

CHARACTERISTICS OF HASTINGS VACUUM GAUGE TUBES

Metal Tube	DV-4D	DV-5M	DV-6M	DV-8	DV-23	DV-24	DV-760
"R" Series	DV-4R	***	DV-6R	***	***	***	***
Stainless/Ceramic	DV-34	***	DV-36	***	***	***	***
Pyrex	DV-16D	DV-18	DV-20	DV-31	DV-43	DV-44	***
Metal w/VCR Connection	DV-4D-VCR	DV-5M-VCR	DV-6M-VCR	DV-8-VCR	DV-23-VCR	***	***
Metal w/KF-16/25 Connection	DV-4D-KF-16/25	***	DV-6M-KF-16/25	***	DV-23-KF-16/25	DV-24-KF-16/25	***
Best Sensitivity Range	0.2 - 5 torr	2 - 20 mtorr	10 - 200 mtorr	0.1 - 10 mtorr	5 mtorr - 1 torr	.1 - 5 torr	1 - 800 torr
	0.1 - 5 mbar	0.002 - 05 mbar	.01 - .2 mbar	***	.01 - 2 mbar	.1 - 5 mbar	1 - 1100 mbar
Usable Range	0.1 - 20 torr	0.2 - 100 mtorr	1 - 1000 mtorr	0.1 - 10 mtorr	5 mtorr - 5 torr	.1 - 50 torr	1 - 800 torr
	0.1 - 20 mbar	0.001 - .1mbar	.01 - 1 mbar	***	.01 - 5 mbar	.1 - 50 mbar	1 - 1100 mbar
Internal Volume of Gauge Tube	1/20 in ³	½ in ³	½ in ³	½ in ³	½ in ³	½ in ³	1/20 in ³
	0.8cc	8.2cc	8.2cc	8.2cc	8.2cc	8.2cc	0.8cc
Thermopile Temperature							
In a High Vacuum:	250° C	48° C	300° C	120° C	400° C	400° C	N/A
At Atmosphere:	30° C	1.5° C	6° C	10° C	10° C	35° C	N/A
AC Amperes Through Tube	0.029	0.03	0.021	0.053	.04/.04	.03/.04	N/A
AC Volts Across Tube	0.32	0.20	0.38	0.32	.20/.20	.19/.19	N/A
Watts Required by Tube	0.009	0.006	0.008	0.017	.016	.11	.018
Output at:							
High Vacuum mv DC	10	2	10	2	13	13	***
Internal Resistance - ohms	11	6	18	6	5/6	6.5/7.5	***
Response Time:							
Zero to ATM - seconds	0.04	0.8	0.06	0.8	0.07	0.05	.002
ATM to Zero - seconds	0.16	25	2.9	25	3.0	.2	.002
AC Connection Pin #	3 - 5	3 - 5	3 - 5	3 - 5	2-4, 6-8	2-4, 6-8	***
DC Connection Pin #	7	7	7	7	***	***	***
Color of Base (Metal Tube)	Purple	Red	Yellow	Green	Orange	White	Light Blue

The above information includes nominal values only. Not to be used for design purposes or acceptance tests.

PRESSURE & TEMPERATURE DATA

Tube Type	Max. Pressure	Max. Temperature
Metal: DV-4D, DV-4D-VCR,	150 psig	100° C
DV-4D-KF-16	150 psig	100° C
DV-4D-KF-25		
All other metal (except DV-760)	50 psig	100° C
"R" Series	250 psig	150° C
Stainless/Ceramic	600 psig	300° C
Pyrex	15 psig	400° C
DV-760	15 psig	40° C

The above gauge tubes can be expected to withstand the listed pressure and temperature without rupture, but they are not warranted as safe under these conditions. For critical conditions or special testing contact factory.

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