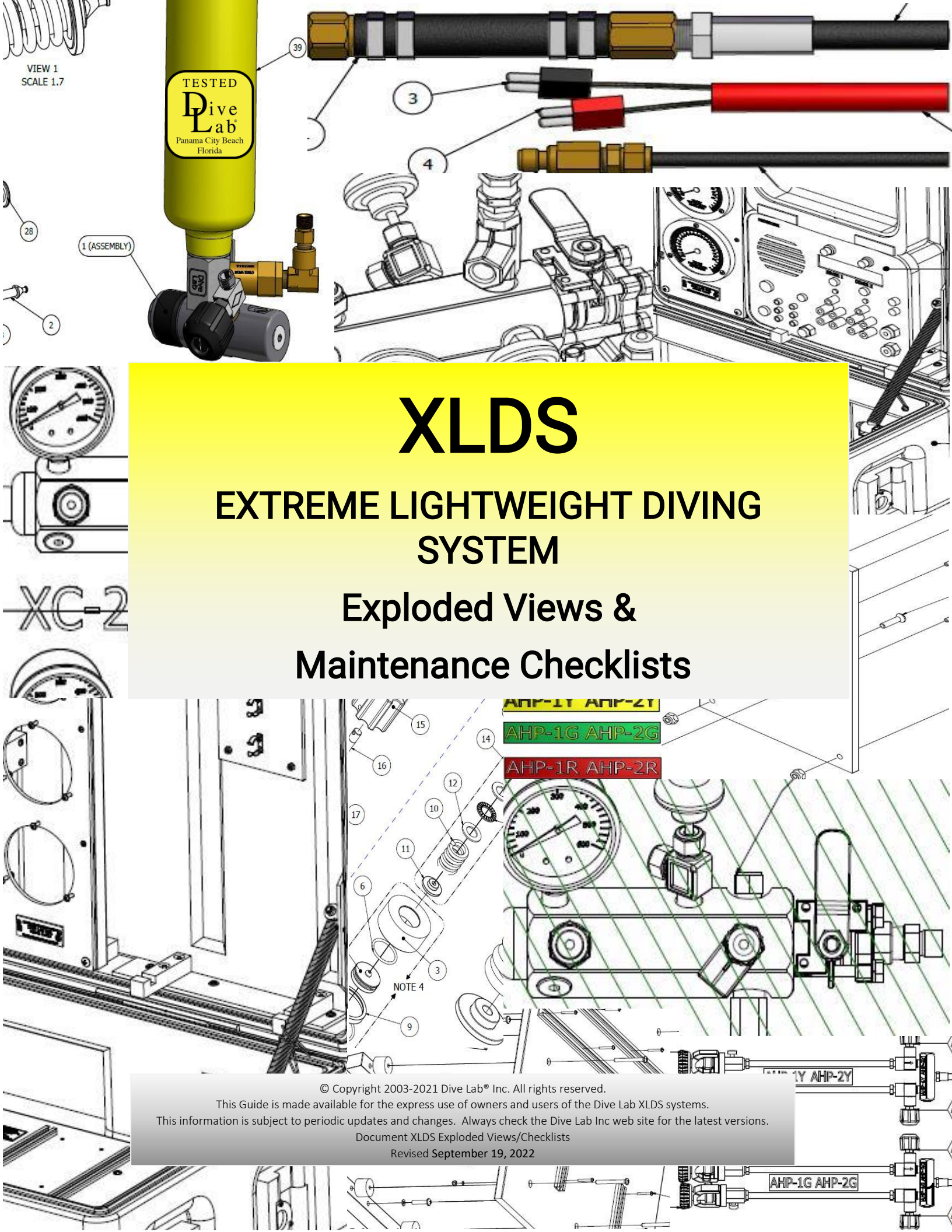




VIEW 1
SCALE 1.7

TESTED
Dive Lab
Panama City Beach
Florida

1 (ASSEMBLY)

XLDS

EXTREME LIGHTWEIGHT DIVING SYSTEM

Exploded Views & Maintenance Checklists

AHP-1Y AHP-2Y
AHP-1G AHP-2G
AHP-1R AHP-2R

NOTE 4

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Document XLDS Exploded Views/Checklists
Revised September 19, 2022

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7014 - Low Pressure Assembly**	**
7018 - Relief, Circle**	**
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**May not be included in manual depending on system options

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Revised May 12, 2021

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Definitions of Signal Words Used in this User's Guide

DANGER

This word indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury.

WARNING

This word indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.

CAUTION

This word indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This word indicates a special attention or required action for basic operation.

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Document XLDS Guide

Revised July 17, 2019

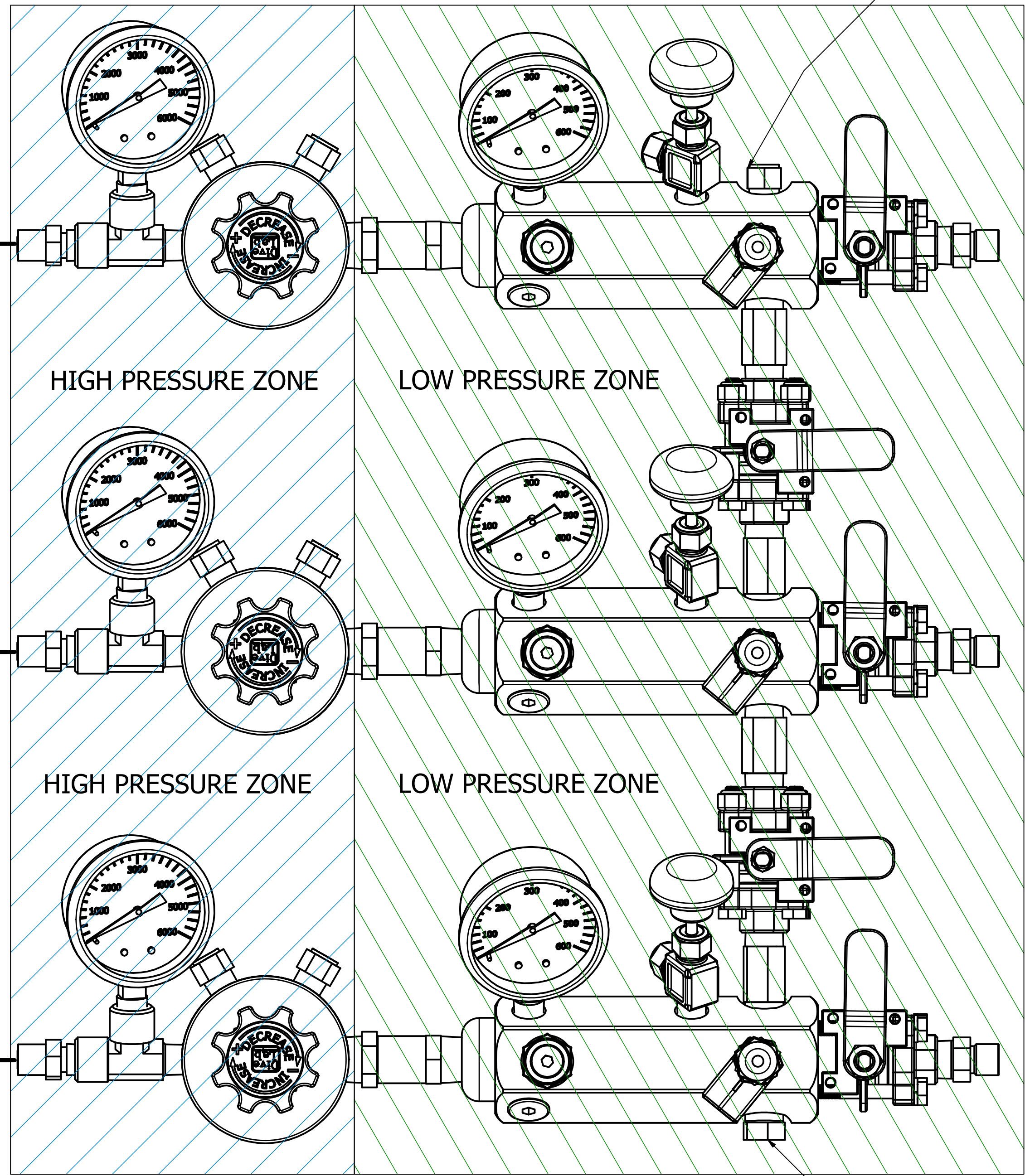
NOTES:
1. ALL GAS SYSTEM COMPONENTS ARE COMMON WITH THE EXCEPTION OF ITEM 32 (3/8 MNPT PLUG). ITEM 32 IS USED ON 1XL4-R AND 1XL4-Y MANIFOLD.

32 NOTE:1

COMMON SUB COMPONENTS — YELLOW

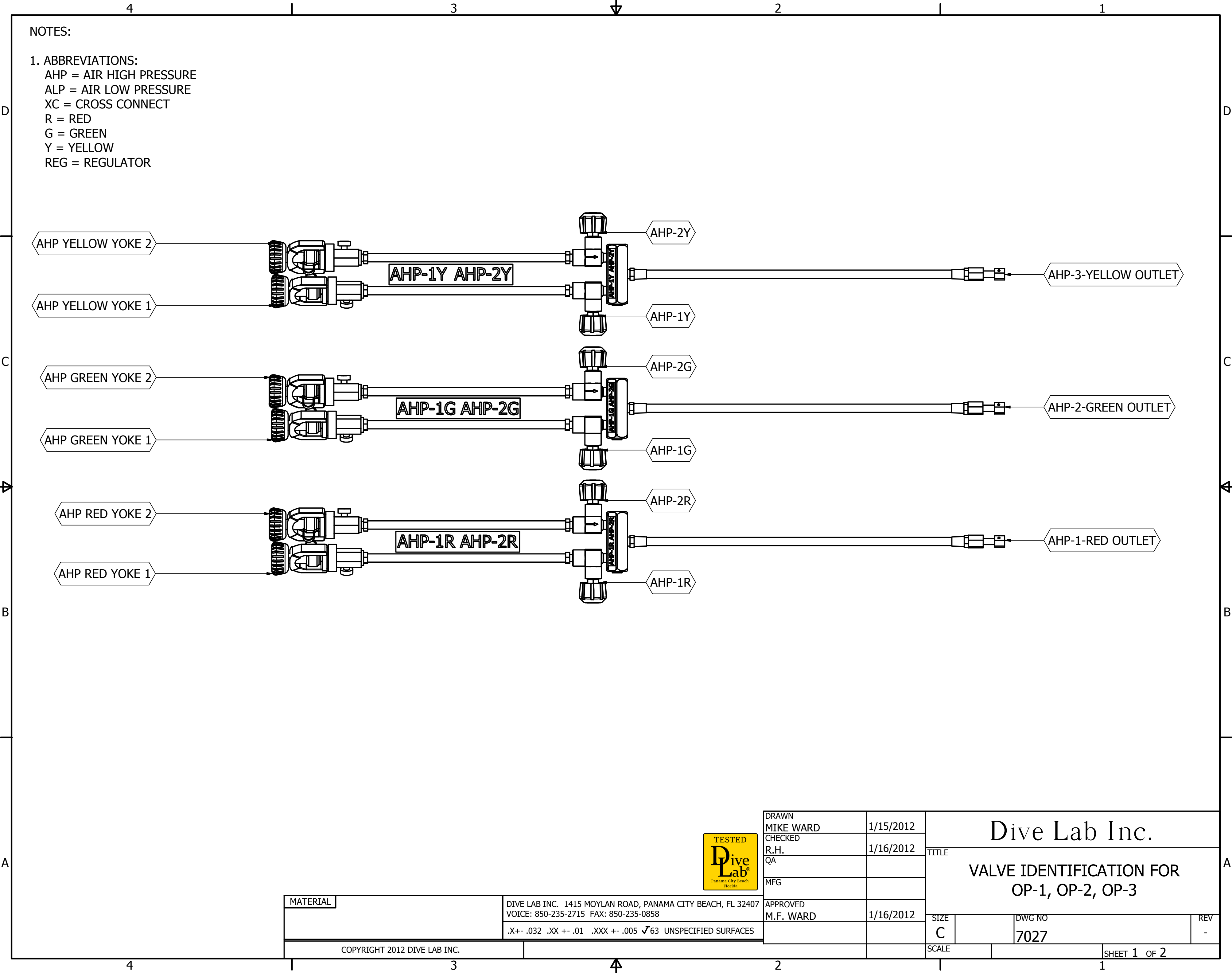
GREEN

RED



32 NOTE:1

	SIZE	DRAWING NO.	TITLE	REV
	C	7057	GAS SYSTEM PRESSURE ZONES	-
	SHEET 1 OF 1			



NOTES:

1. ABBREVIATIONS:
AHP = AIR HIGH PRESSURE
ALP = AIR LOW PRESSURE
XC = CROSS CONNECT
R = RED
G = GREEN
Y = YELLOW
REG = REGULATOR

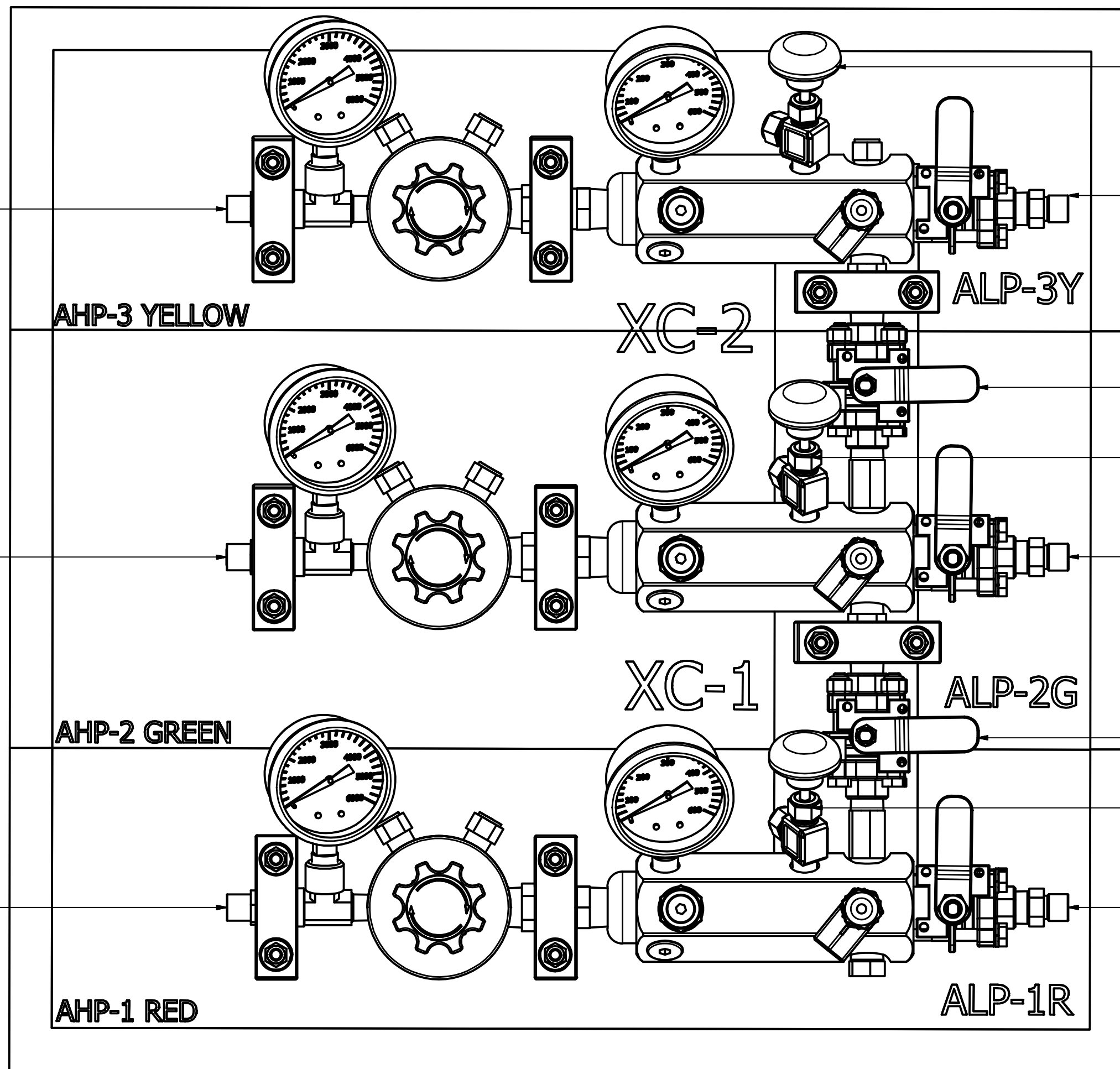


MATERIAL		DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858		APPROVED M.F. WARD		1/16/2012		SIZE			DWG NO			REV	
								C		7027			-		

NOTES:

1. ABBREVIATIONS:

AHP = AIR HIGH PRESSURE
ALP = AIR LOW PRESSURE
XC = CROSS CONNECT
R = RED
G = GREEN
Y = YELLOW
REG = REGULATOR



AIR HIGH PRESSURE YELLOW (HP REG 3)

AHP-3 YELLOW

XC-2

ALP-3Y

YELLOW ALP-6 (PNEUMO)

AIR LOW PRESSURE-3 YELLOW (ALP-3Y)

AIR HIGH PRESUURE GREEN (HP REG 2)

AHP-2 GREEN

XC-1

ALP-2G

CROSS CONNECT-2 (XC-2)

GREEN ALP-5 (PNEUMO)

AIR LOW PRESSURE-2 GREEN (ALP-2G)

AIR HIGH PRESSURE RED (HP REG 1)

AHP-1 RED

ALP-1R

CROSS CONNECT-1 (XC-1)

RED ALP-4 (PNEUMO)

AIR LOW PRESSURE-1 RED (ALP-1R)



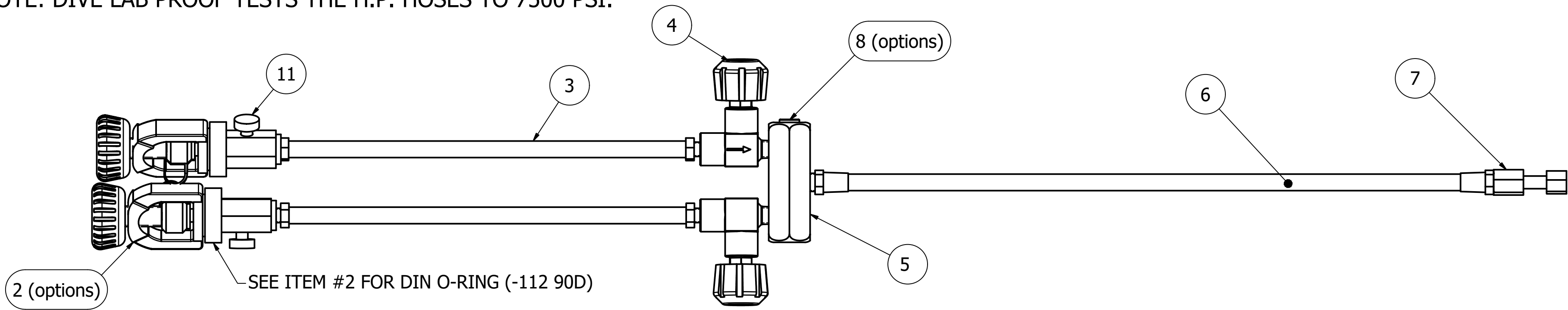
MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
	.X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES

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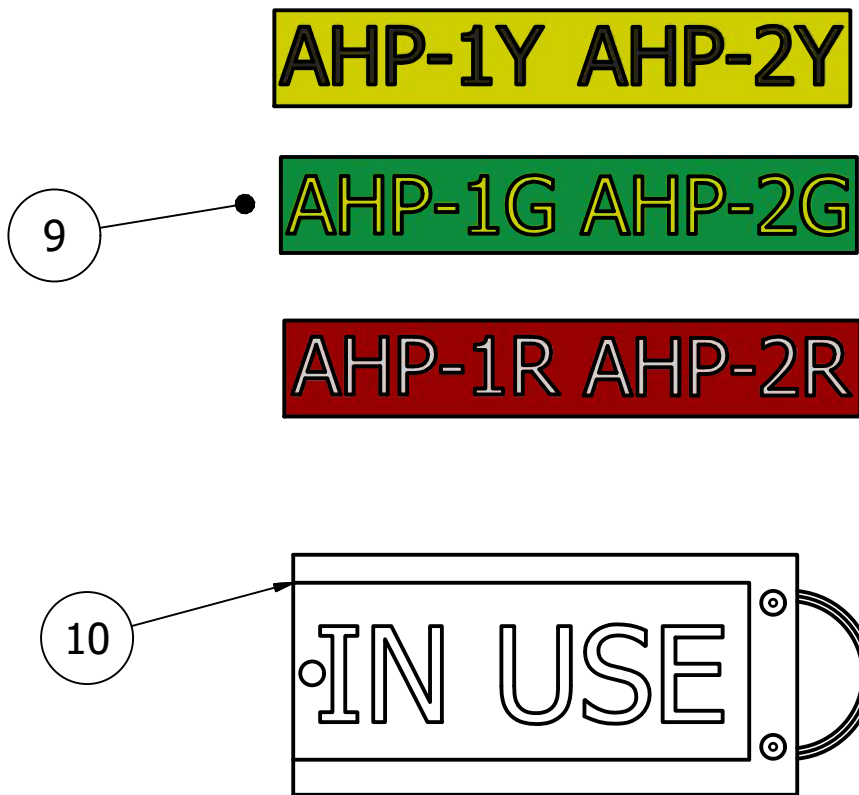
DRAWN MIKE WARD	1/15/2012
CHECKED R.H. QA	1/16/2012
MFG	
APPROVED M.F. WARD	1/16/2012

Dive Lab Inc.			
TITLE			
VALVE IDENTIFICATION FOR OP-1, OP-2, OP-3			
SIZE		DWG NO	REV
C		7027	-
SCALE		SHEET 2 OF 2	

NOTE: DIVE LAB PROOF TESTS THE H.P. HOSES TO 7500 PSI.



