

SCR CLAMPS

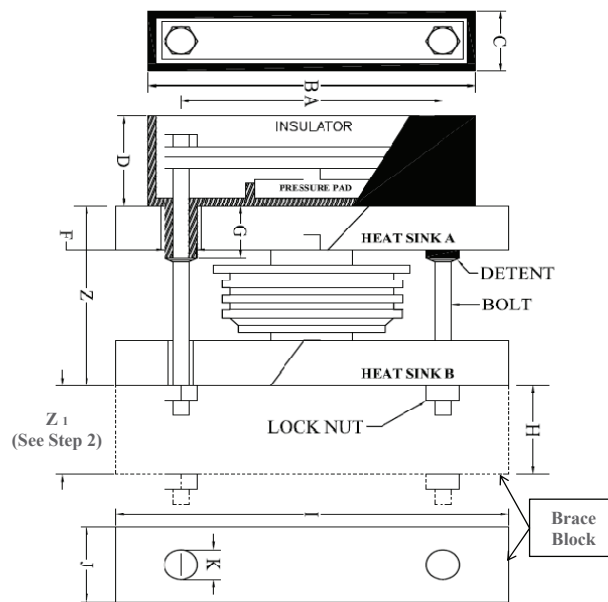
Step 1: Determine the clamp series by clamp load and SCR component size and then click profile picture.

Product ID	Clamp Load		Typical SCR Device Size (mm)	Max Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Profile Image
	(lbs)	(kg)		(in)	(mm)	(in)	(mm)		
VE1000	700 - 1200	318 - 544	23	1.725	43.8	2.125	54.0	1/4" - 20	click here
VE2000	1400 - 2400	635 - 1089	23	1.725	43.8	2.125	54.0	1/4" - 20	click here
VE1272	1100 - 1600	499 - 726	23,33	2.350	59.7	2.750	69.9	1/4" - 20	click here
VE2270	1800 - 2700	816 - 1225	23,33	2.350	59.7	2.750	69.9	1/4" - 20	click here
VE2500	1400 - 2400	635 - 1089	33,38	2.575	65.4	3.100	78.7	3/8" - 24	click here
VE3000	1800 - 3400	816 - 1542	33,38	2.575	65.4	3.100	78.7	3/8" - 24	click here
VE3500	3000 - 4200	1361 - 1905	33,38	3.450	87.6	4.000	101.6	3/8" - 24	click here
VE5500	4600 - 6400	2087 - 2903	33,38,50	3.450	87.6	4.000	101.6	3/8" - 24	click here
VE3501	3000 - 4200	1361 - 1905	33,38	3.450	87.6	4.000	101.6	3/8" - 24	click here
VE5501	4600 - 6400	2087 - 2903	33,38,50	3.450	87.6	4.000	101.6	3/8" - 24	click here
VE3510	3000 - 4200	1361 - 1905	33,38	3.450	87.6	4.000	101.6	3/8" - 24	click here
VE5510	4600 - 6400	2087 - 2903	33,38,50	3.450	87.6	4.000	101.6	3/8" - 24	click here
VE6500	5000 - 6800	2268 - 3085	50,67	4.100	104.1	4.625	117.5	3/8" - 24	click here
VE7500	6700 - 7800	3040 - 3538	50,67	4.100	104.1	4.625	117.5	3/8" - 24	click here
VE6501	5000 - 6800	2268 - 3085	50,67	4.100	104.1	4.625	117.5	3/8" - 24	click here
VE7501	6700 - 7800	3040 - 3538	50,67	4.100	104.1	4.625	117.5	3/8" - 24	click here
VE6510	5000 - 6800	2268 - 3085	50,67	4.100	104.1	4.625	117.5	3/8" - 24	click here
VE7510	6700 - 7800	3040 - 3538	50,67	4.100	104.1	4.625	117.5	3/8" - 24	click here
VE9546	9000 - 11000	4082 - 4990	67	3.975	101.0	4.625	117.5	1/2" - 13	click here
VE9555	9000 - 11000	4082 - 4990	67,77	4.850	123.2	5.500	139.7	1/2" - 13	click here
VE1875	19000 - 21000	8618 - 9525	100	6.500	165.1	7.500	190.5	5/8" - 11	click here

TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	2.115	2.135	53.72	54.23
B	2.935	2.965	74.54	75.31
C	0.880	0.860	22.35	21.84
D	0.825	0.855	20.95	21.72
E	-	-	-	-
F	0.469	0.480	11.68	12.19
G	0.730	0.770	18.54	19.56
H	0.735	0.765	18.66	19.43
I	2.710	2.790	68.83	70.87
J	0.735	0.765	18.66	19.43
K	0.275	0.281	6.99	7.14

OUTLINE DRAWING



Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.375" (9.5mm) thick, in order to withstand the full 1200 lbs (544 Kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A (in)	A (mm)	H (in)	H (mm)	I (in)	I (mm)	J (in)	J (mm)	K (in)	K (mm)	Type	Material	Finish
1	2.125	54.0	0.750	19.1	2.750	69.9	0.750	19.1	0.281	7.1	Thru hole	Aluminum	Iridite
10	2.125	54.0	0.500	12.7	2.875	73.0	0.750	19.1	1/4 - 20	---	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension column to determine the correct bolt length

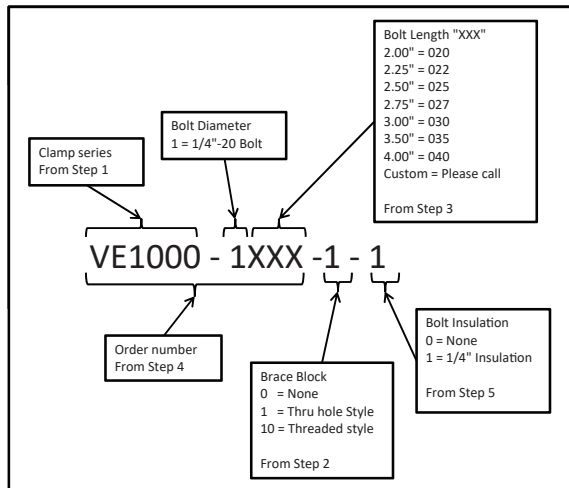
Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)	MAX.	(mm)	MAX.	(in)	(mm)	
VE1000	700 - 900 1000 - 1200	318 - 408 454 - 544	3° 4°	23	1.725	43.8	2.125	54.0	1/4" - 20	0.800	1.175	20.32	29.85	2.00	50.80	VE1000-1020
										0.900	1.425	22.86	36.20	2.25	57.15	VE1000-1022
										1.150	1.675	29.21	42.55	2.50	63.50	VE1000-1025
										1.250	1.925	31.75	48.90	2.75	69.85	VE1000-1027
										1.500	2.175	38.10	55.25	3.00	76.20	VE1000-1030
										2.000	2.675	50.80	67.95	3.50	88.90	VE1000-1035
										2.500	3.175	63.50	80.65	4.00	101.60	VE1000-1040

Step 5: Do you need Bolt insulation?

No = 0 and yes = 1

Step 6: Place your part number in this format.

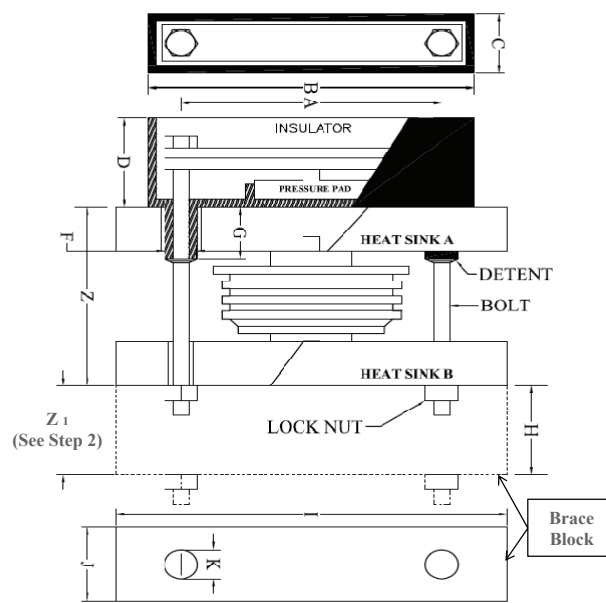


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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	2.115	2.135	53.72	54.23
B	2.935	2.965	74.54	75.31
C	0.880	0.860	22.35	21.84
D	0.825	0.855	20.95	21.72
E	-	-	-	-
F	0.469	0.480	11.68	12.19
G	0.730	0.770	18.54	19.56
H	0.735	0.765	18.66	19.43
I	2.710	2.790	68.83	70.87
J	0.735	0.765	18.66	19.43
K	0.275	0.281	6.99	7.14

OUTLINE DRAWING



Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.375" (9.5mm) thick, in order to withstand the full 2400 lbs (1089 Kg) clamp load.
If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A		H		I		J		K		Type	Material	Finish
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1	2.125	54.0	0.750	19.1	2.750	69.9	0.750	19.1	0.281	7.1	Thru hole	Aluminum	Iridite
10	2.125	54.0	0.500	12.7	2.875	73.0	0.750	19.1	1/4 - 20	---	Threaded	Steel	Zinc/clear

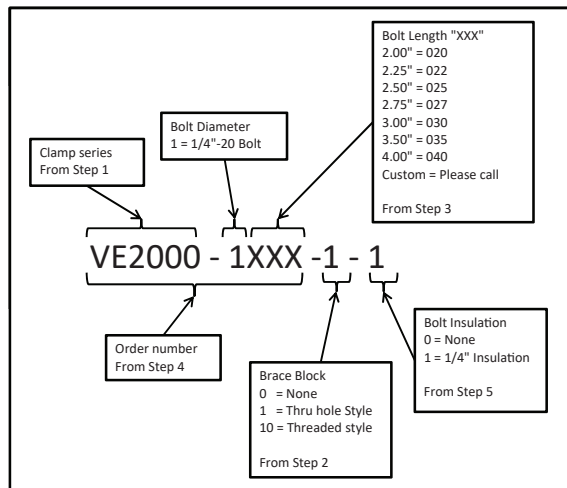
Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below.
Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2)
then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE2000	1400 - 1800 2000 - 2400	635 - 816 907 - 1089	3° 4°	23	1.725	43.8	2.125	54.0	1/4" - 20	0.650	1.020	16.51	25.91	2.00	50.80	VE2000-1020
										0.900	1.270	22.86	32.26	2.25	57.15	VE2000-1022
										1.150	1.520	29.21	38.61	2.50	63.50	VE2000-1025
										1.400	1.770	35.56	44.96	2.75	69.85	VE2000-1027
										1.650	2.020	41.91	51.31	3.00	76.20	VE2000-1030
										2.150	2.520	54.61	64.01	3.50	88.90	VE2000-1035
										2.650	3.050	67.31	77.47	4.00	101.60	VE2000-1040

Step 5: Do you need Bolt insulation?
No = 0 and yes = 1

Step 6: Place your part number in this format.

