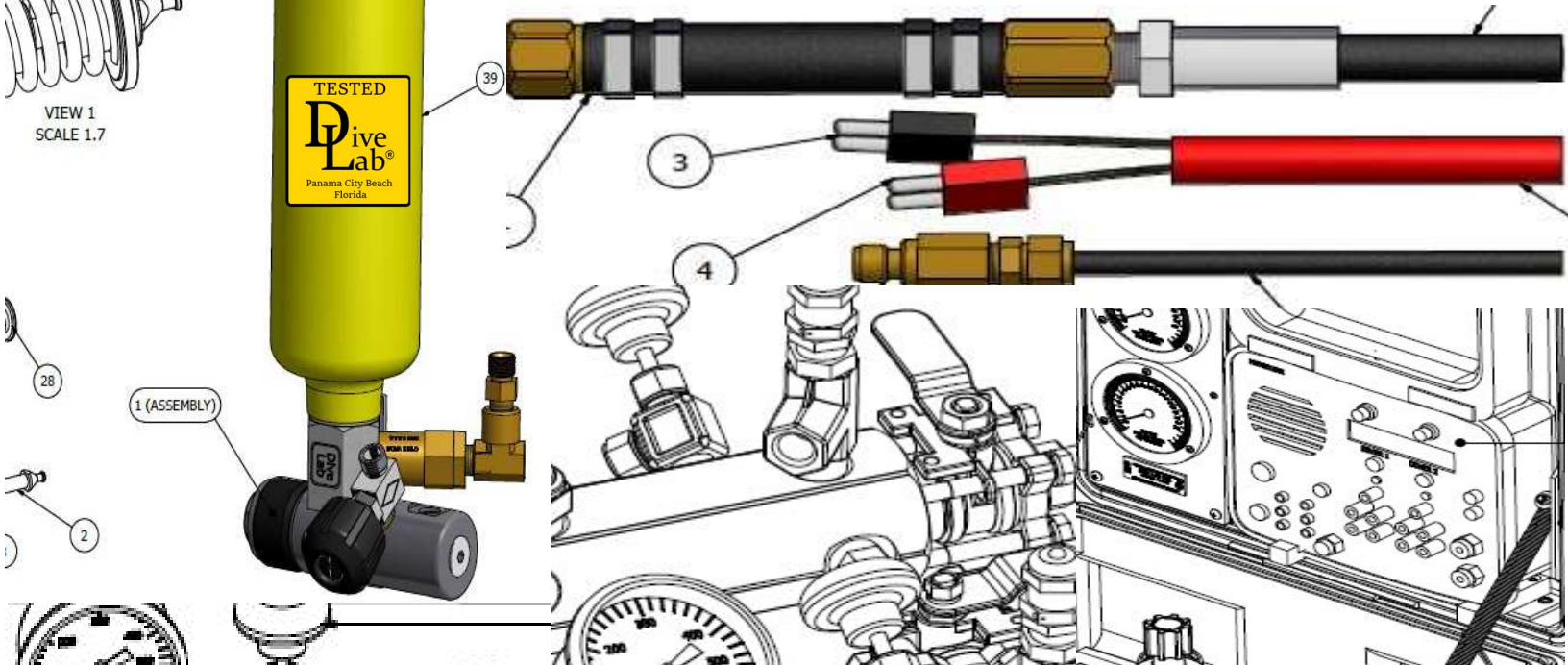
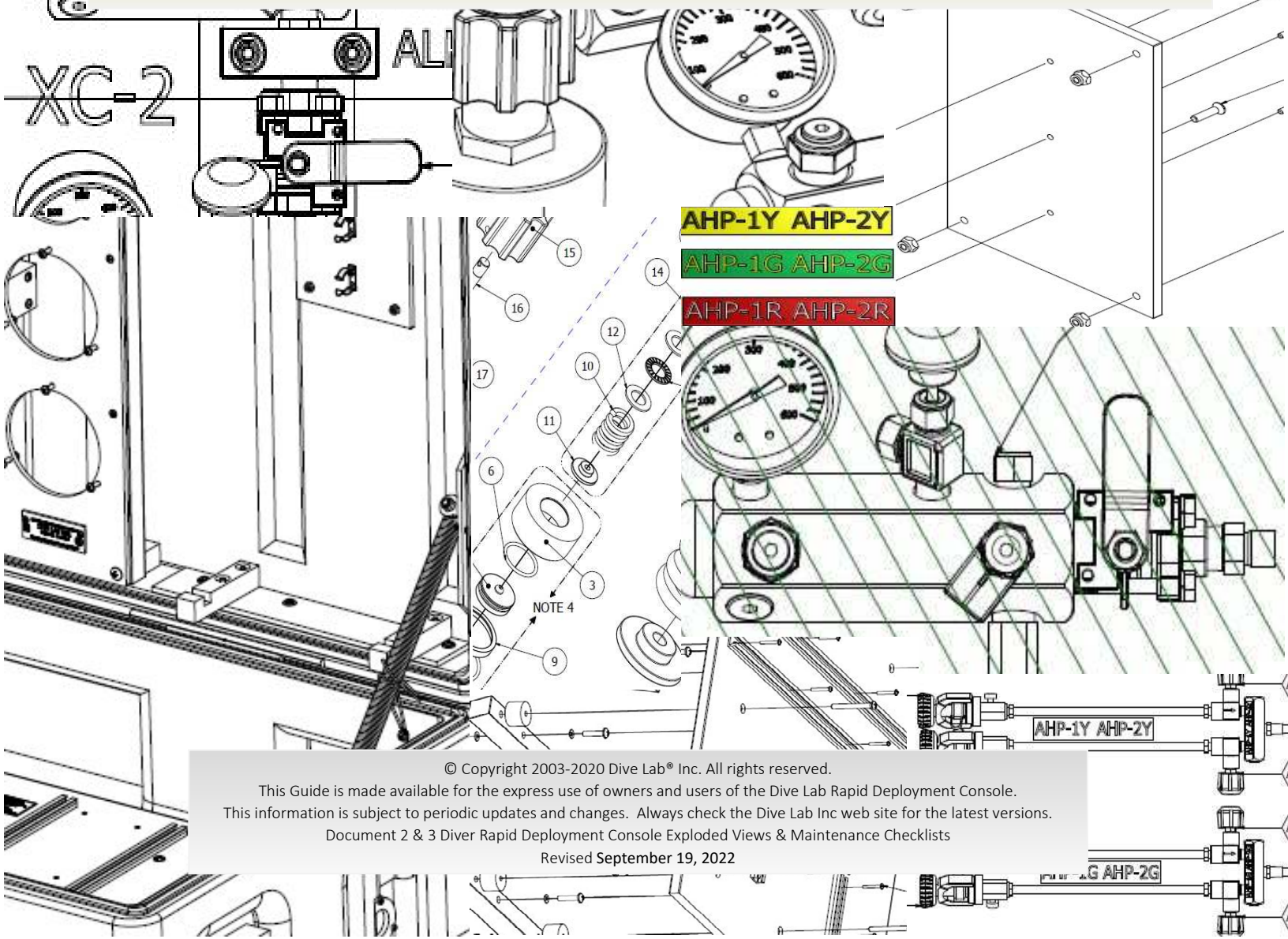




# 2 & 3 Diver Rapid Deployment Console

## Exploded Views & Maintenance Checklists



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Revised September 19, 2022

# 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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\*\*May not be included in manual depending on system options

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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

HIGH PRESSURE ZONE

LOW PRESSURE ZONE

HIGH PRESSURE ZONE

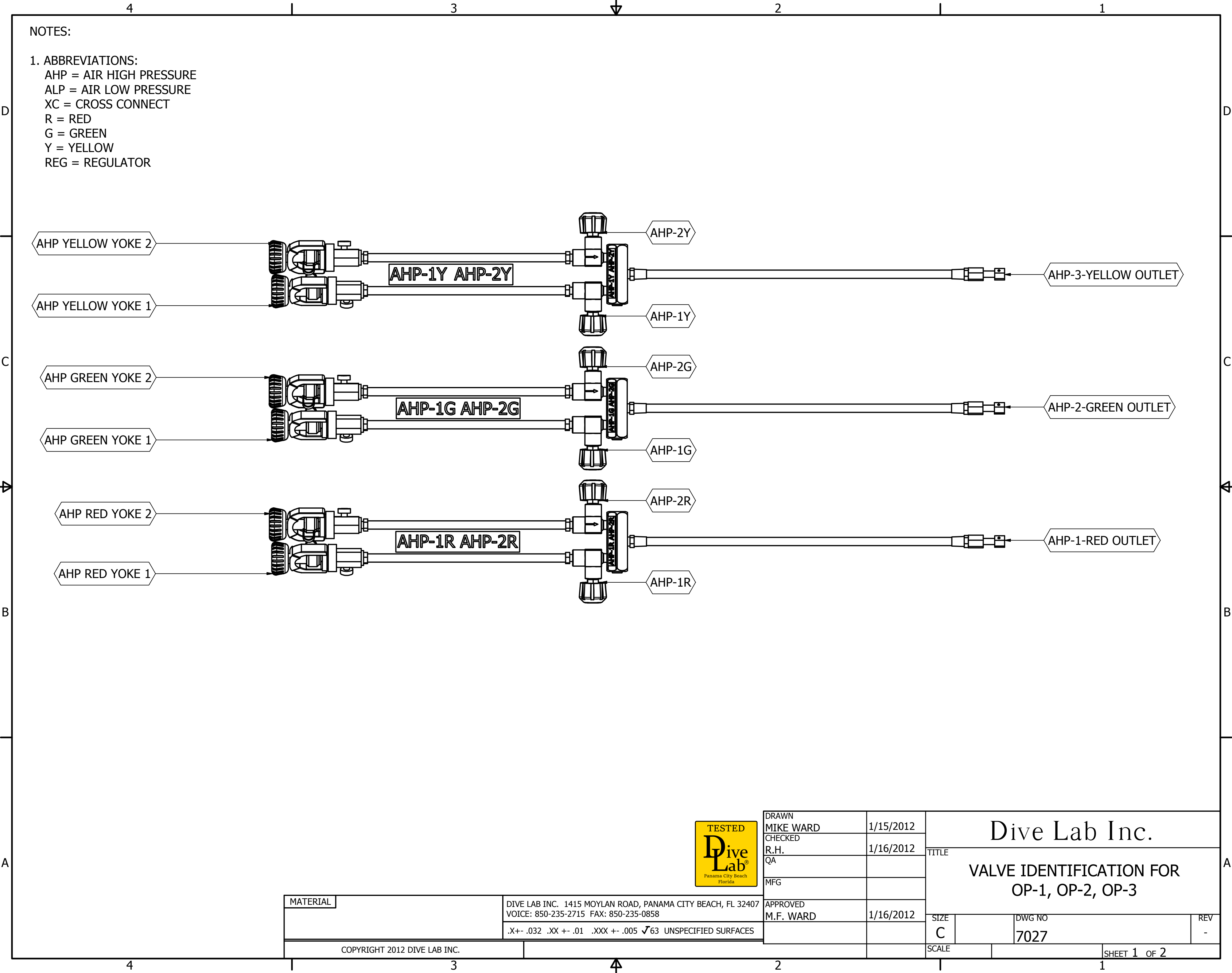
LOW PRESSURE ZONE

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



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

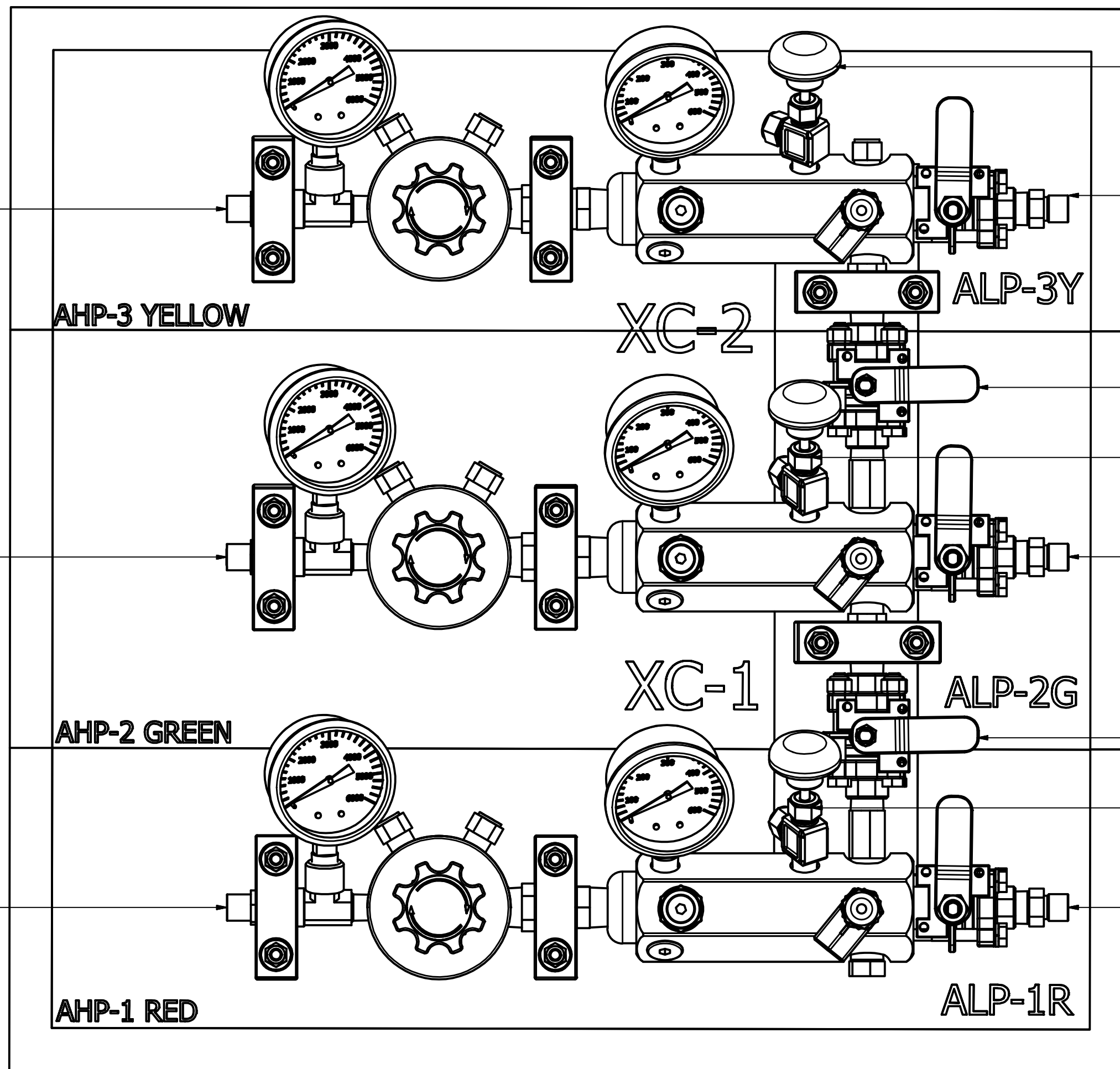
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|----------------------------------------------|---|--------|-------|
| Dive Lab Inc.                                |   |        |       |
| TITLE                                        |   |        |       |
| VALVE IDENTIFICATION FOR<br>OP-1, OP-2,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