-	3XL29E 3XL29F	A YOKE & DIN YOKE BLEED KNOB (FOR XS SCUBA YOKES) A YOKE BLEED KNOB (FOR SHERWOOD A YOKES)	11
1	3XL43	IN USE TAG COMPLETE	
-	3XL42	IN USE TAG PLATE (ABS PLASTIC)	10
-	3XL41	DECAL, IN USE	
1	3XL40R 3XL40G 3XL40Y	DECAL, AHP-1 RED DECAL,AHP-2 GREEN DECAL,AHP-3 YELLOW	9
1 1	3XL15 3XL15-A	PLUG HIGH PRESSURE 7/16-20 UNF -012 O-RING 90 DUROMETER (PN# 3XL15-A)	8
1	3XL100	FITTING, .25 MNPT - 9/16-18 UNF VCO (NOTE: PART OF THE HOSE WITH 3XL72HP, ITEM # 6)	7
1	3XL72HP	HIGH PRESSURE WHIP, THERMOPLASTIC, PIRANHAFLEX PF321TC, 72" 1/4 MNPT x VCO 9/16-18 UNF	6
1	3XL25	HIGH PRESSURE JUNCTION BLOCK, 1/4" FNPT, 7/16-20 UNF ST O-RING PORT ON SIDE	5
2	3XL89-1 (THERMO) 3XL89 (SHERWOOD)	THERMO VALVE, 1/4 MNPT, (REPAIR KIT 3XL89-1-RK) (OBSOLETE) SHERWOOD VALVE, (REPAIR KIT 3XL89-RK)	4
2	3XL24HP	HIGH PRESSURE WHIP, THERMOPLASTIC, PIRANHAFLEX PF321TC, 24", 1/4 MNPT	3
2	3XL29D	DIN-YOKE COMBO, MAX PRESSURE 4350 PSIG (STANDARD) - DIN-YOKE O-RING -112 90D (PN# 3XL29CR)	2
	3XL29 3XL90	A YOKE 3500 PSIG (OPTIONAL) DUST CAP (FITS DIN & A YOKE)	
-	1XL00 R,G,Y	HIGH PRESSURE, SINGLE LEG ASSEMBLY R,G,Y	1
QTY.	DIVE LAB PART NO.	DESCRIPTION	ITEM NO
HIGH PRESSURE ASSEMBLY (SINGLE LEG R,G,Y) 1XL00			

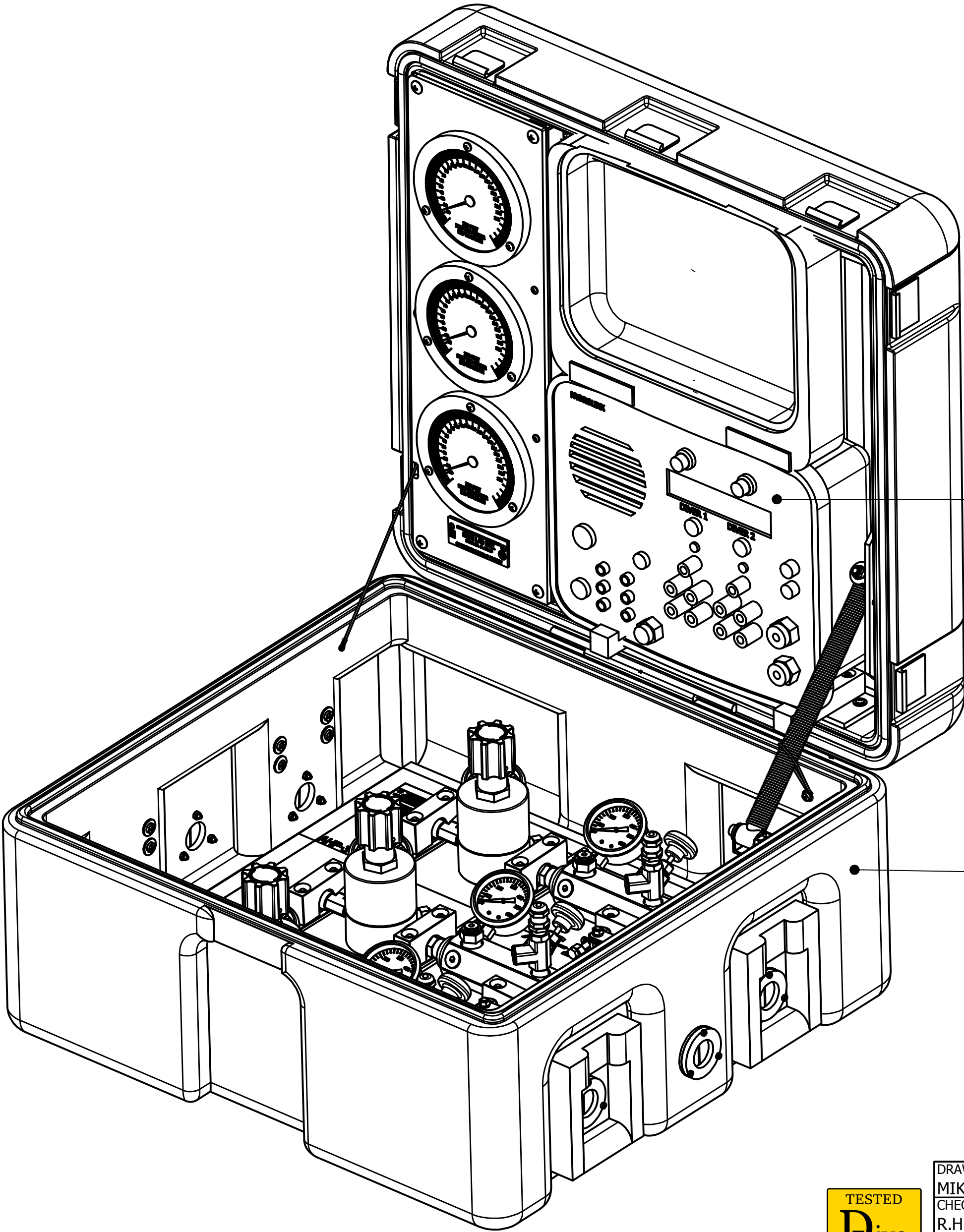


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DRAWN M.S. WARD	6/14/2007	Dive Lab Inc.		
CHECKED R.H. QA	1/12/2012			
MFG		HIGH PRESSURE ASSEMBLY		
APPROVED M.F. WARD	1/12/2012	SIZE C	DWG NO 7009	REV -
		SCALE	SHEET 1 OF 1	

NOTES:
1. PRE ASSEMBLY REQ. IAW DIVE LAB QA MANUAL, DOCUMENT
(XLDSPROOF22111 1B MW), MANUFACTURING REQUIREMENTS DWG# 7737

1XL31A	HYDROLINX COMM BOX (3DIVER)	2
1XL00	3 DIVER CONSOLE	1
DIVE LAB PART	DESCRIPTION	ITEM
X LDS RDC-3 CONSOLE		



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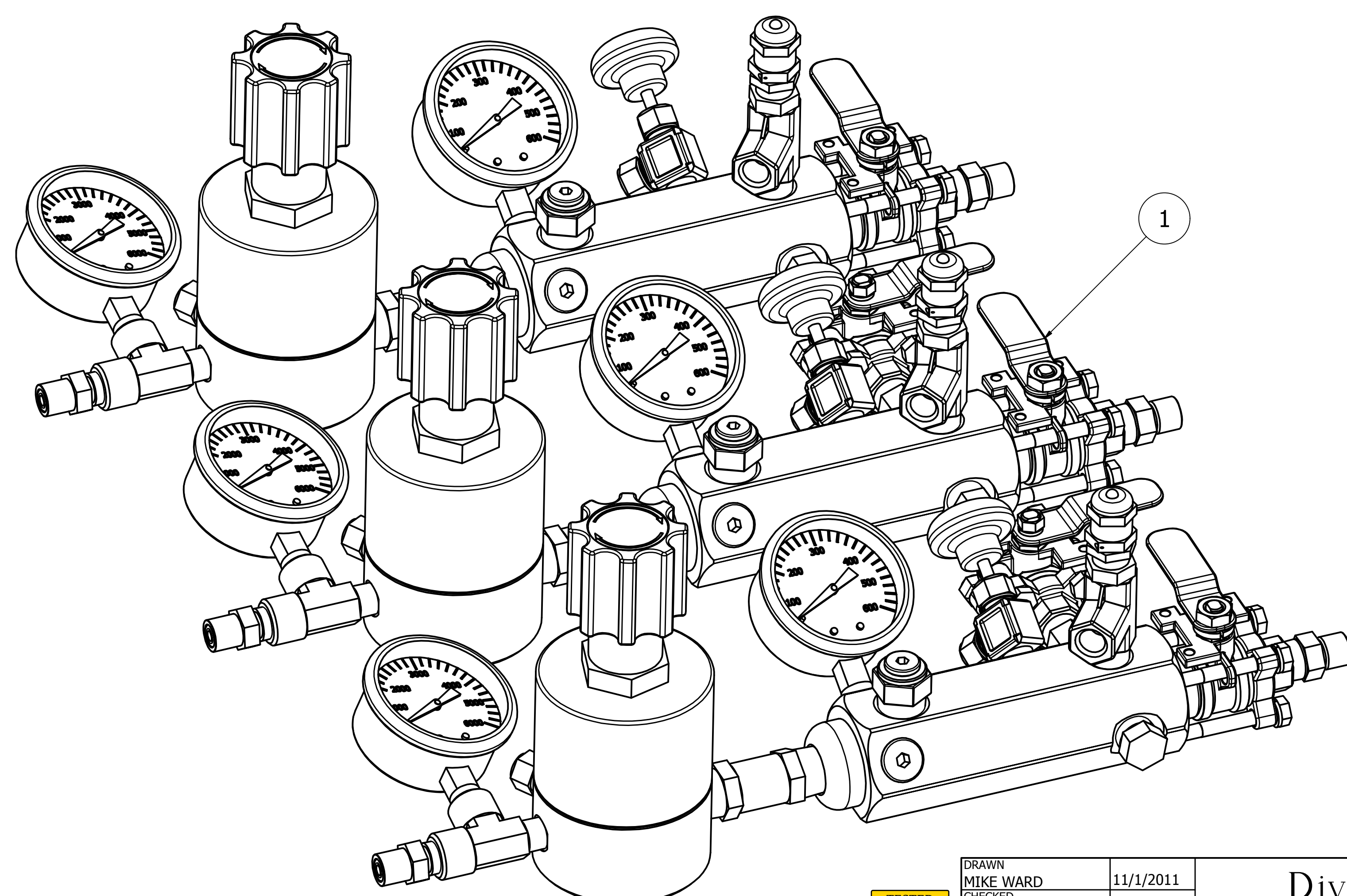
DRAWN MIKE WARD	11/10/2011
CHECKED R.H. QA	1/27/2012
MFG	
APPROVED M.F. WARD	1/27/2012

Dive Lab Inc.			
TITLE CONSOLE XLDS-RDC-3D			
SIZE C	DWG NO 7008		REV -
SCALE		SHEET 1 OF 1	

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NOTES:
1. PRE ASSEMBLY REQ. IAW DIVE LAB QA MANUAL, DOCUMENT
(XLDSPROOF22111 1B MW), MANUFACTURING REQUIREMENTS DWG# 7737

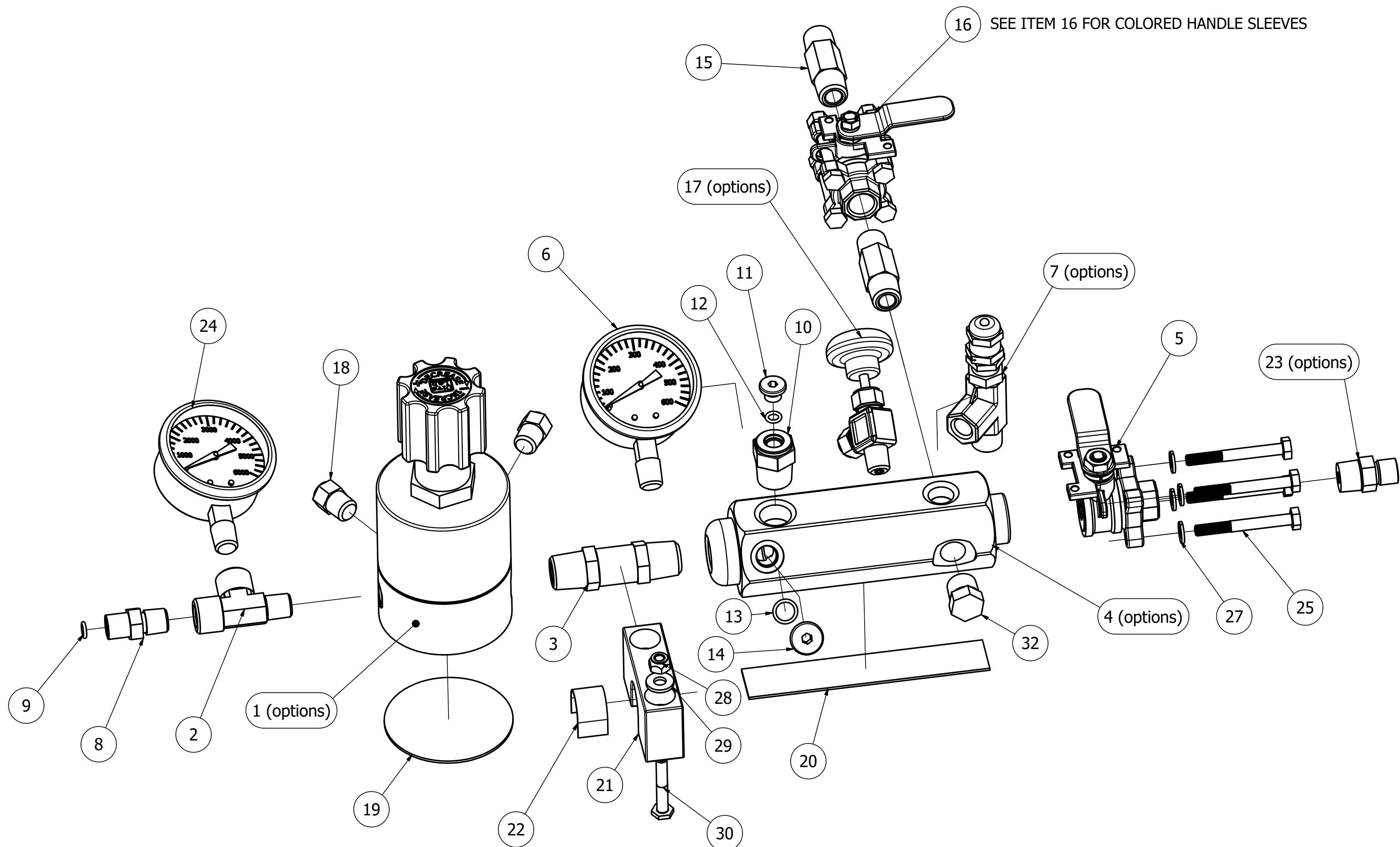
1XL00A	3 DIVER GAS SYSTEM ASSEMBLY	1
DIVE LAB PART NO.	DESCRIPTION	ITEM
3 DIVER GAS SYSTEM ASSEMBLY		



MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858 .X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES
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DRAWN MIKE WARD	11/1/2011	Dive Lab Inc.		
CHECKED R.H. QA	1/12/2012			
MFG		3 DIVER GAS SYSTEM ASSEMBLY		
APPROVED M.F. WARD	1/12/2012	SIZE C	DWG NO 7011	REV -
		SCALE	SHEET 1 OF 1	

NOTES:
1. RED, GREEN AND YELLOW GAS SYSTEM LEGS
ARE COMMON WITH THE EXCEPTION OF ITEM 32.
ITEM 32 IS USED ON RED AND YELLOW MANIFOLD ONLY.



REGULATOR SETTINGS
FOR XLDS SET TO 350-375 PSIG
FOR CONVENTIONAL SET ACCORDING TO
EQUIPMENT REQUIREMENTS

RELIEF SETTINGS
FOR XLDS SET TO 390-400 PSIG
FOR CONVENTIONAL SET TO 290-300 PSIG



DRAWN	MIKE WARD	11/2/2011
CHECKED	R.H. QA	1/12/2012
MFG		
APPROVED	M.F. WARD	1/12/2012

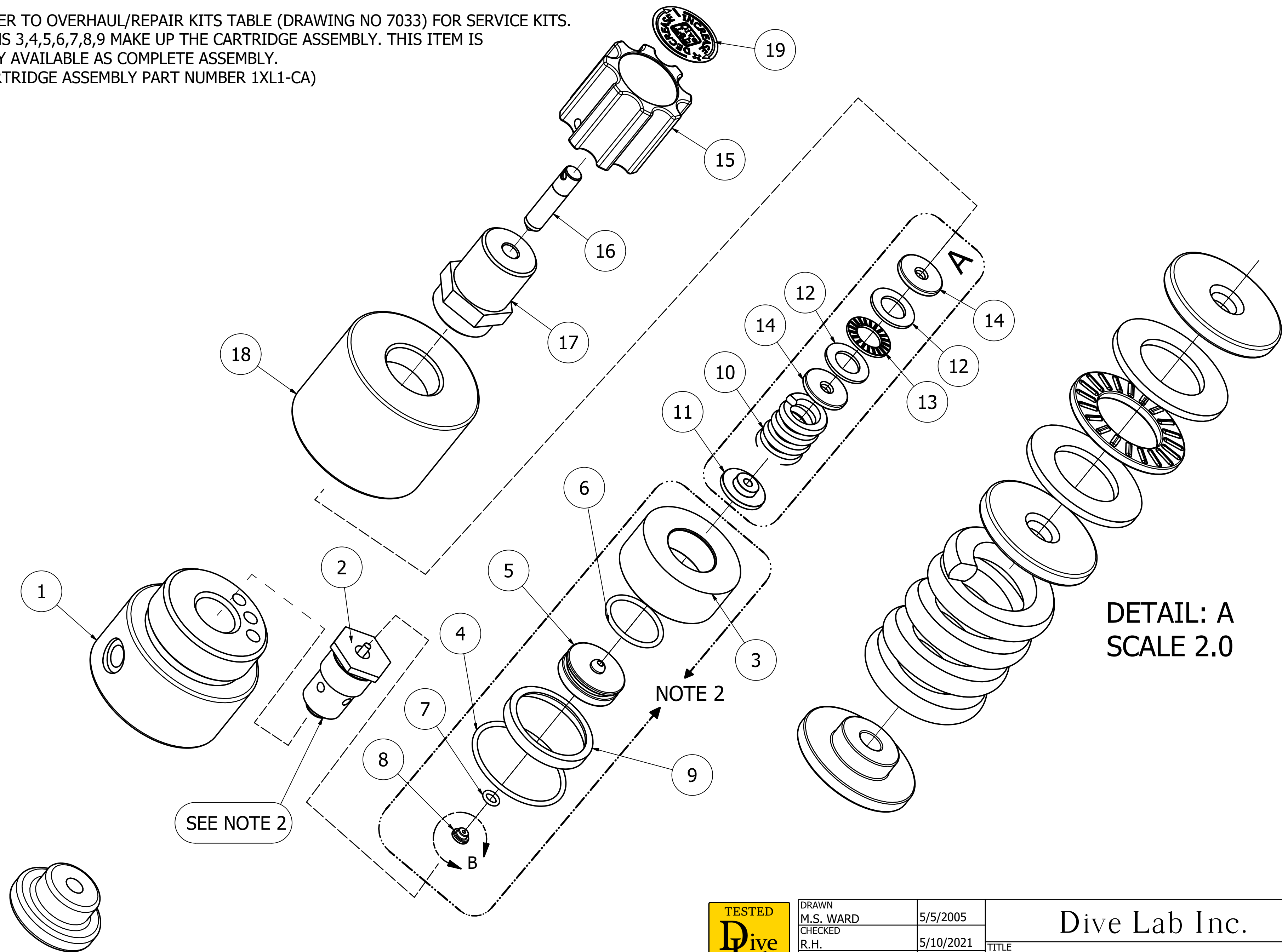
Dive Lab Inc.			
GAS SYSTEM LEG ASSEMBLY			
SIZE	C	DWG NO	7012
SCALE		REV	5/5/2021
SHEET 1 OF 2			

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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				</											

NOTES:

1. REFER TO OVERHAUL/REPAIR KITS TABLE (DRAWING NO 7033) FOR SERVICE KITS.
2. ITEMS 3,4,5,6,7,8,9 MAKE UP THE CARTRIDGE ASSEMBLY. THIS ITEM IS ONLY AVAILABLE AS COMPLETE ASSEMBLY.
(CARTRIDGE ASSEMBLY PART NUMBER 1XL1-CA)



DETAIL: A
SCALE 2.0

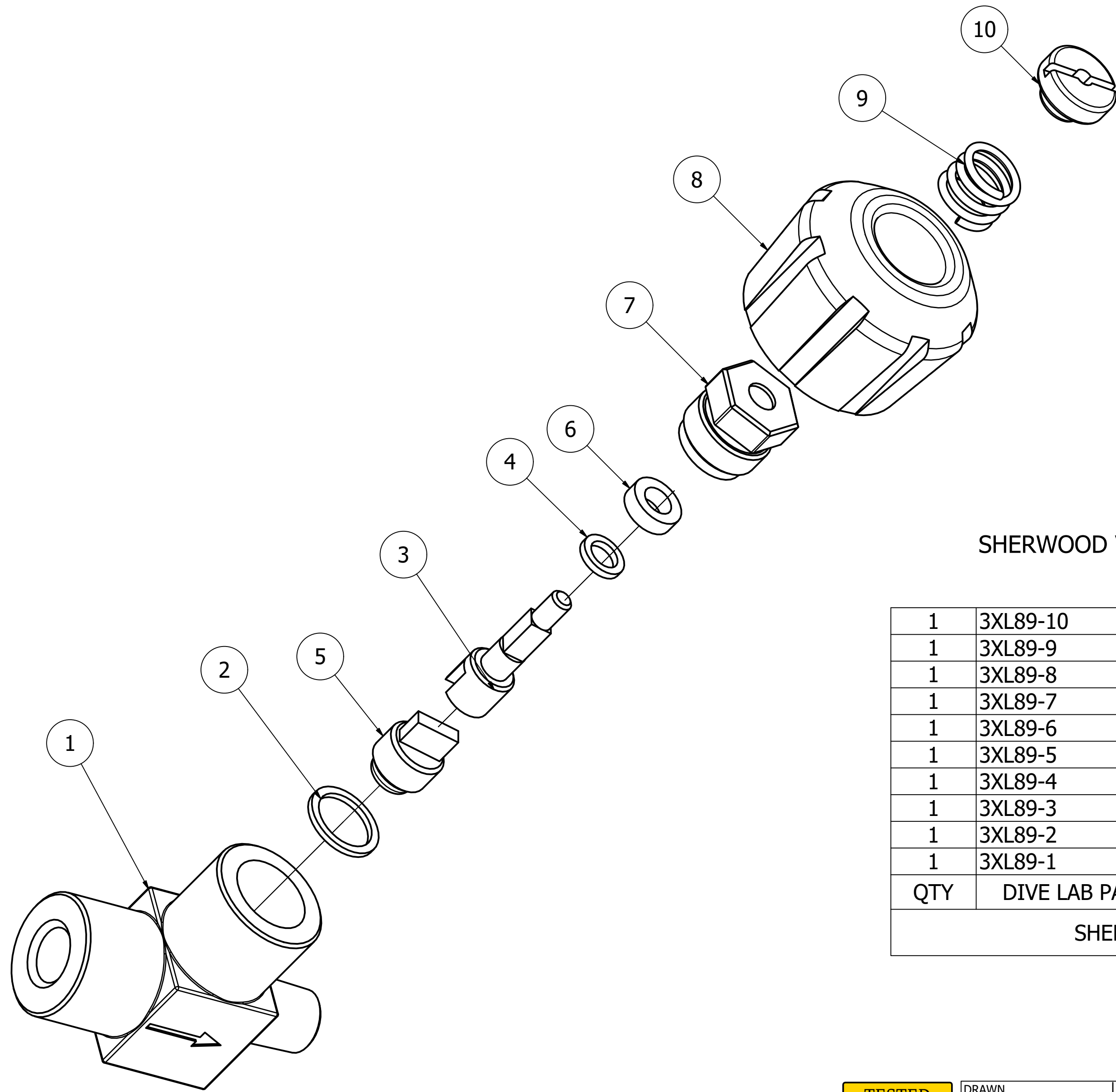
DETAIL B
SCALE 4.1



DRAWN	M.S. WARD	5/5/2005
CHECKED	R.H. QA	5/10/2021
MFG		5/10/2021
APPROVED	M.F. WARD	5/10/2021

Dive Lab Inc.			
REGULATOR 0-400 AQUA ENVIRONMENT			
SIZE	C	DWG NO	7015
SCALE		REV	5/10/2021
SHEET 1		OF 2	

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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SHERWOOD VALVE REBUILD KIT # 3XL89-RK

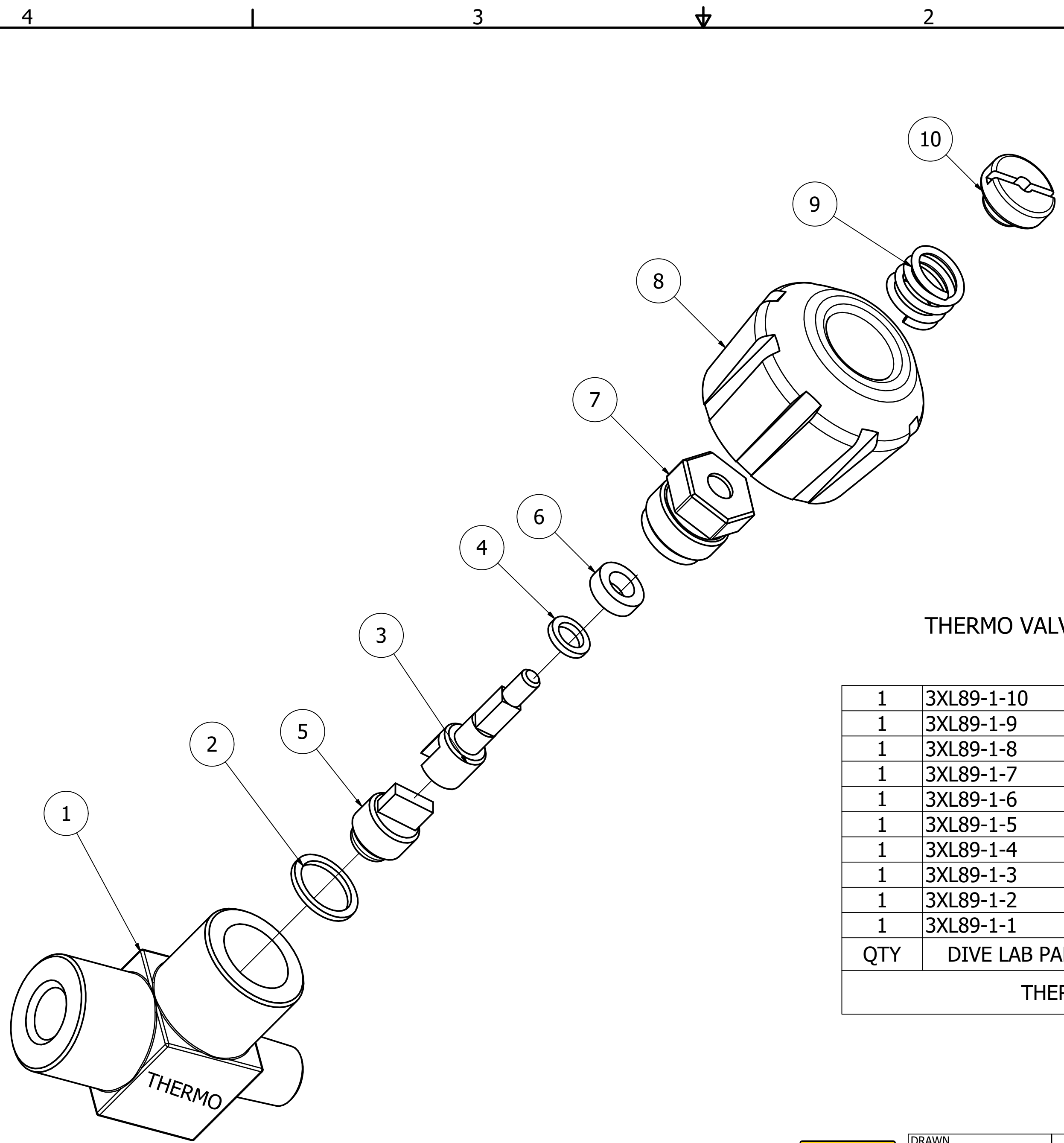
1	3XL89-10	LOCK NUT	10
1	3XL89-9	SPRING	9
1	3XL89-8	KNOB	8
1	3XL89-7	PACKING NUT	7
1	3XL89-6	PACKING	6
1	3XL89-5	SEAT	5
1	3XL89-4	WASHER	4
1	3XL89-3	STEM	3
1	3XL89-2	WASHER, COPPER	2
1	3XL89-1	BODY	1
QTY	DIVE LAB PART NO	DESCRIPTION	ITEM
SHERWOOD HP VALVE 3XL89			



