

S.C. MOUNTING



(1) Natural frequency :
6 to 30 Hz

DESCRIPTION

The S.C. mounting comprises an annular section bonded between the inner tube and outer housing.
The outer housing has a mounting flange (4 different types).

OPERATION

The design of the S.C. mounting 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 figure 1.

Advantages :

- Extensive range : 3 hardnesses of rubber for 20 existing types, allowing the mounting to be optimised 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. mountings must be fitted so that the vibration input is in the axial direction.

(1) Natural frequencies with max/min loads, see : OPERATING CHARACTERISTICS.

DIMENSIONS

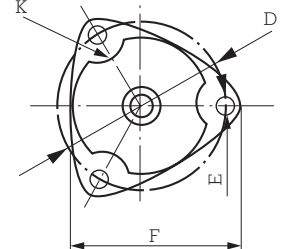
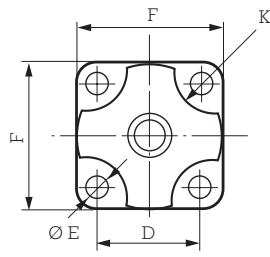
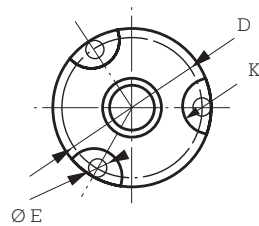
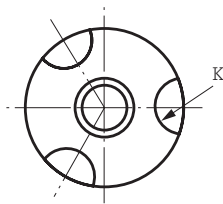
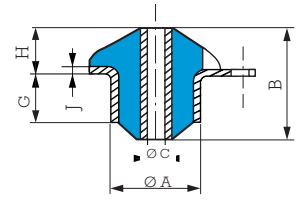
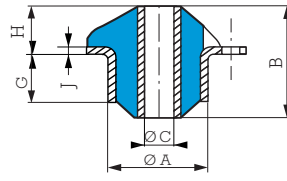
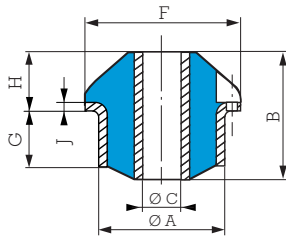
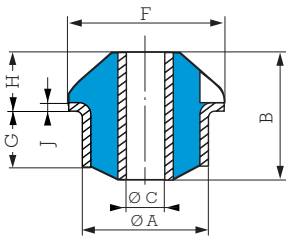


