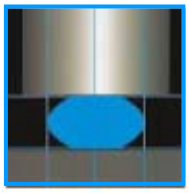
RADIAFLEX



DESCRIPTION

A bonded, metal to elastomer sandwich, designed to be an easy to install, flexible mounting attachment or bumper stop, end-of-run-device. Radiaflex series mounts provide an affordable low frequency mount designed for easy installation. They are available in various shapes and load ratings mount.

CHARACTERISTICS

- Natural frequency: 6.5 Hz -28 Hz with average <12 Hz.
- Structural Material: Mild Steel, plated.
- Resilient Element Material: Natural rubber, bonded to steel
- Shapes: Cylindrical, Conical or Diabolo (Pinched Waist).
- Attachment Method: 5 styles; 1. M/0 , Single Sided Threaded Stud; 2. F/0 Single Sided Threaded Hole; 3. M/M Double Sided Threaded Studs; 4. F/F, Double Sided Threaded Holes; 5. M/F, Threaded Stud/Threaded Hole Combination.

The design of the RADIAFLEX mounts and stops gives the following basic characteristics:

- Radial elasticity greater than axial elasticity.
- Elastomer loading can be:
  - compression (axial).
  - shear (radial).
  - compression/shear (tangential) according to the attachment orientation.
- Highly deformable allowing high levels of attenuation or isolation.
- Progressive attenuation of energy from to the design of the shape(s).

ADVANTAGES

- Simple to install.
- Economical.
- Extensive range including metric and SAE threads
- Compared to rigid stops, RADIAFLEX stops make for quiet operation and limit hammering related degradation of equipment.

APPLICATION AND INSTALLATION RECOMENDATIONS

- Loading of the elastomer section in shear provides very good isolation provided that the radial forces in the mount do not over strain the elastomer or the bonding surfaces.
- Stops must be installed so the impact force and moving contact surface is perpendicular to the mounting axis of the stop.
- External diameter of the stop will bulge on impact so allow for sufficient space around the stop after installation.

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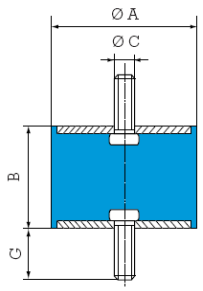
HUTCHINSON® WORLDWIDE

M/M DOUBLE THREADED CYLINDRICAL RADIAFLEX MOUNTS

- Cylindrical Shape - Double Stud, Metric Threads



Dimensions (Defaults are Metric)							Compression (Defaults are Metric)				Shear (Defaults are Metric)				Part Number
Ø A mm	Ø A in	B mm	B in	Ø C	G mm	G in	Max load Kg	Max load Lbs	Deflection mm	Deflection in	Max load Kg	Max load Lbs	Deflection mm	Deflection in	
12.5	.492	10	.394	M5	10	.395	12	26	2	.079	1.4	3	1.5	.059	521293
12.5	.492	15	.591	M5	10	.395	10	22	3	.118	2.7	6	2	.079	521128
16	.630	15	.591	M4	10	.395	20	44	3	.118	2.7	6	2	.079	521651
16	.630	15	.591	M5	12	.472	20	44	3	.118	2.7	6	2	.079	521294
16	.630	20	.787	M5	12	.472	15	33	4	.158	2.7	6	4	.158	521296
20	.788	15	.591	M6	16.5	.650	35	77	3	.118	5	11	2.5	.098	521249
20	.788	20	.787	M6	16.5	.650	30	66	4.5	.177	5	11	3.5	.138	521297
20	.788	30	1.181	M6	16.5	.650	25	55	7	.109	4.5	10	4.5	.177	521319
25.5	1.004	20	.787	M6	18	.709	50	110	2	.079	8.1	18	4	.158	521652
25.5	1.004	30	1.181	M6	18	.709	50	110	7.5	.296	8.1	18	6	.236	521653
25.5	1.004	22	.866	M8	20	.788	50	110	4	.158	8.1	18	4	.158	521251
25.5	1.004	25	.984	M8	20	.788	50	110	5.5	.217	8.1	18	4.5	.177	521342
25.5	1.004	30	1.181	M8	20	.788	50	110	7.5	.296	8.1	18	6	.236	521343
30	1.181	22	.866	M8	25	.984	80	177	5	.197	11	24	4	.158	521310
30	1.181	30	1.181	M8	25	.984	70	155	8	.315	11	24	6	.236	521312
30	1.181	40	1.575	M8	25	.984	60	132	9	.354	11	24	7.5	.295	521314
40	1.575	30	1.181	M8	20	.788	150	331	6	.236	20	44	5.5	.217	521181
40	1.575	40	1.575	M8	20	.788	120	265	10	.395	20	44	7.5	.295	521657
40	1.575	28	1.575	M10	25	.984	150	331	6	.236	20	44	5.5	.217	521401
40	1.575	40	1.575	M10	25	.984	120	265	10	.395	20	44	7.5	.295	521454
50	1.967	35	1.378	M10	25	.984	250	552	8	.315	25	55	7	.276	521581
50	1.967	45	1.771	M10	25	.984	190	420	11	.433	25	55	9	.354	521582
60	2.362	36	1.417	M10	25	.984	300	662	8	.318	30	66	7	.109	521603
60	2.362	45	1.771	M10	25	.984	250	552	11	.433	30	66	9	.354	521641
70	2.756	50	1.967	M10	25	.984	350	773	11	.433	35	77	11	.433	521710
70	2.756	70	2.756	M10	25	.984	300	662	14	.551	35	77	15	.591	521711
80	3.150	40	1.575	M12	28	1.102	600	1325	9	.354	40	88	7	.109	521658
100	3.937	55	2.165	M16	47	1.850	900	1987	12	.472	60	132	10	.395	521909
100	3.937	80	3.150	M16	47	1.850	750	1656	19	.748	60	132	17	.669	521910