DRAWN M.S. WARD	5/18/2005
CHECKED R.H. QA	1/16/2012
MFG	
APPROVED M.F. WARD	1/16/2012

Dive Lab Inc.			
TITLE SHERWOOD VALVE HIGH PRESSURE			
SIZE C	DWG NO 7010	REV 5/5/2021	
SCALE	SHEET 1 OF 1		

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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THERMO VALVE REBUILD KIT # 3XL89-1-RK

1	3XL89-1-10	LOCK NUT	10
1	3XL89-1-9	SPRING	9
1	3XL89-1-8	KNOB	8
1	3XL89-1-7	PACKING NUT	7
1	3XL89-1-6	PACKING	6
1	3XL89-1-5	SEAT	5
1	3XL89-1-4	O-RING	4
1	3XL89-1-3	STEM	3
1	3XL89-1-2	WASHER, COPPER	2
1	3XL89-1-1	BODY	1
QTY	DIVE LAB PART NO	DESCRIPTION	ITEM
THERMO HP VALVE 3XL89-1			

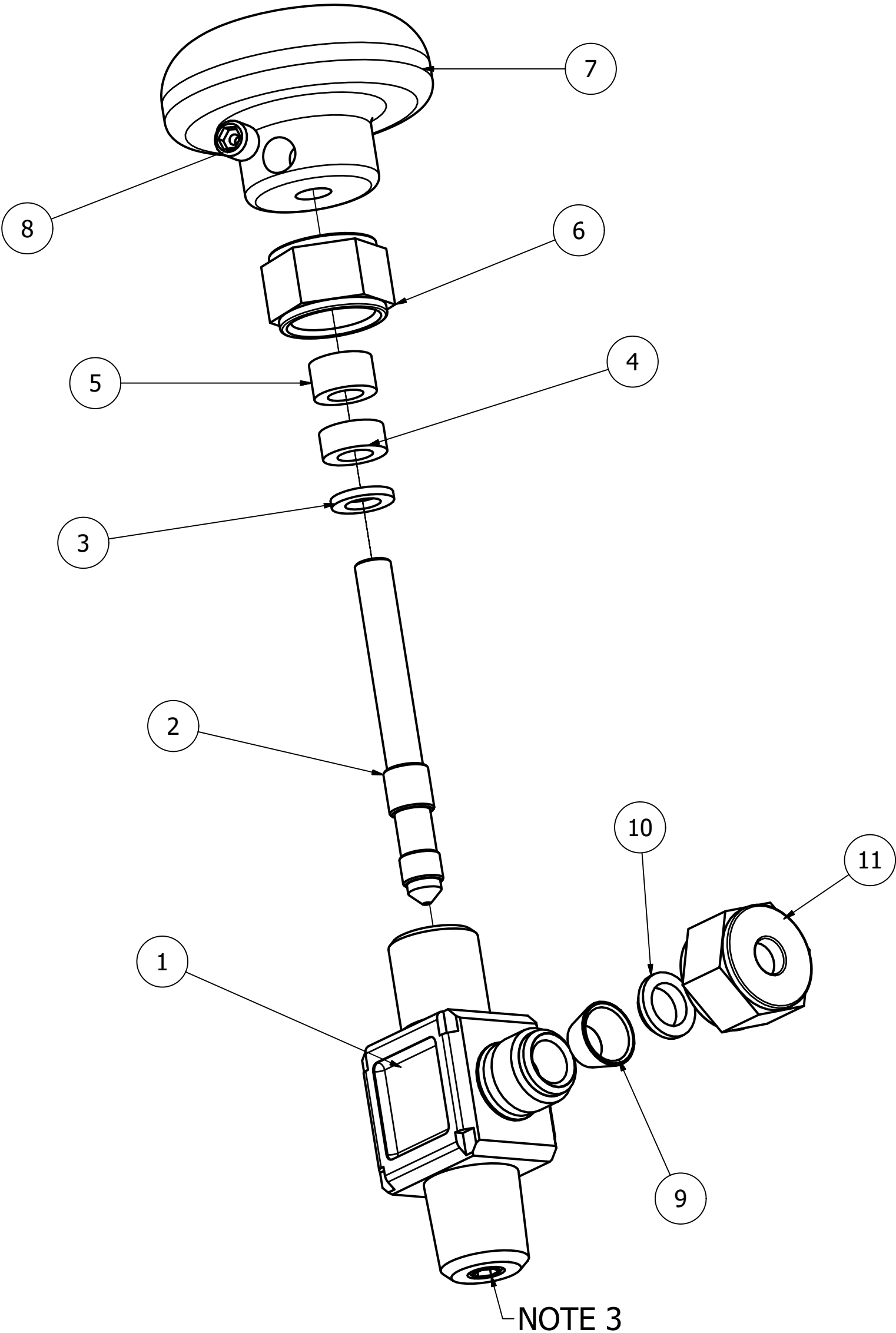


DRAWN	M.S. WARD	5/18/2005
CHECKED	R.H. QA	1/16/2012
MFG		
APPROVED	M.F. WARD	1/16/2012

Dive Lab Inc.			
THERMO VALVE HIGH PRESSURE			
SIZE	C	DWG NO	7010A
SCALE		REV	5-5-2021
SHEET 1		OF 1	

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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1. VALVE BODY, ITEM 1 HAS BEEN MODIFIED FOR A PERMANENT FLOW RESTRICTOR.



REPAIR KIT #1XL6-RK

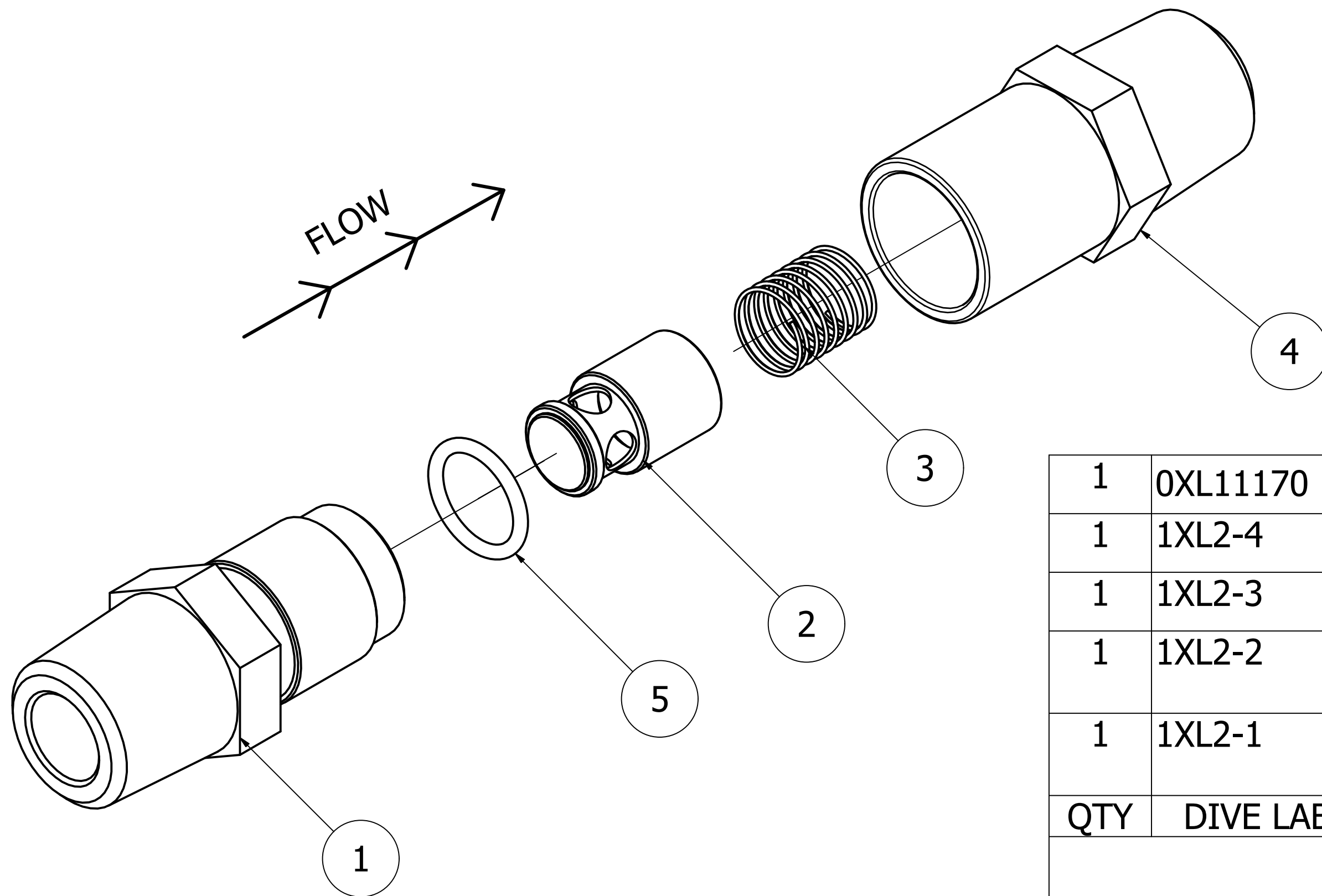
1	1XL6C-11	NUT	11
1	1XLC-10	WASHER, FERRUL	10
1	1XL6-9	FERRUL	9
1	1XL6-8	SET SCREW, KNOB	8
1	1XL6-7	KNOB	7
1	1XL6-6	NUT, STEM	6
1	1XL6-5	SPACER	5
1	1XL6-4R	PACKING	4
1	1XL6-3R	WASHER	3
1	1XL6-2	STEM	2
1	1XL6-1	BODY	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
PNEUMO VALVE STAINLESS SOFT SEAT, 1XL6			



DRAWN MIKE S. WARD	8/22/2005
CHECKED R.H. QA	1/12/2012
MFG	
APPROVED M.F. WARD	1/12/2012

Dive Lab Inc.			
PNEUMO VALVE SOFT SEAT (MODIFIED)			
SIZE C	DWG NO 7019	REV 5/5/2021	
SCALE	SHEET 1 OF 1		

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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1	0XL11170	O-RING -111, 70D	5
1	1XL2-4	BODY	4
1	1XL2-3	SPRING	3
1	1XL2-2	SPRING HOUSING	2
1	1XL2-1	MAIN HOUSING	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
CHECK VALVE 1XL2			

**NOTE. ITEM#3 IS NOT PART OF THE SOFT GOODS SERVICE KIT.
ORDER 1XL2-3RK FOR SPRING**

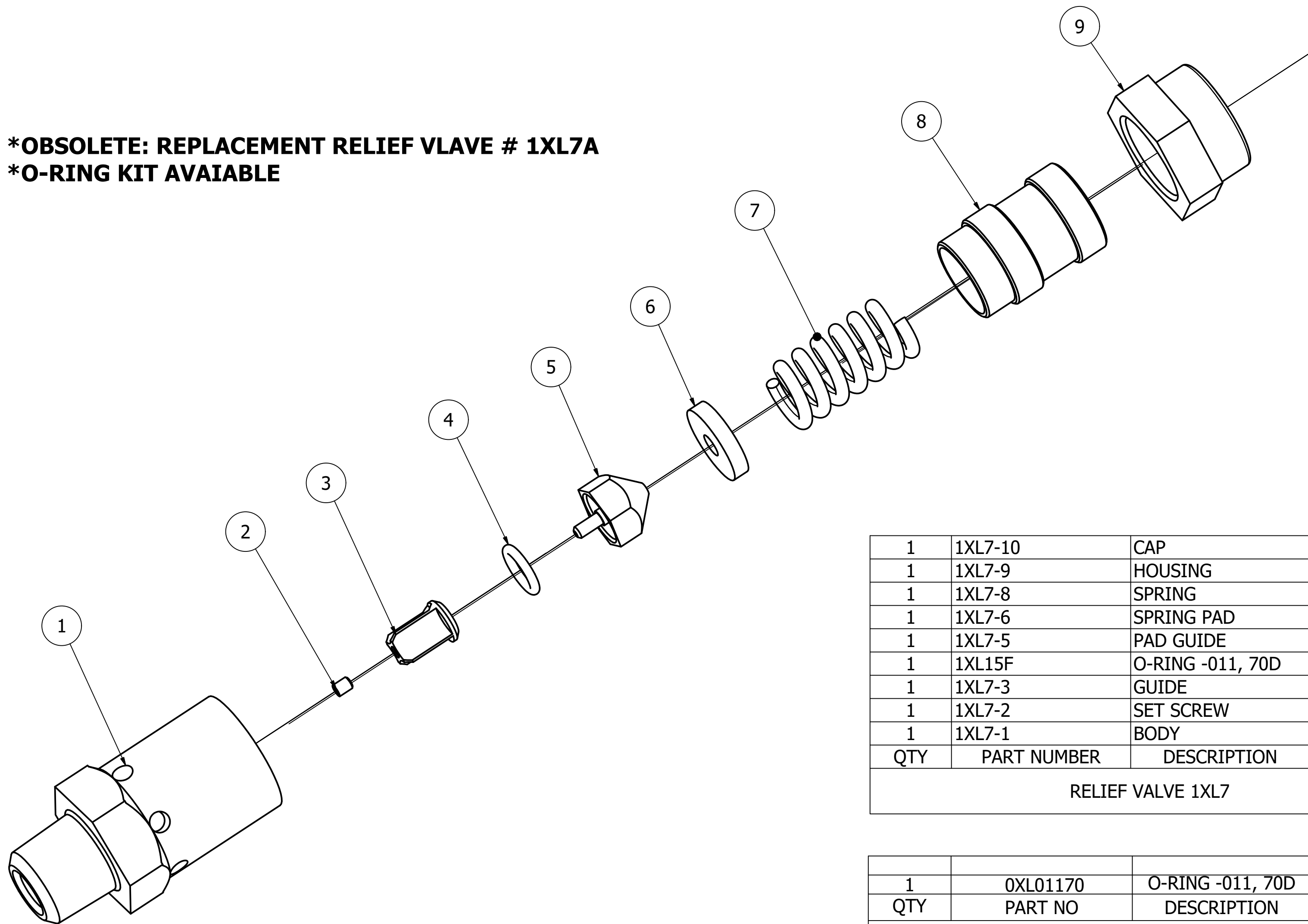
1	1XL2-3RK	SPRING	3
1	0XL11170	O-RING -111, 70D	5
QTY	DIVE LAB PART NO	DESCRIPTION	ITEM
1XL2RK SERVICE KIT			

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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DRAWN MIKE S. WARD	5/6/2005	Dive Lab Inc.		
CHECKED R.H. QA	1/12/2012			
MFG				
APPROVED M.F. WARD	1/12/2012	CHECK VALVE 1XL2		
		SIZE C	DWG NO 7024	REV 5/5/2021
		SCALE		SHEET 1 OF 1

***OBSOLETE: REPLACEMENT RELIEF VLAVE # 1XL7A**
***O-RING KIT AVAIABLE**



1	1XL7-10	CAP	9
1	1XL7-9	HOUSING	8
1	1XL7-8	SPRING	7
1	1XL7-6	SPRING PAD	6
1	1XL7-5	PAD GUIDE	5
1	1XL15F	O-RING -011, 70D	4
1	1XL7-3	GUIDE	3
1	1XL7-2	SET SCREW	2
1	1XL7-1	BODY	1
QTY	PART NUMBER	DESCRIPTION	ITEM
RELIEF VALVE 1XL7			

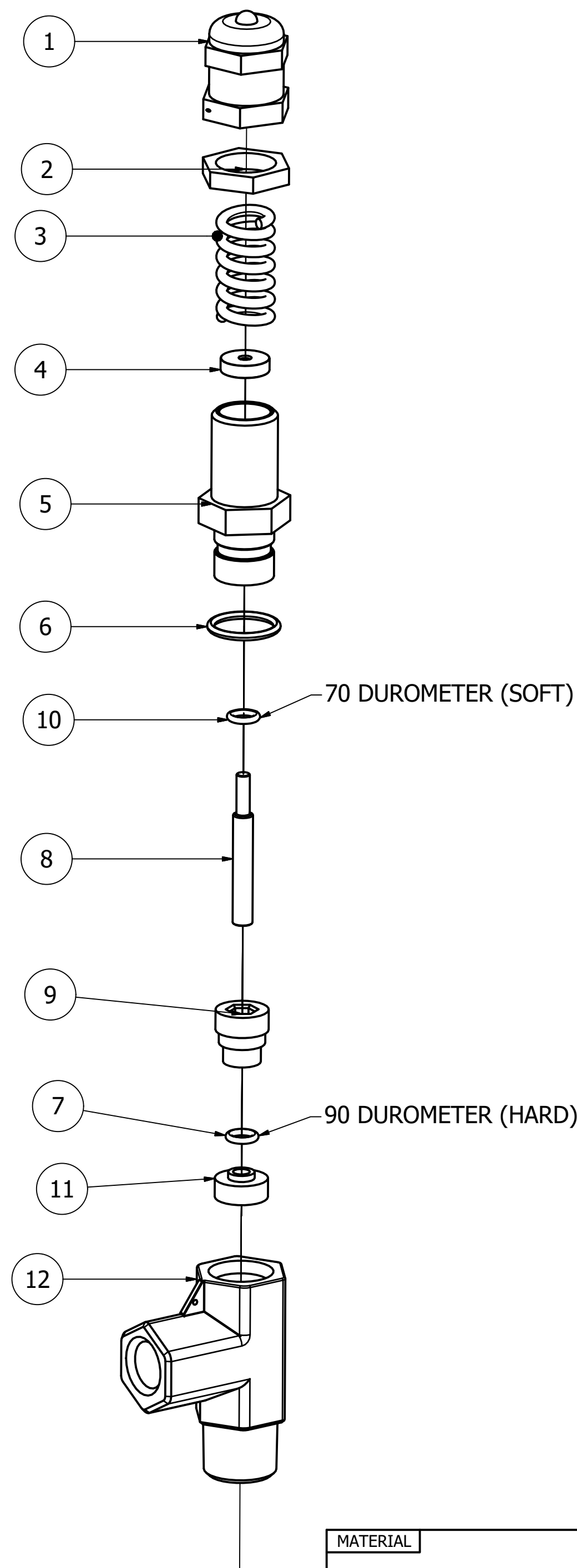
1	0XL01170	O-RING -011, 70D	4
QTY	PART NO	DESCRIPTION	ITEM
1XL7RK SERVICE KIT			



DRAWN	M.S. WARD	5/5/2005
CHECKED	R.H. QA	1/12/2012
MFG		
APPROVED	M.F. WARD	1/12/2012

Dive Lab Inc.			
RELIEF CIRCLE SEAL			
SIZE	C	DWG NO	REV 5/5/2021
SCALE		SHEET 1 OF 1	

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858 .X+- .032 .XX +- .01 .XXX +- .005 √63 UNSPECIFIED SURFACES
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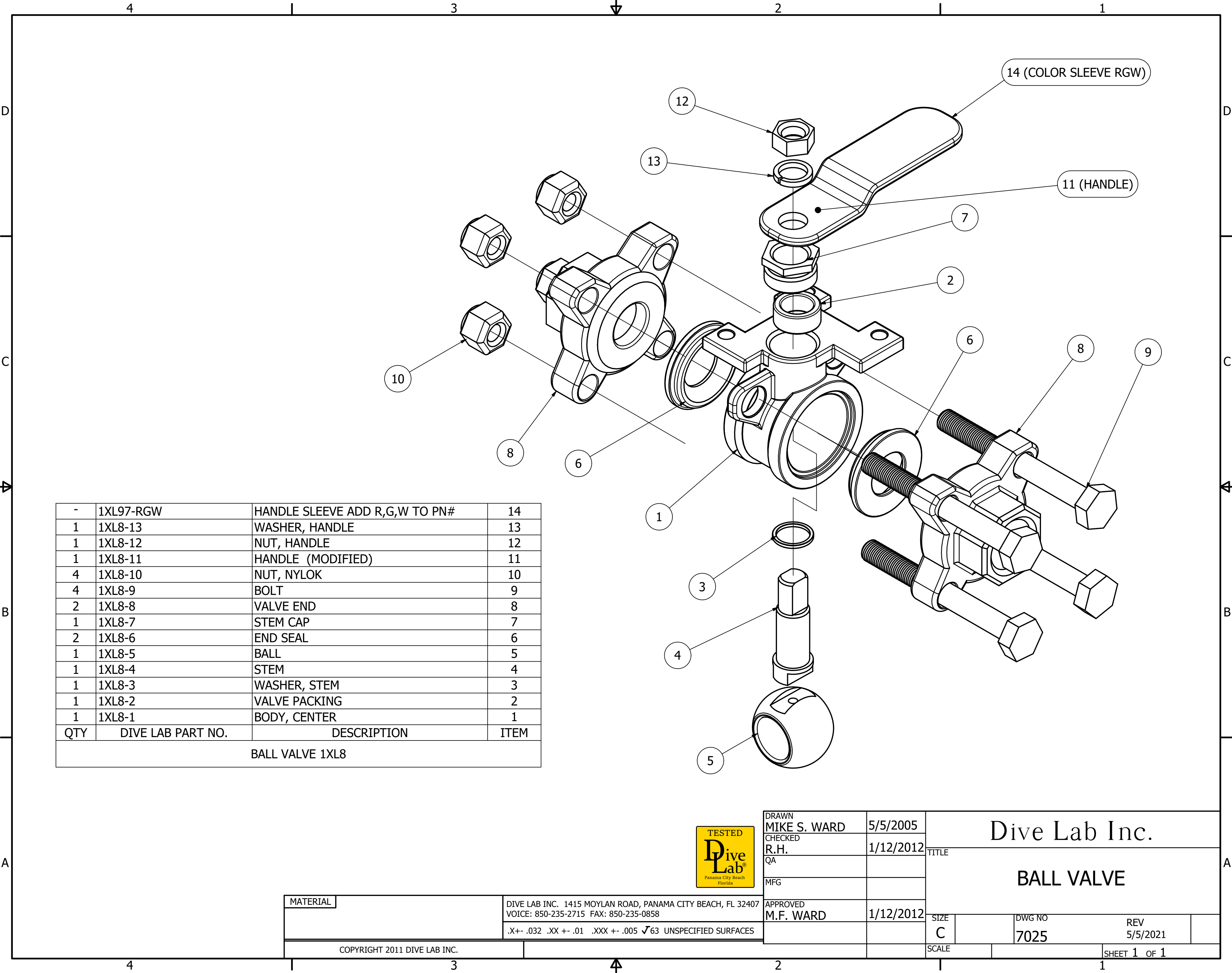


1	BODY	1XL7A-13	12
1	BODY SEAT	1XL7A-12	11
1	O-RING -106 70 DUROMETER	1XL7A-14	10
1	STEM SEAT	1XL7A-10	9
1	STEM	1XL7A-9	8
1	O-RING -106 90 DUROMETER	1XL7A-8	7
1	O-RING -015 70 DUROMETER	1XL7A-6	6
1	BONNET	1XL7A-5	5
1	SPRING DISK	1XL7A-4 (SPRING KIT)	4
1	SPRING	1XL7A-3 (SPRING KIT)	3
1	LOCK NUT	1XL7A-2	2
1	CAP	1XL7A-1	1
QTY	DESCRIPTION	DIVE LAB PART NO	ITEM
RELIEF 1XL7A			

NOTE: ITEMS 3 & 4 DO NOT COME IN THE SOFT GOODS SERVICE KIT.
ORDER PART NUMBER 1XL7ASK SPRING KIT

1	SPRING KIT (SEE NOTE)	1XL7ASK	3 & 4
1	O-RING -106, 90D	1XL7A-8	7
1	O-RING -106, 70D	1XL7A-14	10
1	O-RING -015, 70D	1XL7A-6	6
QTY	DESCRIPTION	DIVE LAB PART NO	ITEM
1XL7ARK SERVICE KIT RELIEF VALVE			

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858	TESTED Dive Lab Panama City Beach Florida	DRAWN M.S. WARD CHECKED R.H. QA MFG	11/2/2011 1/12/2012	Dive Lab Inc.		
			APPROVED M.F. WARD	1/12/2012	RELIEF VALVE		
COPYRIGHT 2011 DIVE LAB INC.					SIZE C	DWG NO 7017	REV 2022
					SCALE	SHEET 1 OF 1	



