

# Jennings® Vacuum Devices



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## Jennings® Vacuum Devices

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**Thomas & Betts**

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# High-Voltage Vacuum Fixed Capacitors

## CKT Series

### CKT Series Vacuum Fixed Capacitors, 25–250pF

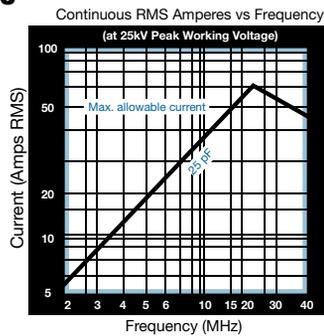
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS				
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)	DIA. (MM)	NOM. WEIGHT
CKT-25-0035	25*	35	25	65	6.44	2.32 Max.	163.60	58.93 Max.	1 lb., 6 oz.
CKT-50-0035	50*	35	25	75	6.44	2.32 Max.	163.60	58.93 Max.	1 lb., 6 oz.
CKT-100-0035	100	35	25	85	6.44	2.32 Max.	163.60	58.93 Max.	1 lb., 6 oz.
CKT-150-0030	150	30	20	90	6.44	2.66 Max.	163.60	67.60 Max.	1 lb., 14 oz.
CKT-200-0030	200	30	20	95	6.44	2.66 Max.	163.60	67.60 Max.	1 lb., 15 oz.
CKT-250-0030	250	30	20	100	6.44	2.66 Max.	163.60	67.60 Max.	2 lb.

\* Capacitance tolerance  $\pm 0.15$ .

Note: Optional mounting flange FMOA available.

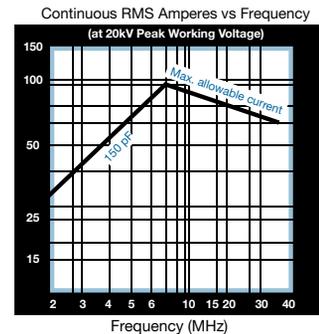


**CKT-25**



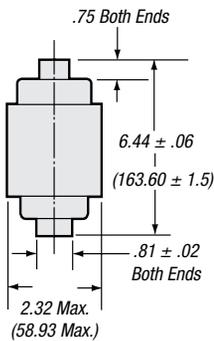
Mounting: Using flange FMOA on both ends.

**CKT-150**

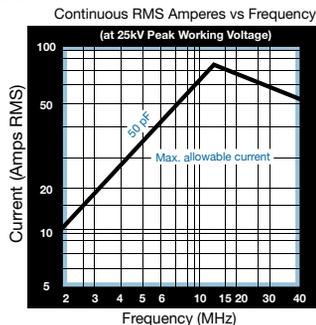


Mounting: Using flange FMOA on both ends.

**CKT-50**

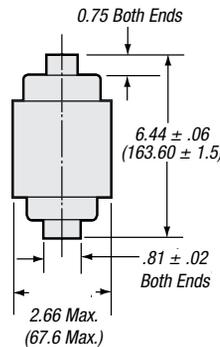


CKT-25  
CKT-50  
CKT-100

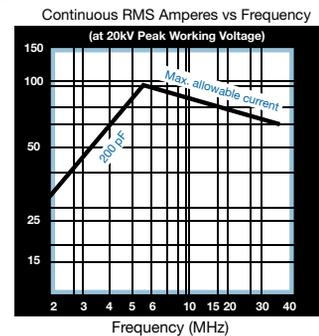


Mounting: Using flange FMOA on both ends.

**CKT-200**

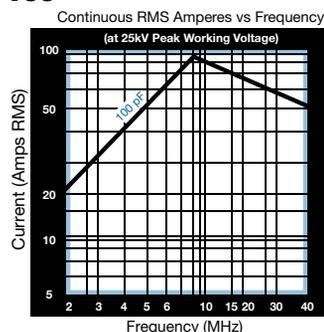


CKT-150  
CKT-200  
CKT-250



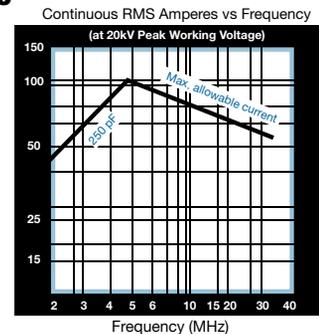
Mounting: Using flange FMOA on both ends.

**CKT-100**



Mounting: Using flange FMOA on both ends.

**CKT-250**



Mounting: Using flange FMOA on both ends.

# High-Voltage Vacuum Fixed Capacitors

## CKT1 Series

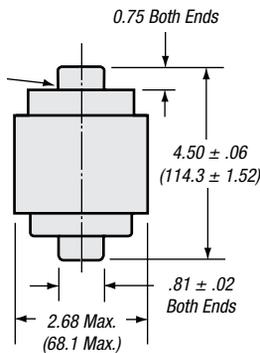
### CKT1 Series Vacuum Fixed Capacitors, 25–100pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS				NOM. WEIGHT
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)	DIA. (MM)	
CKT1-25-0025	25*	25	15	50	4.50	2.68 Max.	114.00	68.10	1 lb., 6 oz.
CKT1-50-0025	50*	25	15	60	4.50	2.68 Max.	114.30	68.10	1 lb., 6 oz.
CKT1-100-0025	100	25	15	75	4.50	2.68 Max.	114.30	68.10	1 lb., 6 oz.

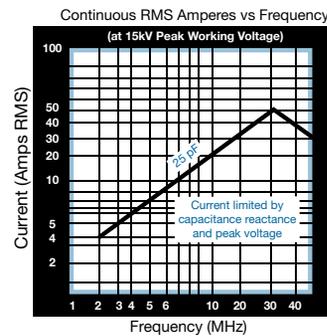
\* Capacitance tolerance  $\pm 0.15$ .



Tubulation cover must be permanently affixed and flush with plate.

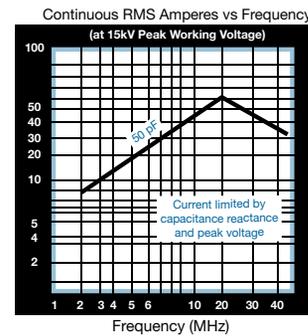


### CKT1-25



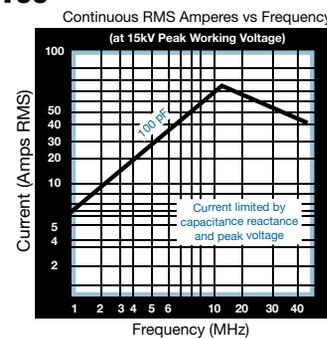
Mounting: Using flange FMOA on both ends.

### CKT1-50



Mounting: Using flange FMOA on both ends.

### CKT1-100



Mounting: Using flange FMOA on both ends.

# High-Voltage Vacuum Fixed Capacitors

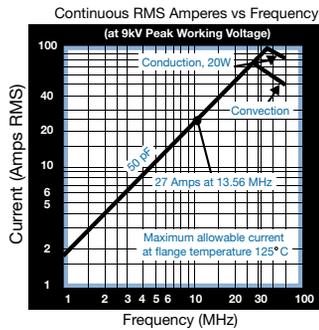
## CF2 Series

CF2 Series Compact Vacuum Fixed Capacitors, 50–210pF

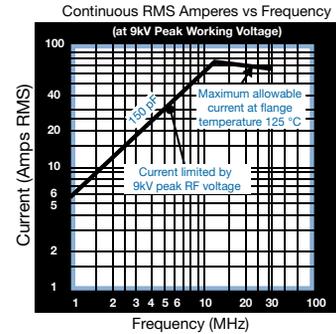
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS				NOM. WEIGHT
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)	DIA. (MM)	
CF2-50-0015	50	15	9	27	2.45	1.75	62.3	44.5	9 oz.
CF2-80-0015	80	15	9	76	2.45	1.75	62.3	44.5	9 oz.
CF2-100-0015	100	15	9	80	2.45	1.75	62.3	44.5	9 oz.
CF2-150-0015	150	15	9	75	2.45	1.75	62.3	44.5	10 oz.
CF2-180-0015	180	15	9	90	2.45	1.75	62.3	44.5	10 oz.
CF2-210-0010	210	10	6	76	2.45	1.75	62.3	44.5	10 oz.



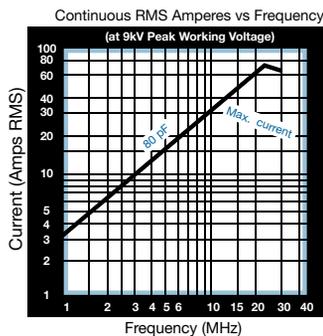
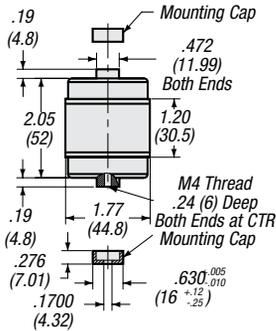
**CF2-50**



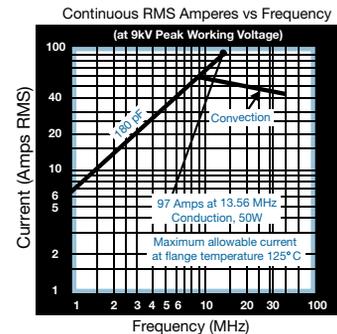
**CF2-150**



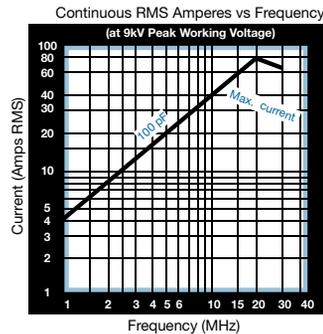
**CF2-80**



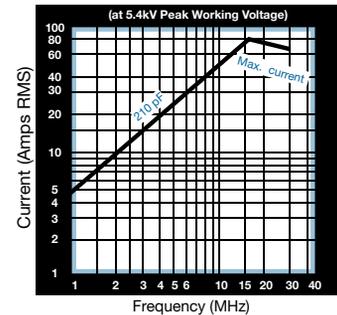
**CF2-180**



**CF2-100**



**CF2-210**



# High-Voltage Vacuum Fixed Capacitors

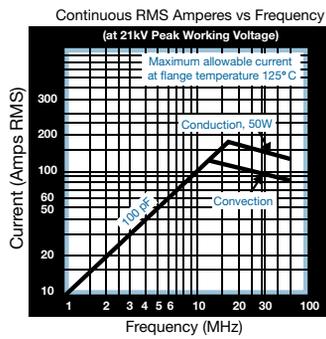
## CFC Series

CFC Series Compact Vacuum Fixed Capacitors, 100–1000pF

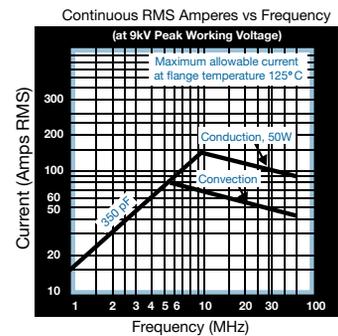
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS				NOM. WEIGHT
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)	DIA. (MM)	
CFC-100-35S*	100	35	21	126	3.43	2.52	87	64	2 lb., 4oz.
CFC-175-35S*	175	35	21	168	3.43	2.52	87	64	2 lb., 4oz.
CFC-350-15S*	350	15	9	132	2.05	1.89	52	48	15 oz.
CFC-500-12S*	500	12	7.2	126	2.05	1.89	52	48	15 oz.
CFC-1000-08S*	1000	10	4.8	115	2.05	1.89	52	48	15 oz.

\* Capacitance tolerance  $\pm 5\%$ .

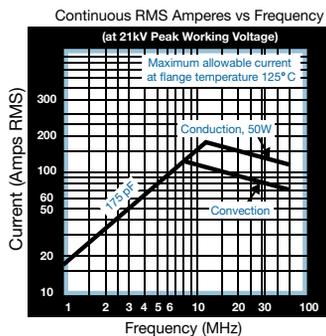
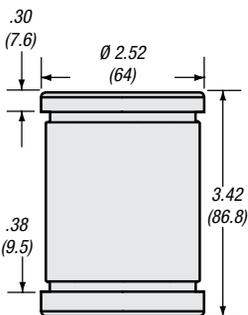
### CFC-100



### CFC-350

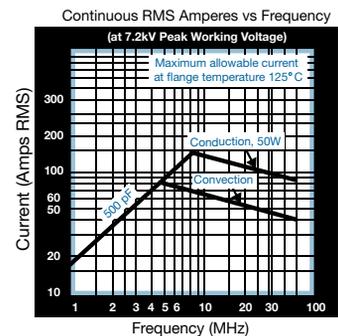
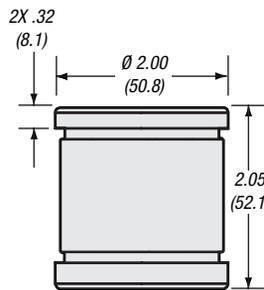


### CFC-175



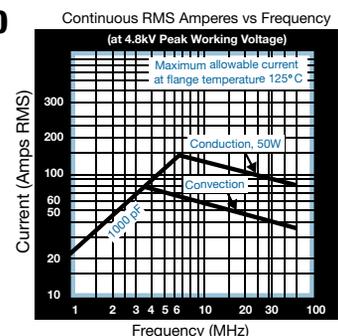
Mounting: M6 x 8mm DP tapped hole at center axis both ends.

### CFC-500



Mounting: M6 x 8mm DP tapped hole at center axis both ends.

### CFC-1000



# High-Voltage Vacuum Fixed Capacitors

## CFHD, CFHP and CFED Series

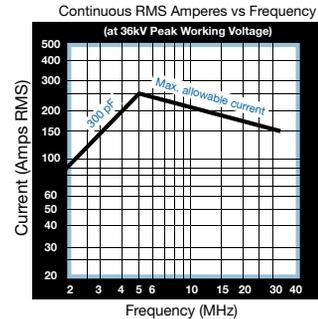
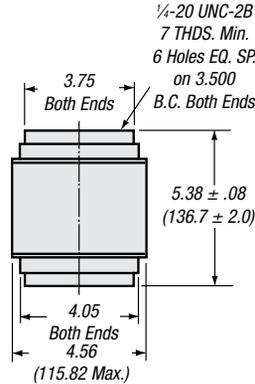
CFHD, CFHP and CFED Series Vacuum Fixed Capacitors, 300–500pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)		DIA. (MM)
CFHD-300-45S	300	45	27	225	5.38	4.56	136.70	115.82	5 lb., 2 oz.
CFHD-300-50S	300	50	30	230	5.38	4.56	136.70	115.82	5 lb., 2 oz.
CFHD-300-55S	300	55	33	235	5.38	4.56	136.70	115.82	5 lb., 2 oz.
CFHD-300-60S*	300	60	36	240	5.38	4.56	136.70	115.82	5 lb., 2 oz.
CFHP-450-45S*	450	45	27	260	5.50	5.62	139.70	142.75	7 lb., 5 oz.
CFHP-450-50S*	450	50	30	280	5.50	5.62	139.70	142.75	7 lb., 5 oz.
CFHP-450-55S*	450	55	33	300	5.50	5.62	139.70	142.75	7 lb., 5 oz.
CFED-500-10S	500	10	6.0	170	3.81	4.56	96.77	115.82	4 lb., 2 oz.
CFED-500-15S	500	15	9.0	180	3.81	4.56	96.77	115.82	4 lb., 2 oz.
CFED-500-20S	500	20	12	190	3.81	4.56	96.77	115.82	4 lb., 2 oz.
CFED-500-25S	500	25	15	200	3.81	4.56	96.77	115.82	4 lb., 2 oz.

\* Max. Diameter is 4.80 with corona rings.

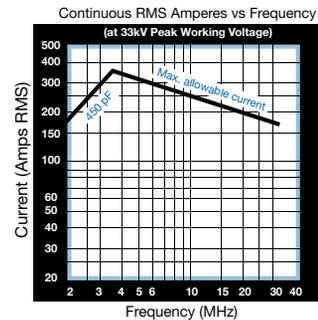
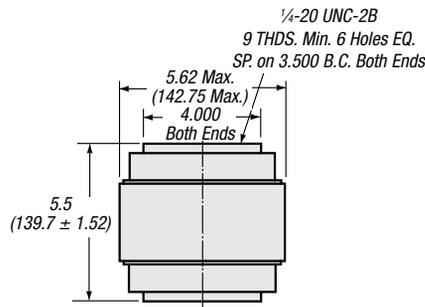
\* CFHP (metric version) available.

### CFHD-300



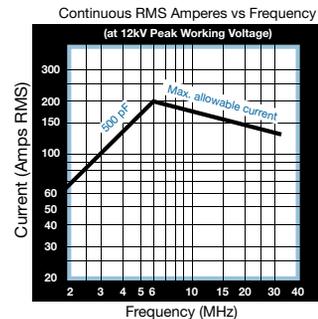
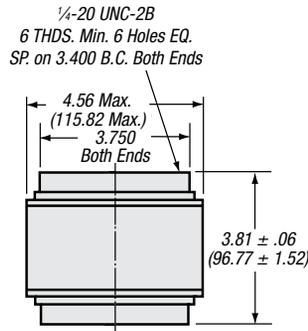
Mounting: Both ends have tapped holes.

### CFHP-450



Mounting: Both ends have tapped holes.

### CFED-500



Mounting: Both ends have tapped holes.

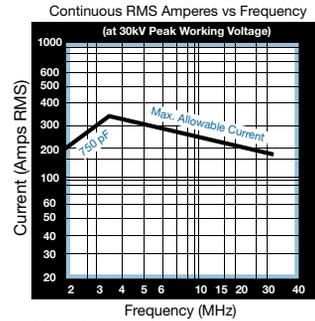
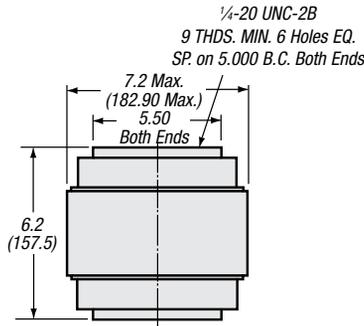
# High-Voltage Vacuum Fixed Capacitors

## CFHP and CFED Series

CFHP and CFED Series Vacuum Fixed Capacitors, 750–1000pF

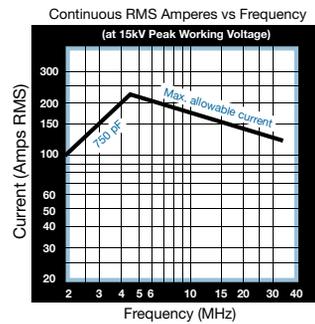
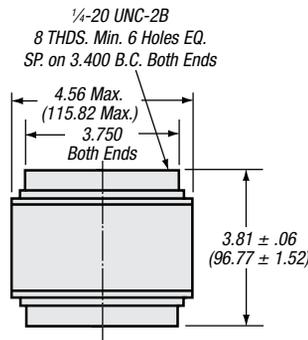
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS				NOM. WEIGHT
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)	DIA. (MM)	
CFHP-750-0040	750	40	24	310	6.20	7.20	157.50	182.90	13 lb.
CFHP-750-0045	750	45	27	325	6.20	7.20	157.50	182.90	13 lb.
CFHP-750-0050	750	50	30	340	5.12	3.44	130.10	182.90	13 lb.
CFED-750-10S	750	10	6	185	3.81	4.56	96.77	115.82	5 lb., 3 oz.
CFED-750-15S	750	15	9.0	200	3.81	4.56	96.77	115.82	5 lb., 3 oz.
CFED-750-20S	750	20	12	215	3.81	4.56	96.77	115.82	5 lb., 3 oz.
CFED-750-25S	750	25	15	225	3.81	4.56	96.77	115.82	5 lb., 3 oz.
CFHP-1000-40S	1000	40	24	340	6.20	7.20	157.48	182.88	13 lb.
CFHP-1000-45S	1000	45	27	350	6.20	7.20	157.48	182.88	13 lb.
CFHP-1000-50S	1000	50	30	360	6.20	7.20	157.48	182.88	13 lb.

### CFHP-750



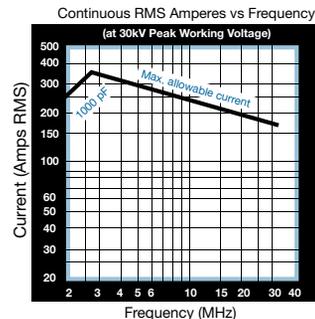
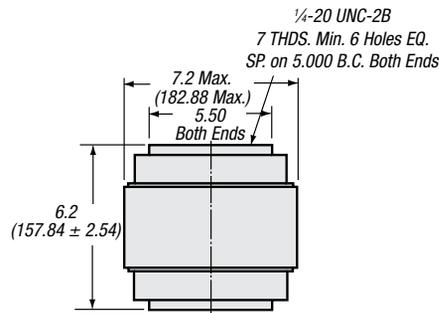
Mounting: Both ends have tapped holes.

### CFED-750



Mounting: Both ends have tapped holes.

### CFHP-1000



Mounting: Both ends have tapped holes.

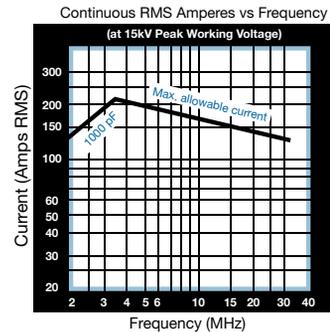
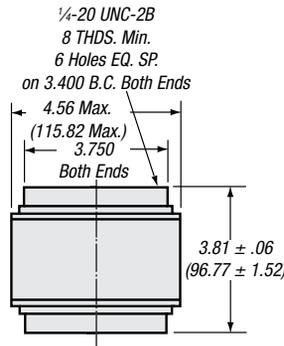
# High-Voltage Vacuum Fixed Capacitors

## CFED, CFDP and CFFP Series

CFED, CFDP and CFFP Series Vacuum Fixed Capacitors, 1000–1500pF

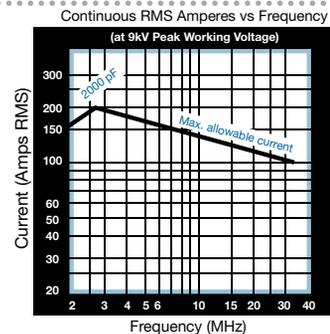
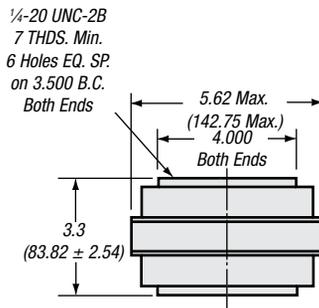
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS				NOM. WEIGHT
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)	DIA. (MM)	
CFED-1000-10S	1000	10	6.0	190	3.81	4.56	96.77	115.82	5 lb., 13 oz.
CFED-1000-15S	1000	15	9.0	205	3.81	4.56	96.77	115.82	5 lb., 13 oz.
CFED-1000-20S	1000	20	12	220	3.81	4.56	96.77	115.82	5 lb., 13 oz.
CFED-1000-25S	1000	25	15	230	3.81	4.56	96.77	115.82	5 lb., 13 oz.
CFDP-1500-7.5S	1500	7.5	4.5	150	3.30	5.62	83.82	142.75	5 lb., 12 oz.
CFDP-1500-10S	1500	10	6.0	170	3.30	5.62	83.82	142.75	5 lb., 12 oz.
CFDP-1500-15S	1500	15	9.0	190	3.30	5.62	83.82	142.75	5 lb., 12 oz.
CFFP-1500-25S	1500	25	15	310	5.78	8.20	146.80	208.30	23 lb., 8 oz.
CFFP-1500-30S	1500	30	18	330	5.78	8.20	146.80	208.30	23 lb., 8 oz.
CFFP-1500-35S	1500	35	21	350	5.78	8.20	146.80	208.30	23 lb., 8 oz.

### CFED-1000



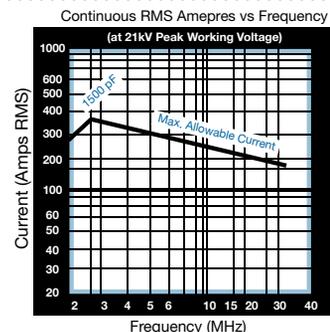
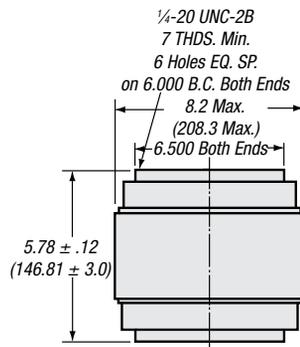
Mounting: Both ends have tapped holes.

### CFDP-1500



Mounting: Both ends have tapped holes.

### CFFP-1500



Mounting: Both ends have tapped holes.

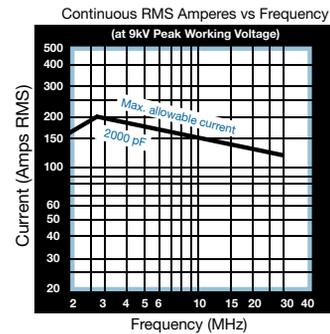
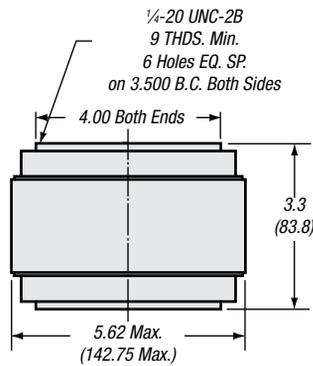
# High-Voltage Vacuum Fixed Capacitors

## CFDP and CFFP Series

CFDP and CFFP Series Vacuum Fixed Capacitors, 2000pF

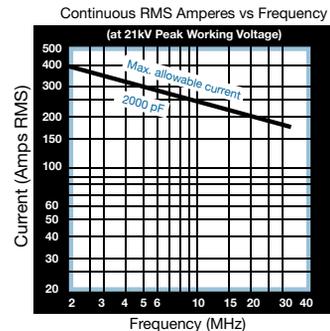
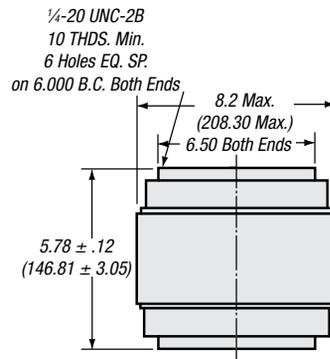
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS				NOM. WEIGHT
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)	DIA. (MM)	
CFDP-2000-7.5S	2000	7.5	4.5	160	3.30	5.62	83.80	142.75	5 lb., 12 oz.
CFDP-2000-10S	2000	10	6.0	180	3.30	5.62	83.80	142.75	5 lb., 12 oz.
CFDP-2000-15S	2000	15	9.0	200	3.30	5.62	83.80	142.75	5 lb., 12 oz.
CFFP-2000-25S	2000	25	15	350	5.78	8.20	146.81	208.30	23 lb., 8 oz.
CFFP-2000-30S	2000	30	18	370	5.78	8.20	146.81	208.30	23 lb., 8 oz.
CFFP-2000-35S	2000	35	21	390	5.78	8.20	146.81	208.30	23 lb., 8 oz.

### CFDP-2000



Mounting: Both ends have tapped holes.  
CFDM Version has additional M6 Hole pattern.

### CFFP-2000



Mounting: Both ends have tapped holes.

