MUB/MUB-FLC











Technical features

Power supply

Three-phase voltage from 220V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity

4 poles.

Conformity with European Directives

Low Voltage 2006/95/EC, ATEX 94/9/EC (only size 50).

Reference Regulations

EN 60034-1, IEC/EN 61241-0, IEC/EN 61241-1

Functioning

Continual service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force

Range extended up to 7000 Kgf. (68.7 KN), with centrifugal force adjustable from 0 to 100%.

Mechanical protection

IP 66 according to IEC 529, EN 60529.

Protection against mechanical impacts

IK 08 according to IEC 68, EN 50102.

Insulation class

Class F (155°C), class H (180°C) on request.

Tropicalization

Standard on all vibrators with "drop by drop" trickle system.

Ambient temperature

From -20°C a +40°C. Versions for higher or lower temperatures are available on request.

Vibrator thermal protection

Standard PTC rated thermistor heat detectors 130°C (DIN 44081-44082) from size 80, on request for smaller sizes. Also on request thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator

In all positions and therefore without restric-

Lubrication

All vibrators are lubricated in the factory and do not require further lubrication if used in normal operating conditions ("FOR LIFE" lubrication). In heavy duty operating conditions periodical re-lubrication may be applied.

Terminal box

Large fixed electrical connections. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor

Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines. Insulated windings using "drop by drop" trickle system with class H resin. The rotor is die cast aluminium.

Casing

In spheroidal cast iron to have high strength and optimal elasticity.

Bearing flange

Constructed in spheroidal cast iron. The geometry of the flange transmits the load to the casing uniformly.

Bearings

Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

Motor shaft

In treated steel alloy (Isothermic hardening) resistant to stress.

Eccentric weights

Lamellar for clamped centric weight have an ample possibility of adjustment: the particular adjustment system adopted allows to obtain phase shift from 0 to 180° of the group of upper weights with respect to the group of lower weights and to have ample adjustment of the centrifugal force within the same group of weights.

Weight covers

Not envisioned in the MVB and MVB-FLC series.

Painting

Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 200°C. Tested in salt spray for 500 hours.

Stainless steel protection

On request, corrosion high grade protection (stainless steel micro suspensions in a polyurethanic paint) is available.

MVB/MVB-FLC













MVB 4 poles - 1500/1800 rpm

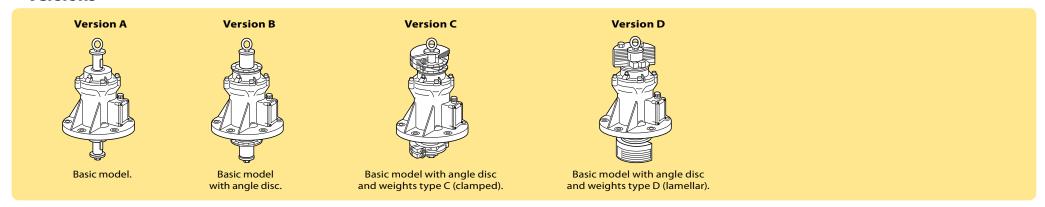
		Descrip			Mechan	ical specif	fications		Electrical specifications							
	Code	Туре	SIZE	® •	II2D Temp.		Centrifu g	k	«N	Weight kg	Max input power W		Max. current A 400 V 460 V			Ia/In
					class	50 Hz	60 Hz	50 Hz	60 Hz		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
ase	601226	MVB 1510/15	50	•	150°C	1500	1500	14.7	14.7	41.5	1100	1200	2.10	2.00	3.76	4.50
-bh	601129	MVB 2500/15	60	•	/	2500	2500	24.5	24.5	67.0	2150	2700	3.90	4.10	5.60	5.81
hree	601130	MVB 4500/15	80	•	/	4500	4500	44.1	44.1	106	4000	4200	6.70	5.80	4.48	4.18
•	601131	MVB 7000/15	90	•	/	7000	7000	68.7	68.7	160	7000	7000	11.8	10.2	6.19	6.73

MVB-FLC 4 poles - 1500/1800 rpm

		Descript				Mechan	ical speci	fications		Electrical specifications							
	Code	Туре			II2D Temp. class		kg		igal force kN		Max input power W		Max. current 400 V 460 V 50 Hz 60 Hz			Ia/In	
					Class	50 Hz	60 Hz	50 Hz	60 Hz		50 Hz	60 Hz	50 HZ	60 HZ	50 H	Z	60 Hz
ase	601225	MVB 1510/15-FLC	50	•	150°C	1500	1500	14.7	14.7	54.5	1100	1200	2.10	2.00	3.7	ĵ	4.50
-bha	601134	MVB 2500/15-FLC	60	•	/	2500	2500	24.5	24.5	67.0	2150	2700	3.90	4.10	5.6)	5.81
three	601135	MVB 4500/15-FLC	80	•	/	4500	4500	44.1	44.1	106	4000	4200	6.70	5.80	4.4	3	4.18
•	601136	MVB 7000/15-FLC	90	•	/	7000	7000	68.7	68.7	160	7000	7000	11.8	10.2	6.1)	6.73

 I_A/I_N = ratio between start-up current and maximum current.

Versions



MVB/MVB-FLC













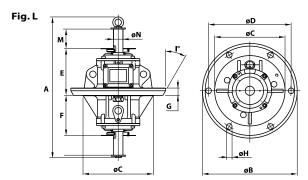
MVB 4 poles - 1500/1800 rpm

			Dimensional specifications (mm)													
	Туре	Fi	g.	A	øB	øC	øD	Holes øH	N°	E	F	G	øl	L	М	Cable entry thread
se	MVB 1510/15	ı	ı	476	290	171	250	17	6	278	46	20	35	71	71	M25x1,5
-phase	MVB 2500/15	ı	l	587	350	224	305	21	6	294	54	27	40	71	71	M25x1,5
three	MVB 4500/15	ı	l	664	400	240	355	23.5	6	340	70	30	52	75	75	M25x1,5
•	MVB 7000/15	ı	l	740	508	314	438	25	8	388	88	34	52	79	79	M32x1,5

Fig. I

MVB-FLC 4 poles - 1500/1800 rpm

			Dimensional specifications (mm)													
	Туре	Fig.	Α	øB	øC	øD	Holes øH	N°	E	F	G	Ι°	L	М	øN	Cable entry thread
ase	MVB 1510/15-FLC	L	476	350	260	305	21	6	174	150	27	30	71	71	35	M25x1,5
φ	MVB 2500/15-FLC	L	587	350	260	305	21	6	189	162	27	30	71	71	40	M25x1,5
three	MVB 4500/15-FLC	L	664	400	310	355	23.5	6	220	190	30	15	75	75	52	M25x1,5
-	MVB 7000/15-FLC	L	740	508	348	438	25	8	255.5	224.5	32.5	30	79	79	52	M32x1,5



Versions

Each C type weight group (in twos) is adjustable by phase shifting one in respect to the other. Each D type weight group (lamellars) is adjustable by removing one or more lamellar elements.

Weight adjustment: the weights at the two ends of the shaft can be staggered as required, with reference to the graduated discs on the shaft itself.



Infinitely adjustable centrifugal force



Centrifugal force adjustable from max. to min. by removing the lamellar weights.