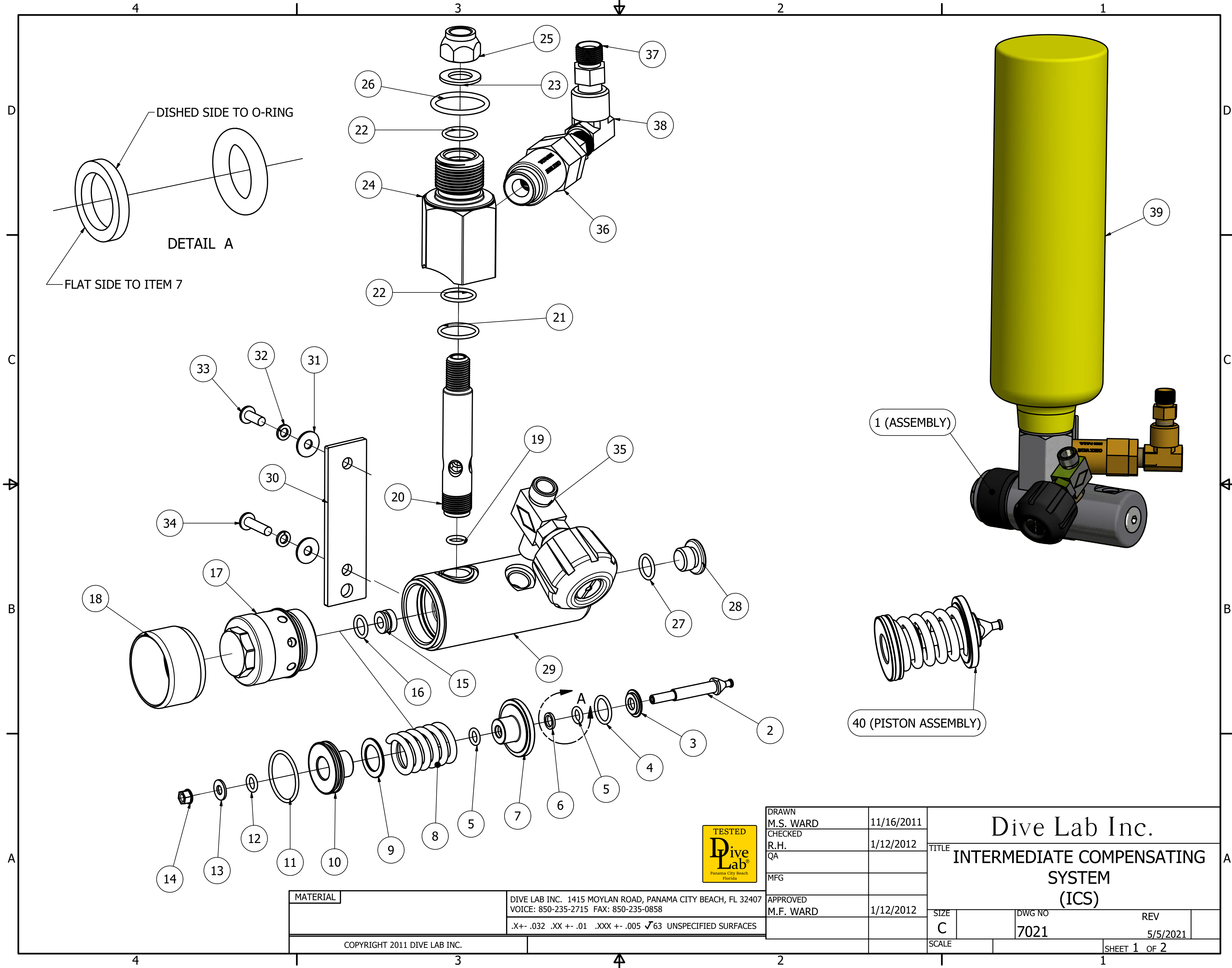
-	1XL97-RGW	HANDLE SLEEVE ADD R,G,W TO PN#	14
1	1XL8-13	WASHER, HANDLE	13
1	1XL8-12	NUT, HANDLE	12
1	1XL8-11	HANDLE (MODIFIED)	11
4	1XL8-10	NUT, NYLOK	10
4	1XL8-9	BOLT	9
2	1XL8-8	VALVE END	8
1	1XL8-7	STEM CAP	7
2	1XL8-6	END SEAL	6
1	1XL8-5	BALL	5
1	1XL8-4	STEM	4
1	1XL8-3	WASHER, STEM	3
1	1XL8-2	VALVE PACKING	2
1	1XL8-1	BODY, CENTER	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
BALL VALVE 1XL8			



DRAWN MIKE S. WARD	5/5/2005	Dive Lab Inc.		
CHECKED R.H. QA	1/12/2012			
MFG		BALL VALVE		
APPROVED M.F. WARD	1/12/2012	SIZE C	DWG NO 7025	REV 5/5/2021
		SCALE	SHEET 1 OF 1	

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
.X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES	

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DISHED SIDE TO O-RING

DETAIL A

FLAT SIDE TO ITEM 7

1 (ASSEMBLY)

40 (PISTON ASSEMBLY)

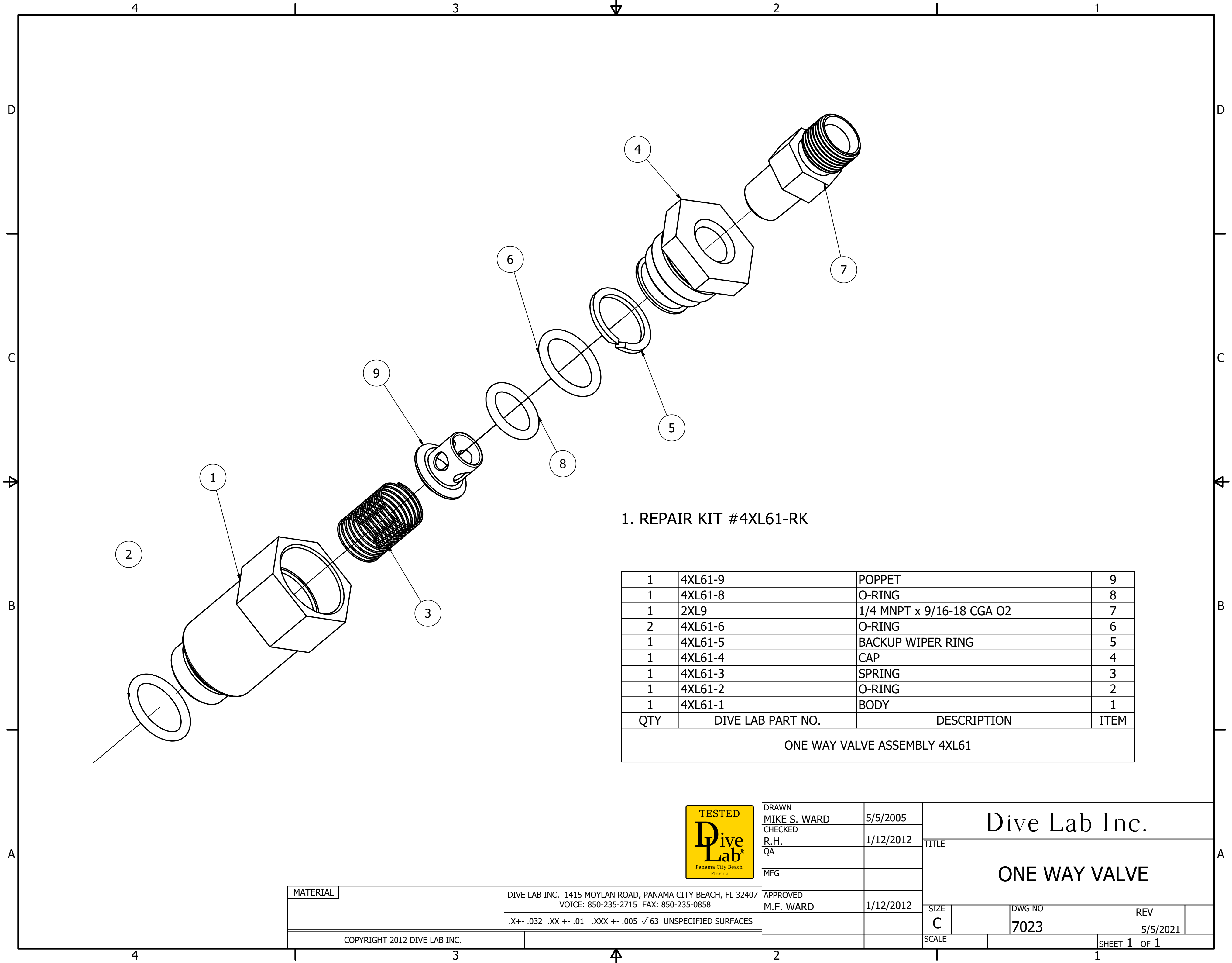


MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
	.X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES

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DRAWN	M.S. WARD	11/16/2011
CHECKED	R.H. QA	1/12/2012
MFG		
APPROVED	M.F. WARD	1/12/2012

Dive Lab Inc.		
TITLE INTERMEDIATE COMPENSATING SYSTEM (ICS)		
SIZE C	DWG NO 7021	REV 5/5/2021
SCALE	SHEET 1 OF 2	



1. REPAIR KIT #4XL61-RK

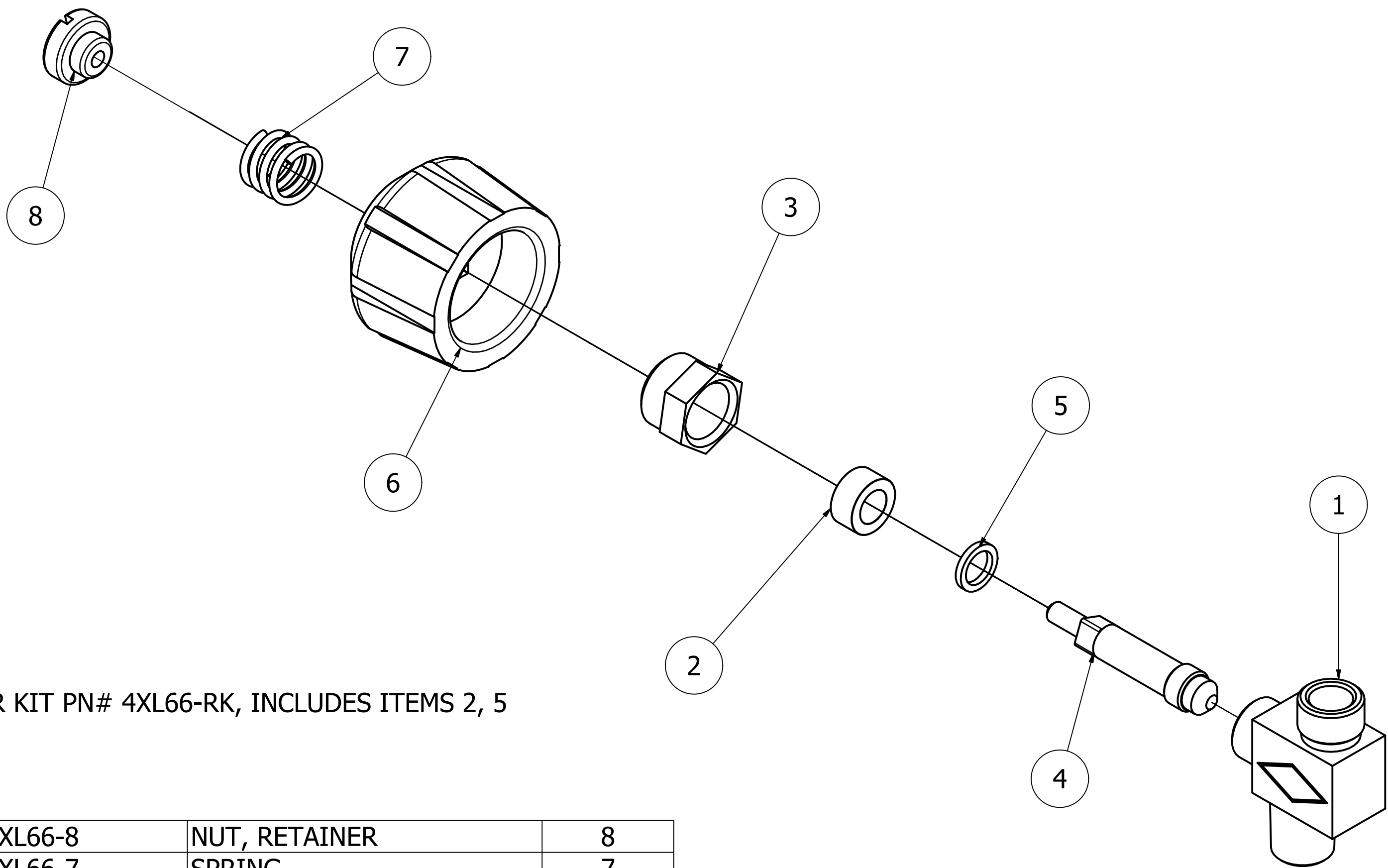
1	4XL61-9	POPPET	9
1	4XL61-8	O-RING	8
1	2XL9	1/4 MNPT x 9/16-18 CGA O2	7
2	4XL61-6	O-RING	6
1	4XL61-5	BACKUP WIPER RING	5
1	4XL61-4	CAP	4
1	4XL61-3	SPRING	3
1	4XL61-2	O-RING	2
1	4XL61-1	BODY	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
ONE WAY VALVE ASSEMBLY 4XL61			



DRAWN MIKE S. WARD	5/5/2005
CHECKED R.H. QA	1/12/2012
MFG	
APPROVED M.F. WARD	1/12/2012

Dive Lab Inc.			
TITLE ONE WAY VALVE			
SIZE C	DWG NO 7023	REV 5/5/2021	
SCALE	SHEET 1 OF 1		

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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1. REPAIR KIT PN# 4XL66-RK, INCLUDES ITEMS 2, 5

1	4XL66-8	NUT, RETAINER	8
1	4XL66-7	SPRING	7
1	4XL66-6	KNOB	6
1	4XL66-5	WASHER, BRASS	5
1	4XL66-4	STEM	4
1	4XL66-3	NUT, PACKING	3
1	4XL66-2	PACKING	2
1	4XL66-1	BODY	1
QTY	DIVE LAB PART	DESCRIPTION	ITEM
EGS VALVE 4XL66			



DRAWN MIKE S. WARD	5/6/2005	Dive Lab Inc.		
CHECKED R.H. QA	1/12/2012			
MFG		EGS VALVE		
APPROVED M.F. WARD	1/12/2012	SIZE C	DWG NO 7022	REV 5/5/2021
SCALE		SHEET 1 OF 1		

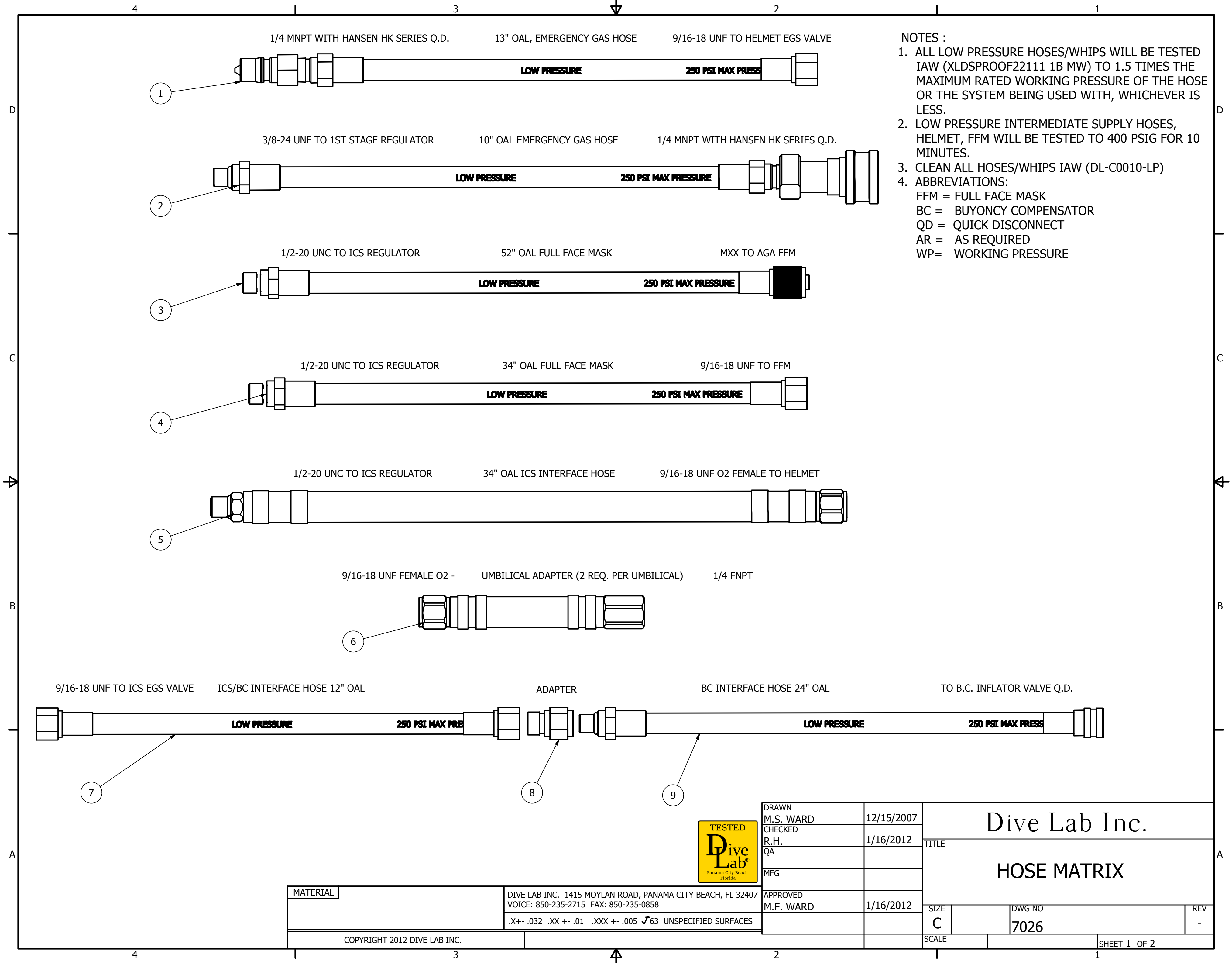
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4XL56	CYLINDER BAND	11
4XL56B	CYLINDER BAND PADS	10
4XL54	ICS SURGE BOTTLE	9
4XL79A	1ST STAGE RELIEF VALVE (XS SCUBA)	8
4XL79	1ST STAGE RELIEF VALVE (KMDSI)	7
4XL75A	TANK VALVE	6
4XL77	H.P. MINI PRESSURE GAUGE	5
4XL76	CONSHLF 1ST STAGE REGULATOR	4
4XL75	30CF EGS CYLINDER	3
	ICS HARNESS STRAP KIT (4 STRAPS)	2
4XL69	MILLER NORTH SEA HARNESS	1
DIVE LAB PART NO.	DESCRIPTION	ITEM
MILLER NORTH SEA HARNESS		



DRAWN MIKE WARD	1/31/2012	TITLE MILLER HARNESS		
CHECKED R.H. QA	1/31/2012			
MFG		SIZE C		
APPROVED M.F. WARD	1/31/2012			
		SCALE	DWG NO 7030	REV -
		SHEET 1 OF 1		



- NOTES :
1. ALL LOW PRESSURE HOSES/WHIPS WILL BE TESTED IAW (XLDSPROOF22111 1B MW) TO 1.5 TIMES THE MAXIMUM RATED WORKING PRESSURE OF THE HOSE OR THE SYSTEM BEING USED WITH, WHICHEVER IS LESS.
 2. LOW PRESSURE INTERMEDIATE SUPPLY HOSES, HELMET, FFM WILL BE TESTED TO 400 PSIG FOR 10 MINUTES.
 3. CLEAN ALL HOSES/WHIPS IAW (DL-C0010-LP)
 4. ABBREVIATIONS:
FFM = FULL FACE MASK
BC = BUYONCY COMPENSATOR
QD = QUICK DISCONNECT
AR = AS REQUIRED
WP= WORKING PRESSURE



MATERIAL		DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858		APPROVED M.F. WARD		1/16/2012					
		.X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES						SIZE C	DWG NO 7026		REV -
COPYRIGHT 2012 DIVE LAB INC.								SCALE		SHEET 1 OF 2	

- NOTES :
- 1. ALL LOW PRESSURE HOSES/WHIPS WILL BE TESTED IAW (XLDSPROOF22111 1B MW) TO 1.5 TIMES THE MAXIMUM RATED WORKING PRESSURE OF THE HOSE OR THE SYSTEM BEING USED WITH, WHICHEVER IS LESS.
 - 2. LOW PRESSURE INTERMEDIATE SUPPLY HOSES, HELMET, FFM WILL BE TESTED TO 400 PSIG FOR 10 MINUTES.
 - 3. CLEAN ALL HOSES/WHIPS IAW (DL-C0010-LP)
 - 4. ABBREVIATIONS:
FFM = FULL FACE MASK
BC = BUYONCY COMPENSATOR
QD = QUICK DISCONNECT
AR = AS REQUIRED
WP= WORKING PRESSURE

1XL15G	-013, -013	24"/AR	4XL69B-2	ICS / BC INTERFACE HOSE FOR WING HARNESS LOW PRESSURE	9
4XL69-3	-	-	4XL69-3	HOSE ADAPTER 3/8-24 UNF x 9/16-18 UNF LOW PRESSURE	8
1XL15M	-010, -010	12"/AR	4XL69B-1	BC INTERFACE HOSE FOR WING HARNESS LOW PRESSURE	7
-	-	4"	2XL9	UMBILICAL ADAPTER HOSE 400 PSIG W.P. 2 REQ. PER DIVER	6
1XL15G	-013	34"/AR	4XLHMG-A	ICS INTERFACE HOSE, HELMET MAIN GAS LOW PRESSURE	5
1XL15G 1XL15M	-013 -010	34"/AR -	1XLFFM -	FFM HOSE- M48, EXO LOW PRESSURE	4
1XL15G 1XL15H	-013 1.6 x 9.1 mm	52"/AR	1XLAGA -	AGA FFM HOSE LOW PRESSURE	3
1XL15M -	-010 -	10"/AR -	4XL78B 4XL80-2	EGS HOSE (1ST STAGE REGULATOR) LOW PRESSURE HANSEN HK SERIES FEMALE QD	2
1XL15G	-013	13"/AR	4XL78A 4XL80-1	HELMET EGS HOSE LOW PRESSURE HANSEN HK SERIES MALE QD	1
O-RING PART NO	O-RING / S	LENGTH	DIVE LAB PART NO.	DESCRIPTION	ITEM
XLDS HOSE MATRIX / IDENTIFICATION					

TESTED

Dive Lab

Panama City Beach
Florida

DRAWN
M.S. WARD

CHECKED
R.H. QA

MFG

APPROVED
M.F. WARD

12/15/2007

1/16/2012

1/16/2012

MATERIAL

DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407
VOICE: 850-235-2715 FAX: 850-235-0858
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TITLE

