Easyflex™ Open Spring Mountings

VibraSystems

Easyflex Open Spring Mounts are high-performance vibration isolators engineered for mechanical, electrical, and plumbing (MEP) systems across. Designed with a unique integrated rubber end fixing, they eliminate the issues of loose springs and base plates, offering superior noise and vibration control. Ideal for HVAC, industrial, and acoustic applications, ensuring performance and compliance.

Key Features & Benefits

- **Unique Spring Design:** Integrated rubber end fixing for enhanced stability and high-frequency noise attenuation.
- **Compliant Design:** Built in accordance with BS 1726 (Part 1), SAE, and ASHRAE guidelines.
- **High Isolation Efficiency:** Up to 99.5% isolation efficiency at typical machine speeds.
- **Wide Load Range**: Models available for loads from 22 lbs to 5060 lbs.
- **Deflection Options:** Nominal deflections of 0.75", 1", and 2" for various applications.
- **Color-Coded Springs:** Simplifies identification during installation.
- **Height Adjustable:** Easy on-site adjustment with bolt-through capability.
- **Durable Finish:** Zinc-plated metal components for corrosion resistance.
- **Seismic Compatibility:** Can be paired with snubbers for IBC or OSHPD compliance.

Typical Applications

- Rooftop Units (RTUs)
- Air Handling Units (AHUs)
- Chillers and Condensers
- Base-Mounted Pumps
- Fans (Axial & Centrifugal)
- Ductwork and Low-Level Pipework
- VRF/VRV Systems
- Generator Sets (with dampers)

Installation Guidelines

- Ensure level installation and equal load distribution across all mounts (within ±10%).
- Mounts can be freestanding on ribbed rubber pads or bolted through for fixed installations.
- Never overload mounts—use provided selection chart.
- Use seismic accessories where required by local building codes.

Seismic and Wind Compliance

For installations requiring compliance with IBC, NBC, or OSHPD, Easyflex Open Spring Mounts can be combined with:

- Seismic snubbers
- Viscous dampers (EFVD series)
- Restraint brackets and engineered anchorage

Custom submittals available on request.

Isolation Efficiency at Typical Machine Speeds

M/C Speed (rpm)	EFFICIENCY %		
	0.50" DEFL	1" DEFL	2" 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	99.8	99.4
2000	98.5	99.1	99.5

Compliance

- ASHRAE Guidelines 171 & 90.1
- IBC 2018 / NBC 2020 seismic readiness
- BS 1726 and SAE compliant spring design
- Optional restraint systems for seismic zones

Size	Load Range (lbs)	Nominal Deflection (inch)
EFOSB	22-220	0.75
EFOS25	66-5060	1
EFOS50	220-2860	2

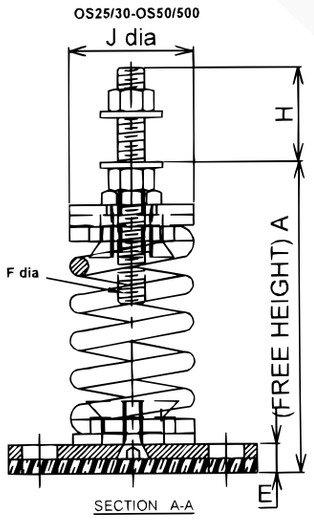
This above figures are theoretical values only based on the vertical natural frequency of the spring system assuming in infinitely stiff structural supports. The effects of high frequency spring coil resonances on low frequency performance are also ignored.

