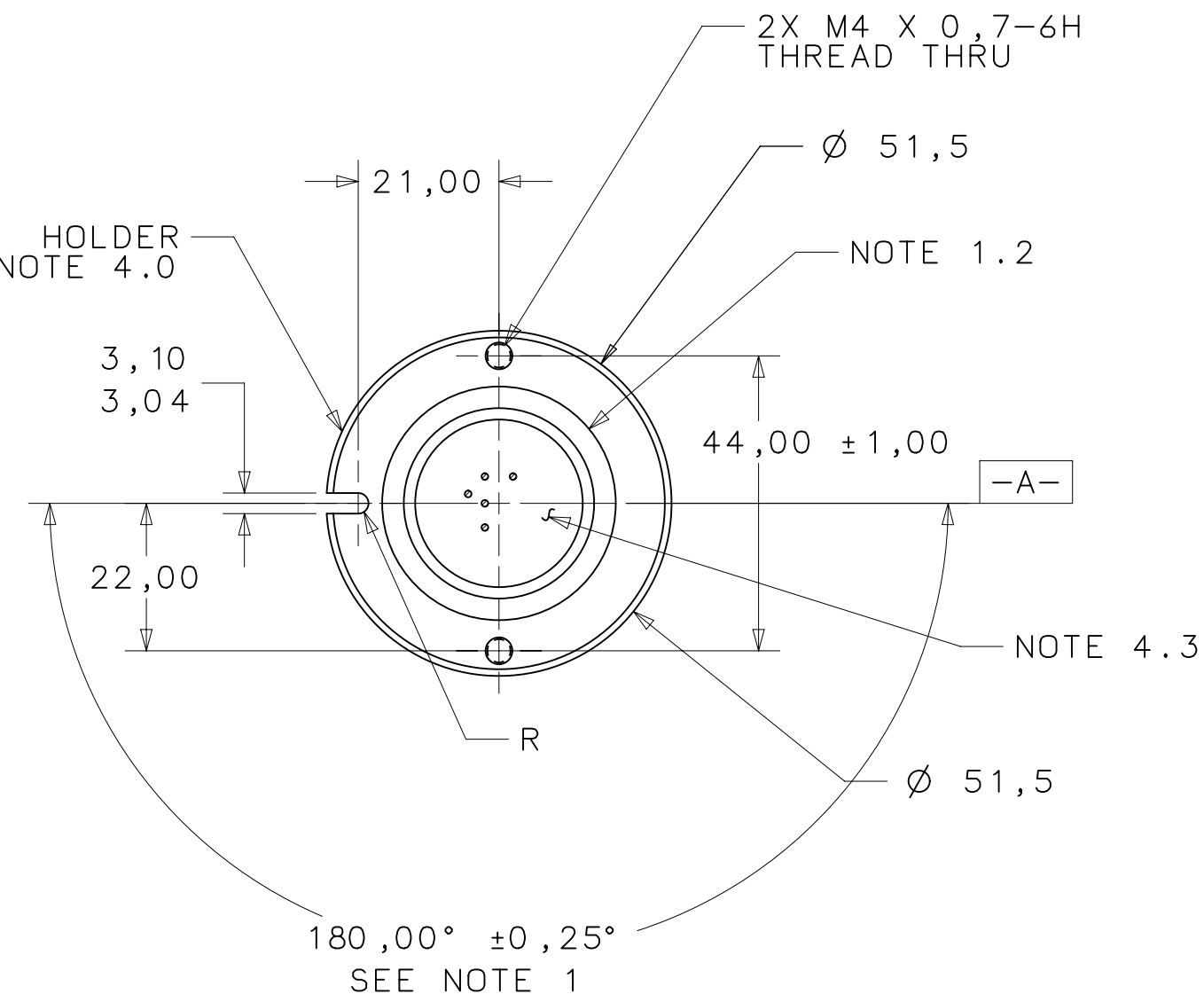
