

RADIAFLEX®



DESCRIPTION

- Metalwork : Mild steel, plated.
- Natural rubber, bonded.
- Welded fixings : 4 styles (single sided with screw, screw + screw, screw + nut, nut + nut)

CHARACTERISTICS

The design of the RADIAFLEX mount gives the following basic characteristics :

- Radial elasticity greater than axial elasticity
- The rubber works in :
 - compression (axial).
 - shear (radial).
 - compression/shear, according to the fixing method.

Advantages :

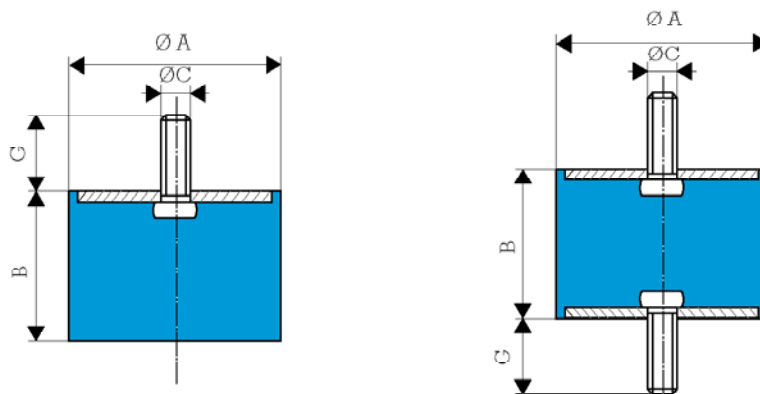
- Simple to fix.
- Simple and economical.
- Extensive range :
 - 11 stud diameters.
 - Several heights for each diameter.
 - 4 methods of fixing.

Recommendation :

- Operation in shear is very useful for vibration isolation provided that the radial forces are not too great.

DIMENSIONS AND COMPRESSIVE LOADS

THREADED STUD FIXING



See Elastomeric range
VIBRACHOC

Ø A mm	B mm	Ø C mm	G mm	Compression		Ref.
				Maximum load daN	Deflection mm	
12.5	10	M5	10	12	2	511110
	13.5			11	2.5	511128
	15			10	3	511116
	20			8	3.5	511125
16	10	M5	12	20	2	511292
	15			20	3	511294
	20			15	4	511296
	25			15	5	511298
20	8.5	M6	16.5	40	1.5	511200
	15			35	4	511216
	20			30	5	511220
	25			30	5.5	511228
20	30	M6	16.5	25	7	511230
	10			80	2	511265
	15			60	3.5	511270
	19			55	4.5	511251
25.5	22	M8	20	50	5.5	511275
	25			50	6	511280
	30			50	8	511285
	40			50	10	511290
30	15	M8	25	90	3.5	511308
	22			80	6	511310
	30			70	8	511312
	40			60	9	511314
40	20	M10	25	160	5	511450
	25			150	6	511401
	35			120	8	511452
	40			120	10	511454
50	25	M10	25	300	6	511525
	35			250	9	511535
	45			190	11	511545
60	22	M10	25	350	3	513601
	25			400	6	511625
	36			300	9	511635
	45			250	11	511645
70	35	M10	25	450	9	511735
	50			350	12	511750
	70			300	14	511770
80	25	M14	45	1100	6	513801
	30			950	8	511830
	40			600	10	511840
	70			500	17	511870
80	80			450	19	511880

Threaded hole fixing on request Ø 12.5.

See current price list for availability of items.