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

YELLOW ALP-6 (PNEUMO)

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

AHP-3 YELLOW

XC-2

ALP-3Y

CROSS CONNECT-2 (XC-2)

GREEN ALP-5 (PNEUMO)

AIR HIGH PRESUURE GREEN (HP REG 2)

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

AHP-2 GREEN

XC-1

ALP-2G

CROSS CONNECT-1 (XC-1)

RED ALP-4 (PNEUMO)

AIR HIGH PRESSURE RED (HP REG 1)

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

AHP-1 RED

ALP-1R



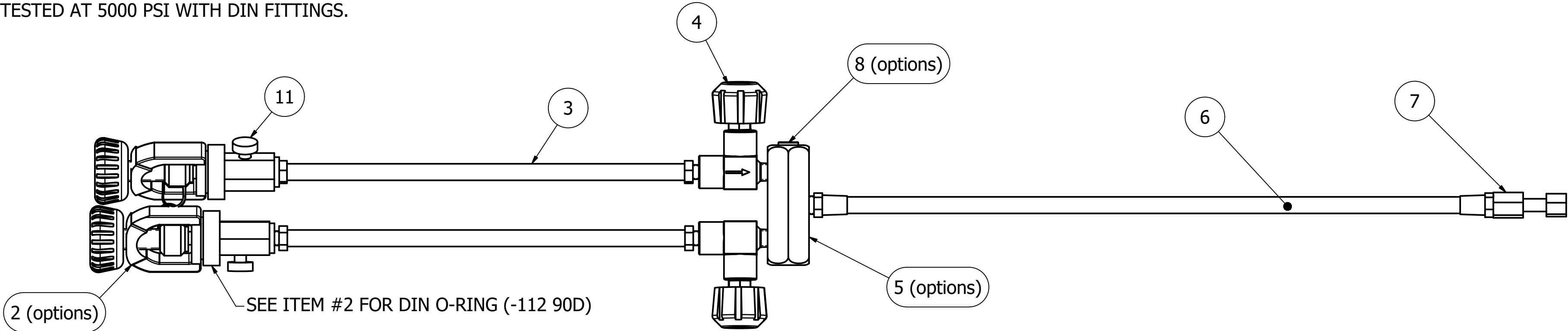
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| DRAWN    | MIKE WARD | 1/15/2012 |
| CHECKED  | R.H. QA   | 1/16/2012 |
| MFG      |           |           |
| APPROVED | M.F. WARD | 1/16/2012 |

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

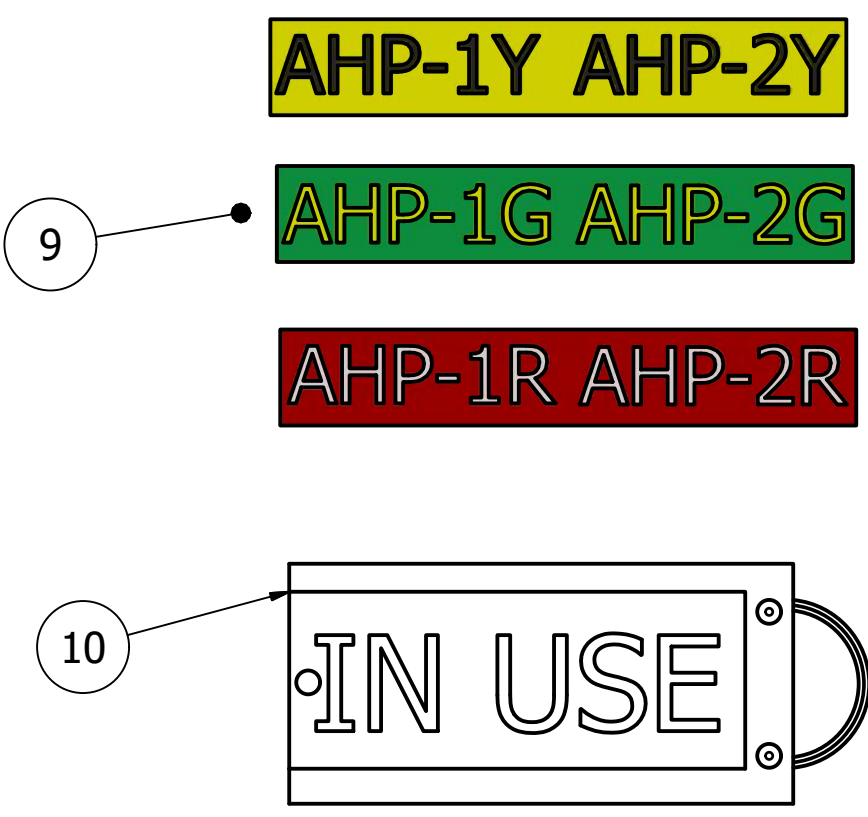
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1. OPTIONS AVAILABLE. SEE TABLE TO DETERMINE CORRECT PART FOR YOUR SYSTEM
2. NEW HOSES ARE PROOF TESTED TO 7500 PSI. COMPLETE ASSEMBLY LEAK TESTED AT 5000 PSI WITH DIN FITTINGS.



|                                                 |                                      |                                                                                                     |         |
|-------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------|---------|
| -                                               | 3XL29E<br>3XL29F                     | A YOKE & DIN YOKE BLEED KNOB (FOR XS SCUBA YOKES)<br>A YOKE BLEED KNOB (FOR SHERWOOD A YOKES)       | 11      |
| 1                                               | 3XL43                                | IN USE TAG COMPLETE                                                                                 | 10      |
| -                                               | 3XL42                                | IN USE TAG PLATE (ABS PLASTIC)                                                                      |         |
| -                                               | 3XL41                                | DECAL, IN USE                                                                                       |         |
| 1ea                                             | 3XL40R<br>3XL40G<br>3XL40Y           | DECAL, AHP-1 RED<br>DECAL,AHP-2 GREEN<br>DECAL,AHP-3 YELLOW                                         | 9       |
| 1                                               | 3XL15                                | PLUG HIGH PRESSURE 7/16-20 UNF                                                                      | 8       |
| 1                                               | 0XL01290                             | -012 O-RING 90 DUROMETER (PN#0XL01290)<br>(OPTIONAL 1/4" MNPT PLUG 1XL15B)                          |         |
| -                                               |                                      |                                                                                                     |         |
| 1                                               | 3XL100                               | FITTING, .25 MNPT - 9/16-18 UNF ZCO                                                                 | 7       |
| 1                                               | 3XL87                                | HIGH PRESSURE WHIP,S.S. BRAIDED 72" 1/4 MNPT x VCO<br>9/16-18 UNF                                   | 6       |
| 1                                               | 3XL25                                | HIGH PRESSURE JUNCTION BLOCK, 1/4" FNPT, 7/16-20 UNF ST<br>O-RING PORT (STANDARD)                   | 5       |
|                                                 | 3XL25-2                              | HIGH PRESSURE JUNCTION BLOCK, DOUBLE PORT 1/4" MNPT                                                 |         |
|                                                 | 3XL25-1                              | HIGH PRESSURE JUNCTION BLOCK, DOUBLE PORT 1/2-20 UNF                                                |         |
| 2                                               | 3XL89-1 (THERMO)<br>3XL89 (SHERWOOD) | THERMO VALVE, 1/4 MNPT, (REPAIR KIT 3XL89-1-RK)<br>(OBSOLETE) SHERWOOD VALVE, (REPAIR KIT 3XL89-RK) | 4       |
| 2                                               | 3XL26                                | HIGH PRESSURE WHIP,S.S. BRAIDED 12" 1/4 MNPT X VCO<br>9/16-18                                       | 3       |
| 2                                               | 3XL29D                               | DIN-YOKE ADAPTER MAX PRESSURE 4350 PSIG (STANDARD) -<br>DIN-YOKE O-RING -112 90D (PN# 0XL11290)     | 2       |
|                                                 | 3XL29                                | A YOKE 3500 PSIG (OPTIONAL)                                                                         |         |
|                                                 | 3XL90                                | 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 |                                      |                                                                                                     |         |



|          |           |           |
|----------|-----------|-----------|
| DRAWN    | M.S. WARD | 6/14/2007 |
| CHECKED  | R.H. QA   | 1/12/2012 |
| MFG      |           |           |
| APPROVED | M.F. WARD | 1/12/2012 |

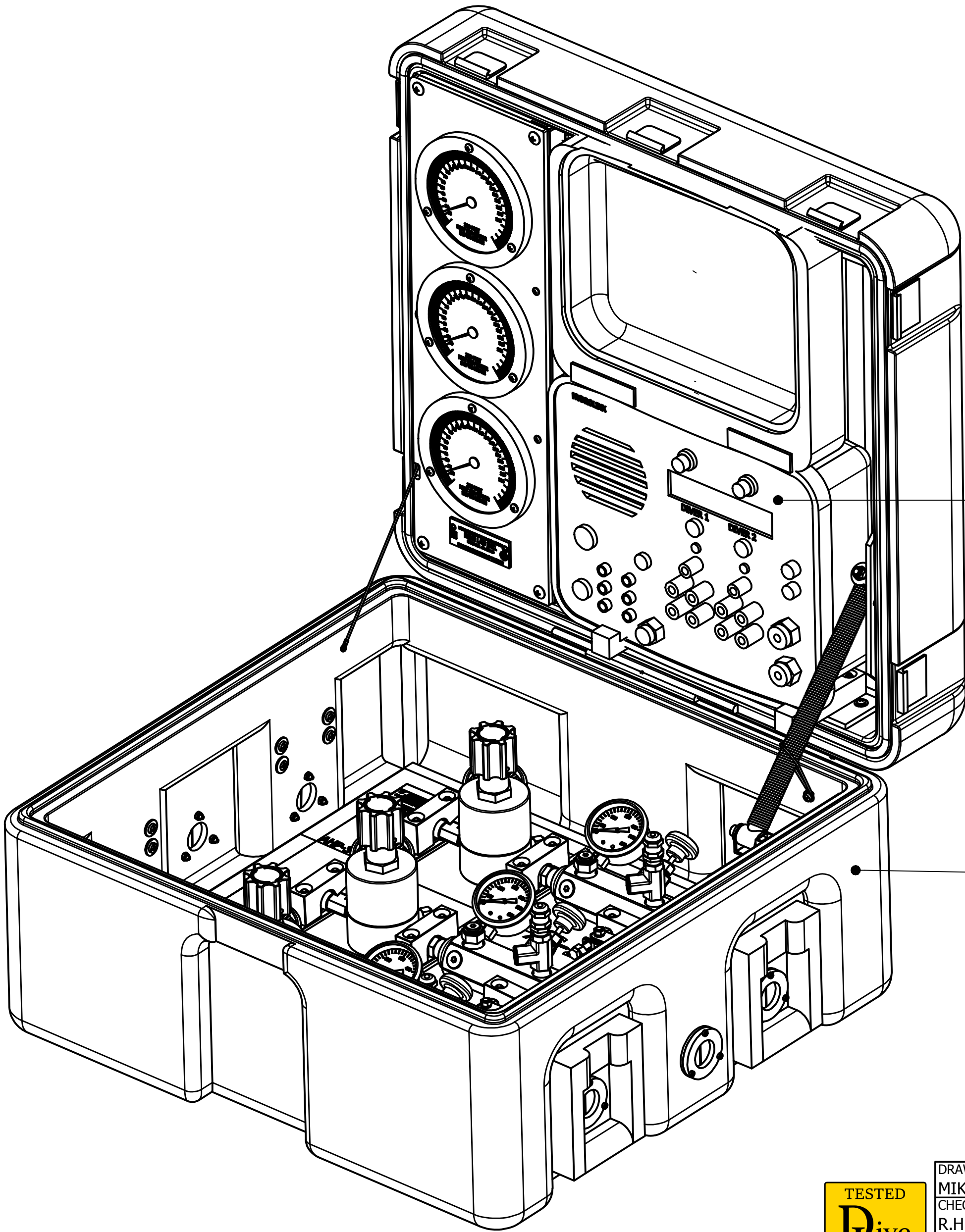
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|------------------------|---|--------|----------|
| Dive Lab Inc.          |   |        |          |
| HIGH PRESSURE ASSEMBLY |   |        |          |
| SIZE                   | C | DWG NO | 7009     |
| SCALE                  |   | REV    | 5/5/2021 |
| SHEET 1 OF 1           |   |        |          |

|                                                            |                                                                                                      |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| MATERIAL                                                   | DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407<br>VOICE: 850-235-2715 FAX: 850-235-0858 |
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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 |
| XLDS RDC-3 CONSOLE |                             |      |



