RADIAFLEX ®

DESCRIPTION

Metalwork : mild steel, plated.
Natural rubber, bonded, cylindrically shaped.
Welded fixings : 5 styles (single side threaded stud, single side threaded hole, double threaded stud, double threaded hole,combination fixing).

European thread standards are not always consistent with French thread standards so Paulstra has created the Radiaflex® Europe range based on those standards.
The end stop version is now available with a threaded hole in addition to the threaded stud.

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.

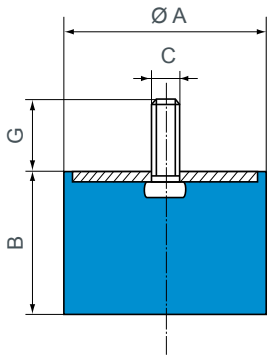
- Extensive range :
  - 13 stud diameters.
  - Several heights for each diameter.
  - 5 methods of fixing.

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

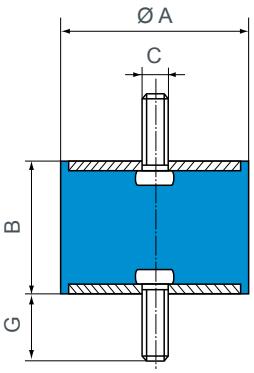
HUTCHINSON® PAULSTRA
PAULSTRA - 61 rue Marius Aufan - 92309 Levallois-Perret Cedex - France - T. +33 1 40 89 53 31 - F. +33 1 47 25 28 96
www.paulstra-industry.com

DIMENSIONS AND COMPRESSIVE LOADS

Single stud fixing



Double stud fixing



Threaded studs

Ø A (mm)	B (mm)	C	G (mm)	Compression		Ref.
				Max. load (daN)	Deflection (mm)	
12,5	10 13,5 15 20	M5	10	12 11 10 8	2 2,5 3 3,5	**511110** **511128** **511115** **511125**
16	10 15	M4	10	20	2 3	**511150** **511151**
	10 15 20 25	M5	12	20 20 15 15	2 3 4 5	**511292** **511294** **511296** **511298**
20	5 8,5	M6	10	77 40	0,6 1,5	**511206** **511200/11**
	8,5 15 20 25 30	M6	16,5	40 35 30 30 25	1,5 4 5 5,5 7	**511200** **511215** **511220** **511225** **511230**
25,5	10 15 20 30	M6	18	80 60 50 50	2 3,5 5 8	**511158** **511155** **511159** **511160**
	5 10 15	M8	20	82 80 60	0,6 2 3,5	**511265/50** **511265** **511270**
	15	M8	12	60	3,5	**511270/13**
	19 22 25 30 40	M8	20	55 50 50 50 50	4,5 5,5 6 8 10	**511251** **511275** **511280** **511285** **511290**
30	15 22 30 40	M8	25	90 80 70 60	3,5 6 8 9	**511308** **511310** **511312** **511314**
40	30 40	M8	20	120 120	7 10	**511157** **511161**
	20 25 35 40 45	M10	25	160 150 120 120 120	5 6 8 10 11	**511450** **511401** **511452** **511454** **511456**
50	25 35 45	M10	25	300 250 190	6 9 11	**511525** **511535** **511545**
60	22 25 36 45	M10	25	350 400 300 250	3 6 9 11	**513601** **511625** **511635** **511645**
70	35 50 70	M10	25	450 350 300	9 12 14	**511735** **511750** **511770**
80	25 30 40 70 80	M14	45 35 35 35 35	1 100 950 600 500 450	6 8 10 17 19	**513801** **511830** **511840** **511870** **511880**

Threaded hole fixing on request (except Ø 12.5).
See current price list for availability of items.

