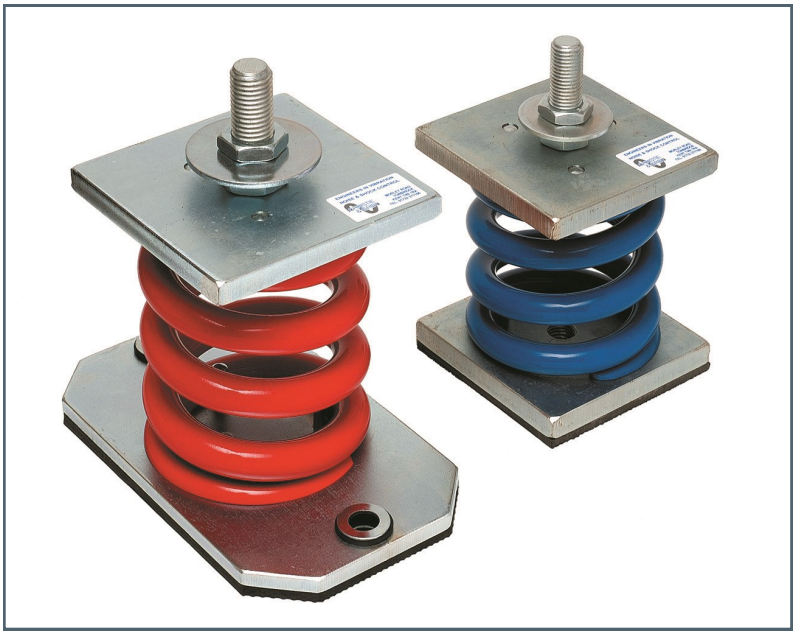
Industrial Solutions

Open Spring Mountings

Type OS50, OS60, OS75 & OS100



Originally designed for use with Type IPF Inertia Pouring Frames, the OS Mountings are now widely used to isolate vibration from every conceivable type of rotating and reciprocating machine. Where control of transient motion is required Open Spring Mountings can be used in conjunction with our Viscous Dampers Type SFD.

For applications requiring bolting down, the rubber seating pad and grommets ensure that there is no direct metal path between the machine and the seating, thus enhancing the high frequency noise isolation.

Design Features

- Nominal 50, 60, 75 & 100 mm deflection colour coded helical steel springs to BS1726 Class B with 50% overload capacity and O/D equal to at least 85% of working height.
- Can be bolted to supporting structure or free standing on 6 mm thick ribbed rubber seating pad (fitted as standard).
- Fully height adjustable.
- All steel components are zinc plated.
- No snubbing gives maximum efficiency.

Typical Applications

- Axial and Centrifugal Fans.
- Air Handling Units.
- Low Level Pipework.
- With Inertia Bases type IPF for Pumps, Generating Sets and Compressors etc.

MADE IN BRITAIN

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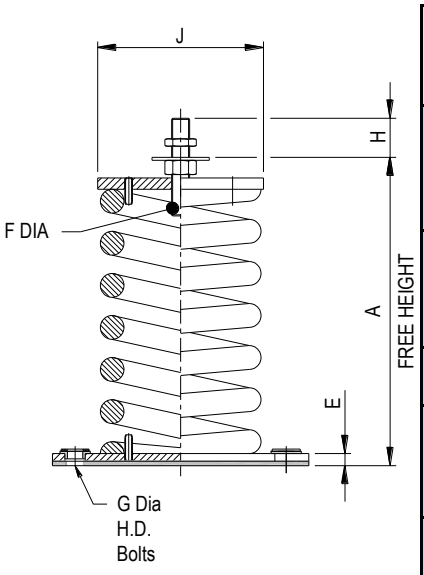
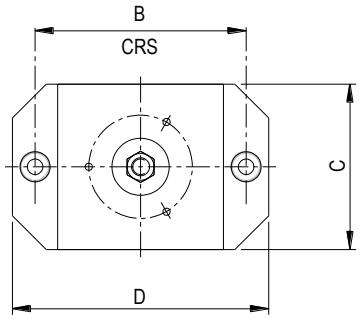
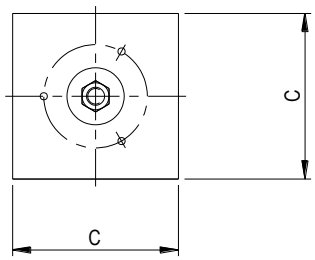
OS50/100 - OS50/500