Ø A mm	B mm	Ø C mm	G mm	Compression		Shear*		Ref.
				Max Load daN	Deflect mm	Max Load daN	Deflect mm	
10	8	M3	8	10	1.6	1.25	0.9	**
12	8	M3	8	12	1.2	1.5	0.75	**
12.5	10	M5	10	12	2	1.5	1.5	521293
	15			10	3	2.5	2	521128
	20			8	3.5	2.5	4	521295
16	10	M5	12	20	1.5	2.5	1.5	521292
	15			20	3	2.5	2	521294
	20			15	4	2.5	4	521296
20	8.5	M6	16.5	40	0.6	5	1	521178
	15			35	3	5	2.5	521249
	20			30	4.5	5	3.5	521297
20	25	M6	16.5	30	5.5	4.5	4.5	521299
	30			25	7	4.5	4.5	521319
25.5	10	M8	20	80	1.5	8	1.5	521340
	15			60	2.5	8	2.5	521341
	22			50	4	8	4	521251
25.5	25	M8	20	50	5.5	8	4.5	521342
	30			50	7.5	8	6	521343
	40			50	10	6.5	6	521344
30	15	M8	25	90	3	11	2.5	521308
	22			80	5	11	4	521310
	30			70	8	11	6	521312
40	20	M10	25	160	4	20	3	521450
	25			150	6	20	5.5	521401
	35			120	8	20	6.5	521452
50	25	M10	25	300	6	25	4.5	521580
	35			250	8	25	7	521581
	45			190	11	25	9	521582
60	25	M10	25	400	5	30	4.5	521601
	36			300	8	30	7	521603
	45			250	11	30	9	521641
70	35	M10	25	450	8	25	6.5	521705
	50			350	11	35	11	521710
	70			300	14	35	15	521711
80	30	M14	45	950	7	40	5	521803
	40			950	7	40	5	521840
	70			600	9	40	7	521841
80	80	M14	45	500	17	40	15	521842
	80			450	19	40	17	521843
100	40	M18	47	1100	8	60	7	521908
	55			900	12	60	10	521909
	80			750	19	60	17	521910

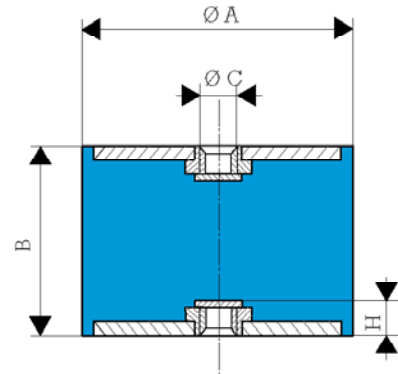
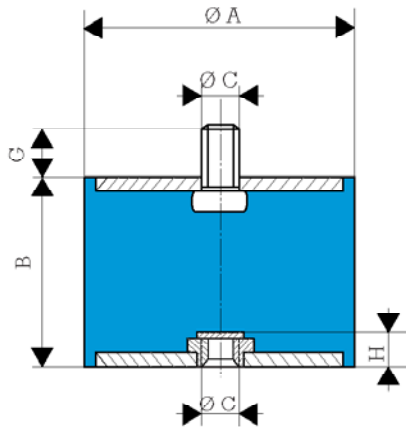
*The shear characteristics are measured under Axial Load.

**See Elastomeric range VIBRACHOC : references E3RP.



COMBINATION FIXING

THREADED HOLE FIXING



Ø A mm	B mm	Ø C mm	G mm	H mm	Compression		Shear*		Ref.
					Max Load daN	Deflect. mm	Max Load daN	Deflect. mm	
16	10	M5	12	3	20	1.5	2.5	1.5	520010*
	15				20	3	2.5	2	520011
	20				15	4	2.5	4	520012
	25				15	5	2	5	520013
20	15	M6	16.5	4	35	2.5	5	2.5	520015
	20				30	4.5	5	5	520016
	25				30	5.5	4.5	4.5	520017
	30				25	7	4.5	4.5	520018
25.5	22	M8	20	6	50	3.5	8	4	520021
	25				50	5	8	4.5	520022
	30				50	7.5	8	6	520023
	40				50	10	6	6	520024
30	15	M8	25	6	90	3	11	2.5	520025
	22				80	4.5	11	4	520026
	30				70	7.5	11	6	520027
	40				60	9	11	7.5	520028
40	20	M10	25	8	160	4	20	3	520029
	28				150	5	20	5.5	520030
	35				120	7.5	20	6.5	520031
	40				120	10	20	7.5	520032
50	35	M10	25	8	250	8	25	7	520035
	45				190	11	25	9	520036
60	36	M10	25	8	300	8	30	7	520038
	45				250	10	30	9	520039
70	35	M10	25	9	450	7.5	35	6.5	520040
	50				350	10	35	11	520041
	70				300	14	35	15	520042
80	40	M14	35	12	600	8	40	7	520044
	70				500	17	40	15	520045
	80				400	19	40	17	520046
100	40	M16	47	14	1100	8	60	7	520100
	55				900	12	60	10	520101
	80				750	12	60	17	520102
	100				600	23	60	20	520103

Ø 16 studs with threaded holes are fitted with RAPID nuts. Maximum torque 1.8 m.N.

