NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DRAWING IAW THE GLOBAL PROFESSIONAL PUBLICATIONS "DRAWING REQUIREMENTS MANUAL", EIGHTH EDITION.
2. INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M – 1982.
3. INTERPRET ABBREVIATIONS IAW MIL–STD–12.

4. WARNING:
WATER FITTINGS HAVE A CLEAR ID OF .375 INCHES. USING A SLEEVE OR SIMILAR DEVICE INSIDE THE WATER HOSE MAY CAUSE FLUID RESTRICTIONS AND INTERFERENCE WITH THE NORMAL OPERATION OF THE CATHODE AND THEREFORE IS NOT RECOMMENDED.

5. WATER CHANNELS ARE SYMMETRICAL THROUGHOUT, ORIENTATION OF WATER INLET OR OUTLET IS NOT CRITICAL.

6. WARNING:
MINIMUM HOSE LENGTH OF 60" IS REQUIRED TO ENSURE RESISTIVITY RELATIVE TO ELECTRICAL GROUND WITHIN 50 KILO OHMS. TEST CABLE WITH AN OHM METER OR OTHER SUITABLE DEVICE BEFORE USE. DO NOT USE METAL TUBING! POLYETHYLENE RECOMMENDED.

7. SWAGELOCK UNION FITTING, 1/8" OD TUBE IS SUPPLIED WITH SOURCE AND ALSO AVAILABLE FROM SWAGELOK COMPANY
HTTP://WWW.SWAGELOK.COM
OR
SAN DIEGO FLUID SYSTEM TECHNOLOGIES
6350 NANCY RIDGE DRIVE, SUITE 101
SAN DIEGO, CA 92121
(858) 320–4000
SWAGELOK P/N SS–200–6

SWAGELOCK FITTING, 1/8" OD TUBE IS WELDED TO UTILITY CONNECTION MODULE.

8. TUBING, TEFLON, PFA IS AVAILABLE FROM:
MC MASTER CARR
9630 NORWALK BLVD
SANTA FE SPRINGS, CA 90670–2932
VOICE: (310) 692–5911
FAX: (310) 695–2323
MCMASTER–CARR P/N 5180K51

9. WATER LINE TUBE UNION, IS AVAILABLE FROM:
ALPHA TECHNOLOGIES
320 PREMIER COURT, SUITE 222
FRANKLIN, TN 37067
TEL: (615) 771–6650
APHA PART NUMBER 88040–06

10. SEE MATERIALS SCIENCE, INC. DOCUMENT NO. 251092 FOR PROPER INSTALLATION, OPERATION AND USE OF SUNSOURCE SPUTTERING SOURCES.

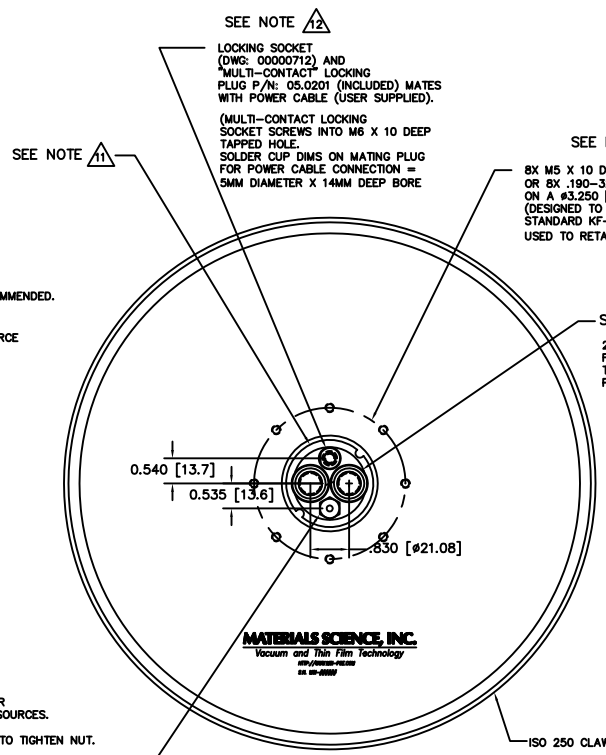
11. MATERIALS SCIENCE P/N 00000680 SPANNER WRENCH REQUIRED TO TIGHTEN NUT.
FEDERAL SPEC GGG–W–665b.
ADJUSTABLE UP TO 2".
OVERALL LENGTH: 6 3/8"
PIN DIAMETER: 3/16"
PIN HEIGHT: 1/8"

