S.C. MOUNTS

Natural frequency : (1)
6 to 30 Hz





DESCRIPTION

The S.C. mount comprises an annular section bonded between the inner tube and outer housing. The outer housing has a mounting flange (four different types).

OPERATION

The design of the S.C. mount gives the following basic characteristics :

- axial elasticity four times higher than radial elasticity;
- the rubber works in shear;
- progressive buffer against shocks or accidental overload, provided that a large metal washer is used to bear against the rubber dome;
- can be used as a fail safe assembly when fitted as in shape 1.

Advantages

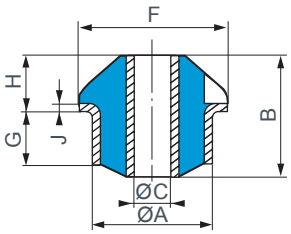
- Extensive range: three hardnesses of rubber for 20 existing types, allowing the mounting to be opti mised as a function of the load and exciting frequency.

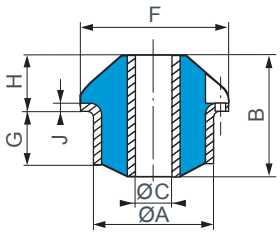
Recommendations

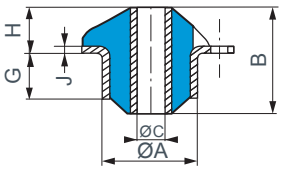
- In order not to affect the performance of the mounting system, all external connections must be flexible.
- S.C. mounts must be fitted so that the vibration input is in the axial direction.

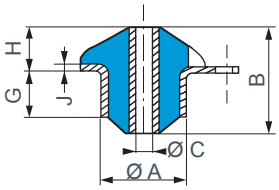
1) the indicated natural frequency, are valid for the maxi loads of the ranges of use quoted in the paragraph : TECHNICAL CHARACTERISTICS.

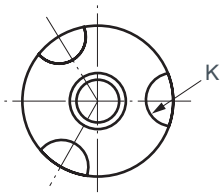
DIMENSIONS



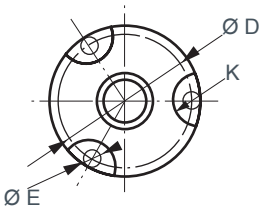




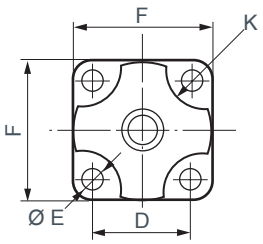




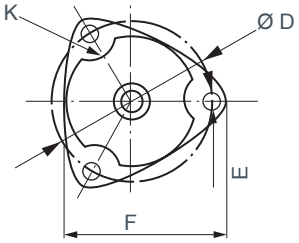
Shape A



Shape B



Shape C



Shape D

Type	Reference				Ø A (mm)	B (mm)	Ø C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)	Weight (g)
	With fixing holes		Without fixing holes												
S.C. 000	**531201**	Shape C	-	-	20	11	6,2	19	3,2	25	3	7	1	4	8
S.C. 00	**531301**	Shape C	-	-	26	28	8	26	5,2	36	12,5	11,5	1,5	12	40
S.C. 01	-	-	**531401**	Shape A	37,5	40	12,1	-	-	48	18	18	2	8	110
S.C. 02	-	-	**531402**	Shape A	37,5	51	12,1	-	-	48	24	18	2	8	130
S.C. 10	**531216**	Shape D	-	-	49,1	47	12,2	69	8,2	72	20	18	2	12	190
S.C. 11	**531611**	Shape D	-	-	49,1	60	12,2	69	8,2	72	31	18	2	12	290
S.C. 20	-	-	**531701**	Shape A	55,7	55	18,2	-	-	70	27	19	3	10	370
S.C. 21	-	-	**531702**	Shape A	55,7	70	18,2	-	-	70	39	19	3	18	480
S.C. 21	**531240**	Shape D	-	-	57,2	70	18,2	86	10,5	90	39	19	3	18	500
S.C. 30	**531259**	Shape B	-	-	65	75	20,2	78	8,5	90	29	28	3	18	560
S.C. 31	**531261**	Shape D	-	-	66,5	93	20,2	95	8,5	107	47	28	3	18	780
S.C. 40	**531714**	Shape D	-	-	76	90	22,2	100	8,5	112	41,5	28,5	3	18	880
S.C. 41	**531327**	Shape D	-	-	76	110	22,2	100	8,5	112	49	28,5	3	18	960
S.C. 41	-	-	**531902**	Shape A	74	110	22,2	-	-	100	49	28	3	18	960
S.C. 50	**531939**	Shape D	-	-	87,5	100	40,2	114	8,5	127	47	33	3	20	1300
S.C. 51	**531947**	Shape B	**531912**	-	86	120	40,2	104	10,5	120	63	33	3	20	1500
S.C. 70 Réd.	**531933**	Shape B	-	-	118	98	60,2	145	10,5	164	36	46	4	22	2200
S.C. 70	**531932**	Shape B	-	-	118	140	60,2	145	10,5	164	66	46	4	22	3000
S.C. 71	**531931**	Shape B	-	-	118	170	60,2	145	10,5	164	96	46	4	22	3800
S.C. 80	**531940**	Shape B	-	-	170	167	80	204	12,2	230	95	53	5	30	7100
S.C. 81	**531941**	Shape B	-	-	170	185	80	204	12,2	230	113	53	5	30	7700