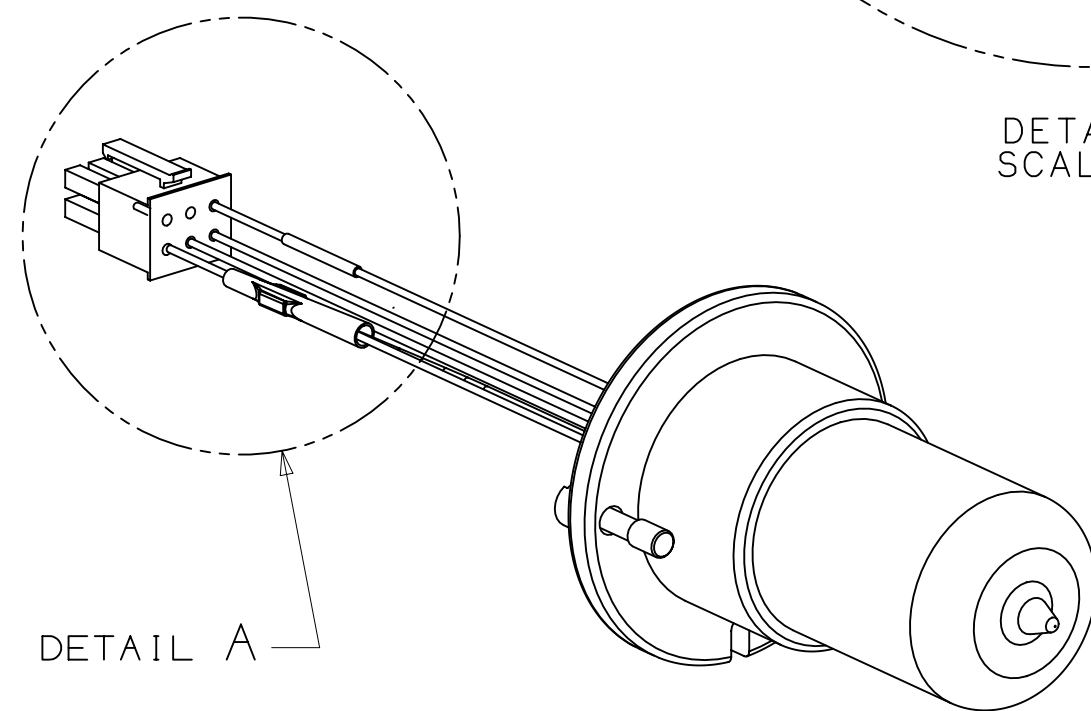
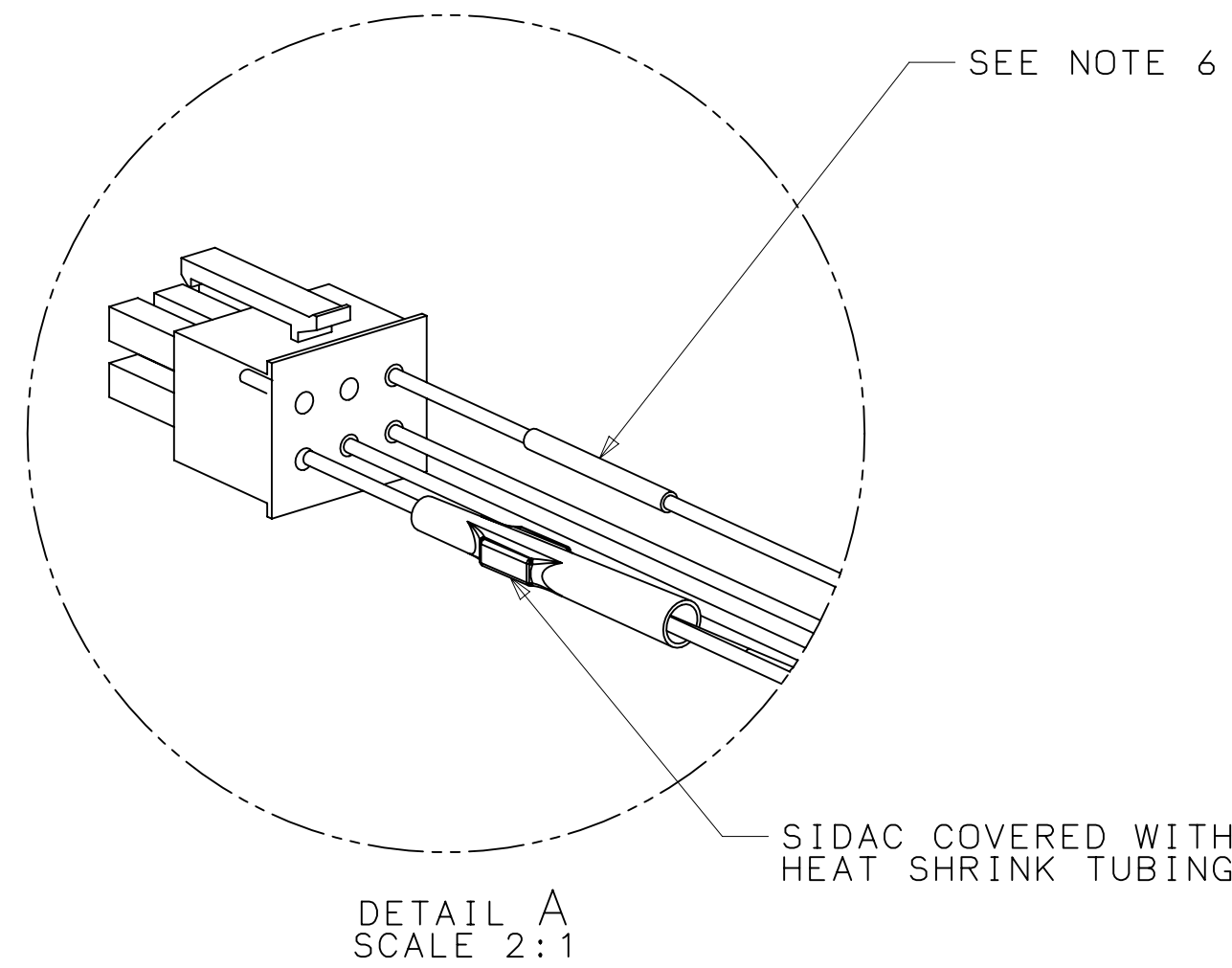