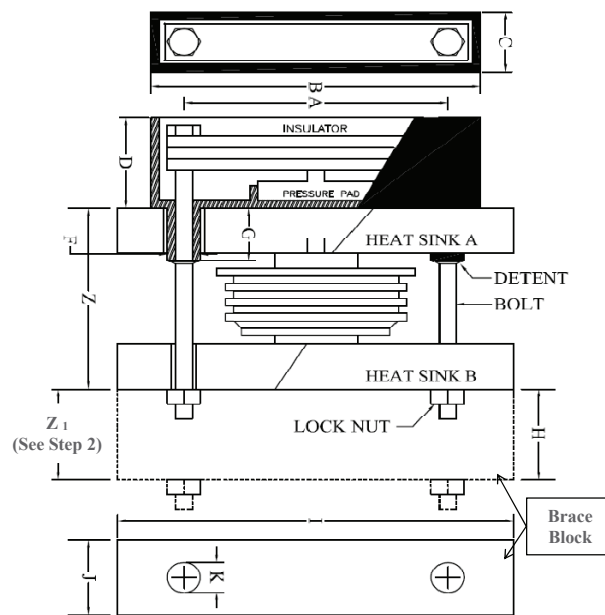


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TABLE 1 DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	2.745	2.800	69.72	71.12
B	3.925	3.935	99.70	99.95
C	0.995	1.005	25.27	25.53
D	1.115	1.125	28.32	28.58
E	—	—	—	—
F	0.395	0.495	10.03	12.57
G	0.845	0.855	21.46	21.72
H	1.000	1.005	25.40	25.53
I	3.500	3.505	88.90	89.03
J	1.000	1.005	25.40	25.53
K	0.408	0.438	10.36	11.13

OUTLINE DRAWING



Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.375" (9.5mm) thick, in order to withstand the full 1600 lbs (726 Kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A		H		I		J		K		Type	Material	Finish
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
2	2.750	69.9	1.000	25.4	3.500	88.9	1.000	25.4	0.296	7.5	Thru hole	Aluminum	Iridite
8	2.750	69.9	0.500	12.7	3.500	88.9	1.000	25.4	1/4 - 20	1/4 - 20	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

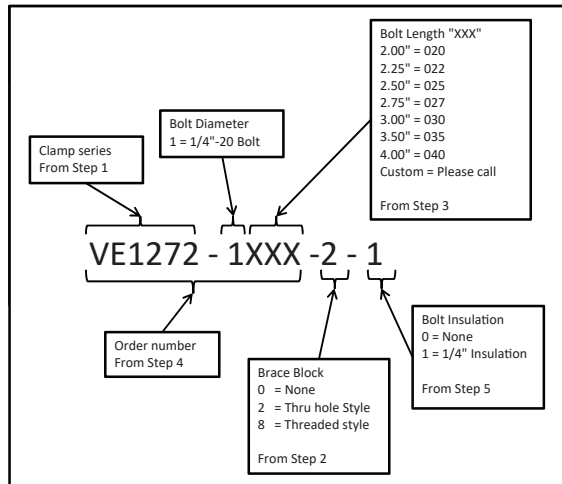
Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE1272	1100 - 1300 1400 - 1600	499 - 590 635 - 726	3° 4°	23.33	2.350	59.7	2.750	69.9	1/4" - 20	0.650	1.020	16.51	25.91	2.00	50.80	VE1272-1020
										0.900	1.270	22.86	32.26	2.25	57.15	VE1272-1022
										1.150	1.520	29.21	38.61	2.50	63.50	VE1272-1025
										1.400	1.770	35.56	44.96	2.75	69.85	VE1272-1027
										1.650	2.020	41.91	51.31	3.00	76.20	VE1272-1030
										2.150	2.520	54.61	64.01	3.50	88.90	VE1272-1035
										2.650	3.050	67.31	77.47	4.00	101.60	VE1272-1040

Step 5: Do you need Bolt insulation?

No = 0 and yes = 1

Step 6: Place your part number in this format.

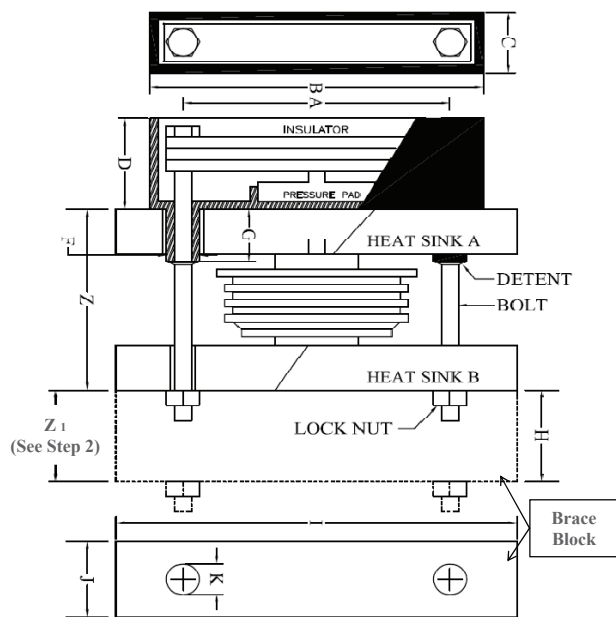


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TABLE 1 DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	2.745	2.800	69.72	71.12
B	3.925	3.935	99.70	99.95
C	0.995	1.005	25.27	25.53
D	1.115	1.125	28.32	28.58
E	—	—	—	—
F	0.395	0.495	10.03	12.57
G	0.845	0.855	21.46	21.72
H	1.000	1.005	25.40	25.53
I	3.500	3.505	88.90	89.03
J	1.000	1.005	25.40	25.53
K	0.408	0.438	10.36	11.13

OUTLINE DRAWING



Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.375" (9.5mm) thick, in order to withstand the full 2700 lbs (1225 Kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A		H		I		J		K		Type	Material	Finish
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
2	2.750	69.9	1.000	25.4	3.500	88.9	1.000	25.4	0.296	7.5	Thru hole	Aluminum	Irridite
8	2.750	69.9	0.500	12.7	3.500	88.9	1.000	25.4	1/4 - 20	1/4 - 20	Threaded	Steel	Zinc/clear

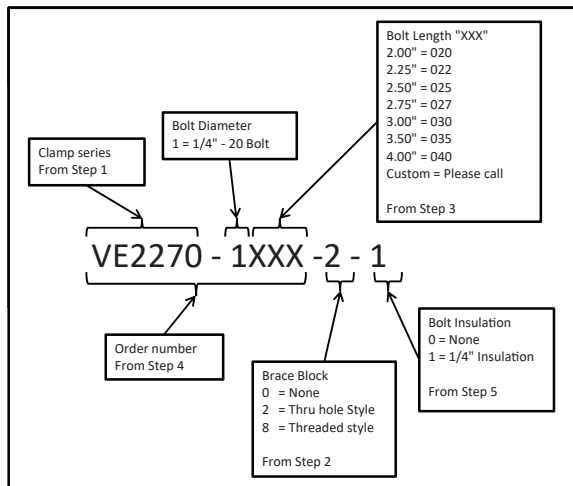
Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length.

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE2270	1800 - 2000 2300 - 2700	816 - 907 1043 - 1225	3° 4°	23,33	2.350	59.7	2.750	69.9	1/4" - 20	0.488	0.863	12.40	21.92	2.00	50.80	VE2070-1020
										0.738	1.113	18.75	28.27	2.25	57.15	VE2070-1022
										0.988	1.363	25.10	34.62	2.50	63.50	VE2070-1025
										1.238	1.613	31.45	40.97	2.75	69.85	VE2070-1027
										1.488	1.863	37.80	47.32	3.00	76.20	VE2070-1030
										1.988	2.363	50.50	60.02	3.50	88.90	VE2070-1035
										2.488	2.863	63.20	72.72	4.00	101.60	VE2070-1040

Step 5: Do you need Bolt insulation?
No = 0 and yes = 1

Step 6: Place your part number in this format.

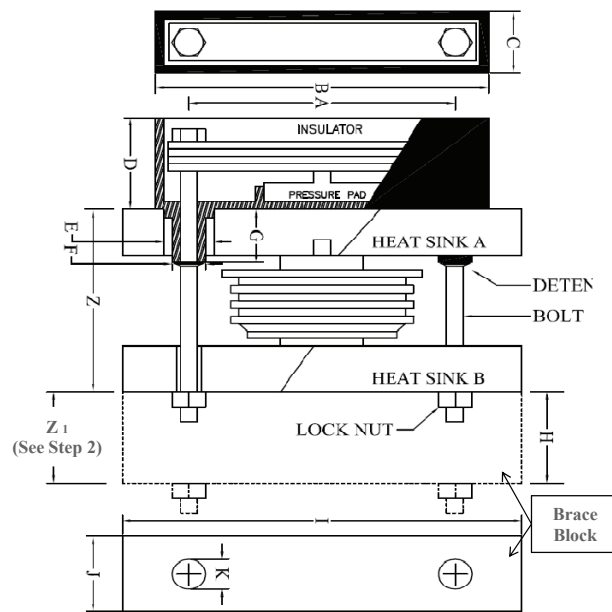


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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	3.095	3.105	78.60	79.00
B	4.500	4.520	114.30	114.50
C	0.985	0.995	25.02	25.27
D	1.230	1.270	31.20	32.20
E	0.845	0.865	21.46	21.97
F	0.670	0.700	17.01	17.78
G	0.850	0.875	21.59	22.23
H	0.985	1.015	25.01	25.78
I	3.940	4.060	100.00	103.10
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?

A backup brace block should be used when the mounting web of heatsink B is less than 0.375" (9.5mm) thick, in order to withstand the full 2400 lbs (1089 Kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A		H		I		J		K		Type	Material	Finish
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
3	3.100	78.7	1.000	25.4	4.000	101.6	1.000	25.4	0.421	10.7	Thru hole	Aluminum	Irridite

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below.

Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE2500	1400 - 1600 2200 - 2400	635 - 726 998 - 1089	3° 4°	33,38	2.575	65.4	3.100	78.7	3/8" - 24	1.375	2.125	34.93	53.98	3.50	88.90	VE2500-2035
										1.875	2.625	47.63	66.68	4.00	101.60	VE2500-2040
										2.375	3.125	60.33	79.38	4.50	114.30	VE2500-2045
										2.875	3.625	73.03	92.08	5.00	127.00	VE2500-2050
										3.375	4.125	85.73	104.78	5.50	139.70	VE2500-2055
										3.875	4.625	98.43	117.48	6.00	152.40	VE2500-2060
										4.375	5.125	111.13	130.18	6.50	165.10	VE2500-2065
										4.875	5.625	123.83	142.88	7.00	177.80	VE2500-2070

Step 5: Do you need Bolt insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

Clamp series
From Step 1

VE2500

Bolt Diameter
2 = 3/8" - 24 Bolt

- 2XXX -

Bolt Length "XXX"
3.50" = 035
4.00" = 040
4.50" = 045
5.00" = 050
5.50" = 055
6.00" = 060
6.50" = 065
7.00" = 070
Custom = Please call
From Step 3

- 3 -

Bolt Insulation
0 = None
2 = 3/8" Insulation
From Step 5

- 2

Order number
From Step 4

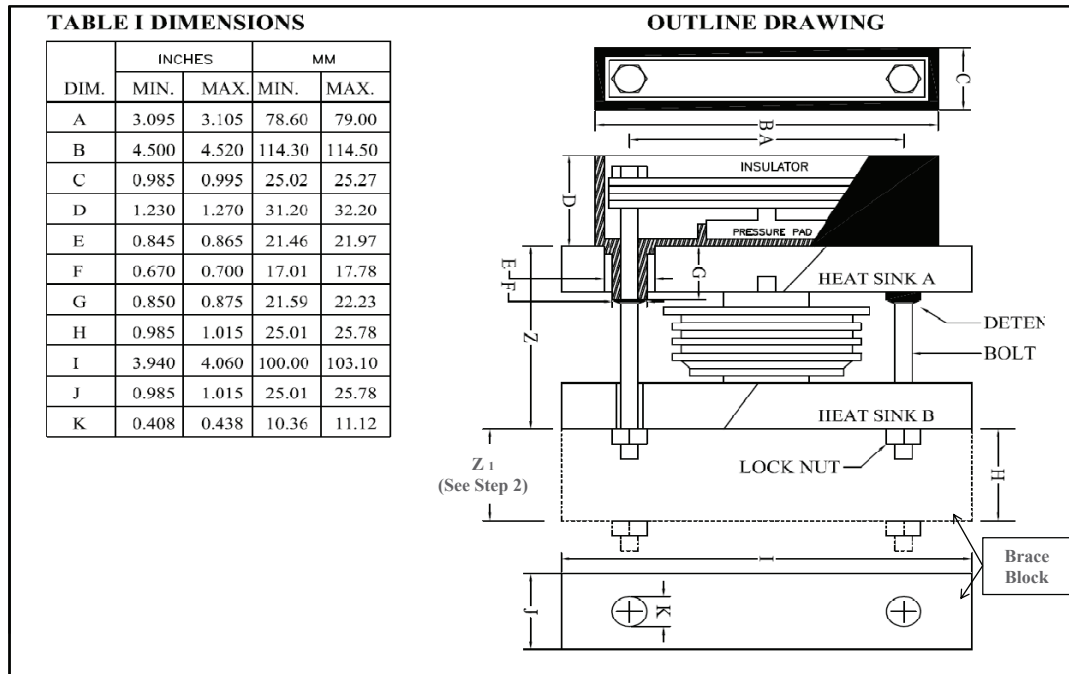
3

Brace Block
0 = None
3 = Thru hole Style

- 3

VE2500 - 2XXX - 3 - 2

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Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.375" (9.5mm) thick, in order to withstand the full 1200 lbs (544 Kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block	A		H		I		J		K		Type	Material	Finish
Item No.	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
3	3.100	78.7	1.000	25.4	4.000	101.6	1.000	25.4	0.421	10.7	Thru hole	Aluminum	Iridite

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

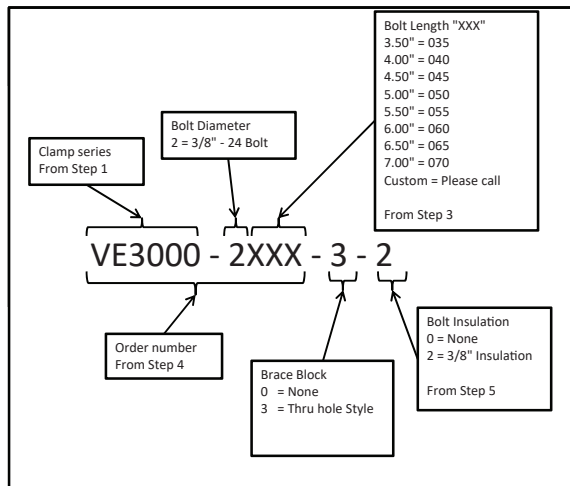
Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE3000	1800 - 1272 3200 - 3400	816 - 907 1452 - 1542	3° 4°	33,38	2.575	65.4	3.100	78.7	3/8" - 24	1.105	1.855	28.07	47.12	3.50	88.90	VE3000-2035
										1.605	2.355	40.77	59.82	4.00	101.60	VE3000-2040
										2.105	2.855	53.47	72.52	4.50	114.30	VE3000-2045
										2.605	3.355	66.17	85.22	5.00	127.00	VE3000-2050
										3.105	3.855	78.87	97.92	5.50	139.70	VE3000-2055
										3.605	4.355	91.57	110.62	6.00	152.40	VE3000-2060
										4.105	4.855	104.27	123.32	6.50	165.10	VE3000-2065
										4.605	5.355	116.97	136.02	7.00	177.80	VE3000-2070

Step 5: Do you need Bolt insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

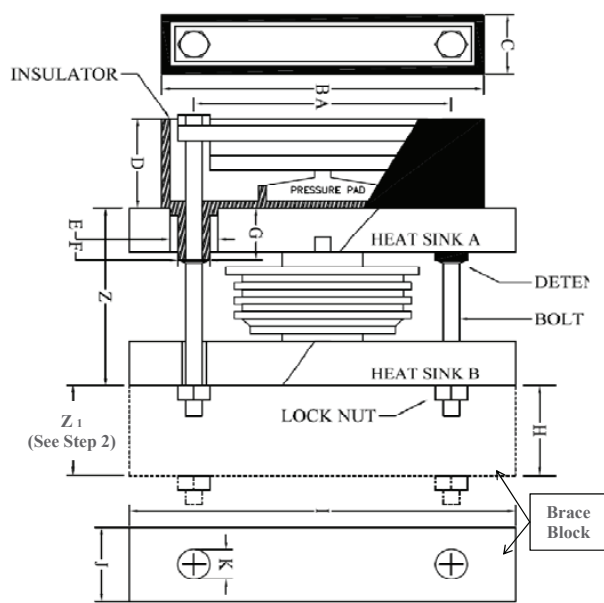


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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	3.985	4.015	101.22	101.98
B	5.235	5.250	132.97	133.35
C	0.985	1.015	25.02	25.78
D	1.570	1.580	39.88	40.13
E	0.845	0.865	21.46	21.97
F	0.670	0.700	17.01	17.78
G	0.850	0.875	21.59	22.23
H	0.985	1.015	25.01	25.78
I	4.985	5.015	126.62	127.38
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?

A backup brace block should be used when the mounting web of heatsink B is less than 0.500" (12.7mm) thick, in order to withstand the full 4200 lbs (1905 Kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A		H		I		J		K		Type	Material	Finish
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
5	4.000	101.6	1.000	25.4	5.000	127.0	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
7	4.000	101.6	0.500	12.7	5.000	127.0	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below.

Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE3500	3000 - 3500 3600 - 4200	1361 - 1588 1633 - 1905	3° 4°	33.38	3.450	87.6	4.000	101.6	3/8" - 24	1.250	2.000	31.75	50.80	3.50	88.90	VE3500-2035
										1.750	2.500	44.45	63.50	4.00	101.60	VE3500-2040
										2.250	3.000	57.15	76.20	4.50	114.30	VE3500-2045
										2.750	3.500	69.85	88.90	5.00	127.00	VE3500-2050
										3.250	4.000	82.55	101.60	5.50	139.70	VE3500-2055
										3.750	4.500	95.25	114.30	6.00	152.40	VE3500-2060
										4.250	5.000	107.95	127.00	6.50	165.10	VE3500-2065
										4.750	5.500	120.65	139.70	7.00	177.80	VE3500-2070

Step 5: Do you need Bolt Insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

Clamp series
From Step 1

VE3500

Bolt Diameter
2 = 3/8" - 24 Bolt

2XXX

Bolt Length "XXX"
3.50" = 035
4.00" = 040
4.50" = 045
5.00" = 050
5.50" = 055
6.00" = 060
6.50" = 065
7.00" = 070
Custom = Please call
From Step 3

5

Bolt Insulation
0 = None
2 = 3/8" Insulation
From Step 5

2

Order number
From Step 4

- 5 - 2

Brace Block
0 = None
5 = Thru hole Style
7 = Threaded Style
From Step 2

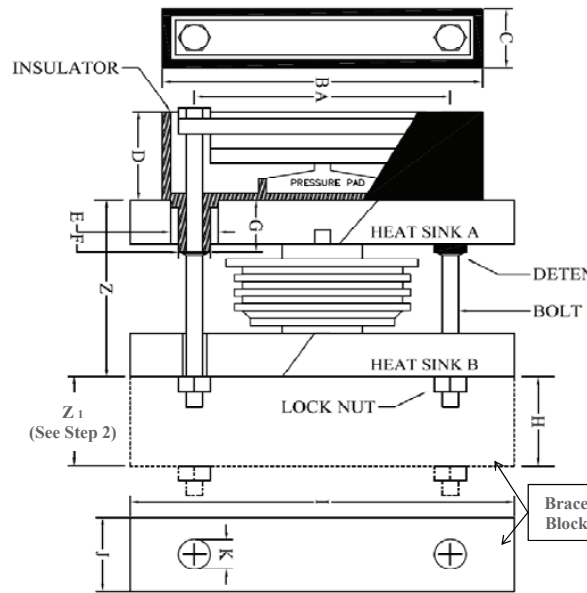
VE3500 - 2XXX - 5 - 2

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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	3.985	4.015	101.22	101.98
B	5.235	5.250	132.97	133.35
C	0.985	1.015	25.02	25.78
D	1.570	1.580	39.88	40.13
E	0.845	0.865	21.46	21.97
F	0.670	0.700	17.01	17.78
G	0.850	0.875	21.59	22.23
H	0.985	1.015	25.01	25.78
I	4.985	5.015	126.62	127.38
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?

