

## INSTALLATION INFORMATION

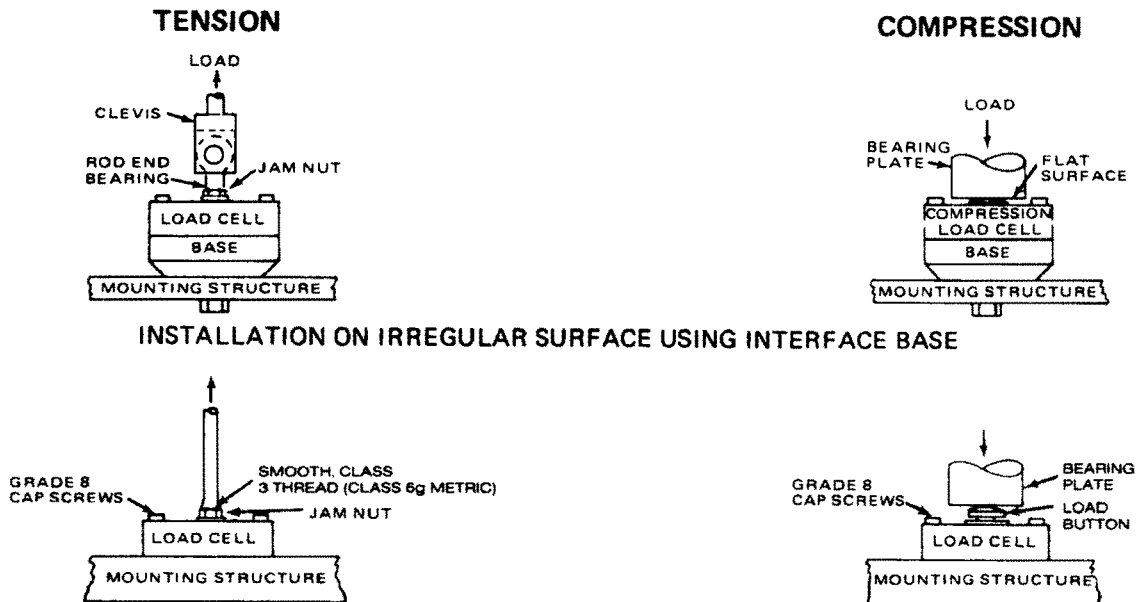
### 1000, 1100, 1200 SERIES LOAD CELLS

#### INSTALLATION INFORMATION

- Interface 1000, 1100, 1200 Series Load Cells must be mounted on a surface that is flat to 0.0002 inch, and rigid enough so as not to deform appreciably under load. An easy way to obtain the flat rigid surface is by using an Interface supplied base or mounting plate. Where this is not practical, a rigid surface equivalent to the appropriate Interface base or mounting plate will suffice. Interface load cells respond to forces in the axis perpendicular to the mounting surface. Load cell response to a non-axial force is proportional to that force times the cosine of the angle it makes with the loading axis.
- When installing these load cells on any surface other than on an Interface base or mounting plate, the Grade 8 cap screws holding the cell to the mounting surface must be tightened to the value shown in the torque chart.
- 1000 Series Load Cells must have jam nuts tightened to the value shown in the table below, to avoid thread damage.
- For best performance of Series 1100 and 1200 Load Cells, the use of jam nuts is recommended. The jam nuts should be installed as indicated in the table below.
- Rod end bearings, or threaded adapters, should have smooth threads and class 3 fit.\* They should be installed hand tight and backed off 1 turn prior to tightening jam nut as indicated in the table below.
- Bearing Plates should be hardened steel (Rc 45 or higher) when mating with a load button or steel load cells. For aluminum compression only load cells, mild steel bearing plate may be used.
- To eliminate potential reading errors, the outer rim or base of the load cell and its connecting electrical cable should be mounted on the fixed or non-moving structure.

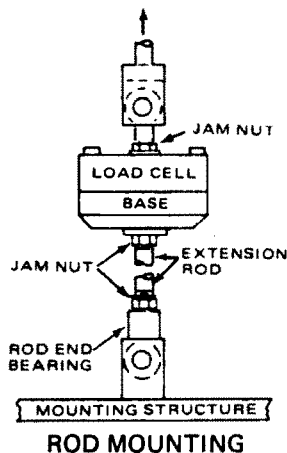
\*Class 6g Metric.

#### TYPICAL INSTALLATIONS



INSTALLATION ON IRREGULAR SURFACE USING INTERFACE BASE

INSTALLATION ON SURFACE FLAT WITHIN 0.0002 INCH, PERPENDICULAR TO LOAD AXIS WITHIN 1 DEGREE  
GRADE 8 CAP SCREWS TO BE TIGHTENED TO THE VALUE SHOWN IN THE TORQUE CHART.



ROD MOUNTING

LOAD CELL MOUNTING SCREW TORQUE (Applicable for Load Cells Supplied without bases)				THREADED ADAPTOR INSTALLATION		
MODEL	Grade 8 Cap Screws Installation Torque SIZE	Grade 8 Cap Screws Installation Torque		MODEL	Jam nut or Load Button Installation	
		ft. lb	N·m		ft. lb	N·m
1010, 1110, 1111, 1210, 1211 (Alum)	1/4 - 28	5	7	1110-300, 1210-300	10	13
1010, 1110, 1111, 1210, 1211 (Steel)	1/4 - 28	10	14	1010-250, 1110-500, 1210-500	15	20
1221	5/16 - 24	25	34	1010-500, 1110-1K, 1210-1K	25	34
1020, 1120, 1121, 1220	3/8 - 24	45	60	1010-1K, 1110-2K, 1210-2K	50	68
1231	7/16 - 20	80	110	2.5K-10K	100	135
1232, 1232	1/2 - 20	120	160	Above 10K*		
1040, 1240, 1241	5/8 - 18	250	340			

\* Does not apply to Load Buttons. See Load Button Installation Sheet.

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Warranty & Certification Statement on other side