* The stud is also available with M4 threads ref. 520051.

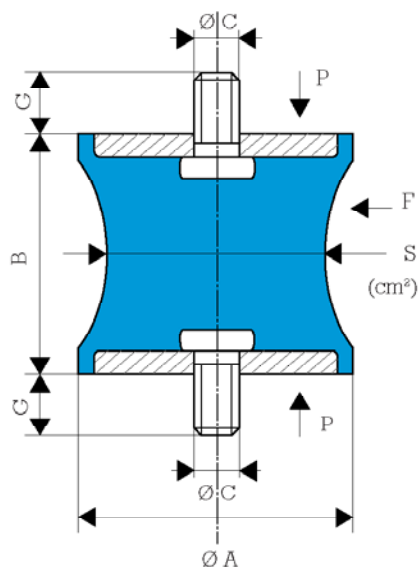
Ø A mm	B mm	Ø C mm	H mm	Compression		Shear*		Ref.
				Max Load daN	Deflect. mm	Max Load daN	Deflect. mm	
16	10	M5	3	20	1.5	2.5	1.5	520500
	15			20	3	2.5	2	520501
	20			15	4	2.5	4	520502
	25			15	5	2	5	520503
20	15	M6	4	35	2.5	5	2.5	520505
	20			30	4.5	5	3.5	520506
	25			30	5.5	4.5	4.5	520507
	30			25	7	4.5	4.5	520508
25.5	22	M8	6	50	3	8	4	520511
	25			50	4.5	8	4.5	520512
	30			50	7.5	8	6	520513
	40			50	10	6	6	520514
30	22	M8	6	80	4	11	4	520516
	30			70	7.5	11	6	520517
	40			60	9	11	7.5	520518
40	28	M10	8	150	4.5	20	5.5	520520
	35			120	7	20	6.5	520521
	40			120	10	20	7.5	520522
	45			120	11	20	9	520523
50	35	M10	8	250	7	25	7	520525
	45			190	10	25	9	520526
60	36	M10	8	300	7	30	7	520528
	45			250	9	30	9	520529
70	35	M10	9	450	7	35	6.5	520530
	50			350	9	35	11	520531
	70			300	14	35	15	520532
80	40	M14	12	600	7	40	7	520534
	70			500	17	40	15	520535
	80			450	19	40	17	520536
100	40	M16	14	1110	8	60	7	520541
	55			900	12	60	10	520542
	60			1100	8	180	10	520545
	75			600	10	140	12	520546
	80			750	19	60	17	520543
	100			600	23	60	20	520547

See current price list for availability of items.

* The shear characteristics are measured under Axial Load.