Fig. a

Fig. b

Fig. c

Fig. d

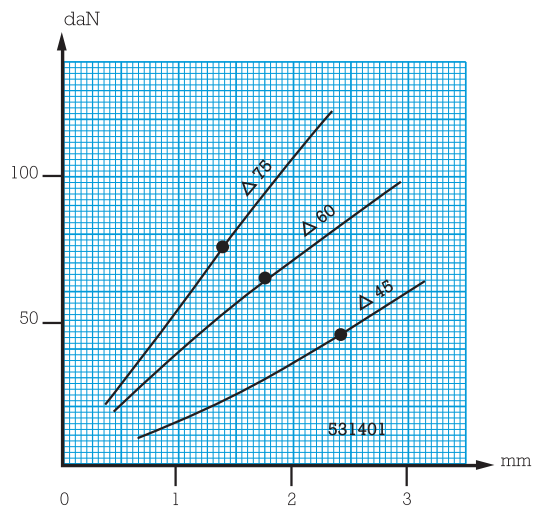
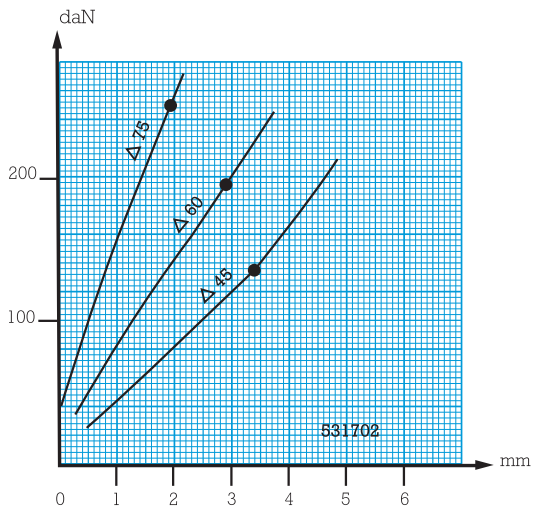
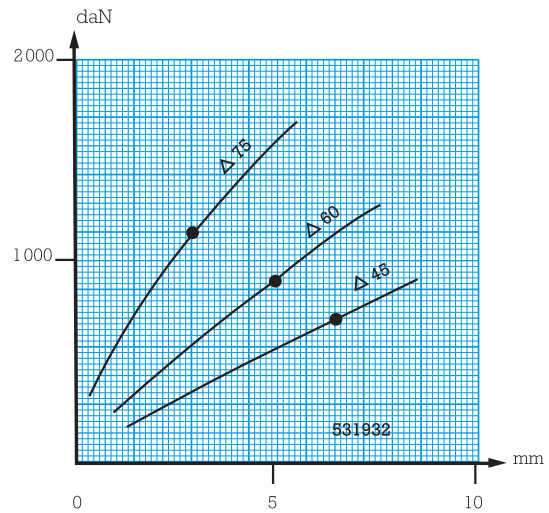
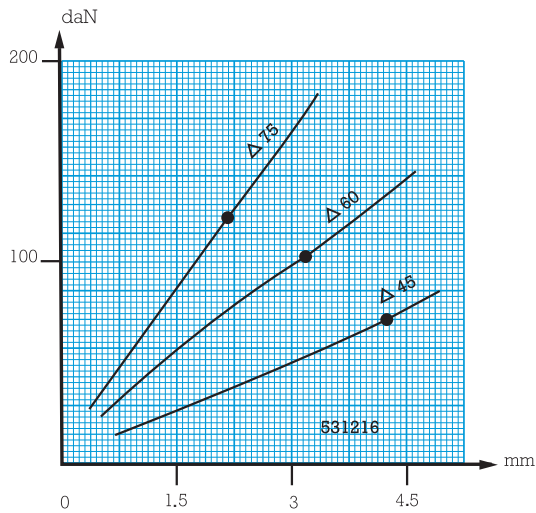
TYPE	Reference				Ø A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	Weight g
	With fixing holes		Without fixing holes												
S.C. 000	531201	Fig. c	--	--	20	11	6.2	19	3.2	25	3	7	1	4	8
S.C. 00	531301	Fig. c	--	--	26	28	8	26	5.2	36	12.5	11.5	1.5	12	40
S.C. 01	--	--	531401	Fig. a	37.5	40	12.1	--	--	48	18	18	2	8	110
S.C. 02	--	--	531402	Fig. a	37.5	51	12.1	--	--	48	24	18	2	8	130
S.C. 10	531216	Fig. d	--	--	49.1	47	12.2	69	8.2	72	20	18	2	12	190
S.C. 11	531611	Fig. d	--	--	49.1	60	12.2	69	8.2	72	31	18	2	12	290
S.C. 20	--	--	531701	Fig. a	55.7	55	18.2	--	--	70	27	19	3	10	370
S.C. 21	--	--	531702	Fig. a	55.7	70	18.2	--	--	70	39	19	3	18	480
S.C. 21	531240	Fig. d	--	--	57.2	70	18.2	86	10.5	90	39	19	3	18	500
S.C. 30	531259	Fig. b	--	--	65	75	20.2	78	8.5	90	29	28	3	18	560
S.C. 31	531261	Fig. d	--	--	66.5	93	20.2	95	8.5	107	47	28	3	18	780
S.C. 40	531714	Fig. d	--	--	76	90	22.2	100	8.5	112	42	28	3	18	880
S.C. 41	531327	Fig. d	--	--	76	110	22.2	100	8.5	112	49	28.5	3	18	960
S.C. 50	531939	Fig. d	--	--	87.5	100	40.2	114	8.5	127	47	33	3	20	1300
S.C. 51	531947	Fig. b	--	--	86	120	40.2	104	10.5	120	63	33	3	20	1500
S.C. 70 red.	531933	Fig. b	--	--	118	98	60.2	145	10.5	164	36	46	4	22	2200
S.C. 70	531932	Fig. b	--	--	118	140	60.2	145	10.5	164	66	46	4	22	3000
S.C. 71	531931	Fig. b	--	--	118	170	60.2	145	10.5	164	96	46	4	22	3800
S.C. 80	531940	Fig. b	--	--	170	167	80	204	12.2	230	95	53	5	30	7100
S.C. 81	531941	Fig. b	--	--	170	185	80	204	12.2	230	113	53	5	30	7700

