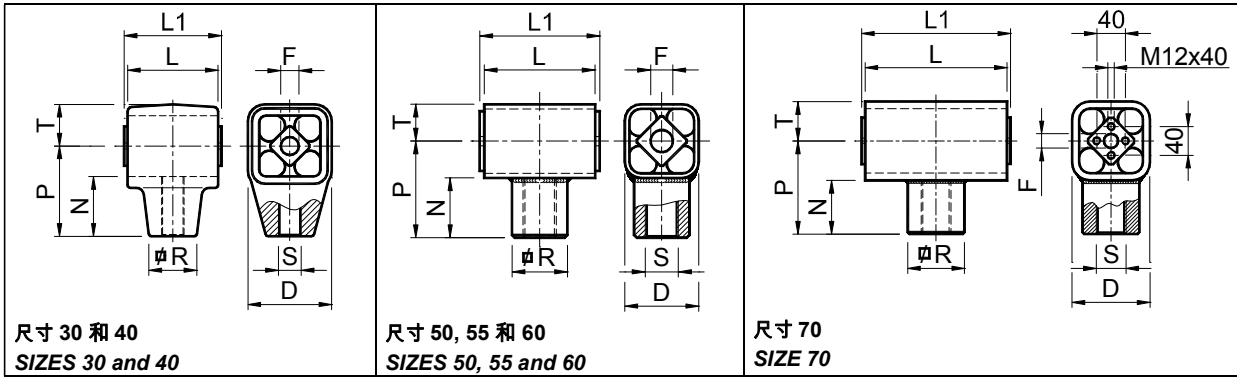
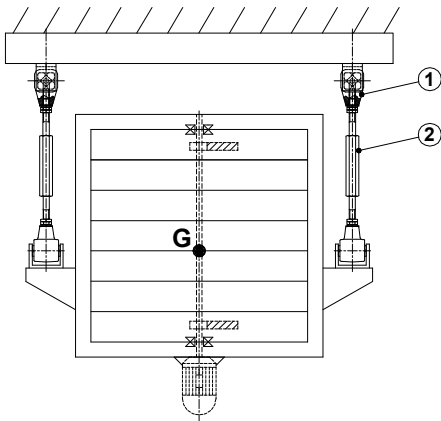


VIB 弹性组件 型号: BF / Elastic Components VIB Type: BF



型号 Type	编号 N°	Q	D	F	L	L1 ^{+0 -0.3}	N	P	R	S	T	重量 Weight in kg
BF 30	RE021154	575- 1500	54	13 ^{+0 -0.2}	60	65	40.5	60	28	M16	27	0.40
BF 30 S	RE021174	575- 1500	54	13 ^{+0 -0.2}	60	65	40.5	60	28	M16 S	27	0.40
BF 40	RE021156	1240- 2850	74	16 ^{+0.5 +0.3}	80	90	53	80	42	M20	37	1.00
BF 40 S	RE021176	1240- 2850	74	16 ^{+0.5 +0.3}	80	90	53	80	42	M20 S	37	1.00
BF 50	RE021158	2475- 4750	76	20 ^{+0.5 +0.2}	100	110	65	100	45	M24	38	1.75
BF 50 S	RE021178	2475- 4750	76	20 ^{+0.5 +0.2}	100	110	65	100	45	M24 S	38	1.75
BF 55	RE021160	4275- 7125	80	20 ^{+0.5 +0.2}	120	130	65	105	60	M36	40	4.70
BF 55 S	RE021180	4275- 7125	80	20 ^{+0.5 +0.2}	120	130	65	105	60	M36 S	40	4.70
BF 60	RE021161	4275- 9500	100	24 ^{+0.5 +0.2}	160	150	65	115	60	M36	50	5.50
BF 60 S	RE021181	4275- 9500	100	24 ^{+0.5 +0.2}	160	150	65	115	60	M36 S	50	5.50
BF 70	RE021162	5700- 15200	110	20 ^{+0.5 +0.2}	200	210	85	130	80	M42	55	12.30
BF 70 S	RE021182	5700- 15200	110	20 ^{+0.5 +0.2}	200	210	85	130	80	M42 S	55	12.30

Q: 每个悬架的最大负载, 以 N 表示 / Max loading in N per suspension



图例说明 / Key:

- 1: VIB BF 型组件 / BF Type
- 2: 连接单位 / Connecting unit
- l: 轴距 / Distance between centres
- w: 圆型振动半径
Circular oscillation radius
- w₁: 椭圆形振动第一轴
Elliptic oscillation first axis
- w₂: 椭圆形振动第二轴
Elliptic oscillation second axis
- γ: 正交振动半角
Orthogonal oscillation halfangle
- δ: 旋转半角 / Rotation halfangle