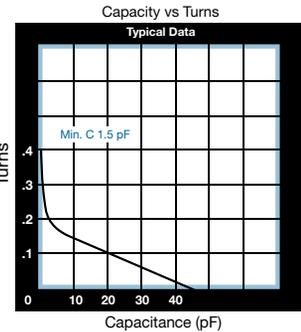
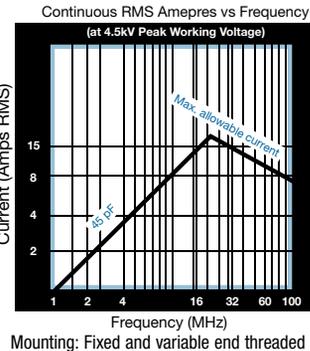
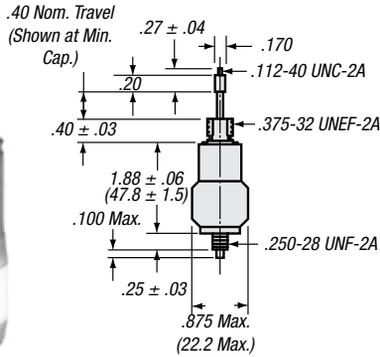
# High-Voltage Vacuum Fixed Capacitors

## CVH1N and CGF1 Series

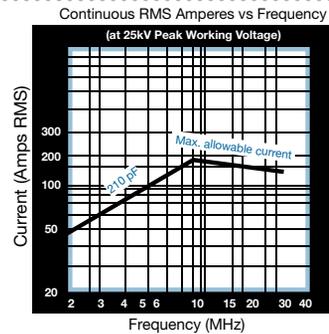
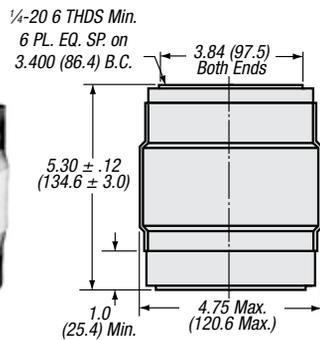
CVH1N and CGF1 Series Gas Variable Fixed Capacitors, 45–260pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CHV1N-45-0103	1.5-45	3.0	1.8	13	3.50	0.875	88.90	22.22	80	25 lb.	3 oz.
CHV1N-45-0105	1.5-45	5.0	3.0	15	3.50	0.875	88.90	22.22	80	25 lb.	3 oz.
CHV1N-45-0107	1.5-45	7.5	4.5	17	3.50	0.875	88.90	22.22	80	25 lb.	3 oz.
CGF1-210-0040	210	40	30	140	5.30	4.75	134.60	120.60	—	—	10 lb.
CGF1-210-0045	210	45	35	160	5.30	4.75	134.60	120.60	—	—	10 lb.
CGF1-210-0050	210	50	40	180	5.30	4.75	134.60	120.60	—	—	10 lb.
CGF1-260-0040	260	40	30	180	5.30	4.75	134.60	120.60	—	—	10 lb.
CGF1-260-0045	260	45	35	185	5.30	4.75	134.60	120.60	—	—	10 lb.
CGF1-260-0050	260	50	40	190	5.30	4.75	134.60	120.60	—	—	10 lb.

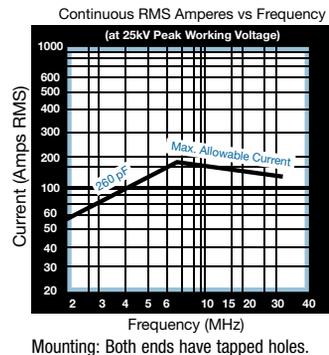
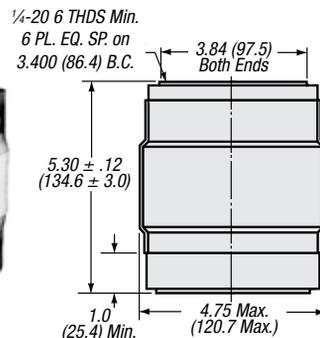
### CHV1N-45



### CGF1-210

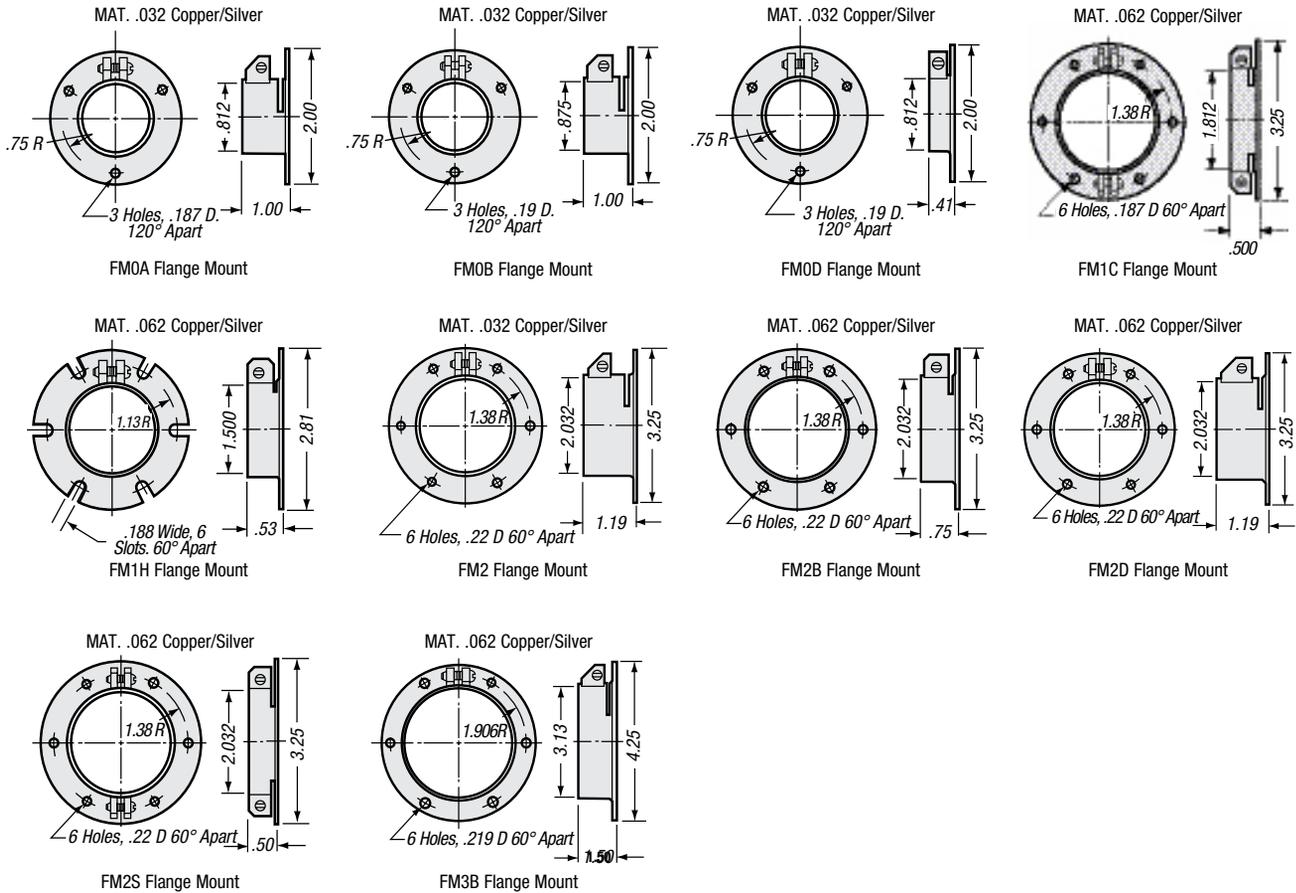


### CGF1-260

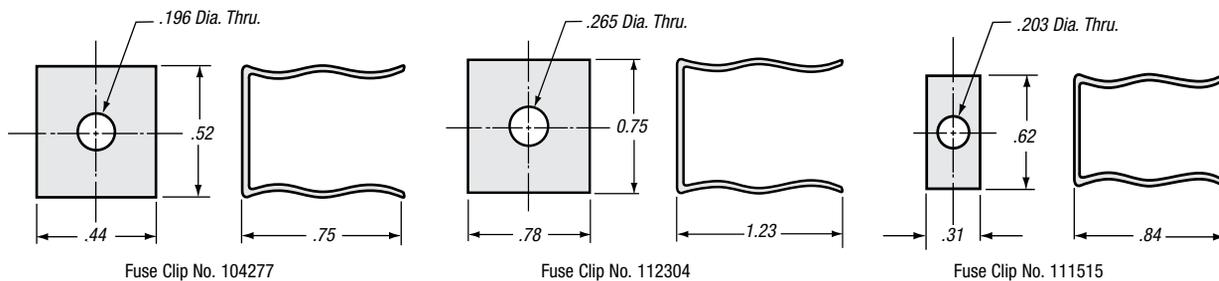


# High-Voltage Vacuum Fixed Capacitors

## Flanges



## Fuse Clips



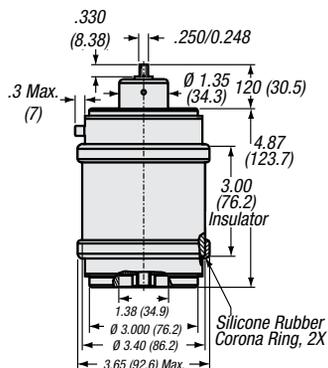
## High-Voltage Vacuum Variable Capacitors

### CVHD, CADC and CADD Series

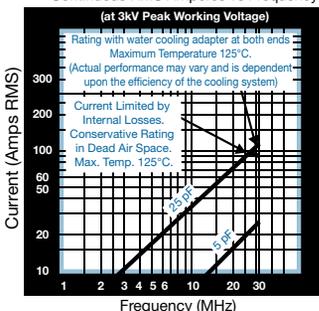
CVHD, CADC and CADD Series Vacuum Variable Capacitors, 25–30pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVHD-25-45S	6.5–25	45	27	109	6.07	3.65	154	93	2.5	85	5 lb.
CVHD-25-50S	6.5–25	50	30	117	6.07	3.65	154	93	2.5	85	5 lb.
CVHD-25-55S	6.5–25	55	33	125	6.07	3.65	154	93	2.5	85	5 lb.
CADC-30-7.5S	3–30	7.5	4.5	15	4.62	1.30	117.34	33.27	1.5	20	5 oz.
CADC-30-10S	3–30	10	6.0	16	4.62	1.30	117.34	33.27	1.5	20	5 oz.
CADC-30-15S	3–30	15	9.0	17	4.62	1.30	117.34	33.27	1.5	20	5 oz.
CADD-30-0107	3–30	7.5	4.5	18	4.12	1.30	104.65	33.27	1.3	20	6.2 oz.
CADD-30-0110	3–30	10	6.0	20	4.12	1.30	104.65	33.27	1.3	20	6.2 oz.
CADD-30-0115	3–30	17.5	10.5	30	4.12	1.30	104.65	33.27	1.3	20	6.2 oz.

#### CVHD-25

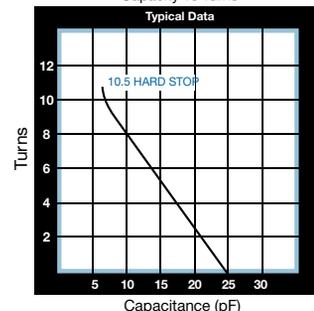


Continuous RMS Amperes vs Frequency



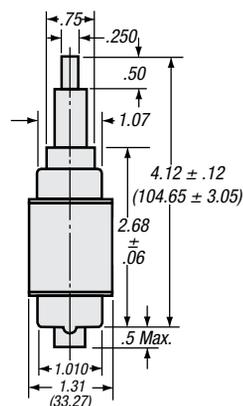
Mounting: Both ends have tapped holes.

Capacity vs Turns

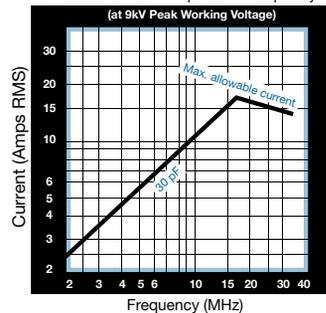


6X M5 Thread on 2.350 B.C.; 6X M4 Thread on 2.350 B.C.; Both Ends.

#### CADC-30

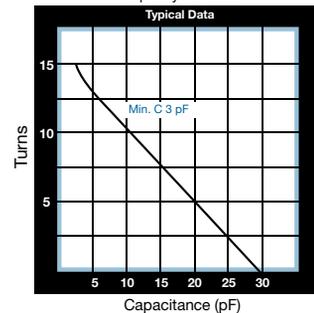


Continuous RMS Amperes vs Frequency

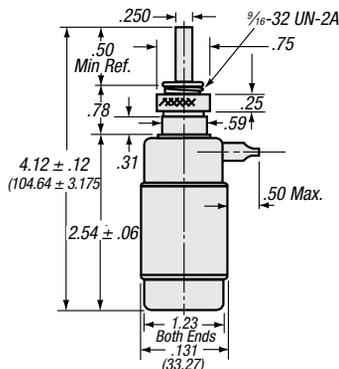


Mounting: Use Jennings No. 112304 Fuse Clip, or soldered-on flange types: CADC30-XXD1834 (flanges on both ends); CADC30-XXD1823 (fixed end flange only).

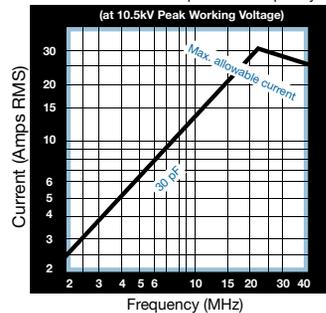
Capacity vs Turns



#### CADD-30

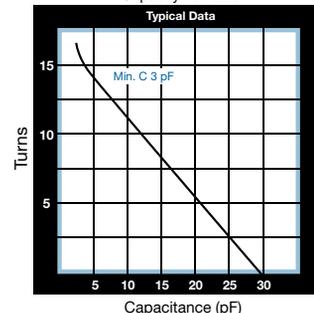


Continuous RMS Amperes vs Frequency



Mounting: Fixed end has threaded hole 62-32 UNC-2B. Maximum screw length 0.17. Variable end threaded or use Jennings No. 111515 fuse clip.

Capacity vs Turns



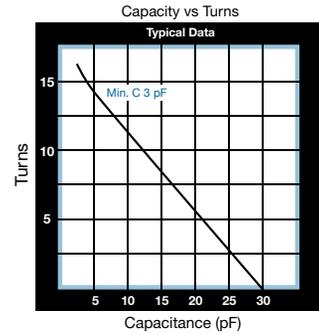
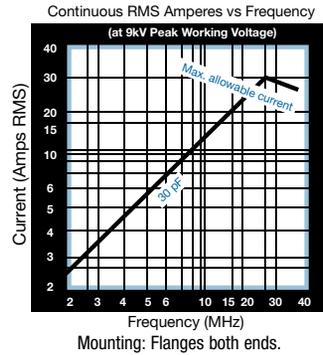
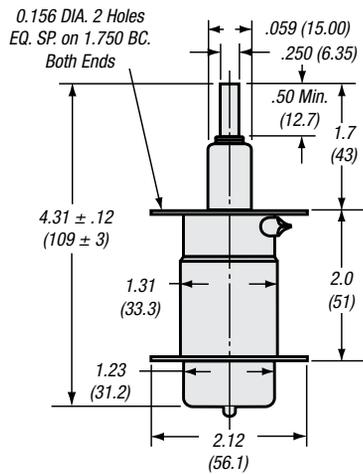
# High-Voltage Vacuum Variable Capacitors

## CVDD Series

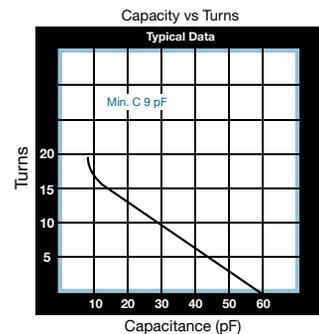
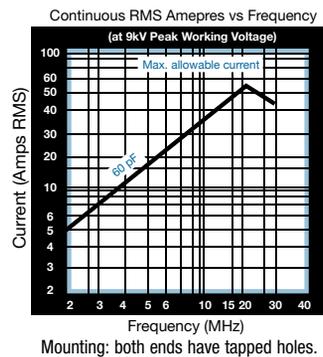
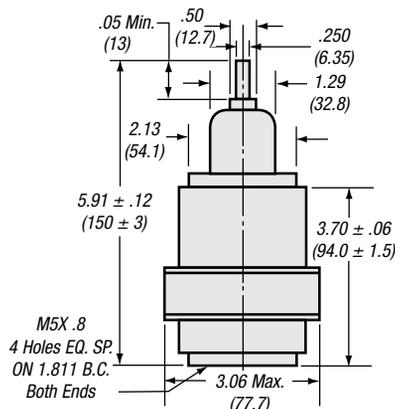
CVDD Series Vacuum Variable Capacitors, 30–60pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)			NOM. DIMENSIONS				TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT
		TEST	WORKING	CURRENT (RMS) MAX.	LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)	DIA. (MM)			
CVDD-30-0007	3–30	7.5	4.5	18	4.31	2.12	109.47	56.10	1.3	25	6.2 oz.
CVDD-30-0010	3–30	10	6.0	19	4.31	2.12	109.47	56.10	1.3	25	6.2 oz.
CVDD-30-0015	3–30	15	9.0	30	4.31	2.12	109.47	56.10	1.3	25	6.2 oz.
CVDD-60-0010	9–60	10	6.0	50	5.91	3.06	150.00	78.00	3.5	45	2 lb.
CVDD-60-0015	9–60	15	9.0	55	5.91	3.06	150.00	78.00	3.5	45	2 lb.

### CVDD-30



### CVDD-60



Power & High Voltage — Jennings® Vacuum Devices

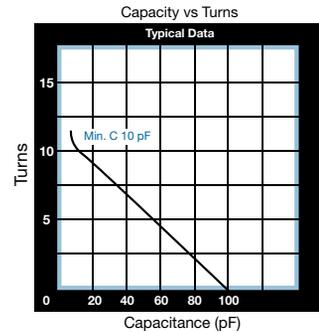
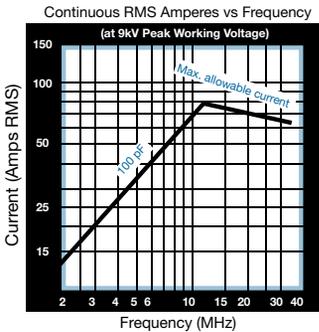
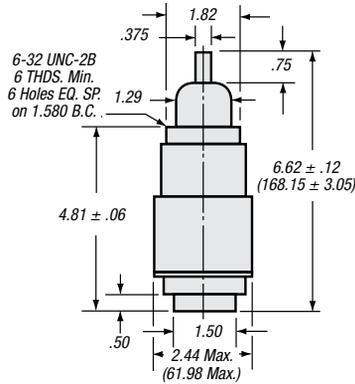
# High-Voltage Vacuum Variable Capacitors

## CVDD, C/GCS and CACAN Series

CVDD, C/GCS and CACAN Series Vacuum Variable Capacitors, 100–125pF

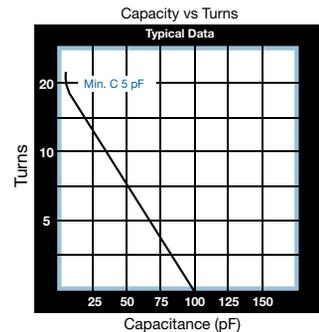
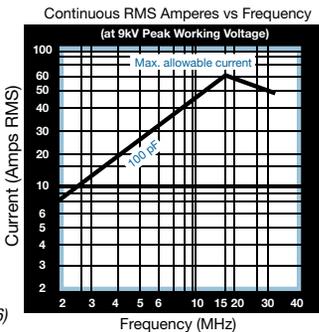
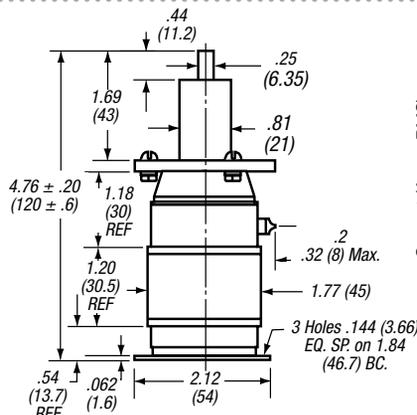
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.		NOM. WEIGHT
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)		DIA. (MM)		
CVDD-100-7.5S	10–100	7.5	4.5	60	6.62	2.44	168.15	62.00	1.3	30	1 lb., 10 oz.
CVDD-100-10S	10–100	10	6.0	65	6.62	2.44	168.15	62.00	1.3	30	1 lb., 10 oz.
CVDD-100-15S	10–100	15	9.0	77	6.62	2.44	168.15	62.00	1.3	30	1 lb., 10 oz.
C/GCS-100-7.5S	5–100	7.5	4.5	35	4.76	2.12	120.65	53.85	1.9	—	.75 lb.
C/GCS-100-10S	5–100	10	6.0	40	4.76	2.12	120.65	53.85	1.9	—	.75 lb.
C/GCS-100-15S	5–100	15	9.0	60	4.76	2.12	120.65	53.85	1.9	—	.75 lb.
CACAN-125-0003	5–125	3.0	1.8	20	4.65	1.31	118.10	33.27	1.3	20	6.5 oz.
CACAN-125-0005	5–125	5.0	3.0	22	4.65	1.31	118.10	33.27	1.25	20	6.5 oz.

### CVDD-100



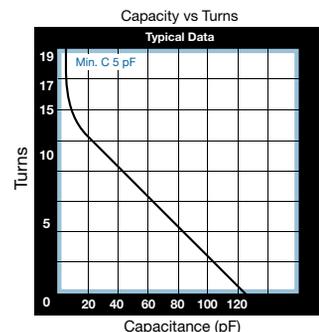
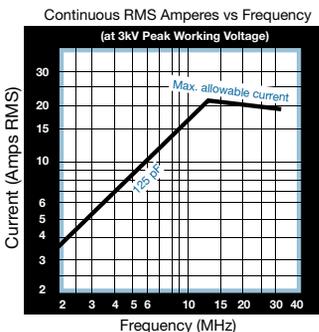
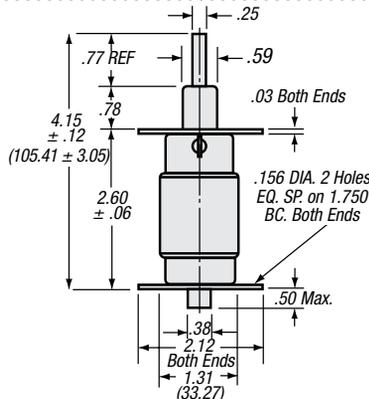
Mounting: Fixed end ferrule use FM1H Flange. Variable end tapped holes.

### C/GCS-100



Mounting: Both ends have tapped holes.

### CACAN-125



Mounting: Soldered-on flanges.

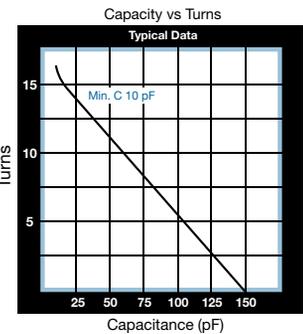
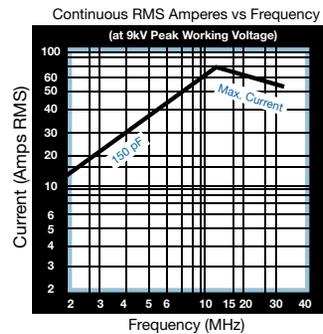
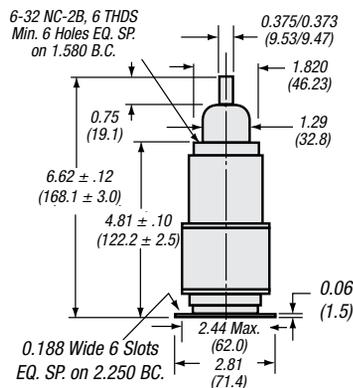
# High-Voltage Vacuum Variable Capacitors

## CVDDN, CACAN and CVCD Series

CVDDN, CACAN and CVCD Series Vacuum Variable Capacitors, 150–250pF

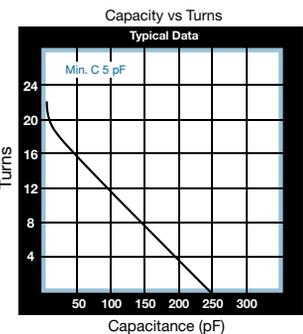
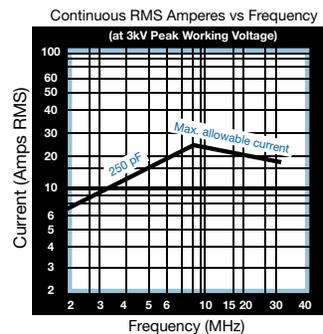
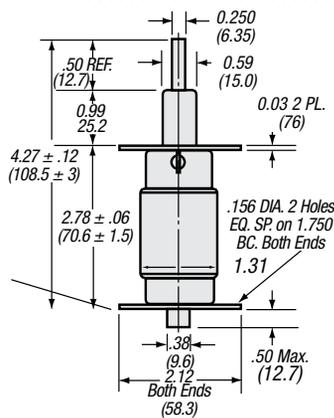
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVDDN-150-0107	10–150	7.5	4.5	50	6.62	2.81	168.10	71.40	1.3	30	1 lb., 10 oz.
CVDDN-150-0110	10–150	10	6.0	65	6.62	2.81	168.10	71.40	1.3	30	1 lb., 10 oz.
CVDDN-150-0115	10–150	15	9.0	70	6.62	2.81	168.10	71.40	1.3	30	1 lb., 10 oz.
CACAN-250-0003	5–250	3.0	1.8	22	4.27	1.31	108.46	33.27	1.5	25	8 oz.
CACAN-250-0005	5–250	5.0	3.0	24	4.27	1.31	108.46	33.27	1.5	25	8 oz.
CVCD-250-3S	5–250	3.0	1.8	40	6.00	2.44	152.40	61.98	1.5	42	1 lb., 10 oz.
CVCD-250-5S	5–250	5.0	3.0	50	6.00	2.44	152.40	61.98	1.5	42	1 lb., 10 oz.

### CVDDN-150



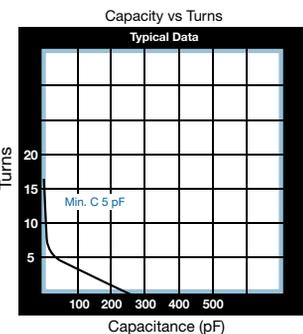
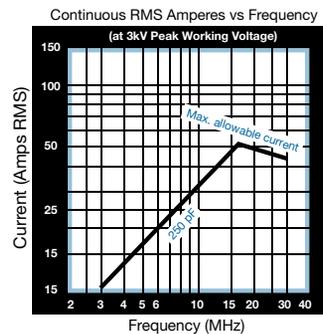
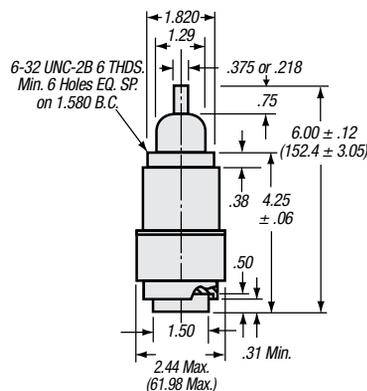
Mounting: Use Flange FM1H on fixed end. Tapped holes on variable end.

### CACAN-250



Mounting: Flange soldered-on flanges.

