

Low Profile Compression Disk



FM

FEATURES

- Capacities: 5K, 10K, 25K, 50K, 100Klb
- Electroless nickel plated alloy tool steel
- Compact size with low profile
- Stainless Steel available
- Surge protection optional for 5K-100Klb

OPTIONAL FEATURES

- FM approval available
- LCD-TT/M/MH with different loading holes

DESCRIPTION

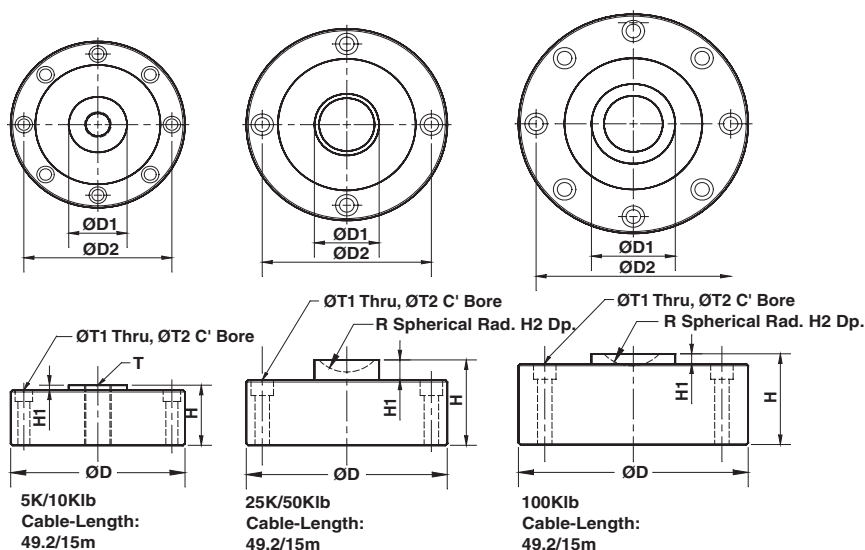
The low profile compression disk is designed as the ultimate solution for some difficult applications with critical height for safety reasons. The shear web design provides excellent performance even when the side force inevitably exists in normal operations. The typical example for side force resistance is the applications in motor truck scales.

LCD is constructed of alloy steel and fully potted with special chemical compounds to IP67 providing excellent protection against moisture and humidity.

APPLICATIONS

- Truck / Rail scales
- Silo / Hopper / Tank weighing
- Universal Material Tester
- Tensile / Pulling Force Measurement

OUTLINE DIMENSIONS



| CAPACITY | | D | D1 | D2 | H | H1 | H2 | R | T | T1 | T2 |
|-------------|--------|-------|------|-------|------|------|------|------|-----------|-------|---------------|
| 5K / 10Klb | mm | 104.7 | 32.0 | 88.9 | 34.8 | 3.05 | ---- | ---- | 5/8-18UNF | 7.2 | 10.5 x 7.2DP |
| | (inch) | 4.12 | 1.26 | 3.50 | 1.37 | 0.12 | ---- | ---- | ---- | 0.28 | 0.41 x 0.28DP |
| 25K / 50Klb | mm | 120.7 | 38.9 | 101.6 | 53.8 | 12.7 | 7.6 | 22.2 | ---- | 8.7 | 13.5 x 9.7DP |
| | (inch) | 4.75 | 1.53 | 4.00 | 2.12 | 0.50 | 0.30 | 0.87 | ---- | 0.34 | 0.53 x 0.38DP |
| 100Klb | mm | 138 | 50.4 | 116.8 | 57.2 | 6.4 | 7.6 | 22.2 | ---- | 10.13 | 16.5 x 11.0DP |
| | (inch) | 5.43 | 1.98 | 4.60 | 2.25 | 0.25 | 0.30 | 0.87 | ---- | 0.41 | 0.65 x 0.43DP |

**SPECIFICATIONS**

| PARAMETER | VALUE | UNIT |
|---|---------------------------|-----------------------|
| NTEP/OIML Accuracy class | Non-Approved | |
| Maximum no. of intervals (n) | 2000 | |
| $Y = E_{\max}/V_{\min}$ | 5000 | Maximum available |
| Standard capacities (E_{\max}) | 5K, 10K, 25K, 50K, 100K | lbs |
| Rated output-R.O. | 4.0 | mV/V |
| Rated output tolerance | 0.25 | ±% of rated output |
| Zero balance | 1 | ±% of rated output |
| Non linearity | 0.050 | ±% of rated output |
| Hysteresis | 0.050 | ±% of rated output |
| Non-repeatability | 0.020 | ±% of rated output |
| Creep error (20 minutes) | 0.030 | ±% of rated output |
| Zero return (20 minutes) | 0.030 | ±% of rated output |
| Temperature effect on min. dead load output | 0.0026 | ±% of rated output/°C |
| Temperature effect on sensitivity | 0.0015 | ±% of applied load/°C |
| Compensated temperature range | -10 to +40 | °C |
| Operating temperature range | -20 to +60 | °C |
| Safe overload | 150 | % of R.C. |
| Ultimate overload | 300 | % of R.C. |
| Excitation, recommended | 10 | Vdc or Vac rms |
| Excitation, maximum | 15 | Vdc or Vac rms |
| Input impedance | 385±5* | Ohms |
| Output impedance | 350±3** | Ohms |
| Insulation resistance | >5000 | Mega-Ohms |
| Construction | Nickel plated alloy steel | |
| Environmental protection | IP67 | |

* 770±10 Ohms for 100Klbs.

** 700±5 Ohms for 100Klbs.

All specifications listed subject to change without notice.

FM Approval

Intrinsically Safe: Class I, II, III; Div. 1 Groups A-G

Non-Incendive: Class I; Div. 2 Groups A-D

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