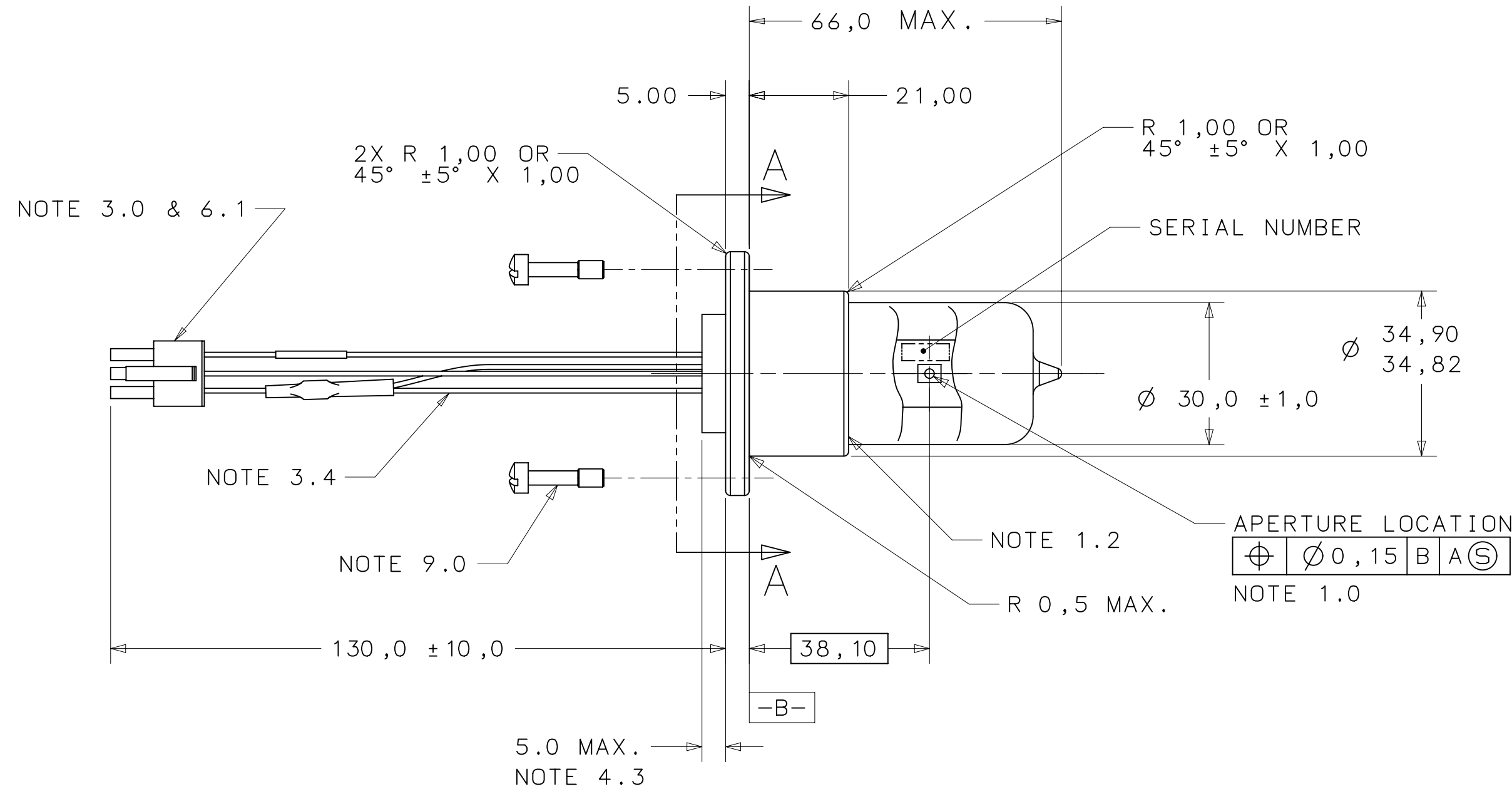