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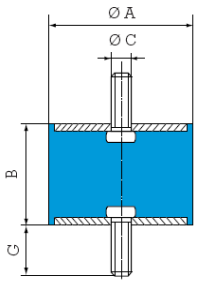
M/M DOUBLE THREADED CYLINDRICAL RADIAFLEX MOUNTS (CONT.)

- Cylindrical Shape – Double Stud, US/SAE Threads



Dimensions				Compression		Shear		Part Number
Ø A "	B "	Ø C	G "	Max load Lbs	Natural frequency - Hz	Max load Lbs	Natural frequency - Hz	
0.25	0.28	#4-40	0.19	1	9	2	8	A76-041
0.375	0.625	#8-32	0.375	2	20	5	18	A88-041
0.438	0.5	#8-32	0.375	10.3	14	5.5	10	A00-051
0.438	0.5	#8-32	0.375	4.8	14	2.5	9	A00-031
0.438	0.438	#6-32	0.25	4	13.5	1	12	A07-041
0.438	0.438	#8-32	0.25	4	13.5	1	12	A07-042
0.563	0.5	#8-32	0.375	14	12.5	7	11	A10-041
0.563	0.5	#10-32	0.375	14	12.5	7	11	A10-042
0.75	0.625	#10-32	0.375	18	11	3	9.5	A98-041
1	0.25	0.250-20	0.5	60	25	15	28	A25-041
1	0.5	0.250-20	0.75	60	14	20	10	A20-041
1	0.531	0.250-20	0.5	55	13	23	7.5	A21-141
1	0.75	0.250-20	0.625	90	14	50	10	A22-071
1	0.75	0.250-20	0.75	40	11	10	13	A22-041
1	0.75	0.250-20	0.5	50	10	14	7.5	A22-141
1	0.75	0.250-20	0.5	44	10	11.5	7.5	A22-131
1	0.75	0.312-18	0.75	70	12	35	10	A22-062
1	0.75	0.312-18	0.562	50	10	14	7.5	A22-142
1	0.75	6mm	0.5	60	10	33	8	A22-053
1	1	0.250-20	0.75	35	9	8	8	A23-042
1	1	0.312-18	0.625	35	9	8	8	A23-041
1	1	0.312-18	0.562	35	10	12	7.5	A23-141
1.25	0.75	0.312-18	0.562	98	10	31	7.5	A32-151
1.25	1.25	0.312-18	0.562	76	10	13.5	7.5	A34-141
1.375	1	0.375-16	0.75	70	12	40	9	A43-042
1.375	1	0.312-18	0.562	96	10	32	7.5	A43-151
1.5	1	0.375-16	1	150	9	40	6.5	A53-061