### CVCD-250



Mounting: Fixed end ferrule use FM1H flange. Variable end tapped holes.

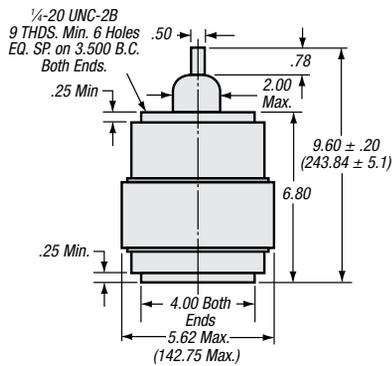
# High-Voltage Vacuum Variable Capacitors

## CVFP and CVHP Series

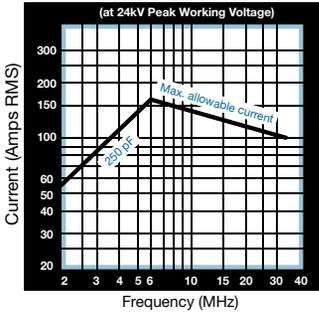
CVFP and CVHP Series Vacuum Variable Capacitors, 250pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVFP-250-30S	15-250	30	18	140	9.60	5.56	243.84	142.80	5.6	156	9 lb., 7 oz.
CVFP-250-35S	15-250	35	21	150	9.60	5.56	243.84	142.80	5.6	156	9 lb., 7 oz.
CVFP-250-40S	15-250	40	24	160	9.60	5.56	243.84	142.80	5.6	156	9 lb., 7 oz.
CVHP-250-45S	10-250	45	27	180	11.90	7.20	302.26	182.9	13	156	17 lb., 15 oz.
CVHP-250-50S	10-250	50	30	200	11.90	7.20	302.26	182.9	13	156	17 lb., 15 oz.
CVHP-250-55S	10-250	55	33	220	11.90	7.20	302.26	182.9	13	156	17 lb., 15 oz.

### CVFP-250

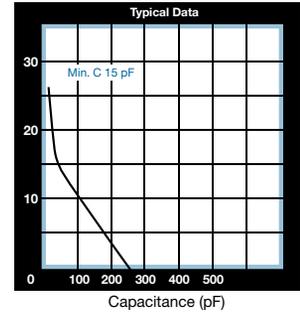


Continuous RMS Amperes vs Frequency

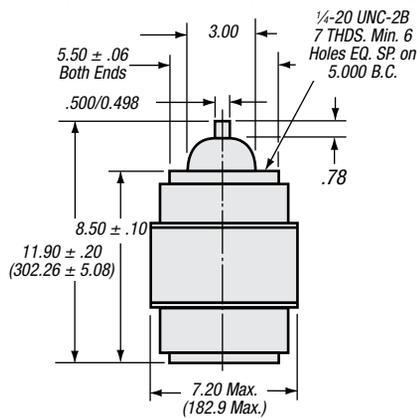


Mounting: Both ends have tapped holes.

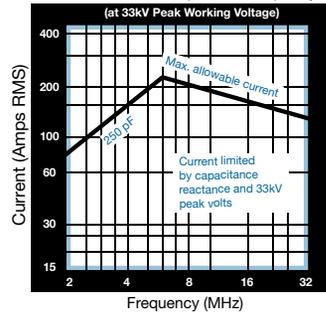
Capacity vs Turns



### CVHP-250

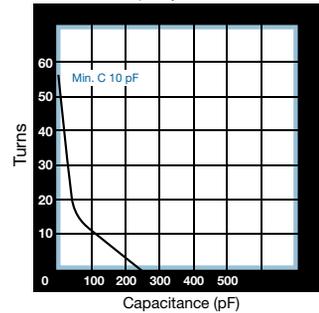


Continuous RMS Amperes vs Frequency



Mounting: Both ends have tapped holes.

Capacity vs Turns



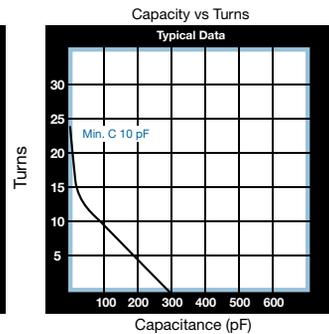
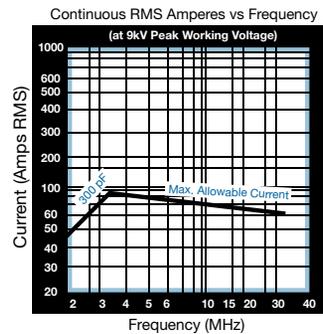
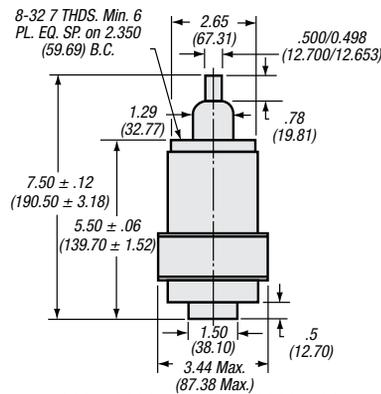
# High-Voltage Vacuum Variable Capacitors

## CVDD and CSV1 Series

CVDD and CSV1 Series Vacuum Variable Capacitors, 300–400pF

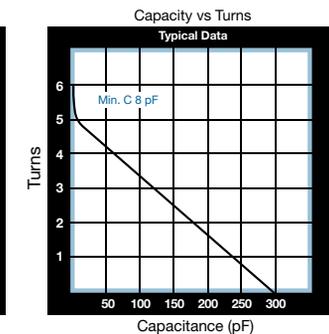
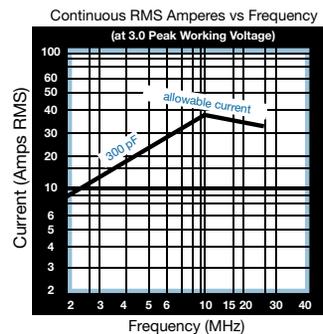
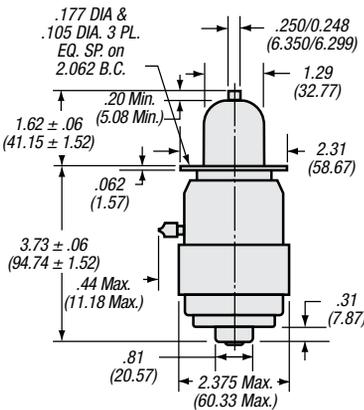
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVDD-300-7.5S	10–300	7.5	4.5	75	7.50	3.44	190.50	87.38	1.8	29	3 lb.
CVDD-300-10S	10–300	10	6.0	80	7.50	3.44	190.50	87.38	1.8	29	3 lb.
CVDD-300-15S	10–300	15	9.0	85	7.50	3.44	190.50	87.38	1.8	29	3 lb.
CSV1-300-0103	8–300	3.0	1.8	30	5.35	2.375	60.33	135.89	2	50	1 lb., 2 oz.
CSV1-300-0105	8–300	5.0	3.0	40	5.35	2.375	60.33	135.89	2	50	1 lb., 2 oz.
CVDD-400-7.5S	20–400	7.5	4.5	70	7.50	3.44	190.50	87.38	2.625	35	3 lb., 1 oz.
CVDD-400-10S	20–400	10	6.0	75	7.50	3.44	190.50	87.38	2.625	35	3 lb., 1 oz.
CVDD-400-15S	20–400	15	9.0	80	7.50	3.44	190.50	87.38	2.625	35	3 lb., 1 oz.

### CVDD-300



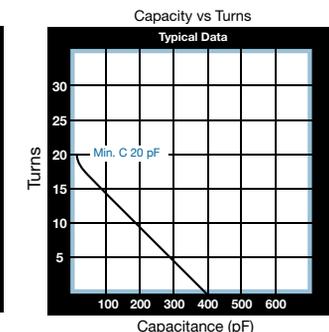
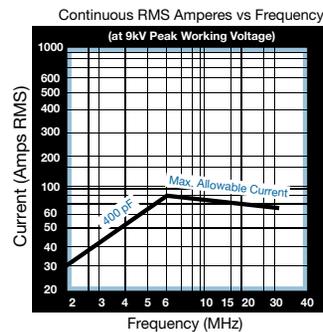
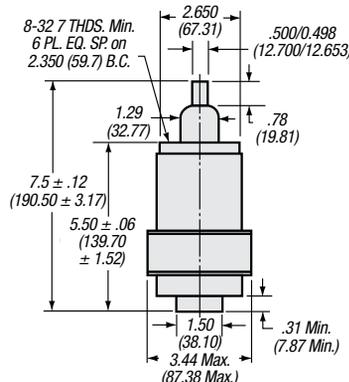
Mounting: Use Flange FM1H on fixed end. Tapped holes on variable end.

### CSV1-300



Mounting: Fixed end has tapped holes. Variable end has soldered-on flanges.

### CVDD-400



Mounting: Use Flange FM1H on fixed end. Tapped holes on variable end.

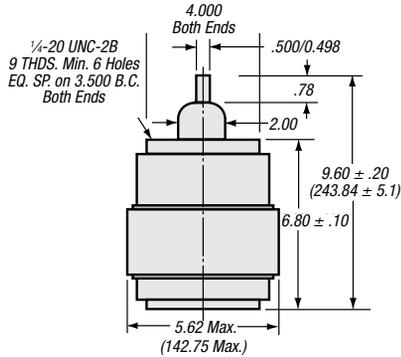
# High-Voltage Vacuum Variable Capacitors

## CVFP and CVHP Series

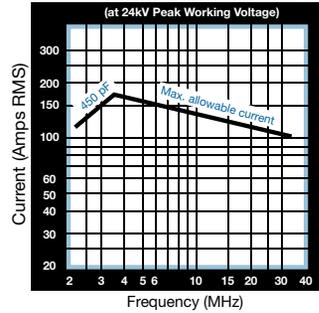
CVFP and CVHP Series Vacuum Variable Capacitors, 450pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS				TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)	DIA. (MM)			
CVFP-450-30S	25-450	30	18	150	9.60	5.62	243.8	142.75	5.062	94	9 lb., 7 oz.
CVFP-450-35S	25-450	35	21	160	9.60	5.62	243.8	142.75	5.062	94	9 lb., 7 oz.
CVFP-450-40S	25-450	40	24	170	9.60	5.62	243.8	142.75	5.062	94	9 lb., 7 oz.
CVHP-450-45S	25-450	45	27	200	11.90	7.20	302.3	182.9	8.4	134	18 lb., 8 oz.
CVHP-450-50S	25-450	50	30	210	11.90	7.20	302.3	182.9	8.4	134	18 lb., 8 oz.
CVHP-450-55S	25-450	55	33	240	11.90	7.20	302.3	182.9	8.4	134	18 lb., 8 oz.

### CVFP-450

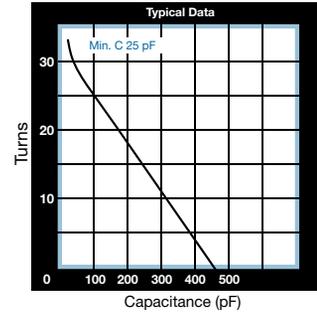


Continuous RMS Amperes vs Frequency (at 24kV Peak Working Voltage)

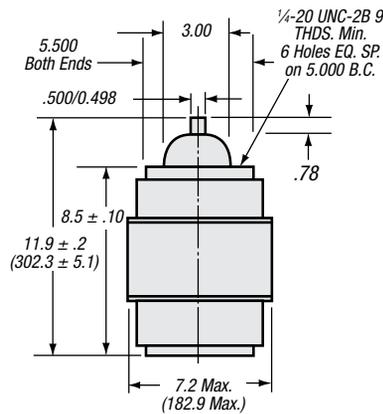


Mounting: Both ends have tapped holes.

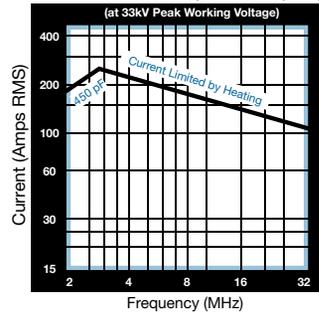
Capacity vs Turns Typical Data



### CVHP-450

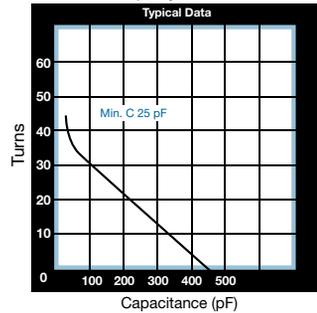


Continuous RMS Amperes vs Frequency (at 33kV Peak Working Voltage)



Mounting: Both ends have tapped holes.

Capacity vs Turns Typical Data



# High-Voltage Vacuum Variable Capacitors

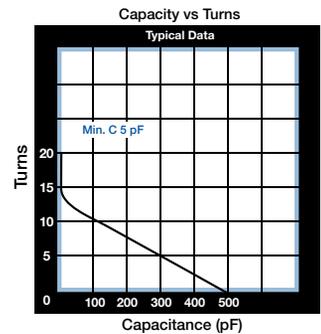
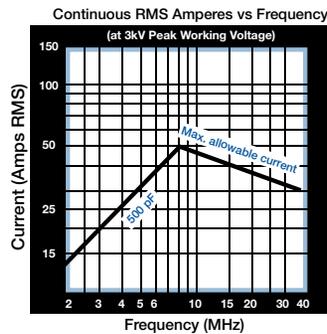
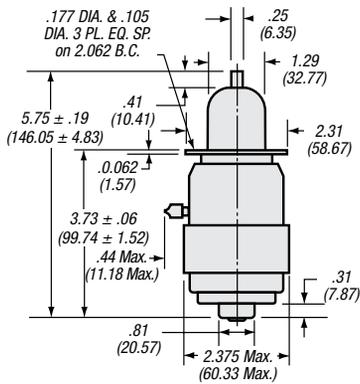
## CSV1, CSVS and CVDD Series

CSV1, CSVS and CVDD Series Vacuum Variable Capacitors, 500pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CSV1-500-0003*	5-500	3.0	1.8	40	5.75	2.375	146.05	60.33	2.0	50	1 lb., 5 oz.
CSV1-500-0005*	5-500	5.0	3.0	45	5.75	2.375	146.05	60.33	2.0	50	1 lb., 5 oz.
CSVS-500-0003 <sup>1</sup>	5-500	3.0	1.8	40	5.75	2.375	146.05	60.33	5	50	1 lb., 8 oz.
CSVS-500-0005 <sup>1</sup>	5-500	5.0	3.0	45	5.75	2.375	146.05	60.33	5	50	1 lb., 8 oz.
CVDD-500-7.5S	20-500	7.5	4.5	80	7.50	3.44	190.50	87.38	1.8	42	3 lb.
CVDD-500-10S	20-500	10	6.0	90	7.50	3.44	190.50	87.38	1.8	42	3 lb.
CVDD-500-15S	20-500	15	9.0	95	7.50	3.44	190.50	87.38	1.8	42	3 lb.

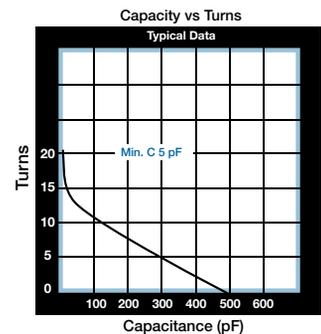
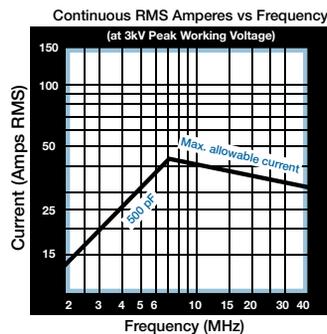
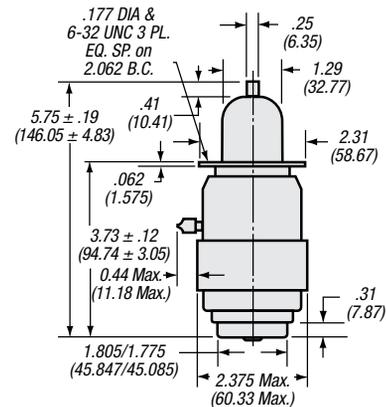
\* CSV1 (non-magnetic version) available. <sup>1</sup>Has shorting switch.

### CSV1-500



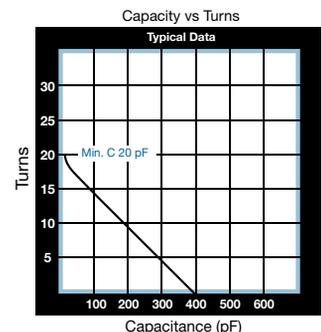
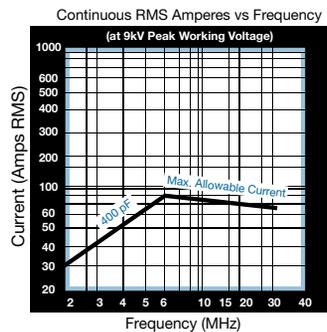
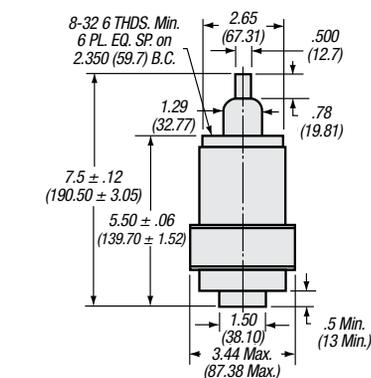
Mounting: Use flange FMOD on fixed end. Variable end has flang soldered-on.

### CSVS-500



Mounting: Both ends have tapped holes.

### CVDD-500



Mounting: Use Flange FM1H on fixed end. Tapped holes on variable end.

# High-Voltage Vacuum Variable Capacitors

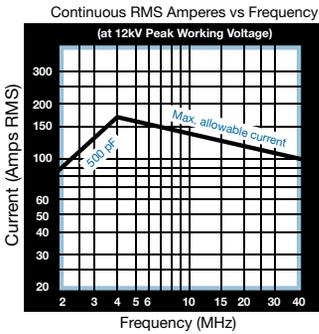
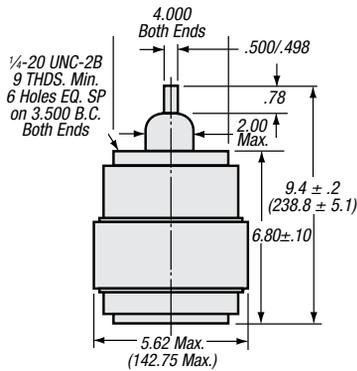
## CVEP, M/CSVF and M/CSV5 Series

CVEP, M/CSVF and M/CSV5 Series Vacuum Variable Capacitors, 500pF

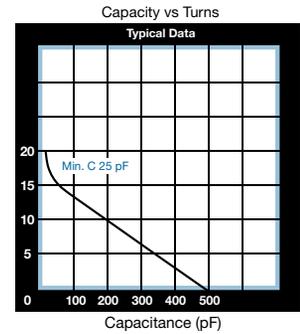
CAT. NO.	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS)		NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
	CAPACITY RANGE (PF)	TEST	WORKING	MAX.	LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVEP-500-10S	25-500	10	6.0	140	9.40	5.62	238.80	142.75	4.375	61	9 lb., 4 oz.
CVEP-500-15S	25-500	15	9.0	150	9.40	5.62	238.80	142.75	4.375	61	9 lb., 4 oz.
CVEP-500-20S	25-500	20	12	160	9.40	5.62	238.80	142.75	4.375	61	9 lb., 4 oz.
M/CSVF-500-0007*	12-500	7.5	4.5	80	7.88	3.50	200.15	88.90	12	50	3 lb.
M/CSVF-500-0010*	12-500	10	6.0	90	7.88	3.50	200.15	88.90	12	50	3 lb.
M/CSVF-500-0015*	12-500	15	9.0	100	7.88	3.50	200.15	88.90	12	50	3 lb.
M/CSV5-500-05*	50-500	5	3	37	5.18	2.32	132	59	1.9	50	1 lb., 4 oz.
M/CSV5-500-08*	50-500	8	4.8	58	5.18	2.32	132	59	1.9	50	1 lb., 4 oz.

\* M/C = Long Life Jenn-X.

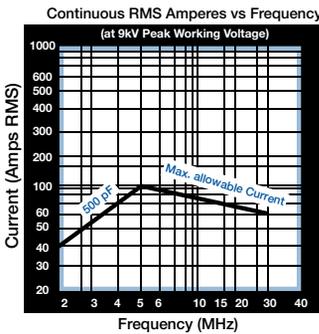
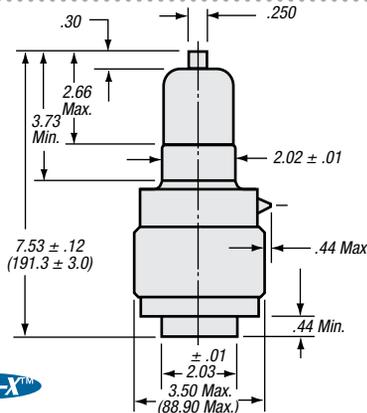
### CVEP-500



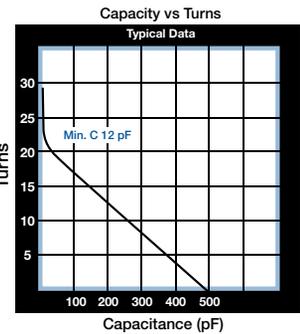
Mounting: Both ends have tapped holes.



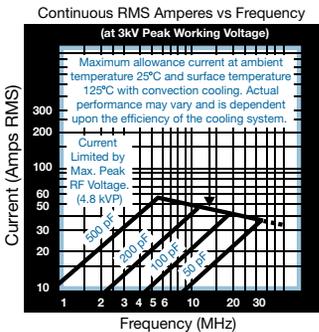
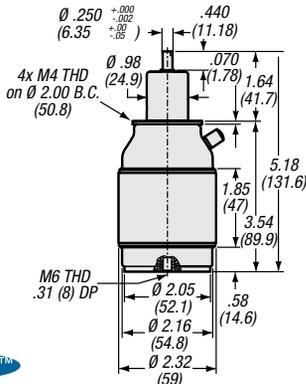
### M/CSVF-500



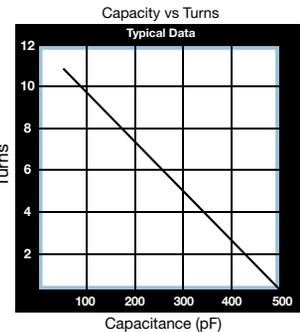
Mounting: Use flange FM2S on fixed end. Flange FM2 on variable end.



### M/CSV5-500



Mounting: Both ends have tapped holes.





# High-Voltage Vacuum Variable Capacitors

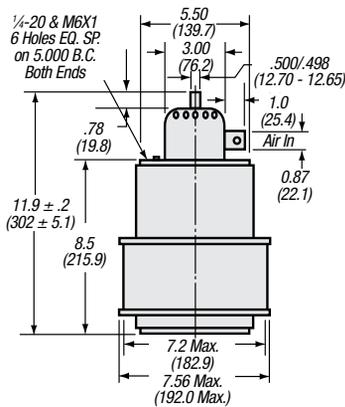
## CAV3, CMV1 and CMV3 Series

CAV3, CMV1 and CMV3 Series Vacuum Variable Capacitors, 650pF

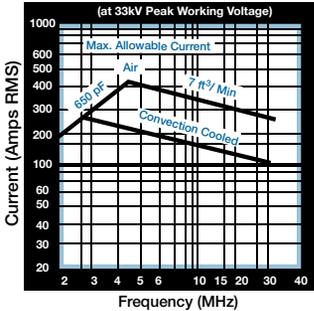
CAT. NO.	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS)		NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
	CAPACITY RANGE (PF)	TEST	WORKING	MAX.	LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CAV3-650-0045	30-650	45	27	375 <sup>††</sup>	11.90	7.56	302.30	192.00	13	200	20 lb.
CAV3-650-0050	30-650	50	30	400 <sup>††</sup>	11.90	7.56	302.30	192.00	13	200	20 lb.
CAV3-650-0055	30-650	55	33	425 <sup>††</sup>	11.90	7.56	302.30	192.00	13	200	20 lb.
CMV1-650-0005 <sup>1</sup>	8-650	5.0	5.0	40	4.35	1.78	110.49	45.21	1.1	42	15 oz.
CMV3-650-0008	10-650	8	4.8	40	4.50	1.78	114.35	45.21	18	42	15 oz.

<sup>1</sup>Has shorting switch. <sup>††</sup> Forced air cooling.

### CAV3-650

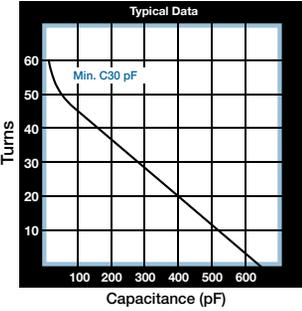


Continuous RMS Amperes vs Frequency

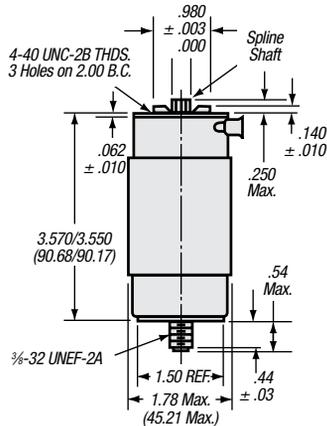


Mounting: Both ends have tapped holes.

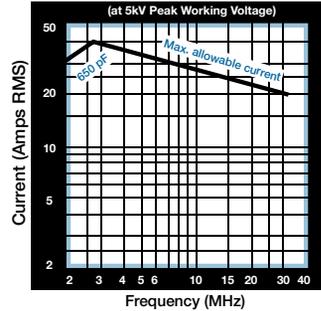
Capacity vs Turns



### CMV1-650

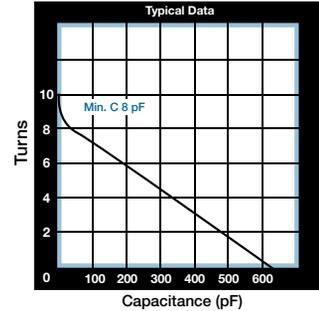


Continuous RMS Amperes vs Frequency

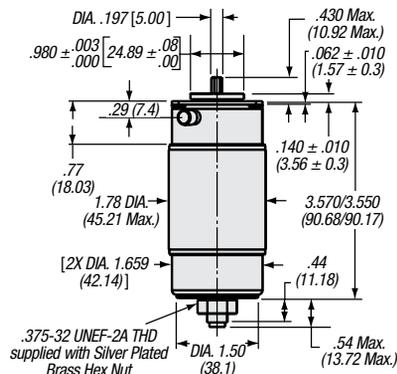


Mounting: Fixed end threaded stud. Variable end tapped holes.

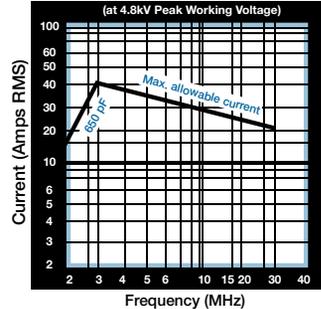
Capacity vs Turns



### CMV3-650

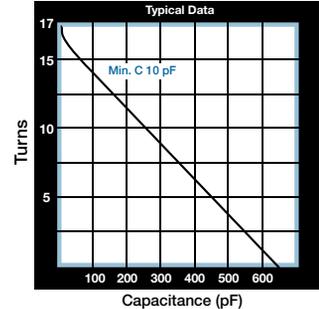


Continuous RMS Amperes vs Frequency



Mounting: Both ends have tapped holes.