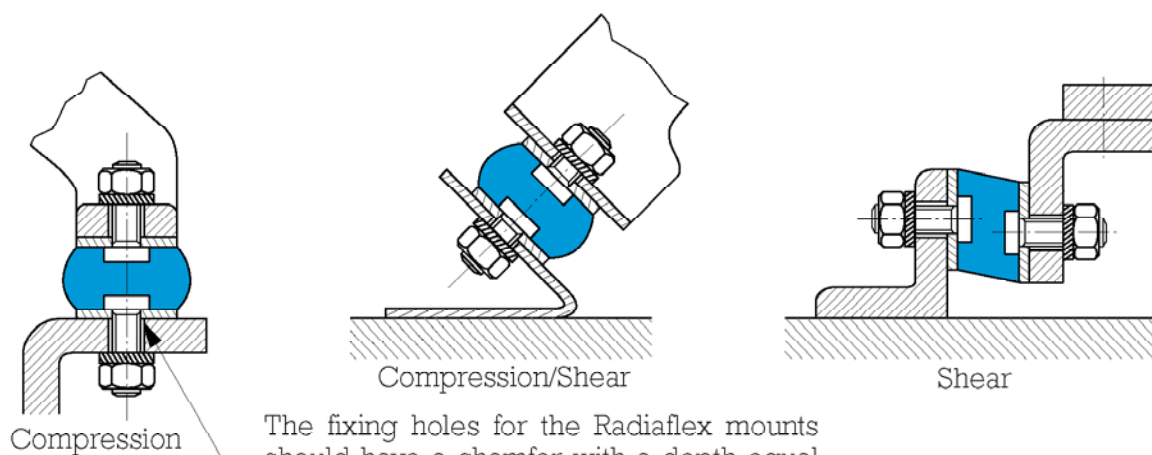
DIABOLO MOUNTS



Ø A mm	B mm	Ø C mm	G mm	S cm²	Weight g	Compression		Shear*		Ref.
						Max Load daN	Defle- ction mm	Max Load daN	Defle- ction m	
12.5	14	M5	10	0.3	5	3	1.4	0.5	1.2	521300
20	19	M6	16.5	1.6	18	12	2.5	3	5	521201
40	28	M10	25	3.1	110	30	5	2.5	4.5	521403
57	44	M8	20	5	150	40	5	7	5	521571
57	44	M8	20	9.5	150	75	5	12	6	521572
60	60	M10	25	19.5	310	150	8	30	10	521602
80	70	M14	35	38.5	780	300	9.5	55	9.5	521801
95	76	M16	45	50	1240	400	9.5	70	8	521951

See current price list for availability of items.

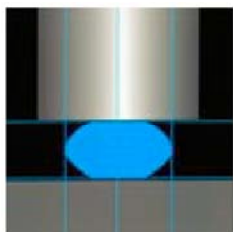
ASSEMBLY



The fixing holes for the Radiaflex mounts should have a chamfer with a depth equal to the pitch of the thread.

Ex. 521 401 : M10 x 150 chamfer = 1.5 mm

521 951 : M16 x 200 chamfer = 2 mm



PAULSTRADYN®

Natural frequency :

- axial 7 Hz
- radial 3 to 5.5 Hz



ADVANTAGES

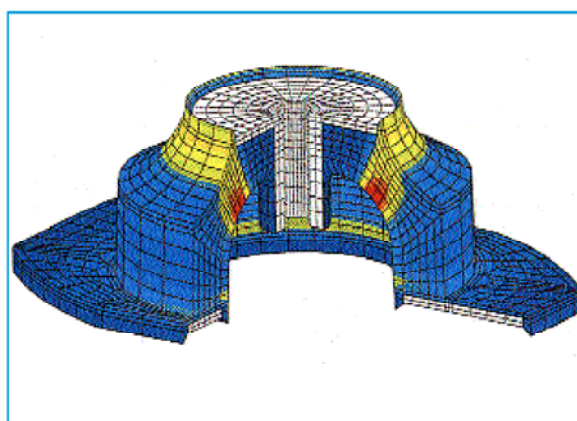
Better than 90% isolation at 1,500 rpm (25 Hz).

Constant height over wide load range.

Stabilised characteristics during Service Life.

Simple to fit.

400 hours protection against salt spray*.



Finite element modeling

New formula SILTECH®

- Low increase of stiffness with frequency
- Low creep

* When mounted according to the recommendations given in the catalogue.