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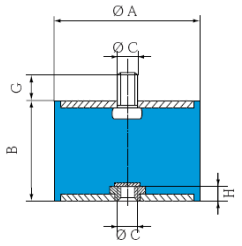
M/F DOUBLE THREADED CYLINDRICAL RADIAFLEX MOUNTS

- Cylindrical Shape – Combination Stud and Hole, Metric Threads



Dimensions (Defaults are Metric)									Compression (Defaults are Metric)				Shear (Defaults are Metric)				Part Number
Ø A mm	Ø A in	B mm	B in	Ø C	G mm	G in	H mm	H in	Max load Kg	Max load Lbs	Deflection mm	Deflection in	Max load Kg	Max load Lbs	Deflection mm	Deflection in	
16	.623	15	.591	M4	10	.394	2	.079	20	44	3	.118	2.7	6	2	.079	520054
16	.623	15	.591	M5	12	.472	3	.118	20	44	3	.118	2.7	6	2	.079	520011
16	.623	20	.787	M5	12	.472	3	.118	15	33	4	.158	2.7	6	4	.158	520012
20	.787	15	.591	M6	16.5	.650	4	.158	35	77	3	.118	5	11	2.5	.984	520015
20	.787	20	.787	M6	16.5	.650	4	.158	30	66	4.5	.177	5	11	3.5	1.378	520016
20	.787	30	1.181	M6	16.5	.650	4	.158	25	55	7	.276	4.5	10	4.5	.177	520018
25.5	1.004	20	.787	M6	18	.709	4	.158	50	110	2	.079	8	18	4	.158	520055
25.5	1.004	30	1.181	M6	18	.709	4	.158	50	110	7.5	.295	8	18	6	.236	520057
25.5	1.004	22	.866	M8	20	.787	6	.236	50	110	4	.158	8	18	4	.158	520021
25.5	1.004	25	.984	M8	20	.787	6	.236	50	110	5.5	.217	8	18	4.5	.177	520022
25.5	1.004	30	1.181	M8	20	.787	6	.236	50	110	7.5	.295	8	18	6	.236	520023
30	1.181	22	.866	M8	25	.984	6	.236	80	177	5	.197	11	24	4	.158	520026
30	1.181	30	1.181	M8	25	.984	6	.236	70	155	8	.315	11	24	6	.236	520027
30	1.181	40	1.575	M8	25	.984	6	.236	60	132	9	.354	11	24	7.5	.295	520028
40	1.575	30	1.181	M8	20	.787	6	.236	150	331	6	.236	20	44	5.5	.217	520056
40	1.575	40	1.575	M8	20	.787	6	.236	120	265	10	.394	20	44	7.5	.295	520058
40	1.575	28	1.102	M10	25	.984	8	.315	150	331	6	.236	20	44	5.5	.217	520030
40	1.575	40	1.575	M10	25	.984	8	.315	120	265	10	.394	20	44	7.5	.295	520032
50	1.969	35	1.378	M10	25	.984	8	.315	250	552	8	.315	25	55	7	.276	520035
50	1.969	45	1.772	M10	25	.984	8	.315	190	420	11	.433	25	55	9	.354	520036
60	2.362	36	1.417	M10	25	.984	8	.315	300	662	8	.315	30	66	7	.276	520038
60	2.362	45	1.772	M10	25	.984	8	.315	250	552	11	.433	30	66	9	.354	520039
70	2.756	50	1.969	M10	25	.984	9	.354	350	773	11	.433	35	77	11	.433	520041
70	2.756	70	2.756	M10	25	.984	9	.354	300	662	14	.551	35	77	15	.590	520042
80	3.150	40	1.575	M12	28	1.102	10	.395	600	1325	9	.354	40	88	7	.276	520059
100	3.937	55	2.165	M16	47	1.850	14	.551	900	1987	12	.472	60	132	10	.394	520101
100	3.937	80	3.150	M16	47	1.850	14	.551	750	1656	19	.748	60	132	17	.669	520102
100	3.937	100	3.973	M16	47	1.850	14	.551	600	1325	23	.906	60	132	20	.787	520103

