

GLÖTZL Baumeßtechnik

HYDRAULIC LOAD CELL

Type: KLN . . .
Art. No: 43. . .



Type: KLN 2000 M6

The Glötzl load cell consists of a piston pad with two rigid ring disks which are flexible by turned ring-dovetail grooves at the rims.

The pressure area of this piston pad is filled with a hydraulic fluid and has an exactly defined basic area. By this, a conversion of stress into load is ensured.

Measurement of load cell

- Direct measurement at calibrated manometer, models M, ME and D
- Hydraulic remote control with „GLÖTZL compensation valve“, model VHD
- Electric remote control with piezoelectric pressure converter and temperature sensor, models DK and DKV
- Electric remote control with vibrating wire transducer and thermistor, model VW

Advantages of Glötzl anchor load cell

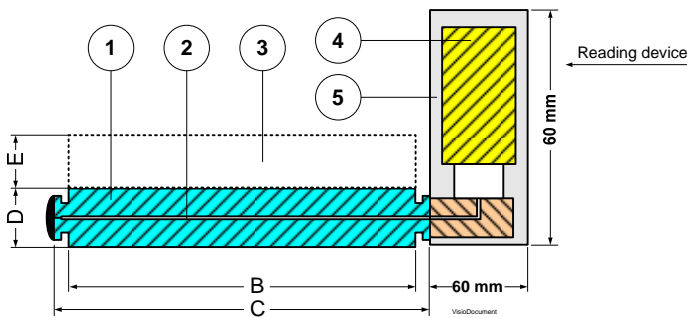
- | | |
|------------------------|--|
| - Hydraulic principle | - Easy assembly |
| - Robust construction | - Small temperature sensitivity |
| - Small overall height | - Insensitive against eccentric loads |
| - Small weight | - Calibration curve not necessary as cell is linearly indicating |

Technical data

- Measuring accuracy +/-1%
- Temperature error at 20 °C, temperature difference 1.2% of load range

Models M, MF and ME with direct reading manometer

Execution: Model M



System and execution:

1. Piston pad
2. Hydraulic fluid
3. Distribution plate (as accessory)
4. Indicating manometer
5. Protection cap

Technical data

Anchor load cell and distribution plate of steel St. 52

Measuring accuracy:

+/-1%

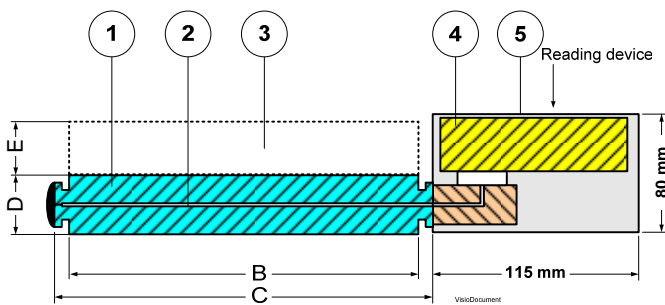
Temperature error:

1.2% at 20 °C temperature difference

Application range:

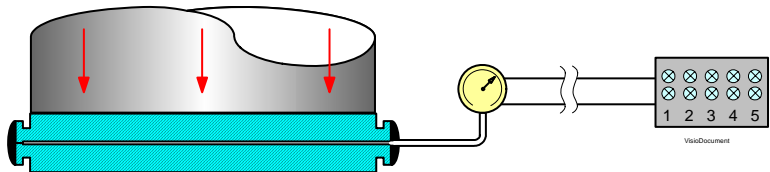
-30 °C up to 60 °C

Execution: Model MF



Model ME:

Like model M resp. MF with manometer. However, the manometer is additionally equipped with adjustable limit value switches for minimal resp. maximum load. The limits can be adjusted and are indicated as signal (lamp) in a central station when exceeding the given limits. The load cell is designed for placing on a plane plate. If this should not be possible, a further distribution plate should be used,