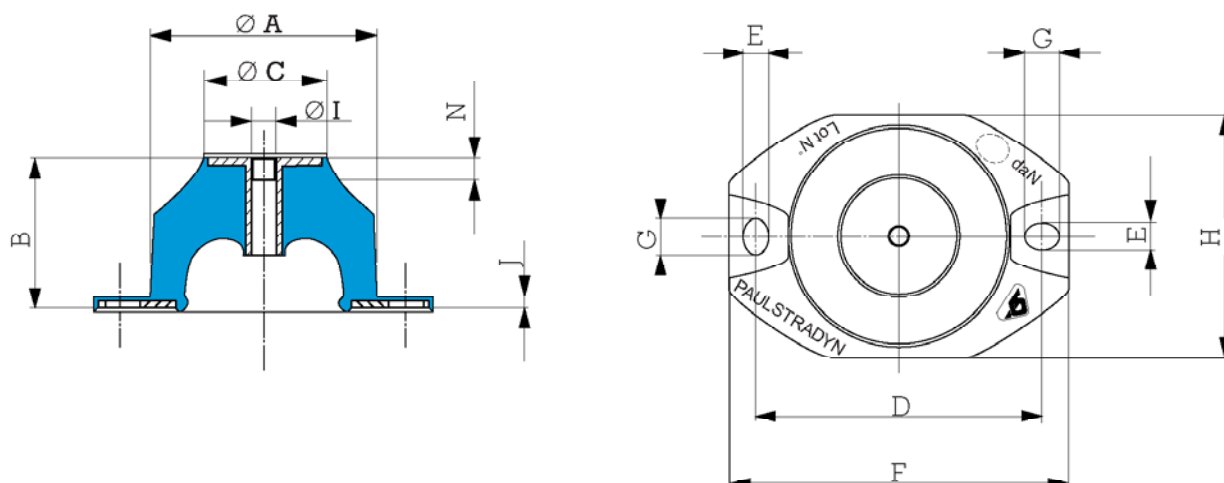


APPLICATIONS

Anti-vibration isolation for static equipment :

- rotating machinery such as fans, air-conditioning, pumps, compressors, generator sets.
- pipework, ceilings, transformers, electrical enclosures.

DIMENSIONS



Designation	Ref.	Nominal load NL (daN)	Dimensions (mm)										
			Ø A	Ø B*	C	D	E	F	G	H	Ø I	J	N
Paulstradyn® 4	533701	4	40	40	M6	52	6.2	64	6.2	44	12	2.5	6
7	533702	7											
12	533703	12											
Paulstradyn® 20	533704	20	60	40	M6	76	6.2	90	8.2	64	32	2.5	6
30	533705	30											
50	533706	50											
Paulstradyn® 70	533707	70	80	40	M8	100	8.2	122	12.2	84	48	2.5	12
100	533708	100											
130	533709	130											
Paulstradyn® 160	533710	160	100	40	M10	124	10.2	152	16.2	104	68	3	10
200	533711	200											
260	533712	260											
Paulstradyn® 325	533713	325	150	40	M12	182	12.2	214	20.2	154	116	4.5	10
400	533714	400											
500	533715	500											
Paulstradyn® 640	533716	640	200	40	M16	240	14.2	280	24.2	204	159	5.5	20
820	533717	820											
1050	533718	1050											
1350	533719	1350											

* : Height, unloaded 40 mm, under load 32 mm (see Technical Characteristics).

NL : Nominal static load with mounting under axial compression



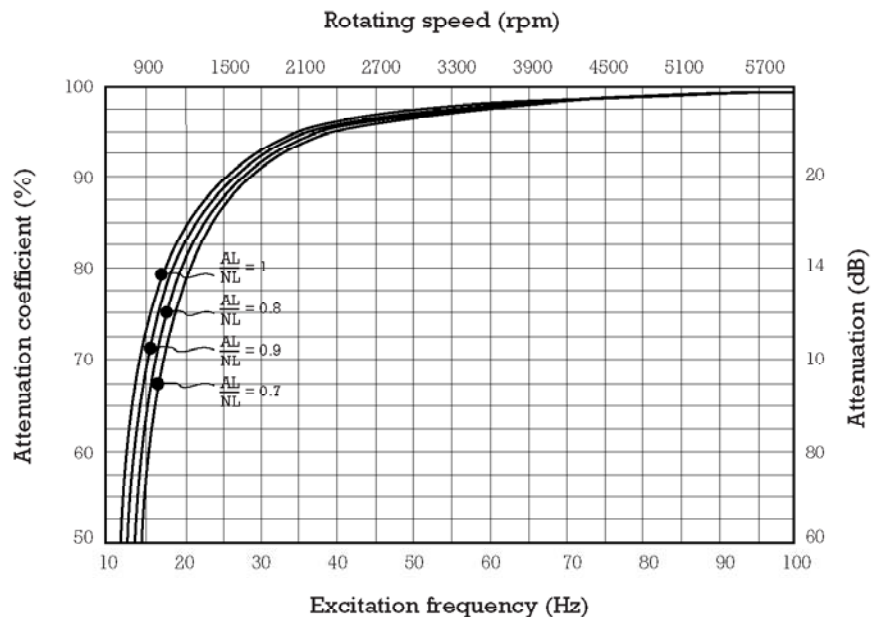
TECHNICAL CHARACTERISTICS

The vibration attenuation and height under nominal load are **stabilised after one month under load at 20°C**.