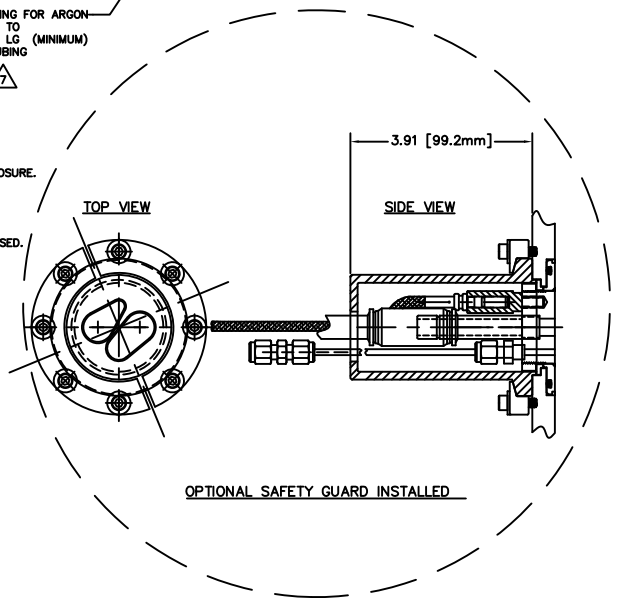
12. MULTI–CONTACT–USA:
5560 SKYLANE BLVD.
SANTA ROSA, CA 95403
VOICE: (707) 575–7575
FAX: (707) 575–7373
INTERNET:
HTTP://WWW.MULTI–CONTACT–USA.COM
P/N 05.0201 LOCKING PLUG IS SUPPLIED WITH SOURCE.

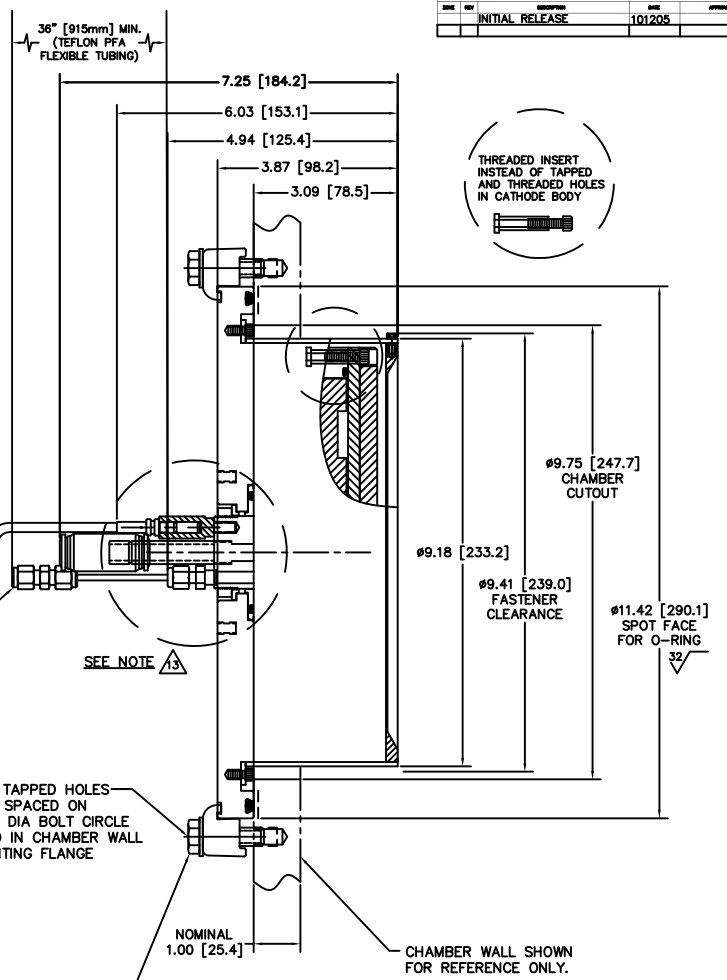
13. OPTIONAL INSULATING SAFETY GUARD CAN BE PROVIDED IF USER DOES NOT SUPPLY RECOMMENDED INTERLOCKED SAFETY ENCLOSURE.

14. MASS OF SOURCE FULLY ASSEMBLED IS 50 LBS. [22,7 KG]DRY.

15. ADD .100 [2.54] WHEN 0.50 [12,7] THICK CLAMPED TARGETS ARE USED. A TALLER SET OF SIDE ANODE/GROUND SHIELDS ARE REQUIRED TO MAINTAIN THE PROPER DARK SPACE GAP WHEN CLAMPED TARGETS ARE USED. BONDED AND DIRECTLY WATER COOLED TARGETS USE THE STANDARD SIDE SHIELDS SHOWN AND DIMENSIONED.







REVISION				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	101205	

INSTALLATION CONTROL DRAWING

CAGE CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ZONE	ITEM NO
QUANTITY PER ASSEMBLY		PARTS LIST			

DRAWN J. MILLER 10/12/05
MATERIALS SCIENCE, INC. Vacuum and Thin Film Technology

SUNSOURCE, 8 INCH FLANGE MOUNT, INSTALLATION CONTROL

SIZE E | CAGE CODE | DWG NO. 00002142 | REV —
SCALE 1/1 | WT. | SHEET 1 OF 1

NEXT ASSEMBLY | USED ON
APPLICATION | DO NOT SCALE DRAWING

00000847