HOSE MATRIX

SIZE
C

DWG NO
7026

SCALE

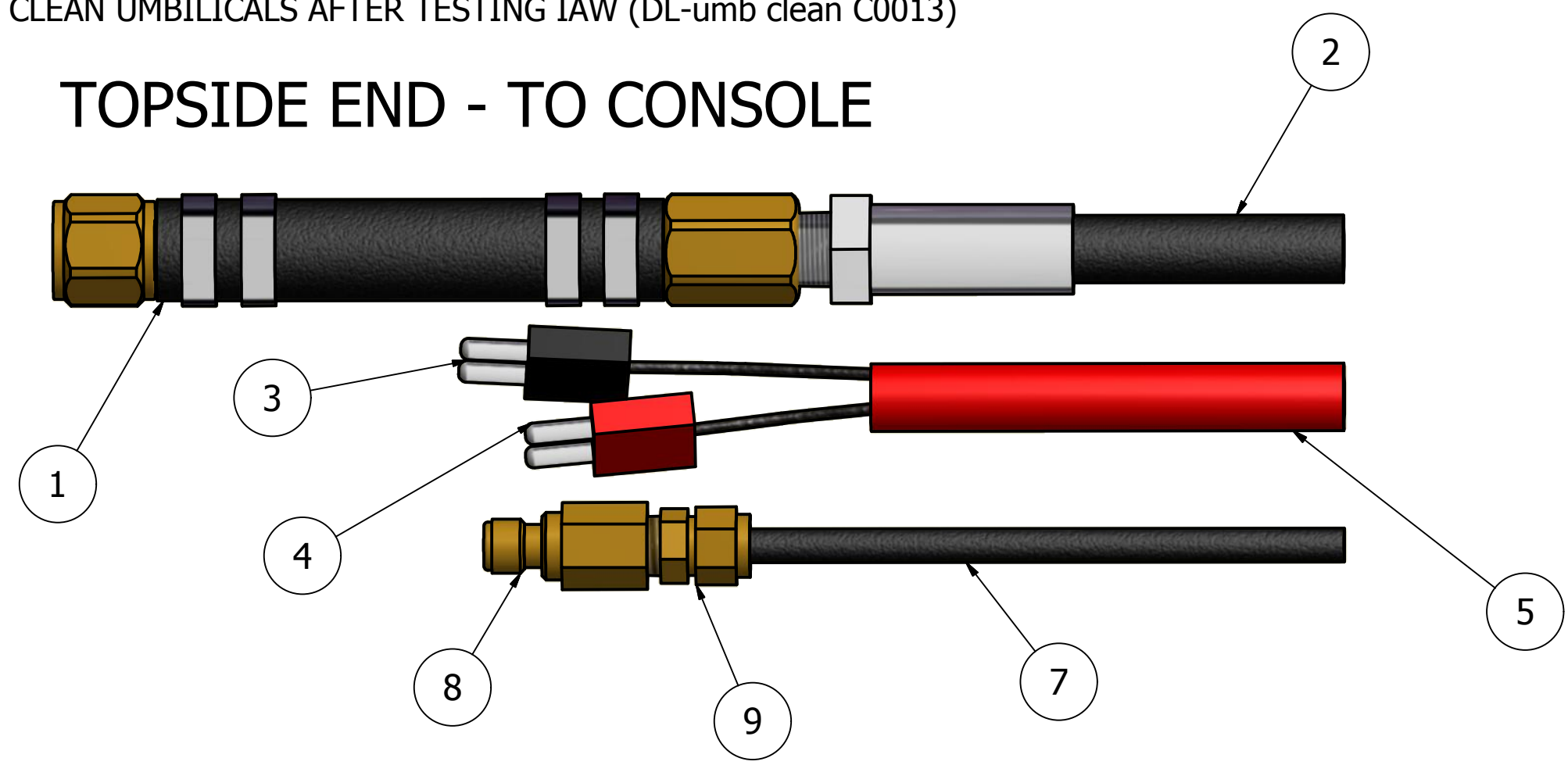
SHEET 2 OF 2

REV
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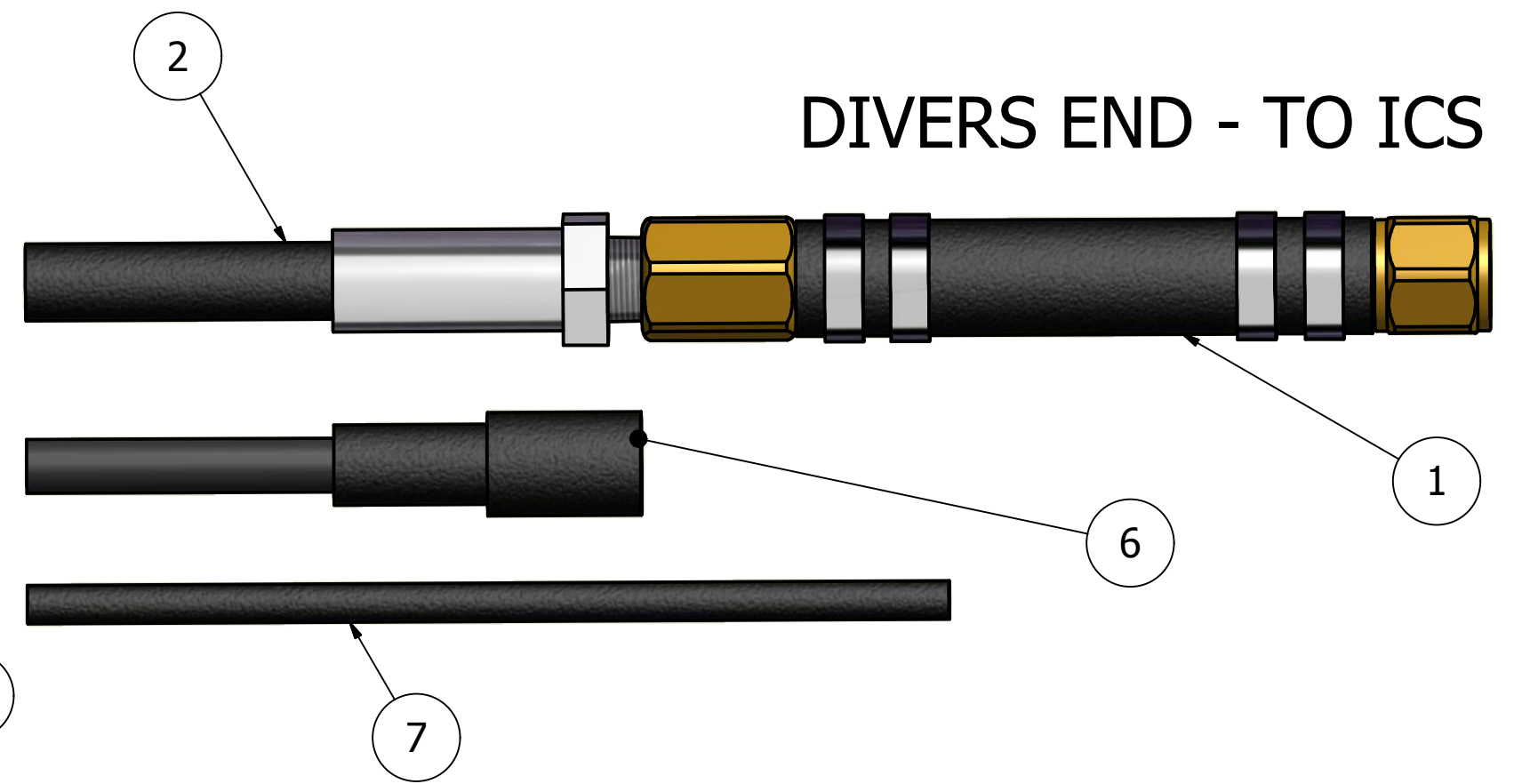
Dive Lab Inc.

- NOTES :
1. UMBILICAL MAIN GAS HOSE MAX WORKING PRESSURE IS 1500 PSIG.
 2. XLDS RDC-3 MAXIMUM SYSTEM WORKING PRESSURE IS 400 PSIG
 3. UMBILICAL HYDROSTAIC TEST PROCEDURE IAW (XLDSPROOF221111 1B MW), DRAWING # 7737
 - A. PULL TEST EACH END FITTING USING A 100 LB DEAD WEIGHT WHILE THE UMBILICAL IS PRESSURIZED TO 800 PSIG FOR 10 MINUTES.
 - B. TAPE OR MARK WHERE THE FITTINGS MEET THE HOSE TO IDENTIFY SLIPPAGE. NO LEAKS OR FITTING SLIPPAGE.
 3. CLEAN UMBILICALS AFTER TESTING IAW (DL-umb clean C0013)

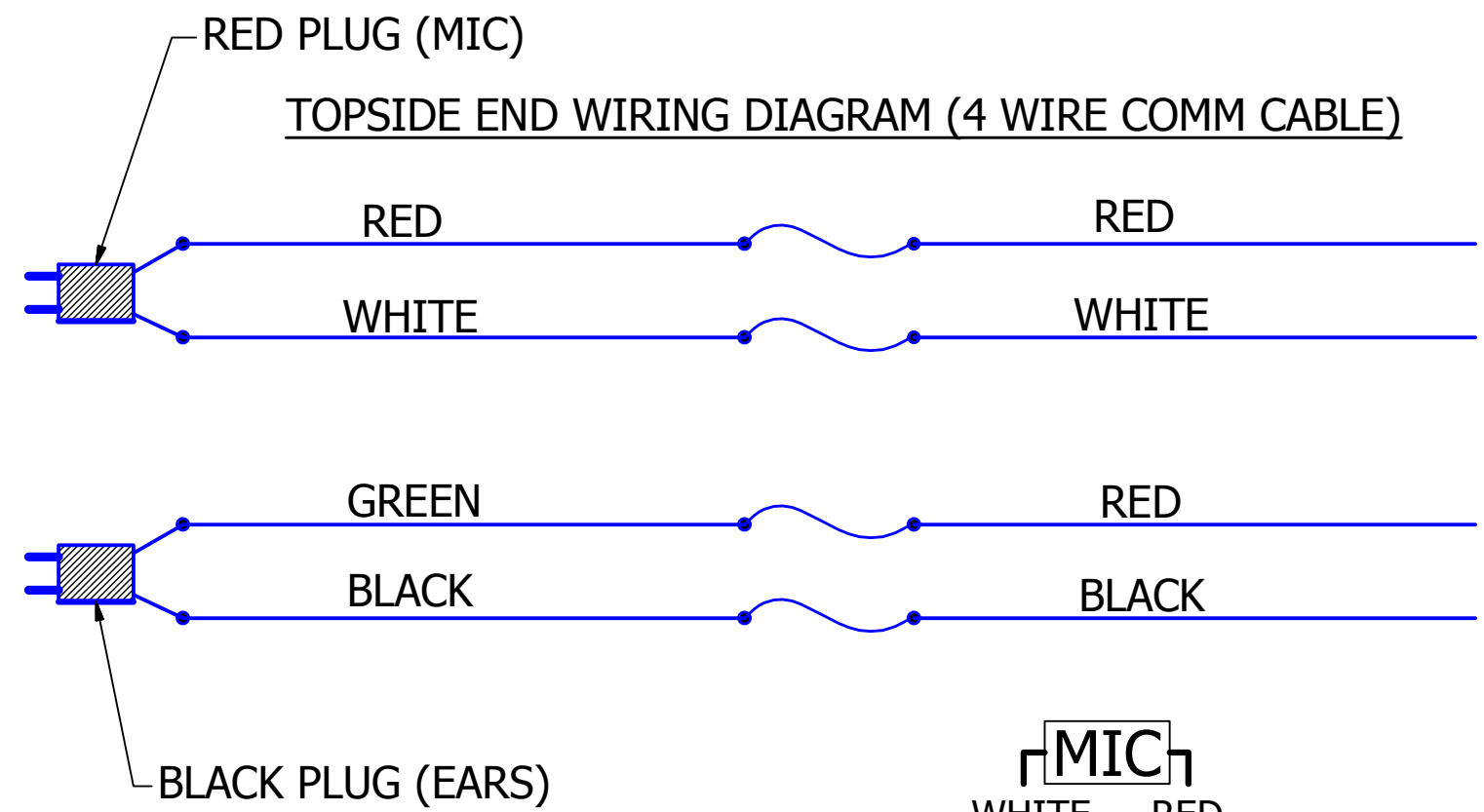
TOPSIDE END - TO CONSOLE



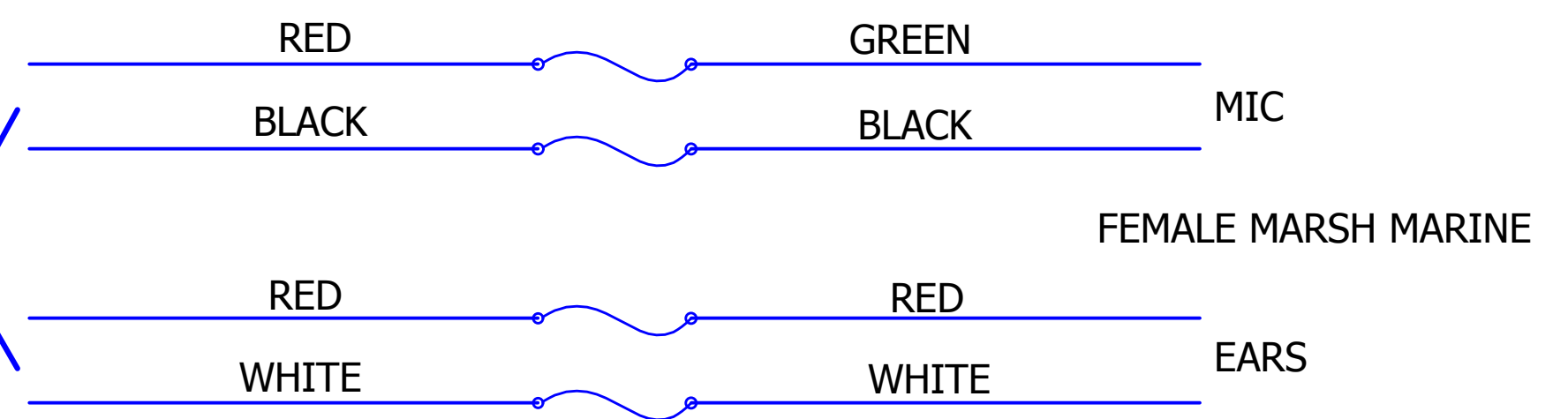
DIVERS END - TO ICS



TOPSIDE END WIRING DIAGRAM (4 WIRE COMM CABLE)

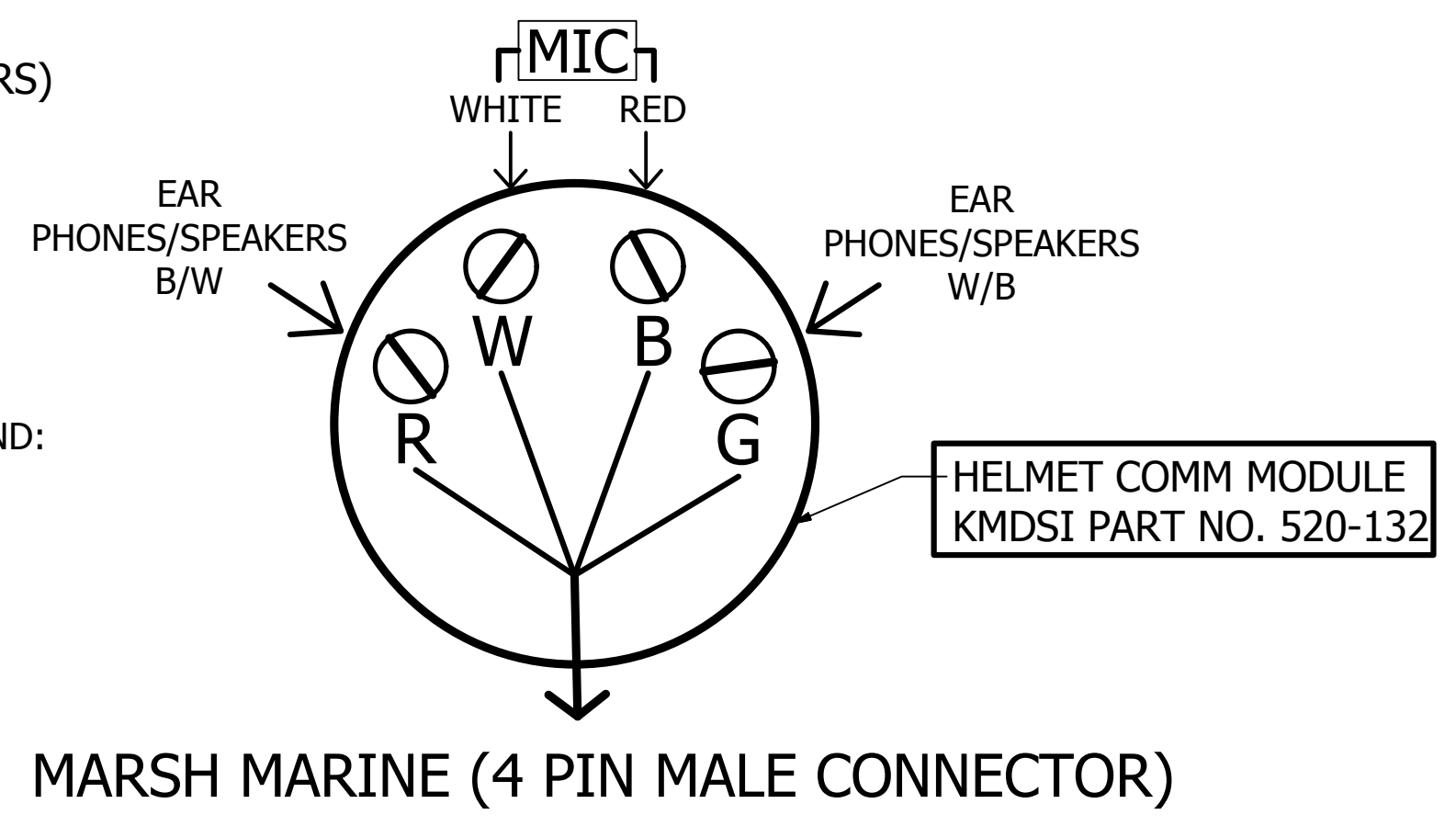


DIVERS END WIRING DIAGRAM 4 WIRE COMM CABLE



COMM WIRE

COMM MODULE WIRING LEGEND:
 R= RED
 W=WHITE
 G=GREEN
 B=BLACK



DRAWN M.S. WARD	6/14/2007	COPYRIGHT DIVE LAB INC. 2012		
CHECKED R.H.	2/1/2012	TITLE		
MFG		XLDS 1/4" UMBILICAL 300' (COMPLETE)		
APPROVED M.F. WARD	2/1/2012	SIZE C	DWG NO 7731	REV -
SCALE		SHEET 1 OF 2		

- NOTES :
- 1. UMBILICAL MAIN GAS HOSE MAX WORKING PRESSURE IS 1500 PSIG.
 - 2. XLDS RDC-3 MAXIMUM SYSTEM WORKING PRESSURE IS 400 PSIG
 - 3. UMBILICAL HYDROSTAIC TEST PROCEDURE IAW (XLDSPROOF221111 1B MW)
 - A. PULL TEST EACH END FITTING USING A 100 LB DEAD WEIGHT WHILE THE UMBILICAL IS PRESSURIZED TO 800 PSIG FOR 10 MINUTES.
 - B. TAPE OR MARK WHERE THE FITTINGS MEET THE HOSE TO IDENTIFY SLIPPAGE. NO LEAKS OR FITTING SLIPPAGE.
 - 3. CLEAN UMBILICALS AFTER TESTING IAW (DL-umb clean C0013)

1	2XL12	3/8 NYLON GRAB LINE 25' (NOT SHOWN)	16
X	2XL19	3M POTTING/SPLICE KIT FOR 4 PIN CONNECTOR (NOT SHOWN)	15
X	2XL13	550 CORD (NOT SHOWN)	14
1	2XL8 R,G,Y	SPIRAL HOSE WRAP R,Y,G (NOT SHOWN)	13
2	2XL7	D-RING 2"	12
1	2XL5	SHACKLE	11
1	2XL6	SNAP SHACKLE WITH D RING (NOT SHOWN)	10
1	2XL16A	FITTING PNEUMO HOSE x 1/4 MNPT	9
1	2XL16	HANSEN MALE QD x 1/4 FNPT	8
1	2XL17	PNEUMO HOSE	7
1	2XL11	FEMAEL 4 PIN - AVAILABLE IN 30" AND 24" ADD LENGTH TO PART NO.	6
1	2XL1B	4 WIRE COMMUNICATION/STRENGTH CABLE	5
1	1XL18R	RED BANANA PLUG	4
1	1XL18B	BLACK BANANA PLUG	3
1	2XL1A	1/4" MAIN GAS HOSE	2
2	2XL9	UMBILICAL INTERFACE HOSE 9/16-18 UNF x 1/4 FNPT	1
X	2XL00-R,G,Y	XLDS 300' 1/4" UMBILICAL ASSEMBLY COMPLETE	-
QTY	DIVE LAB PART NO	DESCRIPTION	ITEM
300' 1/4" XLDS UMBILICAL ASSEMBLY 2XL00 R,Y,G			



DRAWN M.S. WARD	6/14/2007	COPYRIGHT DIVE LAB INC. 2012		
CHECKED R.H.	2/1/2012	TITLE XLDS 1/4" UMBILICAL 300' (COMPLETE)		
MFG				
APPROVED M.F. WARD	2/1/2012	SIZE C	DWG NO 7731	REV -
		SCALE	SHEET 2 OF 2	

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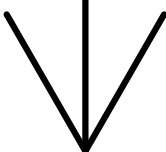
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T-TL111	O-RING PICK SET (BRASS)
6XL00	(XLDS SPARES KIT-INCLUDED WITH SYSTEM) : 1454 CASE, FLOW METER, BUSHINGS, BCD ADAPTER, OVER BOTTOM GAUGE, REGULATOR REPAIR KIT, 3PC BALL VALVE REPAIR KIT, DIN O-RING, HP VCO O-RING, PLUGS 9/16", DUST CAPS, YOKE BLEED
2XL20	PELICAN 1690 STORAGE CASE FOR UMBILICALS,HARNESS
6XL01	1454 PELICAN CASE W/ PADDED DIVIDERS
6XL05	1/4" MNPT x 9/16-18 CGA O2
6XL04	1/2' MNPT x 1/4" FNPT BUSHING FOR FLOW METER
6XL03	1" MNPT x 1/2" FNPT BUSHING FOR FLOW METER
6XL02	700 LITER FLOW METER
6XL07	3/8-24 UNF x BCD ADAPTER (FOR OVER BOTTOM GAUGE)
6XL07	OVER BOTTOM GAUGE WITH QD
6XL11A	DUST CAPS (RED) VINYL 3/8"
6XL11	DUST CAPS (RED) VINYL 1/2"
6XL10	DUST PLUG (YELLOW) 9/16-18 UNF
1XL33A	COMM BOX RETAINER CORD HYDROLINX
DIVE LAB PART NO	MISC PARTS
MISC COMPONENTS AND XLDS SPARES KIT	

6XL00



DRAWN MIKE WARD	11/3/2011
CHECKED R.H. QA	2/3/2012
MFG	
APPROVED M.F. WARD	2/3/2012

Dive Lab Inc.			
TITLE			
SERVICE KITS/SPARE PARTS			
SIZE		DWG NO	REV
C		7033	-

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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1XLMRK	COMPLETE MASTER KIT (FOR 3 DIVER SYSTEM)
1XLSK	SPARES O-RING KIT (MISC) HOSES, PORT PLUGS, TANK VALVE, HP ZCO,DIN YOKE
4XL75ARK	TANK VALVE
4XL76RK	CONSHelf 14 1ST STAGE REGULATOR
4XL66RK	EGS VALVE (COMES IN ICS KIT)
4XL61RK	CIRCLE SEAL ONE WAY VALVE
4XL62RK	INTERMEDIATE COMPENSATING SYSTEM (ICS)
3XL89RK	SHERWOOD HIGH PRESSURE VALVE
1XL6RK	SOFT SEAT NEEDLE (PNEUMO) VALVE STAINLESS
1XL8RK	3PC BALL VALVE
1XL7ARK	RELIEF HYLOK, STAINLESS
1XL2RK	HYLOK CHECK VALVE 1XL2
1XL1RK	0-400 AQUA ENVIRONMENT REGULATOR 1XL1
DIVE LAB PART NO.	REBUILD KIT DESCRIPTION
XLDS RDC-2D-3D KITS AND SPARES	

D

C

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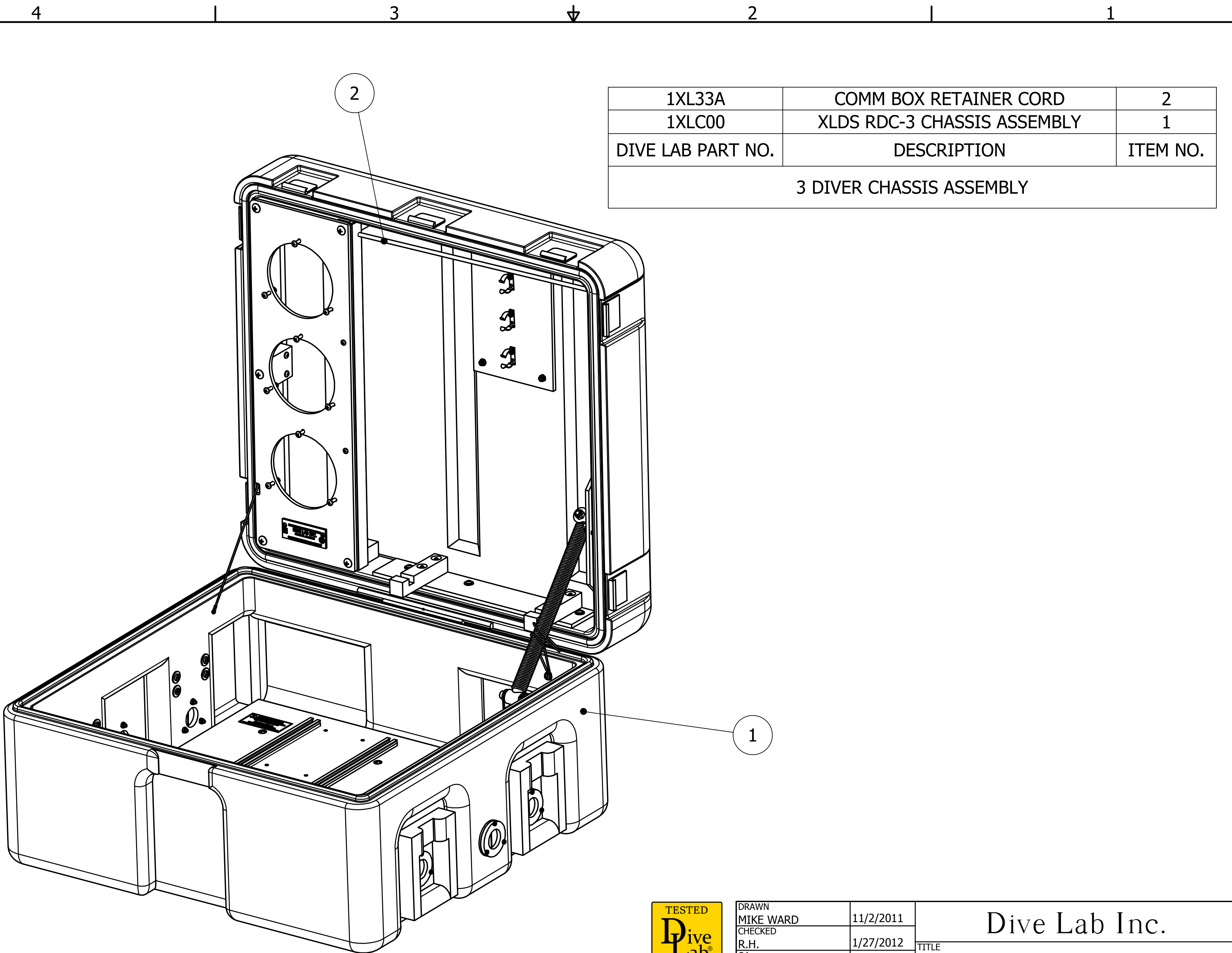
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DRAWN MIKE WARD	11/3/2011
CHECKED R.H. QA	2/3/2012
MFG	
APPROVED M.F. WARD	2/3/2012