材料

尺寸为 30、55、60、70, 外壳为钢制, 尺寸为 40 和 50, 外壳为铝制。内部方管为铝制拉丝。

处理

外壳为烤炉涂漆, 内部方管由 RAL 烤漆覆盖。

应用

BF 振动组件主要应用于建造以圆型或椭圆型 (平面筛) 方式振动的悬挂或支撑设备。

BF 组件安装可采取以下两种方式: 在正交轴 (用于椭圆型轨道) 和平行轴 (圆型轨道)。在悬挂构型中, 为了避免在运动过程中产生的可能造成机器波动的动力扭矩, BF 应安置在与重心平面最近的位置。为使用 BF 组件建造一个悬架, 我们建议使用一个在两端具有相反螺纹的连接单位 (一个左旋一个右旋), 使用六角棒车削获取。使用一个活动扳手在棒中央旋转, 可以最好的方式调整设备中所有悬架的两个弹性组件之间的轴距。

MATERIALS

The external body is made of steel in the sizes 30, 55, 60 and 70, of light metal die cast in the sizes 40 and 50. The inner square is made of light alloy profile.

TREATMENTS

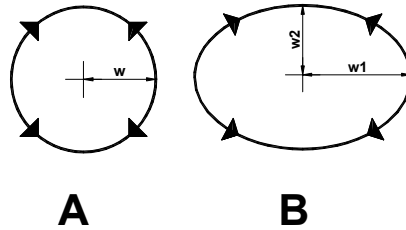
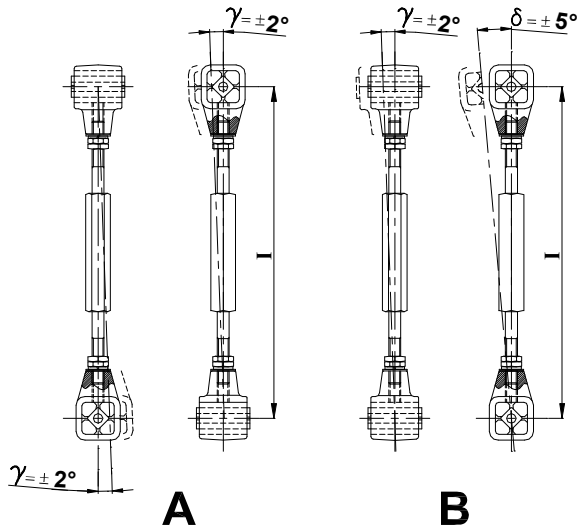
The external body is oven-painted while the inner square is covered with a RAL varnish.

DUTY

The BF oscillating element is generally used to realize circular or elliptic motion oscillating plants (gyratory sifters or plansifters) suspended or supported. You can install BF following two configurations: orthogonal axis for elliptic paths, and parallel axis for circular paths. In the suspended configuration, dynamic couples that could make the machine wave during operation, can be excluded by positioning the BF elements as close as possible to the centre of gravity. Suspensions with BF elements can be produced using a link unit whose ends must have opposite threads (one right-end and one left-hand) and obtained by drawing an hexagonal bar. With a monkey spanner, focusing on the middle of the bar, you can adjust at best the axle base between the two elastic components for all the plant suspensions.

构型 - 轨道种类

CONFIGURATION - TRAJECTORY TYPE



A: 圆型振动构型 (正交轴)

B: 椭圆型振动构型 (平行轴)

A: Configuration for circular oscillation (orthogonal axis)

B: Configuration for elliptic oscillation (parallel axis)

计算实例: 计算 BF 悬架的准确尺寸

CALCULATION EXAMPLE: Determination of BF suspension correct size.

起始数据 / Given data:

构型 "A" 圆型振动 (正交轴)

"A" configuration for circular oscillation (orthogonal axis)

Y:	正交振动半角:	2°
	<i>Halfangle orthogonal oscillation:</i>	
n:	电动机旋转速度:	150 min ⁻¹
	<i>Motor rotation velocity:</i>	

w₁:	圆型振动半径:	18 mm
	<i>Circular oscillation radius:</i>	
G:	振动块重量:	7000 N
	<i>Oscillating mass weight:</i>	
X:	应使用悬架数目:	4
	<i>Required suspension number:</i>	

未知数据 / Unknow data:

Q₀: 每个悬架负载 / Load for each suspension

计算步骤 / Calculation steps:

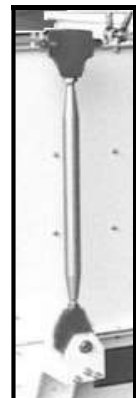
I: 悬架最低轴距
Minimum distance between centres

$$= \frac{w_1}{(\tan \gamma)} = \frac{18}{(\tan 2^\circ)} = \frac{18}{35} = 514 \text{ mm}$$

总重量(G)除以悬架数目(X), 可得到悬架型号, 即:

Q₀: *The suspension type is obtained by dividing the total weight (G) by the number of mountings (X), so:*

$$= \frac{G}{X} = \frac{7000}{4} = 1750 \text{ N}$$



结论: 应使用 4 个悬架, 每个由两个 BF 40 组件构成。

Conclusion: It must be used 4 mountings, each comprising 2 BF 40 elements.