Capacity vs Turns



# High-Voltage Vacuum Variable Capacitors

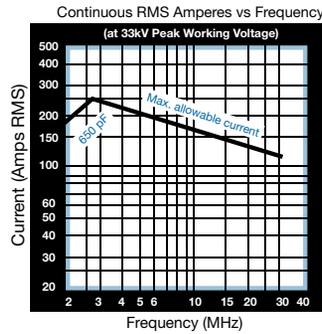
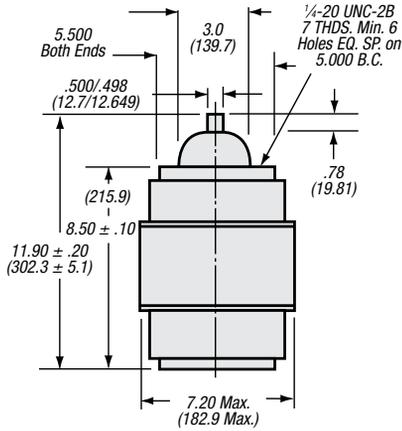
## CVHP and CWV3 Series

CVHP and CWV3 Series Vacuum Variable Capacitors, 650pF

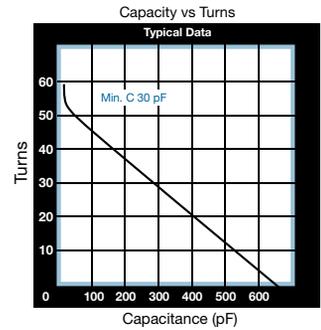
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVHP-650-45S	30-650	45	27	220	11.90	7.20	302.30	182.9	11.3	200	19 lb., 2 oz.
CVHP-650-50S	30-650	50	30	230	11.90	7.20	302.30	182.9	11.3	200	19 lb., 2 oz.
CVHP-650-55S	30-650	55	33	240	11.90	7.20	302.30	182.9	11.3	200	19 lb., 2 oz.
CWV3-650-0140	30-650	40	24	760 <sup>†</sup>	16.50	7.60	419.10	193.0	17	200	23 lb.
CWV3-650-0145	30-650	45	27	780 <sup>†</sup>	16.50	7.60	419.10	193.0	17	200	23 lb.
CWV3-650-0150	30-650	50	30	800 <sup>†</sup>	16.50	7.60	419.10	193.0	17	200	23 lb.

<sup>†</sup> Water cooling.

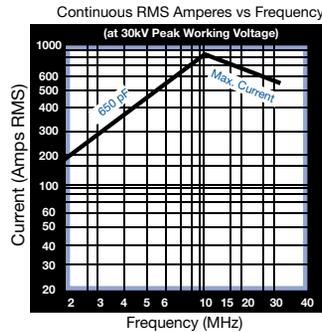
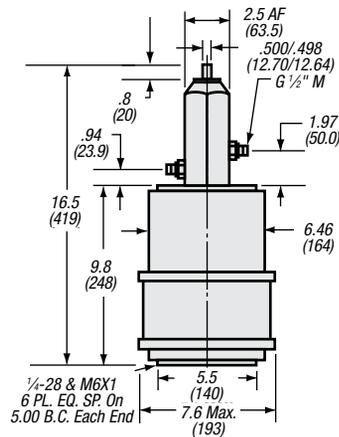
### CVHP-650



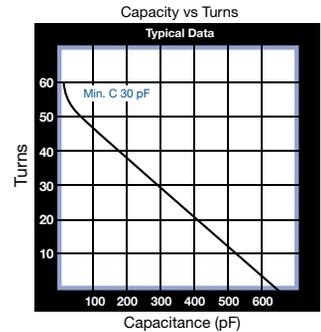
Mounting: Both ends have tapped holes.



### CWV3-650



Mounting: Both ends have tapped holes.



Power & High Voltage — Jennings® Vacuum Devices

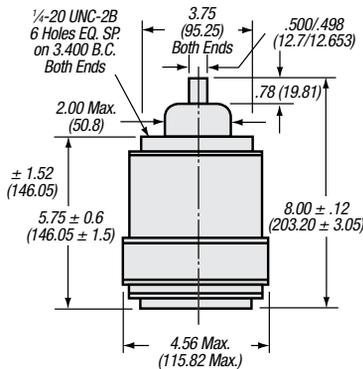
# High-Voltage Vacuum Variable Capacitors

## CVDD, CVFP and CSV4 Series

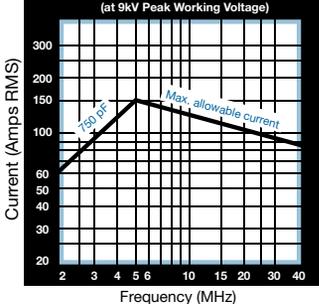
CVDD, CVFP and CSV4 Series Vacuum Variable Capacitors, 750–900pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS)		NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING	MAX.	MIN.	LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVDD-750-7.5S	25–750	7.5	4.5	130	8.00	8.00	4.56	203.20	115.82	4.2	68	6 lb., 13 oz.
CVDD-750-10S	25–750	10	6.0	140	8.00	8.00	4.56	203.20	115.82	4.2	68	6 lb., 13 oz.
CVDD-750-15S	25–750	15	9.0	150	8.00	8.00	4.56	203.20	115.82	4.2	68	6 lb., 13 oz.
CVFP-750-30S	20–750	30	18	200	11.70	11.70	7.20	297.18	182.90	9.0	134	17 lb., 13 oz.
CVFP-750-35S	20–750	35	21	210	11.70	11.70	7.20	297.18	182.90	9.0	134	17 lb., 13 oz.
CVFP-750-40S	20–750	40	24	220	11.70	11.70	7.20	297.18	182.90	9.0	134	17 lb., 13 oz.
CSV4-900-0103	10–900	3	1.8	39	6.53	6.53	2.35	165.80	59.70	25	—	23 oz.
CSV4-900-0106	10–900	5	3	43	6.53	6.53	2.35	165.80	59.70	25	—	23 oz.
CSV4-900-0206	10–900	6	3.6	45	6.53	6.53	2.35	165.80	59.70	25	—	23 oz.

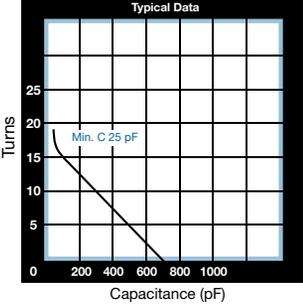
### CVDD-750



Continuous RMS Amperes vs Frequency

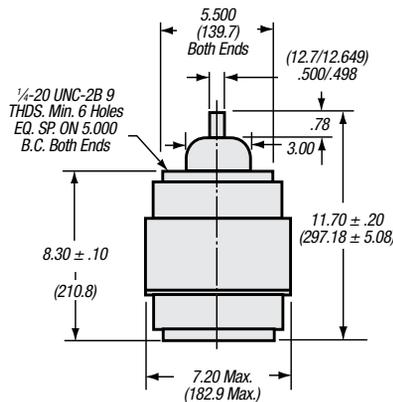


Capacity vs Turns

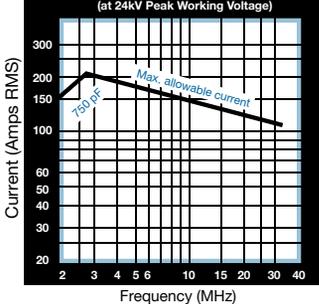


Mounting: Both ends have tapped holes.

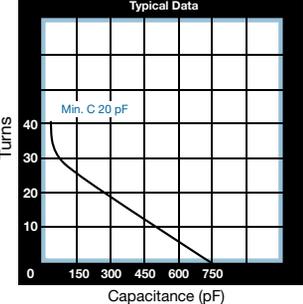
### CVFP-750



Continuous RMS Amperes vs Frequency

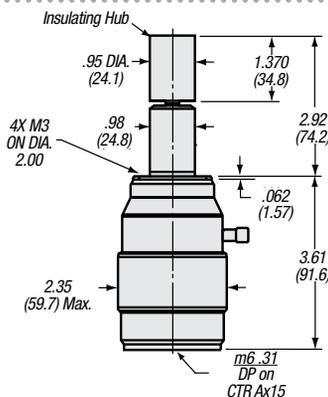


Capacity vs Turns

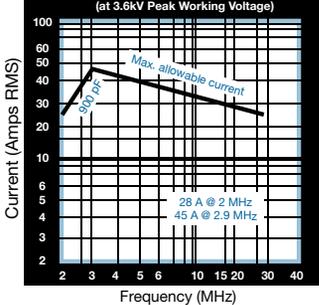


Mounting: Both ends have tapped holes.

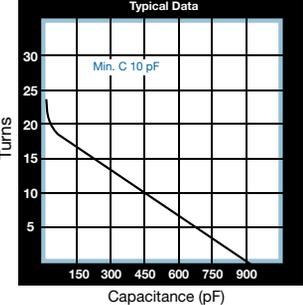
### CSV4-900



Continuous RMS Amperes vs Frequency



Capacity vs Turns



Mounting: Both ends have tapped holes.

# High-Voltage Vacuum Variable Capacitors

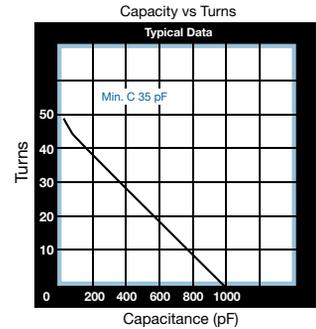
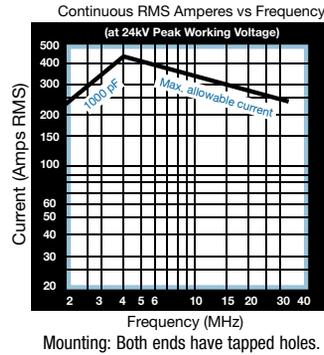
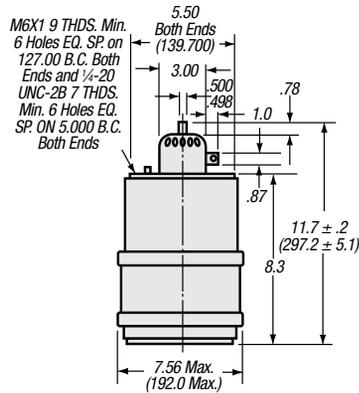
## CAV2, CMV1 and CSV1 Series

CAV2, CMV1 and CSV1 Series Vacuum Variable Capacitors, 1000pF

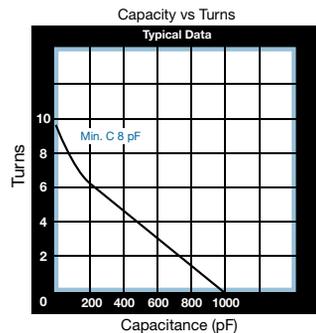
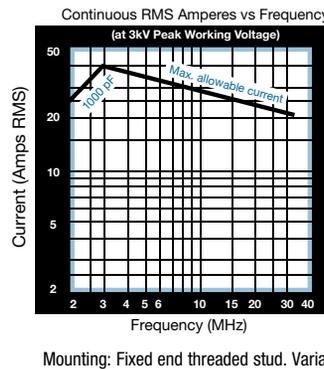
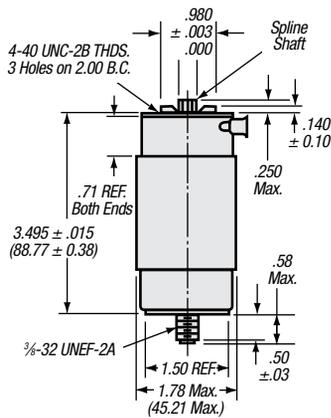
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CAV2-1000-0030	35-1000	30	18	400 <sup>††</sup>	11.70	7.56	297.20	192.00	13	156	18 lb., 2 oz.
CAV2-1000-0035	35-1000	35	21	410 <sup>††</sup>	11.70	7.56	297.20	192.00	13	156	18 lb., 2 oz.
CAV2-1000-0040	35-1000	40	24	425 <sup>††</sup>	11.70	7.56	297.20	192.00	13	156	18 lb., 2 oz.
CMV1-1000-0003 <sup>1</sup>	8-1000	3.0	3.0	40	4.33	1.78	109.86	45.21	1.1	43	14 oz.
CSV1-1000-0003	10-1000	3.0	1.8	65	5.00	3.12	127.00	79.25	2.5	50	1 lb., 14 oz.
CSV1-1000-0005	10-1000	5.0	3.0	70	5.00	3.12	127.00	79.25	2.5	50	1 lb., 14 oz.

<sup>1</sup>Has shorting switch. <sup>††</sup> Forced air cooling.

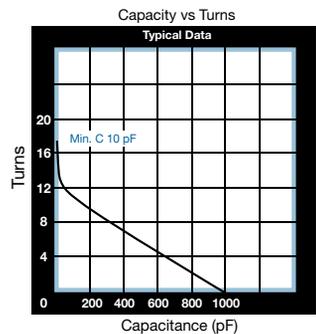
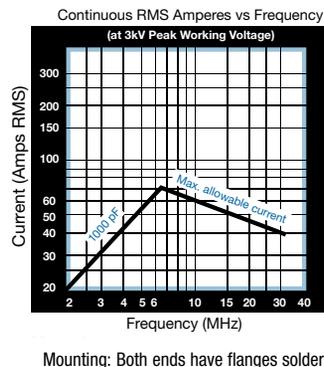
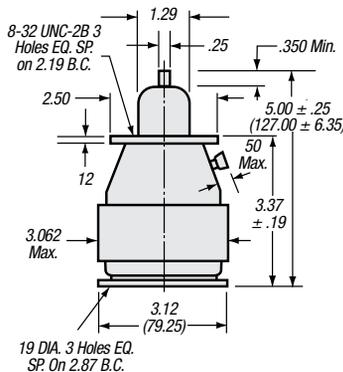
### CAV2-1000



### CMV1-1000



### CSV1-1000



# High-Voltage Vacuum Variable Capacitors

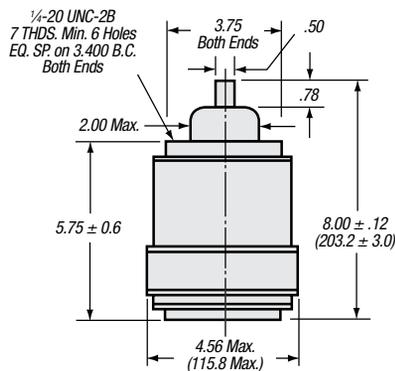
## CVDD, CVFP and CVHP Series

CVDD, CVFP and CVHP Series Vacuum Variable Capacitors, 1000pF

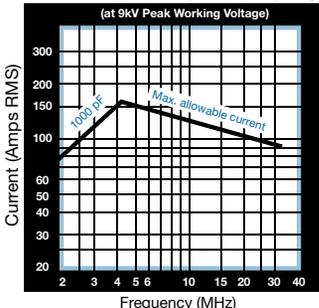
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVDD-1000-7.5S	25-1000	7.5	4.5	130	8.00	4.56	203.20	115.80	4.2	68	6 lb., 13 oz.
CVDD-1000-10S	25-1000	10	6.0	140	8.00	4.56	203.20	115.80	4.2	68	6 lb., 13 oz.
CVDD-1000-15S	25-1000	15	9.0	150	8.00	4.56	203.20	115.80	4.2	68	6 lb., 13 oz.
CVFP-1000-30S	35-1000	30	18	215	11.70	7.20	259.10	182.90	10	150	18 lb., 2 oz.
CVFP-1000-35S	35-1000	35	21	220	11.70	7.20	259.10	182.90	10	150	18 lb., 2 oz.
CVFP-1000-40S	35-1000	40	24	225	11.70	7.20	259.10	182.90	10	150	18 lb., 2 oz.
CVHP-1000-40S*	60-1000	40	24	260	14.50	8.00	368.30	203.20	11.8	168	28 lb., 4 oz.
CVHP-1000-45S*	60-1000	45	27	265	14.50	8.00	368.30	203.20	11.8	168	28 lb., 4 oz.
CVHP-1000-50S*	60-1000	50	30	270	14.50	8.00	368.30	203.20	11.8	168	28 lb., 4 oz.

\* CVHP (metric version) available.

### CVDD-1000

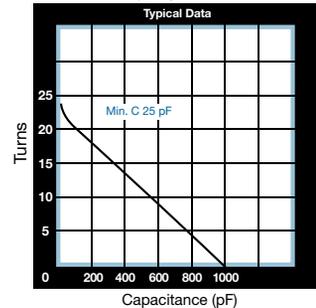


Continuous RMS Amperes vs Frequency

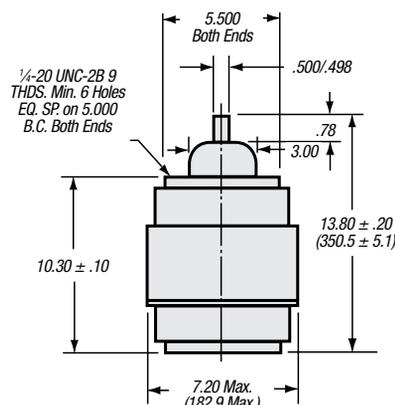


Mounting: Both ends have tapped holes.

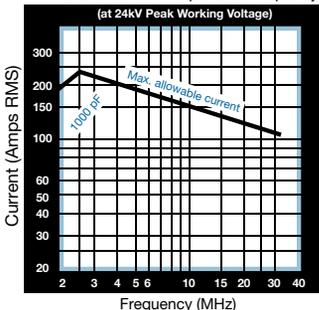
Capacity vs Turns



### CVFP-1000

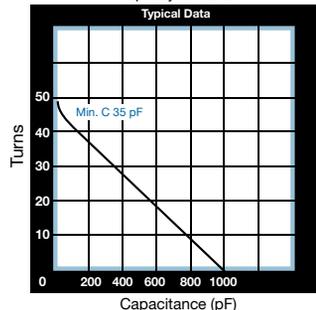


Continuous RMS Amperes vs Frequency

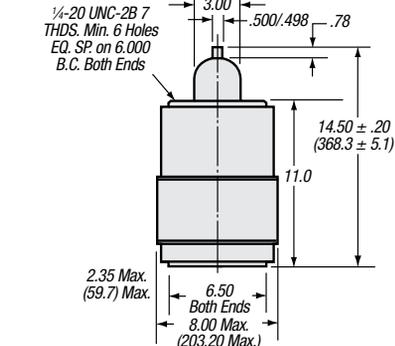


Mounting: Both ends have tapped holes.

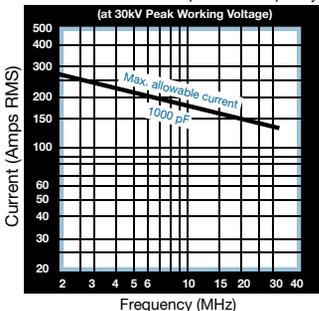
Capacity vs Turns



### CVHP-1000

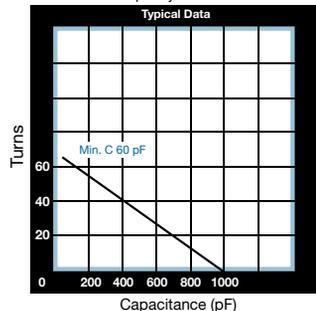


Continuous RMS Amperes vs Frequency



Mounting: Both ends have tapped holes.

Capacity vs Turns



# High-Voltage Vacuum Variable Capacitors

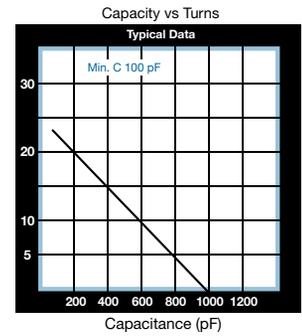
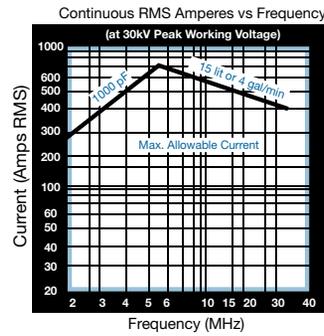
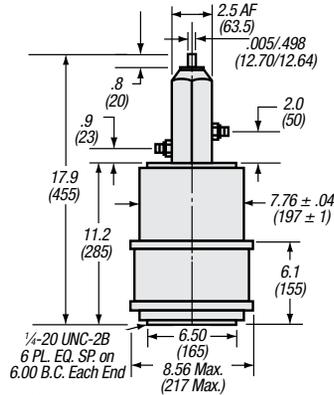
## CWV5, M/CVCJ and M/CSV5 Series

CWV5, M/CVCJ and M/CSV5 Series Vacuum Variable Capacitors, 1000pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CWV5-1000-0040	100-1000	40	24	660 <sup>†</sup>	17.90	8.56	455.00	217.00	18	250	30 lb.
CWV5-1000-0045	100-1000	45	27	680 <sup>†</sup>	17.90	8.56	455.00	217.00	18	250	30 lb.
CWV5-1000-0050	100-1000	50	30	700 <sup>†</sup>	17.90	8.56	455.00	217.00	18	250	30 lb.
M/CVCJ-1000-3S*	7-1000	3	1.8	60	7.56	3.07	192.02	77.98	2.5	45	2 lb., 12 oz.
M/CVCJ-1000-5S*	7-1000	5	3.0	70	7.56	3.07	192.02	77.98	2.5	45	2 lb., 12 oz.
M/CSV5-1000-003*	100-1000	3	1.8	37	5.18	2.32	132	59	1.9	50	1 lb., 6 oz.
M/CSV5-1000-005*	100-1000	5	3.0	62	5.18	2.32	132	59	1.9	50	1 lb., 6 oz.

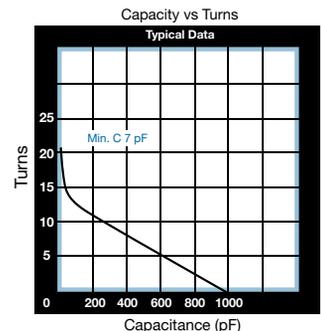
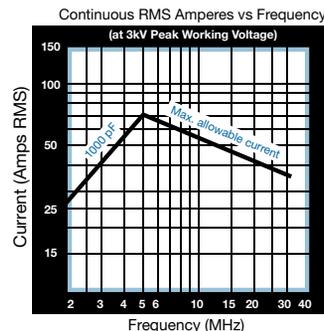
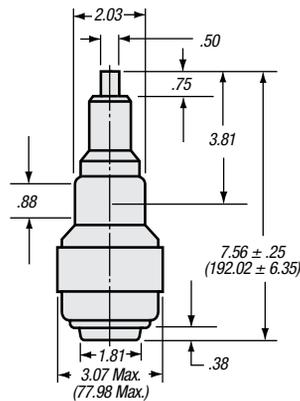
\* M/C = Long Life Jenn-X.

### CWV5-1000



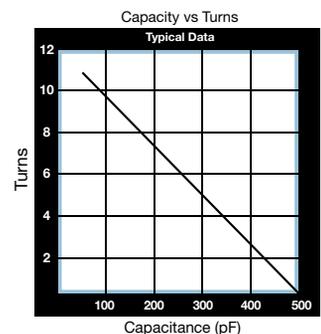
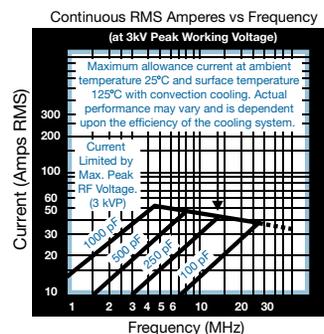
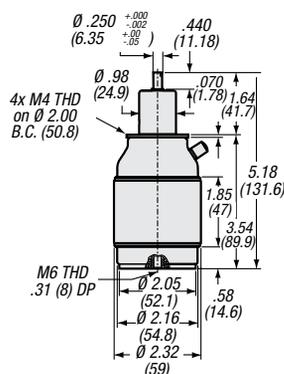
Mounting: Both ends have tapped holes.

### M/CVCJ-1000



Mounting: Use flange FM1C on fixed end. Flange FM2 on variable end.

### M/CSV5-1000



Mounting: Both ends have tapped holes.

# High-Voltage Vacuum Variable Capacitors

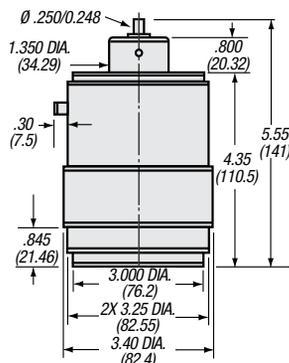
## PV4, CWV5 and CSV4 Series

PV4, CWV5 and CSV4 Series Vacuum Variable Capacitors, 1000–1400pF

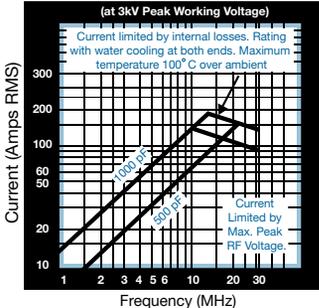
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
PV4-1000-05	80–1000	5	3	180	5.55	3.40	141.00	86.4	2.062	85	4.6 lb.
CWV5-1300-0140	40–1300	40	24	700 <sup>†</sup>	21.70	8.56	550.00	218.00	25	250	35 lb.
CWV5-1300-0145	40–1300	45	27	725 <sup>†</sup>	21.70	8.56	550.00	218.00	25	250	35 lb.
CWV5-1300-0150	40–1300	50	30	750 <sup>†</sup>	21.70	8.56	550.00	218.00	25	250	35 lb.
CSV4-1400-0003	8–1400	3.0	1.8	45	5.57	2.36	142.00	60.00	1.5	15	1 lb., 7 oz.

<sup>†</sup> Water cooling.

### PV4-1000

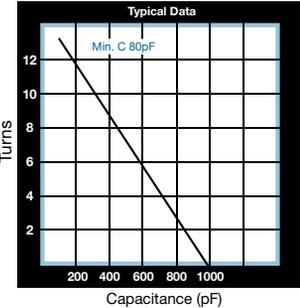


Continuous RMS Amperes vs Frequency

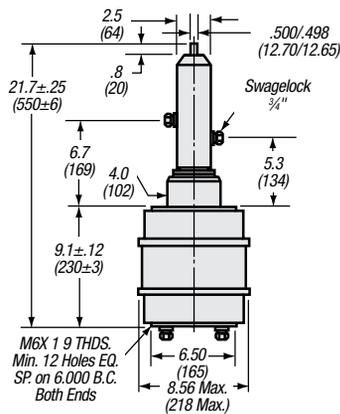


Mounting: Both ends have tapped holes.

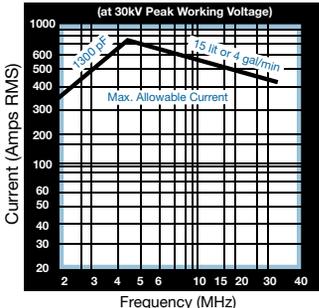
Capacity vs Turns



### CWV5-1300

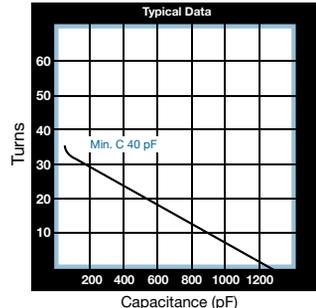


Continuous RMS Amperes vs Frequency

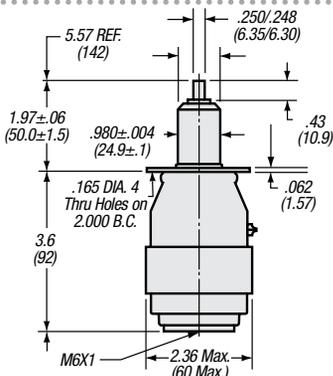


Mounting: Both Ends have tapped holes.

