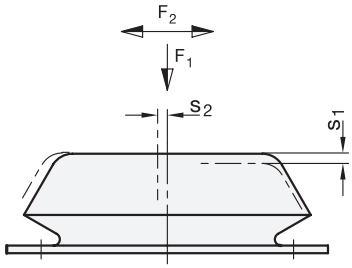

Terms

F_1 = static load in vertical direction (pressure)

F_2 = static load in horizontal direction (lateral thrust)

s_1 = Compression in vertical direction (spring excursion) under load through F_1

s_2 = Compression in vertical direction (spring excursion) under load through F_2

Stiffness R:
is the load which causes the damping elements to be compressed by 1 mm (spring rate)

Equation for calculating the stiffness: $R = \frac{F}{s}$

The table below gives details on the maximum static load F, the maximum rated compression and the resulting stiffness R.

The method shown on page 1054 and the values given below allow the maximum degree of insulation of the vibration to be determined as factor of the interference frequency.

d_1	Hardness in Shore	max. static load F_1 in N	Stiffness R_1 in N/mm	max. compression s_1 in mm	max. static load F_2 in N	Stiffness R_2 in N/mm	max. compression s_2 in mm
60	43*	1100	340	3,2	2300	770	3
60	57	1750	550	3,2	3400	1130	3
60	68*	2800	930	3	4000	1330	3
90	43*	1500	430	3,5	3000	750	4
90	57	2800	800	3,5	5000	1330	3,75
90	68*	4500	1290	3,5	7000	1870	3,75
113	43*	3500	1000	3,5	4500	1290	3,5
113	57	6500	1860	3,5	7500	2140	3,5
113	68*	10000	2860	3,5	11000	3140	3,5
126	43*	7500	2140	3,5	9000	2570	3,5
126	57	12500	3570	3,5	15000	4290	3,5
126	68*	19000	5340	3,5	22500	6430	3,5

* not available from stock, requires a minimum order quantity

Example of application