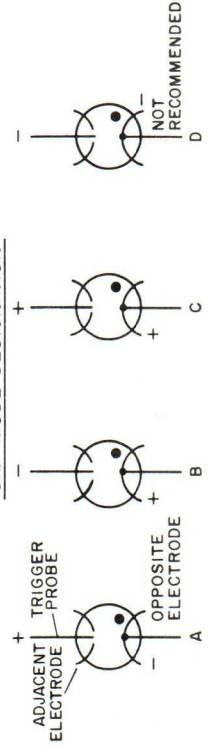


TRIGGERED SPARK GAP RATING SHEET

TRIGGERED SPARK GAP MODEL NO.	OPERATING RANGE (NOTE 1)		STATIC BREAKDOWN POTENTIAL (2)	PEAK CURRENT AMPLITUDE (3)	PEAK CURRENT DURATION (3)	ENERGY DISCHARGE (3)	MINIMUM TRIGGER POTENTIAL (4)	MODE TYPE (5)	DELAY TIME (6)	GAP CONSTRUCTION	RECOMMENDED TRIGGER TRANSFORMERS (7,8)	REFERENCE DRAWING NUMBER
	MIN KVDC	MAX KVDC										
GP-11 B	1.3	3.4	4.2	5,000	20	25	5.5	C	0.10	GC	TR-148A, 132A or 164A	1
GP-12 B	10	24	30	100,000	10	2500	20	A	0.03	C	TR-60,69, or 153	2
GP-14 B	12	36	42	100,000	10	2500	20	A	0.03	C	TR-60,69, or 153	2
GP-15 B	25	69	86	100,000	10	4000	20	A	0.03	C	TR-60,69, or 153	3
GP-16 B	0.7	2.1	2.6	5,000	20	25	5	C	0.10	GC	TR-148A, 132A or 164A	1
GP-17 B	4.4	10	12.5	5,000	20	25	7	A	0.10	GC	TR-148A, 132A or 164A	1
GP-20 A	3.5	11	14	15,000	20	200	10	A	0.10	C	TR-148A, 132A or 180	4
GP-22 B	6	15	19	100,000	10	2500	20	A	0.03	C	TR-60,69, or 153	2
GP-30 B	2	6	7.5	100,000	10	2500	20	A	0.03	C	TR-60,69, or 153	2
GP-31 A	2	6	7.5	15,000	20	200	10	A	0.10	C	TR-148A, 132A or 180	4
GP-32 B	20	48	60	100,000	10	4000	20	A	0.03	C	TR-60,69, or 153	3
GP-39	8	20	25	5,000	20	25	7	A	0.10	GC	TR-148A, 132A or 164A	5
GP-41 B	12	36	42	100,000	10	4000	20	A	0.03	C	TR-60,69, or 153	3

NOTES:

- 1 Gaps should never be operated above maximum operating voltage.
- 2 Represents main gap breakdown with no trigger voltage applied.
- 3 These ratings can be exceeded at a sacrifice in tube life.
- 4 Values of trigger potential contain adequate safety factor to meet end of life requirements.
- 5 Mode suggested will give shortest delay times with the widest operating range.
- 6 Delay times are measured at maximum operating voltage.
- 7 TM-11 Trigger Module can be used to trigger all gaps. See TM-11 data sheet.
- 8 Transformer types vary mechanically and also electrically in pulse shape.

GAP MODE DESIGNATION


- NOTES:
1. GLASS SHALL BE FREE FROM CRACKS, BLISTERS, AND FOREIGN MATTER.
 2. GLASS SHALL BE FREE OF CHIPS AND HOLES 0.016 OR LARGER IN ANY DIM.
 3. BUBBLES NEAR SURFACE OF THE GLASS, NOT CAUSE FOR REJECTION.
 4. PROBE SHALL BE TINED TO $\frac{1}{16}$ NOMINAL FROM TIP.