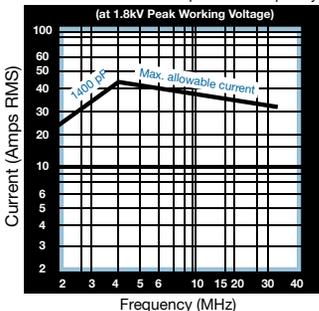
Capacity vs Turns



### CSV4-1400

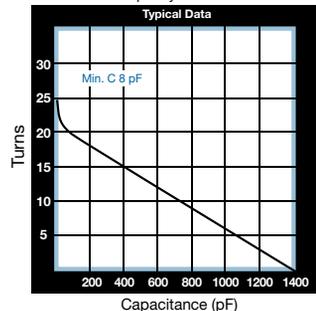


Continuous RMS Amperes vs Frequency



Mounting: Use flange FM2S on fixed end. Flange FM2 on variable end.

Capacity vs Turns



# High-Voltage Vacuum Variable Capacitors

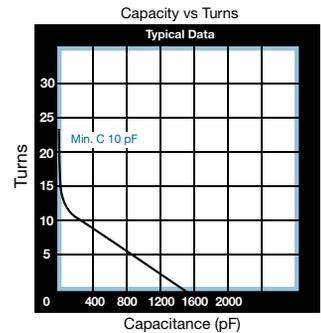
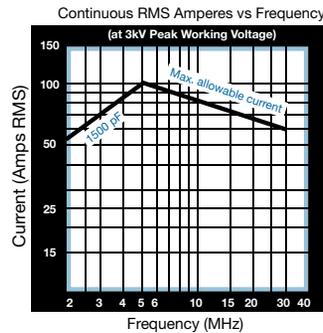
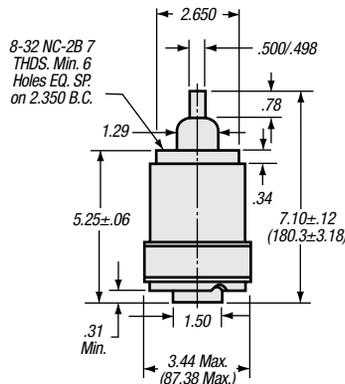
## CVCD, CVDP and CVFP Series

CVCD, CVDP and CVFP Series Vacuum Variable Capacitors, 1500pF

CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVCD-1500-3S	10-1500	3.0	1.8	80	7.10	3.44	180.30	87.38	2.5	42	3 lb., 10 oz.
CVCD-1500-5S	10-1500	5.0	3.0	100	7.10	3.44	180.30	87.38	2.5	42	3 lb., 10 oz.
CVDP-1500-7.5S	35-1500	7.5	4.5	160	9.80	5.56	248.90	142.70	8.0	84	10 lb.
CVDP-1500-10S	35-1500	10	6.0	165	9.80	5.56	248.90	142.70	8.0	84	10 lb.
CVDP-1500-15S	35-1500	15	9.0	180	9.80	5.56	248.90	142.70	8.0	84	10 lb.
CVFP-1500-30S*	100-1500	30	18	215	13.80	7.20	350.50	182.90	10	250	20 lb., 4 oz.
CVFP-1500-35S*	100-1500	35	21	220	13.80	7.20	350.50	182.90	10	250	20 lb., 4 oz.
CVFP-1500-40S*	100-1500	40	24	225	13.80	7.20	350.50	182.90	10	250	20 lb., 4 oz.

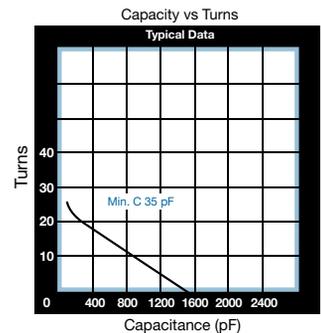
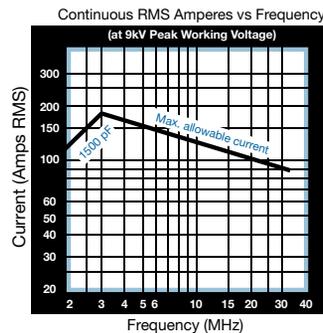
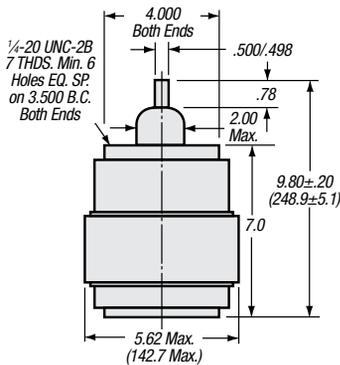
\* CVFP (metric version) available.

### CVCD-1500



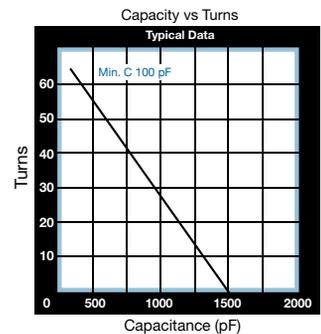
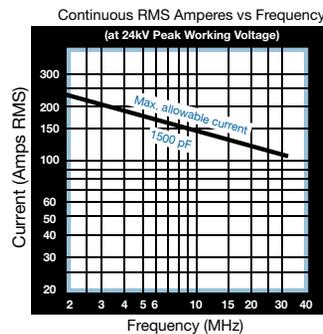
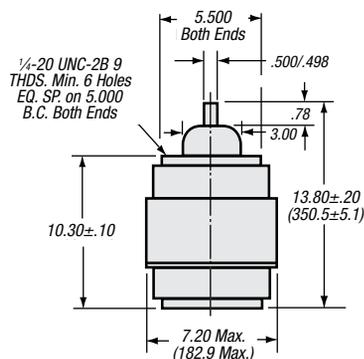
Mounting: Fixed end ferrule use FM1H flange. Variable end tapped holes.

### CVDP-1500



Mounting: Both ends have tapped holes.

### CVFP-1500



Mounting: Both ends have tapped holes.

## High-Voltage Vacuum Variable Capacitors

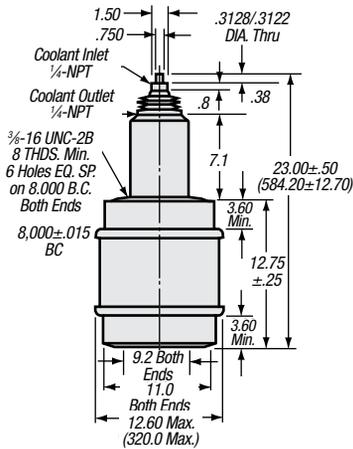
### CWV1 and CWV2 Series

CWV1 and CWV2 Series Vacuum Variable Capacitors, 1600pF

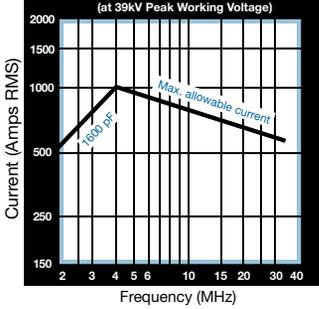
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	LENGTH (IN.)	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT
		TEST	WORKING			DIA. (IN.)	LENGTH (MM)	DIA. (MM)			
CWV1-1600-0055	100-1600	55	33	960 <sup>†</sup>	23.00	12.60	584.20	320.00	N/A	375	138 lb.
CWV1-1600-0060	100-1600	60	36	980 <sup>†</sup>	23.00	12.60	584.20	320.00	N/A	375	138 lb.
CWV1-1600-0065	100-1600	65	39	1000 <sup>†</sup>	23.00	12.60	584.20	320.00	N/A	375	138 lb.
CWV2-1600-0030	100-1600	30	18	750 <sup>†</sup>	25.00	8.56	635.00	217.42	26	156	30 lb.
CWV2-1600-0035	100-1600	35	21	770 <sup>†</sup>	25.00	8.56	635.00	217.42	26	156	30 lb.
CWV2-1600-0040	100-1600	40	24	790 <sup>†</sup>	25.00	8.56	635.00	217.42	26	156	30 lb.

<sup>†</sup> Water cooling.

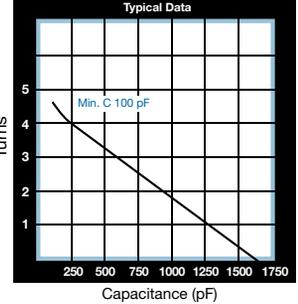
#### CWV1-1600



Continuous RMS Amperes vs Frequency

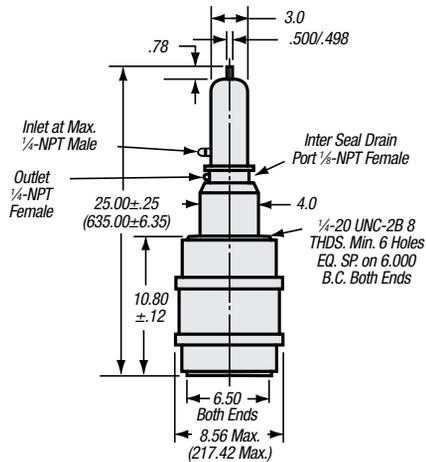


Capacity vs Turns

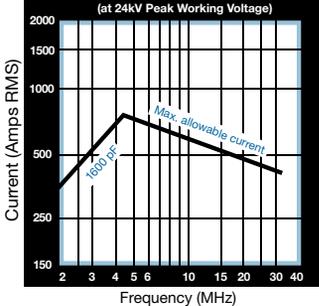


Mounting: Both ends have tapped holes.

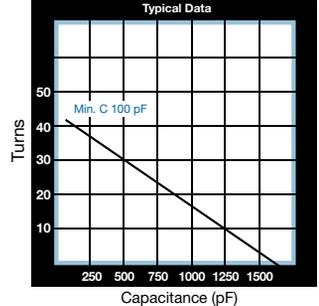
#### CWV2-1600



Continuous RMS Amperes vs Frequency



Capacity vs Turns



Mounting: Both ends have tapped holes.

# High-Voltage Vacuum Variable Capacitors

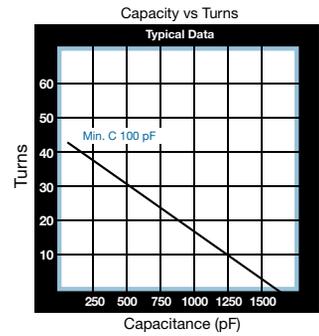
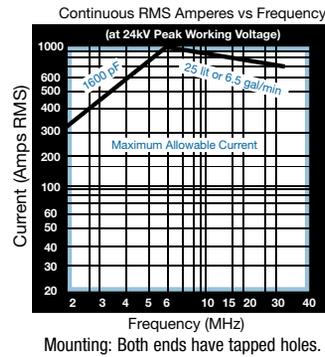
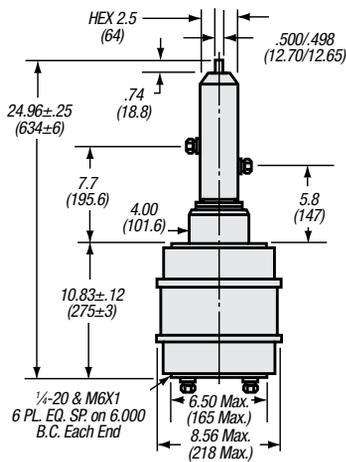
## CWV3 and CWV4 Series

CWV3 and CWV4 Series Vacuum Variable Capacitors, 1600pF

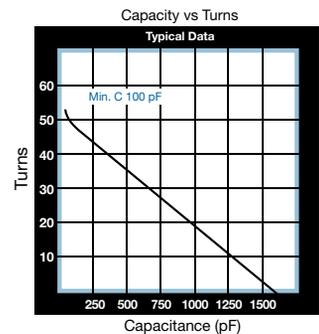
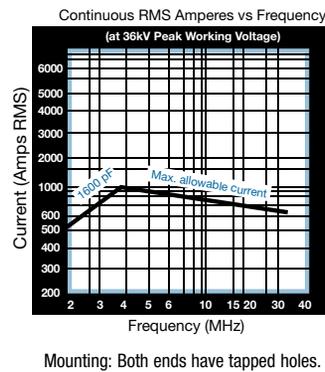
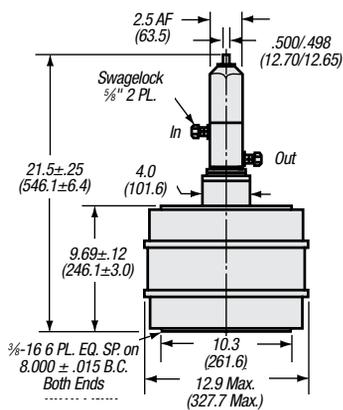
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CWV3-1600-0035	100-1600	35	21	980†	24.96	8.56	634.00	218.00	13	250	35 lb.
CWV3-1600-0040	100-1600	40	24	1000†	24.96	8.56	634.00	218.00	13	250	35 lb.
CWV4-1600-0050	100-1600	50	30	970†	21.50	12.90	546.10	327.70	17	250	125 lb.
CWV4-1600-0055	100-1600	55	33	980†	21.50	12.90	546.10	327.70	17	250	125 lb.
CWV4-1600-0060	100-1600	60	36	1000†	21.50	12.90	546.10	327.70	17	250	125 lb.

† Water cooling.

### CWV3-1600



### CWV4-1600



## High-Voltage Vacuum Variable Capacitors

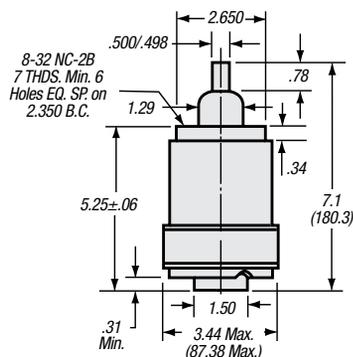
### CVCD, CVEP and CVFP Series

CVCD, CVEP and CVFP Series Vacuum Variable Capacitors, 2000pF

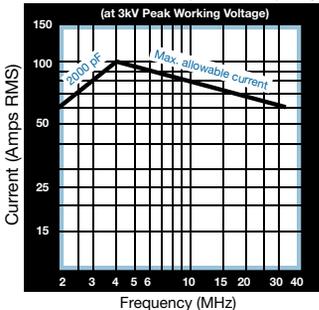
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	LENGTH (IN.)	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT
		TEST	WORKING			DIA. (IN.)	LENGTH (MM)	DIA. (MM)			
CVCD-2000-3S	20-2000	3.0	1.8	70	7.10	3.44	180.30	87.38	2.5	42	3 lb., 10 oz.
CVCD-2000-5S	20-2000	5.0	3.0	100	7.10	3.44	180.30	87.38	2.5	42	3 lb., 10 oz.
CVEP-2000-10S	100-2000	10	6.0	190	10.20	7.20	259.10	182.90	13	144	18 lb., 2 oz.
CVEP-2000-15S	100-2000	15	9.0	200	10.20	7.20	259.10	182.90	13	144	18 lb., 2 oz.
CVFP-2000-25S*	100-2000	25	15	205	14.50	8.20	368.30	208.28	11.8	180	29 lb., 4 oz.
CVFP-2000-30S*	100-2000	30	18	215	14.50	8.20	368.30	208.28	11.8	180	29 lb., 4 oz.
CVFP-2000-35S*	100-2000	35	21	220	14.50	8.20	368.30	208.28	11.8	180	29 lb., 4 oz.

\* CVFP (metric version) available.

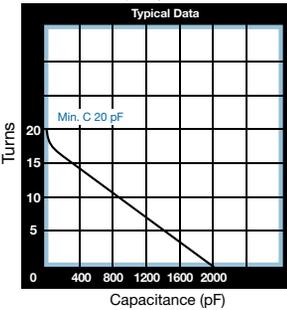
#### CVCD-2000



Continuous RMS Amperes vs Frequency

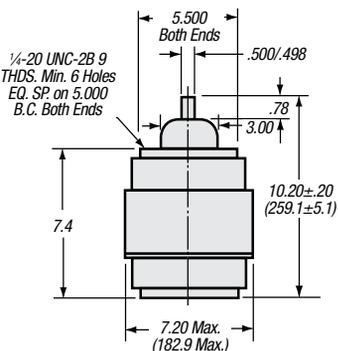


Capacity vs Turns

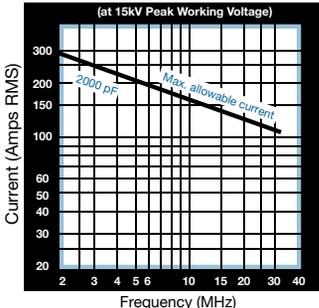


Mounting: Fixed end ferrule use FM1H flange. Variable end tapped holes.

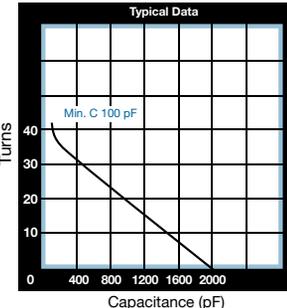
#### CVEP-2000



Continuous RMS Amperes vs Frequency

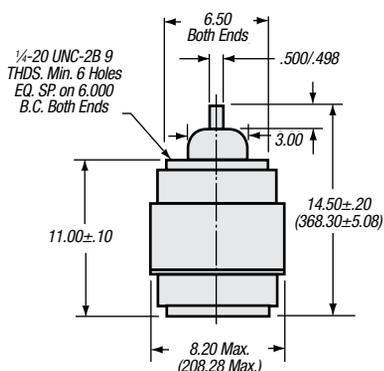


Capacity vs Turns

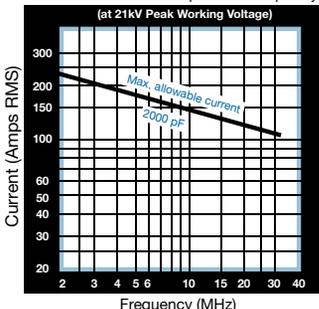


Mounting: Both ends have tapped holes.

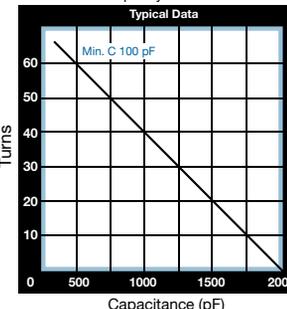
#### CVFP-2000



Continuous RMS Amperes vs Frequency



Capacity vs Turns



Mounting: Both ends have tapped holes.

# High-Voltage Vacuum Variable Capacitors

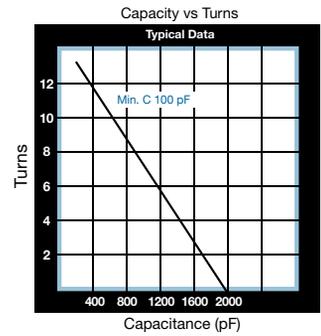
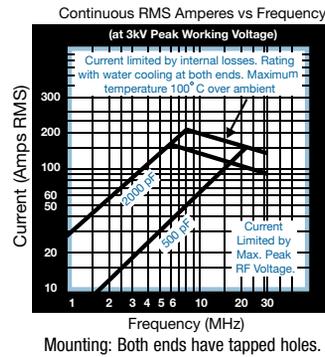
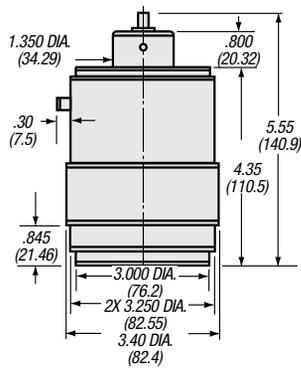
## PV4, CWV4 and CVDP Series

PV4, CWV4 and CVDP Series Vacuum Variable Capacitors, 2000–2300pF

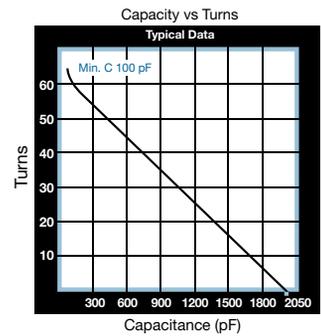
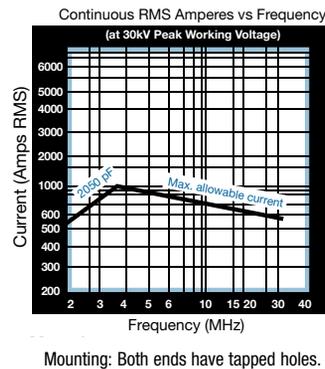
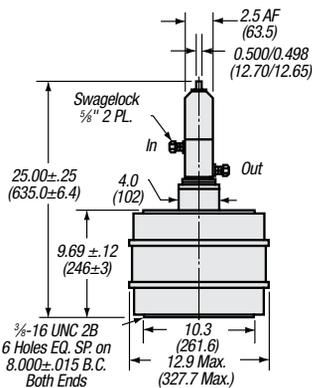
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
PV4-2000-05	100–2000	5	3	210	5.55	3.40	140.90	86.40	2.062	85	4.6 lb.
CWV4-2050-0040	100–2050	40	24	940†	25.00	12.90	635.00	327.70	18	250	125 lb.
CWV4-2050-0045	100–2050	45	27	960†	25.00	12.90	635.00	327.70	18	250	125 lb.
CWV4-2050-0050	100–2050	50	30	1000†	25.00	12.90	635.00	327.70	18	250	125 lb.
CVDP-2300-7.5S	50–2300	7.5	4.5	160	9.80	5.62	248.90	142.70	6.0	84	9 lb., 14 oz.
CVDP-2300-10S	50–2300	10	6.0	180	9.80	5.62	248.90	142.70	6.0	84	9 lb., 14 oz.
CVDP-2300-15S	50–2300	15	9.0	200	9.80	5.62	248.90	142.70	6.0	84	9 lb., 14 oz.

† Water cooling.

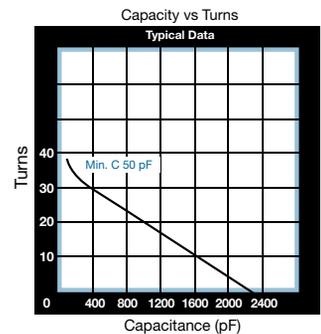
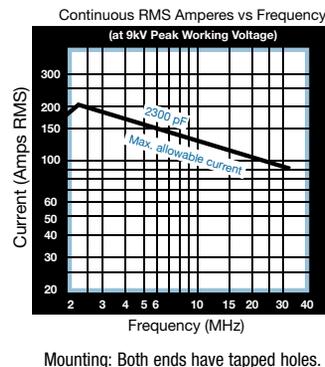
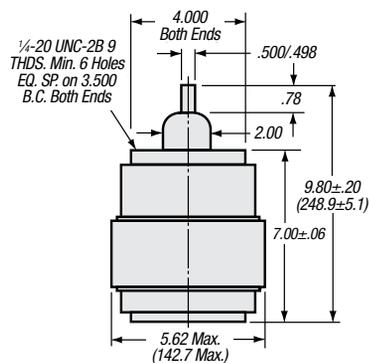
### PV4-2000



### CWV4-2050



### CVDP-2300



# High-Voltage Vacuum Variable Capacitors

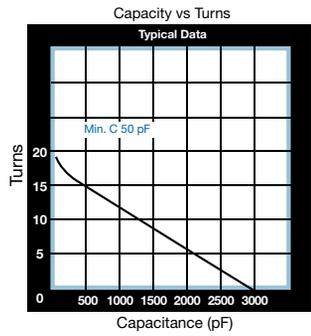
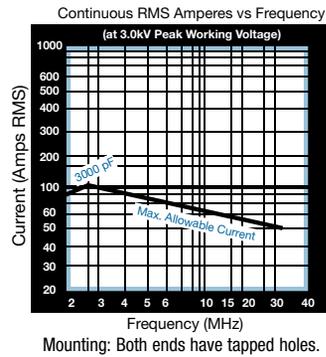
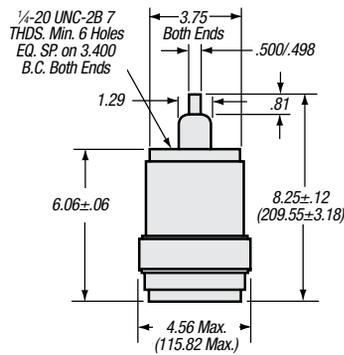
## CVCD and CMV1 Series

CVCD and CMV1 Series Vacuum Variable Capacitors, 3000–4000pF

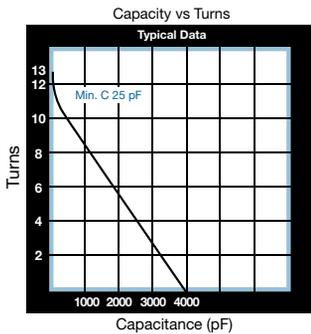
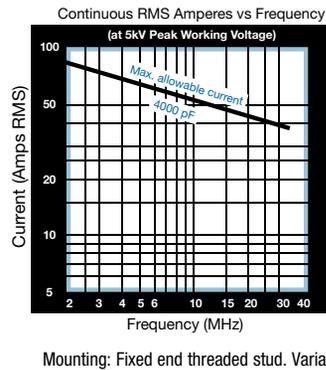
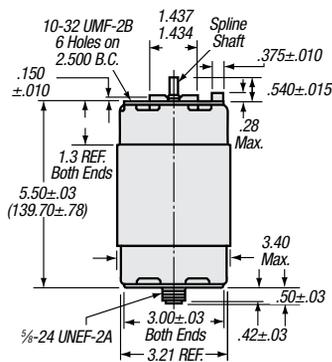
CAT. NO.	CAPACITY RANGE (PF)	VOLTAGE PEAK (KV)		CURRENT AMPS (RMS) MAX.	NOM. DIMENSIONS			TORQUE (IN.-LBS.) MAX.	DIRECT PULL (LBS.) MAX.	NOM. WEIGHT	
		TEST	WORKING		LENGTH (IN.)	DIA. (IN.)	LENGTH (MM)				DIA. (MM)
CVCD-3000-3S	50–3000	3.0	1.8	88	8.25	4.56	209.55	115.82	1.562	45	5 lb., 12 oz.
CVCD-3000-5S	50–3000	5.0	3.0	100	8.25	4.56	209.55	115.82	1.562	45	5 lb., 12 oz.
CMV1-4000-0005 <sup>1</sup>	25–4000	5.0	5.0	70	6.54	3.40	166.12	86.36	1.875	50	4 lb., 2 oz.

<sup>1</sup>Has shorting switch.

### CVCD-3000



### CMV1-4000



# High-Voltage Vacuum and Gas-Filled Relays

## RF41, RF42, RF43 and RF44 Series

RF41, RF42, RF43 and RF44 Series SPST Vacuum Relays, 4–9kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MO)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)				OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60 HZ	2.5 MHZ	16 MHZ	32 MHZ												
RF41-26S	4	3.6	3.6	3.2	2.5	1.6	1.6	20	10	10	16	1–10	290	50	10 @ 55–2000 Hz	1	1 (28)
RF42-26S	12	10	7.5	5													
RF44-26S	6	3.6	3.6	3.2	2.5	1.6	1.6	12	4	4	16	1–10	80	50	30 @ 95–2000 Hz	1	1 (28)
RF43-26S	9	7	7	6	4	1.6	1.1	20	10	10	16	1–10	47	50	10 @ 55–500 Hz	0.5	1 (28)

12VDC coil versions available; please contact factory for lead times. For available flange versions, the flange diameter is 1.125".

