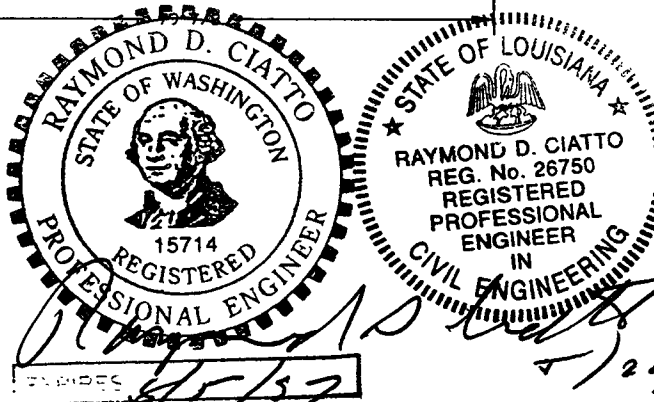


ITEM	PART NUMBER	SUFFIX	QTY	UM	DESCRIPTION
1	V049405B		1	EA	FLANGE, FLAT FACED, 44 5/8" ID x 68 1/4" OD
2	V0494060		1	EA	FLANGE, GROOVED, 44 5/8" ID x 52" OD
3					
4	V049M026		1	EA	D-RING, VITRON (PER SPEC V049-2-045)
5	V049M027		1	EA	D-RING, VITRON (PER SPEC V049-2-045)
6	***		3	EA	TIE-ROD ASSY (PER V049-4-124)
7	V0494A14P1		1	EA	BELLOWS ASSY (PER SPEC V049-2-017)
8	V0494059G1		1	EA	SHIPPING COVER ASSY
9	V0494080G4		1	EA	SHIPPING COVER ASSY
10	V0494H742		1	EA	PSI NAME PLATE, 2" X 3"
11					
12	202678	3	54	EA	BOLT, SA 193 B7, HEX HD 7/8-9UNC X 4" LG.
13	202679	3	54	EA	NUT, SA 194 2H, HEX 7/8-9UNC
14	202581	3	138	EA	WASHER, SA 193 B7, 1 3/4" O.D X 15/16" I.D X 1/4" THK.
15	V0494061		1	EA	3/4" O.D. ELBOW x 2 3/4" O.D. CF.
16					

\* ELECTROLESS NICKEL PLATE  
 \*\*\* SUPPLIED BY BELLOWS VENDOR

- NOTES:
13. VDS NO'S. REFER TO WELD DATA SPEC. V049-2-084.
  12. PLATES PRIOR TO ROLLING MUST HAVE DIAGONAL CORNER TO CORNER DIMENSIONS WITHIN 1/16" OF EACH OTHER.
  11. EACH FINISHED SHELL IS TO BE MARKED WITH A SEQUENTIAL PSI SERIAL NUMBER THE NUMBER IS TO BE MADE FROM THE DRAWING PLUS THE SEQUENTIAL NUMBER. V0494A14-01, -02 ETC.
  10. LEAK TEST & METHOD PER PSI SPEC. V049-2-014
  9. CERTIFIED MANUFACTURER'S MATERIAL TEST REPORTS REQUIRED, AS NOTED.
  8. BOLT HOLES OF ALL FLANGES TO STRADDLE VERTICAL CENTERLINE +/- .015.
  7. CLEAN PER SPEC. V049-2-015
  6. DO NOT USE CARBON STEEL BRUSHES OR BRUSHES CONTAMINATED WITH CARBON STEEL ON STAINLESS OR ALUMINUM MATERIAL.
  4. ADAPTER FABRICATION TO BE IN ACCORDANCE WITH SPEC. V049-2-097.
  3. FOR FLANGE DETAILS SEE DWG. V049-4-058 & 060
  2. THIS FLANGE INCLUDES AN ANNULAR CHANNEL BETWEEN D-RINGS, FOR A SINGLE PUMPOUT PORT, SEE DWG V049-4-061.
  1. TIGHTEN TIE-ROD NUTS WITH BELLOWS IN "FREE" POSITION TO 100 FT-LB PRIOR TO LEAK TEST