See current price list for availability of items.

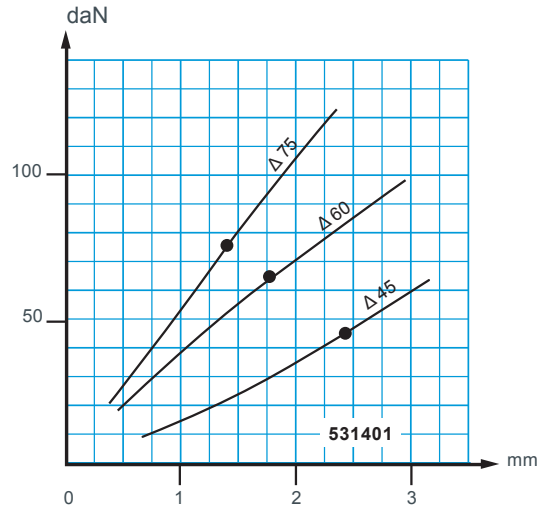
TECHNICAL CHARACTERISTICS

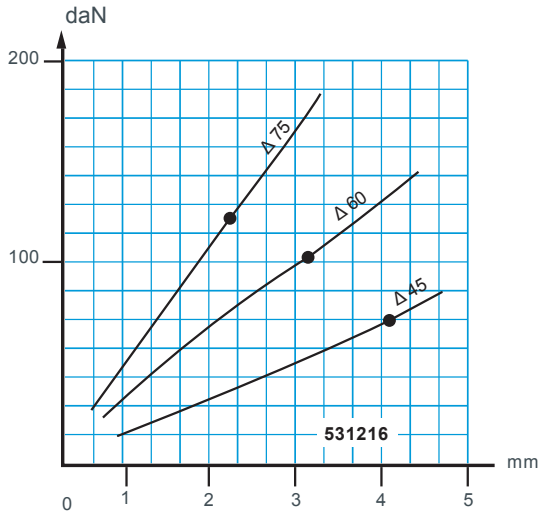
Nominal static load (daN)	Deflect. (mm)	Reference	Hard. Shore A
1-6	1	**531201**	45
2-8	0,8	**531201**	60
2-10	0,5	**531201**	75
5-20	1,5	**531301**	45
7-30	1,2	**531301**	60
10-40	0,8	**531301**	75
10-50	2,5	**531401**	45
15-65	1,8	**531401**	60
15-65	2,5	**531402**	45
15-70	4	**531216**	45
20-80	1,5	**531401**	75
20-85	1,8	**531402**	60
20-85	4	**531611**	45
20-85	3	**531216**	60
25-100	3,5	**531701**	45
25-100	1,5	**531402**	75
25-110	2	**531216**	75
30-120	3	**531611**	60
30-135	3,5	**531240**	45
30-135	3,5	**531702**	45
35-150	1,5	**531611**	75