### RF41-26S

Form: N/C

Flange Version Available:

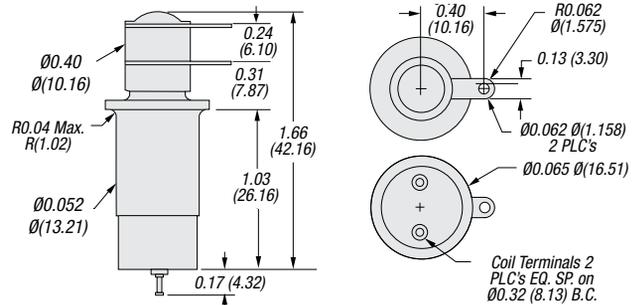
RF41D-26S

### RF42-26S

Form: N/O

Flange Version Available:

RF42D-26S

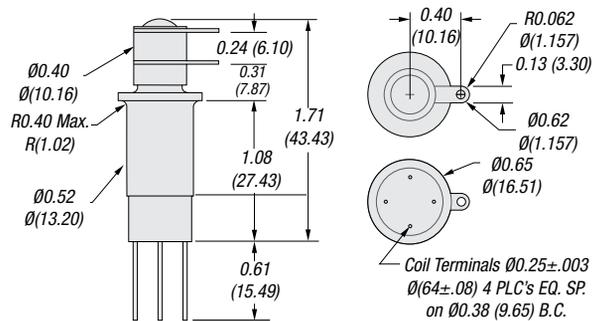


### RF44-26S

Form: Latching

Flange Version Available:

RF44D-26S

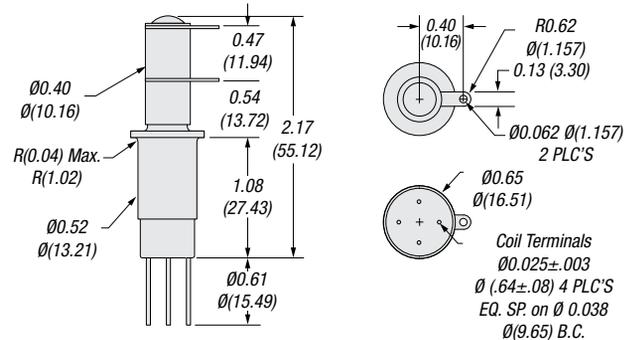


### RF43-26S

Form: Latching

Flange Version Available:

RF43D-26S



## High-Voltage Vacuum and Gas-Filled Relays

### RF4A, RF5A, RF6A and RF47 Series

RF4A, RF5A, RF6A and RF47 Series SPST Vacuum Relays, 10kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MO)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)				OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60HZ	2.5 MHZ	16 MHZ	32 MHZ												
RF4A-26S	10	8	7	6	5	2.5	2.5	15	18	18	16	1-10	156	50	10 @ 55-2000 Hz	1	2 (56)
RF5A-26S	10	8	8	6	5	1.6	1.6	20	8	6	16	1-10	920	30	10 @ 55-1000 Hz	10	.5 (14)
RF6A-26S		12	10	5	2												
RF47-26S	10	8	8	6	5	1.6	1.6	8*	4	4	16	1-10	80	50	30 @ 55-2000 Hz	1	1 (28)

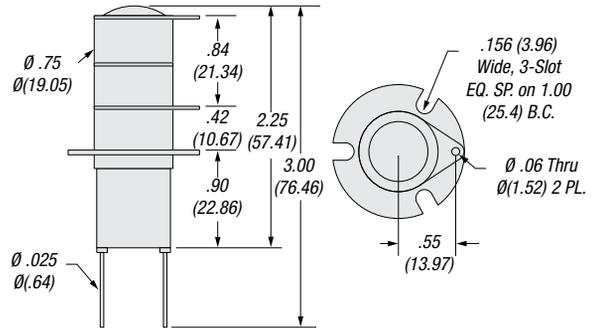
12VDC coil versions available; please contact factory for lead times. For available flange versions, the flange diameter is 1.125".

\* Please contact Jennings Technology for lower/different values.

#### RF4A-26S

Form: N/C

Equipped with integral flange

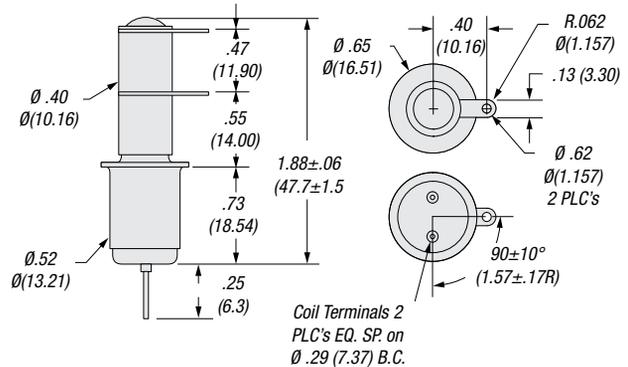


#### RF5A-26S

Form: N/C

Flange Version Available:

RF5AD-26S

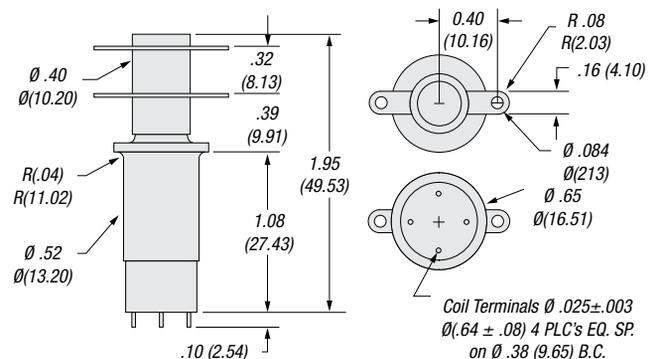


#### RF6A-26S

Form: N/O

Flange Version Available:

RF6AD-26S

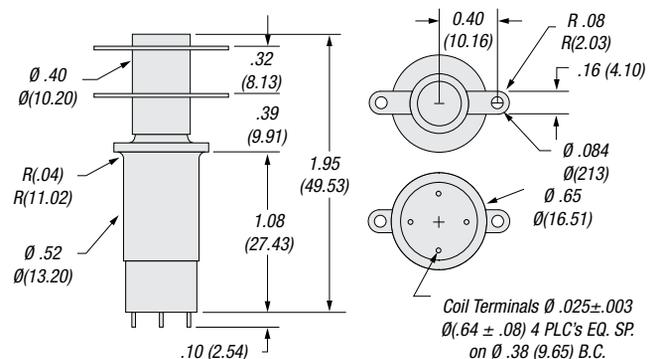


#### RF47-26S

Form: Latching

Flange Version Available:

RF47D-26S



# High-Voltage Vacuum and Gas-Filled Relays

## RF72, RF80 and RF88 Series

RF72, RF80 and RF88 Series SPST Vacuum Relays, 10kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MΩ)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)				OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60HZ	2.5 MHZ	16 MHZ	32 MHZ												
RF72-26S	10	8	8	6	5	1.6	1.6	20	4	4	16*	1-10*	80	50	30 @ 55-2000 Hz	2	1 (28)
RF72-N1105		50	35	18	12												
RF72-N1107		8	8	6	4												
RF80-26S	10	8	8	6	4	1.6	1.6	8*	8	3	16	1-10	290	30	10 @ 55-2000 Hz	2	1 (28)
RF80-N1105		35	35	18	12												
RF80-N1107		8	8	6	4												
RF88-26S	10	8	8	6	5	1.6	1.6	20	4	4	16	1-10	80	50	10 @ 55-2000 Hz	1	1 (28)
RF88-N1105		10	10	6	5												
RF88-N1107		8	8	6	5												

12VDC coil versions available; please contact factory for lead times. For available flange versions, the flange diameter is 1.125".

\* Please contact Jennings Technology for lower/different values.

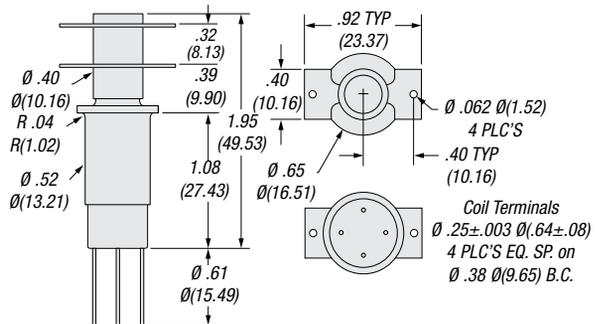
### RF72-26S, RF72-N1105 and RF72-N1107

All three models —

Form: Latching

Flange Version Available:

Yes, please call to order

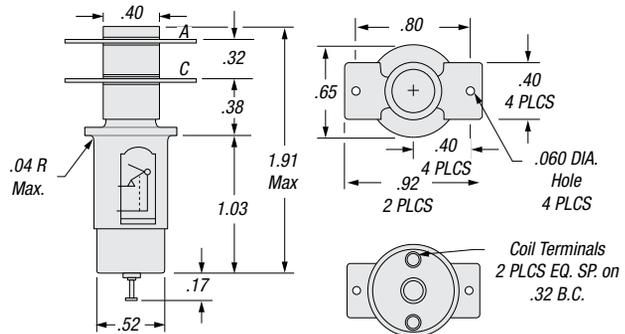


### RF80-26S

Form: N/O

Flange Version Available:

Yes, please call to order

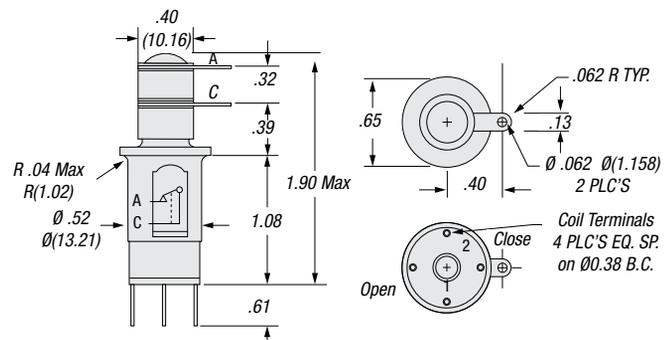


### RF47-26S

Form: N/C

Flange Version Available:

Yes, please call to order



# High-Voltage Vacuum and Gas-Filled Relays

## RF50, RF51, RF52, RF53 and RF73 Series

RF50, RF51, RF52, RF53 and RF73 Series SPST Vacuum Relays, 12–17.5kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MΩ)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)				OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60 HZ	2.5 MHZ	16 MHZ	32 MHZ												
RF50-26S <sup>†</sup>	12*	10	7	6	4	1.5	1.5	20	15	15	16	1–10	290	50	10 @ 55–2000 Hz	0.5	1 (28)
RF51-26S <sup>†</sup>	12	12	10	6	5	1.2	1.2	8**	4	4	16*	1–10*	47	30	10 @ 55–2000 Hz	5	1.5 (43)
RF73-26S	14	12	12	9	7	1.2	1.2	8**	4	4	16*	1–10*	47	30	10 @ 55–2000 Hz	5	1.5 (43)
RF52-26S	17.5	35	35	25	15	0.8	0.8	20	15	15	16	1–10	290	30	10 @ 55–500 Hz	1	1 (28)
RF53-26S		12	12	9	7												

<sup>†</sup> Can be used for hot switch applications.

12VDC coil versions available; please contact factory for lead times. For available flange versions, the flange diameter is 1.125".

\* 2kV achieved in insulating medium: fluorocarbon liquid or tightly adherent and void-free encapsulant.

\*\* Please contact Jennings Technology for lower/different values.

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### RF50-26S<sup>†</sup>

Form: N/C

Flange Version Available:  
RF50D-26S

### RF51-26S<sup>†</sup>

Form: N/O

Flange Version Available:  
RF51D-26S

### RF73-26S

Form: Latching

Flange Version Available:  
Yes, please call to order

### RF52-26S

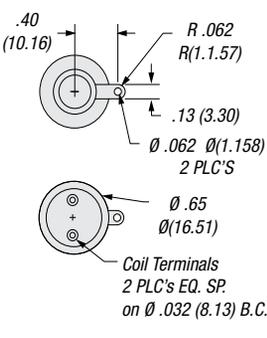
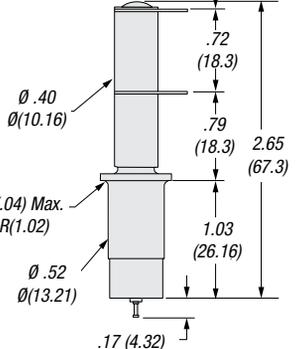
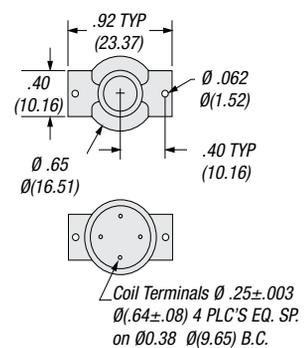
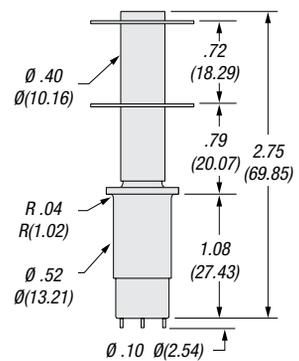
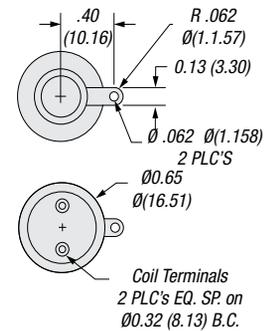
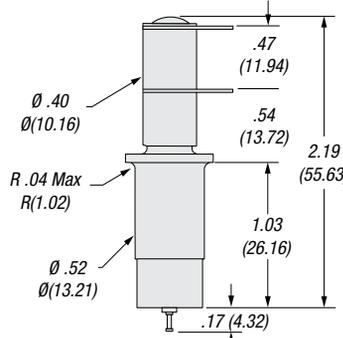
Form: N/C

Flange Version Available:  
RF52D-26S

### RF53-26S

Form: N/O

Flange Version Available:  
RF53D-26S



# High-Voltage Vacuum and Gas-Filled Relays

## RF69 and RJ8A Series

RF69 and RJ8A Series SPST Vacuum Relays, 24–33kV

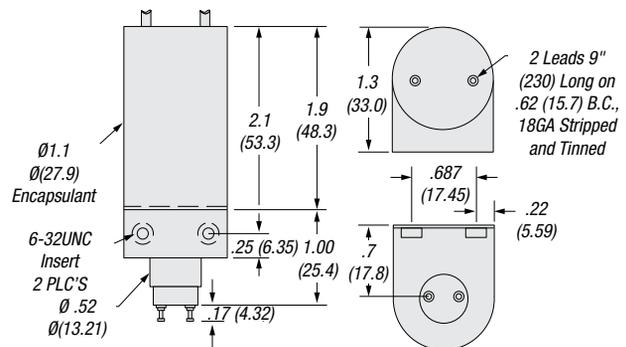
CAT. NO.	TEST VOLTAGE (KV PEAK)		RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MΩ)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
	60 HZ	DC OR 60 HZ	MAX CONT. CURRENT (AMPS)				OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
			2.5 MHZ	16 MHZ	32 MHZ													
RF69-26S	24	12 15	— —	— —	— —	2.5	2.5	40	15	15	18	1–10	290	30	.06 @ 55–500 Hz	2	3 (85)	
RJ8A-26S	33	28 110	25 60	12 40	10 30	1.3	1	3	18	8	16	1–10	120	30	10 @ 55–500 Hz, 5 @ 500–2000 Hz	2	10 (283)	

12VDC coil version available for model RF69-26S; please contact factory for lead times.  
For available flange versions, the flange diameter is 1.125".

### RF69-26S

Form: N/C

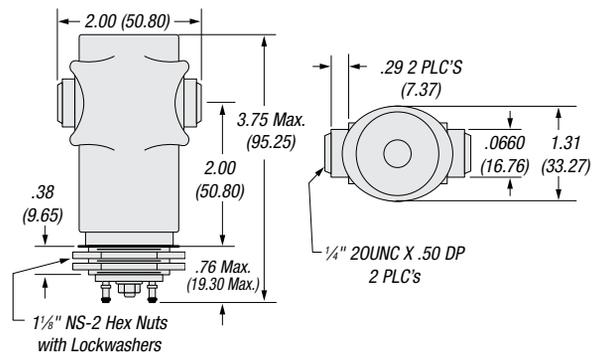
Equipped with integral flange



### RJ8A-26S

Form: N/O

Flange Version Available:  
None



# High-Voltage Vacuum and Gas-Filled Relays

## RF1E, RF60 and RF61 Series

RF1E, RF60 and RF61 Series SPDT Vacuum Relays, 4kV

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CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MΩ)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)				OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60 HZ	2.5 MHZ	16 MHZ	32 MHZ												
RF1E-26S	4	2 8	2 6	2 4	2 2	1.6	2	30	10	10	16	1-10	920	30	10 @ 55-2000 Hz	10	1 (28)
RF60-26S	4	3.6 12	3.6 10	3.2 6	2.5 5	1.6	1.6	20	7	7	18	1-12	47	50	10 @ 55-2000 Hz	0.5	1 (28)
RF61-26S	4	3.6 10	3.6 8	3.2 7	2.5 5	1.6	1.6	20	10	10	16	1-10	290	50	10 @ 55-2000 Hz	0.5	1 (28)

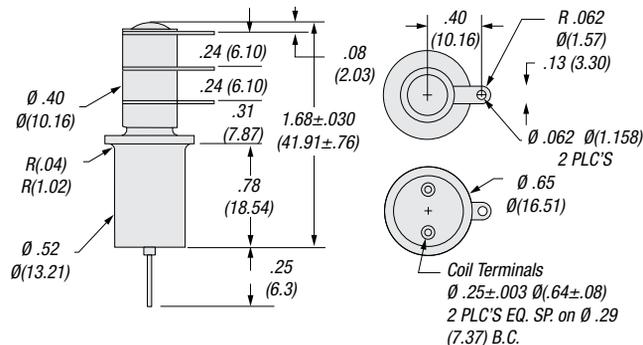
*12VDC coil versions available; please contact factory for lead times. For available flange versions, the flange diameter is 1.125".*

### RF1E-26S

Form: SPDT

Flange Version Available:

RF1D-26S

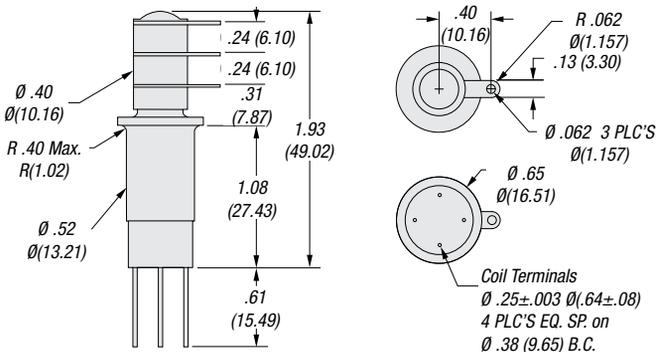


### RF60-26S

Form: Latching

Flange Version Available:

RF60D-26S

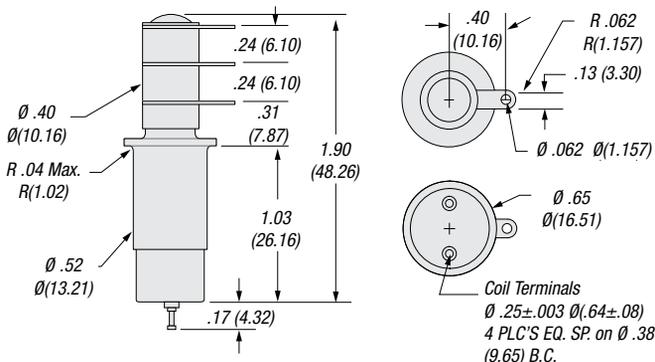


### RF61-26S

Form: SPDT

Flange Version Available:

RF61D-26S



# High-Voltage Vacuum and Gas-Filled Relays

## RJ1A, RJ1H, RJ1C and RJ1D Series

RJ1A, RJ1H, RJ1C and RJ1D Series SPDT Vacuum Relays, 5–7kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MO)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)				OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60 HZ	2.5 MHZ	16 MHZ	32 MHZ												
RJ1A-26S	5	3.5 18	2.5 14	2 9	1.5 7	2	2.5	10	8	8	16	1–10	335	50	10 @ 55–2000 Hz	2	1 (28)
RJ1H-26S <sup>†</sup> RJ1H-26N877 <sup>†</sup>	5	2.5 3	Hot Break Hot Break	—	—	2	2.5	30	6	6	16	1–10	335	50	10 @ 55–2000 Hz	2 1	1 (28)
RJ1C-26S <sup>†*</sup> RJ1D-15S <sup>†*</sup>	6 7	6 7 18	Hot Break Hot Break	—	—	2	2.5	20	6	6	14 10	1–10 0.7–7	335 85	50	20 @ 35–60 Hz, 40 @ 60–125 Hz, 30 @ 125–550 Hz	1	1 (28)

12 or 115VDC coil versions available; please contact factory for lead times.

<sup>†</sup> Can be used for hot switch applications.

For available flange versions, the flange diameter is 1.125".

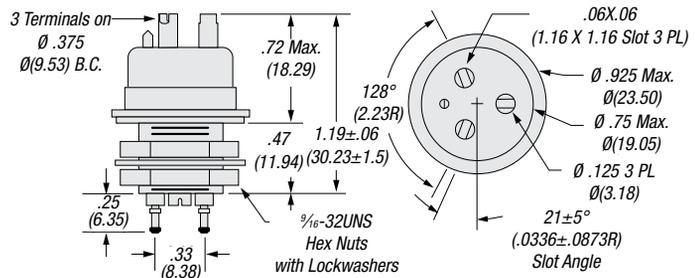
\* Units to be encapsulated by customer, extended vibration profile, HiPot in insulating fluid.

### RJ1A-26S

Form: SPDT

Flange Version Available:

None

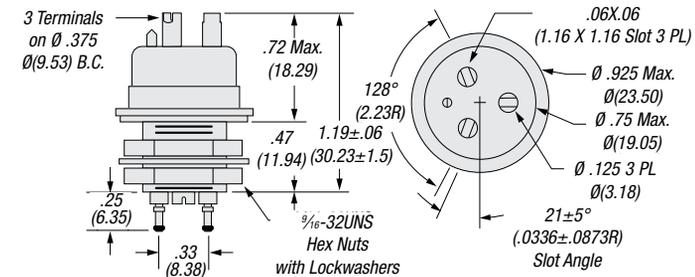


### RJ1H-26S<sup>†</sup>

Form: SPDT

Flange Version Available:

None

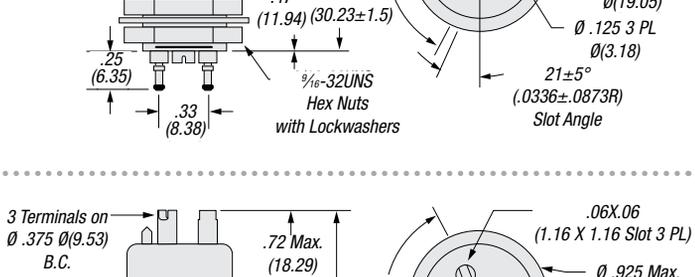


### RJ1H-26N877<sup>†</sup>

Form: SPDT

Flange Version Available:

None

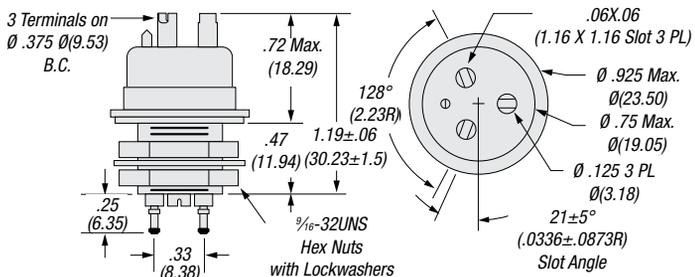


### RJ1C-26S<sup>†\*</sup>

Form: SPDT

Flange Version Available:

None

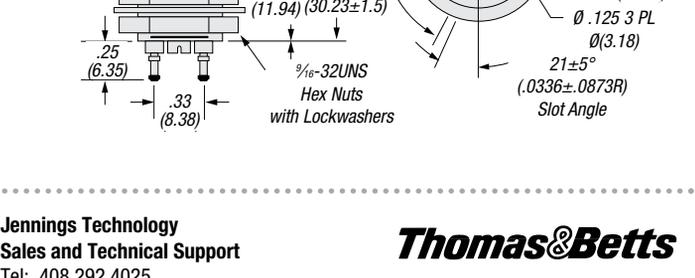


### RJ1D-15S<sup>†\*</sup>

Form: SPDT

Flange Version Available:

None



# High-Voltage Vacuum and Gas-Filled Relays

## RF62, RF65, RF63 and RF3A Series

RF62, RF65, RF63 and RF3A Series SPDT Vacuum Relays, 9–10kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MΩ)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)				OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60 HZ	2.5 MHZ	16 MHZ	32 MHZ												
RF62-26S	9	7	7	6	4	1.6	1.1	20	10	10	16	1-10	290	50	10 @ 55-2000 Hz	1	1 (28)
RF65-12S	9	10	10	6	5	1.6	1.1	20	10	10	16	1-10	48	50	10 @ 55-2000 Hz	1	1 (28)
RF63-26S	9	7	7	6	4	1.6	1.1	20	10	10	16	1-10	47	50	10 @ 55-2000 Hz	1	1 (28)
RF3A-26S	10	8	7	6	5	4	2.5	15	18	18	16	1-10	156	50	10 @ 55-2000 Hz	1	2 (56)

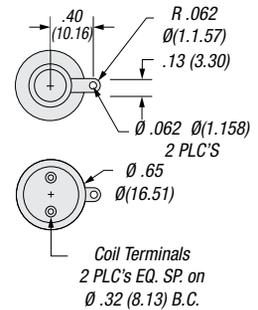
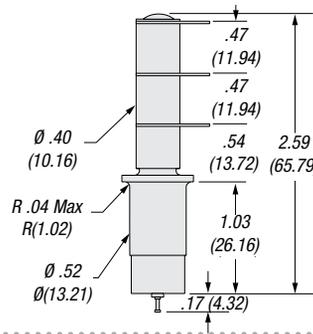
12VDC coil versions available; please contact factory for lead times. For available flange versions, the flange diameter is 1.125".

