

✓ Standard threaded tension/compression rod end

✓ Temperature compensated  
✓ Barometric pressure compensated

✓ Solid connector protector to ensure durability in shipping and handling

✓ Low creep  
✓ Low height  
✓ Low susceptibility to magnetic fields

✓ Low susceptibility to eccentric loading

## Standard Features

- » ASTM E74 performance: Lower Limit Factor (LLF) better than 0.005 %, Class A better than 2 %, and Class AA better than 10 % of capacity.
- » ISO 376 Class 00 performance range
- » Compression and/or tension modes
- » Capacities from 100–200,000 lbf, or equivalent kgf/Newton
- » Calibration to Primary deadweight standards available
- » Available accessories such as: Quick-Change Tension Members, custom-cut protective cases, various indicators

More Accuracy

Morehouse  
Shear Web Models

Ultra-Precision Shear Web

Precision Shear Web

Calibration Shear Web

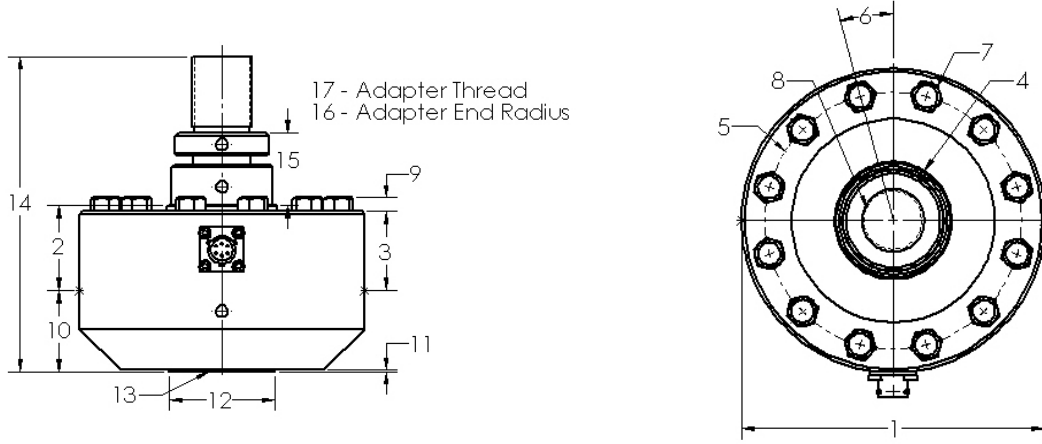


## Technical Specifications

Specifications	Model - Capacity (lbf / kN)				
	300-2K / 1-10	5K-10K / 20-50	25K-50K / 100-250	100K / 500	200K / 900
<b>Accuracy</b>					
Static Error Band, % R.O.	±0.02	± 0.03	± 0.03	± 0.03	± 0.03
Non-Linearity, % R.O.	±0.02	± 0.03	± 0.03	± 0.03	± 0.03
Hysteresis, % R.O.	± 0.02	± 0.04	± 0.04	± 0.04	± 0.04
Non-Repeatability, % R.O.	± 0.005	± 0.005	± 0.05	± 0.05	± 0.05
Creep, % Rdg / 20 Min.	± 0.015	± 0.015	± 0.015	± 0.015	± 0.015
Off-Center Load Sensitivity, %/in	±0.05	± 0.05	± 0.05	± 0.05	± 0.05
Side Load Sensitivity, %	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05
Zero Balance, % R.O.	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
<b>Temperature</b>					
Range, Compensated, °F	+15 to +115	+15 to +115	+15 to +115	+15 to +115	+15 to +115
Range, Operating, °F	-65 to +200	-65 to +200	-65 to +200	-65 to +200	-65 to +200
Sensitivity Effect, % Rdg / 100°F	0.08	0.08	0.08	0.08	0.08
Zero Effect, % R.O. / 100°F	0.08	0.08	0.08	0.08	0.08
<b>Electrical</b>					
Recommended Excitation, VDC	10	10	10	10	10
Input Resistance, Ω	350 +40/-3.5	350 +40/-3.5	350 +40/-3.5	350 +40/-3.5	350 +40/-3.5
Output Resistance, Ω	350 ± 3.5	350 ± 3.5	350 ± 3.5	350 ± 3.5	350 ± 3.5
Sensitivity (R.O.), mV/V, Nominal	2	4	4	4	24
Insulation Bridge/Case, MegΩ	5000 @50 VDC	5000 @50 VDC	5000 @50 VDC	5000 @50 VDC	5000 @50 VDC
<b>Mechanical</b>					
Safe Overload, % R.O.	150	150	150	150	150
Weight, lbs	1.0	2.9	9.1	23.5	59
Weight w/Base, lbs	2.5	6.5	21.5	52.5	139
Flexure Material	Aluminum	Steel	Steel	Steel	Steel