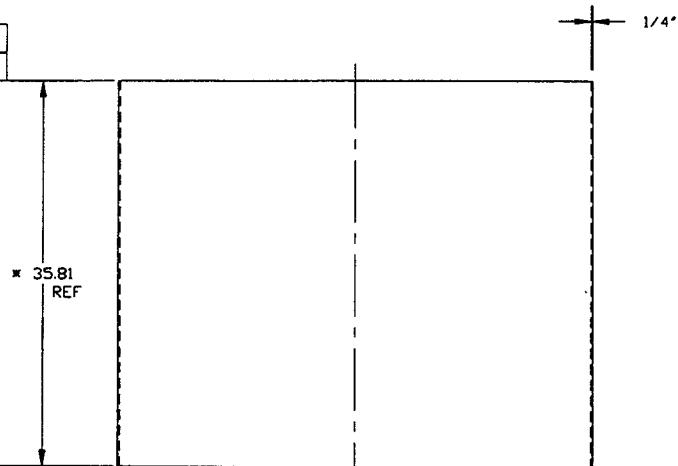


TAG NO'S: WA-14A, WA-14B

APPROX. WEIGHT: 1608#

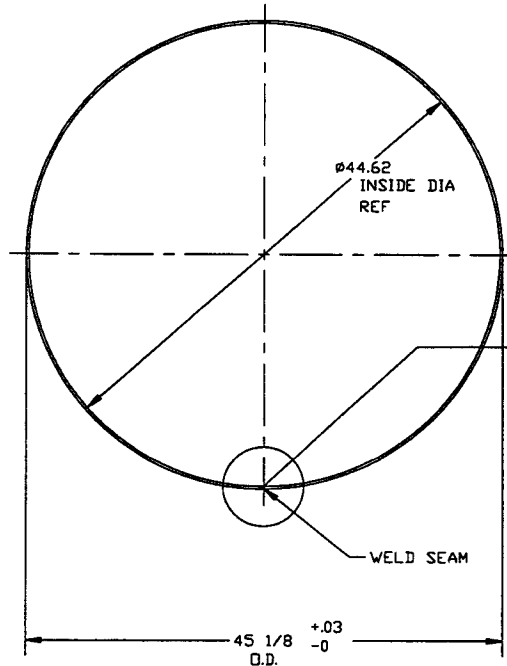
<p>PROPRIETARY AND CONFIDENTIAL</p> <p>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION BELONGING TO PROCESS SYSTEMS INTERNATIONAL, INC. OR ITS AFFILIATED COMPANIES AND SHALL BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED IN WHOLE OR IN PART TO OTHERS EXCEPT IN ACCORDANCE WITH THE TERMS OF ANY AGREEMENT UNDER WHICH IT WAS SUPPLIED OR WITH THE PRIOR WRITTEN CONSENT OF PROCESS SYSTEMS INTERNATIONAL, INC. AND SHALL BE RETURNED UPON REQUEST.</p>				<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES:</p> <p>FRACTIONAL ± .1</p> <p>ANGULAR HATCH .01-.20° INCHES ± .03</p> <p>THREE PLACE DECIMAL ± .005</p> <p>FINISHED SURFACE RUC</p> <p>BREAK CORNERS IN DUT</p> <p>REMOVE ALL BURRS</p>				<p>3 REISSUED FOR FAB/SHIPPING AS NOTED</p> <p>2 DESIGN UPDATE</p> <p>1 DESIGN UPDATE / FABRICATION (BELLOWS ASSY ONLY)</p> <p>0 ISSUED FOR FDR</p>				<p>PROCESS SYSTEMS INTERNATIONAL, INC.</p> <p>20 WALKUP DR. WESTBOROUGH, MASSACHUSETTS 01581 USA</p> <p>ADAPTER A-14</p> <p>44 5/8" I.D. X 60 1/2" I.D.</p> <p>LIGO VACUUM EQUIPMENT</p>			
<p>DO NOT SCALE THIS DRAWING</p> <p>USED ON</p> <p>NEXT ASS'Y:</p>				<p>REV</p> <p>DESCRIPTION</p> <p>ISSUE DESCRIPTION</p>				<p>CAD FILE: 4A14S1</p> <p>SIZE: D</p> <p>DWG NO: V049-4-A14</p> <p>REV: 3</p> <p>SCALE: 1-1/2" = 1"</p> <p>SHEET: 1 OF 2</p>							