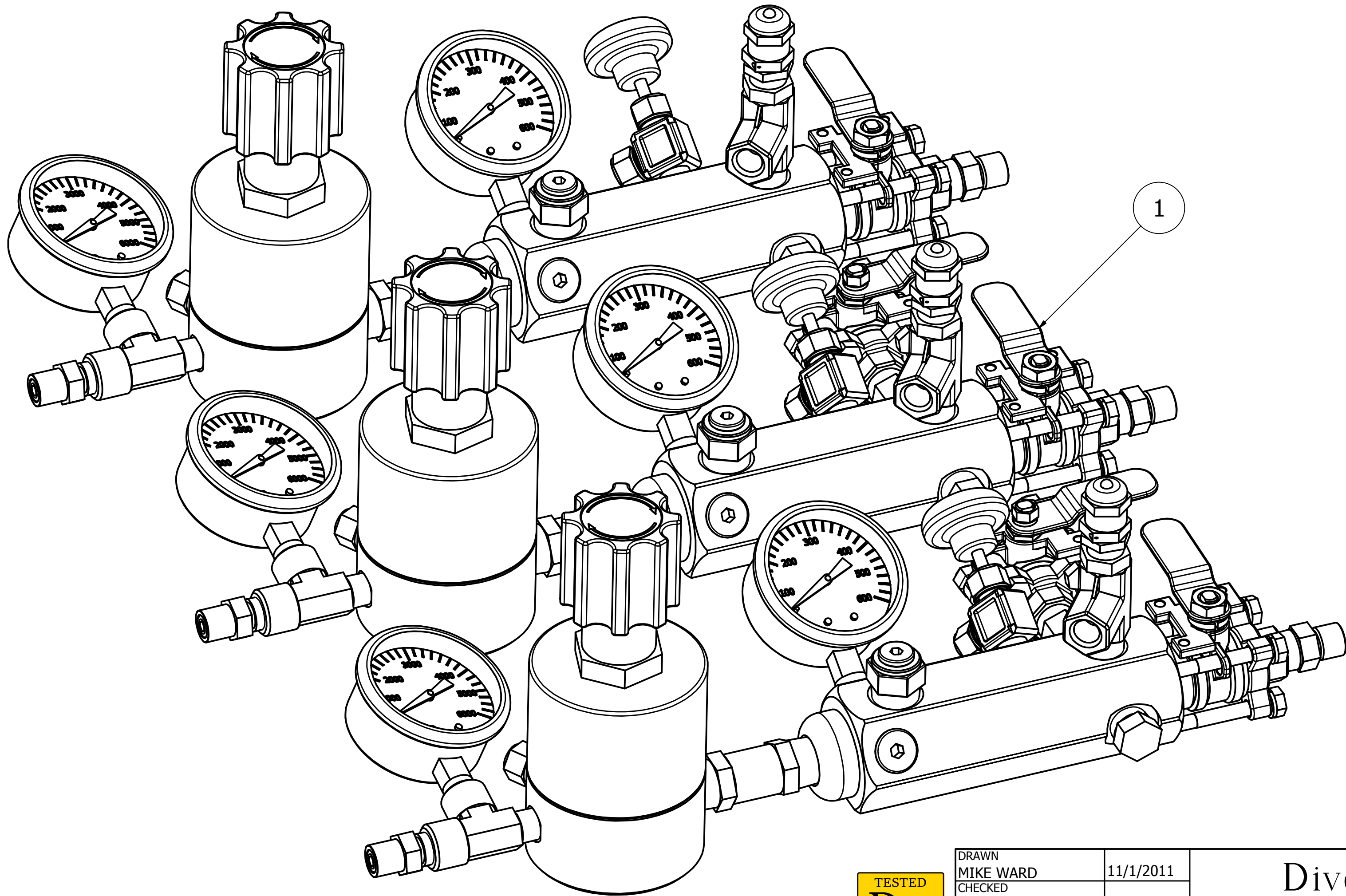
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|----------|------------------------------------------------------------------------------------------------------|
| MATERIAL | DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407<br>VOICE: 850-235-2715 FAX: 850-235-0858 |
|          | .X+-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

|                       |            |
|-----------------------|------------|
| DRAWN<br>MIKE WARD    | 11/10/2011 |
| CHECKED<br>R.H.<br>QA | 1/27/2012  |
| MFG                   |            |
| APPROVED<br>M.F. WARD | 1/27/2012  |

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

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 |                             |      |



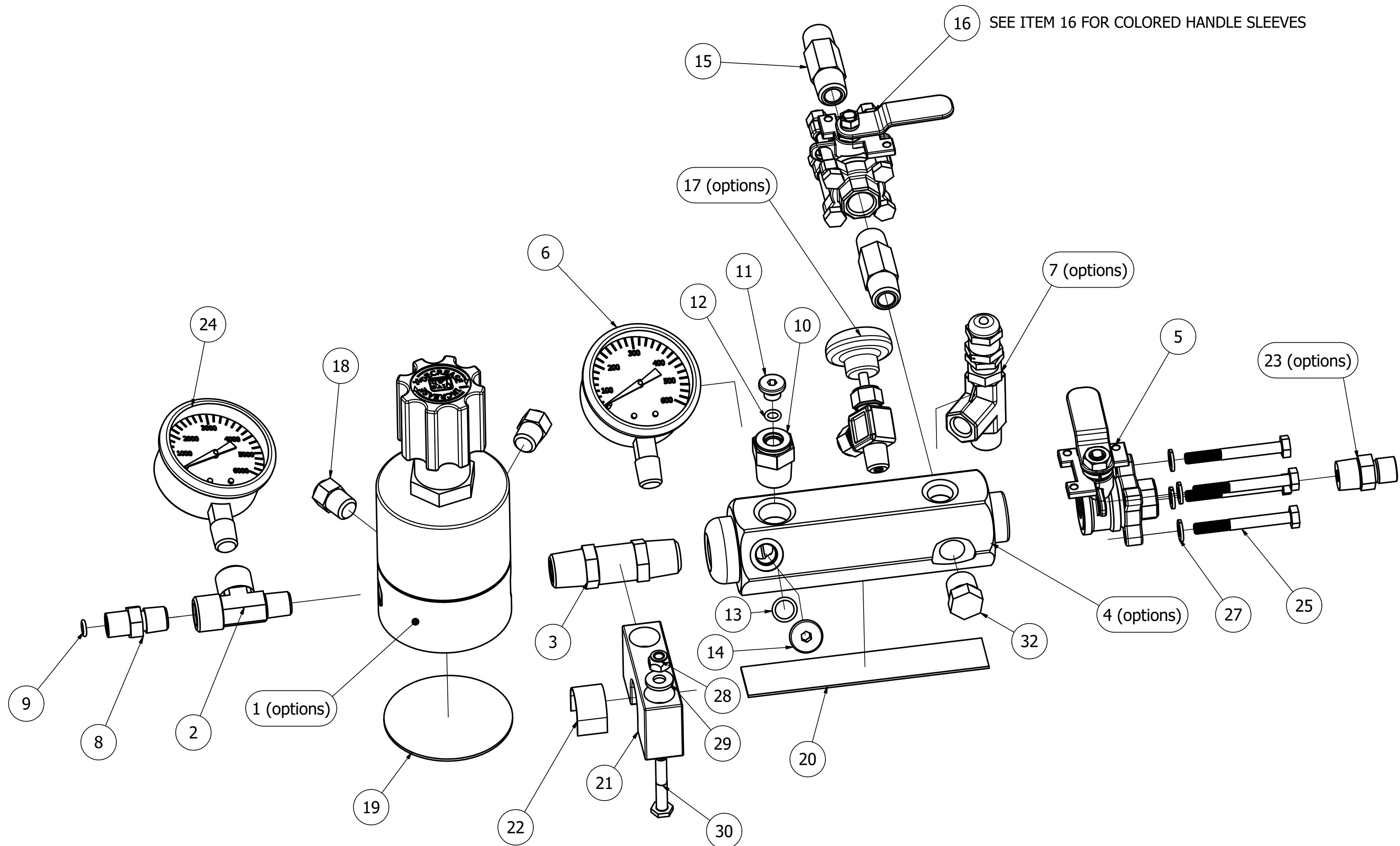
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|          | .X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES                                           |

|                       |           |
|-----------------------|-----------|
| DRAWN<br>MIKE WARD    | 11/1/2011 |
| CHECKED<br>R.H.<br>QA | 1/12/2012 |
| MFG                   |           |
| APPROVED<br>M.F. WARD | 1/12/2012 |

|                                |  |         |      |
|--------------------------------|--|---------|------|
| Dive Lab Inc.                  |  |         |      |
| TITLE                          |  |         |      |
| 3 DIVER GAS SYSTEM<br>ASSEMBLY |  |         |      |
| SIZE                           |  | DWG NO  | REV  |
| C                              |  | 7011    | -    |
| 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<br>MIKE WARD    | 11/2/2011 |
| CHECKED<br>R.H. QA    | 1/12/2012 |
| MFG                   |           |
| APPROVED<br>M.F. WARD | 1/12/2012 |

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

|                              |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| MATERIAL                     | DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407<br>VOICE: 850-235-2715 FAX: 850-235-0858 |
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4

3

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QTY

DIVE LAB PART NO.

DESCRIPTION

ITEM

32

31

31

30

29

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26

25

24

23

22

21

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18

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11

10

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6

5

4

3

2

1

1XL15A

1XL55A

1XL55

1XL51

1XLC36

1XLC4

1XL50

1XL1B

1XL52

1XL13

1XL121

1XL401

1XL14A

1XL14

1XL4A

1XL1C

1XL15B

1XL6

1XL6A

1XL8

1XL97 R,G,W

1XL9

1XL15C

0XL01370

0XL01170

1XL15D

1XL15E

0XL01090

1XL17

1XL7A

1XL7

1XL5

1XL8A

1XL4R,G,Y

1XL4x

1XL2

1XL16

1XL1

1XL1A

PLUG, 3/8 MNPT (USED ON RED AND YELLOW MANIFOLD)

DECAL, CONSOLE SETTINGS

DECAL, MAIN MOUNT PLATE GRAPHICS, 22.5" x 23.5"

BOLT MODIFIED, 1/4-20 x 2. UNC

1/4 FLAT WASHER

1/4-20 UNC LOCK NUT

1/4 LOCK WASHER

REGULATOR KNOB DECAL, ADD R,G,Y AFTER PART NO.

BOLT 1/4-20 UNC x 2-1/4, BALL VALVE MANIFOLD END

GAUGE 0-6000 HIGH PRESSURE

3/8 MNPT x 9/16-18 UNC (STANDARD)

3/8 MNPT x #6 JIC (OPTIONAL)

CLAMP BLOCK BASE RUBBER

CLAMP BLOCK

MANIFOLD BASE RUBBER

REGULATOR BASE RUBBER

PLUG 1/4 MNPT

PNEUMO VALVE STAINLESS MODIFIED (STANDARD)

PNEUMO VALVE BRASS MODIFIED

BALL VALVE CROSS CONNECT

HANDLE SLEEVES, ADD R,G,W AFTER PART NO.

NIPPLE 2. OAL x 3/8 MNPT

PLUG 1/2-20 UNC

O-RING -013 70D FOR 1/2-20 UNC PLUG

O-RING -011 70D FOR 3/8-24 UNF PLUG

PLUG 3/8-24 UNF

PLUG 1/2 MNPT x 3/8-24 UNF O-RING PORT

O-RING - 010 90D

ZCO FITTING 1/4 MNPT x 9/16-18 UNC

RELIEF, HYLOK STAINLESS (STANDARD)

350-750 PSIG SPRING KIT#1XL7B

RELIEF, CIRCLE SEAL BRASS

GAUGE, LOW PRESSURE 0-600 PSIG

BALL VALVE, MANINFOLD END

MANIFOLD 1XL4, ADD R,G,Y TO SPECIFY COLOR

MANIFOLD RED WITH LOW PRESSURE INTERFACE PORT

CHECK VALVE

STREET TEE, HIGH PRESSURE MNPT

AE 0-400 OUT REGULATOR 1XL1 (STANDARD)

TESCOM 0-400 OUT REGULATOR FOR NITROX

( TESCOM REGULATOR IS NOT FIELD INSTALLABLE)

1XL4-RK 0-RING KIT

|     |          |                  |      |
|-----|----------|------------------|------|
| 3   | 0XL01370 | O-RING, -013 70D | 13   |
| 3   | 0XL01170 | O-RING, -011 70D | 12   |
| 3   | 0XL01090 | O-RING, -010 90D | 9    |
| QTY | PART NO. | DESCRIPTION      | ITEM |

(MANIFOLD) GAS SYSTEM LEG O-RING KIT 1XL4-RK

TESTED

Dive Lab

Panama City Beach Florida

DRAWN

MIKE WARD

11/2/2011

CHECKED

R.H.

1/12/2012

QA

MFG

APPROVED

M.F. WARD

1/12/2012

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GAS SYSTEM LEG ASSEMBLY

SIZE

C

DWG NO

7012

REV

5/5/2021

SCALE

SHEET 2 OF 2

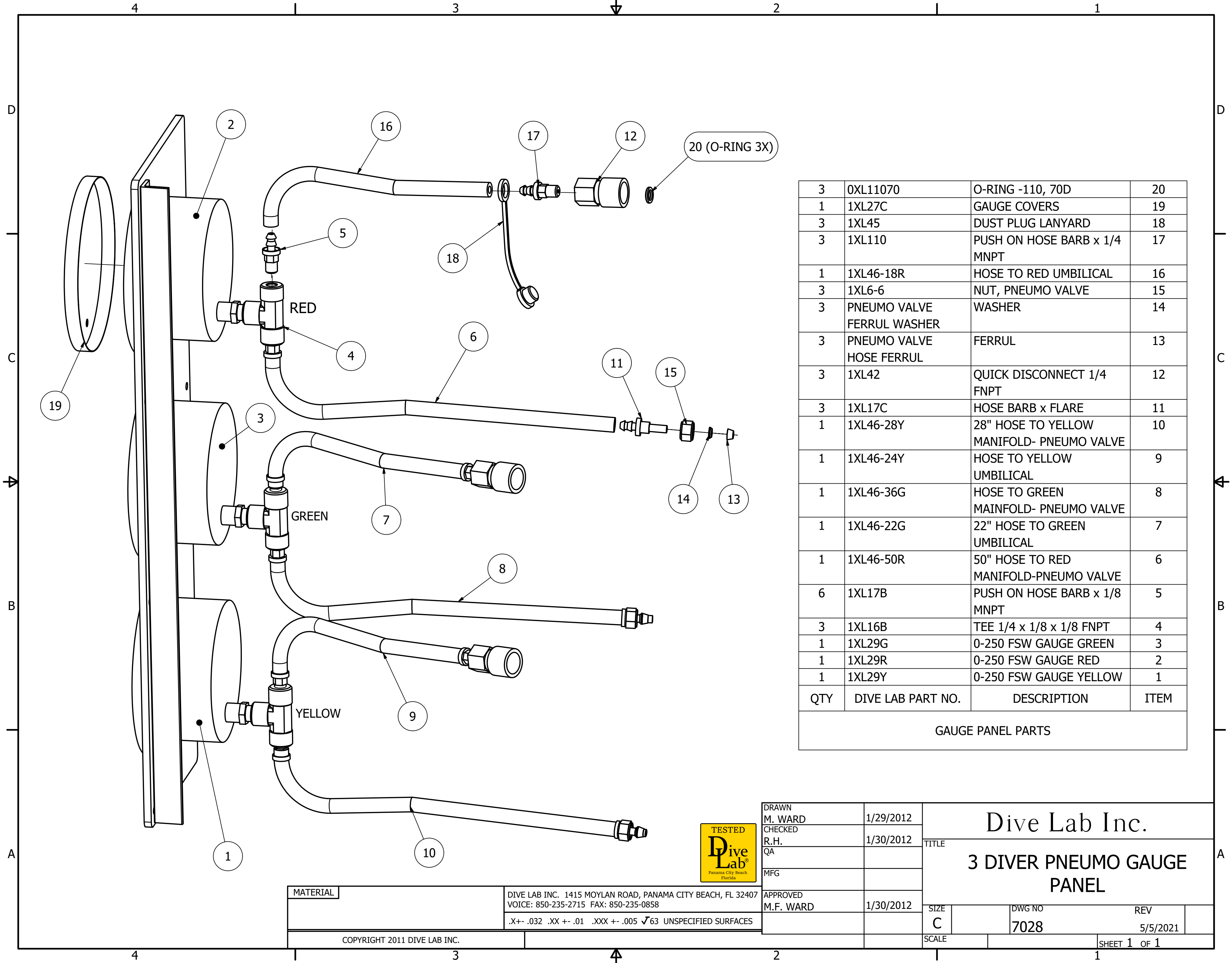
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3