**Dimensions**



Dimensions	Model - Capacity (lbf / kN)				
	300-2K / 1-10	5K-10K / 20-50	25K-50K / 100-250	100K / 500	200K / 900
1 - Cell & Base Diameter (in/mm)	4.12 / 104.65	4.12 / 104.65	6.06 / 153.92	8.00 / 203.20	10.90 / 276.86
2 - Cell Height to Hub (in/mm)	1.38 / 35.05	1.38 / 35.05	1.75 / 44.45	2.50 / 63.50	3.50 / 88.90
3 - Cell Body Height (in/mm)	1.25 / 31.75	1.25 / 31.75	1.63 / 41.40	2.25 / 57.15	3.00 / 76.20
4 - Hub Diameter (in/mm)	1.29 / 32.77	1.29 / 32.77	2.34-2.58 / 59.44-65.53	3.76 / 95.50	4.81 / 122.17
5 - Mounting B.C. Diameter (in/mm)	3.50 / 88.90	3.50 / 88.90	5.13 / 130.30	6.50 / 165.10	9.00 / 228.60
6 - Symmetric B.C. Offset	22.5 Degrees	22.5 Degrees	15 Degrees	11.25 Degrees	11.25 Degrees
7 - Mounting Hole Diameter (in/mm)	0.28 / 7.11	0.28 / 7.11	0.41 / 10.41	0.53 / 13.46	0.78 / 19.81
8 - Hub Thread Size, Depth (in-TPI)	0.625"-18, UNF-3B	0.625"-18, UNF-3B	1.25"-12, UNF-3B	1.75"-12, UNF-3B	2.75"-8, UNF-3B
9 - Bolt Head Protrusion (in/mm)	0.20 / 5.08	0.20 / 5.08	0.30 / 7.62	0.40 / 10.16	0.60 / 15.24
10 - Base Thickness, Total (in/mm)	1.13 / 28.70	1.13 / 28.70	1.75 / 44.45	2.00 / 50.80	3.00 / 76.20
11 - Base Step Height (in/mm)	0.03 / 0.76	0.03 / 0.76	0.03 / 0.76	0.03 / 0.76	0.03 / 0.76
12 - Base Step Diameter (in/mm)	1.25 / 31.75	1.25 / 31.75	2.25 / 57.15	3.00 / 76.20	4.83 / 122.68
13 - Base Thread Size, Depth (in-TPI)	0.625"-18, UNF-3B	0.625"-18, UNF-3B	1.25"-12, UNF-3B	1.75"-12, UNF-3B	2.75"-8, UNF-3B
14 - Total Height (in/mm)	4.19 / 106.43	4.19 / 106.43	6.44 / 163.58	7.88 / 200.15	-
15 - Adapter Thread Length (in/mm)	0.75 / 19.05	0.75 / 19.05	1.50 / 38.10	1.75 / 44.45	2.75 / 69.85
16 - Adapter End Radius (in/mm)	6.00 / 152.40	6.00 / 152.40	6.00 / 152.40	12.00 / 304.80	-
17 - Adapter Thread Size (in-TPI)	0.625"-18	0.625"-18	1.25"-12	1.75"-12	2.75"-8



## Wiring

Ultra Precision Shear Web	
Connector Pin	Description
Pin A	Excitation +
Pin B	Signal +
Pin C	Signal -
Pin D	Excitation -