▧ .015  
// A .03

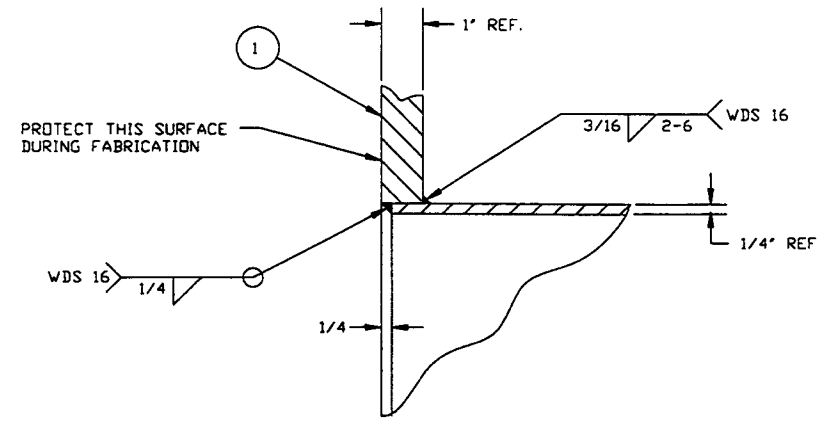
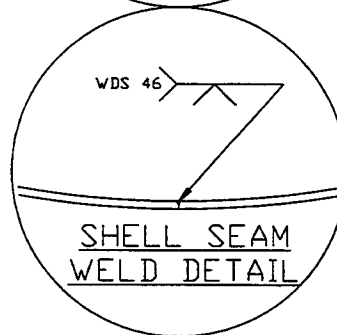
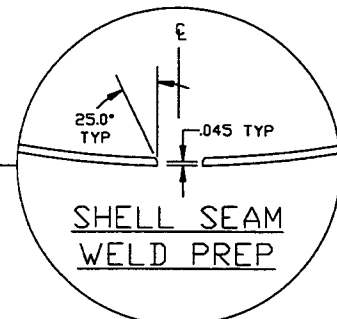


▧ .015  
-A-

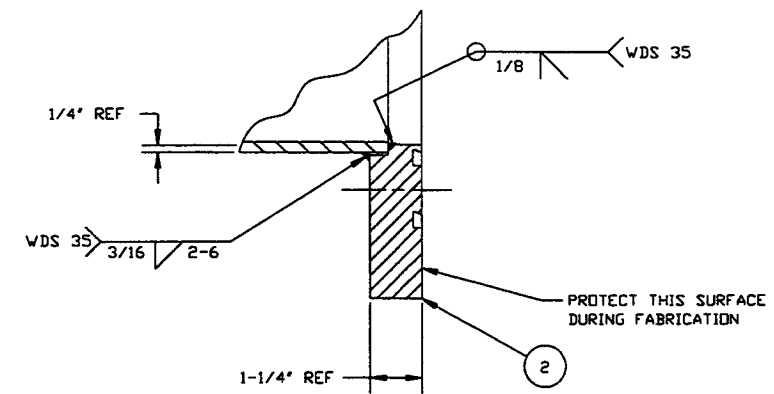
\* FINAL FINISHED LENGTH TO BE DETERMINED BY BELLOWS VENDOR



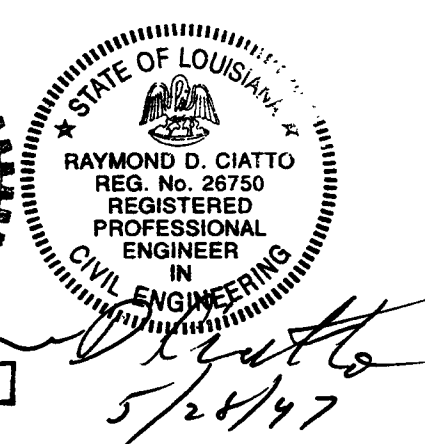
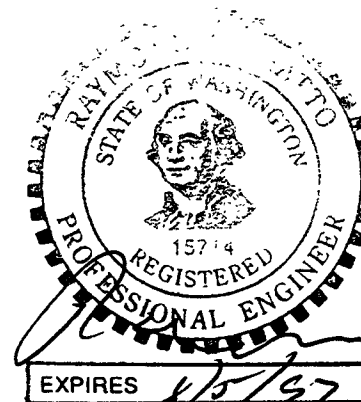
**DETAIL "1"**  
QTY: 2  
MAKE FROM V049M178-1



**DETAIL "7"**



**DETAIL "8"**



<b>PROCESS SYSTEMS INTERNATIONAL INC.</b> 20 WALKUP DR. WESTBOROUGH, MASSACHUSETTS 01581 USA			
ADAPTER A-14 44 5/8" I.D. x 60 1/2" I.D. LIGD VACUUM EQUIPMENT			
CAD FILE 4A14S2	SIZE D	DWG. NO. V049-4-A14	REV. 3
SCALE AS NOTED	SHEET 2	OF 2	