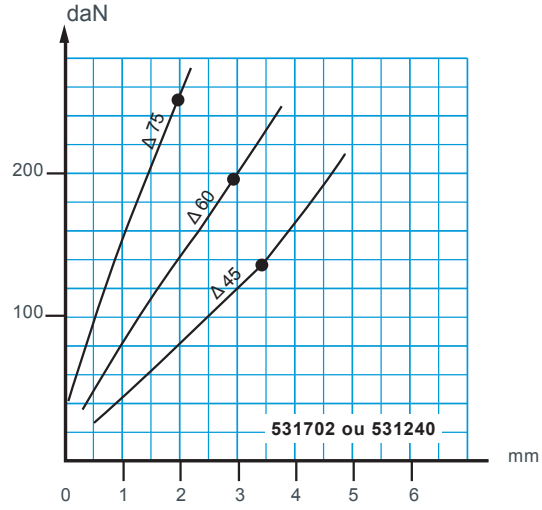
Nominal static load (daN)	Deflect. (mm)	Reference	Hard. Shore A
35-150	3	**531701**	60
40-175	5	**531259**	45
45-180	2	**531701**	75
45-190	3	**531240**	60
45-190	3	**531702**	60
55-225	5	**531714**	45
60-240	3,5	**531259**	60
60-250	2	**531240**	75
60-250	2	**531702**	75
60-250	5	**531261**	45
60-250	5	**531327**	45
60-250	5	**531902**	45
75-300	2	**531259**	75
80-320	4,5	**531714**	60
80-325	4,5	**531939**	45
85-350	3,5	**531261**	60
90-360	4,5	**531327**	60
90-360	4,5	**531902**	60
95-380	3	**531714**	75
100-400	4,5	**531947**	45
105-420	2	**531261**	75

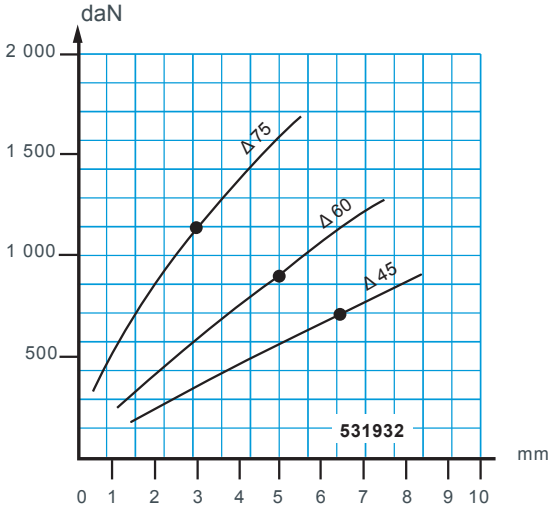
Nominal static load (daN)	Deflect. (mm)	Reference	Hard. Shore A
110-450	3,5	**531939**	60
110-450	3	**531327**	75
110-450	3	**531902**	75
110-450	6,5	**531933**	45
135-550	2,5	**531939**	75
135-550	3,5	**531947**	60
150-600	5	**531933**	60
165-670	2,5	**531947**	75
175-700	6,5	**531932**	45
210-850	6,5	**531931**	45
225-900	5	**531932**	60
275-1100	3	**531932**	75
275-1100	5	**531931**	60
310-1250	11	**531940**	45
350-1400	3	**531931**	75
400-1600	11	**531941**	45
450-1800	8,5	**531940**	60
525-2100	8,5	**531941**	60
575-2300	5	**531940**	75
650-2600	5	**531941**	75

