

Open Spring Mountings - Metal Based



1. Compliance:

- 1.1 Designed to BS 1726 -1 : 1987
- 1.2 Tolerance to BS 1726-1 : 2002
- 1.3 SAE and Ashrae Guidelines for Vibration Isolation

2. Application:

To isolate vibration from rotating and reciprocating machines. For example : Air Handling Units, Axial and Centrifugal Fans, Duct work, Pipe Work, Condensing Units, Pump Units, Chillers, Genset etc.

3. Product Features:

- 3.1 Laterally Stable Springs are designed to prevent Spring Buckling and capable of 50% overloading capacity. Horizontal stiffness is 80% of vertical stiffness with working deflection max. 60% at Rated Load.
- 3.2 Springs and Casing are powder coated with 100 hours of Salt Spray Test conforming to ASTM B-117.
- 3.3 Upper Load Plate and Leveling Assembly are provided for accurate Leveling.
- 3.4 In heavier capacities, Springs are welded to Load Plate with Neoprene Pad.
- 3.5 Standard Product Range offers upto 2" deflection with optional Custom made Isolators of higher deflection.
- 3.6 Thick ribbed Neoprene Pads are provided below Load Plate for noise isolation and non skid. 10-18 mm thick neoprene sound pads are provided.
- 3.7 Colour Coded Coated Springs for easy identification of Load.

4. Selection / Ordering:

Static Load.

SELECTION TABLE (Table No: C-05-01)
Isolation Efficiency at Typical Machine Speeds

M/C Speed (rpm)	Efficiency %		
	15mm Defl.	25mm Defl.	50mm Defl.
300	Di not use	34.0	75.2
500	68.7	83.3	92.3
750	88.1	93.2	96.7
1000	93.7	96.3	98.2
1200	95.5	97.4	98.7
1500	97.3	98.4	99.2
1750	98.0	99.8	99.4
2000	98.5	99.1	99.5

The above figures are theoretical values only based on the vertical natural frequency of the spring system assuming in infinitely stiff structural supports. The effects of high frequency spring coil resonances on low frequency performance are also ignored.

Technical Specifications (Table No: C-05-02) Design Data & Dimensions

Part No.	Colour Code	Rated Load(kg)	Deflection at Rated	Dimensions (mm)																	
				A	B	C	D	E	F	G	H	J									
SOSM25/30	Yellow	30	25	115	85	75	110	10	M10	8	20	55									
SOSM25/60	Green	60	25																		
SOSM25/100	Blue	100	25																		
SOSM25/160	White	160	25																		
SOSM25/250	Red	250	25																		
SOSM25/200	Red	200	25																		
SOSM25/300	Purple	300	25																		
SOSM25/400	Grey	400	25																		
SOSM25/500	Orange	500	25	144	110	100	140	11	M16	12	27	75									
SOSM25/600	Brown	600	25																		
SOSM25/700	Orange/Black	700	25																		
SOSM25/800	Brown/Black	800	25																		
SOSM50/100	Yellow	100	50																		
SOSM50/200	Green	200	50																		
SOSM50/300	Blue	300	50										180	110	100	140	11	M16	12	27	75
SOSM50/400	White	400	50																		
SOSM50/500	Red/Black	500	50																		
SOSM25/650	Yellow	650	26																		
SOSM25/850	Green	850	27	175	165	130	200	18	M20	16	42	127									
SOSM25/1050	Blue	1050	26																		
SOSM25/1250	White	1250	26																		
SOSM25/1300	Red	1300	27																		
SOSM25/1600	Purple	1600	25										225	210	150	250	18	M24	16	51	152
SOSM25/2000	Grey	2000	26																		
SOSM25/2300	Brown	2300	29																		
SOSM50/510	Black/Purple	510	51																		
SOSM50/760	Black/Grey	760	51	240	210	150	250	18	M20	16	42	127									
SOSM50/1000	Black/Orange	1000	50																		
SOSM50/1300	Black/Brown	1300	53																		

INTERNAL NESTED SPRING.Spring Stiffness is linear over its working range

(Table No: C-05-03)

Part No.	Colour Code	Rated Load (kg)	Deflection at Rated Load (mm)
SOSM20/10	Purple	10	20
SOSM20/15	Yellow	15	20
SOSM20/20	Grey	20	20
SOSM20/40	Green	40	20
SOSM20/70	Red	70	20
SOSM15/100	Blue	100	15