STANDARD (WITH BASE PLATE)



FREE STANDING VERSION (add /FS)



TYPE OS MOUNTINGS - SIZES OS50, OS60, OS75 & OS100

PART No.	COLOUR CODE	RATED LOAD (kg)	DEFLECTION AT RATED LOAD (mm)	DIMENSIONS (mm)									WT MAX (kg)
				A	B	C	D	E	F	G	H	J	
OS50/100	YELLOW	100	50	180	110	90	140	11	M16	M12	24	76	2.3
OS50/200	GREEN	200	50										
OS50/300	BLUE	300	50										
OS50/400	WHITE	400	50										
OS50/500	RED/BLACK	500	50										
OS50/510	BLACK / PURPLE	510	51	235	210	150	250	16	M20	M16	42	150	11
OS50/760	BLACK / GREY	760	51										
OS50/1000	BLACK / ORANGE	1000	50										
OS50/1300	BLACK / BROWN	1300	53										
OS50/1400	BLACK / WHITE	1400	50	265	210	150	250	16	M20	M16	42	150	13
OS50/1600	BLACK / BLUE	1600	50										
OS50/2000	BLACK / GREEN	2000	50	265	280	220	340	16	M24	M16	52	220	29
OS50/2500	BLACK / YELLOW	2500	50										
OS50/3000	BLACK / RED	3000	50										
OS50/3200	BLACK / PURPLE	3200	50										
OS60/200	GREEN	200	60	241	210	150	250	16	M20	M16	42	130	9.2
OS60/300	BLUE	300	60										
OS60/400	WHITE	400	60										
OS60/500	RED	500	60										
OS60/600	PURPLE	600	60										
OS60/700	GREY	700	60										
OS60/800	ORANGE	800	60										
OS60/1000	BROWN	1000	60										
OS75/800	GREY / BLUE	800	75	285	280	220	340	16	M24	M16	52	220	25
OS75/1000	GREY / WHITE	1000	75										
OS75/1200	GREY / RED	1200	75										
OS75/1400	GREY / PURPLE	1400	75										
OS75/1600	GREY / ORANGE	1600	75										
OS75/2000	GREY / BROWN	2000	75	365	280	220	340	16	M24	M16	52	220	37
OS75/2500	RED	2500	75										
OS75/3200	GREY / BLACK	3200	75										
OS75/3500	BLACK	3500	75										
OS100/300	BLACK	300	100	320	280	220	340	16	M24	M16	52	220	19
OS100/400	YELLOW	400	100										
OS100/600	WHITE/BLACK	600	100	355	280	220	340	16	M24	M16	52	220	26
OS100/800	BLUE	800	100										
OS100/1000	WHITE	1000	100										
OS100/1200	RED	1200	100										
OS100/1400	PURPLE	1400	100										
OS100/1600	GREY	1600	100										
OS100/2000	ORANGE	2000	100	415	280	220	340	16	M24	M16	52	220	47
OS100/2500	BROWN	2500	100										
OS100/3200	BLACK	3200	100										

ISOLATION EFFICIENCY AT TYPICAL MACHINE SPEEDS

MACHINE SPEEDS (rpm)	EFFICIENCY %			
	50 mm DEFL.	60 mm DEFL.	75 mm DEFL.	100 mm DEFL.
300	75.2	80.2	84.7	89.0
500	92.3	93.7	95.0	96.3
750	96.7	97.3	97.8	98.4
1000	98.2	98.5	98.8	99.1
1200	98.7	99.0	99.2	99.4
1500	99.2	99.3	99.5	99.6
1750	99.4	99.5	99.6	99.7
2000	99.5	99.6	99.7	99.8

The above figures are theoretical values only based on the vertical natural frequency of the sprung system assuming infinitely stiff structural supports.

The effects of high frequency spring coil resonances on low frequency performance are also ignored.

SPRING DEFLECTION

Spring stiffness is linear over its working range therefore the actual deflection for a given load can be calculated as follows:-

$$\text{Actual Deflection (mm)} = \frac{\text{Actual Load (kg)} \times \text{Rated Deflection (mm)}}{\text{Rated Load (kg)}}$$

For full installation instructions please refer to our data sheet DS027.
For more detailed information and technical assistance please contact our Technical Department.
In the interests of continual development, the Company reserve the right to make modifications to these details without notice.

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