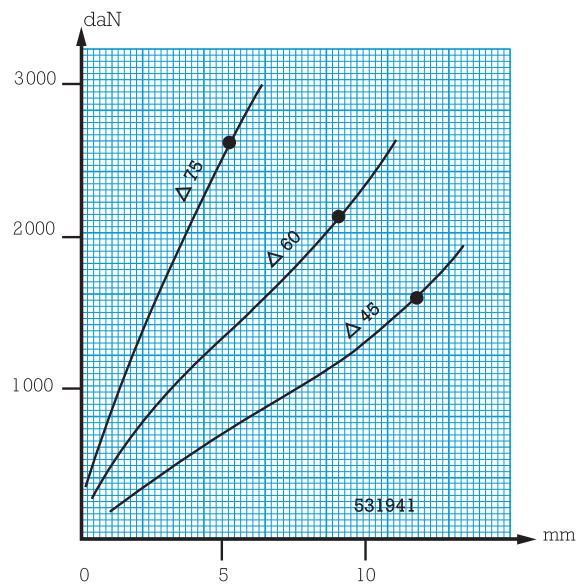
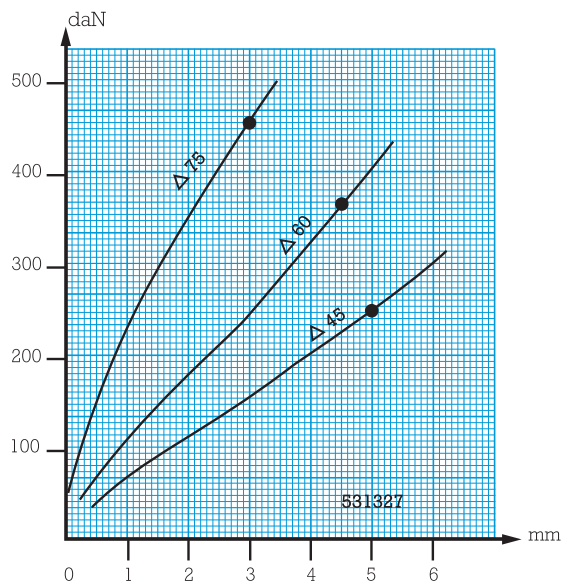
See current price list for availability of items.