A backup brace block should be used when the mounting web of heatsink B is less than 0.500" (12.7mm) thick, in order to withstand the full 6400 lbs (2903 kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A (in)	A (mm)	H (in)	H (mm)	I (in)	I (mm)	J (in)	J (mm)	K (in)	K (mm)	Type	Material	Finish
5	4.000	101.6	1.000	25.4	5.000	127.0	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
7	4.000	101.6	0.500	12.7	5.000	127.0	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length.

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE5500	4600 - 5400 5600 - 6400	2087 - 2450 2540 - 2903	3° 4°	33,38,50	3.450	87.6	4.000	101.6	3/8" - 24	2.500	3.250	63.50	82.55	5.00	127.00	VE5500-2050
										3.000	3.750	76.20	95.25	5.50	139.70	VE5500-2055
										3.500	4.250	88.90	107.95	6.00	152.40	VE5500-2060
										4.000	4.750	101.60	120.65	6.50	165.10	VE5500-2065
										4.500	5.250	114.30	133.35	7.00	177.80	VE5500-2070
										5.000	5.750	127.00	146.05	7.50	190.50	VE5500-2075
										5.500	6.250	139.70	158.75	8.00	203.20	VE5500-2080
										6.000	6.750	152.40	171.45	8.50	215.90	VE5500-2085

Step 5: Do you need Bolt insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

Clamp series
From Step 1

VE5500

Bolt Diameter
2 = 3/8" - 24 Bolt

- 2XXX

Bolt Length "XXX"
5.00" = 050
5.50" = 055
6.00" = 060
6.50" = 065
7.00" = 070
7.50" = 075
8.00" = 080
8.50" = 085
Custom = Please call
From Step 3

- 5 - 2

Order number
From Step 4

- 5 - 2

Brace Block
0 = None
5 = Thru hole Style
7 = Threaded Style
From Step 2

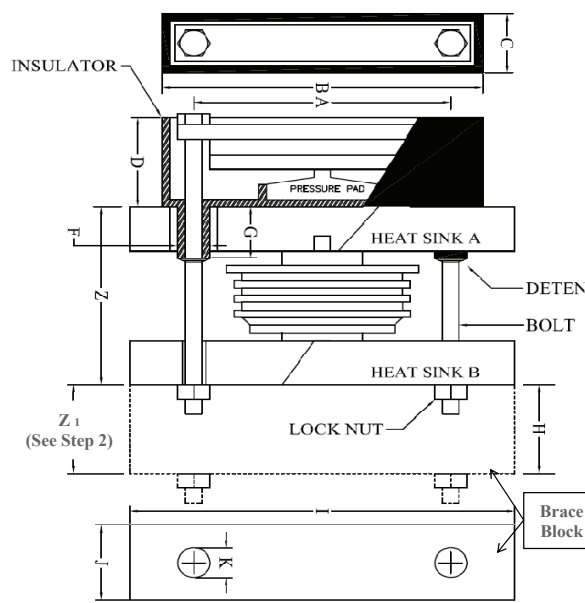
Bolt Insulation
0 = None
2 = 3/8" Insulation
From Step 5

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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	3.985	4.015	101.22	101.98
B	5.235	5.250	132.97	133.35
C	0.985	1.015	25.02	25.78
D	1.570	1.580	39.88	40.13
E	—	—	—	—
F	0.670	0.700	17.01	17.78
G	0.850	0.875	21.59	22.23
H	0.985	1.015	25.01	25.78
I	4.985	5.015	126.62	127.38
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.500" (12.7mm) thick, in order to withstand the full 4200 lbs (1905 Kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A		H		I		J		K		Type	Material	Finish
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
5	4.000	101.6	1.000	25.4	5.000	127.0	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
7	4.000	101.6	0.500	12.7	5.000	127.0	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length.

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE3501	3000 - 3500 3600 - 4200	1361 - 1588 1633 - 1905	3° 4°	33.38	3.450	87.6	4.000	101.6	3/8" - 24	1.250	2.000	31.75	50.80	3.50	88.90	VE3501-2035
										1.750	2.500	44.45	63.50	4.00	101.60	VE3501-2040
										2.250	3.000	57.15	76.20	4.50	114.30	VE3501-2045
										2.750	3.500	69.85	88.90	5.00	127.00	VE3501-2050
										3.250	4.000	82.55	101.60	5.50	139.70	VE3501-2055
										3.750	4.500	95.25	114.30	6.00	152.40	VE3501-2060
										4.250	5.000	107.95	127.00	6.50	165.10	VE3501-2065
										4.750	5.500	120.65	139.70	7.00	177.80	VE3501-2070

Step 5: Do you need Bolt Insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

Clamp series
From Step 1

Bolt Diameter
2 = 3/8" - 24 Bolt

Bolt Length "XXX"
3.50" = 035
4.00" = 040
4.50" = 045
5.00" = 050
5.50" = 055
6.00" = 060
6.50" = 065
7.00" = 070
Custom = Please call
From Step 3

VE3501 - 2XXX - 5 - 2

Order number
From Step 4

Brace Block
0 = None
5 = Thru hole Style
7 = Threaded Style
From Step 2

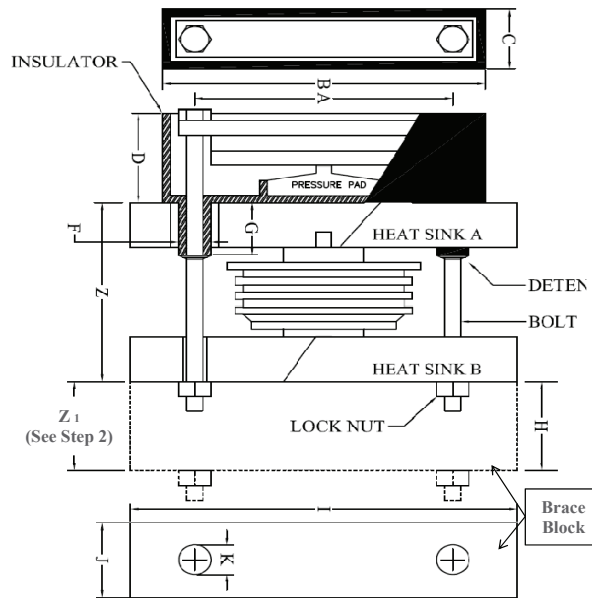
Bolt Insulation
0 = None
2 = 3/8" Insulation
From Step 5

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TABLE 1 DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	3.985	4.015	101.22	101.98
B	5.235	5.250	132.97	133.35
C	0.985	1.015	25.02	25.78
D	1.570	1.580	39.88	40.13
E	—	—	—	—
F	0.670	0.700	17.01	17.78
G	0.850	0.875	21.59	22.23
H	0.985	1.015	25.01	25.78
I	4.985	5.015	126.62	127.38
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.500" (12.7mm) thick, in order to withstand the full 6400 lbs (2903 kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block	A		H		I		J		K		Type	Material	Finish
Item No.	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
5	4.000	101.6	1.000	25.4	5.000	127.0	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
7	4.000	101.6	0.500	12.7	5.000	127.0	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

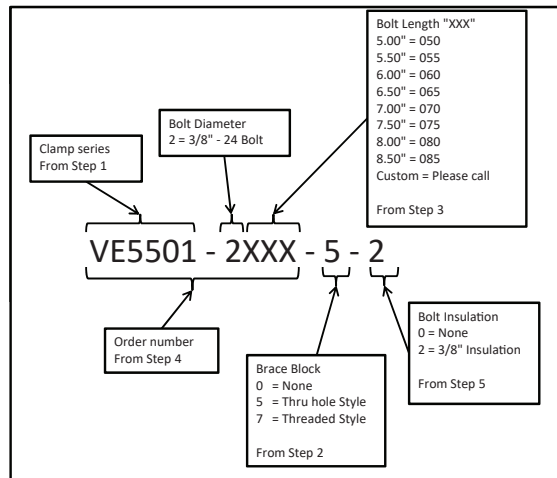
Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE5501	4600 - 5400 5600 - 6400	2087 - 2450 2540 - 2903	3° 4°	33,38,50	3.450	87.6	4.000	101.6	3/8" - 24	2.500	3.250	63.50	82.55	5.00	127.00	VE5501-2050
										3.000	3.750	76.20	95.25	5.50	139.70	VE5501-2055
										3.500	4.250	88.90	107.95	6.00	152.40	VE5501-2060
										4.000	4.750	101.60	120.65	6.50	165.10	VE5501-2065
										4.500	5.250	114.30	133.35	7.00	177.80	VE5501-2070
										5.000	5.750	127.00	146.05	7.50	190.50	VE5501-2075
										5.500	6.250	139.70	158.75	8.00	203.20	VE5501-2080
										6.000	6.750	152.40	171.45	8.50	215.90	VE5501-2085

Step 5: Do you need Bolt insulation?
No = 0 and yes = 2

Step 6: Place your part number in this format.

