

PIAB Load Cell Type WK



The PIAB WK Load Cell is designed for aggressive industrial use as compression load cell. It meets the requirements of force measurement.

TECHNICAL DATA

NON-LINEARITY

% of R.O. <+/-0.1

HYSTERESIS

% of R.O. <0.2

REPEATABILITY

% of R.O. <+/-0.1

CREEP ERROR AT R.C. 30 MIN

% of load <+/-0.2

MINIMUM LOAD OUTPUT RETURN

% of R.O. <+/-0.2

MAX. EXITATION

VDC 25

INPUT RESISTANCE

Ω 820

OUTPUT RESISTANCE

Ω 705

INSULATION RESISTANCE

G Ω >5

TEMP. EFFECT ON MIN. LOAD OUTP.

% of R.O./°C <+/-0.01

TEMP. EFFECT ON SENSITIVITY

% /°C <+/-0.01

COMPENS. TEMP. RANGE

°C -10 – +40

OPERATING TEMP. RANGE

°C -30 – +70

SAFE LOAD

% of R.C. 150

BREAKING LOAD

% of R.C. >400

PROTECTION CLASS

IP 67.

CABLE LENGTH

5 m (available with connector)

**Continuous product development
may change specification.**



9721-1_110328 © Gigasense AB

FUNCTION

- Designed for accurate measurement of compressive loads.
- Simple mounting.
- Nominal load range from 10t to 500t (100kN to 5000kN).
- Option two bridges.

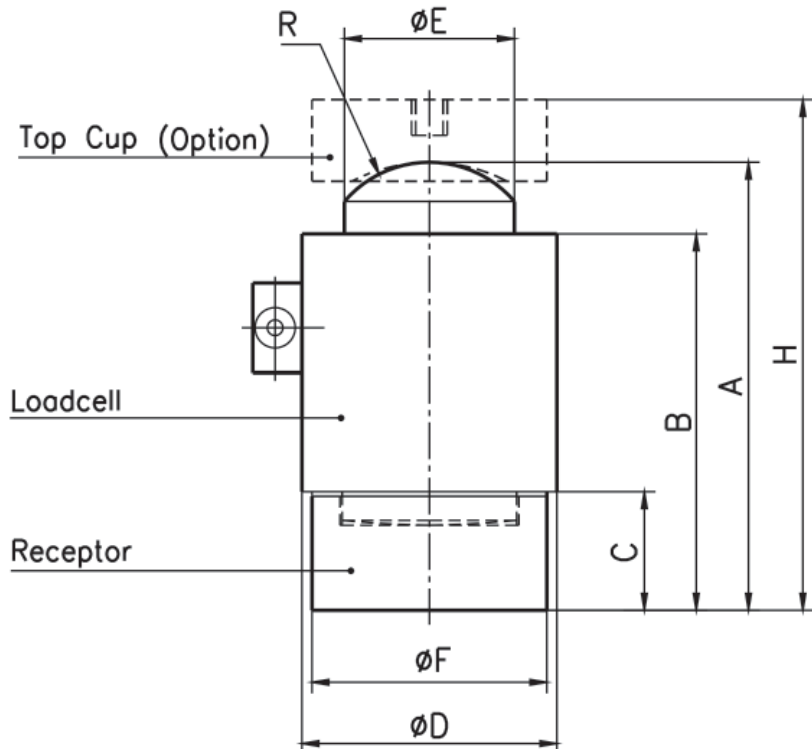
DESCRIPTION

The diameter range goes from 76 to 219 mm and height from 138,5 to 440mm. The load cell is manufactured in stainless steel. Larger load cells than those specified below are available upon request.

The load is detected by strain gauges

connected in a bridge and delivering an analog signal in proportion to the load. The strain gauges are hermetically sealed and finally covered by a metal housing.

MODEL	RATED CAP. (R.C.) t/kN	DIMENSIONS IN mm							Full load deflect (mm)	Net weight (kg)
		A	B	C	D	E	F	H		
WK 100	10/100	138,5	120,5	33	76	38	70	168	0,2	3,3
WK 200	20/200	138,5	120,5	33	76	38	70	168	0,5	3,3
WK 500	50/500	138,5	120,5	28	90	54	70	168	1,2	3,6
WK 1000	100/1000	200	168	53	114	76	105	228	1,6	15,8
WK 2000	200/2000	270	230	70	168	108	143	307	1,9	26,4



GIGASENSE
Force Measurement



Gigasense AB
P.O. Box 123 • SE-184 22 ÅKERSBERGA • Sweden
Phone: +46 (0)8 540 839 00 • Fax: +46 (0)8 540 213 64
e-mail: info@gigasense.se • webb: www.gigasense.se