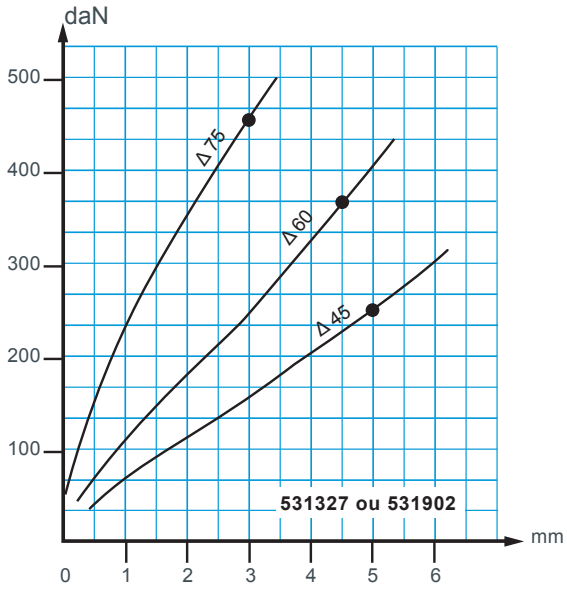
LOAD/DEFLECTION CURVES IN AXIAL COMPRESSION

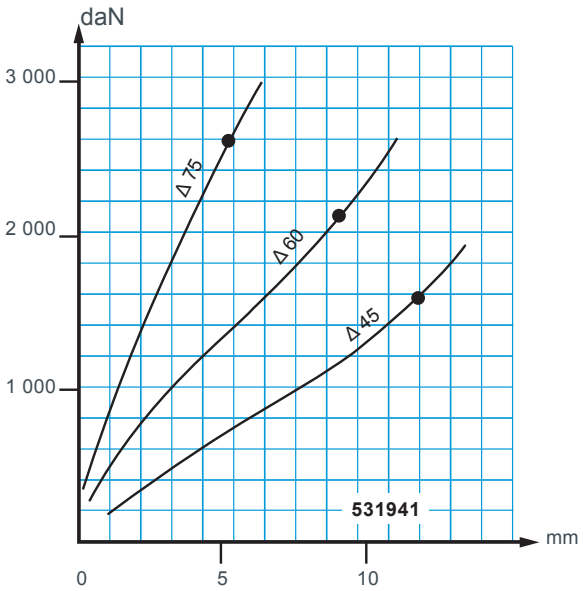






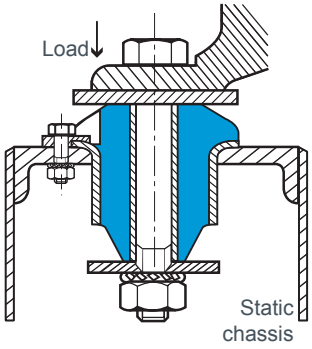




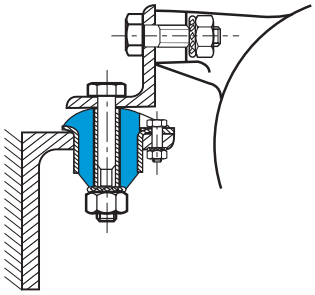


ASSEMBLY

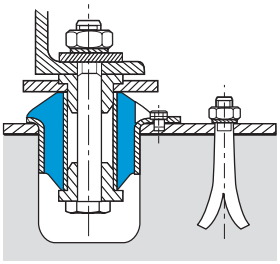
Exemples of installations



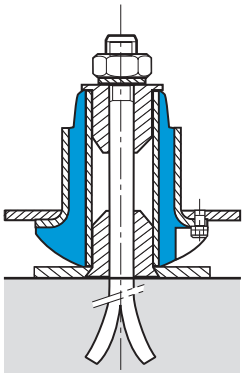
Shape 1 - Fixing between the equipment and a metallic chassis (failsafe in mobile applications).



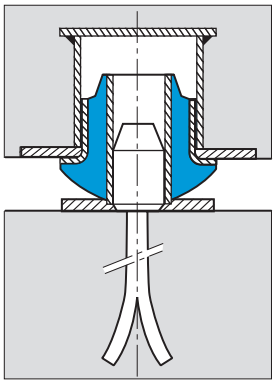
Shape 2 - Fixing between two brackets onto a vertical surface (non failsafe).



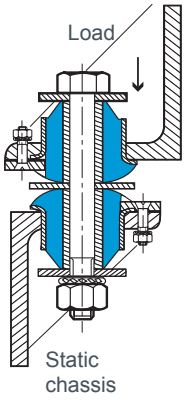
Shape 3 - Fixing between the equipment and concrete (using locating rings).



Shape 4



Shape 5



Shape 6 - Two mounts fixed face to face. Provides twice the deflection under the same load.