### RF62-26S

Form: SPDT

Flange Version Available:

RF62D-26S

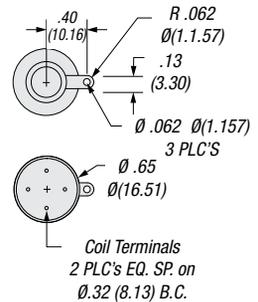
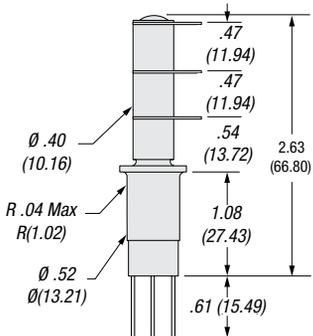


### RF65-12S

Form: SPDT

Flange Version Available:

RF65D-12S

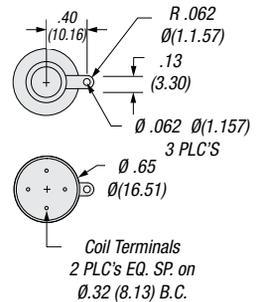
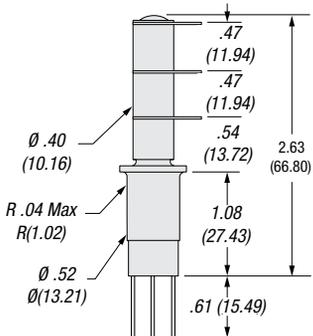


### RF63-26S

Form: Latching

Flange Version Available:

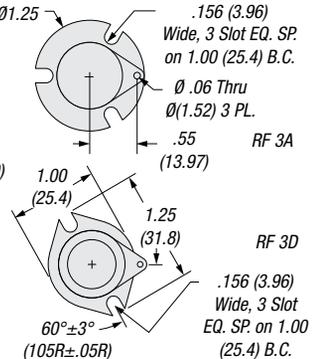
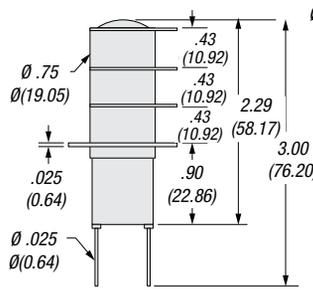
RF63D-26S



### RF3A-26S

Form: SPDT

Equipped with integral flange



# High-Voltage Vacuum and Gas-Filled Relays

## RJ1A, RJ2B and RJ6B Series

RJ1A, RJ2B and RJ6B Series SPDT Vacuum Relays, 10–15kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)			CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MO)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)			OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60 HZ	2.5 MHZ	16 MHZ												
RJ1A-26N696	10	8 18	—	—	2	2.5	10	8	8	16	1–10	335	50	10 @ 55–2000 Hz	2	1 (28)
RJ2B-26S <sup>†</sup> RJ6B-26S <sup>†</sup>	15	12 50	10 30	8 17	6 10	0.5 1.5	12	18	9	16	1–10	270	50	10 @ 55–500 Hz	1 25	3 (85)
RJ6B-26D3136 <sup>†</sup>	15	12 50	10 30	8 17	6 10	1 1.5	12	18	9	16	1–10	270	50	10 @ 55–500 Hz	25	3 (85)

<sup>†</sup> Can be used for hot switch applications.

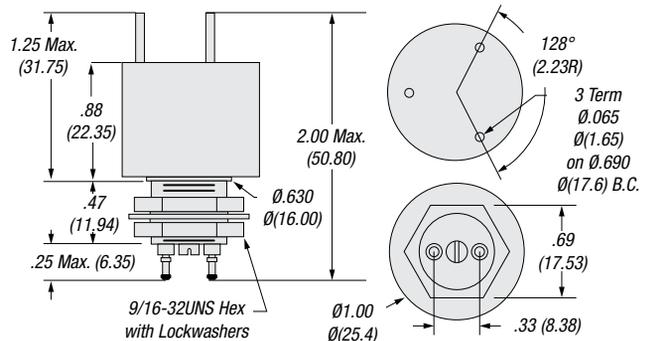
12 or 115VDC coil versions available; please contact factory for lead times.  
For available flange versions, the flange diameter is 1.125".

### RJ1A-26N696

Form: SPDT

Flange Version Available:

None

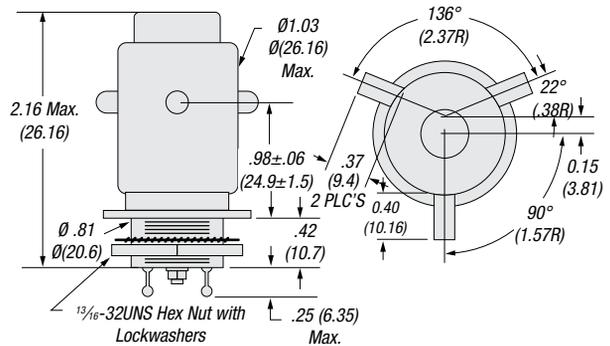


### RJ2B-26S<sup>†</sup>

Form: SPDT

Flange Version Available:

RJ2C-26S

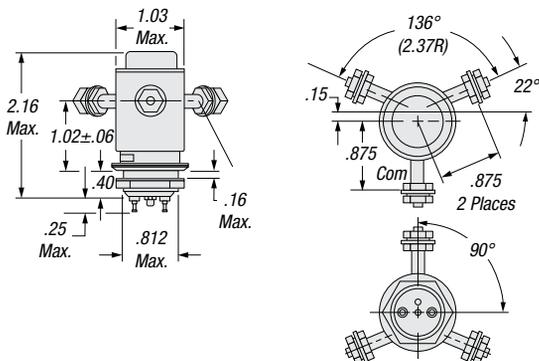


### RJ6B-26S<sup>†</sup>

Form: SPDT

Flange Version Available:

RJ6C-26S



### RJ6B-26D3136<sup>†</sup>

Form: SPDT

Flange Version Available:

RJ6C-26D3136

## High-Voltage Vacuum and Gas-Filled Relays

### RJ4B, RJ4C and RF10B Series

RJ4B, RJ4C and RF10B Series SPDT Vacuum Relays, 18–20kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MΩ)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)															
		DC OR 60 HZ	2.5 MHZ	16 MHZ	32 MHZ	OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
RJ4B-26S <sup>†</sup>	18	15 50	12 30	10 17.5	6 10	0.5	1	12	18	9	14	1–10	270	30	10 @ 55–500 Hz	1	3 (85)
RJ4C-26S <sup>†</sup>	18	15 50	12 30	10 17.5	6 10	0.5	1	12	18	9	14	1–10	270	30	10 @ 55–500 Hz	1	3 (85)
RF10B-26S	20	15 75	13 22	10 15	7.5 12	1.8	1.5	12	30	12	16	1–10	225	30	5 @ 55–500 Hz	0.1	16 (453)

<sup>†</sup> Can be used for hot switch applications.

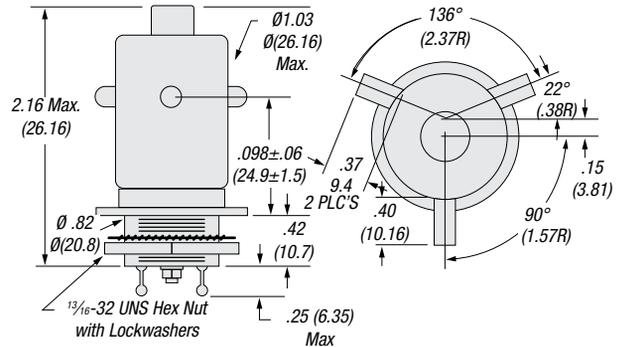
12 or 115VDC coil versions available for models RJ4B-26S and RJ4C-26S; please contact factory for lead times. For available flange versions, the flange diameter is 1.125".

#### RJ4B-26S<sup>†</sup>

Form: SPDT

Flange Version Available:

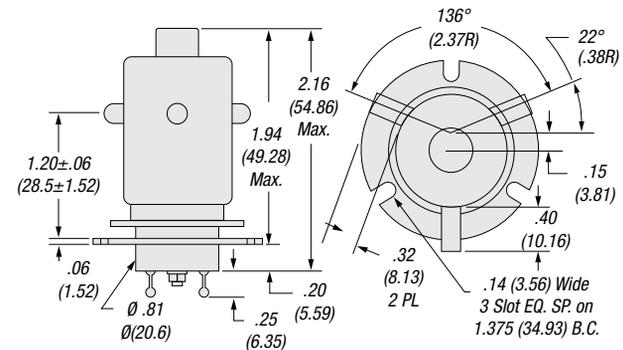
RJ4C-26S



#### RJ4C-26S<sup>†</sup>

Form: Latching

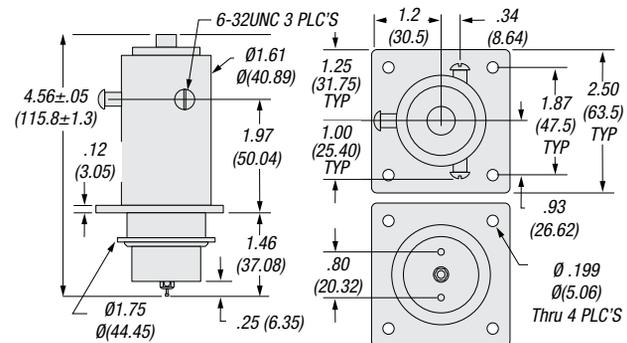
Equipped with integral flange



#### RF10B-26S

Form: SPDT

Equipped with integral flange



# High-Voltage Vacuum and Gas-Filled Relays

## RJ9B and RJ5B Series

RJ9B and RJ5B Series SPDT Vacuum Relays, 20–30kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)				CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MΩ)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE (Ω ±10%)	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10 <sup>6</sup> CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)				OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60 HZ	2.5 MHZ	16 MHZ	32 MHZ												
RJ9B-26S†	20	15 110	13 50	10 20	—	3	3.5	10	30	8	16	1–10	190	50	10 @ 55–500 Hz	1	11 (312)
RJ5B-26S	30	25 10	—	—	—	6	3	50	20	15	18	1–10	167	20	10 @ 55–500 Hz	1	12 (340)

12 or 115VDC coil versions available for model RJ5B-26S; please contact factory for lead times.

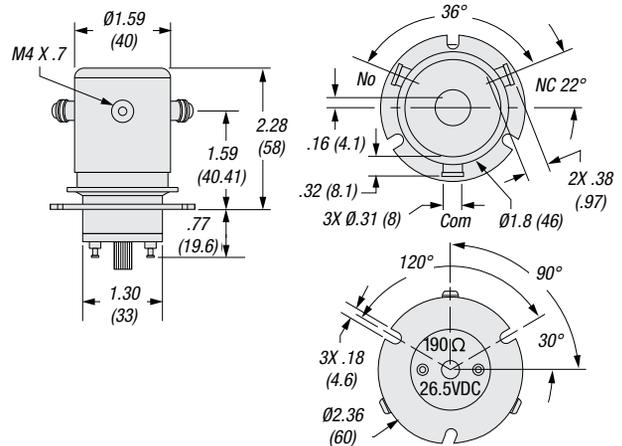
For available flange versions, the flange diameter is 1.125".

† Can be used for hot switch applications.

### RJ9B-26S†

Form: SPDT

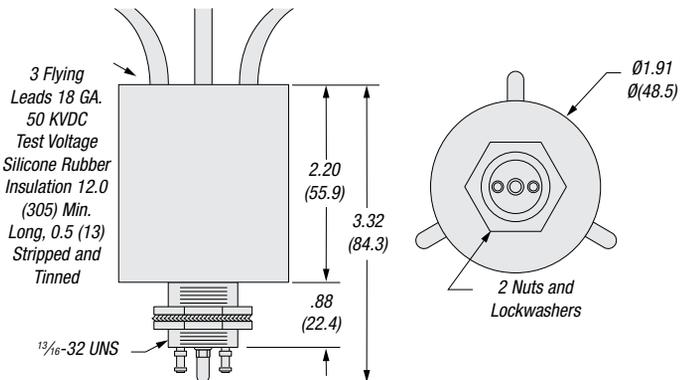
Equipped with integral flange



### RJ5B-26S

Form: SPDT

Flange Version Available:  
None



## High-Voltage Vacuum and Gas-Filled Relays

### RGH5 and RGH3 Series

RGH5 and RGH3 Series Gas-Filled Relays, 50–70kV

CAT. NO.	TEST VOLTAGE (KV PEAK) 60 HZ	RATED OPERATING VOLTAGE (KV PEAK)			CONTACT CAPACITY (PF)		MAX CONTACT RESIST. (MO)	MAX OPERATE TIME (MS)	MAX RELEASE TIME (MS)	PULL-IN VOLTAGE @ 25° C (VDC)	DROP-OUT VOLTAGE @ 25° C (VDC)	COIL RESISTANCE ( $\Omega \pm 10\%$ )	SHOCK, 11MS ½ SINE (PEAK G'S)	VIBRATION PEAK G'S @ FREQ.	MECHANICAL LIFE (10° CYCLES)	WEIGHT, OZ. (GRAMS)
		MAX CONT. CURRENT (AMPS)			OPEN CONTACT TO OPEN CONTACT	OPEN CONTACTS TO GROUND										
		DC OR 60 HZ	2.5 MHZ	16 MHZ												
RGH5-26S*	50	40 10	— —	— —	6	3	500	20	15	18	1–10	167	20	10 @ 55–500 Hz	1	12 (340)
RGH3-24D2524*	70	70 15	— —	— —	1.5	1.5	1000	N/A	15	18	16	24	30	10 @ 55–500 Hz	5	16 (454)

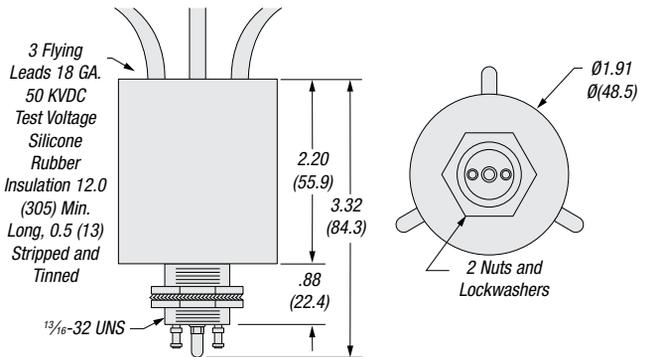
\* Gas-filled relay, make-only load switching applications (CR measured at 28 VDC/1 amp).

#### RGH5-26S\*

Form: SPDT

Flange Version Available:

None

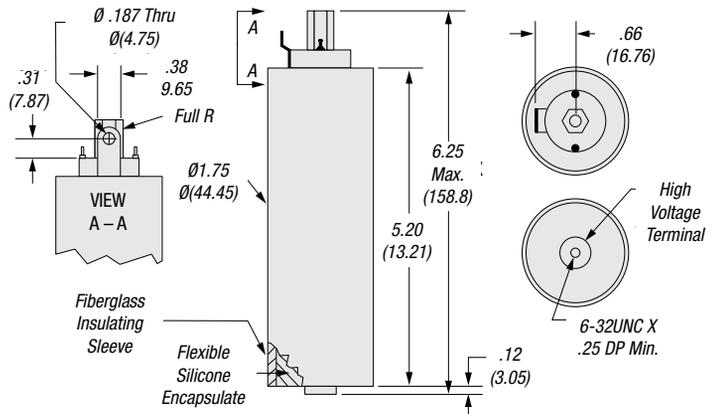


#### RGH3-24D2524\*

Form: SPST N/C

Flange Version Available:

None



# High-Voltage Vacuum Coaxial Relays

## RC21 Series

RC21 Series Vacuum Coaxial Relays, 90kW

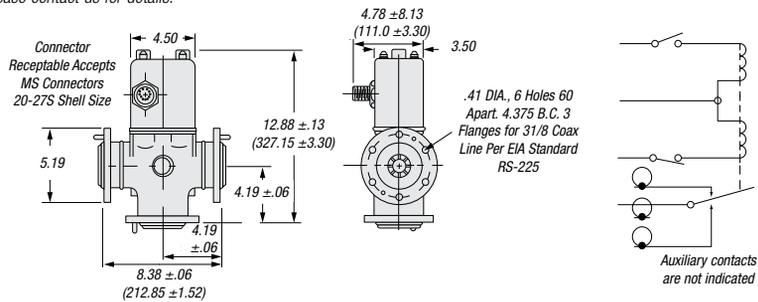
CAT NO.	POWER RATING*	FREQUENCY RANGE	CHARACTERISTIC IMPEDANCE $\Omega$	VSWR	CROSSTALK	INSERTION LOSS	COIL RESISTANCE ( $\Omega$ $\pm 10\%$ )	ACTUATOR COIL CONNECTION	CONTACT CONFIG.	INPUT/OUTPUT LINE SIZE	ACTUATION	ACTUATING VOLTAGE	POSITION INDICATORS	OPERATE. TIME**	WEIGHT, LB. (KG)
RC21A5510F14B	90 kW CW @ 30 MHz 2 MW Peak Spec. Order	0-500 MHz	50	1.15:1 Max. @ 500 MHz	Greater than 60 dB isolation @ 30 MHz	0.01 dB Max.	4.8	MS receptacle	SPDT	3.125"	Permanent magnet latching, electrical or manual	26.5VDC Auto De-energize	DPDT Aux. Contacts and Visual Indicator	50 msecs. Max.	14 (6.35)

\* This power rating is for the frequency at which the relay is most commonly used.

\*\* Faster operating times can be obtained on most units by coil pulse circuits. Please contact us for details.

### RC21

Form: SPDT



## RC26 and RC27 Series

RC26 and RC27 Series Vacuum Coaxial Relays, 90kW

CAT NO.	POWER RATING*	FREQUENCY RANGE	CHARACTERISTIC IMPEDANCE $\Omega$	VSWR	CROSSTALK	INSERTION LOSS	SERVICE LIFE	MAX. OPERATING ALTITUDE	COIL VOLTAGE (V $\pm 10\%$ )	COIL CURRENT	COIL RESISTANCE	COIL CURRENT DURATION	AUX. SWITCH RATING	AMBIENT TEMP. RANGE	MAX. OPERATE TEMP.	PRESSURIZATION	NORM. OPERATE PRESSURE	WEIGHT, LB. (KG)
RC265552G24F	90 kW CW @ 30 MHz 2 MW Peak Spec. Order	0-600 MHz	50	1.1:1 Max. to 400 MHz	Greater than 60 dB isolation @ 30 MHz	0.01 dB Max.	15,000 operating hours min.	35,000 feet	26	5 amps max. per coil	19 $\Omega$ nominal	2 sec. max. 22 msec. min.	5 amps resistive	-55° C to +85° C	+71° C	45 PSIA Dry Air	31 $\pm$ 1.5 PSIA Dry Nitrogen	14 (6.35)
RC275576G24F																		13 (5.9)

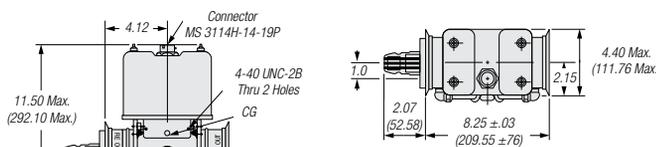
\* This power rating is for the frequency at which the relay is most commonly used.

\*\* Faster operating times can be obtained on most units by coil pulse circuits. Please contact us for details.

### RC26

Switch Assembly

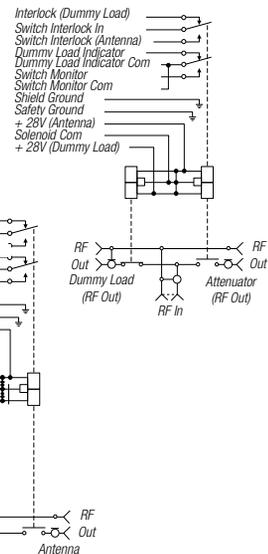
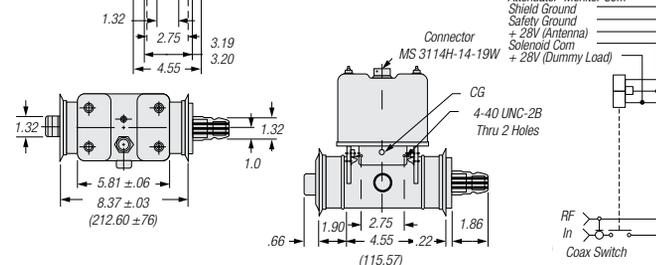
Form: SPDT



### RC27

Attenuator

Form: SPST



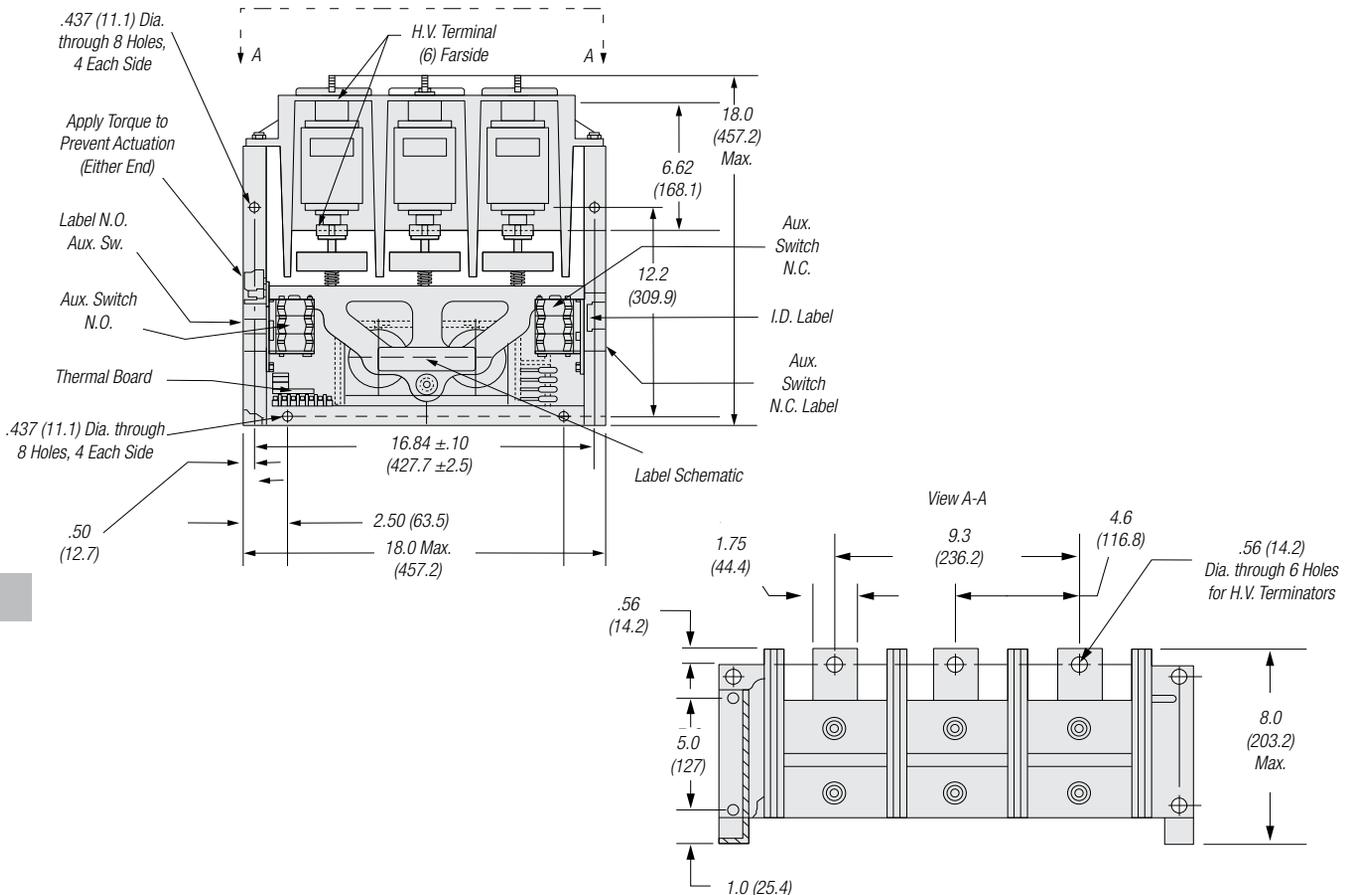
## Vacuum Contactors

# RP173 Three-Phase Vacuum Contactors

Measuring 18"H x 18"W x 8"D and weighing less than 67 lbs., the Jennings RP173 Three-Phase Vacuum Contactor is built tough to work in a variety of heavy-duty applications. Able to withstand the frequent switching required to control furnaces and large motors, this contactor can also be used to switch power transformers and capacitor banks for voltage regulation and power factor correction as a means of reducing operating costs. It is ideal for use in motor controllers that operate production and processing equipment, mining and petroleum equipment, earth movers and conveyors, power shovels and all types of industrial loads. Using a trio of vacuum interrupters, the three-phase unit provides a short contact-to-contact gap required to interrupt the circuit for highly reliable operation. The contact materials are rated for 7.2kV, 600-amp load life and 6000-amp fault current.

### Features

- Sealed main contacts provide a minimum of 1 million maintenance-free open and close operations
- Reliable operation in harsh temperature extremes ranging from -20° C to 70° C
- Versatility for use with heavy-duty motors, power equipment and motor controllers



# Vacuum Contactors

## Voltage Ratings

Maximum Three-Phase Line (kV)	1.5, 2.5, 5.0, 7.2
Dielectrics 50/60/400 Hz, 60-Second Withstand	
— Line-to-Ground (kV RMS)	30
— Line-to-Line (kV RMS)	30
— Across Open Contacts (kV RMS)	30
BL, 1.2 x 50 $\mu$ sec Impulse	
— Line-to-Ground Peak (kV)	20
— Line-to-Line Peak (kV)	20

## Current Rating

Continuous (Amps RMS)	450/600
Load-Switching (Amps RMS)	450
— Capacitors (grounded neutral)	2000kVAR @ 4.16kV
— Motors	5000 HP @ 7.2kV
— Transformers	5000kVA @ 7.2kV
Making Current (Random Make)	
— 100 Times @ 7.2kV with 3-Second Backup (kA RMS)	4.5
— 10 Times @ 7.2kV with Current-Limiting Fuse (kA)	55 peak
— 100 Times @ 5.0kV with 3-Second Backup (kA RMS)	6
Minimum Load Life @ 600-amps RMS	1 million open/close operations
Interrupt (Amps RMS @ 5.0kV)	6000

## Actuator

Control Voltage	
— RP173-2310-XX	115VAC, 50/60 Hz or 110VDC
— RP173-2311-XX	230VAC, 50/60 Hz or 220VDC
Control Current	3.3 pull-in amps, 0.5 hold-in amp
Auxiliary Contacts Configuration	2 N/C, 3 N/O, SPST double break, 10 amps resistive @ 600VAC

## Mechanical

Weight (lb.)	67 max.
Release Time (msec.) from Control Switch	100 max.
Off to Separation of Main Contacts	
Mounting	Operates in any position

## RP173 Three-Phase Vacuum Contactors

CAT. NO.	MOUNTING OPTION	ACTUATOR VOLTS	LINE-TO-LINE VOLTAGE (RMS)
RP173-2310-00	Standard	115VAC/110VDC	7200
RP173-2310-01*	Standard	115VAC/110VDC	7200
RP173-2311-00	Standard	230VAC/220VDC	7200
RP173-2311-01†	Standard	230VAC/220VDC	7200
RP173-2314-00	View A-A 180°	115VAC/110VDC	7200
RP173-2315-00**	View A-A 180°	115VAC/110VDC	7200

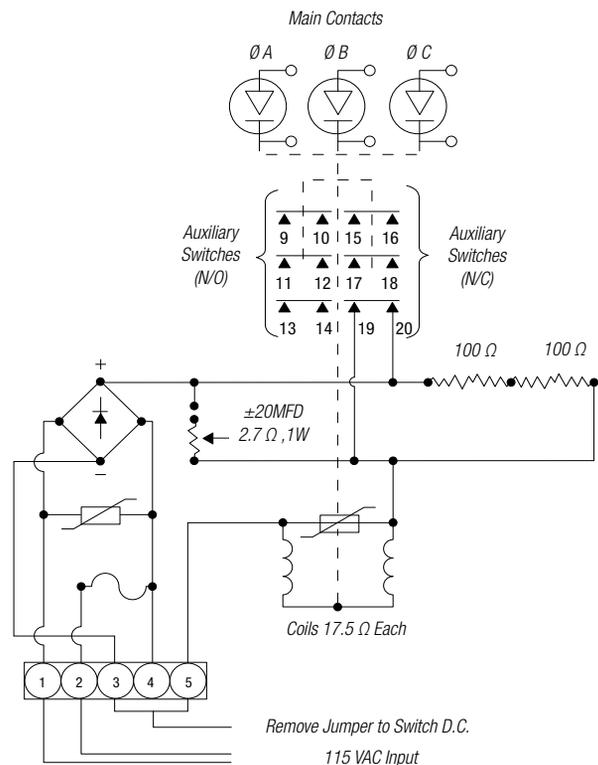
\* Includes ruggedized frame.