2

1

8



|                   |                            |                                           |      |
|-------------------|----------------------------|-------------------------------------------|------|
| 3                 | 0XL11070                   | O-RING -110, 70D                          | 20   |
| 1                 | 1XL27C                     | GAUGE COVERS                              | 19   |
| 3                 | 1XL45                      | DUST PLUG LANYARD                         | 18   |
| 3                 | 1XL110                     | PUSH ON HOSE BARB x 1/4 MNPT              | 17   |
| 1                 | 1XL46-18R                  | HOSE TO RED UMBILICAL                     | 16   |
| 3                 | 1XL6-6                     | NUT, PNEUMO VALVE                         | 15   |
| 3                 | PNEUMO VALVE FERRUL WASHER | WASHER                                    | 14   |
| 3                 | PNEUMO VALVE HOSE FERRUL   | FERRUL                                    | 13   |
| 3                 | 1XL42                      | QUICK DISCONNECT 1/4 FNPT                 | 12   |
| 3                 | 1XL17C                     | HOSE BARB x FLARE                         | 11   |
| 1                 | 1XL46-28Y                  | 28" HOSE TO YELLOW MANIFOLD- PNEUMO VALVE | 10   |
| 1                 | 1XL46-24Y                  | HOSE TO YELLOW UMBILICAL                  | 9    |
| 1                 | 1XL46-36G                  | HOSE TO GREEN MAINFOLD- PNEUMO VALVE      | 8    |
| 1                 | 1XL46-22G                  | 22" HOSE TO GREEN UMBILICAL               | 7    |
| 1                 | 1XL46-50R                  | 50" HOSE TO RED MANIFOLD-PNEUMO VALVE     | 6    |
| 6                 | 1XL17B                     | PUSH ON HOSE BARB x 1/8 MNPT              | 5    |
| 3                 | 1XL16B                     | TEE 1/4 x 1/8 x 1/8 FNPT                  | 4    |
| 1                 | 1XL29G                     | 0-250 FSW GAUGE GREEN                     | 3    |
| 1                 | 1XL29R                     | 0-250 FSW GAUGE RED                       | 2    |
| 1                 | 1XL29Y                     | 0-250 FSW GAUGE YELLOW                    | 1    |
| QTY               | DIVE LAB PART NO.          | DESCRIPTION                               | ITEM |
| GAUGE PANEL PARTS |                            |                                           |      |



|          |                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------|
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|          | .X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES                                           |

- 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)

D

C

B

A

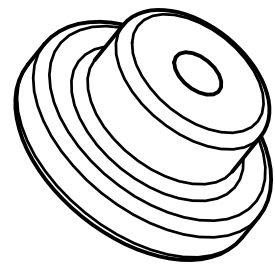
D

C

B

A

DETAIL: A  
SCALE 2.0



DETAIL B  
SCALE 4.1

|          |                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------|
| MATERIAL | DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407<br>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 | 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<br>AQUA ENVIRONMENT |   |        |           |
| SIZE                                | C | DWG NO | 7015      |
| SCALE                               |   | REV    | 5/10/2021 |
| SHEET                               |   | 1 OF 2 |           |

4

3

4

2

1

10



1

1XL1-CA

CARTRIDGE ASSEMBLY, ( ITEMS 3,4,5,6,7,8,9 )  
OVERHAUL ITEM (NOTE 2)

20

1

1XL1-19 R,Y,G

DECAL, KNOB SPECIGY R,G,Y AFTER PN#

19

1

1XL1-18

REG TOP

18

1

1XL1-17

STEM CAP

17

1

1XL1-16

STEM

16

1

1XL1-15

KNOB

15

2

1XL1-14

BRASS WASHER

14

1

1XL1-13

ROLLER BEARING

13

2

1XL1-12

STAINLESS STEEL WASHER

12

1

1XL1-11

SPRING PAD

11

1

1XL1-10

SPRING

10

1

1XL1-9

STOP RING (SEE NOTE 2)

9

1

1XL1-8

SEAT (SEE NOTE 2)

8

1

1XL1-7

O-RING (SEE NOTE 2)

7

1

1XL1-6

O-RING (SEE NOTE 2)

6

1

1XL1-5

PISTON SEE NOTE 2)

5

1

1XL1-4

O-RING (SEE NOTE 2)

4

1

1XL1-3

PISTON HOUSING (SEE NOTE 2)

3

1

1XL1-2

POPPET ASSEMBLY (SEE NOTE 2)

2

-

1XL1-2A

POPPET O-RING

1

1XL1-1

REG BOTTOM

1

QTY

DIVE LAB PART NO

DESCRIPTION

ITEM

1XL1 0-400 AQUA ENVIRONMENT REGULATOR

TESTED

Dive Lab

FLORIDA

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.S. WARD

CHECKED

R.H.

QA

MFG

APPROVED

M.F. WARD

5/5/2005

5/10/2021

5/10/2021

5/10/2021

Dive Lab Inc.

TITLE

REGULATOR 0-400

AQUA ENVIRONMENT

SIZE

C

DWG NO

7015

REV

5/10/2021

SCALE

SHEET

2

OF

2

4

3

2

1

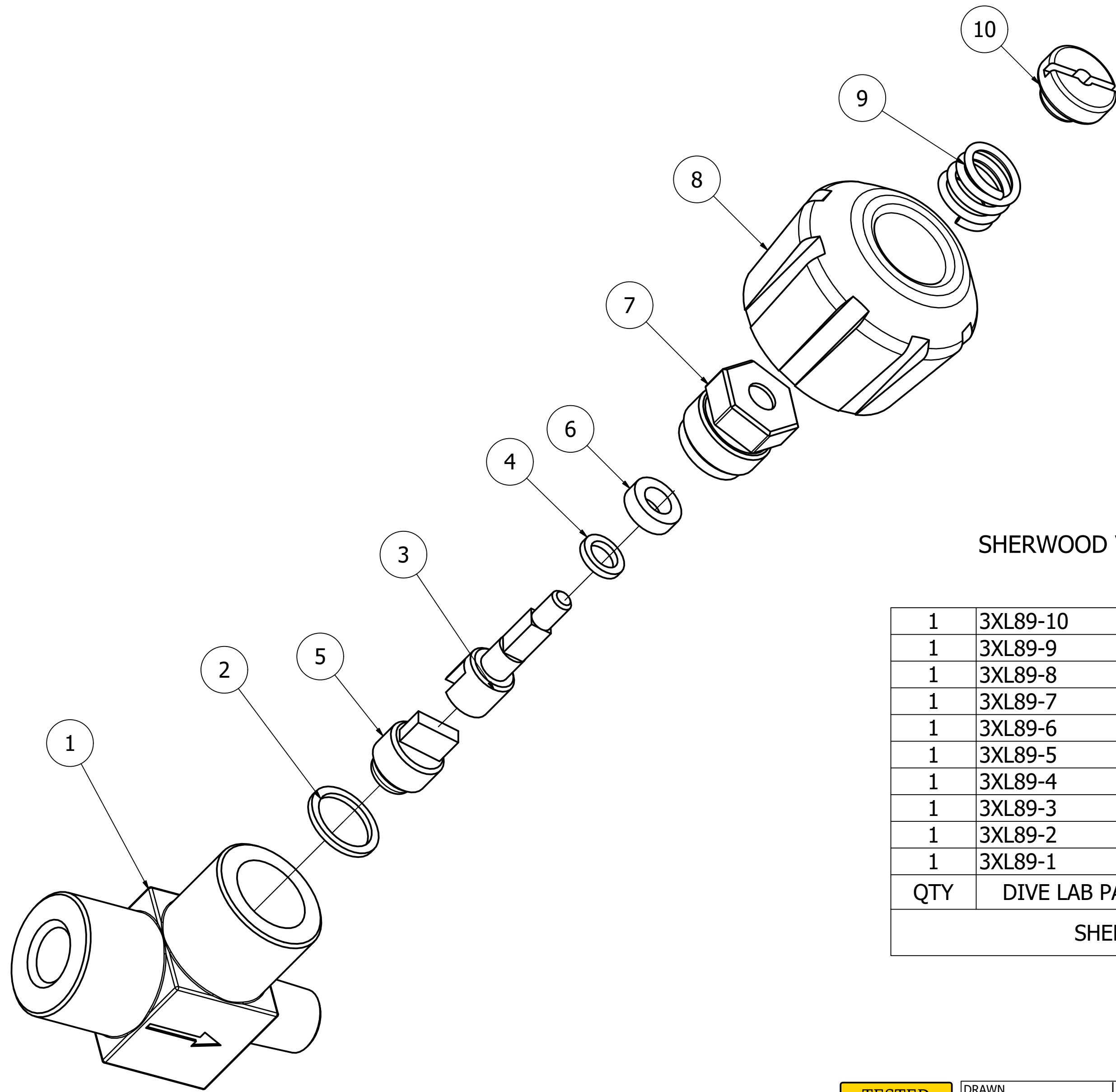
4

3

2

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11



SHERWOOD VALVE REBUILD KIT # 3XL89-RK

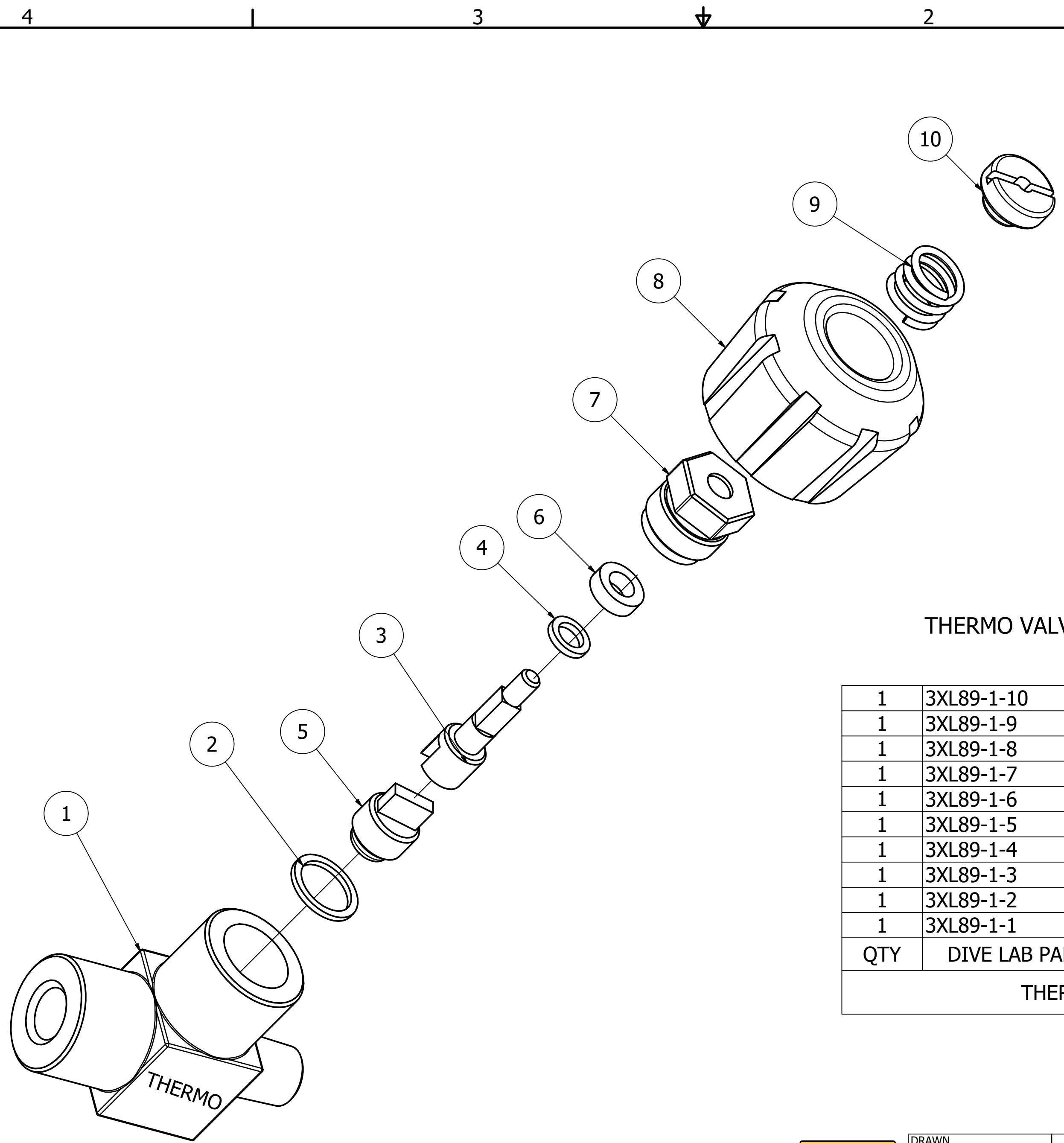
|                         |                  |                |      |
|-------------------------|------------------|----------------|------|
| 1                       | 3XL89-10         | LOCK NUT       | 10   |
| 1                       | 3XL89-9          | SPRING         | 9    |
| 1                       | 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<br>M.S. WARD    | 5/18/2005 |
| CHECKED<br>R.H. QA    | 1/16/2012 |
| MFG                   |           |
| APPROVED<br>M.F. WARD | 1/16/2012 |