OPERATING CHARACTERISTICS

Nominal static load daN	Deflect. mm	Reference	Hard.	Nominal static load daN	Deflect. mm	Reference	Hard.	Nominal static load daN	Deflect. mm	Reference	Hard.
1-6	1	531201	45	35-150	1.5	531611	75	110-440	3.5	531939	60
2-8	0.8	531201	60	35-150	3	531701	60	110-450	3	531327	75
2-10	0.5	531201	75	40-175	5	531259	45	110-450	6.5	531933	45
5-20	1.5	531301	45	45-180	2	531701	75	135-550	2.5	531939	75
7-30	1.2	531301	60	45-190	3	531240	60	135-550	3.5	531947	60
10-40	0.8	531301	75	45-190	3	531702	60	150-600	5	531933	60
10-50	2.5	531401	45	55-225	5	531714	45	165-670	2.5	531947	75
15-65	1.8	531401	60	60-240	3.5	531259	60	175-700	6.5	531932	45
15-65	2.5	531402	45	60-250	2	531240	75	210-850	6.5	531931	45
15-70	4	531216	45	60-250	2	531702	75	225-900	5	531932	60
20-80	1.5	531401	75	60-250	5	531261	45	275-1100	3	531932	75
20-85	1.8	531402	60	60-250	5	531327	45	275-1100	5	531931	60
20-85	4	531611	45	75-300	2	531259	75	310-1250	11	531940	45
25-100	3	531216	60	80-320	4.5	531714	60	350-1400	3	531931	75
25-100	3.5	531701	45	80-325	4.5	531939	45	400-1600	11	531941	45
25-110	1.5	531402	75	85-350	3.5	531261	60	450-1800	8.5	531940	60
30-120	2	531216	75	90-360	4.5	531327	60	525-2100	8.5	531941	60
30-120	3	531611	60	95-380	3	531714	75	575-2300	5	531940	75
30-135	3.5	531240	45	100-400	4.5	531947	45	650-2600	5	531941	75
30-135	3.5	531702	45	105-420	2	531261	75				

LOAD/DEFLECTION CURVES IN AXIAL COMPRESSION





ASSEMBLY

• Standard fixing

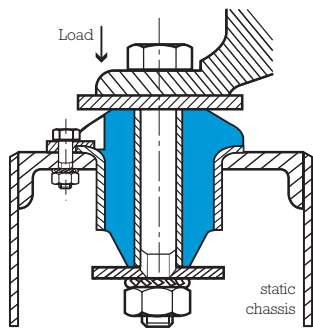


Fig. 1 - Fixing between the equipment and a metallic chassis (failsafe in mobile applications).

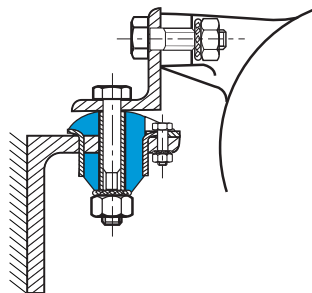


Fig. 2 - Fixing between two brackets onto a vertical surface (non failsafe).

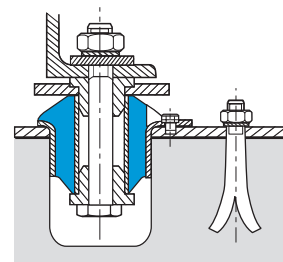


Fig. 3 - Fixing between the equipment and concrete (using locating rings).

• Reversed fixing

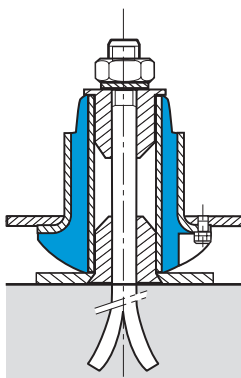


Fig. 4

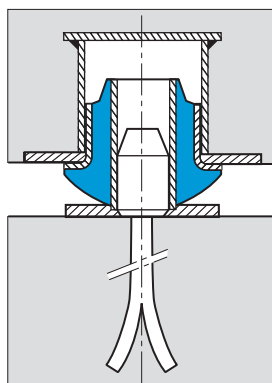


Fig. 5 - Fixing between inertia base and foundation. The inertia base increases the suspended mass and thus reduces the amplitudes of the vibrations as well as lowering the natural frequency.

• Mounting in tandem

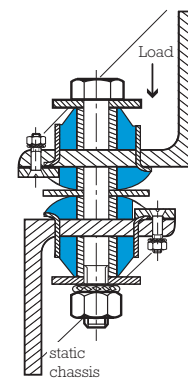


Fig. 6 - Two mountings fixed face to face. Provides twice the deflection under the same load.