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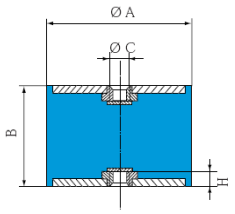
F/F DOUBLE THREADED CYLINDRICAL RADIAFLEX MOUNTS

- Cylindrical Shape - Double Hole, Metric Threads



Dimensions (Defaults are Metric)							Compression (Defaults are Metric)				Shear (Defaults are Metric)				Part Number
Ø A mm	Ø A in	B mm	B in	Ø C	H mm	H in	Max load Kg	Max load Lbs	Deflection mm	Deflection in	Max load Kg	Max load Lbs	Deflection mm	Deflection in	
16	.623	15	.591	M4	2.5	.079	20	44	3	.118	2.7	6	2	.079	520551
16	.623	15	.591	M5	3	.118	20	44	3	.118	2.7	6	2	.079	520501
16	.623	20	.787	M5	3	.118	15	33	4	.158	2.7	6	4	.158	520502
20	.787	15	.591	M6	4	.158	35	77	2.5	.118	5	11	2.5	.984	520505
20	.787	20	.787	M6	4	.158	30	66	4.5	.177	5	11	3.5	1.378	520506
20	.787	30	1.181	M6	4	.158	25	55	7	.276	4.5	10	4.5	.177	520508
25.5	1.004	20	.787	M6	4	.158	50	110	3	.079	8	18	4	.158	520554
25.5	1.004	30	1.181	M6	4	.158	50	110	7.5	.295	8	18	6	.236	520555
25.5	1.004	22	.866	M8	6	.236	50	110	3	.158	8	18	4	.158	520511
25.5	1.004	25	.984	M8	6	.236	50	110	4.5	.217	8	18	4.5	.177	520512
25.5	1.004	30	1.181	M8	6	.236	50	110	7.5	.295	8	18	6	.236	520513
30	1.181	22	.866	M8	6	.236	80	177	4	.197	11	24	4	.158	520516
30	1.181	30	1.181	M8	6	.236	70	155	7.5	.315	11	24	6	.236	520517
30	1.181	40	1.575	M8	6	.236	60	132	9	.354	11	24	7.5	.295	520518
40	1.575	30	1.181	M8	6	.236	150	331	4.5	.236	20	44	5.5	.217	520552
40	1.575	40	1.575	M8	6	.236	120	265	10	.394	20	44	7.5	.295	520553
40	1.575	28	1.102	M10	8	.315	150	331	4.5	.236	20	44	5.5	.217	520520
40	1.575	40	1.575	M10	8	.315	120	265	10	.394	20	44	7.5	.295	520522
50	1.969	35	1.378	M10	8	.315	250	552	7	.315	25	55	7	.276	520525
50	1.969	45	1.772	M10	8	.315	190	420	10	.433	25	55	9	.354	520526
60	2.362	36	1.417	M10	8	.315	300	662	7	.315	30	66	7	.276	520528
60	2.362	45	1.772	M10	8	.315	250	552	9	.433	30	66	9	.354	520529
70	2.756	50	1.969	M10	9	.354	350	773	9	.433	35	77	11	.433	520531
70	2.756	70	2.756	M10	9	.354	300	662	14	.551	35	77	15	.590	520532
80	3.150	40	1.575	M12	10	.395	600	265	10	.354	40	44	7.5	.276	520556
100	3.937	55	2.165	M16	14	.551	900	1987	12	.472	60	132	10	.394	520542
100	3.937	80	3.150	M16	14	.551	750	1656	19	.748	60	132	17	.669	520543
100	3.937	100	3.973	M16	14	.551	600	1325	23	.906	60	132	20	.787	520547

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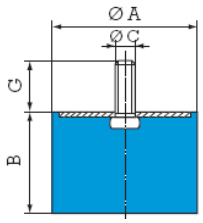
HUTCHINSON® WORLDWIDE