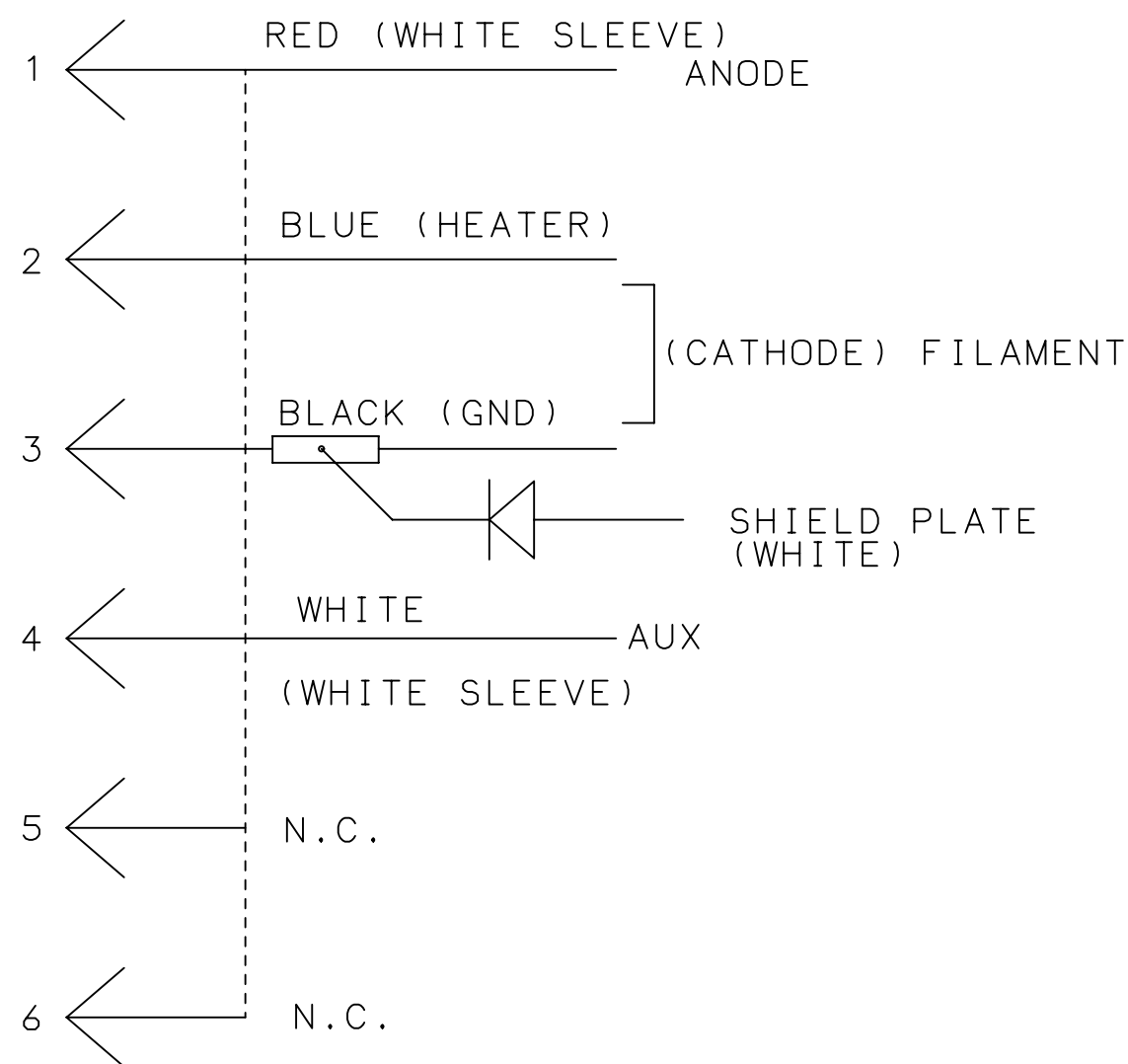