Dive Lab Inc.			
TITLE SERVICE KITS/SPARE PARTS			
SIZE C		DWG NO 7033	REV -
SCALE		SHEET 1 OF 2	



1XL33A	COMM BOX RETAINER CORD	2
1XLC00	XLDS RDC-3 CHASSIS ASSEMBLY	1
DIVE LAB PART NO.	DESCRIPTION	ITEM NO.
3 DIVER CHASSIS ASSEMBLY		

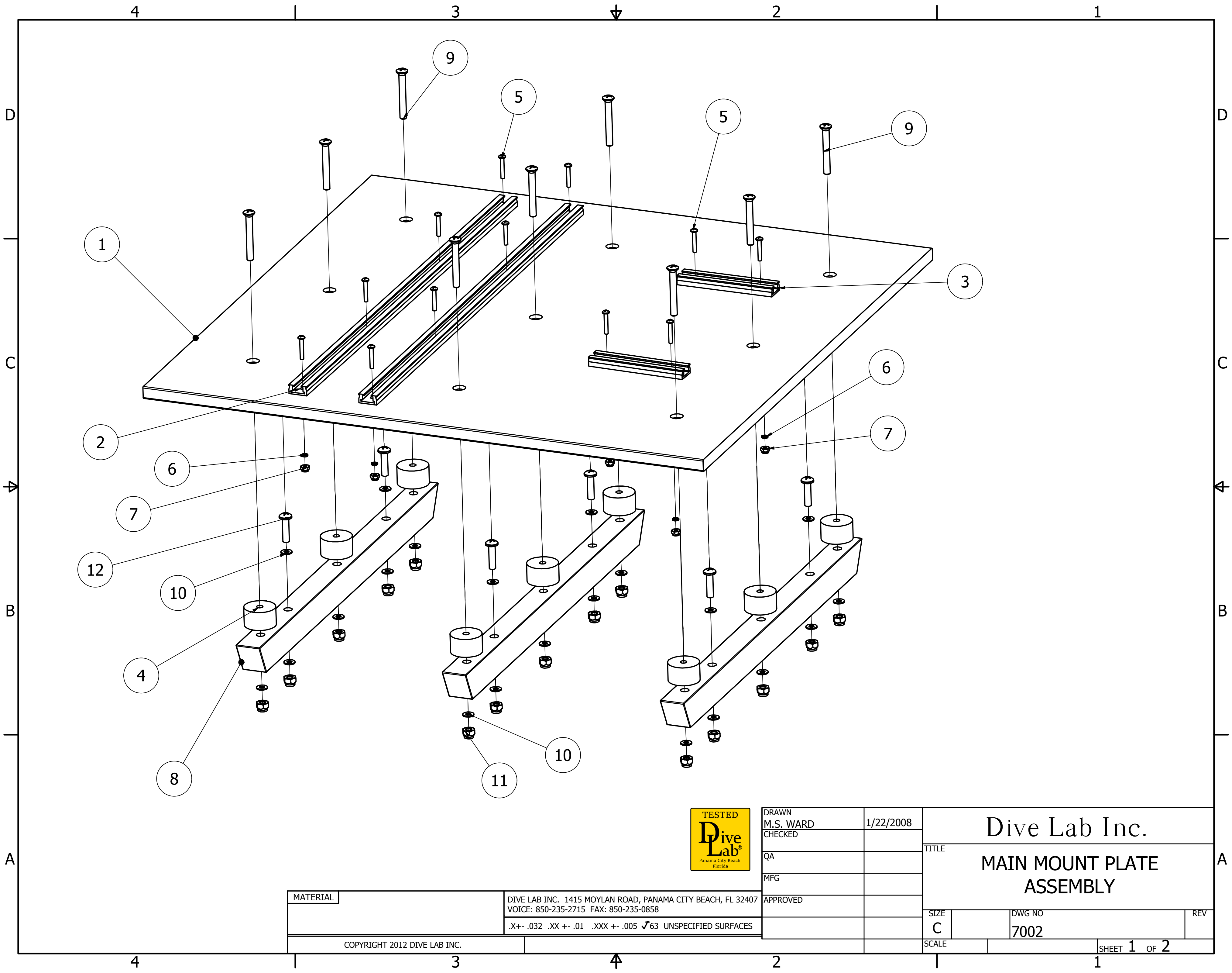


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DRAWN MIKE WARD	11/2/2011
CHECKED R.H. QA	1/27/2012
MFG	
APPROVED M.F. WARD	1/27/2012

Dive Lab Inc.			
TITLE 3 DIVER CHASSIS ASSEMBLY			
SIZE C	DWG NO 7000	REV -	
SCALE	SHEET 1 OF 1		

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DRAWN	M.S. WARD	1/22/2008
CHECKED		
QA		
MFG		
APPROVED		

Dive Lab Inc.			
TITLE			
MAIN MOUNT PLATE ASSEMBLY			
SIZE	C	DWG NO	7002
SCALE		REV	
SHEET 1 OF 2			

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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-	1XLCMP00	COMPLETE ASSEMBLY	-
6	1XLC31	1/4-20 x 1-1/4 SCREW	12
15	1XLC4	1/4" NYLOK NUT	11
21	1/4 FLAT WASHER	1/4" FLAT WASHER	10
9	1XLC11	1/4-20 x 2"	9
3	1XL38	SKID BAR	8
12	1XLC33	6-32 NYLOK NUT	7
12	1XLC32A	#6 FLAT WASHER	6
12	1XLC32	6-32 x 1-1/4 SCREW	5
9	1XL43	SHOCK MOUNT	4
2	1XL39B	TRACK 4"	3
2	1XL39A	TRACK 22"	2
1	1XL36	MAIN MOUNT PLATE	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
MAIN MOUNT PLATE ASSEMBLY			

TESTED

Dive Lab

Panama City Beach
Florida

DRAWN

M.S. WARD

CHECKED

QA

MFG

APPROVED

1/22/2008

MATERIAL

DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407
VOICE: 850-235-2715 FAX: 850-235-0858
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TITLE

Dive Lab Inc.

MAIN MOUNT PLATE ASSEMBLY

SIZE

C

DWG NO

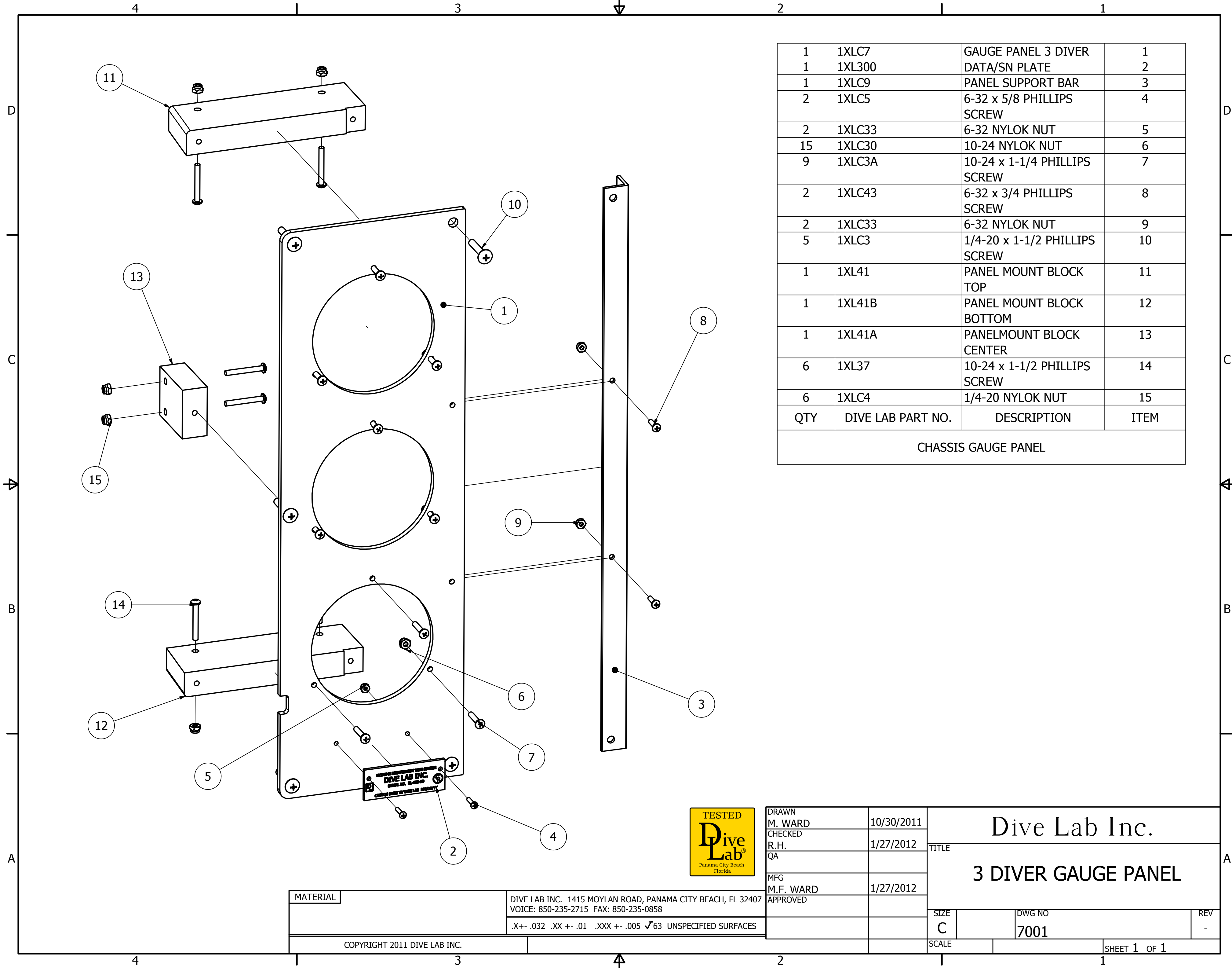
7002

REV

SCALE

SHEET 2 OF 2

38



1	1XLC7	GAUGE PANEL 3 DIVER	1
1	1XL300	DATA/SN PLATE	2
1	1XLC9	PANEL SUPPORT BAR	3
2	1XLC5	6-32 x 5/8 PHILLIPS SCREW	4
2	1XLC33	6-32 NYLOK NUT	5
15	1XLC30	10-24 NYLOK NUT	6
9	1XLC3A	10-24 x 1-1/4 PHILLIPS SCREW	7
2	1XLC43	6-32 x 3/4 PHILLIPS SCREW	8
2	1XLC33	6-32 NYLOK NUT	9
5	1XLC3	1/4-20 x 1-1/2 PHILLIPS SCREW	10
1	1XL41	PANEL MOUNT BLOCK TOP	11
1	1XL41B	PANEL MOUNT BLOCK BOTTOM	12
1	1XL41A	PANELMOUNT BLOCK CENTER	13
6	1XL37	10-24 x 1-1/2 PHILLIPS SCREW	14
6	1XLC4	1/4-20 NYLOK NUT	15
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
CHASSIS GAUGE PANEL			

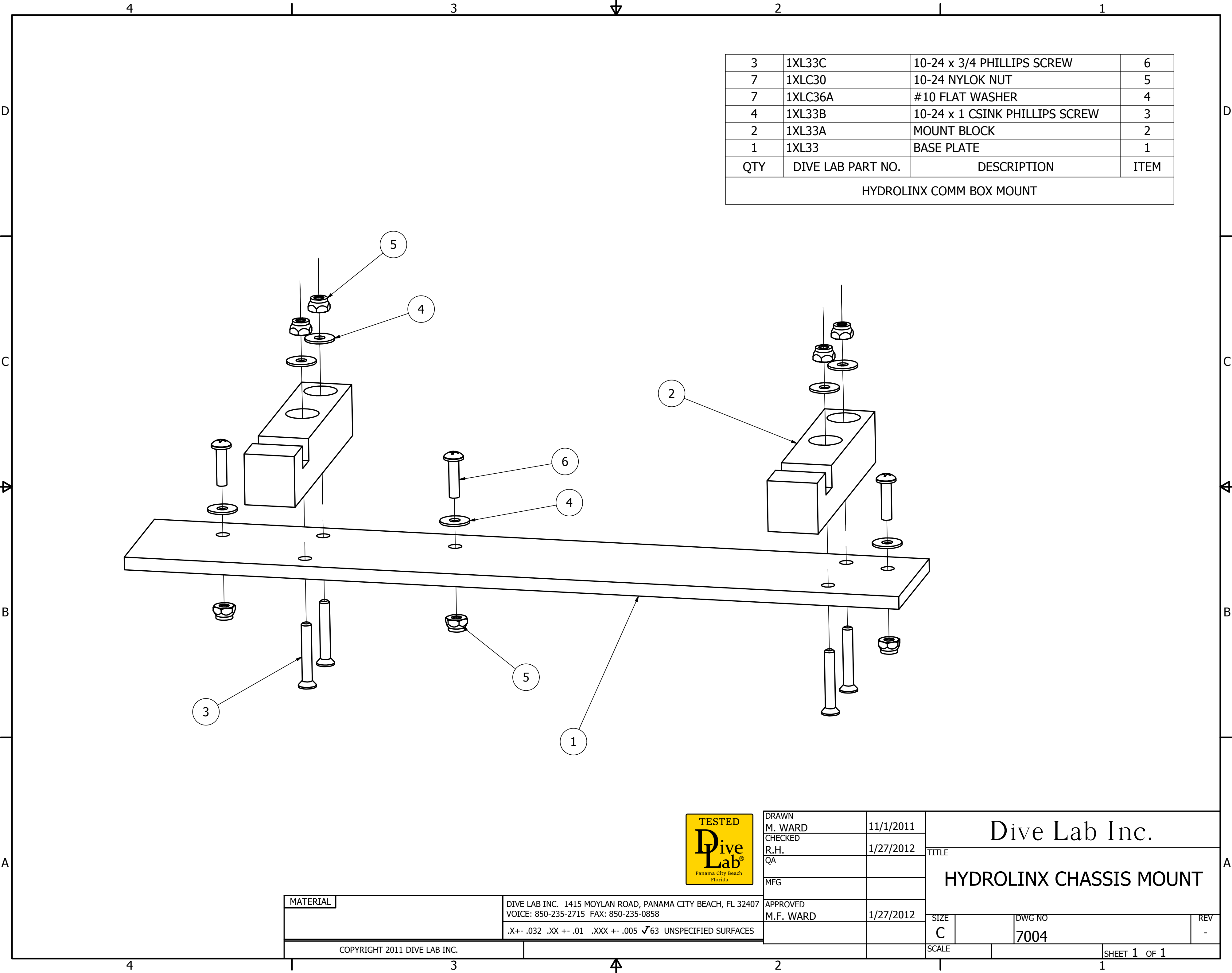


DRAWN	M. WARD	10/30/2011
CHECKED	R.H. QA	1/27/2012
MFG	M.F. WARD	1/27/2012
APPROVED		

Dive Lab Inc.			
3 DIVER GAUGE PANEL			
SIZE	C	DWG NO	7001
SCALE		SHEET 1	OF 1

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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3	1XL33C	10-24 x 3/4 PHILLIPS SCREW	6
7	1XLC30	10-24 NYLOK NUT	5
7	1XLC36A	#10 FLAT WASHER	4
4	1XL33B	10-24 x 1 CSINK PHILLIPS SCREW	3
2	1XL33A	MOUNT BLOCK	2
1	1XL33	BASE PLATE	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
HYDROLINX COMM BOX MOUNT			



MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
	.X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES

DRAWN M. WARD	11/1/2011
CHECKED R.H. QA	1/27/2012
MFG	
APPROVED M.F. WARD	1/27/2012

Dive Lab Inc.			
TITLE HYDROLINX CHASSIS MOUNT			
SIZE C	DWG NO 7004	REV -	
SCALE	SHEET 1 OF 1		

4 3 2 1

D

D

C

C

B

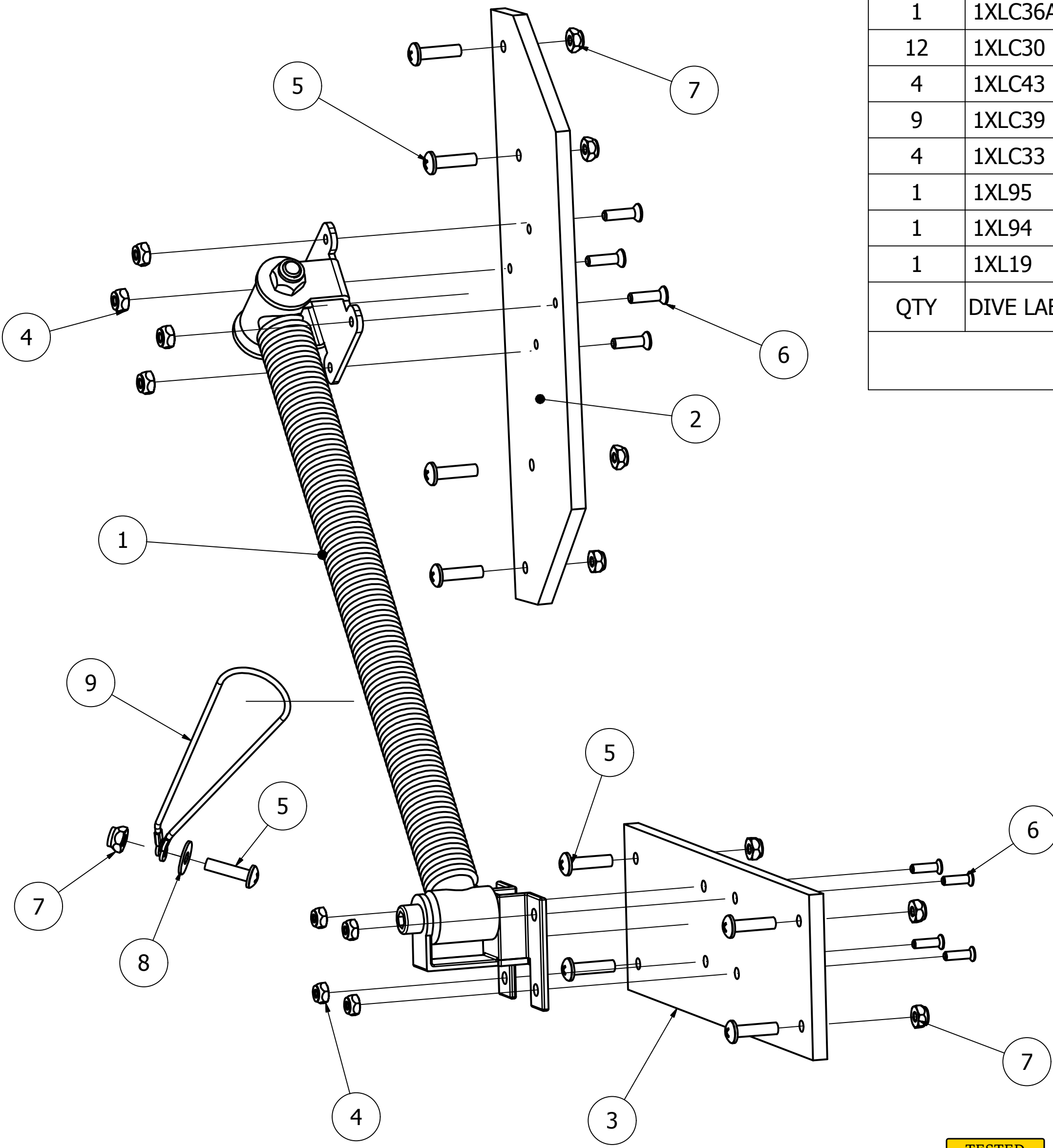
B

B

B

A

A



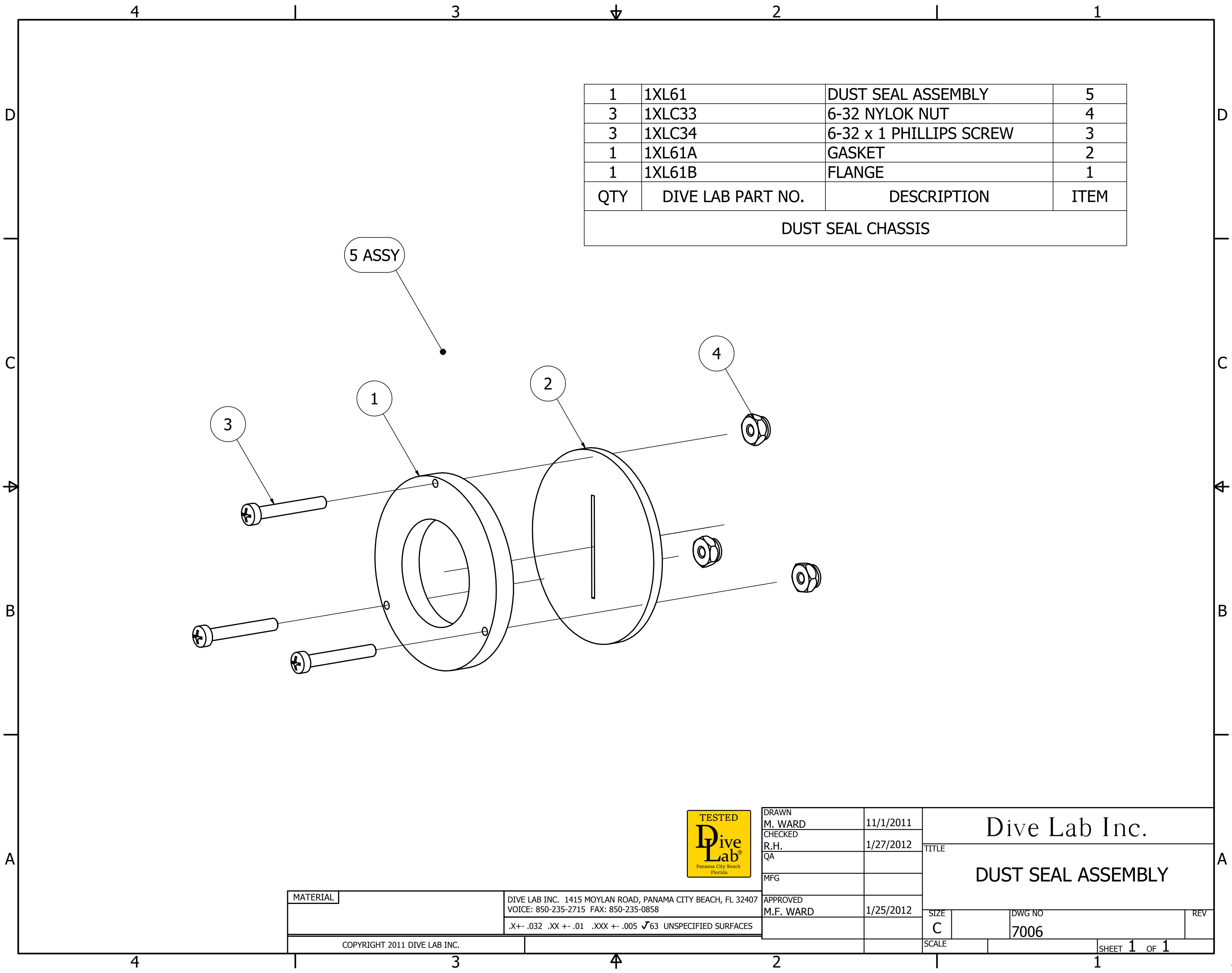
1	1XL19A	SPRING SAFETY CABLE	9
1	1XLC36A	#10 FLAST WASHER	8
12	1XLC30	10-24 NYLOK NUT	7
4	1XLC43	6-32 x 5/8 CSINK PHILLPIS SCREW	6
9	1XLC39	10-24 x 3/4 PHILLIPS SCREW	5
4	1XLC33	6-32 NYLOK NUT	4
1	1XL95	SPRING MOUNT BASE	3
1	1XL94	SPRING MOUNT LID	2
1	1XL19	SPRING	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
CASE LID SPRING ASSEMBLY			