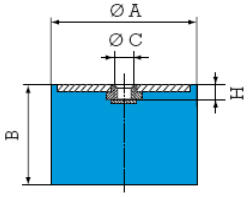
M/0 & F/0 SINGLE THREADED CYLINDRICAL RADIAFLEX BUMPS & STOPS

- Cylindrical Shape - Single Stud, Metric Threads



Dimensions (Defaults are Metric)							Compression (Defaults are Metric)				Part Number
Ø A mm	Ø A in	B mm	B in	Ø C	G mm	G in	Max load Kg	Max load Lbs	Deflection mm	Deflection in	
12.5	.492	10	.394	M5	10	.394	12	26	2	.079	511110
12.5	.492	15	.591	M5	10	.394	10	22	3	.118	511115
16	.630	15	.591	M4	10	.394	20	44	3	.118	511151
16	.630	15	.591	M5	12	.472	20	44	3	.118	511294
16	.630	20	.787	M5	12	.472	15	33	4	.158	511296
20	.787	15	.591	M6	16.5	.650	35	77	4	.158	511215
20	.787	20	.787	M6	16.5	.650	30	66	5	.197	511220
20	.787	30	1.181	M6	16.5	.650	25	55	7	.276	511230
25.5	1.004	20	.787	M6	18	.709	50	110	5	.197	511159
25.5	1.004	30	1.181	M6	18	.709	50	110	8	.315	511160
25.5	1.004	22	.866	M8	20	.787	50	110	5.5	.217	511275
25.5	1.004	25	.985	M8	20	.787	50	110	6	.236	511280
25.5	1.004	30	1.181	M8	20	.787	50	110	8	.315	511285
30	1.181	22	.866	M8	25	.985	80	177	6	.236	511310
30	1.181	30	1.181	M8	25	.985	70	155	8	.315	511312
30	1.181	40	1.575	M8	25	.985	60	132	9	.354	511314
40	1.575	30	1.181	M8	20	.787	120	265	7	.276	511157
40	1.575	40	1.575	M8	20	.787	120	265	10	.394	511161
40	1.575	25	.985	M10	25	.985	730	331	6	.236	511401
40	1.575	40	1.575	M10	25	.985	120	265	10	.394	511454
50	1.969	35	1.378	M10	25	.985	250	552	9	.354	511535
50	1.969	45	1.772	M10	25	.985	190	420	11	.433	511545
60	2.362	36	1.417	M10	25	.985	300	662	9	.354	511635
60	2.362	45	1.772	M10	25	.985	250	552	11	.433	511645
70	2.756	50	1.969	M10	25	.985	350	773	12	.472	511750
70	2.756	70	2.756	M10	25	.985	300	662	14	.551	511770

- Cylindrical Shape - Single Threaded Hole, Metric Threads



Dimensions							Compression				Part Number
Ø A mm	Ø A in	B mm	B in	Ø C	H mm	H in	Max load Kg	Max load lbs	Deflection mm	Deflection in	
16	.630	15	.590	M4	2.5	.984	20	44	3	.118	511153
20	.787	15	.590	M6	4	.158	35	77	4	.158	511154
25.5	1.004	20	.787	M6	4	.158	280	110	5.5	.217	511162
25.5	1.004	30	1.181	M6	4	.158	280	110	8	.315	511163
30	1.181	22	.866	M8	6	.236	82	180	6	.236	511156

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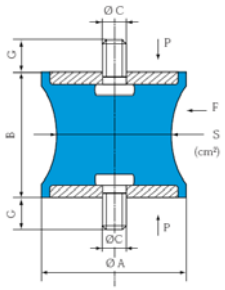
HUTCHINSON® WORLDWIDE

M/M DOUBLE THREADED DIABOLO RADIAFLEX MOUNTS

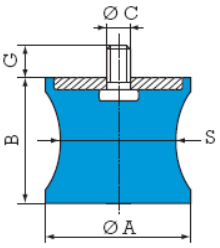
- Diabolo (Pinched Waist) Shape - Double Stud, Metric Threads



Dimensions (Defaults are Metric)									Compression (Defaults are Metric)				Shear (Defaults are Metric)				Part Number
Ø A mm	Ø A in	B mm	B in	Ø C	G mm	G in	ØS mm	ØS in	Max Load Kg	Max load Lbs	Deflection mm	Deflection in	Max load Kg	Max Load Lbs	Deflection mm	Deflection in	
13	.512	14	.551	M5	10	.394	6	.236	3	7	1.4	.055	.45	1	1.2	.047	521300
20	.787	19	.748	M6	17	.669	14	.551	12	26	2.5	.098	.30	6.6	5	.197	521201
40	1.575	28	1.102	M10	25	.984	20	.787	30	66	5	.197	.25	5.5	4.5	.177	521403
57	2.244	44	1.732	M8	20	.787	35	1.378	75	165	5	.197	11.8	26	6	.236	521572
60	2.362	60	2.362	M10	25	.984	50	1.969	150	330	8	.315	30	66	10	.394	521602
95	3.740	76	2.992	M16	45	1.772	80	3.150	400	885	9.5	.374	70	155	8	.315	521951