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

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

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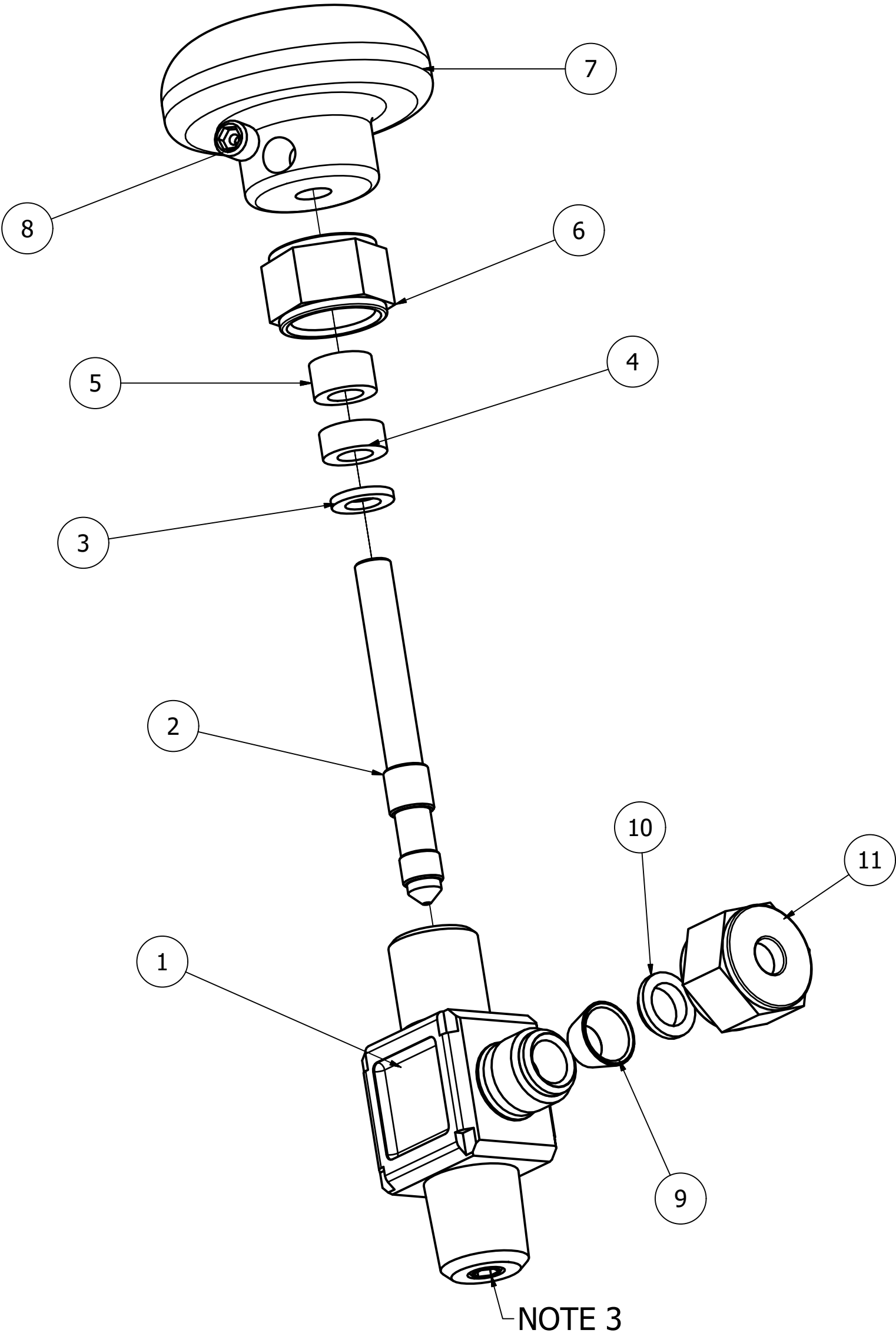


|                       |           |
|-----------------------|-----------|
| DRAWN<br>M.S. WARD    | 5/18/2005 |
| CHECKED<br>R.H. QA    | 1/16/2012 |
| MFG                   |           |
| APPROVED<br>M.F. WARD | 1/16/2012 |

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



1. VALVE BODY, ITEM 1 HAS BEEN MODIFIED  
FOR A PERMANENT FLOW RESTRICTOR.



REPAIR KIT #1XL6-RK

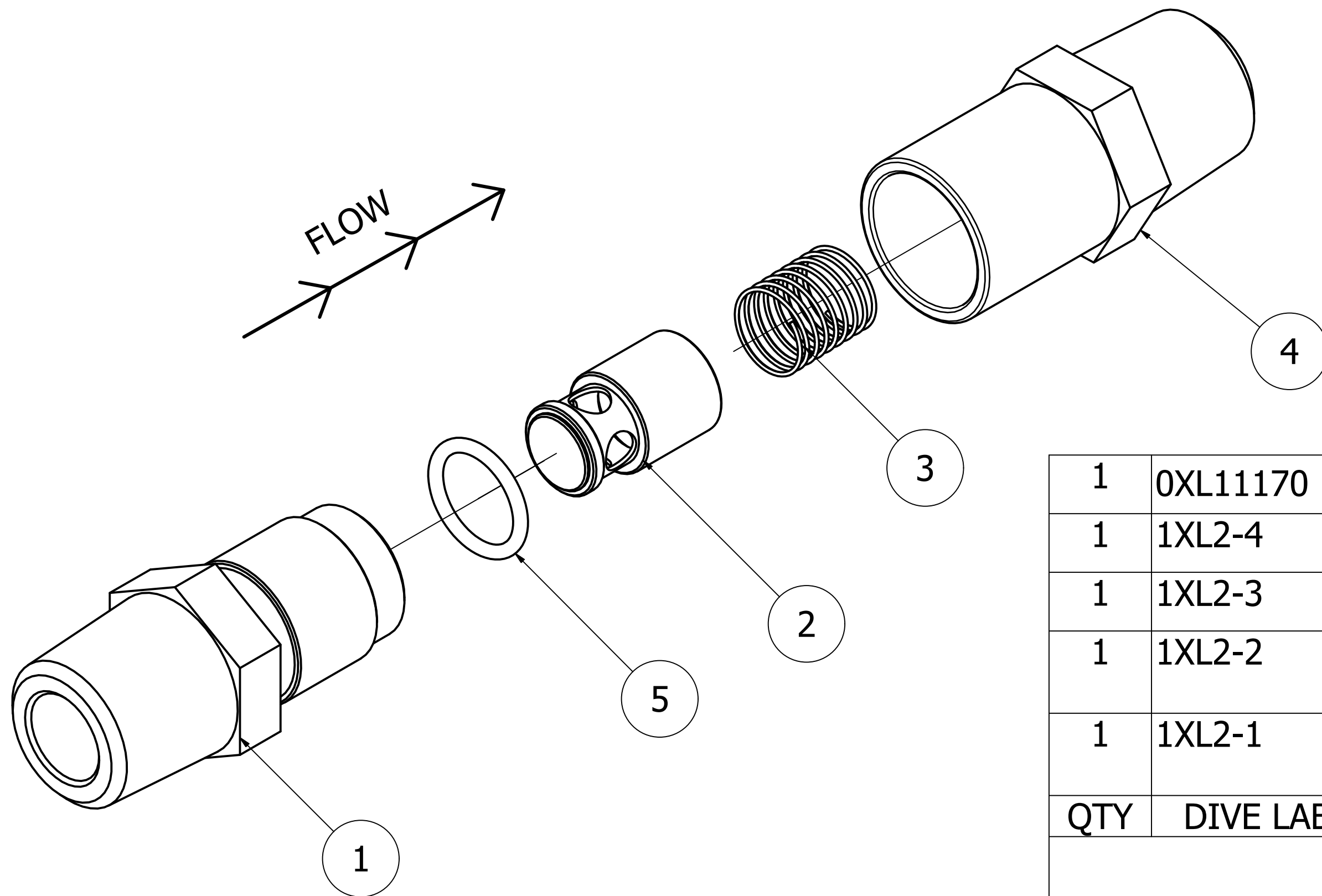
|                                        |                   |                 |      |
|----------------------------------------|-------------------|-----------------|------|
| 1                                      | 1XL6C-11          | NUT             | 11   |
| 1                                      | 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<br>MIKE S. WARD | 8/22/2005 |
| CHECKED<br>R.H. QA    | 1/12/2012 |
| MFG                   |           |
| APPROVED<br>M.F. WARD | 1/12/2012 |

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

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

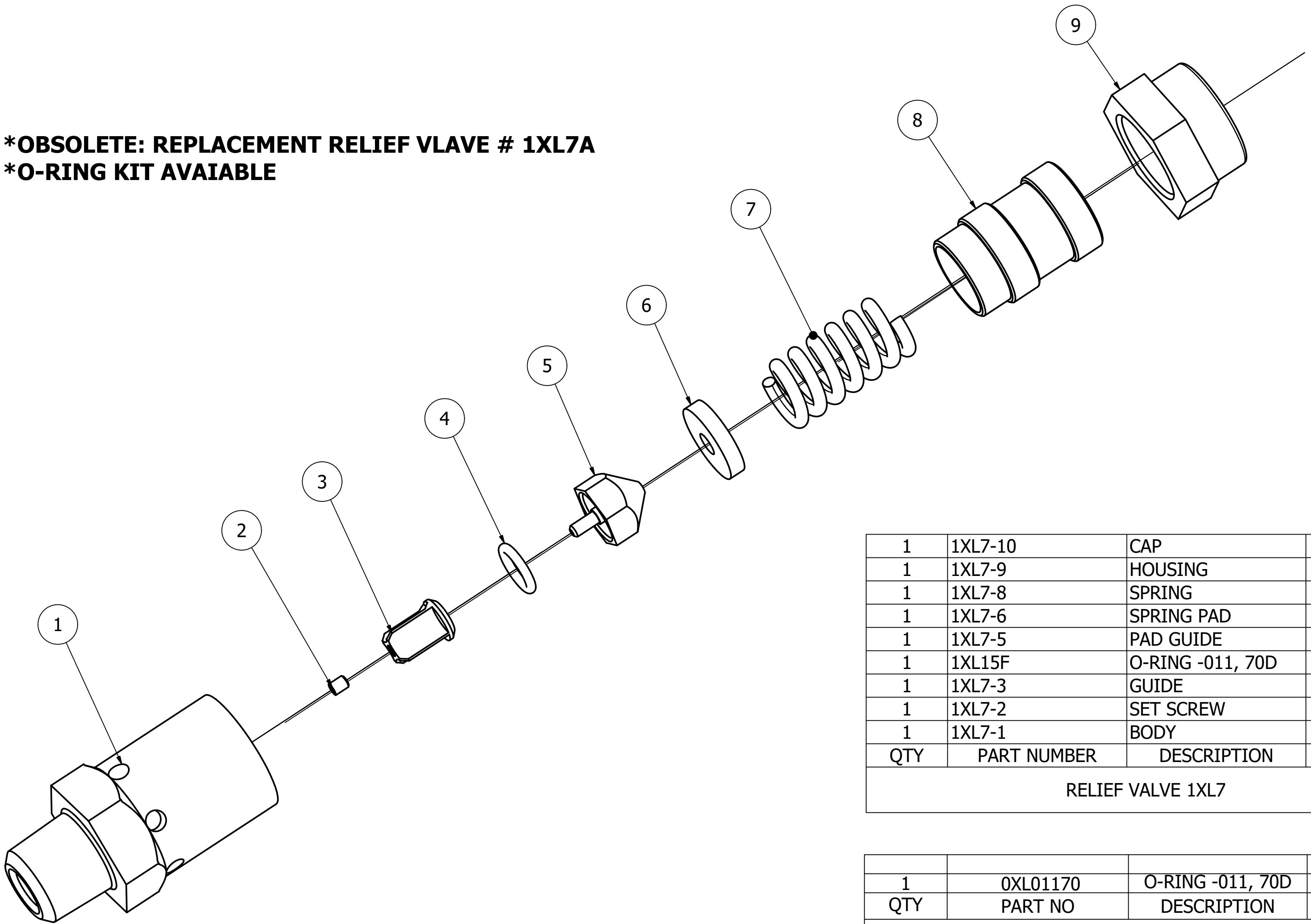
|                    |                  |                  |      |
|--------------------|------------------|------------------|------|
| 1                  | 1XL2-3RK         | SPRING           | 3    |
| 1                  | 0XL11170         | O-RING -111, 70D | 5    |
| QTY                | DIVE LAB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



|                       |           |                  |                |                 |
|-----------------------|-----------|------------------|----------------|-----------------|
| DRAWN<br>MIKE S. WARD | 5/6/2005  | Dive Lab Inc.    |                |                 |
| CHECKED<br>R.H. QA    | 1/12/2012 |                  |                |                 |
| MFG                   |           |                  |                |                 |
| APPROVED<br>M.F. WARD | 1/12/2012 | CHECK VALVE 1XL2 |                |                 |
|                       |           | SIZE<br>C        | DWG NO<br>7024 | REV<br>5/5/2021 |
|                       |           | SCALE            | SHEET 1 OF 1   |                 |

|                                                            |                                                                                                      |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| MATERIAL                                                   | DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407<br>VOICE: 850-235-2715 FAX: 850-235-0858 |
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**\*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 |          |                  |      |

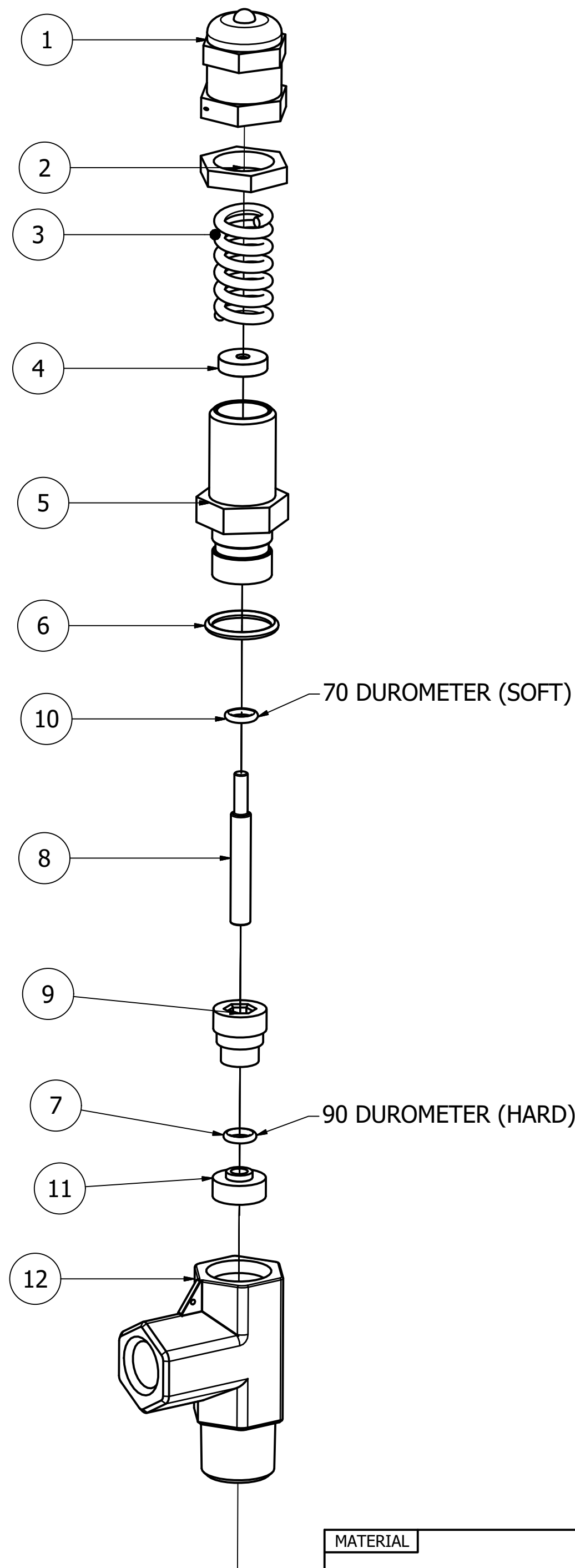


|          |           |           |
|----------|-----------|-----------|
| DRAWN    | M.S. WARD | 5/5/2005  |
| CHECKED  | R.H. QA   | 1/12/2012 |
| MFG      |           |           |
| APPROVED | M.F. WARD | 1/12/2012 |