DRAWN M. WARD	11/1/2011	Dive Lab Inc.	
CHECKED R.H. QA	2/9/2012		
MFG		CHASSIS SPRING ASSEMBLY	
APPROVED M.F. WARD	2/9/2012		
		SIZE C	DWG NO 7005
		SCALE	SHEET 1 OF 1

MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858 .X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES
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4 3 2 1



1	1XL61	DUST SEAL ASSEMBLY	5
3	1XLC33	6-32 NYLOK NUT	4
3	1XLC34	6-32 x 1 PHILLIPS SCREW	3
1	1XL61A	GASKET	2
1	1XL61B	FLANGE	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
DUST SEAL CHASSIS			



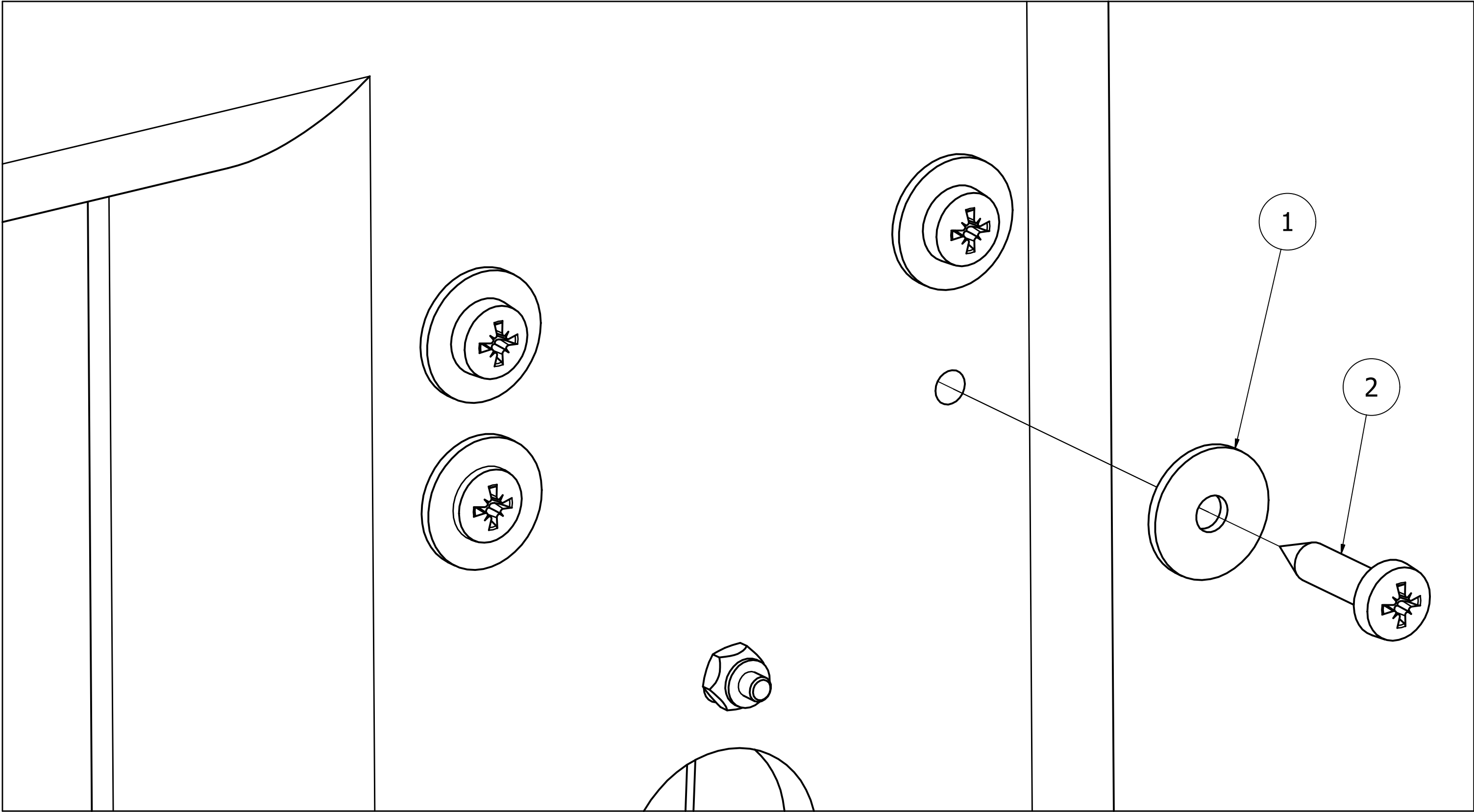
MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
	.X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES

DRAWN M. WARD	11/1/2011
CHECKED R.H. QA	1/27/2012
MFG	
APPROVED M.F. WARD	1/25/2012

Dive Lab Inc.			
TITLE DUST SEAL ASSEMBLY			
SIZE C	DWG NO 7006	REV	
SCALE	SHEET 1 OF 1		

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8	1XLC42	12-14 x 1 PAN HEAD PHILLIPS TAPPING SCREW	2
8	1XLC42A	# 1/4 x 1 FLAT WASHER	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM NO.
HARDIGG CASE HANDLE FASTENERS			

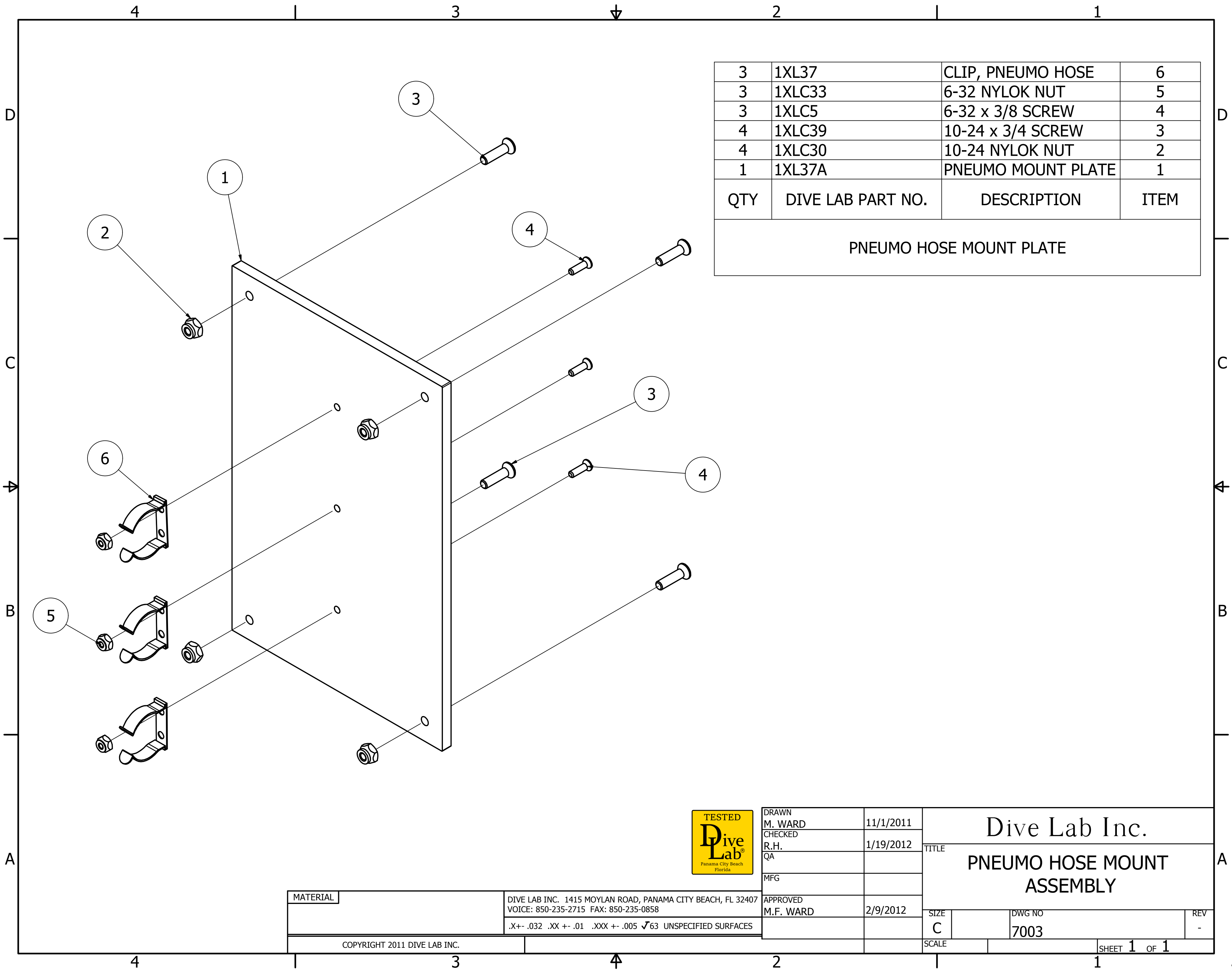


MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
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DRAWN MIKE WARD	11/2/2011
CHECKED R.H. QA	1/27/2012
MFG	
APPROVED M.F. WARD	1/27/2012

Dive Lab Inc.			
TITLE CASE HANDLE FASTENERS			
SIZE C	DWG NO 7007	REV -	
SCALE	SHEET 1 OF 1		



3	1XL37	CLIP, PNEUMO HOSE	6
3	1XLC33	6-32 NYLOK NUT	5
3	1XLC5	6-32 x 3/8 SCREW	4
4	1XLC39	10-24 x 3/4 SCREW	3
4	1XLC30	10-24 NYLOK NUT	2
1	1XL37A	PNEUMO MOUNT PLATE	1
QTY	DIVE LAB PART NO.	DESCRIPTION	ITEM
PNEUMO HOSE MOUNT PLATE			



MATERIAL	DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407 VOICE: 850-235-2715 FAX: 850-235-0858
	.X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES

DRAWN M. WARD	11/1/2011
CHECKED R.H. QA	1/19/2012
MFG	
APPROVED M.F. WARD	2/9/2012

Dive Lab Inc.			
PNEUMO HOSE MOUNT ASSEMBLY			
SIZE C	DWG NO 7003	REV -	
SCALE	SHEET 1 OF 1		

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XLDS 2-D & 3-D RAPID DEPLOYMENT CONSOLE (RDC)

MONTHLY INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.2

NOTICE

This inspection is the minimum recommended maintenance and **should be** performed at least **ONCE A MONTH** on XLDS console(s) used for more than 10 diving days a month, or at least every **TWO (2) MONTHS** with XLDS console(s) used 10 or less diving days a month. This inspection can be used for a pre-mission inspection, as well as, an inspection for equipment, which has been in the storage for over 2 months.

NOTICE

XLDS console(s) being used around polluted waters, or extreme environments, will require more frequent inspection.

NOTICE

During removal of components for inspection, O-rings and other consumable items may be reused, providing they are clean and a visual inspection does not reveal any damage or deterioration.

NOTICE

Check the Dive Lab website for the latest product improvement bulletins concerning the XLDS console(s).

XLDS Console Serial # (s):

Associated Equipment Serial #(s):

XLDS CONSOLE

PROCEDURES	INITIALS
1. Complete a general visual inspection of all XLDS exterior components and console panel box, for signs of damage in the form punctures, broken hinges or hardware. Ensure the spring lid is in proper working order. Note any discrepancies, and repair/replace components as necessary. Clean as necessary. Guidance O & M Manual.	
2. Inspect console umbilical supply and pneumofathometer female QD fittings for wear and damage. Lightly lubricate the O-Ring surface inside the QD. Change fittings and components as necessary if any damage is found. Guidance O & M Manual.	Red _____ Green _____ Yellow _____
3. Visually inspect gauges for obvious signs of damage. Guidance O & M Manual.	Red _____ Green _____ Yellow _____

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Revised May 5, 2020



XLDS 2-D & 3-D RAPID DEPLOYMENT CONSOLE (RDC)

MONTHLY INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.2

XLDS CONSOLE continued	
PROCEDURES	INITIALS
4. Check the LP umbilical shut off valves for smooth operation by opening and closing. Guidance O & M Manual.	ALP-1R _____ ALP-2G _____ ALP-3Y _____
5. Check the LP cross connect valves for smooth operation by opening and closing. Guidance O & M Manual.	XC-1 _____ XC-2 _____
NOTICE	
If LP quarter turn valves do not operate smoothly they must be overhauled. Guidance O & M Manual.	
6. With no pressure on the system, open and close the pneumo valves one full turn to ensure smooth operation. Leave in the closed position.	Red _____ Green _____ Yellow _____
NOTICE	
If pneumo valve(s) do not operate smoothly they must be overhauled or replaced. Guidance O & M Manual.	
5. Inspect HP ZCO-fitting O-rings at each regulator connection point, replace O-rings if worn, damaged or missing.	Red _____ Green _____ Yellow _____
6. Rotate the HP regulator hand wheel clockwise several revolutions to ensure the hand wheel rotates smoothly, then rotate the hand wheel counter clockwise until it spins smoothly. Service any regulators that do not operate smoothly, Guidance O & M Manual.	Red _____ Green _____ Yellow _____
8. Visually inspect the communications unit for signs of obvious damage or contamination. Perform a communications check with each diver's circuit. Charge the battery if necessary. Guidance O & M Manual.	Red _____ Green _____ Yellow _____

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XLDS 2-D & 3-D RAPID DEPLOYMENT CONSOLE (RDC)

MONTHLY INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.2

RDC HP WHIP ASSEMBLIES	
PROCEDURES	INITIALS
NOTICE	
Perform Steps 1 through 3 with no pressure on HP Whip Assemblies.	
1. Inspect the Yokes/Din connectors on each divers HP Assembly, for signs of damage or contamination. Ensure the DIN O-Ring is in place. Ensure dust caps are in good condition. Guidance O & M Manual.	Red _____ Green _____ Yellow _____
2. Visually inspect each divers HP Hose/Manifold Assemblies for signs of damage in the form of corrosion, kinks and fitting slippage. Inspect the ZCO face seal for damage. Ensure protective caps are in good condition. Guidance O & M Manual.	Red _____ Green _____ Yellow _____
3. Check each HP supply valve for smooth operation, by opening and closing each HP Valve. Repair/replace as necessary. Guidance O & M Manual.	HP-1R _____ HP-2R _____ HP-1G _____ HP-2G _____ HP-1Y _____ HP-2Y _____
NOTICE	
If HP valves do not operate smoothly they should be overhauled or replaced. Guidance O & M Manual.	

Technician's Printed Name	Signature	Date
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Comments: (if any)

Dive Lab **highly** recommends that a certified Dive Lab Repair Technician make all repairs and that only genuine Dive Lab repair and replacement parts be used. Owners of Dive Lab products that elect to do their own repairs and inspections should only do so if they possess the knowledge and experience. All inspections, maintenance, and repairs should be completed using the appropriate Dive Lab Operations and Maintenance Manual(s). Persons performing repairs should retain all replacement component receipts for additional proof of maintenance history. Should any questions on procedures, components, or repairs arise, please contact Dive Lab, Inc., by telephone at (850) 235-2715 or via e-mail at divelab@divelab.com



XLDS Intermediate Compensating System (ICS) /Emergency Gas System (EGS) / Harness Assembly

MONTHLY INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.2

NOTICE

This inspection is the minimum recommended maintenance and **should be** performed at least **ONCE A MONTH** with XLDS systems used for more than 10 diving days in a month or at least every **TWO (2) MONTHS**, with systems used 10 or less diving days a month. This inspection can be used for a pre-mission inspection, as well as, an inspection for equipment, which has been in the storage for over 2 months.

NOTICE

ICS being used in polluted waters, or extreme environments, will require more frequent inspection.

NOTICE

During removal of components for inspection, O-rings and other consumable items may be reused, providing they are clean and a visual inspection does not reveal any damage or deterioration.

NOTICE

Check the Dive Lab web site for the latest product improvement bulletins concerning the ICS.

ICS Serial #(s):

Associated Equipment Serial #(s):

ICS & EGS

PROCEDURES	INITIALS
1. Inspect overall condition ICS regulator, check for signs of missing, tearing, deterioration, and/or damage to the regulator. Guidance O & M Manual.	Red _____ Green _____ Yellow _____
2. Unscrew and remove surge cylinder from ICS regulator, conduct a visual inspection on the interior of the on cylinder. Check for corrosion and moisture. Check to ensure there is no traces of aluminum corrosion (aluminum oxide) in the form of white powder, or any signs of contamination and moisture. Clean or replace cylinder if corrosion is present. Inspect cylinder O-ring and lightly lubricate. Replace O-Ring if any damage is present. Re-install cylinder.	Red _____ Green _____ Yellow _____

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Revised May 05, 2020



XLDS Intermediate Compensating System (ICS) /Emergency Gas System (EGS) / Harness Assembly

MONTHLY INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.2

ICS & EGS continued	
PROCEDURES	INITIALS
3. Remove the protective Cap from the ICS Emergency Valve, inspect for signs of damage, contamination, check for smooth operation by rotating the Valve fully open. Leave open.	Red _____ Green _____ Yellow _____
4. Remove the protective Cap from the ICS Umbilical Connection Fitting.	Red _____ Green _____ Yellow _____
5. Using your lips, try drawing air through the ICS Umbilical fitting. No air should be drawn through. Next, try blowing into the fitting. Air should flow easily into the Manifold and exit the Emergency Valve. If the air can be drawn through the fitting, the one-way Valve will need to be rebuilt or replaced. If air cannot be blown through and pass freely out the Emergency Valve, the one-way Valve will need to be overhauled or replaced.	Red _____ Green _____ Yellow _____
6. Upon successful test, shut the EGS Valve by rotating clockwise, and cap if not being used.	Red _____ Green _____ Yellow _____
7. Check the over-bottom setting of the ICS Regulator to ensure it is within the manufacturer's specified pressure range. Minimum over-bottom for the ICS is 150 psig and the maximum 170 psig (11.7 bar). Log the intermediate pressure.	Red _____ Green _____ Yellow _____
NOTICE	
If over bottom pressure is not within range the ICS regulator must be serviced immediately.	
Emergency Gas System (EGS)	
NOTICE	
The Emergency Gas System consists of a good quality First Stage Regulator equipped with a submersible pressure gauge, an Over Pressure Bleed/Relief Valve, and an Emergency Gas Supply Hose that connects to the Emergency Valve on the Side Block/ICS regulator.	



XLDS Intermediate Compensating System (ICS) /Emergency Gas System (EGS) / Harness Assembly

MONTHLY INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.2

Emergency Gas System (EGS) continued	
PROCEDURES	INITIALS
1. Check the hydrostatic date and last visual inspection record (“VIP”) of the cylinder. Ensure date(s) are within the specified range. The VIP is done at least annually and the hydrostatic test is done at least every five years.	Red _____ Green _____ Yellow _____
2. Check the maintenance record of the EGS components to ensure the First Stage Regulator’s maintenance has been performed in accordance with the manufacturer’s recommendations.	Red _____ Green _____ Yellow _____
3. Check all Hoses for signs of blisters, cover slippage, cuts, and/or abrasions. Replace any Hose(s) that show any signs of damage. If a Quick Connect EGS hose is being used, inspect quick connect and fittings for signs of wear/damage. Lightly lubricate the QD Assembly.	Red _____ Green _____ Yellow _____
4. Ensure each the submersible pressure gauge in use, has been compared to a gauge of known accuracy within the past 24 months.	Red _____ Green _____ Yellow _____
5. Lift test the First Stage Bleed/Relief Valve. Valve should be set to lift between 180-200 psig. Guidance per “Appendix 4: Bleed/Relief Valve Cleaning, Inspection, and Overhaul Procedures”.	Red _____ Green _____ Yellow _____
6. Log the lifting pressure_____ psig.	Red _____psig Green _____psig Yellow _____psig
NOTICE	
An adjustable First Stage Regulator and a Gas Cylinder with a minimum of 500 psig (34.5 bar) available are required for this step.	
NOTICE	
The Bleed/Relief Valve should be adjusted to start relieve between 180 - 200 psig (12.4 – 13.8 bar) when tested.	
7. Check the over-bottom setting of the First Stage Regulator to ensure it is within the manufacturer’s specified pressure range. For KMDSI Helmets and Masks, the minimum over-bottom for the emergency supply is 135 psig (9.3 bar) and the maximum 165 psig (11.4 bar). Log the intermediate pressure.	Red _____psig Green _____psig Yellow _____psig



XLDS Intermediate Compensating System (ICS) /Emergency Gas System (EGS) / Harness Assembly

MONTHLY INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.2

ICS & EGS continued	
PROCEDURES	INITIALS
8. Perform a leak check of all EGS components and fittings using soapy water in a pressurized condition. Repair/replace items as necessary.	Red _____ Green _____ Yellow _____
9. If using the Atlantic harness with buoyancy wing, inflate the wing and until firm and allow it to sit for at least 10 minutes to see if the wing loses any pressure. Visually inspect all components for signs of wear and damage.	Red _____ Green _____ Yellow _____
10. Check to ensure the entire ICS & EGS System Manifold/Cylinder Assembly is secure to the Harness back plate Assembly. Inspect harness Assembly for signs of obvious wear and damage. Ensure D-rings and sliders are in place. Repair/replace as necessary.	Red _____ Green _____ Yellow _____

Technician's Printed Name	Signature	Date
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Comments: (if any)

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XLDS LIGHT WEIGHT UMBILICAL

MONTHLY INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.2

NOTICE

This inspection is the minimum recommended, and should be performed at least **ONCE A MONTH** with XLDS umbilical(s) used more than 10 diving days a month or at least every **TWO (2) MONTHS** with XLDS umbilical(s) used 10 or less diving days a month. XLDS umbilical(s) being used in contaminated waters, or extreme environments, especially environments with sharp snag hazards such as metal sheet pile, aircraft or ship wreckage, coral and so forth, may require a daily inspection. This inspection can be used for a pre-mission inspection, as well as, an inspection for equipment, which has been in the storage for over 2 months.

NOTICE

Be safe! Inspecting the umbilical is not difficult and only requires about 30 minutes to accomplish. If any damage is found take pictures and contact Dive Lab Inc for guidance.

NOTICE

Check the Dive Lab website for the latest product improvement bulletins concerning the XLDS umbilical(s).

The above are recommendations are based on keeping and maintaining a good log book on the XLDS umbilical, the use, maintenance and repair record will help in determining how often routine maintenance and overhauls are required.

XLDS Umbilical Serial #(s):	Associated Equipment Serial #(s):
-----------------------------	-----------------------------------

XLDS UMBILICAL & HARDWARE

PROCEDURES	INITIALS
1. Inspect entire hose length (Main Gas, Comm Wire, pneumofathometer) for cuts, abrasions, and any damage that could result in component failure. Ensure hose has an umbilical tag, and the entire assembly has been pressure and flow tested during the last one year. Guidance O & M Manual and Dive Lab Umbilical Test Manifold Manual.	Red _____ Green _____ Yellow _____

NOTICE

Carefully inspect around protective chafing gear for signs of damage. Remove chafing gear, if necessary.

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Revised May 05, 2020



XLDS LIGHT WEIGHT UMBILICAL

MONTHLY INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.2

XLDS UMBILICAL & HARDWARE continued		
PROCEDURES	INITIALS	
2. Inspect umbilical and pneumofathometer male QD fittings, for obvious wear and damage. Change fittings and components as necessary if any damage is found. Guidance O & M Manual.	Red _____	Green _____
	Yellow _____	
3. Inspect communication wire end connections (diver/top side), fittings for wear, fraying and corrosion. Repair/replace as necessary. Guidance O & M Manual.	Red _____	Green _____
	Yellow _____	
4. Perform communications check. Repair/replace as necessary. Guidance O & M Manual.	Red _____	Green _____
	Yellow _____	
NOTICE		
It is very important that all D-rings and seizing materials are present. Refer to umbilical diagram for locations of D-Rings and number of seizing points.		
5. Inspect D-Ring connections on the topside and divers ends. Use 550 Cord/Parachute cord to re-seize if necessary. Guidance O & M Manual.	Red _____	Green _____
	Yellow _____	
6. Purge Pneumofathometer, ensure adequate flow to attain adequate readings on the Pneumofathometer. If blockage is suspected flush hose and retest.	Red _____	Green _____
	Yellow _____	
Technician's Printed Name	Signature	Date

Comments: (if any)

Dive Lab **highly** recommends that a certified Dive Lab Repair Technician make all repairs and that only genuine Dive Lab repair and replacement parts be used. Owners of Dive Lab products that elect to do their own repairs and inspections should only do so if they possess the knowledge and experience. All inspections, maintenance, and repairs should be completed using the appropriate Dive Lab Operations and Maintenance Manual(s). Persons performing repairs should retain all replacement component receipts for additional proof of maintenance history. Should any questions on procedures, components, or repairs arise, please contact Dive Lab, Inc., by telephone at (850) 235-2715 or via e-mail at divelab@divelab.com



XLDS 2-D & 3-D AIR CONTROL CONSOLE (RDC)

ANNUAL INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.1

NOTICE

This inspection and maintenance should be performed **at least annually** and as dictated by condition revealed during daily/monthly inspection. Monthly inspections reveal the necessity for corrective maintenance or system overhaul, with more accuracy than simply a number of hours of use. For the above reasons, the final decision for overhauling the XLDS control console is determined by the end user.