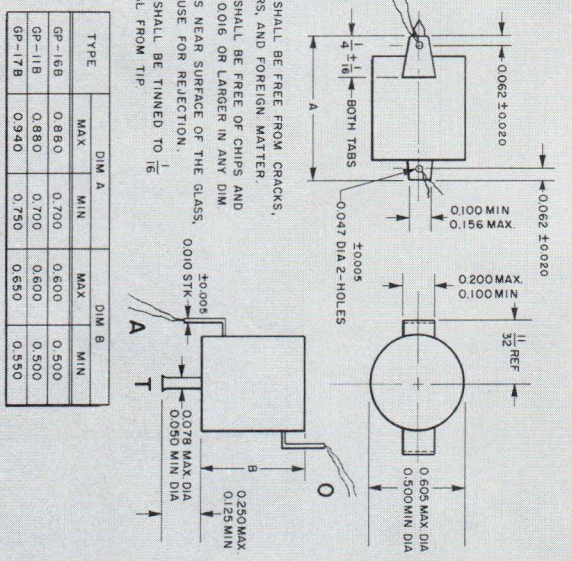


FIGURE 1. GP-11B, GP-16B AND GP-17B

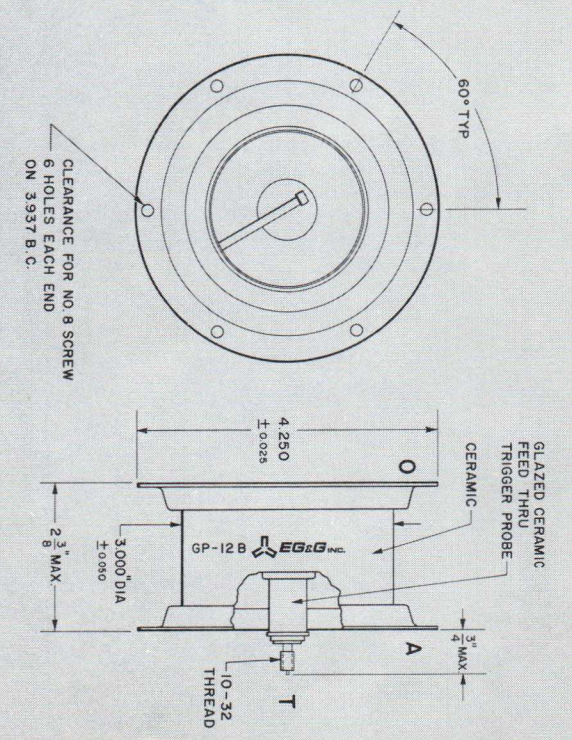


FIGURE 2. GP-12B, GP-14B, GP-22B AND GP-30B

A = ADJACENT ELECTRODE, O = OPPOSITE ELECTRODE,

T = TRIGGER PROBE

TYPE	DIM A		DIM B	
	MAX	MIN	MAX	MIN
GP-16B	0.880	0.700	0.600	0.500
GP-11B	0.880	0.700	0.600	0.500
GP-17B	0.940	0.750	0.650	0.550

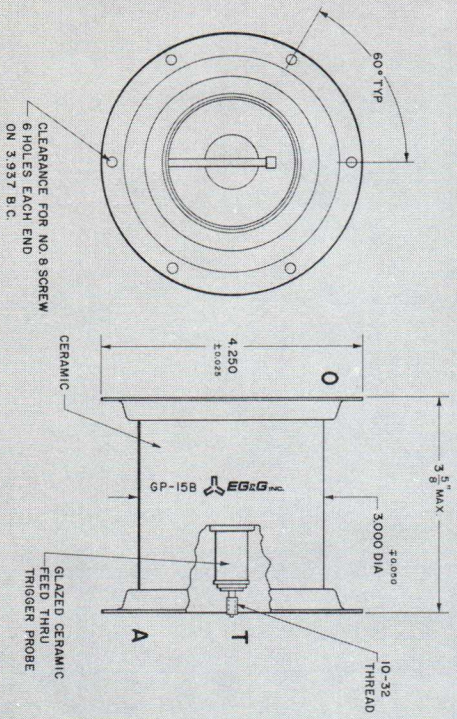


FIGURE 3. GP-15B, GP-32B, AND GP-41B

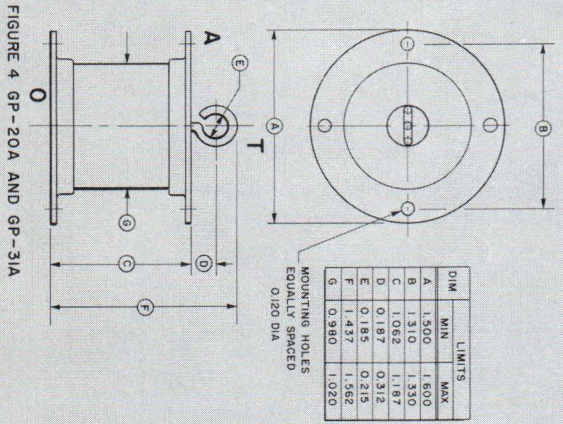


FIGURE 4 GP-20A AND GP-31A

DIM	LIMITS	
	MIN	MAX
A	1.500	1.600
B	1.312	1.320
C	1.162	1.200
D	0.187	0.312
E	0.185	0.215
F	1.437	1.562
G	0.980	1.020

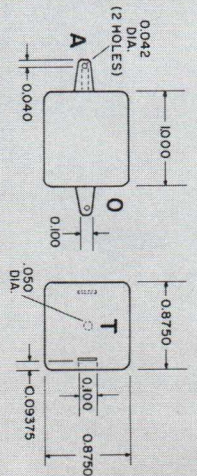


FIGURE 5. GP-39

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