

●Compact and Large Capacity ●500 kN & 1 MN

# **Small-sized Compression Load Cell**



# **Compact & Lightweight** Nonlinearity: 1/1000

- •Service life: 10 million times or more
- BISELCOM® gages are used.

LCV-A series is a compact & lightweight load cell developed for large capacity of 500 kN and 1 MN. They can easily be installed into existing facilities. The hermetically-sealed structure with inert gas filled in ensures stable and reliable performance with 1/1000 nonlinearity. Use of BISELCOM gages ensures increased output and improved reliability.

\*BISELCOM gages are self-temperature-compensation gages with the sensitivity temperature compensation function added.

### **Specifications**

#### Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.1% RO
Hysteresis	Within ±0.1% RO
Repeatability	0.05% RO or less
Rated Output	2.5 mV/V (5000 μm/m) ±0.2%

#### **Environmental Characteristics**

Safe Temperature Range	-20 to 80°C
Compensated Temperature Range	-10 to 70°C
Temperature Effect on Zero Balance	Within ±0.005% RO/°C
Temperature Effect on Output	Within ±0.005%/°C
remperature Effect of Catput	VVICINI1 ±0.005 /0/ C

# **Electrical Characteristics**

Safe Excitation Voltage	20 V AC or DC							
Recommended Excitation Voltage	1 to 10 V AC or DC							
Input Resistance	350 Ω±0.5%							
Output Resistance	350 Ω±0.5%							
Cable 4-conductor (0.5 mm²) chloroprene shielded cable,								
8.5 mm diameter by 5 m long, with crimp-style terminals for 4 mm								
(Shield wire is not connected to	o mainframe )							

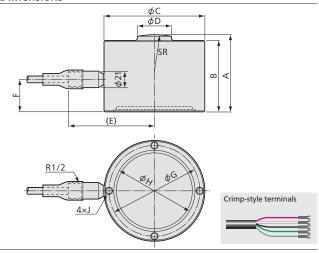
#### **Mechanical Properties**

Safe Overload Rating	150%
Natural Frequencies & Weight	See table below.
Degree of Protection	IP67 (IEC 60529)

Optional Accessories (For details, refer pages 2-72 to 2-76)

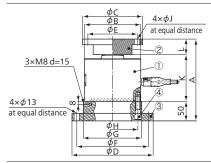
Saddle CA-B Mount Base CF

# Dimensions



Models	Rated Capacity	Natural Frequencies (Approx.)	Α	В	φС	φD	(E)	F	φG	φН	J	SR	Weight (Approx.)
LCV-A-500KN	500 kN	13 kHz	95	88	126	42	107	40	113	101	M10 d=12	125	6 kg
LCV-A-1MN	1 MN	12 kHz	120	110	146	58	117	50	130	115	M12 d=18	180	10 kg

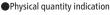
#### Dimensions in Combination with Accessories



# In Combination with Saddle CA and Mount Base CF

① Load Cells	② Saddles	③ Mount Bases	(4) Hex. socket Head Bolts	Α	фΒ	φС	φD	φЕ	φF	φG	φн	φЈ	К	L
LCV-A-500KN	CA-50B	CF-113F	4xM10 L=45	173	126	118	178	100	154	130	113	11	95	28
LCV-A- 1MN	CA-1MH	CF-130F	4xM12 L=50	210	146	156	208	128	184	150	130	13	120	40

Hexagon socket head bolts to connect the load cell to the mount base are attached to the mount base.



Static measurement
Dynamic measurement













