

Open Restrained Spring Mountings

Types ORS25 & ORS50 - 2 & 4 Spring Variants



The ORS mounting has been designed specifically for applications where transmission of low frequency machinery vibration to a building structure must be reduced to avoid physical damage or annoyance to the occupants.

It is a low frequency mounting specifically designed to limit vertical movement on equipment such as cooling towers and chillers. This could otherwise be excessive due to the low stiffness springs required to provide isolation of low frequency vibration.

Applications located at roof level can be successfully mounted on ORS units as any movement caused by high wind loads will be limited. Equipment which contains large volumes of liquid will benefit from installation on ORS mountings because during "draining down" upward movement is restricted thus avoiding damage to pipework and electrical connections.

Design Features

- High strength all steel construction epoxy powder coated finish with B.Z.P fixings as standard.
- Optional Stainless steel fixings available.
- Colour coded helical steel springs to BS1726 Class B with nominal deflections of 25 mm and 50 mm and up to 50% overload capacity.
- Vertical and lateral restraints have rubber inserts to avoid metallic contact and adequate radial clearance ensures isolation efficiency is not impaired.
- Springs located and seated on rubber washers to reduce high frequency transmission.
- Working height and vertical limiting stops are fully adjustable.
- 6 mm thick ribbed rubber seating pad supplied as standard.

Typical Applications

- Cooling Towers
- Chillers
- Large Fans
- Air Handling Units



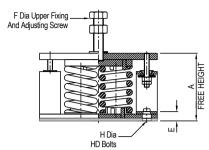
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TYPE ORS25 & ORS50

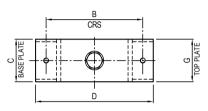


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TYPE ORS MOUNTINGS - SIZE ORS25/2 SPRINGS & ORS25/4 SPRINGS

	COLOUR	RATED	DEFLECTION	DIMENSIONS (mm)							MAX WT	
PART No.	CODE	LOAD (kg)	AT RATED LOAD (mm)	А	В	C	D	Е	F	G	Ι	(kg)
ORS25/2/200	YELLOW	200	25									
ORS25/2/400	RED	400	25		0 230	100	280	22	M24 x 100	100	M16	12.4
ORS25/2/600	PURPLE	600	25									
ORS25/2/800	GREY	800	25	160								
ORS25/2/1000	ORANGE	1000	25	100								
ORS25/2/1200	BROWN	1200	25									
ORS25/2/1600	BLACK	1600	25									
ORS25/2/2000	BLUE	2000	25									
ORS25/4/400	YELLOW	400	25				280	22	M24×100	100	M16	16.4
ORS25/4/800	RED	800	25			165						
ORS25/4/1200	PURPLE	1200	25									
ORS25/4/1600	GREY	1600	25	160	230							
ORS25/4/2000	ORANGE	2000	25									
ORS25/4/2400	BROWN	2400	25									
ORS25/4/3200	BLACK	3200	25									
ORS25/4/4000	BLUE	4000	25									

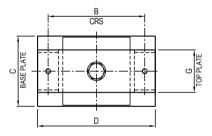
TYPE ORS25/2 & ORS50/2 2 SPRING VARIANT



TYPE ORS MOUNTINGS - SIZE ORS50/2 SPRINGS & ORS50/4 SPRINGS

MAX DIMENSIONS (mm) DEFLECTION **RATED** COLOUR WT PART No. LOAD AT RATED CODE (kg) Α В C D G Н LOAD (mm) (kg) ORS50/2/200 YELLOW 200 50 ORS50/2/400 GREEN 50 400 ORS50/2/600 **BLUE** 600 50 187 230 100 280 22 M24 x 100 100 M16 13.3 ORS50/2/800 WHITE 800 50 ORS50/2/1000 RED/BLACK 1000 50 ORS50/4/400 YELLOW 400 50 ORS50/4/800 **GREEN** 800 50 ORS50/4/1200 BLUE 1200 50 187 165 280 22 M24×100 16.3 230 100 M16 ORS50/4/1600 WHITE 1600 50 ORS50/4/2000 RED/BLACK 2000 50

TYPE ORS25/4 & ORS50/4 4 SPRING VARIANT



Stainless Steel Fixings

This option is available across the entire range.

When ordering the Pt. No. should be suffixed with /S for Stainless Steel Fixings e.g. ORS25/4/800/S.

Spring Deflection

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

Actual Deflection (mm) = Actual Load (kg) x Rated Deflection

Rated Load (kg)

For full instructions please refer to our data sheet DS025.

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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ISOLATION EFFICIENCY AT TYPICAL MACHINE SPEEDS

Ì	MACHINE	EFFICIENCY %					
	SPEEDS (rpm)	25 mm DEFL.	50 mm DEFL.				
	300	34.0	75.2				
	500	83.3	92.3				
	750	93.2	96.7				
	1000	96.3	98.2				
	1200	97.4	98.7				
	1500	98 4	99 2				

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.