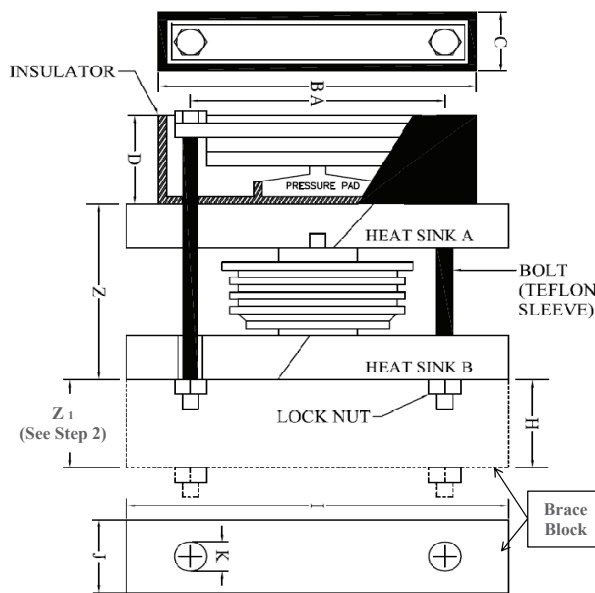


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TABLE 1 DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	3.985	4.015	101.22	101.98
B	5.235	5.250	132.97	133.35
C	0.985	1.015	25.02	25.78
D	1.570	1.580	39.88	40.13
E	—	—	—	—
F	—	—	—	—
G	—	—	—	—
H	0.985	1.015	25.01	25.78
I	4.985	5.015	126.62	127.38
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.500" (12.7mm) thick, in order to withstand the full 4200 lbs (1905 Kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block	A		H		I		J		K		Type	Material	Finish
Item No.	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
5	4.000	101.6	1.000	25.4	5.000	127.0	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
7	4.000	101.6	0.500	12.7	5.000	127.0	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Clamp Load					Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
Product ID	(lbs)	(kg)	Spring Deflection Degrees*	Typical SCR Device Size (mm)	(in)	(mm)	(in)	(mm)		(in)	MAX.	(mm)	MAX.	(in)	(mm)	
VE3510	3000 - 3500 3600 - 4200	1361 - 1588 1633 - 1905	3° 4°	33,38	3.450	87.6	4.000	101.6	3/8" - 24	1.250	2.000	31.75	50.80	3.50	88.90	VE3510-2035
										1.750	2.500	44.45	63.50	4.00	101.60	VE3510-2040
										2.250	3.000	57.15	76.20	4.50	114.30	VE3510-2045
										2.750	3.500	69.85	88.90	5.00	127.00	VE3510-2050
										3.250	4.000	82.55	101.60	5.50	139.70	VE3510-2055
										3.750	4.500	95.25	114.30	6.00	152.40	VE3510-2060
										4.250	5.000	107.95	127.00	6.50	165.10	VE3510-2065
										4.750	5.500	120.65	139.70	7.00	177.80	VE3510-2070

Step 5: Do you need Bolt insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

Clamp series
From Step 1

Bolt Diameter
2 = 3/8" - 24 Bolt

Bolt Length "XXX"
3.50" = 035
4.00" = 040
4.50" = 045
5.00" = 050
5.50" = 055
6.00" = 060
6.50" = 065
7.00" = 070
Custom = Please call
From Step 3

VE3510 - 2XXX - 5 - 2

Order number
From Step 4

Brace Block
0 = None
5 = Thru hole Style
7 = Threaded Style
From Step 2

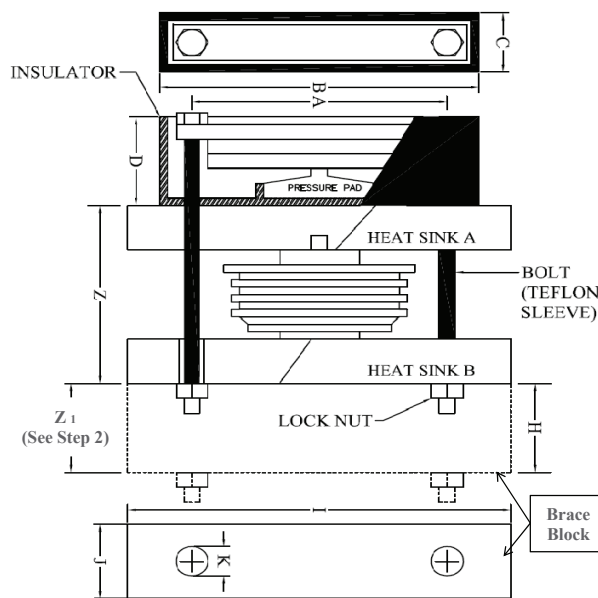
Bolt Insulation
0 = None
2 = 3/8" Insulation
From Step 5

<Back

TABLE 1 DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	3.985	4.015	101.22	101.98
B	5.235	5.250	132.97	133.35
C	0.985	1.015	25.02	25.78
D	1.570	1.580	39.88	40.13
E	—	—	—	—
F	—	—	—	—
G	—	—	—	—
H	0.985	1.015	25.01	25.78
I	4.985	5.015	126.62	127.38
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?

A backup brace block should be used when the mounting web of heatsink B is less than 0.500" (12.7mm) thick, in order to withstand the full 6400 lbs (2903 kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A (in)	A (mm)	H (in)	H (mm)	I (in)	I (mm)	J (in)	J (mm)	K (in)	K (mm)	Type	Material	Finish
5	4.000	101.6	1.000	25.4	5.000	127.0	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
7	4.000	101.6	0.500	12.7	5.000	127.0	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below.

Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE5510	4600 - 5400 5600 - 6400	2087 - 2450 2540 - 2903	3° 4°	33,38,50	3.450	87.6	4.000	101.6	3/8" - 24	2.500	3.250	63.50	82.55	5.00	127.00	VE5510-2050
										3.000	3.750	76.20	95.25	5.50	139.70	VE5510-2055
										3.500	4.250	88.90	107.95	6.00	152.40	VE5510-2060
										4.000	4.750	101.60	120.65	6.50	165.10	VE5510-2065
										4.500	5.250	114.30	133.35	7.00	177.80	VE5510-2070
										5.000	5.750	127.00	146.05	7.50	190.50	VE5510-2075
										5.500	6.250	139.70	158.75	8.00	203.20	VE5510-2080
										6.000	6.750	152.40	171.45	8.50	215.90	VE5510-2085

Step 5: Do you need Bolt Insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

Clamp series
From Step 1

Bolt Diameter
2 = 3/8" - 24 Bolt

Bolt Length "XXX"
5.00" = 050
5.50" = 055
6.00" = 060
6.50" = 065
7.00" = 070
7.50" = 075
8.00" = 080
8.50" = 085
Custom = Please call
From Step 3

VE5510 - 2XXX - 5 - 2

Order number
From Step 4

Brace Block
0 = None
5 = Thru hole Style
7 = Threaded Style
From Step 2

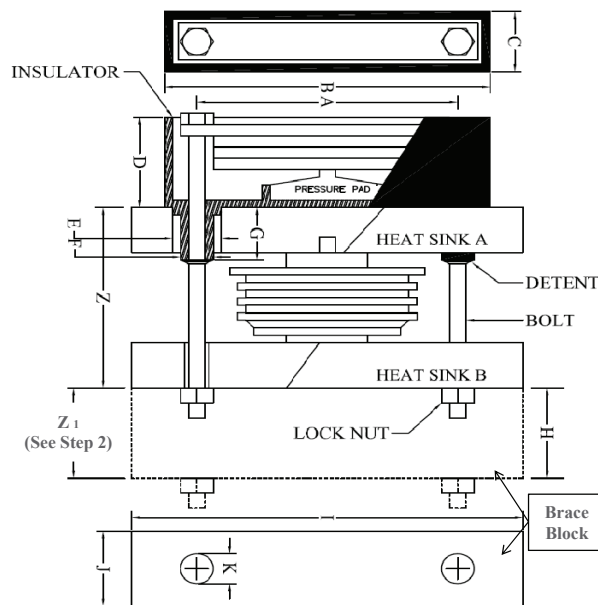
Bolt Insulation
0 = None
2 = 3/8" Insulation
From Step 5

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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	4.610	4.640	117.09	117.85
B	5.875	5.905	149.23	149.99
C	0.985	1.015	25.01	25.78
D	1.695	1.705	43.05	43.31
E	0.845	0.865	21.46	21.97
F	0.670	0.700	17.01	17.78
G	0.850	0.875	21.59	22.23
H	0.985	1.015	25.01	25.78
I	5.575	5.675	141.61	144.15
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.750" (19.05mm) thick, in order to withstand the full 6800 lbs (3085 kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block	A		H		I		J		K		Type	Material	Finish
Item No.	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
6	4.625	117.5	1.000	25.4	5.625	142.9	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
9	4.625	117.5	0.500	12.7	5.625	142.9	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

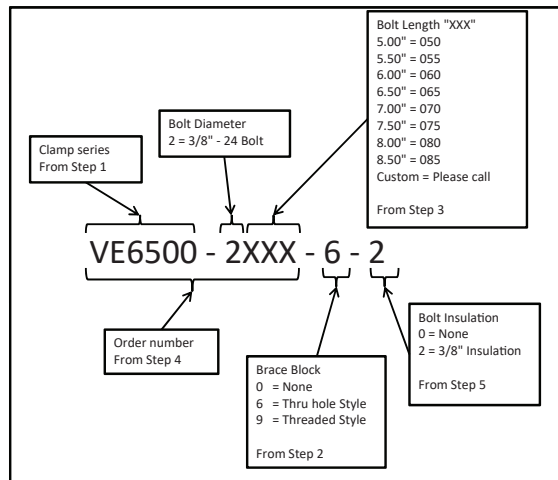
Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

		Clamp Load				Allowable Component Size		Bolt Hole Centers				Allowable "Z" Dimension					
												(in)		(mm)		Bolt Length	
Product ID	(lbs)	(kg)	Spring Deflection Degrees*	Typical SCR Device Size (mm)	(in)	(mm)	(in)	(mm)	Bolt Diameter	MIN.	MAX.	MIN.	MAX.	(in)	(mm)	Order Number	
VE6500	5000 - 5500 6200 - 6800	2268 - 2495 2812 - 3085	3° 4°	50,67	4.100	104.1	4.625	117.5	3/8" - 24	2.250	3.000	57.15	76.20	5.00	127.00	VE6500-2050	
										2.750	3.500	69.85	88.90	5.50	139.70	VE6500-2055	
										3.250	4.000	82.55	101.60	6.00	152.40	VE6500-2060	
										3.750	4.500	95.25	114.30	6.50	165.10	VE6500-2065	
										4.250	5.000	107.95	127.00	7.00	177.80	VE6500-2070	
										4.750	5.500	120.65	139.70	7.50	190.50	VE6500-2075	
										5.250	6.000	133.35	152.40	8.00	203.20	VE6500-2080	
										5.750	6.500	146.05	165.10	8.50	215.90	VE6500-2085	

Step 5: Do you need Bolt insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

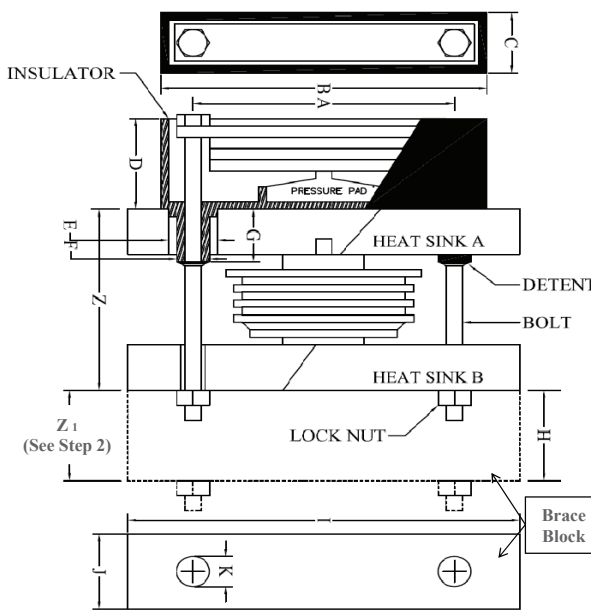


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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	4.610	4.640	117.09	117.85
B	5.875	5.905	149.23	149.99
C	0.985	1.015	25.01	25.78
D	1.695	1.705	43.05	43.31
E	0.845	0.865	21.46	21.97
F	0.670	0.700	17.01	17.78
G	0.850	0.875	21.59	22.23
H	0.985	1.015	25.01	25.78
I	5.575	5.675	141.61	144.15
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?

