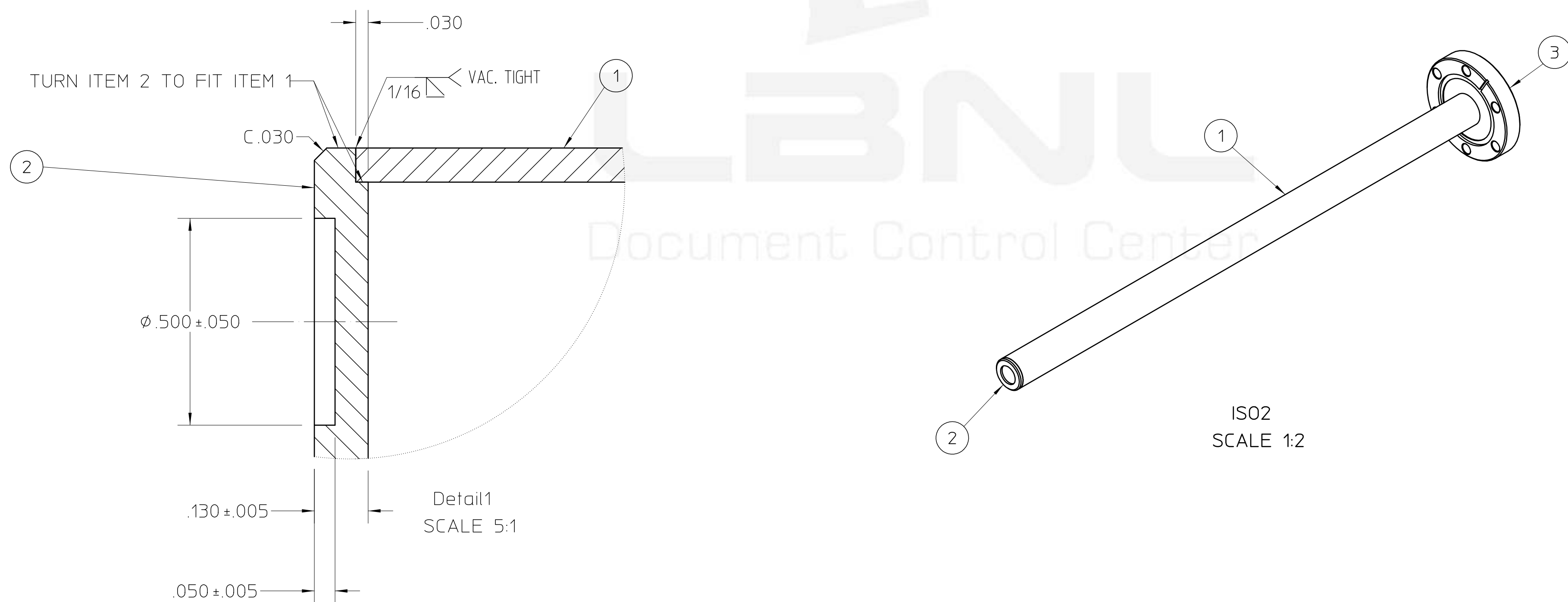




1. Welds must meet ASME Pressure Vessel code, Section VIII, subsection UW for cleaning, heat treatment and weld process.
2. Welder must be ASME certified for Pressure Vessels.
3. Material certification required
4. Part for both pressure and high vacuum service
5. Min. vac. leak test sensitivity  $2 \times 10^{-10}$  atm-cc/s

| ITEM | REQD | PART NO. | DESCRIPTION                                                  |
|------|------|----------|--------------------------------------------------------------|
| 1    | 1    |          | PIPE, TP304, 1/2" SCH. 10, ASME SA312 (ASTM A-312)           |
| 2    | 1    |          | WINDOW, STAINLESS STEEL 304, PER ASME SA240 (ASTM A-240)     |
| 3    | 1    |          | FLANGE, CF, 2.75 OD, BLANK, CLR. HOLE MDC P/N 110008 OR EQV. |

|     |        |          |      |                    |                                            |                        |  |                                                                                       |  |                       |         |                                                                                       |       |
|-----|--------|----------|------|--------------------|--------------------------------------------|------------------------|--|---------------------------------------------------------------------------------------|--|-----------------------|---------|---------------------------------------------------------------------------------------|-------|
|     |        |          |      |                    | UNLESS OTHERWISE SPECIFIED                 | PROJECT NAME:          |  | ERNEST ORLANDO LAWRENCE                                                               |  |                       |         |  |       |
|     |        |          |      |                    | X±.05 .XX±.01 .XXX±.005                    | PROJECT NUMBER:        |  | BERKELEY NATIONAL LABORATORY                                                          |  |                       |         |                                                                                       |       |
|     |        |          |      |                    | FRACTIONS: ± 1/64                          | SHOWN ON: 26K514       |  | UNIVERSITY OF CALIFORNIA                                                              |  |                       |         |                                                                                       |       |
|     |        |          |      |                    | ANGLES: ± 0.2°                             |                        |  | HIGH PRESSURE XENON TIME PROJECTION CHAMBER                                           |  |                       |         |                                                                                       |       |
|     |        |          |      |                    | MACH. SURFS.: 125✓<br>OR<br>BETTER         | DO NOT SCALE PRINT     |  | CATEGORY CODE:                                                                        |  | GAS SYSTEM            |         |                                                                                       |       |
|     |        |          |      |                    | REF: ASME Y14.5M-1994, THREADS ARE CLASS 2 | SCALE: 1 : 1           |  | RP3030                                                                                |  | SOURCE INSERTION TUBE |         |                                                                                       |       |
|     |        |          |      |                    | BREAK EDGES .016 MAX. ON MACHINED WORK     | THIRD ANGLE PROJECTION |  |  |  |                       |         |                                                                                       |       |
| VER | AUTHOR | APPROVER | DATE | CHANGE DESCRIPTION | REMOVE BURRS, WELD SPLATTER & LOOSE SCALE  |                        |  | 1                                                                                     |  | SHEET OF 1            | SIZE: D | DWG NO: 26K513                                                                        | VER B |