M/0 & F/0 SINGLE THREADED DIABOLO RADIAFLEX BUMPERS & STOPS

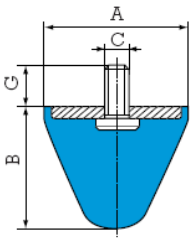
- Diabolo (Pinched Waist) Shape - Single Stud, Metric Threads



Dimensions (Defaults are Metric)									Compression (Defaults are Metric)								Repetitive Shocks (Defaults are Metric)		Weight		Part Number
ØA mm	ØA in	B mm	B in	Ø C	G mm	G in	S mm	S in	Max Load Kg	Max load lbs	Deflection mm	Deflection in	Max Load Kg	Max load lbs	Deflection mm	Deflection in	Energy Joules	Energy Ft. lbs	g	lbs	
57	2.244	44	1.732	M8	20	.788	35	1.378	75	165	5.5	.217	200	440	12	.472	2	1.5	80	.18	511572
60	2.362	57	2.244	M10	25	.984	50	1.969	150	330	8	.315	215	775	15	.590	6	4.4	190	.42	511602
95	3.740	70	2.756	M16	35	1.378	80	3.150	400	885	9.5	.374	1000	2210	18	.709	20	14.8	790	1.74	511951

M/0 & F/0 SINGLE THREADED CONICAL RADIAFLEX BUMPERS & STOPS

- Conical Shape – Single Stud, Metric Thread



Dimensions (Defaults are Metric)							Repetitive Shocks (Defaults are Metric)						Max Shock		Weight		Part Number
Ø A mm	Ø A in	B mm	B in	Ø C	G mm	G in	Energy Joules	Energy Ft. lbs	Max Load Kg	Max load lbs	Deflection mm	Deflection in	Energy Joules	Energy Ft. lbs	g	lbs	
25.5	1.004	19	.748	M8	20	.787	3	2.2	100	220	8	.315	9	6.6	20	.05	512251
30	1.181	30	1.181	M8	25	.984	6	4.4	140	310	15	.590	18	13.3	37	.08	512307
50	1.969	50	1.969	M10	25	.984	30	22	340	750	25	.984	90	66.4	85	.19	512515
50	1.969	64	2.520	M10	25	.984	40	29.5	370	820	32	1.260	120	88.5	150	.33	512516
60	2.362	40	1.575	M10	25	.984	27	20	550	1215	18	.709	70	51.6	140	.33	512608
72	2.835	58	2.283	M12	30	1.181	50	36.9	550	1215	26	1.024	150	110.6	300	.66	512721
95	3.740	80	3.150	M16	45	1.771	120	88.5	1100	2430	37	1.457	350	258.1	750	1.65	512951

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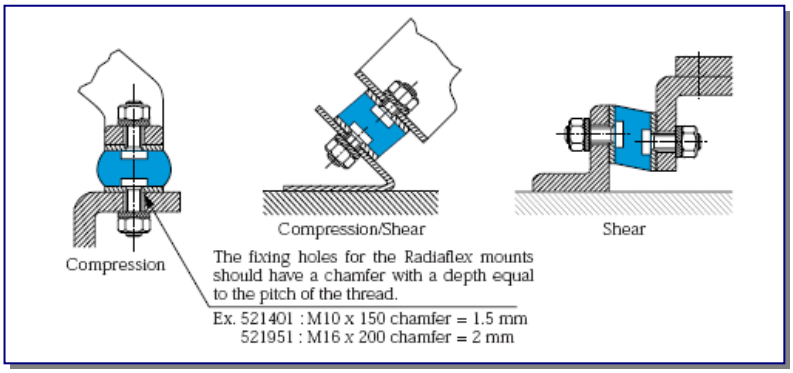
ASSEMBLY AND INSTALLATION OF RADIALFLEX MOUNTS



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