Common characteristics

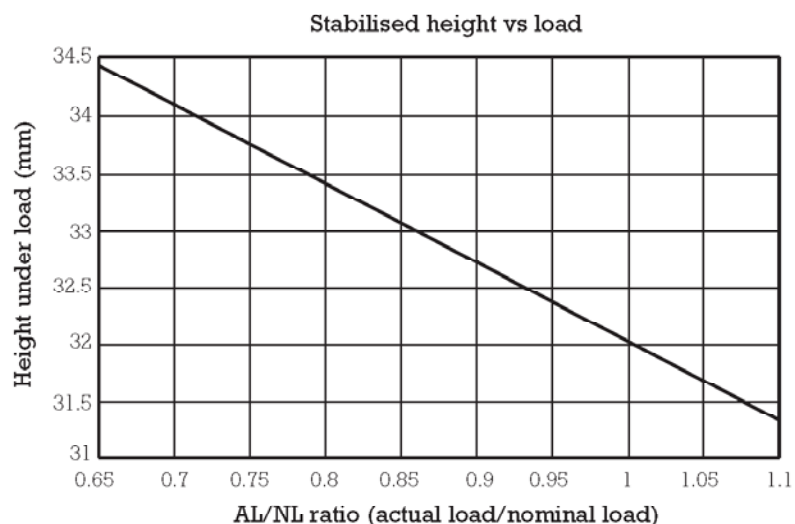
- Natural axial frequency 7 Hz, with nominal load.
- Natural radial frequency 3 to 5.5 Hz.
- Maximum displacement :
 - axial : 12 mm.
 - radial : ± 10 mm.

Attenuation



$$\frac{AL}{NL} = \text{Ratio} \frac{\text{Actual load}}{\text{Nominal load}}$$

Height under load



Temperature

Operating temperature : - 20° C to + 70° C.

Other characteristics*

- Good dynamic performance at high frequency.
- Withstands fatigue and shocks.
- Reduced creep.

* Detailed Technical Characteristics can be sent on request. Ask us for details.

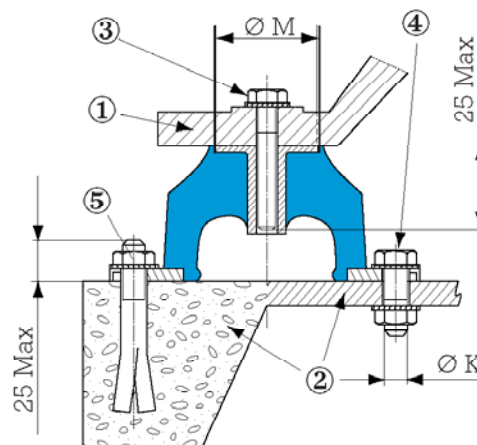


MOUNTING

Standard mounting

- ① machine base or foot
dimensions > $\varnothing M^*$
- ② supporting structure (floor)
dimensions > base of mounting F x H*
- ③ screw $\varnothing C^{**}$
- ④ Screw $\varnothing K$, a washer is required between the screw head and the Paulstradyn®*
- ⑤ screw $\varnothing K$, a washer is required between the screw head and the Paulstradyn®*

Note : * to distribute the load and resist corrosion
** nuts and screws grade 4.6 minimum.



ON CONCRETE

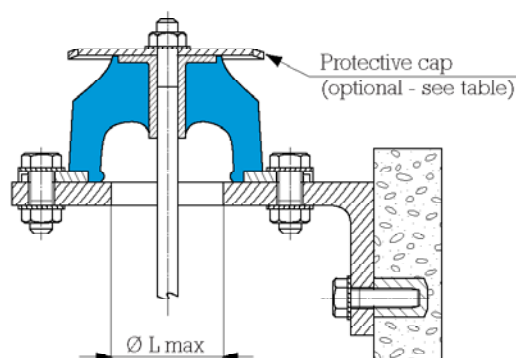
ON CHASSIS

Recommended torque

Diameter K (mm)	M6	M8	M10	M12
torque N.m	2	5	12	20

Note : Do not paint the mountings after fitting.

Alternative mounting



Diameter A	Dimensions (mm)			Cap reference (optional)
	Ø K	Ø L max	Ø M max	
40	M5	27	14	342919
60	M5	40	34	342356
80	M6	46	50	342733
100	M8	47	70	342734
150	M10	99	118	342353
200	M12	127	162	342354