|                    |   |              |              |
|--------------------|---|--------------|--------------|
| 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<br>VOICE: 850-235-2715 FAX: 850-235-0858<br>.X+- .032 .XX +- .01 .XXX +- .005 √63 UNSPECIFIED SURFACES |
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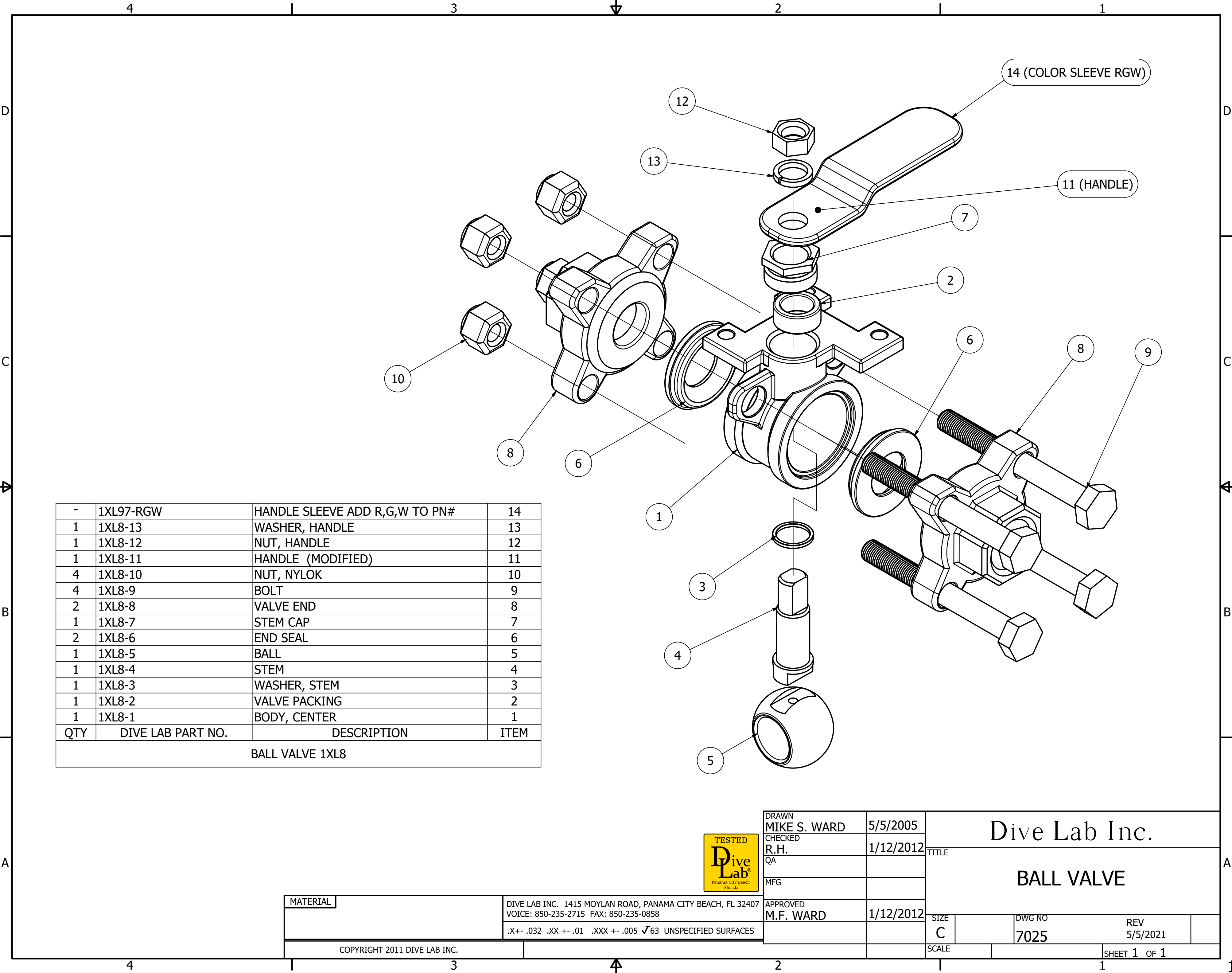
|              |                          |                      |      |
|--------------|--------------------------|----------------------|------|
| 1            | BODY                     | 1XL7A-13             | 12   |
| 1            | BODY SEAT                | 1XL7A-12             | 11   |
| 1            | 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<br>VOICE: 850-235-2715 FAX: 850-235-0858 |  | APPROVED<br>M.F. WARD |  | 1/12/2012    |  | Dive Lab Inc. |                |             |
|          |  |                                                                                                      |  |                       |  |              |  |               |                |             |
|          |  |                                                                                                      |  | MFG                   |  | RELIEF VALVE |  |               |                |             |
|          |  |                                                                                                      |  |                       |  |              |  |               |                |             |
|          |  |                                                                                                      |  |                       |  |              |  | SIZE<br>C     | DWG NO<br>7017 | REV<br>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 |                   |                                |      |

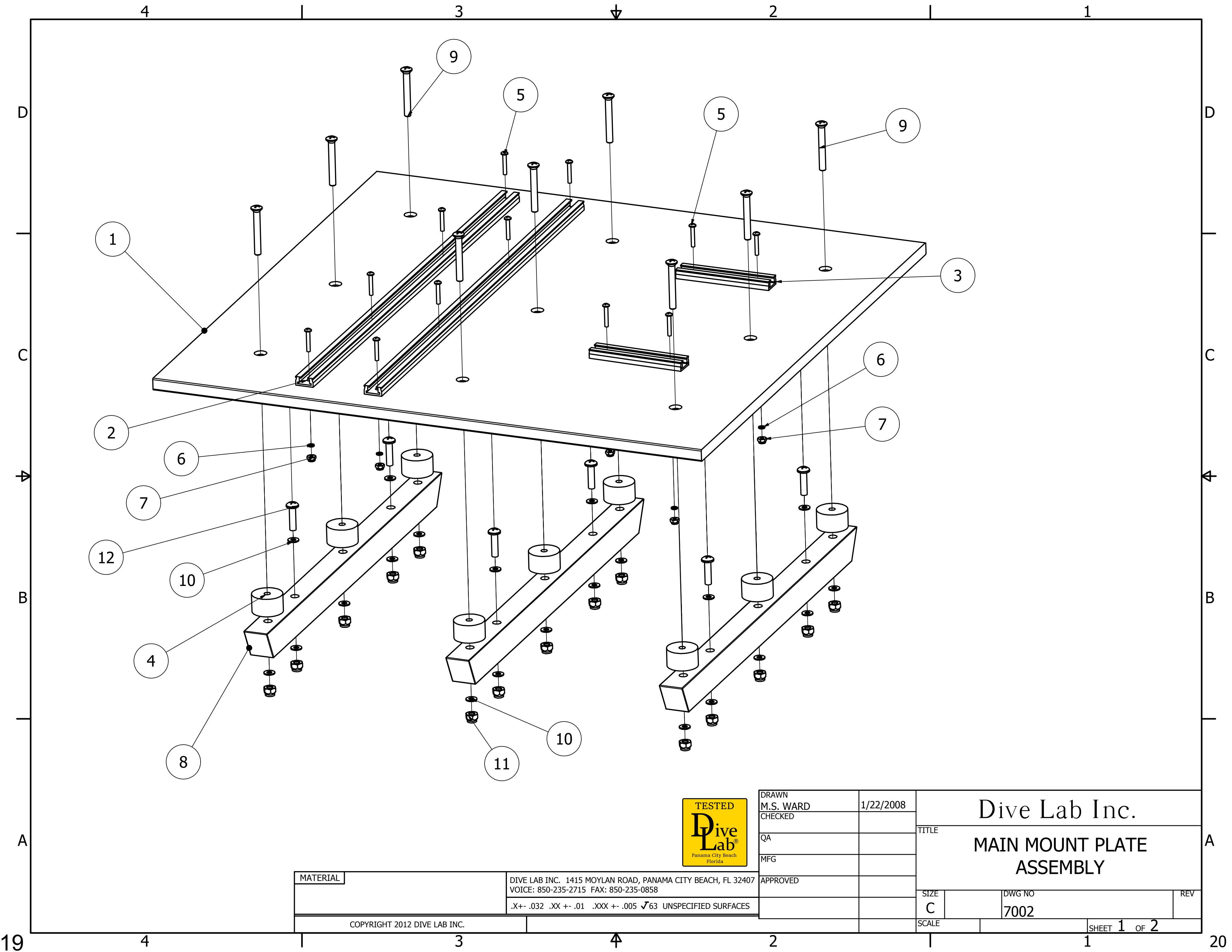


|                       |           |                     |                |                 |
|-----------------------|-----------|---------------------|----------------|-----------------|
| DRAWN<br>MIKE S. WARD | 5/5/2005  | Dive Lab Inc.       |                |                 |
| CHECKED<br>R.H.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

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

4

3

2

1

D

C

B

A

|                           |                   |                      |      |
|---------------------------|-------------------|----------------------|------|
|                           |                   |                      |      |
| -                         | 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 | 1/22/2008 |
| CHECKED  |           |           |
| QA       |           |           |
| MFG      |           |           |
| APPROVED |           |           |

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

|                           |              |
|---------------------------|--------------|
| Dive Lab Inc.             |              |
| MAIN MOUNT PLATE ASSEMBLY |              |
| SIZE                      | DWG NO       |
| C                         | 7002         |
| SCALE                     | SHEET 2 OF 2 |

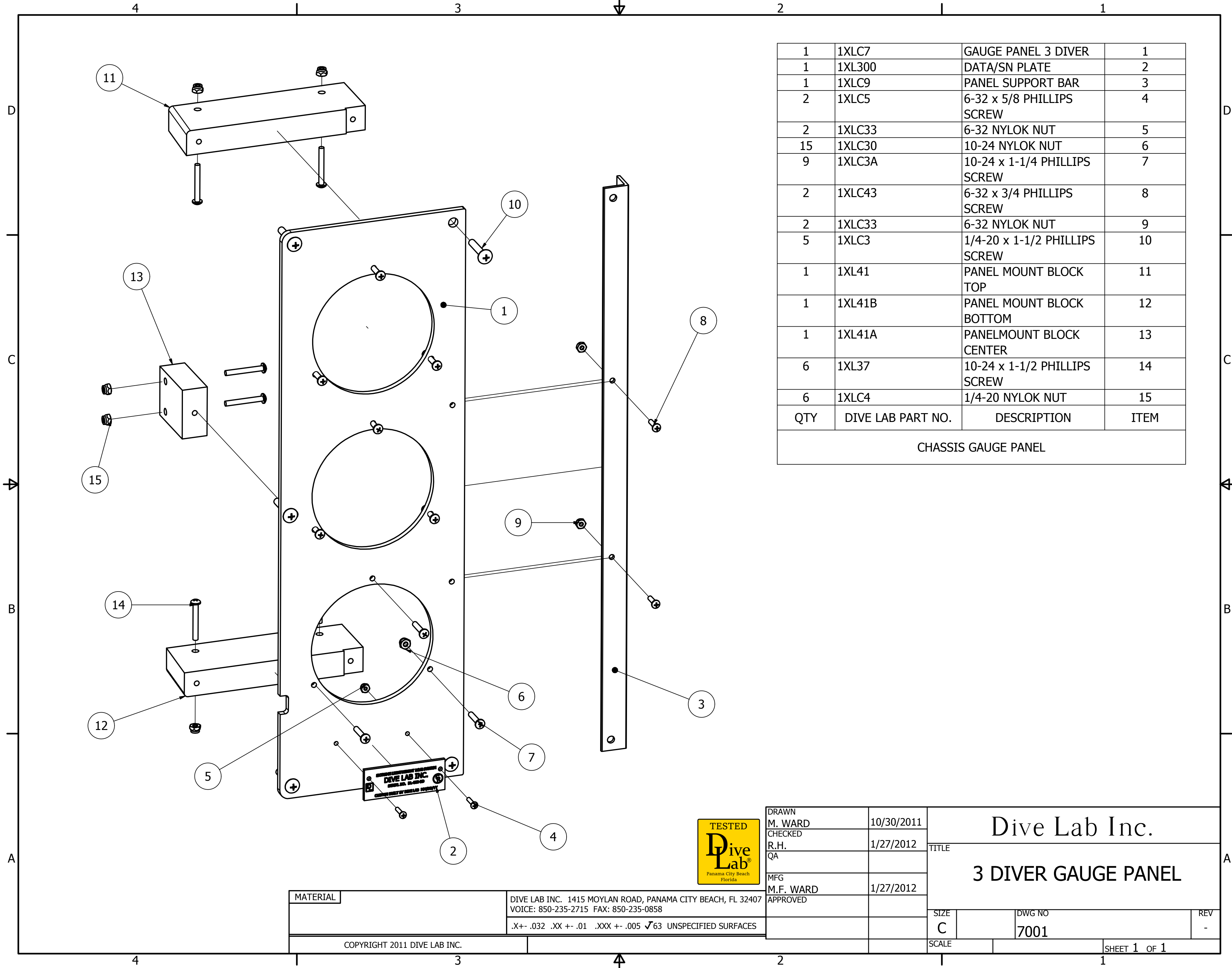
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2

1

21



|                     |                   |                               |      |
|---------------------|-------------------|-------------------------------|------|
| 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 |                   |                               |      |