VIEW A-A
CAPTIVE SCREWS NOT SHOWN

CONNECTOR PIN-OUT



NOTES:

1.0 ASSEMBLY NOTES:

- 1.1 LAMP APERTURE SHALL BE ALIGNED TO THE POSITION SHOWN WHILE THE LAMP IS HOT (RUNNING).
- 1.2 POTTING MATERIAL: INORGANIC ADHESIVE CEMENT
- 1.3 CATHODE WELDING: NICKEL LASER WELDING

2.0 LAMP NOTES:

- 2.1 DESCRIPTION: LAMP, DEUTERIUM, HIGH BRIGHTNESS
- 2.2 TECHNICAL DATA:
 - SPECTRAL DISTRIBUTION: 185 TO 900 nm
 - WINDOW MATERIAL: UV GLASS
 - APERTURE SIZE: CIRCULAR (Ø 0,5 mm)
 - COLOR CODING OF CABLES: ANODE: RED (WITH SLEEVE)
 - FILAMENT: (HEATER) BLUE
 - CATHODE: BLACK
 - AUX: WHITE (WITH SLEEVE)
 - STARTING VOLTAGE (Vdc): 400 (MAX)
 - OPERATING VOLTAGE (Vdc): 70-100 INITIAL ANODE-CATHODE
 - OPERATING CURRENT (mAdc): 110 MAX OVER LAMP LIFE
 - FILAMENT CURRENT, STARTING: 300 (±30)
 - FILAMENT CURRENT, OPERATING: 4.0 AMPS
 - FILAMENT VOLTAGE, STARTING: 3.3 AMPS
 - FILAMENT VOLTAGE, OPERATING: 2.5 ± 0.25 Vdc
 - ARC DIAMETER (mm): 1.7 ± 0.20 Vdc
- 2.3 OPERATING CHARACTERISTICS:
 - LIFE: (0,5)
 - TO 50% OF INITIAL RADIANCE
 - AT 230 nm, BANDWIDTH=4 nm, AT 300 mAdc: 1000 HR. MIN.
 - LAMP SHALL LIGHT REGARDLESS OF RADIANCE FOR 2000 HRS. MIN.
 - RADIANCE DEGRADATION NOT TO EXCEED -.18%/HR. UNDER ABOVE CONDITIONS. LAMPS SHALL BE BURNED IN UNTIL THE DEGRADATION RATE IS LESS THAN THIS MAXIMUM (72 HRS. TYP).