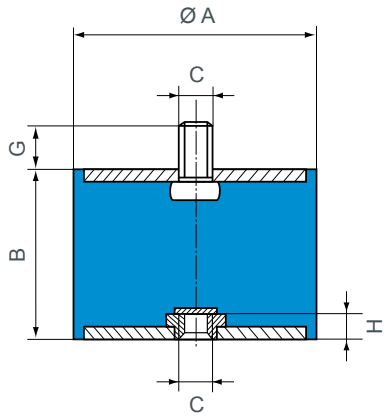
Ø A (mm)	B (mm)	C	G (mm)	Compression		Shear*		Ref.
				Max. load (daN)	Deflection (mm)	Max. load (daN)	Deflection (mm)	
10	8	M3	6	10	1,6	1,25	0,9	**voir p. 115**
12	8	M3	6	12	1,2	1,5	0,75	**voir p. 115**
12,5	10 15 20	M5	10	12 10 8	2 3 3,5	1,5 2,5 2,5	1,5 2 4	**521293** **521128** **521295**
16	10 15	M4	10	20	1,5 3	2,5	1,5 2	**521650** **521651**
	10 15 20 25	M5	12	20 20 15 15	1,5 3 4 5	2,5 2,5 2,5 2	1,5 2 4 5	**521292** **521294** **521296** **521298**
20	8,5 15 20 25 30	M6	16,5	40 35 30 30 25	0,6 3 4,5 5,5 7	5 5 5 4,5 4,5	1 2,5 3,5 4,5 4,5	**521178** **521249** **521297** **521299** **521319**
25,5	10 15 20 30	M6	18	80 60 50 50	1,5 2,5 2 7,5	8 8 8 8	1,5 2,5 4 6	**521655** **521656** **521652** **521653**
	10 15 22 25 30 40	M8	20	80 60 50 50 50 50	1,5 2,5 4 5,5 7,5 10	8 8 8 8 8 6,5	1,5 2,5 4 4,5 6 6	**521340** **521341** **521251** **521342** **521343** **521344**
30	15 22 30 40	M8	25	90 80 70 60	3 5 8 9	11 11 11 11	2,5 4 6 7,5	**521308** **521310** **521312** **521314**
40	30 40	M8	20	150 120	6 10	20 20	5,5 7,5	**521181** **521657**
	20 28 35 40 45	M10	25	160 150 120 120 120	4 6 8 10 11	20 20 20 20 20	3 5,5 6,5 7,5 9	**521450** **521401** **521452** **521454** **521456**
50	25 35 45	M10	25	300 250 190	6 8 11	25 25 25	4,5 7 9	**521580** **521581** **521582**
	45	M10	15	190	11	25	9	**521582/15**
60	25 36 45	M10	25	400 300 250	5 8 11	30 30 30	4,5 7 9	**521601** **521603** **521641**
70	35 50 70	M10	25	450 350 300	8 11 14	35 35 35	6,5 11 15	**521705** **521710** **521711**
80	40	M12	28	600	9	40	7	**521658**
	30 30 40 70 80	M14	45 35 35 35 35	950 950 600 500 450	7 7 9 17 19	40 40 40 40 40	5 5 7 15 17	**521803** **521840** **521841** **521842** **521843**
100	40 55 80	M16	47	1 100 900 750	8 12 19	60 60 60	7 10 17	**521908** **521909** **521910**

* The shear characteristics are measured under Axial Load.

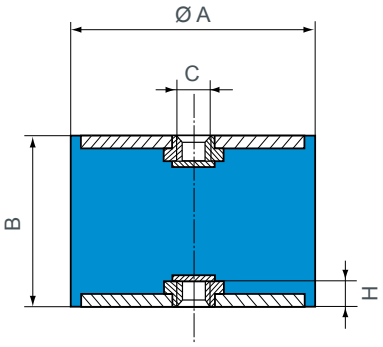
HUTCHINSON® PAULSTRA

PAULSTRA - 61 rue Marius Aufan - 92309 Levallois-Perret Cedex - France - T. +33 1 40 89 53 31 - F. +33 1 47 25 28 96
www.paulstra-industry.com