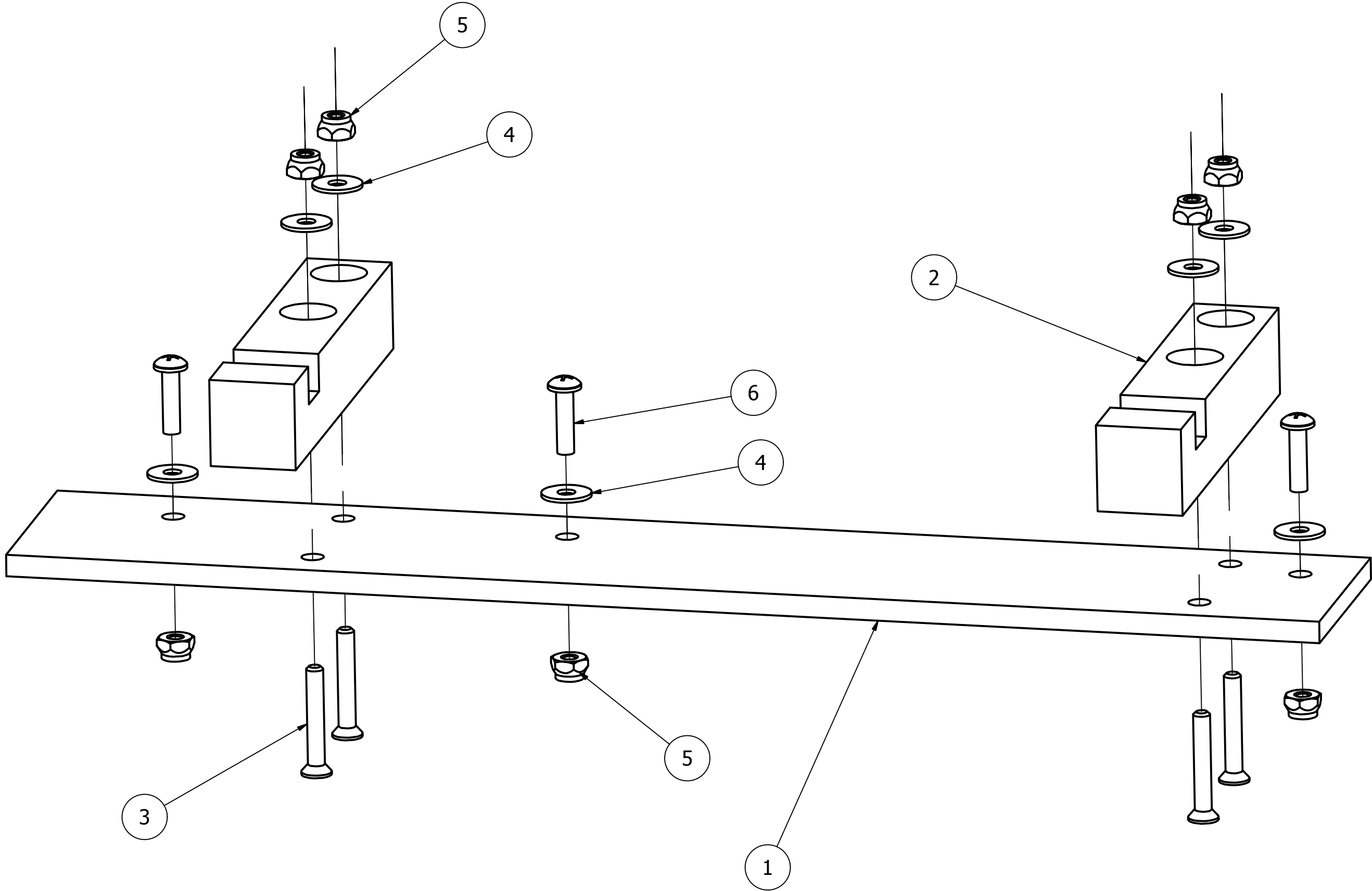
|          |                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------|
| MATERIAL | DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407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

|          |           |            |
|----------|-----------|------------|
| 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   |      |



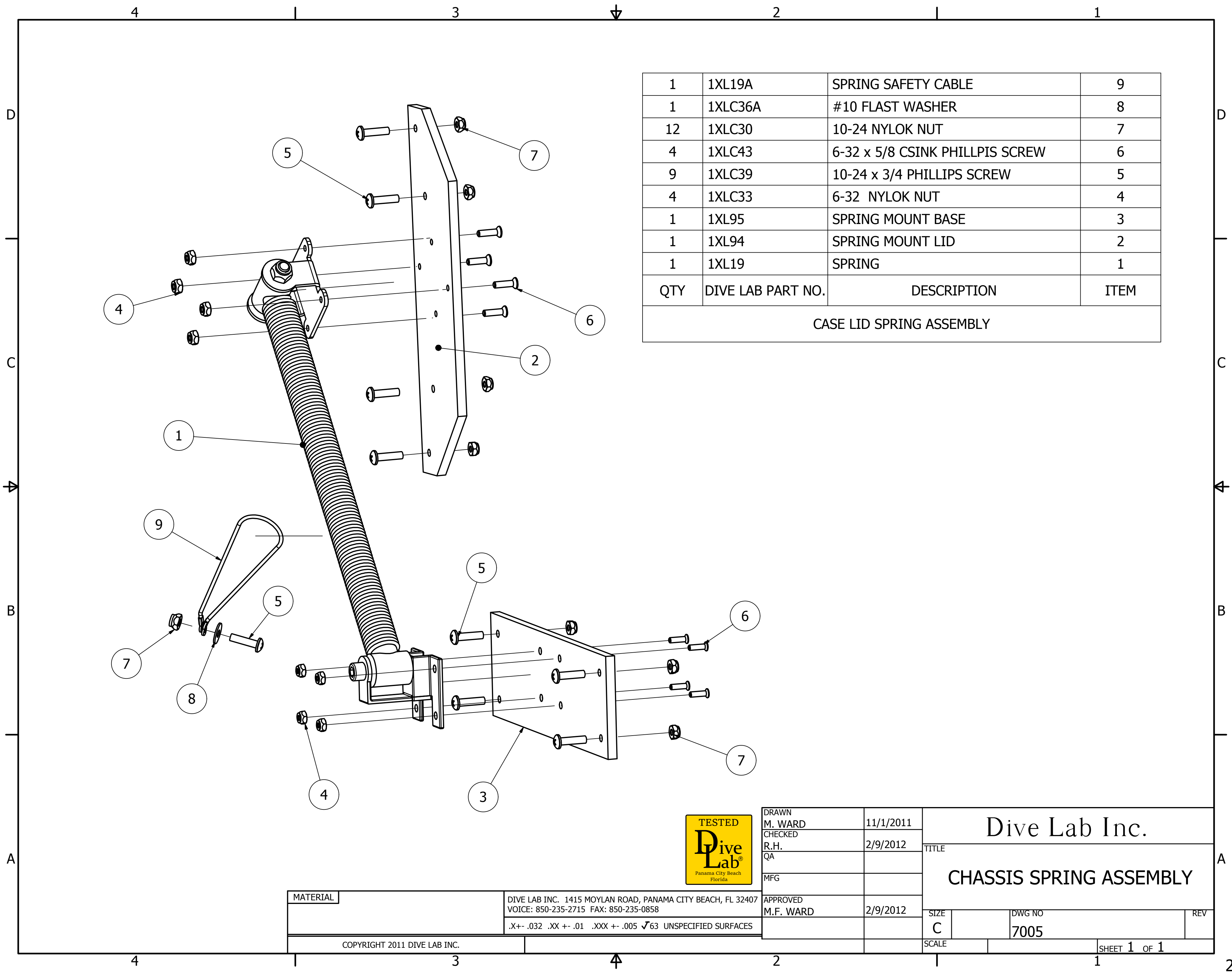
|                          |                   |                                |      |
|--------------------------|-------------------|--------------------------------|------|
| 3                        | 1XL33C            | 10-24 x 3/4 PHILLIPS SCREW     | 6    |
| 7                        | 1XLC30            | 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<br>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 |
| SCALE                   |   | REV    | -    |
| SHEET 1                 |   | OF 1   |      |



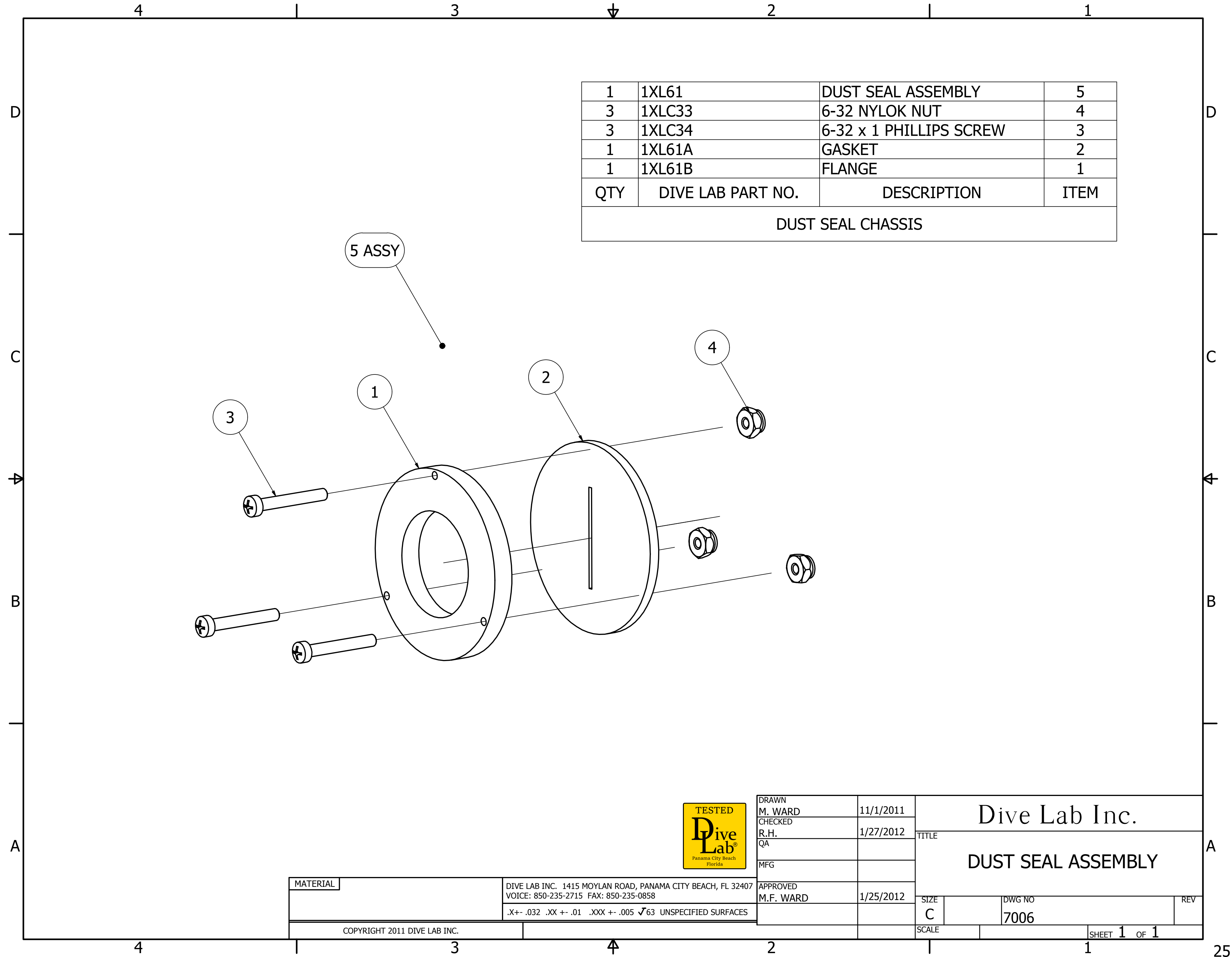
|                          |                   |                                 |      |
|--------------------------|-------------------|---------------------------------|------|
| 1                        | 1XL19A            | SPRING SAFETY CABLE             | 9    |
| 1                        | 1XLC36A           | #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 |                   |                                 |      |



|          |                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------|
| MATERIAL | DIVE LAB INC. 1415 MOYLAN ROAD, PANAMA CITY BEACH, FL 32407<br>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   | 2/9/2012  |
| MFG      |           |           |
| APPROVED | M.F. WARD | 2/9/2012  |

|                         |   |        |      |
|-------------------------|---|--------|------|
| Dive Lab Inc.           |   |        |      |
| TITLE                   |   |        |      |
| CHASSIS SPRING ASSEMBLY |   |        |      |
| SIZE                    | C | DWG NO | 7005 |
| SCALE                   |   |        |      |
| SHEET 1 OF 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<br>VOICE: 850-235-2715 FAX: 850-235-0858 |
|          | .X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES                                           |

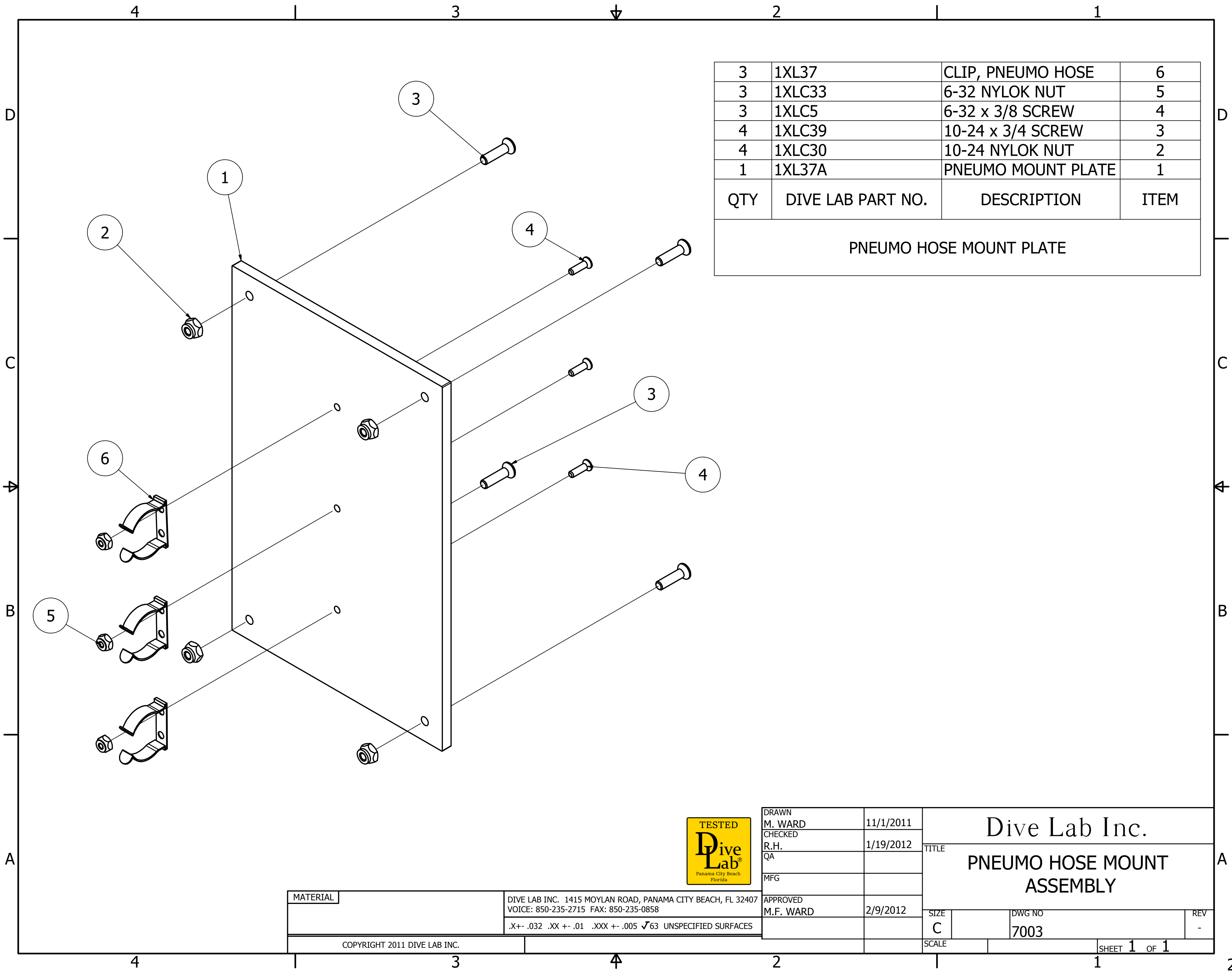
|                       |           |
|-----------------------|-----------|
| DRAWN<br>M. WARD      | 11/1/2011 |
| CHECKED<br>R.H.<br>QA | 1/27/2012 |
| MFG                   |           |
| APPROVED<br>M.F. WARD | 1/25/2012 |

|                             |                |     |  |
|-----------------------------|----------------|-----|--|
| Dive Lab Inc.               |                |     |  |
| TITLE<br>DUST SEAL ASSEMBLY |                |     |  |
| SIZE<br>C                   | DWG NO<br>7006 | REV |  |
| SCALE                       | SHEET 1 OF 1   |     |  |

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|                         |                   |                    |      |
|-------------------------|-------------------|--------------------|------|
| 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<br>VOICE: 850-235-2715 FAX: 850-235-0858 |
|          | .X+- .032 .XX +- .01 .XXX +- .005 ✓63 UNSPECIFIED SURFACES                                           |

|                       |           |                                                |                |          |
|-----------------------|-----------|------------------------------------------------|----------------|----------|
| DRAWN<br>M. WARD      | 11/1/2011 | Dive Lab Inc.<br>PNEUMO HOSE MOUNT<br>ASSEMBLY |                |          |
| CHECKED<br>R.H.<br>QA | 1/19/2012 |                                                |                |          |
| MFG                   |           |                                                |                |          |
| APPROVED<br>M.F. WARD | 2/9/2012  | SIZE<br>C                                      | DWG NO<br>7003 | REV<br>- |
|                       |           | 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 _____<br>Green _____<br>Yellow _____ |
| 3. Visually inspect gauges for obvious signs of damage. Guidance O & M Manual.                                                                                                                                                                                                                                                        | Red _____<br>Green _____<br>Yellow _____ |

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This Guide is made available for the express use of owners and users of the Dive Lab 2 & 3 Diver Rapid Deployment Console. This information is subject to periodic updates and changes. Always check the Dive Lab web site for the latest versions.

