

HIGH CAPACITY CALIBRATION STANDARD (CS) SERIES LOAD

FEATURES

- Designed for Metrology Lab Use
- Meets ASTM E74 Class A to 4% of Range, Class AA to 20% of Range (When Calibrated with Primary Standards)
- Guaranteed Maximum Off-Center Load & Moment Error
- Low Creep
- Lowest Reproducibility Errors
- Includes ASTM E74 Tension & Compression Transfer Standard Calibration
- Temperature Compensated
- Proprietary Modulus Compensated Strain Gages



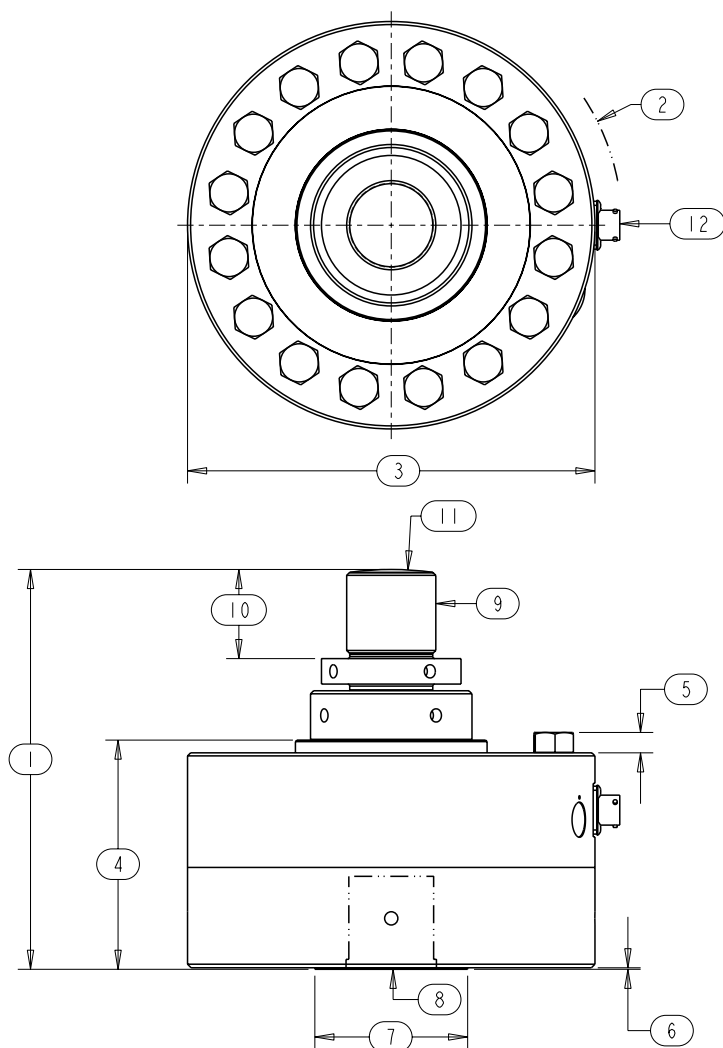
SPECIFICATIONS

Model		CS40	CS42	CS45	CS62	CS80
Capacity	U.S. lbf.	200K	270K	300K, 400K	500K, 600K	750K, 1000K
PARAMETERS	Metric kN	1000	1200	1400, 1800	2200, 2700	3300, 4500
ACCURACY						
Lower Load Limit % Rated Output		4.000	4.000	4.000	4.000	4.000
Static Error Band, % Rated Output		+/-0.050	+/-0.060	+/-0.100	+/-0.100	+/-0.120
Nonlinearity, % Rated Output		+/-0.050	+/-0.060	+/-0.100	+/-0.100	+/-0.120
Hysteresis, % Rated Output		+/-0.050	+/-0.060	+/-0.100	+/-0.100	+/-0.120
Nonrepeatability, % Rated Output		+/-0.005	+/-0.005	+/-0.010	+/-0.010	+/-0.010
Creep, % in 20 minutes		+/-0.010	+/-0.015	+/-0.015	+/-0.015	+/-0.015
Off-Center Load Sensitivity, %/inch		+/-0.100	+/-0.100	+/-0.200	+/-0.200	+/-0.200
Side Load Sensitivity, %		+/-0.100	+/-0.100	+/-0.200	+/-0.200	+/-0.200
Zero Balance, % Rated Output		+/-1.0	+/-1.0	+/-1.0	+/-1.0	+/-1.0
TEMPERATURE						
Range, Compensated, °F		+15 to +115	+15 to +115	+15 to +115	+15 to +115	+15 to +115
Range, Compensated, °C		-10 to +45	-10 to +45	-10 to +45	-10 to +45	-10 to +45
Range, Operating, °F		-65 to +200	-65 to +200	-65 to +200	-65 to +200	-65 to +200
Range, Operating, °C		-55 to +90	-55 to +90	-55 to +90	-55 to +90	-55 to +90
Effect on Sensitivity, % Rdg/ °F		+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008
Effect on Sensitivity, % Rdg/ °C		+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015
Effect on Zero, % Rated Output/ ° F		+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008	+/-0.0008