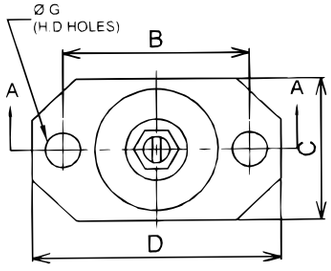
Easyflex™ Design Data & Dimensions

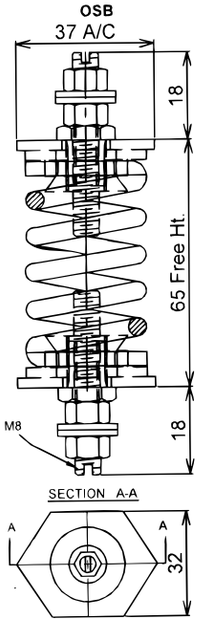
VibraSystems

PART NO.	COLOUR CODE	RATED LOAD (lbs)	DEFLECTION AT RATED	DIMENSIONS (inches)								
				A	B	C	D	E	F	G	H	J
EFOS25/30	Yellow	66	1″	4.53	3.35	2.76	4.33	0.39	M10	0.39	0.79	2.17
EFOS25/60	Green	132	1″									
EFOS25/100	Blue	220	1″									
EFOS25/160	White	352	1″									
EFOS25/250	Red	550	1″									
EFOS25/200	Red	440	1″	6.30	4.33	3.94	5.51	0.43	M16	0.47	1.06	2.95
EFOS25/300	Purple	660	1″									
EFOS25/400	Grey	880	1″									
EFOS25/500	Orange	1100	1″									
EFOS25/600	Brown	1320	1″									
EFOS25/700	Orange	1540	1″									
EFOS25/800	Black	1760	1″									
EFOS50/100	Yellow	220	2″	7.40	4.33	3.94	5.51	0.43	M16	0.47	1.06	2.95
EFOS50/200	Green	440	2″									
EFOS50/300	Blue	660	2″									
EFOS50/400	White	880	2″									
EFOS50/500	Black	1100	2″									
EFOS25/650	Yellow	1430	1.02″	7.17	4.33	3.94	5.51	0.43	M16	0.47	1.06	2.95
EFOS25/850	Green	1870	1.06									
EFOS25/1050	Blue	2310	1.02″									
EFOS25/1250	White	2750	1.02″									
EFOS25/1300	Red	2860	1.06″	8.86	8.27	5.91	9.84	0.71	M24	0.63	2.01	2.95
EFOS25/1600	Purple	3520	1″									
EFOS25/2000	Grey	4400	1.02″									
EFOS25/2300	Brown	5060	1.14″									
EFOS50/510	Black/Purple	1122	2.01″	9.45	8.27	5.91	9.84	0.71	M20	0.63	1.65	3.15
EFOS50/760	Black/Grey	1672	2.01″									
EFOS50/1000	Black/Orange	2200	2″									
EFOS50/1300	Black/Brown	2860	2.09″									

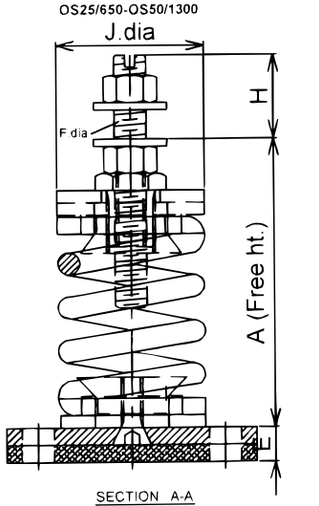
Spring Stiffness is linear over its working range.

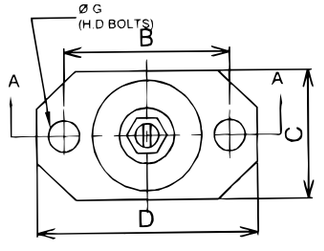






PART NO.	COLOUR CODE	RATED LOAD (LBS)	DEFLECTION AT RATED LOAD (INCHES)
EFOSB20/10	Purple	22	0.75
EFOSB20/15	Yellow	33	0.75
EFOSB20/20	Grey	44	0.75
EFOSB20/40	Green	88	0.75
EFOSB20/70	Red	154	0.75
EFOSB20/100	Blue	220	0.75





Compliance - Springs designed according to BS 1726 (Part 1) and recommendations made by SAE (US) and ASHRAE

- Due to policy of continual improvement, the specifications are subject to change without prior notice.
- Measurements are subject to 5% tolerance.
- To achieve good sound suppression do not over load fitting.