Revised August 4, 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 _____<br>ALP-2G _____<br>ALP-3Y _____ |
| 5. Check the LP cross connect valves for smooth operation by opening and closing. Guidance O & M Manual.                                                                                                                                                                    | XC-1 _____<br>XC-2 _____                     |
| <b>NOTICE</b>                                                                                                                                                                                                                                                               |                                              |
| 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 _____<br>Green _____<br>Yellow _____     |
| <b>NOTICE</b>                                                                                                                                                                                                                                                               |                                              |
| 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 _____<br>Green _____<br>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. <b>Service any regulators that do not operate smoothly, Guidance O &amp; M Manual.</b> | Red _____<br>Green _____<br>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 _____<br>Green _____<br>Yellow _____     |





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

## MONTHLY INSPECTION & MAINTENANCE CHECKLIST

### APPENDIX A2.2

| RDC HP WHIP ASSEMBLIES                                                                                                                                                                                                                           |                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| PROCEDURES                                                                                                                                                                                                                                       | INITIALS                                                                               |
| <b>NOTICE</b>                                                                                                                                                                                                                                    |                                                                                        |
| 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 _____<br>Green _____<br>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 _____<br>Green _____<br>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 _____<br>HP-2R _____<br>HP-1G _____<br>HP-2G _____<br>HP-1Y _____<br>HP-2Y _____ |
| <b>NOTICE</b>                                                                                                                                                                                                                                    |                                                                                        |
| If HP valves do not operate smoothly they should be overhauled or replaced. Guidance O & M Manual.                                                                                                                                               |                                                                                        |

|                           |           |      |
|---------------------------|-----------|------|
| 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](mailto: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.



# 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<br><br>Date of last comparison: _____                                                                                                                                                                                                                                                                                                                                                                                                                   | Red _____<br>Green _____<br>Yellow _____                |
| 4. RDC <u>High</u> Pressure Gauges / every 24 months<br><br>Date of last comparison: _____                                                                                                                                                                                                                                                                                                                                                                                                     | Red _____<br>Green _____<br>Yellow _____                |
| 5. RDC <u>Low</u> Pressure Gauges / every 24 months<br><br>Date of last comparison: _____                                                                                                                                                                                                                                                                                                                                                                                                      | Red _____<br>Green _____<br>Yellow _____                |
| <b>XLDS Annual Relief Valve Lift Check</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| 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 _____<br>Green _____<br>Yellow _____                |
| 7. <b>Brass Circle Seal Relief:</b> Check set pressure of relief valve in accordance with O&M Manual overhaul procedure.                                                                                                                                                                                                                                                                                                                                                                       | Red _____ psig<br>Green _____ psig<br>Yellow _____ psig |
| 8. <b>Stainless Hylock® Relief:</b> Check set pressure of relief valve in accordance with O&M Manual overhaul procedure.                                                                                                                                                                                                                                                                                                                                                                       | Red _____ psig<br>Green _____ psig<br>Yellow _____ psig |



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

## ANNUAL INSPECTION & MAINTENANCE CHECKLIST

### APPENDIX A2.1

| RDC System Pressure Test                                                                                                                                                                                        |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| PROCEDURES                                                                                                                                                                                                      | INITIALS |
| 9. Complete a pressure test of RDC Console and High pressure Whip Assemblies using <u>XLDS Rapid Deployment Console Annual Pressure / Joint Tightness Test/Checklist</u> (Appendix A2.1A). Guidance O&M Manual. |          |

|                           |           |      |
|---------------------------|-----------|------|
| Technician's Printed Name | Signature | Date |
|---------------------------|-----------|------|

|                    |
|--------------------|
| Comments: (if any) |
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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](mailto:divelab@divelab.com)





## 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](http://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 _____<br>Green _____<br>Yellow _____     |
| 2. Remove the caps from ALP-1R, ALP-1G, ALP-1Y.                                     | ALP-1R _____<br>ALP-1G _____<br>ALP-1Y _____ |
| 3. Slowly open ALP-1R, ALP-1G, ALP-1Y and ensure all pressure is vented, then shut. | ALP-1R _____<br>ALP-1G _____<br>ALP-1Y _____ |
| 4. Ensure cross connect valves are closed.                                          | XC-1 _____<br>XC-2 _____                     |
| 5. Ensure pneumo valves are closed.                                                 | Red _____<br>Green _____<br>Yellow _____     |



CERTIFICATION SHEET

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

(Appendix A2.1A)

| 2. Pre-Test Requirements: continued                                                                                                                                                                                                                                                                                                     | INITIALS                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NOTICE</b>                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                   |
| For ease of testing, the testing should start with <b>Green Diver's</b> circuit, this allows testing of XC-1 and XC-2.                                                                                                                                                                                                                  |                                                                                                                                                   |
| <b>NOTICE</b>                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                   |
| 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.                                                                                                              |                                                                                                                                                   |
| <b>3. Pressure Testing Green Diver <u>High Pressure</u> Circuit</b>                                                                                                                                                                                                                                                                     |                                                                                                                                                   |
| <b>WARNING</b>                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                   |
| 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 <b>Green Divers</b> HP whip to <b>Green Divers</b> HP inlet on the console.                                                                                                                                                                                                                                                   |                                                                                                                                                   |
| 2. Attach both <b>HP-1G</b> and <b>HP-2G</b> 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.<br>Remarks: |                                                                                                                                                   |
| 3. Rotate in on the hand loader until tension is felt, usually 4-5 turns.                                                                                                                                                                                                                                                               |                                                                                                                                                   |
| 4. With both <b>HP-1G</b> and <b>HP-2G</b> valves closed, slowly open cylinder valves to <b>HP-1G</b> and <b>HP-2G</b> and allow the system to sit for at least 10 minutes. If there is any leakage through <b>HP-1G</b> and <b>HP-2G</b> it will show up on the <b>Green Diver's</b> LP gauge.                                         | Start Time _____<br>Stop Time _____<br>Start Pressure _____<br>Stop Pressure _____<br><input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| 5. Upon successful test above, back out on the regulator until it spins freely.                                                                                                                                                                                                                                                         |                                                                                                                                                   |



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(Appendix A2.1A)

| 3. Pressure Testing Green Diver <u>High Pressure</u> Circuit                                                                                                                                                                                                                                                                                              | INITIALS                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| continued                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |
| 6. Slowly open both <b>HP-1G</b> and <b>HP-2G</b> and bring up pressure to <b>Green Diver's</b> HP pressure gauge. Allow the pressure to stabilize for one - two minutes then shut <b>HP-1G</b> and <b>HP-2G</b> 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.<br>Remarks: | Start Time _____<br>Stop Time _____<br>Start Pressure _____<br>Stop Pressure _____<br><input type="checkbox"/> Pass <input type="checkbox"/> Fail              |
| <b>4. Pressure Testing Green Diver <u>Low Pressure</u> Circuit</b>                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |
| <b>NOTICE</b>                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                |
| This procedure tests the entire circuit for <b>Green Diver's</b> as well as the <b>Red</b> and <b>Yellow</b> 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 <b>Green Diver's</b> regulator until the LP gauge reads 375 psig.                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |
| 3. Allow the pressure to stabilize for 1-2 minutes then quickly back off <b>Green Diver's</b> 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.<br>Remarks:                                                         | _____psig<br>Start Time _____<br>Stop Time _____<br>Start Pressure _____<br>Stop Pressure _____<br><input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| 4. Upon successful test, vent all pressure from <b>Green Diver's</b> circuit.                                                                                                                                                                                                                                                                             |                                                                                                                                                                |
| <b>5. Pressure Testing Red Diver <u>High Pressure</u> Circuit</b>                                                                                                                                                                                                                                                                                         |                                                                                                                                                                |
| <b>WARNING</b>                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                |
| 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 <b>Red Diver's</b> HP whip to <b>Red Diver's</b> HP inlet on the console.                                                                                                                                                                                                                                                                       |                                                                                                                                                                |
| 2. Attach both <b>HP-1R</b> and <b>HP-2R</b> 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.<br>Remarks:                    |                                                                                                                                                                |





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

(Appendix A2.1A)

| 5. Pressure Testing Red Diver <u>High Pressure</u> Circuit<br>continued                                                                                                                                                                                                                                                                                                                                                                   | INITIALS                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. Rotate in on the hand loader until tension is felt, usually 4-5 turns.                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                   |
| 4. With both <b>HP-1R</b> and <b>HP-2R</b> 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 <b>HP-1R</b> and <b>HP-2R</b> it will show up on the <b>Red Diver's</b> LP gauge.                                                                                                                                                           | Start Time _____<br>Stop Time _____<br>Start Pressure _____<br>Stop Pressure _____<br><input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| 5. Upon successful test above, back out on the regulator until it spins freely.                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                   |
| 6. Slowly open both <b>HP-1R</b> and <b>HP-2R</b> and bring up pressure to <b>Red Diver's</b> HP pressure gauge. Allow the full test pressure to stabilize for one - two minutes, then shut <b>HP-1R</b> and <b>HP-2R</b> 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.<br>Remarks: | Start Time _____<br>Stop Time _____<br>Start Pressure _____<br>Stop Pressure _____<br><input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| <b>6. Pressure Testing Red Diver <u>Low Pressure</u> Circuit</b>                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                   |
| <b>NOTICE</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                   |
| This test tests the entire <b>Red Diver's</b> circuit from the inlet side of the one way valve to the out valve <b>ALP-1R</b> and the cross connect XC-1 feeding <b>Green Diver's</b> circuit.                                                                                                                                                                                                                                            |                                                                                                                                                   |
| 1. Ensure you have a minimum of 1000 psig supply to HP inlet pressure.                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                   |
| 2. Load Red Diver regulator until <b>Red Diver's</b> low pressure gauge reads 375 psig.                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                   |
| 3. Allow the pressure to stabilize for 1-2 minutes then quickly back off <b>Red Diver's</b> hand loader and vent the hand loader. The one-way valve should shut, and there should be a minimum of 350 psig on <b>Red Diver's</b> LP gauge. Record the start time and start pressure. The minimum test time is 10 minutes. Minimum test pressure is 350 psig.                                                                              | Start Time _____<br>Stop Time _____<br>Start Pressure _____<br>Stop Pressure _____<br><input type="checkbox"/> Pass <input type="checkbox"/> 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 <b>Red Diver's</b> circuit.                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                   |



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(Appendix A2.1A)

| 7. Pressure Testing Yellow Diver <u>High Pressure</u> Circuit                                                                                                                                                                                                                                                                                              | INITIALS                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WARNING</b>                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                           |
| 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 <b>Yellow Diver's</b> HP whip to <b>Yellow Diver's</b> HP inlet on the console.                                                                                                                                                                                                                                                                  |                                                                                                                                                           |
| 2. Attach both <b>HP-1Y</b> and <b>HP-2Y</b> 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.<br>Remarks:                    |                                                                                                                                                           |
| 3. Rotate in on the hand loader until tension is felt, usually 4-5 turns.                                                                                                                                                                                                                                                                                  |                                                                                                                                                           |
| 4. With both <b>HP-1Y</b> and <b>HP-2Y</b> 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 <b>HP-1Y</b> and <b>HP-2Y</b> it will show up on the Yellow Divers LP gauge.                                                                                 | Start Time _____<br>Stop Time _____<br><br>Start Pressure _____<br>Stop Pressure _____<br><br><input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| 5. Upon successful test above, back out on the regulator until it spins freely.                                                                                                                                                                                                                                                                            |                                                                                                                                                           |
| 6. Slowly open both <b>HP-1Y</b> and <b>HP-2Y</b> and bring up pressure to <b>Yellow Diver's</b> HP pressure gauge. Allow the pressure to stabilize for one - two minutes then shut <b>HP-1Y</b> and <b>HP-2Y</b> 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.<br>Remarks: | Start Time _____<br>Stop Time _____<br><br>Start Pressure _____<br>Stop Pressure _____<br><br><input type="checkbox"/> Pass <input type="checkbox"/> Fail |



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(Appendix A2.1A)

| 8. Pressure Testing Yellow Diver <u>Low Pressure</u> Circuit                                                                                                                                                                                                                                                                                                 | INITIALS                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NOTICE</b>                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                   |
| This test tests the entire <b>Yellow Diver</b> circuit from the inlet side of the one way valve to the out valve <b>ALP-1Y</b> and the cross connect XC-2 feeding <b>Yellow Diver's</b> circuit.                                                                                                                                                             |                                                                                                                                                   |
| 1. Ensure you have a minimum of 1000 psig supply to HP inlet pressure.                                                                                                                                                                                                                                                                                       |                                                                                                                                                   |
| 2. Load <b>Yellow diver's</b> 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 <b>Yellow Diver's</b> LP gauge. Record the start time and start pressure. The minimum test time is 10 minutes. Minimum test pressure is 350 psig. | Start Time _____<br>Stop Time _____<br>Start Pressure _____<br>Stop Pressure _____<br><input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| 4. Upon successful pressure test, vent all pressure from <b>Yellow Diver's</b> 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.<br>Remarks:                                                                                                                                                                            |                                                                                                                                                   |

|                    |
|--------------------|
| Comments: (if any) |
|                    |

|                             |           |      |
|-----------------------------|-----------|------|
| Technician's Name (printed) | Signature | Date |
|                             |           |      |

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](mailto:divelab@divelab.com)