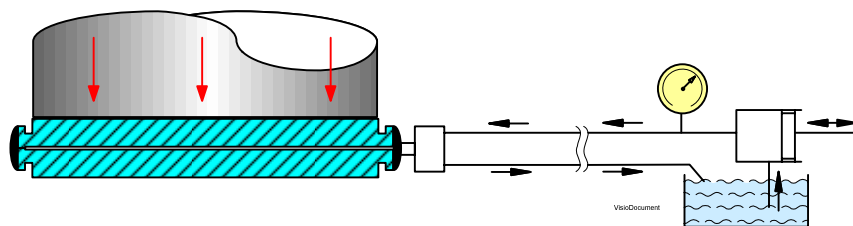
Delivery content: Load cell without distribution plate,
distribution plate as accessory for loading on small basic area

Load ranges and dimensions

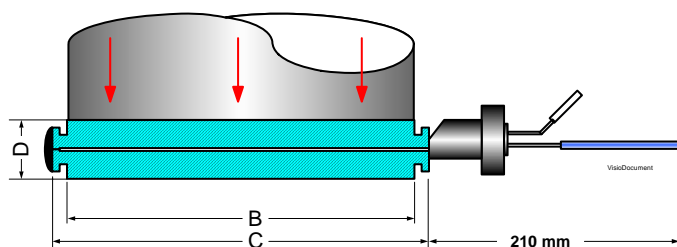
Type KLN . . M, ME, MF.	Load [kN]		Dimensions [mm]				Weight [kgs]	
	nom.	max.	B	C	D	E	Cell	Cell + distribution plate
KLN 120 A M 2,5	120	140	78	98	28	30	3.0	4.5
KLN 250 A M 2,5	250	300	111	132	28	30	4.0	6.5
KLN 500 A M 4	500	600	131	152	28	40	5.0	9.5
KLN 750 A M 4	750	900	161	182	28	40	6.0	12.5
KLN 1000 A M 4	1000	1200	189	210	28	45	8.0	18.0
KLN 2000 A M 6	2000	2400	218	242	30	65	11.0	40.0
KLN 5000 A M 6	5000	6000	358	385	50	85	46.0	113.0

Further load ranges on request

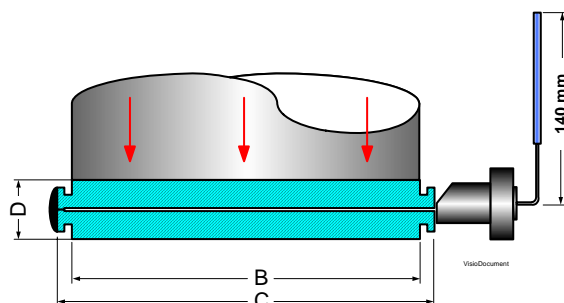
Model VHD, hydraulic remote control with GLÖTZL compensation valve



Model A



Model B



For recording of measuring values of load cells with compensation valve the following devices can be used:

- Hand pump with change-over manifold
- Automatic measuring and recording device
- Electric motorpump with change-over manifold