3.0 CONNECTOR NOTES:

- 3.1 LAMP IS TO BE SUPPLIED WITH ELECTRICAL CONNECTOR.
- 3.2 PLUG: MOLEX P/N 039-01-2060.
- 3.3 TERMINALS (QTY.= 4): MOLEX P/N 39-00-0428 (LOOSE).
- 3.4 LEADS: ANODE (RED) TO PIN 1 AND AUX (WHITE) TO PIN 4. OF CONNECTOR MUST BE SLEEVED WITH UL STD 1441, 200°C-600V SILICONE COATED FIBERGLASS SLEEVING (WHITE).
- FILAMENT: PIN 2 BLUE
- PIN 3 (GND) BLACK
- SHIELD BOX: TO SIDAC ANODE (WHITE)
- 3.5 SIDAC: P/N G1V(A)20C
- CATHODE CONNECTED TO GROUND WIRE (BLACK) VIA SPLICE AND COVERED WITH HEAT SHRINK TUBING.
- ANODE CONNECTED TO THE SHIELD COVER WIRE (WHITE).

4.0 HOLDER NOTES:

- 4.1 MATERIAL: ALUMINUM
- 4.2 FINISH: ANODIZE CLEAR
- 4.3 SI POTTING COMPOUND OR A MECHANICAL OPAQUE CAP MUST BE USED SUCH THAT NO LIGHT BE VISIBLE FROM REAR OF LAMP DURING OPERATION.
- 4.4 ALL DIMENSIONS APPLY AFTER FINISHING.

5.0 PACKAGING NOTES:

- 5.1 LAMP TO BE PACKAGED IN LINT FREE, SHOCK RESISTANT BOXES: 3'X3'X5' WHITE BOX LABELED WITH WATERS P/N 402000351.

6.0 EACH LAMP SHALL BE LABELED WITH THE WORD "WATERS" AND WATERS P/N 402000351. THIS LABEL IS TO BE AFFIXED TO THE LEADS APPROXIMATELY WHERE SHOWN.

- 6.1 EACH LAMP SHALL BE MARKED WITH DATE CODE, APPROXIMATELY 3 X 9 mm.

7.0 ALL DIMENSIONS ARE IN MILLIMETERS. TOLERANCES ON DIMENSIONS: .XX=±0,3; .XXX=±0,13; ANGLES=±0.5°, UNLESS OTHERWISE SPECIFIED.

8.0 THIS PART HAS BEEN CLASSIFIED AS A "SPECIAL PROCESS" PART. ANY CHANGES TO THIS DRAWING SHALL BE REVIEWED FOR IMPACT ON THE WATERS "SPECIAL PROCESSES" QUALIFICATION. CONSULT SOP DOCUMENT WAT077156SO FOR REVIEW PROCESS.

9.0 INSTALL TWO (2) CAPTIVE SCREWS, WATERS P/N WAT081213, AS SHOWN.

10.0 APPROVED SOURCE(S): HAMAMATSU P/N: L9790-AP

11.0 SIDAC WAS REPLACED STARTING WITH S/N HX6281

SOURCE CONTROL DRAWING

FOR DIMENSION AND TOLERANCING USE BS 8888	UNLESS OTHERWISE SPECIFIED All dimensions are in millimeters Remove all burrs and break sharp edges. Tolerances: Decimals 0.00 = ± 0.02 0.00 = ± 0.01 ISO Coarse Threads: BS3643 Class: 6H/6g SURFACE ROUGHNESS DO NOT SCALE PRINT	DESIGN MIKE LEVEILLE 28JUN12 DRAWN R. REYNOLDS 28JUN12 CHECKED N/A ENGR MIKE LEVEILLE 28JUN12 ENGR N/A APPD N/A	Waters 34 Maple Street Milford, Massachusetts 01757-3696 U.S.A. TITLE ASSY, HB DEUTERIUM LAMP SIZE DWG NO D 40 2000 351 SCALE 1:1 VERSION 01 SHEET 1 OF 1
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