Combination fixing



Threaded hole fixing



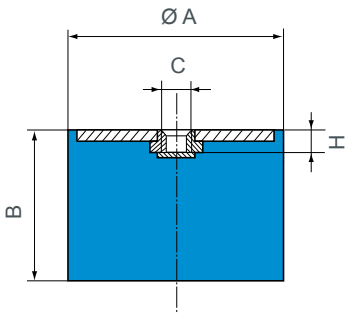
Ø A (mm)	B (mm)	C	G (mm)	H (mm)	Compression		Shear*		Ref.
					Maxi. load (daN)	Deflection (mm)	Max. load (daN)	Deflection (mm)	
16	10 15	M4	10	2	20	1,5 3	2,5	1M5 2M5	520053 520054
	10 15 20 25	M5	12	3	20 20 15 15	1,5 3 4 5	2,5 2,5 2,5 2	1,5 2 4 5	520010 520011 520012 520013
20	15 20 25 30	M6	16,5	4	35 30 30 25	2,5 4,5 5,5 7	5 5 4,5 4,5	2,5 5 4,5 4,5	520015 520016 520017 520018
25,5	15 20 30	M6	18	4	60 50 50	2,5 3,5 7,5	8 8 8	8,5 4 6	520052 520055 520057
	22 25 30 40	M8	20	6	50 50 50 50	3,5 5 7,5 10	8 8 8 6	4 4,5 6 6	520021 520022 520023 520024
30	15 22 30 40	M8	25	6	90 80 70 60	3 4,5 7,5 9	11 11 11 11	2,5 4 6 7,5	520025 520026 520027 520028
40	30 40	M8	20	6	150 120	4,5 10	20 20	5,5 7,5	520056 520058
	20 28 35 40 45	M10	25	8	160 150 120 120 120	4 5 7,5 10 11	20 20 20 20 20	3 5,5 6,5 7,5 9	520029 520030 520031 520032 520033
50	45	M10	15	8	190	11	25	9	520036/15
	35 45	M10	25	8	250 190	8 11	25 25	7 9	520035 520036
60	36 45	M10	25	8	300 250	8 10	30 30	7 9	520038 520039
70	35 50 70	M10	25	9	450 350 300	7,5 10 14	35 35 35	6,5 11 15	520040 520041 520042
80	40	M12	28	10	600	8	40	7	520059
	40 70 80	M14	35	12	600 500 450	8 17 19	40 40 40	7 15 17	520044 520045 520046
100	40 55 80 100	M16	47	14	1 100 900 750 600	8 12 19 23	60 60 60 60	7 10 17 20	520100 520101 520102 520103

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

Ø A (mm)	B (mm)	C	H (mm)	Compression		Shear*		Ref.
				Max. load (daN)	Deflection (mm)	Max. load (daN)	Deflection (mm)	
16	10 15	M4	2,5	20 20	1,5 3	2,5 2,5	1,5 2	520550 520551
	10 15 20 25	M5	3	20 20 15 15	1,5 3 4 5	2,5 2,5 2,5 2	1,5 2 4 5	520500 520501 520502 520503
20	15 20 25 30	M6	4	35 30 30 25	2,5 4,5 5,5 7	5 5 4,5 4,5	2,5 3,5 4,5 4,5	520505 520506 520507 520508
25,5	20 30	M6	4	50 50	3 7,5	8 8	4 6	520554 520555
	22 25 30 40	M8	6	50 50 50 50	3 4,5 7,5 10	8 8 8 6	4 4,5 6 6	520511 520512 520513 520514
30	22 30 40	M8	6	80 70 60	4 7,5 9	11 11 11	4 6 7,5	520516 520517 520518
40	30 40	M8	6	150 120	4,5 10	20 20	5,5 7,5	520552 520553
	28 35 40 45	M10	8	150 120 120 120	4,5 7 10 11	20 20 20 20	5,5 6,5 7,5 9	520520 520521 520522 520523
50	35 45	M10	8	250 190	7 10	25 25	7 9	520525 520526
60	36 45	M10	8	300 250	7 9	30 30	7 9	520528 520529
70	35 50 70	M10	9	450 350 300	7 9 14	35 35 35	6,5 11 15	520530 520531 520532
80	40	M12	10	600	7	40	7,5	520556
	40 70 80	M14	12	600 500 450	7 17 19	40 40 40	7 15 17	520534 520535 520536
100	40 55 60 75 80 100	M16	14	1 110 900 1 100 600 750 600	8 12 8 10 19 23	60 60 180 140 60 60	7 10 10 12 17 20	520541 520542 520545 520546 520543 520547

See current price list for availability of items.
*** Shear characteristics are measured under axial load.**