† Includes contact-wear indicator line.

\*\* Modified for slower release time.



Units Shown in De-Energized Position RP173-2310-XX Shown.



Power & High Voltage — Jennings® Vacuum Devices

## Vacuum Contactors

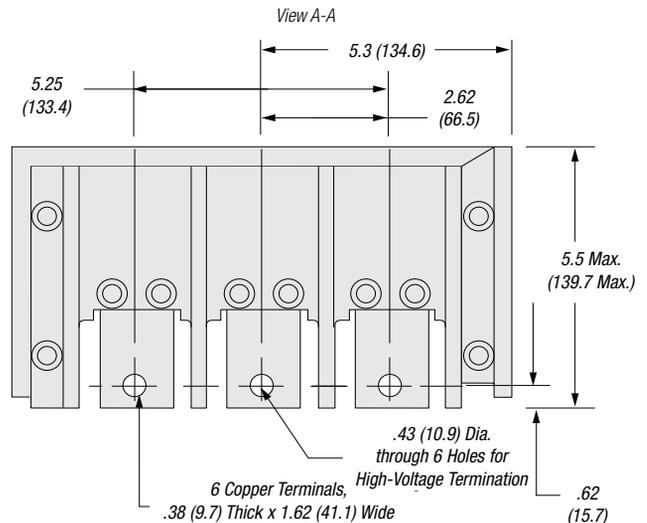
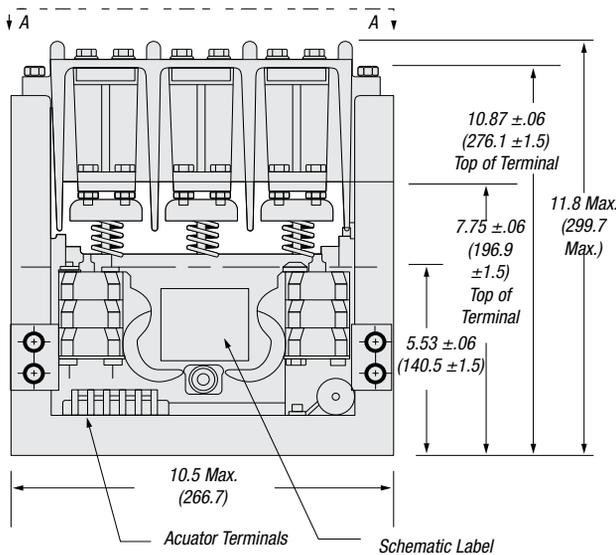
# RP133 Three-Phase Vacuum Contactors

The Jennings RP133 Vacuum Contactor may be small — only 11.8"H x 10.5"W x 5.5"D — and weigh less than 30 pounds, but it can take on requirements of the most demanding equipment. Using a trio of vacuum interrupters, the three-phase unit provides a short contact-to-contact gap required to interrupt the circuit for highly reliable operation. The contact materials are rated for 1.5kV, 450-amp load life and 4500-amp fault current.

Designed to withstand the frequent switching required to control furnaces and large air conditioning motors, the RP133 is commonly used to protect power transformers and DC power supplies. Use it to switch capacitor banks for voltage regulation and power factor correction as a means of reducing operating costs. Reliable and durable, the RP133 can also be used in motor controllers that operate production and processing equipment, mining and construction equipment, earth movers or carriers, power shovels, rock crushers and conveyors.

### Features

- Sealed main contacts provide a minimum of 1 million maintenance-free open and close operations
- Reliable operation in harsh temperature extremes ranging from -20° C to 70° C
- Versatility for use with heavy-duty motors, power equipment and motor controllers



# Vacuum Contactors

## Voltage Ratings

Maximum Three-Phase Line (V & kV)	600 and 1.5
Dielectrics 50/60/400 Hz, 60-Second Withstand	
— Line-to-Ground (kV RMS)	6.5
— Line-to-Line (kV RMS)	6.5
— Across Open Contacts (kV RMS)	6.5
BIL, 1.2 x 50 $\mu$ sec Impulse	
— Line-to-Ground Peak (kV)	20
— Line-to-Line Peak (kV)	20
— Across Open Contacts (kV)	20

## Current Rating

Continuous (Amps RMS)	450
Load-Switching (Amps RMS)	450
— Capacitors	750KVAR @ 1.5kV
— Motors	750 HP @ 1.1kV
Making Current (Random Make)	
— 100 Times @ 1.5kV with 3-Second Backup (kA RMS)	4.5
— 10 Times @ 1.5kV with Current-Limiting Fuse (kA)	28 peak
— 100 Times @ 1.5kV with 3-Second Backup (kA RMS)	6
Minimum Load Life @ 450 amps RMS	1 million open/close operations
Interrupt (Amps RMS @ 1.5kV)	4500

## Actuator

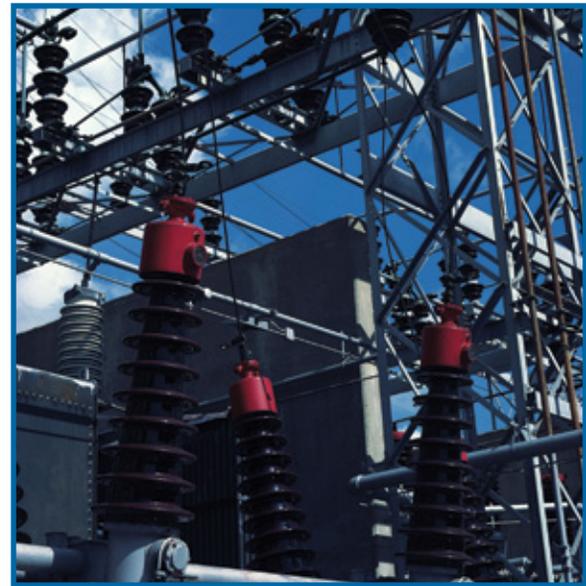
Control Voltage	115VAC, 50/60 Hz or 110VDC
Control Current	7.1 pull-in amps, 0.9 hold-in amps
Auxiliary Contacts Configuration	2 N/C, 3 N/O, SPST double break, 10 amps resistive @ 600VAC

## Mechanical

Weight (lb.)	30 max.
Release Time (msec.) from Control Switch Off to Separation of Main Contacts	16 max.
Mounting	Operates in any position

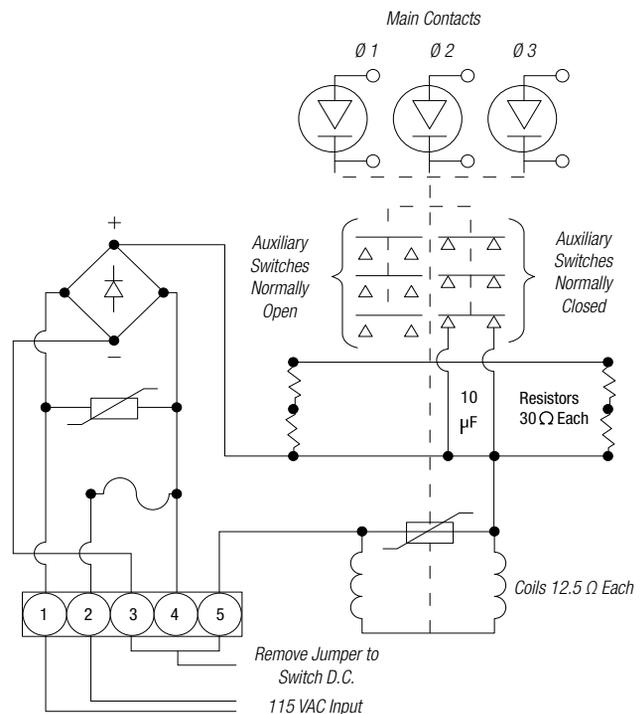
## RP133 Three-Phase Vacuum Contactors

CAT. NO.	MOUNTING OPTION	ACTUATOR VOLTS	LINE-TO-LINE VOLTAGE (RMS)
RP133-2332-00	2332	115VAC/110VDC	1500
RP133-2332-01	2332	115VAC/110VDC	3300
RP133-2334-00	2334	100VDC	1500
RP133-2335-00	2335	115VAC/110VDC	1500



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Units Shown in De-Energized Position



## Vacuum Contactors

# RP151B Three-Phase Vacuum Contactors

The Jennings RP151B Three-Phase Vacuum Contactor is a compact, normally open, three-phase device for use in equipment that requires a high-speed interrupt. It is useful as an overload interrupter to 2000 amps RMS interrupting capacity. Special erosion-resistant contacts provide an operational load life of 250,000 maintenance-free operations at the rated 200-amp current.

### Features

- Erosion-resistant contacts provide a minimum of 250,000 operations for long, maintenance-free life
- 2000 amps RMS interrupting capacity — ideal for use in an overload interrupter
- Three-phase, normally open operation provides high-speed interrupt

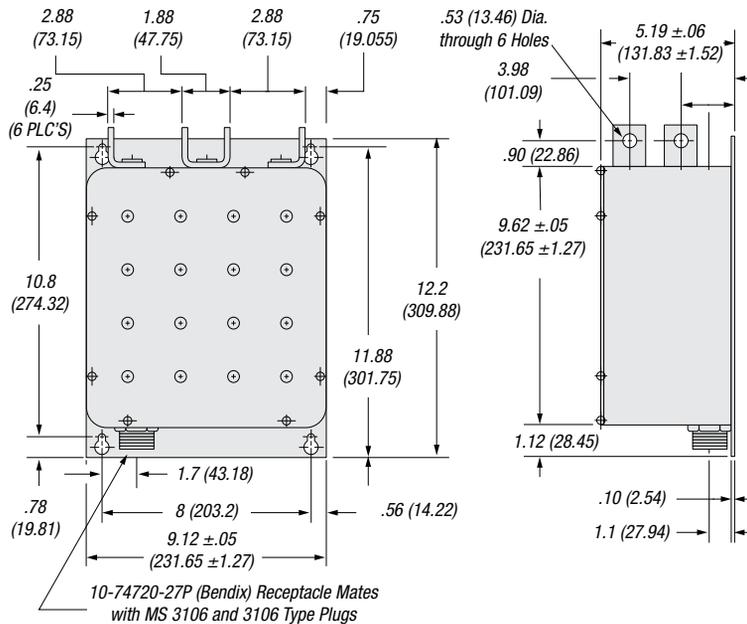


Mechanically shock-hardened version available as shown

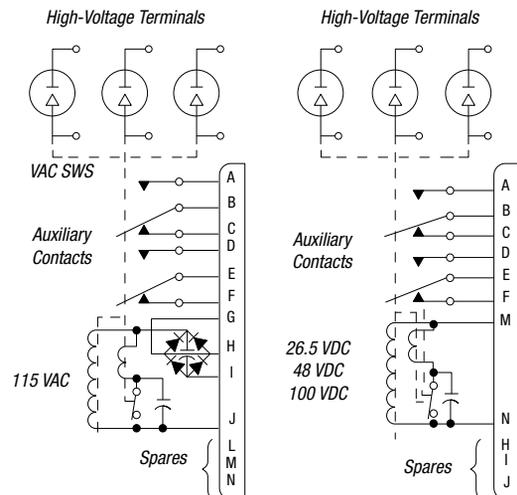
Voltage Ratings	
50/60/400 Hz (V)	600
Current Rating	
Continuous (Amps RMS)	200
Maximum Interrupting Current (Amps)	2000
Minimum Load Life	250,000 operations
Interrupt	Less than 2 cycles
Auxiliary Contacts Configuration	DPDT, 115/230VAC, 8 Amps

### RP151B Three-Phase Vacuum Contactors

CAT. NO.	MOUNTING OPTION	VOLTAGE	PULL-IN CURRENT (AMPS)	HOLD CURRENT (AMPS)
RP151B4541X44R20	4541	26.5VDC	4.0	0.40
RP151B4541X46R20	4541	100VDC	1.5	0.05
RP151B4541X47R20	4541	115VAC	1.5	0.05
RP151B4541X4XR20	4541	50VDC	2.1	0.17
RP151B4548X46R20	4548	100VDC	1.5	0.05



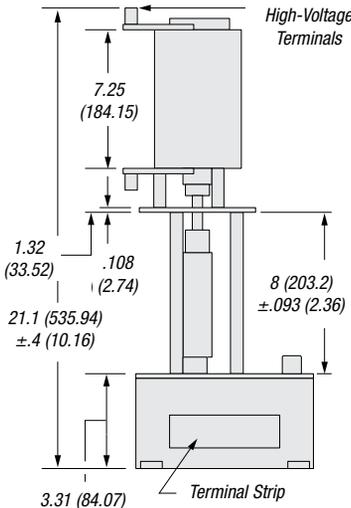
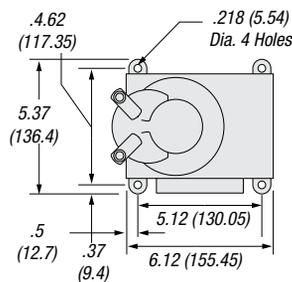
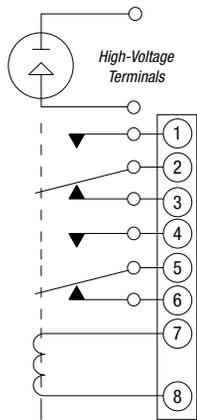
Units Shown in De-Energized Position



## Vacuum Contactors

# RP101F, RP901K and RP900K SPST High-Voltage AC/DC Contactors

These contactors feature a vacuum interrupter and an actuator linked together by an insulated actuating rod. The contactors provide all of the operating advantages of vacuum interrupting plus the benefits of a matching actuator-solenoid motor. They offer a minimum of 100,000 operations and are ideal for use in high-power broadcast transmitters.



RP900K

VOLTAGE RATINGS	RP101F	RP901K	RP900K
Test Voltage (kV Peak)	50	70	70
Rated Voltage (kV Peak)*	30	50	50

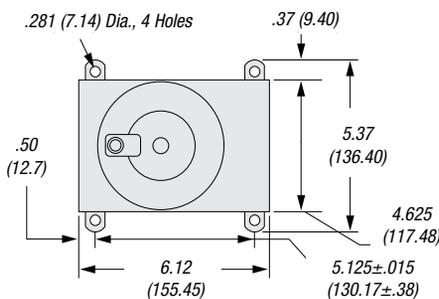
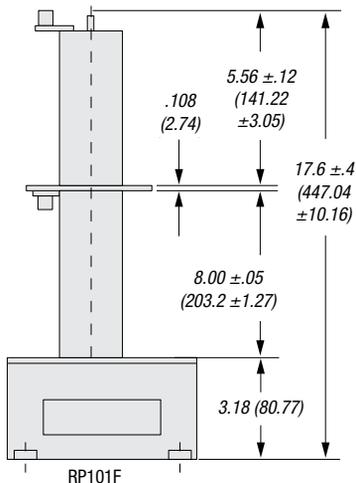
Current Rating	RP101F	RP901K	RP900K
Continuous (Amps RMS)	100 DC	200 DC	200 RMS
Maximum Interrupting Current (Amps)	—	—	4000
Maximum Interrupt DC Power (kW)	500 (10 amps max.)	500 (10 amps max.)	—

Specifications	RP101F	RP901K	RP900K
Capacitor Discharge Decaying to 0 in 200µs (kA)	50	100	100
Contact Resistance (Micro Ohms)	200	500	200
Contact Capacity (pF)	4.5	5.5	5.5
Contact Inductance (nH)	32	45	45
Mechanical Life (operations)	100,000	100,000	100,000
Auxiliary Contacts	DPDT	DPDT	DPDT
Auxiliary Contact (Volts AC RMS)	230	230	230
Auxiliary Contact Current (Amps RMS)	15	15	15

\* Derate to 15.5kV RMS for 50/60 Hz Cycle Power.

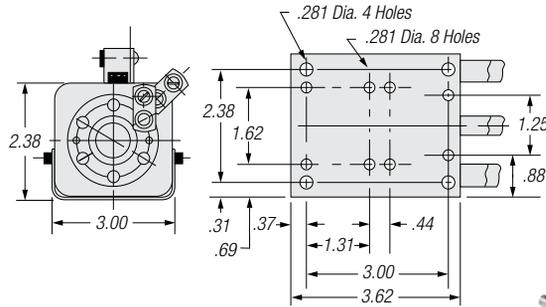
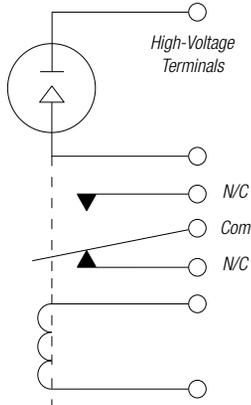
### RP101F, RP901K and RP900K SPST High-Voltage AC/DC Contactors

CAT. NO.	CONTACT ARRANGEMENT	INSULATOR LENGTH	ACTUATOR (VOLTS)	PULL-IN CURRENT (AMPS)	HOLD CURRENT (AMPS)	HOLD POWER (WATTS)	TIME TO CLOSE (MSEC)	BREAK TIME (MSEC)
RP101F4903D21B20	N/O	6	115VAC	5.20 RMS	0.54 RMS	18.0	46	26
RP101F4304D26B20	N/C	6	100VDC	15.00 DC	0.07 DC	7.0	36	30
RP101F4903A21B20	N/O	2	115VAC	5.20 RMS	0.54 RMS	18.0	46	26
RP101F4903D2KB20	N/O	6	110VAC/50 Hz	3.00 RMS	0.30 RMS	17.0	46	26
RP901K4903D21B30	N/O	6	115VAC/60 Hz	5.20 RMS	0.54 RMS	18.0	60	50
RP900K4903D21B30	N/O	6	115VAC	5.20 RMS	0.54 RMS	18.0	25	46
RP900K4904D21B30	N/C	6	115VAC	5.20 RMS	0.54 RMS	18.0	40	70
RP900K4903D2LB30	N/C	6	220VAC/50 Hz	2.50 RMS	0.35 RMS	12.0	40	70
RP900K4601D26B3C	N/O	6	100VDC	3.75 DC	0.14 DC	14.3	18	7
RP900K4602D26B30	N/C	6	100VDC	3.75 DC	0.20 DC	20.0	23	14
RP900K4315E26B30	N/O	8	100VDC	1.50 DC	0.07 DC	7.0	80	10
RP900K4665XX6B30	N/C	NA	100VDC	3.75 DC	0.20 DC	20.0	40	12
RP900K4667DX6B30	N/O	6	100VDC	5.20 DC	0.14 DC	15.9	18	7
RP900K4803D25B30	N/O	6	48VDC	2.00 DC	0.14 DC	7.0	40	100
RP900K4803D26B30	N/O	6	100VDC	1.60 DC	0.07 DC	7.0	40	100
RP900K4903C2KB20	N/C	4	115VAC/50 Hz	5.10 RMS	0.70 RMS	19.0	26	46



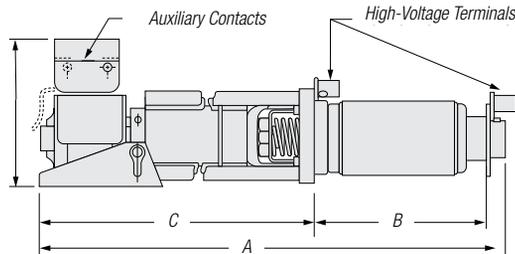
## Vacuum Contactors

# RT1G and RT8A SPST High-Voltage Vacuum Contactors



### Type SPST (N/O and N/C)

TYPICAL MODEL	RT1G	RT8A
Insulation	4" – 55 kV	6" – 75 kV
Dimension A ± 0.19	13.53	18.91
Dimension B ± 0.13	5.00	8.38
Dimension C ± 0.06	8.03	10.03

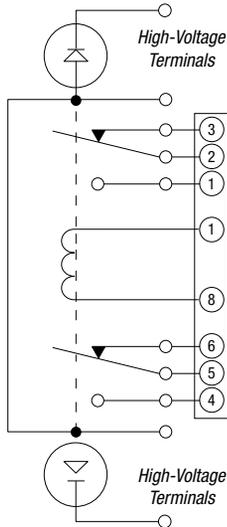


### RT1G and RT8A SPST High-Voltage Vacuum Contactors

CAT NO.	CONTACT ARRANGEMENT	OPERATING VOLTAGE (KV PEAK)	CONTINUOUS CURRENT (AMPS)	MAX. INTERRUPT		CAPACITOR DISCHARGE 0 IN 200 μSEC. (AMPS)	MAX. CONTACT RESISTANCE (MΩ)	APPROX. CONTACT CAPACITY (PF)
				AC CURRENT (AMPS RMS)	DC POWER (KW)			
RT1G4202C21A10	N/C	20	100	500	100	1000	3.00	3.5
RT1G4201C22A10	N/O	20	100	500	100	1000	0.01	3.5
RT8A4201D22A10	N/O	40	100	2000	100	3000	0.30	2.5
RT8A4202D22A10	N/C	40	100	2000	100	3000	0.30	2.5
RT1G4401E21B10*	SPDT	20	100	500	100	1000	3.00	3.5
RT8A4401D21B10*	SPDT	40	100	1000	100	3000	0.30	2.5

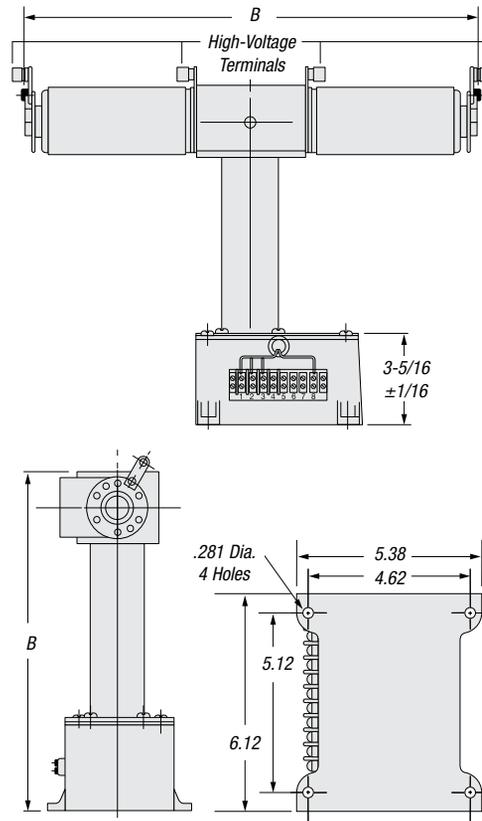
\* To order latching models, change 4401 to 4402 in Catalog Number.

# Vacuum Contactors



## Type SPDT

TYPICAL MODEL	RT1G	RT8A
Insulation	6" - 80kV	6" - 80kV
Dimension A ± 0.4	14.8	14.8
Dimension B ± 0.5	16.2	23.0



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ACTUATOR VOLTAGE AT 50/60 HZ (VAC)	PULL-IN CURRENT (AMPS)	HOLD CURRENT (AMPS)	HOLD POWER (WATTS)	TIME TO CLOSE (MSEC)	BREAK TIME (MSEC)	MECH. LIFE (OPERATIONS)	WEIGHT (LBS.)	AUXILIARY CONTACTS NO. & TYPE	AUXILIARY CONTACT VOLTAGE (VAC RMS)	AUXILIARY CONTACT CURRENT (AMPS RMS)
115	2.5	0.5	17	60	25/30	100,000	2	1 SPDT	115	15
230	1.2	0.2	17	60	25/30	100,000	2	1 SPDT	230	15
230	1.2	0.2	17	60	25/30	100,000	4	1 SPDT	230	15
230	1.2	0.2	17	60	25/30	100,000	4	1 SPDT	230	15
115	2.5	0.5	17	60	25	100,000	8	2 SPDT	115	15
115	2.5	0.5	17	90	90	100,000	10	2 SPDT	115	15

## Vacuum Contactors

# High-Voltage Vacuum RF Contactors

### Jennings High Voltage Vacuum RF Contactors

#### RF Switching

The use of a vacuum as a contact environment provides increased operating reliability and ensures long life. Low contact resistance is maintained even when high current causes overheating or arcing occurs.

The high dielectric strength of a vacuum and its very fast recovery after arcing are features that manifest themselves in the small size of the vacuum contactor. Only slight contact separation is required to withstand high voltages. The limited contact movement results in a small contactor size. This reduction in overall size makes available RF switchgear with low inductance and low capacitance.

#### Applications

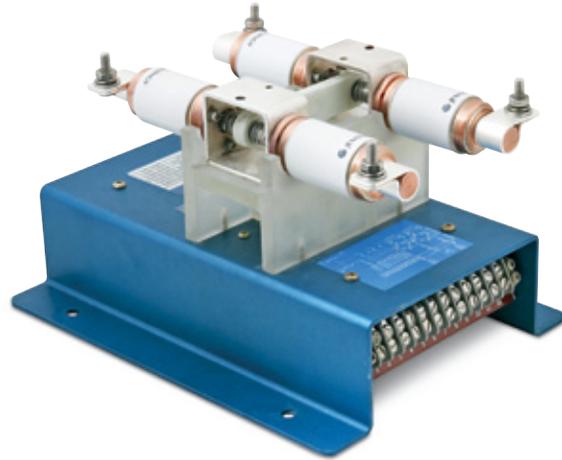
Vacuum contactors are commonly used in the MF and RF bands to handle currents ranging from 20 to several hundred amps. Typical applications include band switching of transmitters, switching filter sections and antenna multicoupler, antenna reflector switching, tap changing of RF coils used in induction and dielectric heating RF generators and switching of transmission lines.



## Vacuum Contactors

### RT22-4070-A317B and RT22-4070-A31NB

RT22-4070-A317B and RT22-4070-A31NB are vacuum contactors with DPDT contact arrangements. These units can also be used as SPDT contactors by wiring the contacts in parallel. These contactors are commonly used in antenna switching for high-power RF circuits, such as those encountered in transmitters.



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<b>Voltage Ratings</b>	<b>RT22-4070-A317B</b>	<b>RT22-4070-A31NB</b>
Rated Voltage (kV Peak) @ 2 MHz	22	22
Operating Voltage (VACR RMS) @ 50/60 Hz	115	230
<b>Current Rating</b>		
Continuous (Amps RMS) @ 2 MHz	40	40
Max. Contact Resistance (MΩ) @ Rated Continuous Current	500	500
Max. Capacitance Across Open Contacts (pF)	2.5	2.5
Max. Capacitance Contacts to Frame (pF)	1.0	1.0
<b>Specifications</b>		
Max. Opening Time (msec.)	300	300
Max. Closing Time (msec.)	300	300
Actuator Type	Latching	Latching
Actuator Voltage (VACR)	115	230
Max. Pull-In Current (Amps)	0.4	0.3
Dielectric Withstand to Frame (V) @ 60 Hz RMS for 1.0 min.	1250	1250
Max. Weight (lbs.)	12	12
Mechanical Life (operations)	250,000	250,000
Auxiliary Contact Rating @ 115/230VAC RMS (Amps)	15	15

## Vacuum Contactors

### RT22-4070-A317B and RT22-4070-A31NB (continued)

Power & High Voltage — Jennings® Vacuum Devices

