Enclosed Spring Mounts

Type ES - Enclosed Spring & ECS - Enclosed Captive Spring

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CHRISTIE & GREY

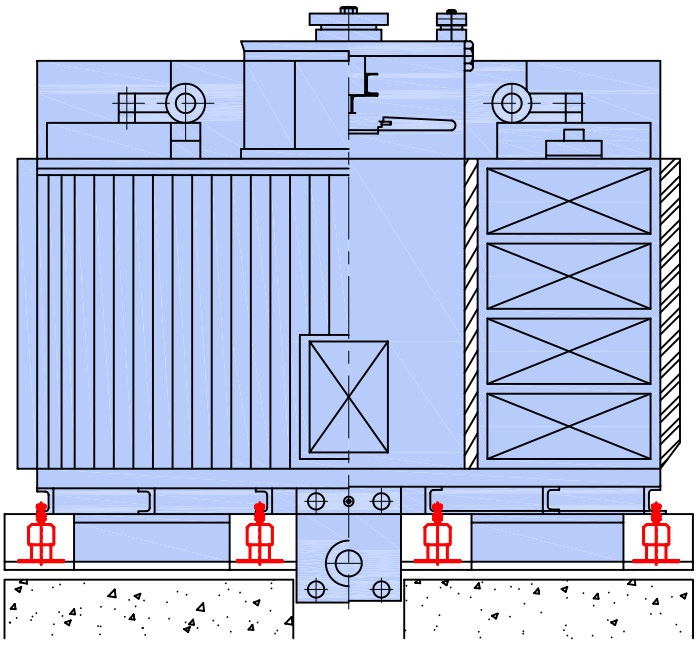
A unique range of mountings designed primarily for building services applications where the control of low frequency vibration and noise emanating from mechanical plant is of paramount importance.

The benefits of a combined rubber and steel housing for the spring have helped establish the ES and ECS mountings as industry standards accepted by specifiers, equipment manufacturers and mechanical services installers alike.

DESIGN FEATURES

- Nitrile rubber (oil resistant) lower spring housing eliminates the possibility of metallic continuity and ensures excellent acoustic performance. Steel reinforced on ECS range.
- Full enclosed captive assembly protects the spring and controls transient motion.
- All steel components zinc plated.
- Spring with nominal deflections of 20, 25 & 50 mm, laterally stable and with 50% overload capacity.
- Simple single bolt height adjustment.
- Spring viewing/inspection hole and ribbed rubber seating pads available for ES25 and ECS ranges.
- Colour coded labels for easy identification.

TYPICAL INSTALLATION



Cooling Tower

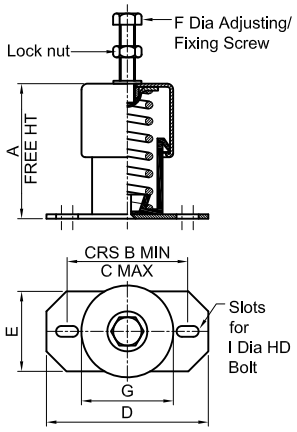
TYPICAL APPLICATIONS

- Axial and Centrifugal Fans
- Air Handling Units
- Chillers and Cooling Towers
- Rotary and Multi Cylinder Compressors
- Diesel Generating Sets (ECS only)
- Mechanical Test Rigs
- Isolation of Sensitive Equipment

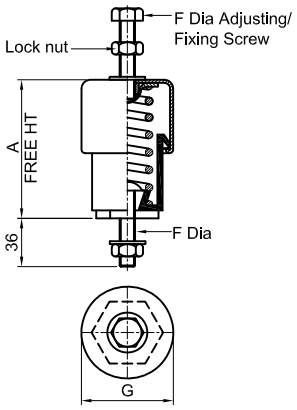
RESISTOFLEX
SINCE 1947
Vibration Shock Seismic Control

ENCLOSED SPRING MOUNTS — ES / ECS

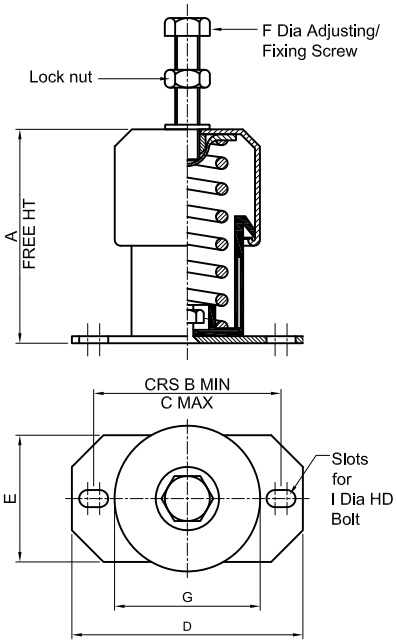
TYPE ES



TYPE ESB



TYPE ECS



TECHNICAL CHARACTERISTICS

CODE	COLOUR CODE	RATED LOAD (kg)	DEFLECTION at Rated Load (mm) ±15%	NOMINAL DIMENSIONS (mm)							
				A	B	C	D	E	F	G	I
ES-20/10	Purple	10	20	63	54	60	76	38	M8	48	M6
ES-20/15	Yellow	15	20								
ES-20/20	Grey	20	20								
ES-20/40	Green	40	20								
ES-20/70	Red	70	20								
ES-15/100	Blue	100	15								
ESB-20/10	Purple	10	20	65	-	-	-	-	M8	48	-
ESB-20/15	Yellow	15	20								
ESB-20/20	Grey	20	20								
ESB-20/40	Green	40	20								
ESB-20/70	Red	70	20								
ESB-15/100	Blue	100	15								
ES-25/30	Yellow	30	25	88	85	90	110	70	M10	78	M8
ES-25/60	Green	60	30								
ES-25/100	Blue	100	25								
ES-25/160	White	160	25								
ES-25/250	Red	250	25								
ECS-25/200	Red	200	25	127	130	150	180	95	M16	111	M12
ECS-25/300	Purple	300									
ECS-25/400	Grey	400									
ECS-25/500	Orange	500									
ECS-25/600	Brown	600									
ECS-25/700	Black	700									
ECS-25/800	Black	800									
ECS-25/1000	Blue	1000									
ECS-25/1200	Blue/Black*	1200									
ECS-25/1400	Blue/Silver*	1400									
ECS-50/100	Yellow*	100	50	155	130	150	180	95	M16	111	M12
ECS-50/200	Green*	200									
ECS-50/300	Blue*	300									
ECS-50/400	White*	400									
ECS-50/500	Red*	500									

* Internal nested spring

INSTALLATION NOTES

- Correct fixing to equipment with locknut tightened
- Adjusting/fixing screw MUST be wound down sufficiently so that the spring pressure is felt before tightening the locknut
- For height adjustment, continue winding the adjustment screw down, thus raising the upper spring cover BUT DO NOT adjust by more than the original deflection obtained when the load was applied to the mounting

INSTALLATION MANUAL

Refer to IM 026 for detailed Installation Instructions

ISOLATION EFFICIENCY AT TYPICAL MACHINE SPEEDS

MACHINE SPEEDS (rpm)	EFFICIENCY %		
	15 mm DEFL.	25 mm DEFL.	50 mm DEFL.
300	DO 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	98.8	99.4
2000	98.5	99.1	99.5

These figures assume infinitely stiff structural support.
High frequency spring coil resonance effects are ignored.

For more detailed information and technical assistance, please contact our Applications Engineering Group.

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