A backup brace block should be used when the mounting web of heatsink B is less than 0.750" (19.05mm) thick, in order to withstand the full 7800 lbs (3538 kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block	A		H		I		J		K		Type	Material	Finish
Item No.	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
6	4.625	117.5	1.000	25.4	5.625	142.9	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
9	4.625	117.5	0.500	12.7	5.625	142.9	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below.

Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

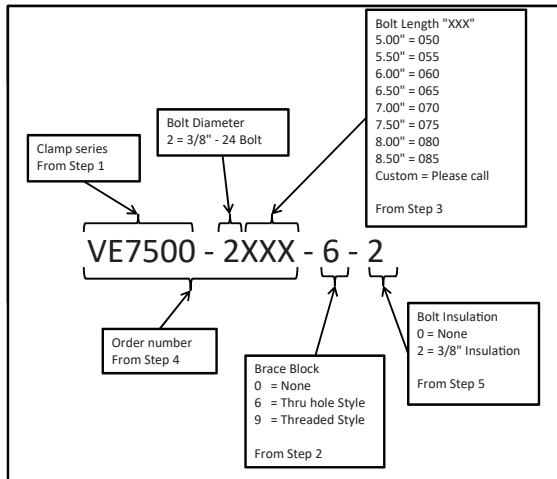
Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE7500	6700 - 7200 7200 - 7800	3040 - 3266 3266 - 3538	3° 4°	50,67	4.100	104.1	4.625	117.5	3/8" - 24	2.000	2.750	50.80	69.85	5.00	127.00	VE7500-2050
										2.500	3.250	63.50	82.55	5.50	139.70	VE7500-2055
										3.000	3.750	76.20	95.25	6.00	152.40	VE7500-2060
										3.500	4.250	88.90	107.95	6.50	165.10	VE7500-2065
										4.000	4.750	101.60	120.65	7.00	177.80	VE7500-2070
										4.500	5.250	114.30	133.35	7.50	190.50	VE7500-2075
										5.000	5.750	127.00	146.05	8.00	203.20	VE7500-2080
										5.500	6.250	139.70	158.75	8.50	215.90	VE7500-2085

Step 5: Do you need Bolt insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

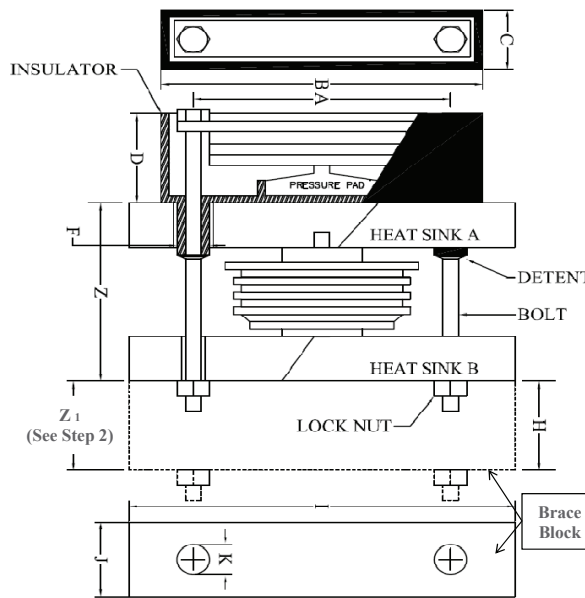


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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	4.610	4.640	117.09	117.85
B	5.875	5.905	149.23	149.99
C	0.985	1.015	25.01	25.78
D	1.695	1.705	43.05	43.31
E	—	—	—	—
F	0.670	0.700	17.01	17.78
G	0.850	0.875	21.59	22.23
H	0.985	1.015	25.01	25.78
I	5.575	5.675	141.61	144.15
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?
A backup brace block should be used when the mounting web of heatsink B is less than 0.750" (19.05mm) thick, in order to withstand the full 6800 lbs (3085 kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block	A		H		I		J		K		Type	Material	Finish
Item No.	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
6	4.625	117.5	1.000	25.4	5.625	142.9	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
9	4.625	117.5	0.500	12.7	5.625	142.9	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

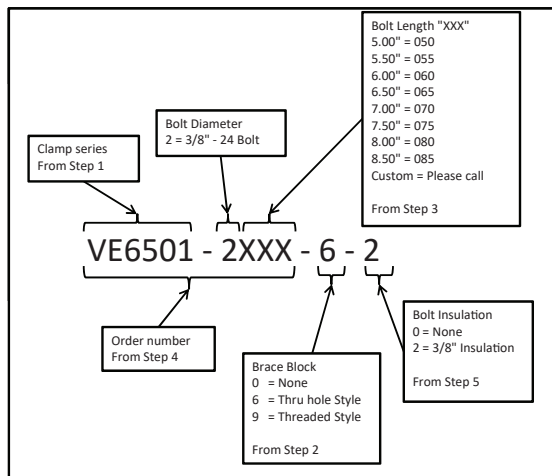
Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length.

Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

		Clamp Load				Allowable Component Size		Bolt Hole Centers				Allowable "Z" Dimension					
												(in)		(mm)		Bolt Length	
Product ID	(lbs)	(kg)	Spring Deflection Degrees*	Typical SCR Device Size (mm)	(in)	(mm)	(in)	(mm)	Bolt Diameter	MIN.	MAX.	MIN.	MAX.	(in)	(mm)	Order Number	
VE6501	5000 - 5500 6200 - 6800	2268 - 2495 2812 - 3085	3° 4°	50.67	4.100	104.1	4.625	117.5	3/8" - 24	2.250	3.000	57.15	76.20	5.00	127.00	VE6501-2050	
										2.750	3.500	69.85	88.90	5.50	139.70	VE6501-2055	
										3.250	4.000	82.55	101.60	6.00	152.40	VE6501-2060	
										3.750	4.500	95.25	114.30	6.50	165.10	VE6501-2065	
										4.250	5.000	107.95	127.00	7.00	177.80	VE6501-2070	
										4.750	5.500	120.65	139.70	7.50	190.50	VE6501-2075	
										5.250	6.000	133.35	152.40	8.00	203.20	VE6501-2080	
										5.750	6.500	146.05	165.10	8.50	215.90	VE6501-2085	

Step 5: Do you need Bolt Insulation?
No = 0 and yes = 2

Step 6: Place your part number in this format.

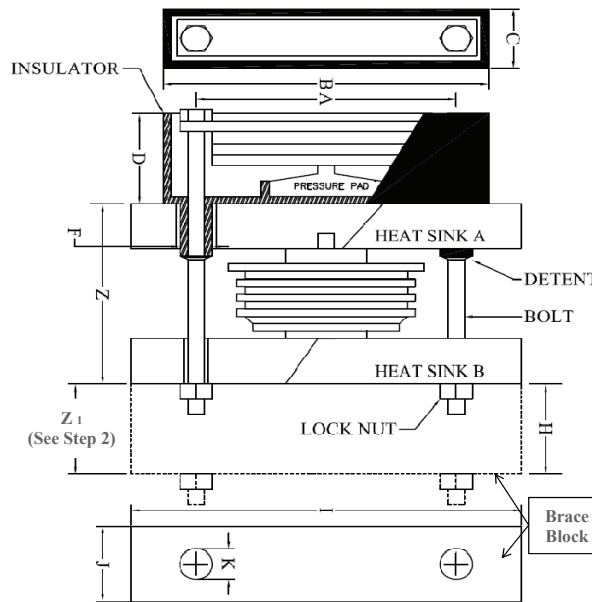


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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	4.610	4.640	117.09	117.85
B	5.875	5.905	149.23	149.99
C	0.985	1.015	25.01	25.78
D	1.695	1.705	43.05	43.31
E	—	—	—	—
F	0.670	0.700	17.01	17.78
G	0.850	0.875	21.59	22.23
H	0.985	1.015	25.01	25.78
I	5.575	5.675	141.61	144.15
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?

A backup brace block should be used when the mounting web of heatsink B is less than 0.750" (19.05mm) thick, in order to withstand the full 7800 lbs (3538 kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block Item No.	A		H		I		J		K		Type	Material	Finish
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
6	4.625	117.5	1.000	25.4	5.625	142.9	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
9	4.625	117.5	0.500	12.7	5.625	142.9	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below.

Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

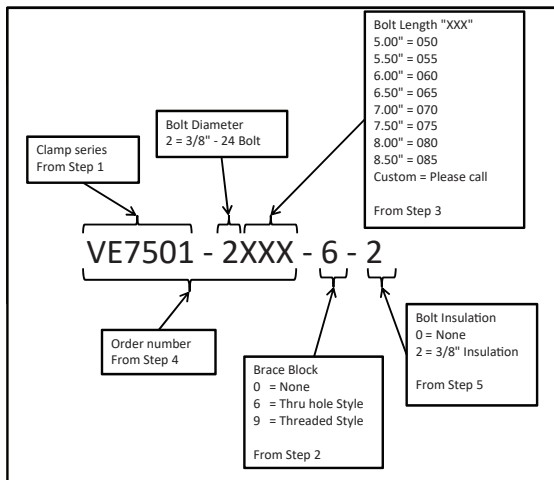
Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE7501	6700 - 7200 7200 - 7800	3040 - 3266 3266 - 3538	3° 4°	50.67	4.100	104.1	4.625	117.5	3/8" - 24	2.000	2.750	50.80	69.85	5.00	127.00	VE7501-2050
										2.500	3.250	63.50	82.55	5.50	139.70	VE7501-2055
										3.000	3.750	76.20	95.25	6.00	152.40	VE7501-2060
										3.500	4.250	88.90	107.95	6.50	165.10	VE7501-2065
										4.000	4.750	101.60	120.65	7.00	177.80	VE7501-2070
										4.500	5.250	114.30	133.35	7.50	190.50	VE7501-2075
										5.000	5.750	127.00	146.05	8.00	203.20	VE7501-2080
										5.500	6.250	139.70	158.75	8.50	215.90	VE7501-2085