Load ranges and dimensions

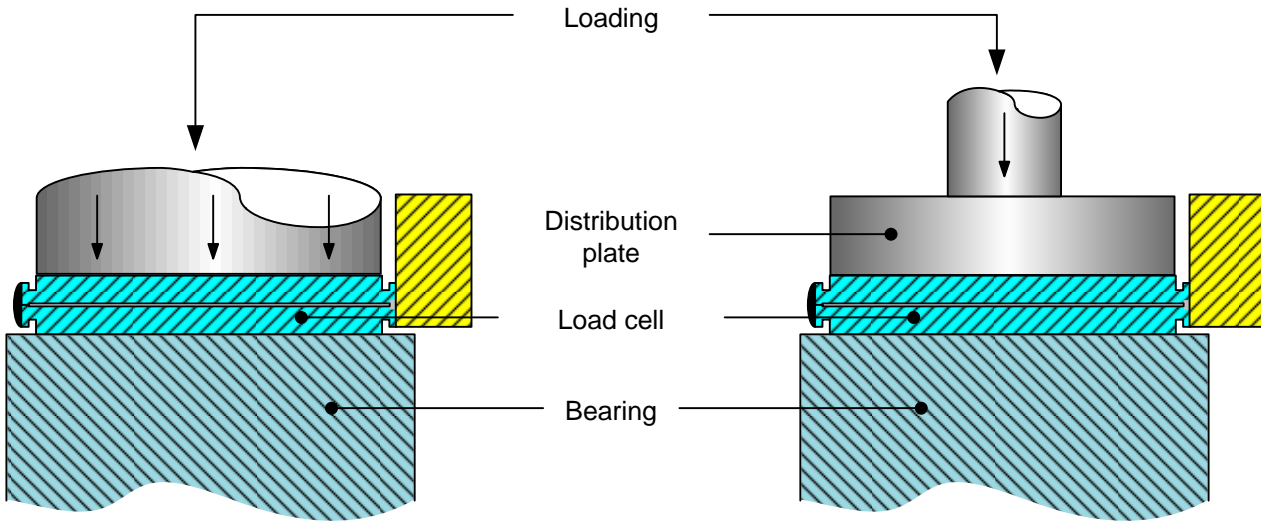
Type KLN . . M, ME, MF.	Load [kN]		Dimensions [mm]				Weight [kgs]	
	nom.	max.	B	C	D	E	Cell	Cell + distribution plate
KLN 120 VHD 2,5	120	140	78	98	28	30	3.0	4.5
KLN 250 VHD 2,5	250	270	111	132	28	30	4.0	6.5
KLN 500 VHD 4	500	580	131	152	28	40	5.0	9.5
KLN 750 VHD 4	750	880	161	182	28	40	6.0	12.5
KLN 1000 VHD 4	1000	1200	189	210	28	45	8.0	18.0
KLN 2000 VHD 4	2000	2400	274	298	30	70	16.0	40.0
KLN 5000 VHD 4	5000	5500	410	438	44	85	32.0	113.0

Further load ranges on request

Mounting of load cell

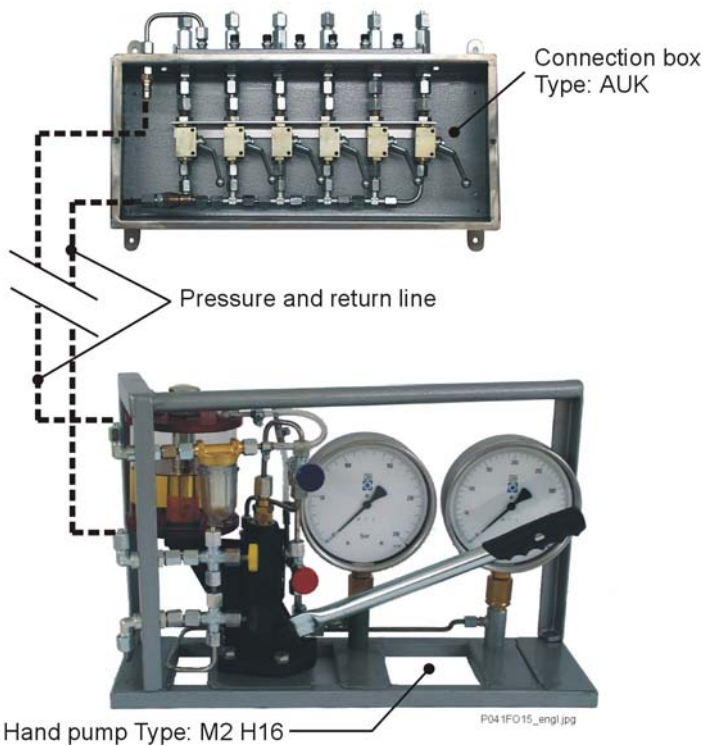
A. Between plane areas with the same area load

B. For loading on a small basic area a distribution plate is needed according to indicated dimension.



Manual measuring equipment

Automatic measuring device



Type MFM71

Subject to technical alterations