

## Low Profile Compression Disk

### FEATURES

- Capacities: 5k, 10k, 25k, 50k, 100k lbs
- Electroless nickel-plated alloy tool steel
- Compact size with low profile
- Surge protection optional for 5k–100k lbs
- **Optional**
  - Stainless steel version available
  - FM approval available
  - LCD-TT/M/MH with different loading holes



### APPLICATIONS

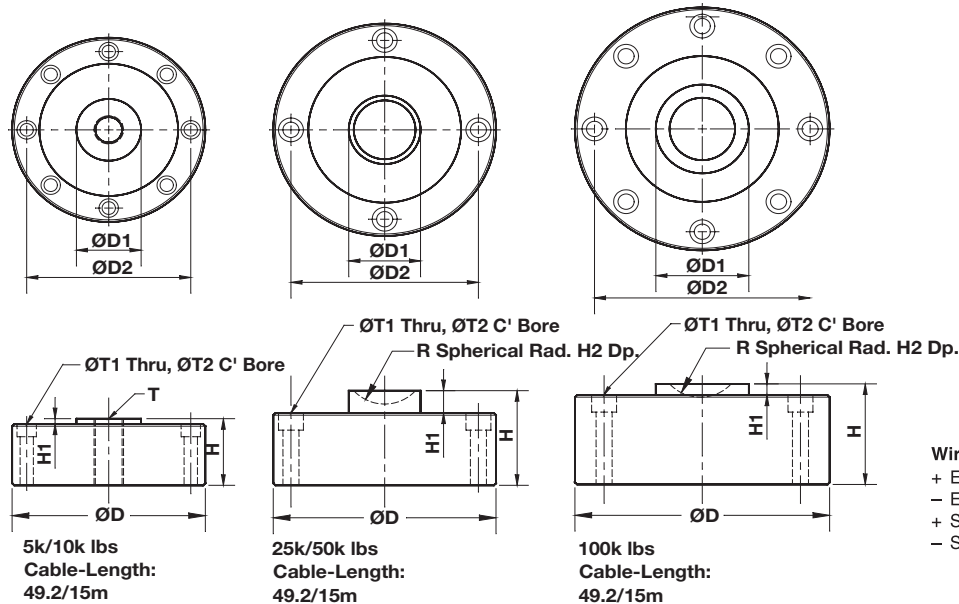
- Truck/rail scales
- Silo/hopper/tank weighing
- Universal material tester
- Tensile/pulling force measurement

### DESCRIPTION

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

The low profile compression disk is designed as the ultimate solution for some difficult applications in which height is a major safety concern. The shear web design provides excellent performance even when side force inevitably exists in normal operations. A typical example of such side force can be found in motor truck scales, making the model LCD perfect for such applications.

### OUTLINE DIMENSIONS



CAPACITY		D	D <sub>1</sub>	D <sub>2</sub>	H	H <sub>1</sub>	H <sub>2</sub>	R	T	T <sub>1</sub>	T <sub>2</sub>
5k/10k lbs	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/50k lbs	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
100k lbs	mm	138	50.4	116.8	57.2	6.4	7.6	2.2	---	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

Low Profile Compression Disk

<b>SPECIFICATIONS</b>		
<b>PARAMETER</b>	<b>VALUE</b>	<b>UNIT</b>
<b>NTEP/OIML accuracy class</b>	Non-Approved	
<b>Maximum no. of intervals (n)</b>	2000	
<b>Y = E<sub>max</sub>/V<sub>min</sub></b>	5000	Maximum available
<b>Standard capacities (E<sub>max</sub>)</b>	5k, 10k, 25k, 50k, 100k	lbs
<b>Rated output—R.O.</b>	4.0	mV/V
<b>Rated output tolerance</b>	0.25	±% of rated output
<b>Zero balance</b>	1	±% of rated output
<b>Non-linearity</b>	0.050	±% of rated output
<b>Hysteresis</b>	0.050	±% of rated output
<b>Non-repeatability</b>	0.020	±% of rated output
<b>Creep error (20 minutes)</b>	0.030	±% of rated output
<b>Zero return (20 minutes)</b>	0.030	±% of rated output
<b>Temperature effect on min. dead load output</b>	0.0026	±% of rated output/°C
<b>Temperature effect on sensitivity</b>	0.0015	±% of applied load/°C
<b>Compensated temperature range</b>	-10 to +40	°C
<b>Operating temperature range</b>	-20 to +60	°C
<b>Safe sideload</b>	150	% of R.C.
<b>Ultimate overload</b>	300	% of R.C.
<b>Excitation, recommended</b>	10	VDC or VAC RMS
<b>Excitation, maximum</b>	15	VDC or VAC RMS
<b>Input impedance</b>	385±5*	Ω
<b>Output impedance</b>	350±3**	Ω
<b>Insulation resistance</b>	>5000	MΩ
<b>Construction</b>	Nickel-plated alloy steel	
<b>Environmental protection</b>	IP67	

\* 770±10 Ohms for 100k lbs

\*\* 700±5 Ohms for 100k lbs

All specifications 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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