NOTICE

The Annual inspection procedure is intended to be used as a guide for persons that have received factory authorized training in the maintenance and repair of the Dive Lab surface support air control consoles and subsystems of the XLDS system. For best results complete the check list in order.

NOTICE

XLDS consoles being used in extremely dirty, or extreme environments, will require more frequent inspection.

Check the Dive Lab web site for the latest product improvement bulletins concerning the XLDS CONSOLE.

XLDS Console Serial #:

Associated Equipment Serial #(s):

XLDS RAPID DEPLOYMENT CONSOLE (RDC-3)

PROCEDURES

INITIALS

1. Complete DIVE LAB XLDS 2-D or 3-D Rapid Deployment Console (RDC) **Monthly Inspection & Maintenance Checklist** Appendix A2.2. Guidance O & M Manual.

XLDS SYSTEM PRESSURE GAUGE COMPARRISON

2. Ensure all RDC gauges have been compared within the past 24 months and has been documented on XLDS Pressure Gauge Comparison Forms. Guidance O & M Manual.

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Revised June 18, 2019



XLDS 2-D & 3-D AIR CONTROL CONSOLE (RDC)

ANNUAL INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.1

XLDS SYSTEM PRESSURE GAUGE COMPARRISON continued	
PROCEDURES	INITIALS
3. XLDS <u>Pneumofathometer</u> Gauges Date of last comparison: _____	Red _____ Green _____ Yellow _____
4. RDC <u>High</u> Pressure Gauges / every 24 months Date of last comparison: _____	Red _____ Green _____ Yellow _____
5. RDC <u>Low</u> Pressure Gauges / every 24 months Date of last comparison: _____	Red _____ Green _____ Yellow _____
XLDS Annual Relief Valve Lift Check	
The relief valves should be checked every 12 months to ensure that they start relieving at a pressure of 390-400 psig as read on each of the diver LP gauges. Early RDC's (pre-2011) used brass Circle Seal® relief valves. XLDS systems after 2011 all have stainless steel HyLock® angle relief valve. Both models adjust in a similar fashion. Lift testing the reliefs will not damage the system and can be done on a routine basis if desired. To test the reliefs complete steps below:	
6. Attach the HP supply to the circuits being tested. Slowly bring up pressure to the manifold by rotating the regulator adjustment knob clockwise (in), until the LP gauge reads the desired relief pressure setting.	Red _____ Green _____ Yellow _____
7. Brass Circle Seal Relief: Check set pressure of relief valve in accordance with O&M Manual overhaul procedure.	Red _____ psig Green _____ psig Yellow _____ psig
8. Stainless Hylock® Relief: Check set pressure of relief valve in accordance with O&M Manual overhaul procedure.	Red _____ psig Green _____ psig Yellow _____ psig

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Revised June 18, 2019



RDC System Pressure Test

Technician's Printed Name	Signature	Date
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NOTE: Dive Lab **highly** recommends that a certified Dive Lab trained repair technician make all repairs and that only genuine Dive Lab repair and replacement parts be used. Owners of Dive Lab products that elect to do their own repairs and inspections should only do so if they possess the knowledge and experience. All inspections, maintenance, and repairs should be completed using the appropriate Dive Lab Operations and Maintenance Manual(s). Persons performing repairs should retain all replacement component receipts for additional proof of maintenance history. Should any questions on procedures, components, or repairs arise, please contact Dive Lab, Inc., by telephone at (850) 235-2715 or via e-mail at divelab@divelab.com



XLDS Intermediate Compensating System (ICS) / Emergency Gas System (EGS) / Harness Assembly ANNUAL INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.1

NOTICE

This inspection and maintenance should be performed at least annually and as dictated by condition revealed during daily/monthly inspection. Monthly inspections determine necessity for overhaul with more accuracy than simply placing a number of hours of use.

NOTICE

XLDS ICS units being used around polluted waters, or extreme environments, will require more frequent inspection.

NOTICE

During removal of components for inspection, O-rings and other consumable items may be reused, providing they are clean and a visual inspection does not reveal any damage or deterioration.

NOTICE

Check the Dive Lab web site for the latest product improvement bulletins concerning the ICS.

ICS Serial (s) #:

Associated Equipment Serial #(s):

ICS / EGS / Harness Assembly

PROCEDURES	INITIALS
1. Complete Dive Lab XLDS Intermediate Compensating System (ICS) /Emergency Gas System (EGS) / Harness Assembly Monthly Inspection & Maintenance Checklist Form Appendix A2.2. Guidance O & M Manual.	Red _____ Green _____ Yellow _____
With NO air pressure on the ICS, perform an inspection of ICS Spring Cavity for proper amount of grease and inspect for dirt and corrosion. If the cavity is not properly filled with silicone grease, re-pack is necessary. If dirt and corrosion is present disassemble and clean as necessary. Guidance O & M Manual.	
2. Remove ICS rubber boot, then loosen and remove the piston cap (set aside).	Red _____ Green _____ Yellow _____



XLDS Intermediate Compensating System (ICS) /
Emergency Gas System (EGS) / Harness Assembly
ANNUAL INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.1

ICS / EGS / Harness Assembly	
PROCEDURES	INITIALS
3. Remove the poppet spring assembly. Inspect for dirt and contamination. If silicone grease shows dirt or contamination, disassemble poppet assembly. Clean re-assemble and install new silicone grease. Guidance O&M Manual.	
4. Ensure the spring and poppet assembly if fully greased. Then carefully re-install the poppet / Spring Assembly, making sure that the white O-ring gets properly seated in the regulator body. Guidance O & M Manual.	Red _____ Green _____ Yellow _____
5. Load the Piston cap (17) on to the Poppet and spring assembly. Engage the threads and thread the cap all the way down and tighten to 150 inch lbs. Install the boot. Guidance O & M Manual.	Red _____ Green _____ Yellow _____
6. Perform an intermediate pressure check by installing the intermediate pressure gauge to the end of the outlet whip of the ICS. Intermediate pressure should be between 150-170 psig. Guidance O & M Manual.	Red _____ Green _____ Yellow _____
ICS / EGS / Harness Assembly	
PROCEDURES	INITIALS
7a. Upon successful completion of Step 7 perform a flow test. Record the following. ICS Serial Number _____ Flow Meter Serial # _____ Room temperature _____ °F LP supply set pressure _____ psig (350 psig) HP supply pressure _____ psig (minimum of 1000 psig prior to start of flow) Guidance O & M Manual.	
7b. Upon successful completion of Step 7 perform a flow test. Record the following. ICS Serial Number _____ Room temperature _____ °F LP supply set pressure _____ psig (350 psig) HP supply pressure _____ psig (minimum of 1000 psig prior to start of flow) Guidance O & M Manual.	
7c. Upon successful completion of Step 7 perform a flow test. Record the following. ICS Serial Number _____ Room temperature _____ °F LP supply set pressure _____ psig (350 psig) HP supply pressure _____ psig (minimum of 1000 psig prior to start of flow) Guidance O & M Manual.	



XLDS Intermediate Compensating System (ICS) / Emergency Gas System (EGS) / Harness Assembly ANNUAL INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.1

ICS 300 psig Intermediate Test Gauge Comparison

The ICS Intermediate Pressure Gauge is a 0-300 psig gage that has a full-scale accuracy of 3% or less. This means the maximum error could be up to 9 psig over the full scale. However, in most cases these model gages are rarely more than two to three psig off in the 100-200 psig range.

8. Compare the ICS Intermediate Test Gauge at least once every 24 months
Intermediate Pressure Gauge Serial # _____
Date of last comparison _____
Document **XLDS Intermediate Pressure Gauge Comparison Form**

Submersible Pressure Gauges Comparison

Submersible pressure gages used with the EGS system should be compared to a gage of known accuracy at least once every 24 months or whenever accuracy is in question. The gages should be compared to a test gage having an accuracy of at least 0.25% full scale. Allowable error for the submersible gages is no more than 3% full scale. For a 5000 psig gage this would be + or – 150 psig.

9. Compare the Submersible Test Gauge at least once every 24 months
Submersible Pressure Gauge Serial # 1. _____
Submersible Pressure Gauge Serial # 2. _____
Submersible Pressure Gauge Serial # 3. _____
Date of last comparison _____
Document **EGS Submersible Pressure Gauge Comparison Form**

10. Ensure EGS 1st Stage Regulators Maintenance has been performed in accordance with the manufacturers recommendations.

Technician's Printed Name	Signature	Date
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Comments: (if any)

Dive Lab **highly** recommends that a certified Dive Lab Repair Technician make all repairs and that only genuine Dive Lab repair and replacement parts be used. Owners of Dive Lab products that elect to do their own repairs and inspections should only do so if they possess the knowledge and experience. All inspections, maintenance, and repairs should be completed using the appropriate Dive Lab Operations and Maintenance Manual(s). Persons performing repairs should retain all replacement component receipts for additional proof of maintenance history. Should any questions on procedures, components, or repairs arise, please contact Dive Lab, Inc., by telephone at (850) 235-2715 or via e-mail at divelab@divelab.com



XLDS LIGHT WEIGHT UMBILICAL

ANNUAL TEST INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.1

NOTICE

This inspection and maintenance should be performed at least annually and as dictated by condition revealed during daily/monthly inspection. Monthly inspections determine necessity for overhaul with more accuracy than simply placing a number of hours of use.

NOTICE

XLDS umbilicals being used around polluted waters, or extreme environments, will require more frequent inspection.

If umbilical contamination is suspected, the umbilical will have to be cleaned/flushed with suitable cleaning solution & dry using diver's air. Guidance O & M Manual.

NOTICE

Check the Dive Lab web site for the latest product improvement bulletins concerning the XLDS Umbilical.

XLDS Umbilical Serial #:	Associated Equipment Serial #(s):
--------------------------	-----------------------------------

XLDS UMBILICAL & HARDWARE

PROCEDURES	INITIALS
1. Complete <u>Dive Lab XLDS Light Weight Umbilical Monthly Inspection & Maintenance Checklist Form</u> Appendix A2.2. Guidance O & M Manual.	Red _____ Green _____ Yellow _____
2. Pressure test to 800 psi for 10 minutes. Document using <u>Umbilical Pressure Leak Test Form</u> in accordance with O & M Manual / Umbilical Test Manual.	Red _____ Green _____ Yellow _____
NOTICE	
It is very important that all D-rings and seizing materials are present and in serviceable condition. Refer to umbilical diagram for locations of D-Rings and number of seizing points.	
3. Complete a flow test of the umbilical using a HP supply pressure of at least 1000 psig to the console. Set console regulator to 350 psig. The flow at the divers end should be a minimum of 670 LPM. Guidance O & M Manual / Umbilical Test Manual.	Red _____ Green _____ Yellow _____

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Revised August 20, 2019



XLDS LIGHT WEIGHT UMBILICAL

ANNUAL TEST INSPECTION & MAINTENANCE CHECKLIST

APPENDIX A2.1

XLDS UMBILICAL & HARDWARE continued	
PROCEDURES	INITIALS
4. Purge Pneumofathometer, ensure adequate flow to attain accurate readings on the Pneumofathometer. If blockage is detected flush hose and retest.	Red _____ Green _____ Yellow _____

Technician's Printed Name	Signature	Date
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Comments: (if any)

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Revised August 20, 2019



CERTIFICATION SHEET

XLDS Rapid Deployment Console Annual Pressure / Joint Tightness Test/Checklist

(Appendix A2.1A)

This test should be done annually, and/or anytime the system has been overhauled or repaired, or the integrity of the system is in question. Joint tightness and pressure testing of the XLDS Rapid Deployment Console (RDC), high and low pressure components, includes all mechanical assemblies from the outlet of the regulators, to the outlet of the umbilical supply ends, of each diver circuits. Testing should be done using divers air, or high purity nitrogen. The high pressure test used, should be no less than 3000 psig, for “A” yoke use, and a maximum pressure of 3500 psig. For DIN a maximum of 4350 psig, and up to 5000 psig, with other properly rated fittings. The low pressure components and circuits, should be tested with a supply between 350-400 psig. Test time is a minimum of (10) minutes, with zero leakage allowed, as shown on the system pressure gauges. This test procedure is intended as a User/Owner test, for trained users, and should be done anytime, hi or low pressure components have been repaired, changed, disturbed, or whenever gas tight integrity is in question. This testing should be performed using the sequence, and steps in this procedure. This procedure can be used for both, the three diver and two diver RDC’s. If other configurations of HP supply are being used, endeavor to test in the same manner, and to the same extent, as what is in this procedure. This procedure should be used on the XLDS, at least once per year, and /or anytime system integrity is in question. Questions and guidance can be addressed to Dive Lab Inc. via email, www.divelab.com or call us at 850-235-2715.



CERTIFICATION SHEET

XLDS Rapid Deployment Console Annual Pressure / Joint Tightness Test/Checklist

(Appendix A2.1A)

System Serial #	Name of Agency /Owner
-----------------	-----------------------

1. Tools & Components Required

1. 11/16 open end wrench
2. 9/16 open end wrench
3. 3/4" open end wrench
4. 7/16 open end wrench
5. 8" adjustable wrench
6. Clean regulated source of Diver air or high purity nitrogen
7. Solution of detergent and water (O&M manual)
8. Torque wrench 0-250 inch lbs.
9. 7/16 open end socket 1/4" drive

2. Pre-Test Requirements:

INITIALS

NOTICE

Prior to testing, perform the following steps below. Ensure there is no HP supply pressure up to the divers' circuits.

1. Back out on the diver regulators hand wheels.

Red _____
Green _____
Yellow _____

2. Remove the caps from ALP-1R, ALP-1G, ALP-1Y.

ALP-1R _____
ALP-1G _____
ALP-1Y _____

3. Slowly open ALP-1R, ALP-1G, ALP-1Y and ensure all pressure is vented, then shut.

ALP-1R _____
ALP-1G _____
ALP-1Y _____

4. Ensure cross connect valves are closed.

XC-1 _____
XC-2 _____

5. Ensure pneumo valves are closed.

Red _____
Green _____
Yellow _____



CERTIFICATION SHEET

XLDS Rapid Deployment Console Annual Pressure / Joint Tightness Test/Checklist

(Appendix A2.1A)

2. Pre-Test Requirements: continued	INITIALS
NOTICE	
For ease of testing, the testing should start with Green Diver's circuit, this allows testing of XC-1 and XC-2.	
NOTICE	
During pressure tests if any loss of pressure is observed, locate the source of the leak using a solution of detergent and water then secure the HP source, vent the system, and perform repairs then retest as necessary.	
3. Pressure Testing Green Diver <u>High Pressure</u> Circuit	
WARNING	
When using Yoke assemblies do not exceed 3500 psig. When using DIN fittings do not exceed 4350 psig. Using the wrong fittings or fittings and components not rated for the pressure being used could result in serious injury or death.	
1. Attach Green Divers HP whip to Green Divers HP inlet on the console.	
2. Attach both HP-1G and HP-2G short whips DIN/Yoke assemblies to a pressure source of at least 3000 psig or to the HP supply pressure to be used up to 3500 psig for "A" Yokes and up to 4350 psig for DIN or up to 5000 psig if other properly rated fittings are being used. Ensure bleed screw is closed. Remarks:	
3. Rotate in on the hand loader until tension is felt, usually 4-5 turns.	
4. With both HP-1G and HP-2G valves closed, slowly open cylinder valves to HP-1G and HP-2G and allow the system to sit for at least 10 minutes. If there is any leakage through HP-1G and HP-2G it will show up on the Green Diver's LP gauge.	Start Time _____ Stop Time _____ Start Pressure _____ Stop Pressure _____ ☐ Pass ☐ Fail
5. Upon successful test above, back out on the regulator until it spins freely.	



CERTIFICATION SHEET

XLDS Rapid Deployment Console Annual Pressure / Joint Tightness Test/Checklist

(Appendix A2.1A)

3. Pressure Testing Green Diver <u>High Pressure</u> Circuit		INITIALS
continued		
6. Slowly open both HP-1G and HP-2G and bring up pressure to Green Diver's HP pressure gauge. Allow the pressure to stabilize for one - two minutes then shut HP-1G and HP-2G and log the time and pressure. Start the ten-minute test time. There should be no loss of pressure at the end of 10 minutes. Remarks:	Start Time _____ Stop Time _____ Start Pressure _____ Stop Pressure _____ ☐ Pass ☐ Fail	
4. Pressure Testing Green Diver <u>Low Pressure</u> Circuit		
NOTICE		
This procedure tests the entire circuit for Green Diver's as well as the Red and Yellow supply sides of the cross connect valves XC-1 and XC-2.		
1. Ensure you have a minimum of 1000 psig to HP inlet pressure.		
2. Load Green Diver's regulator until the LP gauge reads 375 psig.		
3. Allow the pressure to stabilize for 1-2 minutes then quickly back off Green Diver's hand loader and vent the hand loader. The one-way valve should shut and lock the LP pressure, log the pressure. The minimum test time is 10 minutes. Minimum test pressure is 350 psig. Remarks:	_____psig Start Time _____ Stop Time _____ Start Pressure _____ Stop Pressure _____ ☐ Pass ☐ Fail	
4. Upon successful test, vent all pressure from Green Diver's circuit.		
5. Pressure Testing Red Diver <u>High Pressure</u> Circuit		
WARNING		
When using Yoke assemblies do not exceed 3500 psig. When using DIN fittings do not exceed 4350 psig. Using the wrong fittings or fittings and components not rated for the pressure being used could result in serious injury or death.		
1. Attach Red Diver's HP whip to Red Diver's HP inlet on the console.		
2. Attach both HP-1R and HP-2R short whips DIN/Yoke assemblies to a pressure source of at least 3000 psig or to the HP supply pressure to be used up to 3500 psig for "A" Yokes and up to 4350 psig for DIN or up to 5000 psig if other properly rated fittings are being used. Ensure bleed screw is close. Remarks:		



CERTIFICATION SHEET

XLDS Rapid Deployment Console Annual Pressure / Joint Tightness Test/Checklist

(Appendix A2.1A)

5. Pressure Testing Red Diver <u>High Pressure</u> Circuit continued	INITIALS
3. Rotate in on the hand loader until tension is felt, usually 4-5 turns.	
4. With both HP-1R and HP-2R valves closed, slowly open cylinder valves to HP-1R and HP-2R and allow the system to sit for at least 10 minutes. If there is any leakage through HP-1R and HP-2R it will show up on the Red Diver's LP gauge.	Start Time _____ Stop Time _____ Start Pressure _____ Stop Pressure _____ ☐ Pass ☐ Fail
5. Upon successful test above, back out on the regulator until it spins freely.	
6. Slowly open both HP-1R and HP-2R and bring up pressure to Red Diver's HP pressure gauge. Allow the full test pressure to stabilize for one - two minutes, then shut HP-1R and HP-2R and log the time and pressure. Start the ten-minute test time. There should be no loss of pressure at the end of 10 minutes. Upon successful completion of Step 6, proceed to low pressure testing. Remarks:	Start Time _____ Stop Time _____ Start Pressure _____ Stop Pressure _____ ☐ Pass ☐ Fail
6. Pressure Testing Red Diver <u>Low Pressure</u> Circuit	
NOTICE	
This test tests the entire Red Diver's circuit from the inlet side of the one way valve to the out valve ALP-1R and the cross connect XC-1 feeding Green Diver's circuit.	
1. Ensure you have a minimum of 1000 psig supply to HP inlet pressure.	
2. Load Red Diver regulator until Red Diver's low pressure gauge reads 375 psig.	
3. Allow the pressure to stabilize for 1-2 minutes then quickly back off Red Diver's hand loader and vent the hand loader. The one-way valve should shut, and there should be a minimum of 350 psig on Red Diver's LP gauge. Record the start time and start pressure. The minimum test time is 10 minutes. Minimum test pressure is 350 psig.	Start Time _____ Stop Time _____ Start Pressure _____ Stop Pressure _____ ☐ Pass ☐ Fail
4. If any loss of pressure is observed, locate the source of the leak using a solution of detergent and water then secure the HP source, vent the system, and perform repairs. Retest as necessary.	
5. Upon successful test, vent all pressure from Red Diver's circuit.	



CERTIFICATION SHEET

XLDS Rapid Deployment Console Annual Pressure / Joint Tightness Test/Checklist

(Appendix A2.1A)

7. Pressure Testing Yellow Diver <u>High Pressure</u> Circuit	INITIALS
WARNING	
When using Yoke assemblies do not exceed 3500 psig. When using DIN fittings do not exceed 4350 psig. Using the wrong fittings or fittings and components not rated for the pressure being used could result in serious injury or death.	
1. Attach Yellow Diver's HP whip to Yellow Diver's HP inlet on the console.	
2. Attach both HP-1Y and HP-2Y short whips DIN/Yoke assemblies to a pressure source of at least 3000 psig or to the HP supply pressure to be used up to 3500 psig for "A" Yokes and up to 4350 psig for DIN or up to 5000 psig if other properly rated fittings are being used. Ensure bleed screw is closed. Remarks:	
3. Rotate in on the hand loader until tension is felt, usually 4-5 turns.	
4. With both HP-1Y and HP-2Y valves closed, slowly open cylinder valves to HP-1Y and HP-2Y and allow the system to sit for at least 10 minutes. If there is any leakage through HP-1Y and HP-2Y it will show up on the Yellow Divers LP gauge.	Start Time _____ Stop Time _____ Start Pressure _____ Stop Pressure _____ ☐ Pass ☐ Fail
5. Upon successful test above, back out on the regulator until it spins freely.	
6. Slowly open both HP-1Y and HP-2Y and bring up pressure to Yellow Diver's HP pressure gauge. Allow the pressure to stabilize for one - two minutes then shut HP-1Y and HP-2Y and log the time and pressure. Start the ten-minute test time. There should be no loss of pressure at the end of 10 minutes. Remarks:	Start Time _____ Stop Time _____ Start Pressure _____ Stop Pressure _____ ☐ Pass ☐ Fail



CERTIFICATION SHEET

XLDS Rapid Deployment Console Annual Pressure / Joint Tightness Test/Checklist

(Appendix A2.1A)

8. Pressure Testing Yellow Diver <u>Low Pressure</u> Circuit	INITIALS
NOTICE	
This test tests the entire Yellow Diver circuit from the inlet side of the one way valve to the out valve ALP-1Y and the cross connect XC-2 feeding Yellow Diver's circuit.	
1. Ensure you have a minimum of 1000 psig supply to HP inlet pressure.	
2. Load Yellow diver's regulator until the LP gauge reads 375 psig.	
3. Allow the pressure to stabilize for 2-3 minutes then quickly back off the hand loader and vent the hand loader to zero psig. The one-way valve should shut and there should be a minimum of 350 psig on Yellow Diver's LP gauge. Record the start time and start pressure. The minimum test time is 10 minutes. Minimum test pressure is 350 psig.	Start Time _____ Stop Time _____ Start Pressure _____ Stop Pressure _____ ☐ Pass ☐ Fail
4. Upon successful pressure test, vent all pressure from Yellow Diver's circuit.	
5. Upon successful test of all circuits, vent all pressure from the system. Cap all inlet and outlet fittings and insure all valves are shut. Note any discrepancies. Remarks:	

Comments: (if any)

Technician's Name (printed)	Signature	Date

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CERTIFICATION SHEET

EGS Submersable Pressure Gauge Comparison

Gauge Range: 0 - 5000 psig	Stated Accuracy: 2.5%
----------------------------	-----------------------

Test Gauge SN#	Date last compared

HP	RED	GREEN	YELLOW
500			
1000			
1500			
2000			
2500			
3000			
3500			
4000			
4500			

Remarks:

Print Name	Signature	Date



CERTIFICATION SHEET

XLDS Intermediate Pressure Gauge Comparison

Test Gauge Used Make/Model	Serial Number	Range	Stated Accuracy	Last Certified

Gage Being Tested Make/Model	Serial Number	Range	Stated Accuracy

Master Gauge Reading	Gauge Under Comparison Indicated Value ↓	Gauge Under Comparison Indicated Value ↑	Remarks
100			
125			
150			
175			
200			
225			
250			
275			

Print Name	Signature	Date



CERTIFICATION SHEET

Umbilical Pressure Leak Test

Umbilical Serial#	System Component Part Description /Identification

Purpose of Tests
Annual / Routine Pressure Test, as well as visual inspection of umbilical for cuts, slices, bulges, fitting slippage, excessive wear, signs of kinking, and any other signs of damage or deformity.

Maximum Designed System Pressure	Maximum Normal Working Pressure
psig	psig

Test Pressure Used	Test time Used	Test Media Used
psig		☐ Water ☐ Divers Air ☐ N2 ☐ Other

Test 1	Test 2
Start Time_____ Start Pressure_____	Start Time_____ Start Pressure_____
Stop Time_____ Stop Pressure_____	Stop Time_____ Stop Pressure_____
☐ Pass ☐ Fail	☐ Pass ☐ Fail

Remarks (if any)

Print Name	Signature	Date