

LW LOAD WASHER (U.S. & METRIC)

FEATURES & BENEFITS

- Capacities from 5 to 200k lbf (0.02 to 444.8 N)
- Wide selection of OD, ID, and height (as low as 0.25 in or 6.4 mm) combinations
- Stainless steel construction

OPTIONS

- Cable length
- Add connector to cable
- Transducer Electronic Data Sheet (TEDS)
- Custom calibration accessories

CONNECTOR OPTIONS

- 5 ft (1.5 m) integral cable (LW)

STANDARD CONFIGURATION



Model LW (Shown)

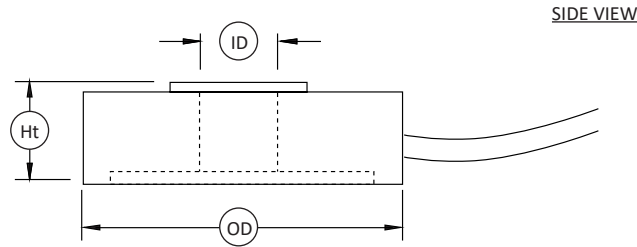
ACCESSORIES

- Instrumentation

SPECIFICATIONS

PARAMETERS		MODEL	
		LW10xx LW12xx	LW15xx LW20xx LW25xx LW30xx LW31xx LW40xx LW45xx
ACCURACY – (MAX ERROR)			
Combined Error – %FS	±1.0	±0.5	±3.0
TEMPERATURE			
Compensated Range	°F	+60 to +160	
	°C	+16 to +71	
Operating Range	°F	-65 to +250	
	°C	-54 to +121	
Effect On Zero – %RO / deg	°F	±0.005	
	°C	±0.009	
ELECTRICAL			
Rated Output – mV/V (Nominal)		2.00	
Bridge Resistance – Ohm (Nominal)		350	
Excitation Voltage – VDC MAX		15	
MECHANICAL			
Safe Overload – % of RO		150	
Deflection @ R.O.	in	0.003	
	mm	0.08	
Material		Stainless steel	

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DIMENSIONS

MODEL LW	OD		ID		HEIGHT		CAPACITY	
	in	mm	in	mm	in	mm	U.S. (lbf)	Metric (kN)
1010	1.00	25.4	0.100	2.54	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1012	1.00	25.4	0.125	3.18	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1019	1.00	25.4	0.188	4.78	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1020	1.00	25.4	0.200	5.08	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1025	1.00	25.4	0.250	6.35	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1210	1.25	31.75	0.100	2.54	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1212	1.25	31.75	0.125	3.18	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1219	1.25	31.75	0.188	4.78	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1220	1.25	31.75	0.200	5.08	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1225	1.25	31.75	0.250	6.35	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1231	1.25	31.75	0.312	7.92	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1238	1.25	31.75	0.375	9.53	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1510	1.50	38.1	0.100	2.54	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1513	1.50	38.1	0.125	3.18	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1520	1.50	38.1	0.200	5.08	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1525	1.50	38.1	0.250	6.35	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1531	1.50	38.1	0.312	7.92	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1538	1.50	38.1	0.375	9.53	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1550	1.50	38.1	0.500	12.70	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
2013	2.00	50.8	0.125	3.18	*		5, 10, 25, 50, 250, 500, 1K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45
2019	2.00	50.8	0.188	4.78	*		5, 10, 25, 50, 250, 500, 1K, 2K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90
2025	2.00	50.8	0.250	6.35	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
2038	2.00	50.8	0.375	9.53	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K, 7.5K, 10K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2, 33.4, 44.5
2050	2.00	50.8	0.500	12.70	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K, 7.5K, 10K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2, 33.4, 44.5
2063	2.00	50.8	0.625	15.88	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
2075	2.00	50.8	0.750	19.05	*		250, 500, 1K, 2K, 3K, 5K	1.11, 2.22, 4.45, 8.90, 22.2
2088	2.00	50.8	0.875	22.23	*		250, 500, 1K, 2K, 3K	1.11, 2.22, 4.45, 8.90, 13.3
20100	2.00	50.8	1.000	25.40	*		500, 1K, 2K	2.22, 4.45, 8.90
2525	2.50	63.5	0.250	6.35	1.00	25.4	1K, 2K, 3K	4.45, 8.90, 13.3
2538	2.50	63.5	0.375	9.53	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
2550	2.50	63.5	0.500	12.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
2563	2.50	63.5	0.625	15.88	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
2575	2.50	63.5	0.750	19.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
2588	2.50	63.5	0.875	22.23	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8

*Height is 0.37" for 5 lb thru 100 lb. Height is 0.63" for 250 lb thru 10k lb.

**Height is 1.00" for 1k thru 40k lb.

U.S. dimensions and capacities are provided for conversion only. Standard products have International System of Units (SI) capacities and dimensions.

LW LOAD WASHER (U.S. & METRIC)

DIMENSIONS CONTINUED

MODEL LW	OD		ID		HEIGHT		CAPACITY	
	in	mm	in	mm	in	mm	U.S. (lbf)	Metric (kN)
2594	2.50	63.5	0.938	23.83	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
25100	2.50	63.5	1.000	25.40	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
25113	2.50	63.5	1.130	28.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
25125	2.50	63.5	1.250	31.75	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
25138	2.50	63.5	1.380	35.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
25150	2.50	63.5	1.500	38.10	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
3025	3.00	76.2	0.250	6.35	1.00	25.4	1K, 2K, 3K	4.45, 8.90, 13.3
3038	3.00	76.2	0.375	9.53	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
3050	3.00	76.2	0.500	12.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
3063	3.00	76.2	0.625	15.88	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
3075	3.00	76.2	0.750	19.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
3088	3.00	76.2	0.875	22.23	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
3094	3.00	76.2	0.938	23.83	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
30100	3.00	76.2	1.000	25.40	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133.4, 177.9, 222.4, 333.6, 444.8
30113	3.00	76.2	1.130	28.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
30125	3.00	76.2	1.250	31.75	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
30138	3.00	76.2	1.380	35.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
30150	3.00	76.2	1.500	38.10	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
31200	3.13	79.5	2.000	50.80	0.50	12.7	1K, 3K, 5K	4.45, 13.3, 22.2
31213	3.13	79.5	2.130	54.10	0.50	12.7	1K, 3K, 5K	4.45, 13.3, 22.2
40200	4.00	101.6	2.00	50.8	**		1K, 3K, 5K, 10K, 25K, 50K, 100K, 200K	4.45, 13.3, 22.2, 44.5, 111.2, 222.4, 444.8, 889.6
40213	4.00	101.6	2.130	54.10	**		1K, 3K, 5K, 10K, 25K, 50K, 100K, 200K	4.45, 13.3, 22.2, 44.5, 111.2, 222.4, 444.8, 889.6
45300	4.50	114.3	3.000	76.20	1.25	31.8	1K, 3K, 5K, 10K	4.45, 13.3, 22.2, 44.5
45313	4.50	114.3	3.130	79.50	1.25	31.8	1K, 3K, 5K, 10K	4.45, 13.3, 22.2, 44.5

*Height is 0.37" for 5 lb thru 100 lb. Height is 0.63" for 250 lb thru 10k lb.

**Height is 1.00" for 1k thru 40k lb.

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