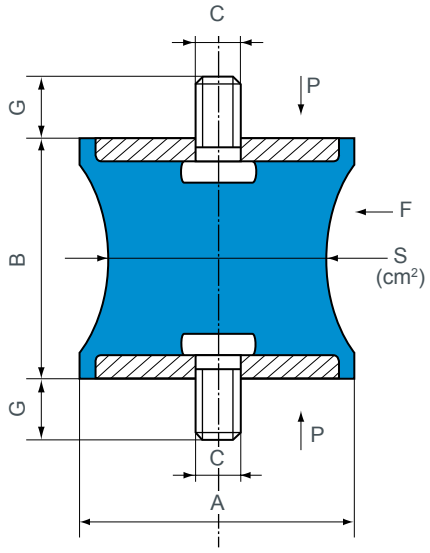
One threaded hole



Ø A (mm)	B (mm)	C	H (mm)	Compression		Ref.
				Maxi. load (daN)	Deflection (mm)	
16	10 15	M4	2,5	20 20	2 3	511152 511153
20	15	M6	4	35	4	511154
25,5	15 20 30	M6	4	60 55 50	3,5 5,5 8	511164 511162 511163
30	22	M8	6	80	6	511156
50	20	M10	10	343	3,4	511168

HUTCHINSON® PAULSTRA
PAULSTRA - 61 rue Marius Aufan - 92309 Levallois-Perret Cedex - France - T. +33 1 40 89 53 31 - F. +33 1 47 25 28 96
www.paulstra-industry.com

Diabolo mounts

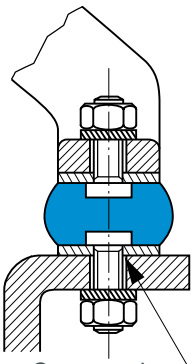


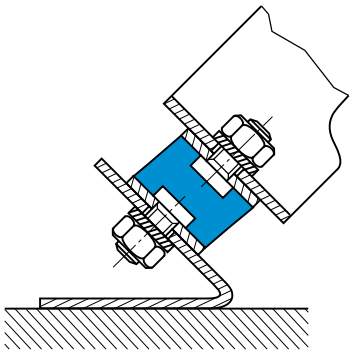
Ø A (mm)	B (mm)	C	G (mm)	S (cm²)	Compression (P)		Shear* (F)		Ref.
					Max. load (daN)	Deflection (mm)	Max. load (daN)	Deflection (mm)	
12,5	14	M5	10	0,3	3	1,4	0,5	1,2	**521300**
20	19	M6	16,5	1,6	12	2,5	3	5	**521201**
40	28	M10	25	3,1	30	5	2,5	4,5	**521403**
57	44	M8	20	5	40	5	7	5	**521571**
57	44	M8	20	9,5	75	5	12	6	**521572**
60	60	M10	25	19,5	150	8	30	10	**521602**
80	70	M14	35	38,5	300	9,5	55	9,5	**521801**
95	76	M16	45	50	400	9,5	70	8	**521951**

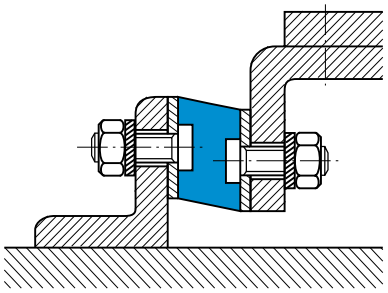
See current price list for availability of items.
* Shear characteristics' are measured under axial load.

Ø A (mm)	B (mm)	C	G (mm)	S (cm²)	Compression (P)		Shear* (F)		Ref.
					Max. load (daN)	Deflection (mm)	Max. load (daN)	Deflection (mm)	
80	60	M14	15,5	38,5	250	5	70	8	**521802**

ASSEMBLY


Compression


Compression/Shear


Shear

The fixing holes for the Radiaflex mounts should have a chamfer with a depth equal to the pitch of the thread.
Ex. **521401** : M10 x 150 chamfer = 1,5 mm
521951 : M16 x 200 chamfer = 2 mm

HUTCHINSON® PAULSTRA
PAULSTRA - 61 rue Marius Aufan - 92309 Levallois-Perret Cedex - France - T. +33 1 40 89 53 31 - F. +33 1 47 25 28 96
www.paulstra-industry.com