Step 5: Do you need Bolt insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

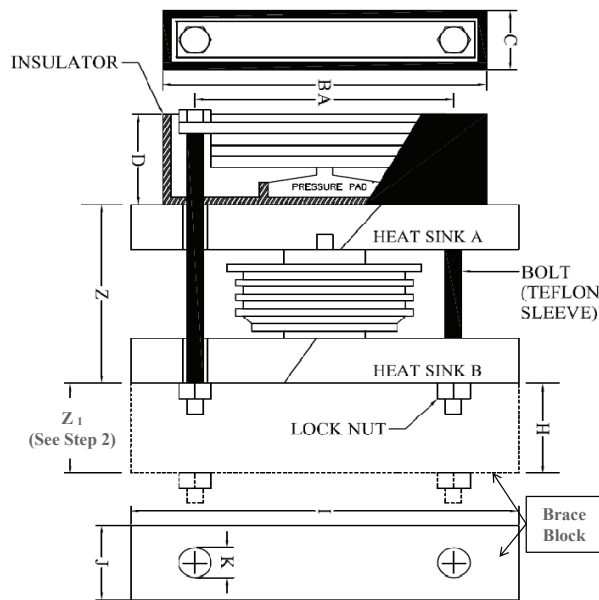


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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	4.610	4.640	117.09	117.85
B	5.875	5.905	149.23	149.99
C	0.985	1.015	25.01	25.78
D	1.695	1.705	43.05	43.31
E	—	—	—	—
F	—	—	—	—
G	—	—	—	—
H	0.985	1.015	25.01	25.78
I	5.575	5.675	141.61	144.15
J	0.985	1.015	25.01	25.78
K	0.408	0.438	10.36	11.12

OUTLINE DRAWING



Step 2: Do you need a Brace Block?

A backup brace block should be used when the mounting web of heatsink B is less than 0.750" (19.05mm) thick, in order to withstand the full 6800 lbs (3085 kg) clamp load. If the answer is yes then pick your backup brace bar below and note it for step 6.

Brace Block	A		H		I		J		K		Type	Material	Finish
Item No.	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
6	4.625	117.5	1.000	25.4	5.625	142.9	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
9	4.625	117.5	0.500	12.7	5.625	142.9	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below.

Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness, heat sink B thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length

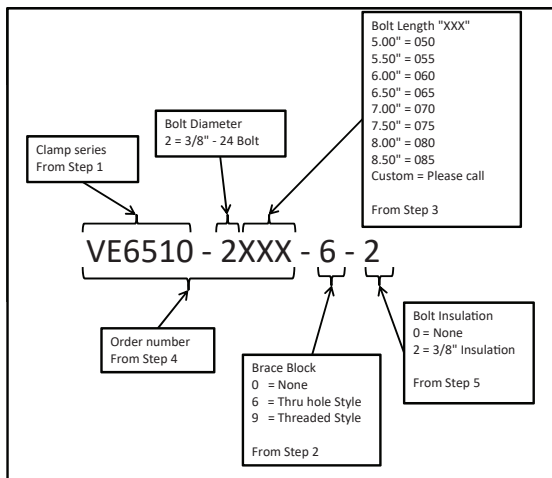
Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE6510	5000 - 5500 6200 - 6800	2268 - 2495 2812 - 3085	3° 4°	50,67	4.100	104.1	4.625	117.5	3/8" - 24	2.250	3.000	57.15	76.20	5.00	127.00	VE6510-2050
										2.750	3.500	69.85	88.90	5.50	139.70	VE6510-2055
										3.250	4.000	82.55	101.60	6.00	152.40	VE6510-2060
										3.750	4.500	95.25	114.30	6.50	165.10	VE6510-2065
										4.250	5.000	107.95	127.00	7.00	177.80	VE6510-2070
										4.750	5.500	120.65	139.70	7.50	190.50	VE6510-2075
										5.250	6.000	133.35	152.40	8.00	203.20	VE6510-2080
										5.750	6.500	146.05	165.10	8.50	215.90	VE6510-2085

Step 5: Do you need Bolt Insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.

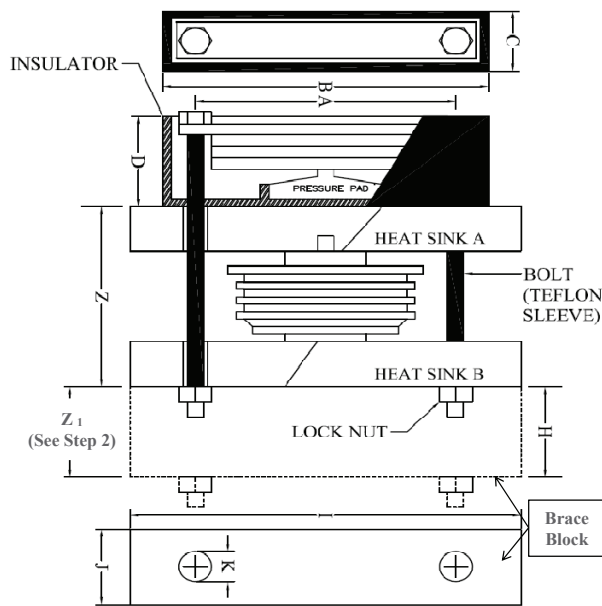


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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
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C	0.985	1.015	25.01	25.78
D	1.695	1.705	43.05	43.31
E	—	—	—	—
F	—	—	—	—
G	—	—	—	—
H	0.985	1.015	25.01	25.78
I	5.575	5.675	141.61	144.15
J	0.985	1.015	25.01	25.78
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OUTLINE DRAWING



Step 2: Do you need a Brace Block?
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Brace Block	A		H		I		J		K		Type	Material	Finish
Item No.	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
6	4.625	117.5	1.000	25.4	5.625	142.9	1.000	25.4	0.437	11.1	Thru hole	Steel	Zinc/clear
9	4.625	117.5	0.500	12.7	5.625	142.9	1.000	25.4	3/8 - 24	3/8 - 24	Threaded	Steel	Zinc/clear

Step 3: Determine the bolt length based on the total "Z" dimension. Each bolt length has an allowable "Z" dimension found in the table below. Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness and the brace block "H" dimension (found in Step 2) then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length.

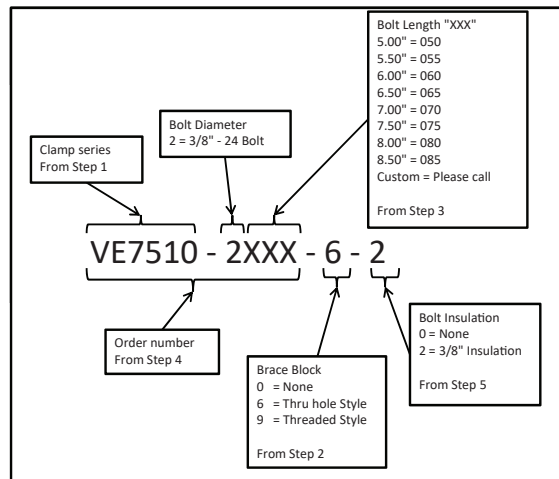
Step 4: Determine the ORDER NUMBER based on the bolt length found in the last column in the table below and write it down for step 6.

Product ID	Clamp Load		Spring Deflection Degrees*	Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)			(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
										MIN.	MAX.	MIN.	MAX.			
VE7510	6700 - 7200 7200 - 7800	3040 - 3266 3266 - 3538	3° 4°	50,67	4.100	104.1	4.625	117.5	3/8" - 24	2.000	2.750	50.80	69.85	5.00	127.00	VE7510-2050
										2.500	3.250	63.50	82.55	5.50	139.70	VE7510-2055
										3.000	3.750	76.20	95.25	6.00	152.40	VE7510-2060
										3.500	4.250	88.90	107.95	6.50	165.10	VE7510-2065
										4.000	4.750	101.60	120.65	7.00	177.80	VE7510-2070
										4.500	5.250	114.30	133.35	7.50	190.50	VE7510-2075
										5.000	5.750	127.00	146.05	8.00	203.20	VE7510-2080
										5.500	6.250	139.70	158.75	8.50	215.90	VE7510-2085

Step 5: Do you need Bolt insulation?

No = 0 and yes = 2

Step 6: Place your part number in this format.



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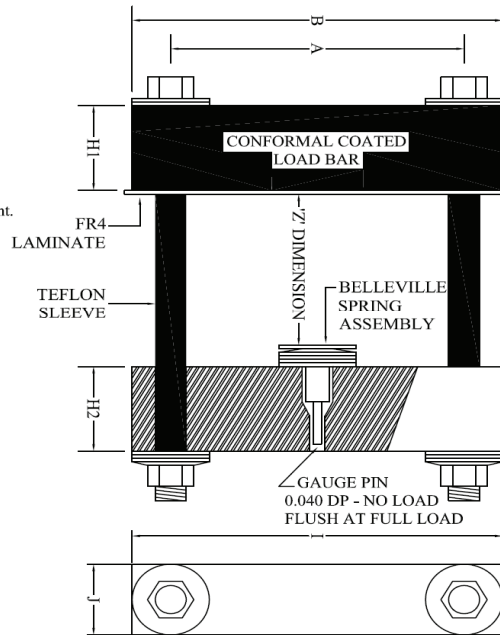
Special Features

- Center loading insures constant pressure in rugged applications over long periods.
- Extremely high dielectric and creep.
- Very definitive built in Force Indicator Gauge eliminates need for torque wrenches, inaccurate "flex" gauges, and guesswork.
- Various bolt lengths available to accommodate most mount situations.
- Positive, non-binding swivel action.
- Load bars are made of hard aluminum normally found in the aircraft industry.
- All pressure points are hardened material and mechanically plated eliminating any embrittlement.

TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	4.620	4.630	117.35	117.60
B	6.180	6.190	157.18	157.23
C	—	—	—	—
D	—	—	—	—
E	—	—	—	—
F	—	—	—	—
H1	1.780	1.840	45.21	46.74
H2	1.745	1.765	44.32	44.83
I	6.125	6.130	155.58	155.70
J	1.485	1.515	37.72	38.48
K	—	—	—	—

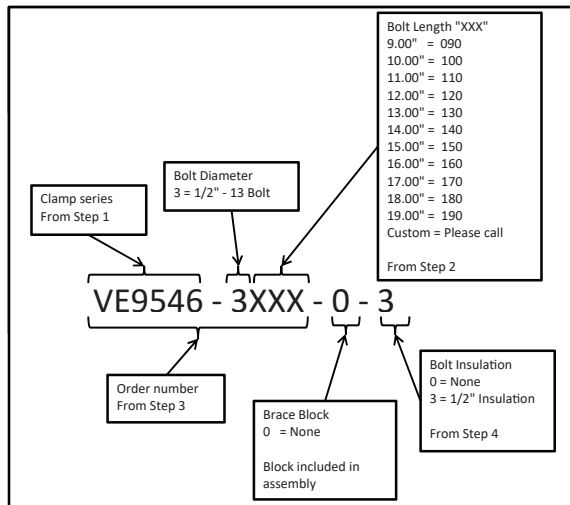
OUTLINE DRAWING



- Step 2:** Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness and heat sink B thickness.
Then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length
- Step 3:** Determine the ORDER NUMBER, based on the bolt length found in the last column in the table below, and write it down for step 5.

Product ID	Clamp Load		Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)		(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
									MIN.	MAX.	MIN.	MAX.			
VE9546	9000 - 11000	4082 - 4990	67	3.975	101.0	4.625	117.5	1/2" - 13	2.800	3.700	71.12	93.98	9.00	228.60	VE9546-3090
									3.800	4.700	96.52	119.38	10.00	254.00	VE9546-3100
									4.800	5.700	121.92	144.78	11.00	279.40	VE9546-3110
									5.800	6.700	147.32	170.18	12.00	304.80	VE9546-3120
									6.800	7.700	172.72	195.58	13.00	330.20	VE9546-3130
									7.800	8.700	198.12	220.98	14.00	355.60	VE9546-3140
									8.800	9.700	223.52	246.38	15.00	381.00	VE9546-3150
									9.800	10.700	248.92	271.78	16.00	406.40	VE9546-3160
									10.800	11.700	274.32	297.18	17.00	431.80	VE9546-3170
									11.800	12.700	299.72	322.58	18.00	457.20	VE9546-3180
									12.800	13.700	325.12	347.98	19.00	482.60	VE9546-3190

- Step 4:** Do you need Bolt insulation?
No = 0 and yes = 3
- Step 5:** Place your part number in this format.



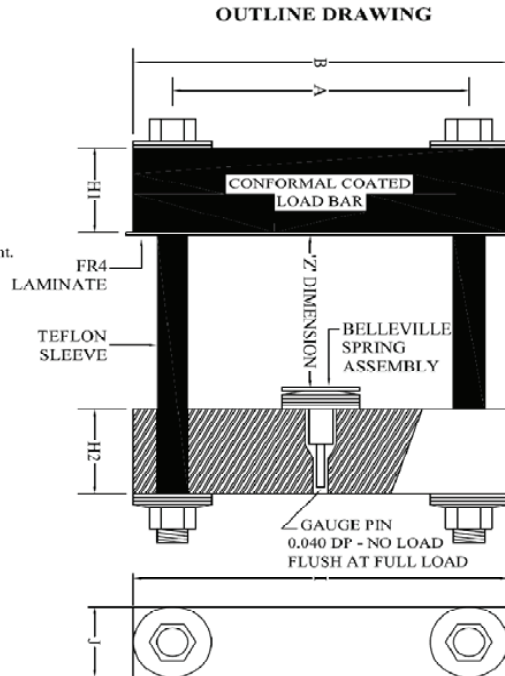
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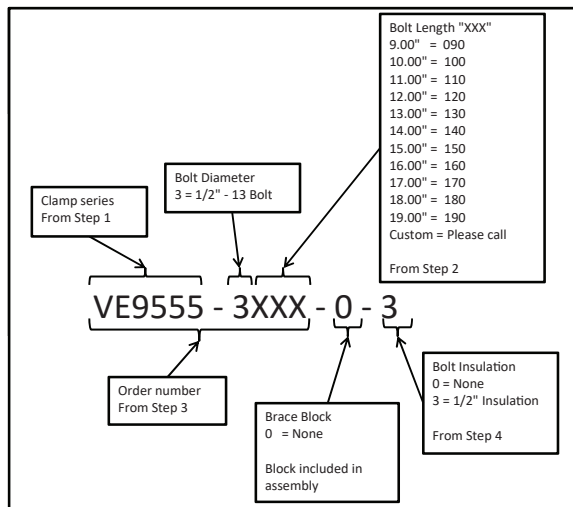
DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	5.485	5.515	139.32	140.08
B	7.060	7.080	179.32	179.83
C	—	—	—	—
D	—	—	—	—
E	—	—	—	—
F	—	—	—	—
H1	1.780	1.840	45.21	46.74
H2	1.745	1.765	44.32	44.83
I	6.985	7.015	177.42	178.18
J	1.485	1.515	37.72	38.48
K	—	—	—	—



- Step 2:** Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness and heat sink B thickness. Then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length
- Step 3:** Determine the ORDER NUMBER, based on the bolt length found in the last column in the table below, and write it down for step 5.

Product ID	Clamp Load		Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)		(in)	(mm)	(in)	(mm)		(in)		(mm)		(in)	(mm)	
									MIN.	MAX.	MIN.	MAX.			
VE9555	9000 - 11000	4082 - 4990	67, 77	4.850	123.2	5.500	139.7	1/2" - 13	2.800	3.700	71.12	93.98	9.00	228.60	VE9555-3090
									3.800	4.700	96.52	119.38	10.00	254.00	VE9555-3100
									4.800	5.700	121.92	144.78	11.00	279.40	VE9555-3110
									5.800	6.700	147.32	170.18	12.00	304.80	VE9555-3120
									6.800	7.700	172.72	195.58	13.00	330.20	VE9555-3130
									7.800	8.700	198.12	220.98	14.00	355.60	VE9555-3140
									8.800	9.700	223.52	246.38	15.00	381.00	VE9555-3150
									9.800	10.700	248.92	271.78	16.00	406.40	VE9555-3160
									10.800	11.700	274.32	297.18	17.00	431.80	VE9555-3170
									11.800	12.700	299.72	322.58	18.00	457.20	VE9555-3180
									12.800	13.700	325.12	347.98	19.00	482.60	VE9555-3190

- Step 4:** Do you need Bolt insulation?
No = 0 and yes = 3
- Step 5:** Place your part number in this format.



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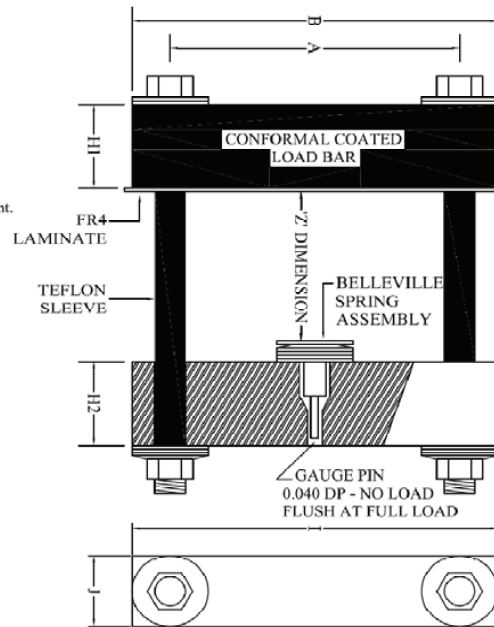
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TABLE I DIMENSIONS

DIM.	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	7.485	7.515	190.12	190.88
B	9.055	9.085	230.00	230.76
C	—	—	—	—
D	—	—	—	—
E	—	—	—	—
F	—	—	—	—
H1	1.780	1.860	45.21	47.24
H2	1.745	1.765	44.32	44.83
I	8.985	9.015	228.22	228.98
J	1.485	1.515	37.72	38.48
K	—	—	—	—

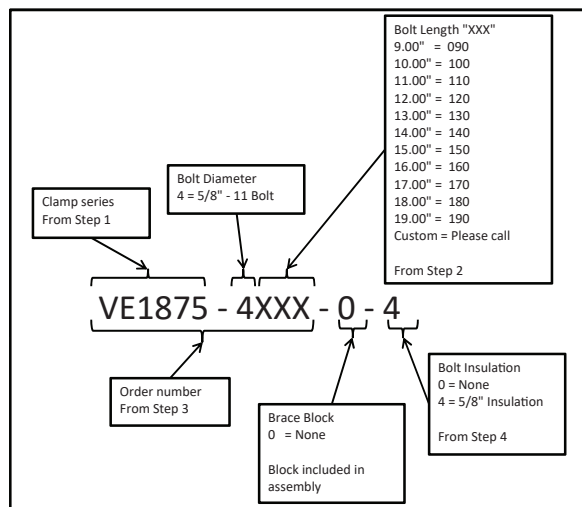
OUTLINE DRAWING



- Step 2:** Calculate the total "Z" dimension, which includes the SCR thickness, heat sink A thickness and heat sink B thickness. Then in the table below, find your calculated "Z" dimension in the Allowable "Z" dimension column to determine the correct bolt length
- Step 3:** Determine the ORDER NUMBER, based on the bolt length found in the last column in the table below, and write it down for step 5.

Product ID	Clamp Load		Typical SCR Device Size (mm)	Allowable Component Size		Bolt Hole Centers		Bolt Diameter	Allowable "Z" Dimension				Bolt Length		Order Number
	(lbs)	(kg)		(in)	(mm)	(in)	(mm)		(in)	MAX.	(mm)	MAX.	(in)	(mm)	
VE1875	19000 - 21000	8618 - 9525	100	6.500	165.1	7.500	190.5	5/8" - 11	3.000	4.250	76.20	107.95	9.00	228.60	VE1875-4090
									4.000	5.250	101.60	133.35	10.00	254.00	VE1875-4100
									5.000	6.250	127.00	158.75	11.00	279.40	VE1875-4110
									6.000	7.250	152.40	184.15	12.00	304.80	VE1875-4120
									7.000	8.250	177.80	209.55	13.00	330.20	VE1875-4130
									8.000	9.250	203.20	234.95	14.00	355.60	VE1875-4140
									9.000	10.250	228.60	260.35	15.00	381.00	VE1875-4150
									10.000	11.250	254.00	285.75	16.00	406.40	VE1875-4160
									11.000	12.250	279.40	311.15	17.00	431.80	VE1875-4170
									12.000	13.250	304.80	336.55	18.00	457.20	VE1875-4180
									13.000	14.250	330.20	361.95	19.00	482.60	VE1875-4190

- Step 4:** Do you need Bolt insulation?
No = 0 and yes = 4
- Step 5:** Place your part number in this format.



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