Effect on Zero, % Rated Output/ ° C		+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015	+/-0.0015
ELECTRICAL						
Rated Output, mV/V, Nominal		4	4	4	4	4
Excitation Voltage, VDC Maximum		20	20	20	20	20
Input Resistance, Ohms		350	350	350	350	350
Output Resistance, Ohms		350	350	350	350	350
Insulation Resistance, Megohm		5000	5000	5000	5000	5000
Bayonet Connector		PT02E-10-6P (MS3112E-10-6P) Included Protector				
MECHANICAL						
Safe Overload Range, % Rated Capacity		+/-150	+/-150	+/-150	+/-150	+/-150
Weight lb		166	176	277	519	660
Weight kg		75	80	125	235	300
Flexure Material		Steel	Steel	Steel	Steel	Steel

HIGH CAPACITY CALIBRATION STANDARD (CS) SERIES LOAD CELLS

DIMENSIONS

Model	CS40	CS40M	CS42	CS42M	CS45	CS45M	CS62	CS62M	CS80	CS80M
Capacity	200K lbf	1000 kN	270K lbf	1200 kN	300K, 400K lbf	1400, 1800 kN	500K, 600K lbf	2200, 2700 kN	750K, 1000K lbf	3300, 4500 kN
Dimensions	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1.	11.58	290.6	13.08	332.2	13.87	352.3	17.67	448.8	24.29	616.9
2.	R 6.16	R 156.5	R 6.16	R 156.5	R 6.78	172.2	R 8.65	R 219.7	R 10.89	R 276.6
3.	11.00	279.4	11.00	279.4	12.25	311.2	16.00	406.4	20.50	520.7
4.	6.50	165.1	8.00	203.2	8.75	222.3	10.25	260.4	13.00	330.2
5.	0.60	15.2	0.60	15.2	0.60	15.2	0.92	23.4	.77	19.5
6.	0.03	0.8	0.03	0.8	0.03	0.8	0.03	0.8	0.03	0.8
7.	4.83	122.7	4.83	122.7	5.70	144.8	7.89	200.4	10.00	254
8.	2 3/4 - 8 2.70 Deep	M72 x 2 68.6 Deep	2 3/4 - 8 3.70 Deep	M72 x 2 94.0 Deep	3-12 3.90 Deep	M76 x 2 99.1 Deep	4 - 8 4.65 Deep	M100 x 3 118.1 Deep	6 - 8 5.4 Deep	M150 x 3 137.1 Deep
9.	2 3/4 - 8	M72 x 2	2 3/4 - 8	M72 x 2	3-12	M76 x 2	4 - 8	M100 x 3	6 - 8	M150 x 3
10.	2.50	63.5	2.50	63.5	2.50	63.5	3.50	88.9	4.7	119.3
11.	R 12	R 305	R 12	R 305	R 12	R 305	R 20	R 508	R 20	R 508



OPTIONS

Additional bridges
Output adjustment to standard
Compression overload protection
Integral cable
Custom connectors
Connector Protectors

ACCESSORIES

Mating connector
Loading fixtures
Interconnect cable
Shunt calibration resistor
Instrumentation