE TOOL TRAP 3" ID 4-3/4 QU 4-3/4-4 ACME
NDT PER API 6A (PSL-3)?	N							
SURFACE COATING							N.T.S	PRODUCT NO DOC NO MATERIAL REV 168 4944 SEE PO A
SELECT TO SUIT MATERIAL TYPE								
CARBON STEEL	N/A					UNLESS STATED OTHERWISE: X.X ± 0.062 X.XX ± 0.030 X.XXX ± 0.010 ANGLES ± 0° 30' ALL DIAS CONCENTRIC TO 0.010 T.I.R SURFACE FINISH 250 RMa DIMENSIONS IN INCHES		STATUS Released SHEET 1 OF 2
STAINLESS STEEL	N/A							
		REV	DATE	DESCRIPTION	BY	REVISION HISTORY		



OPS-4944 REV A

DRAWN I.McCRACKEN	17/01/2013	© Phuel Oil Tools Tel 0785 992 0170	
CHECKED A.GREEN	02/05/2013		
UNLESS STATED OTHERWISE: X.X ± 0.062 X.XX ± 0.030 X.XXX ± 0.010 ANGLES ± 0° 30' ALL DIAS CONCENTRIC TO 0.010 T.I.R SURFACE FINISH 250 RMa IF IN DOUBT - ASK!		TITLE TOOL TRAP 3" ID 4-3/4 QU 4-3/4-4 ACME	
STATUS Released		PRODUCT NO 168 4944	MATERIAL SEE PO
SHEET 2		REV A OF 2	



User Manual - Bill of Material and Spares

Bill of Material – 168-4944-HV0

Item	Part Number	Description	Qty
1	168-5357-480	4-3/4" TOOLTRAP TOP SUB	1
2	169-4393-480	4-3/4"-4 BOTTOM SUB V2	1
3	300-5411-480	LW SPLIT COLLAR 4-3/4-4	1
4	169-4217-480	SPLIT RING 4-3/4-4 10K	1
5	169-4394-480	PISTON V2	1
6	168-5358-480	3" ID FLAPPER SUPPORT	1
7	900-3019-480	CHECK HOUSING	1
8	168-5361-480	ROTATION ROD HOUSING	4
9	168-5359-50D	3" FLAPPER	2
10	168-5360-316	3" ROTATION ROD	2
11	168-5436-STL	FLAT BAR INDICATOR	2
12	169-2048-STL	COMPRESSION SPRING	1
13	801-0119-V90	O-Ring - B.S Size 119	1
14	801-0210-V90	O-Ring - B.S Size 210	4
15	801-0340-V90	O-Ring - B.S Size 340	1
16	801-0356-V90	O-Ring - B.S Size 356	1
17	802-5473-H80	ROD P-SEAL 0.500	4
18	802-2101-H80	ROD T-SEAL 3.700	3
19	802-2148-H80	PISTON T-SEAL 4.700	1
20	168-3770-316	TORSION SPRING (RIGHT SIDE)	2
21	168-3854-316	TORSION SPRING (LEFT SIDE)	2
22	168-5472-N66	18mm OD x 12.8mm ID x 65mm Long Spacer	4
23	168-5471-N66	25mm OD x 12.8mm ID x 50mm Long Spacer	4
24	HHC-0545-304	Hex head Screw 3/8-16 UNC 0.875 in	8
25	SHC-0503-304	Soc Hd Cap Size 1/4 Length 0.5 in	4
26	SHC-0543-3A4	Soc Hd Cap Size 3/8 Length 0.625 in	4
27	SHC-0546-3A4	Soc Hd Cap Size 3/8 Length 1.00 in	8
28	SHC-0583-3A4	Soc Hd Cap 1/2 UNC Length 3/4 in	4
30	WNL-5492-316	NORDLOCK WASHER (NL 1/4" SP SS)	4
31	WNL-0540-316	Nord Lock Washer Size 3/8	20
32	WNL-0580-316	WASHER NORDLOCK (M12)	4
33	169-3173-N66	TOOLCATCHER PROTECTOR (5-3/4 QU)	1
34	168-5362-STL	3" TOOLTRAP FRAME	1
35	168-5491-STL	FLAT BAR SPRING SUPPORT	2
98	910-4088-N66	4.750-4 ACME MALE THREAD PROTECTOR	1
99	910-4089-N66	4.750-4 ACME FEMALE THREAD PROTECTOR	1



User Manual - Bill of Material and Spares

Spares

Use only spares supplied or approved by Phuel Oil Tools Ltd. O-Rings conform to industry standards and may be substituted with those from other suppliers — **at the sole risk of the user.**

Individual items may be ordered as required using the part number specified

Elastomeric spares are supplied in Viton and HNBR material as standard. Many other materials are available please specify when ordering.

It is recommended that sufficient quantities of the following spares be maintained to ensure that the equipment is always available when required.

Redress kit: RDK-4944-HV0

Item	Part Number	Description	Qty
13	801-0119-V90	O-Ring - B.S Size 119	1
14	801-0210-V90	O-Ring - B.S Size 210	4
15	801-0340-V90	O-Ring - B.S Size 340	1
16	801-0356-V90	O-Ring - B.S Size 356	1
17	802-5473-H80	ROD P-SEAL 0.500	4
18	802-2101-H80	ROD T-SEAL 3.700	3
19	802-2148-H80	PISTON T-SEAL 4.700	1