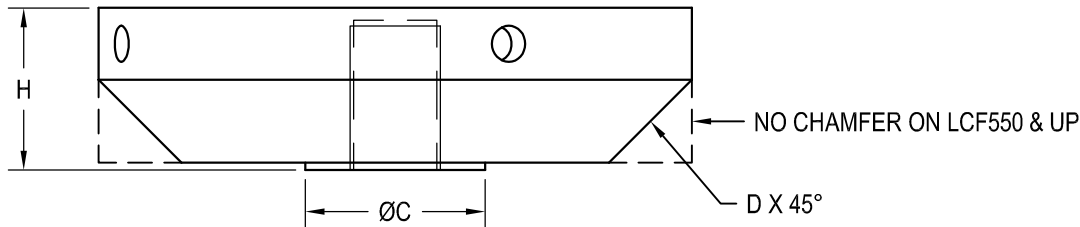
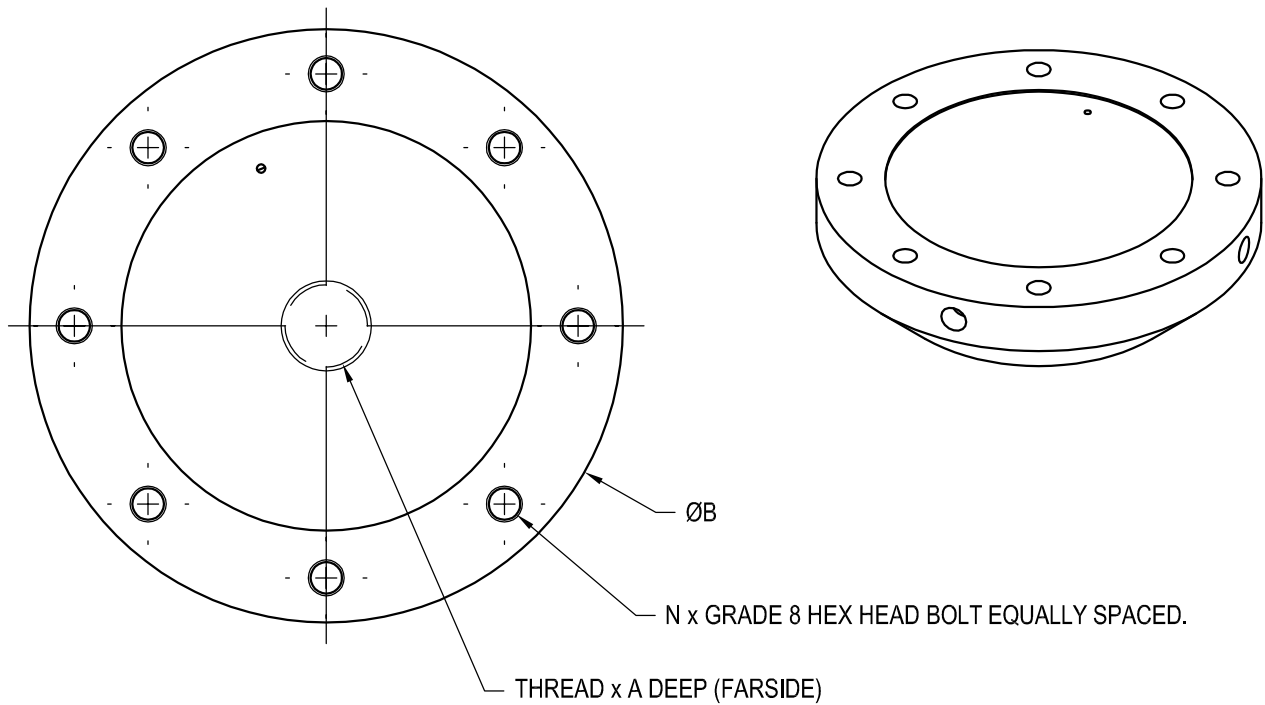


# FUTEK MODEL ZAC150

## TENSION BASE w/ MOUNTING HARDWARE FOR FUTEK LCF SERIES LOAD CELLS

Drawing Number: FI1260-A

INCH [mm] R.O.= Rated Output

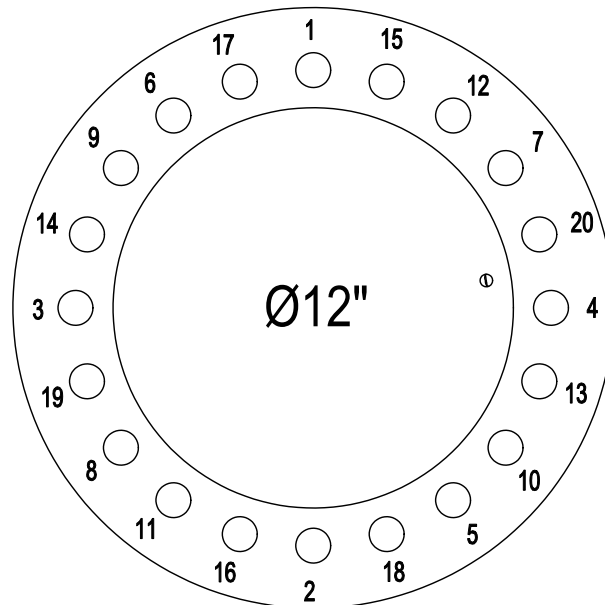
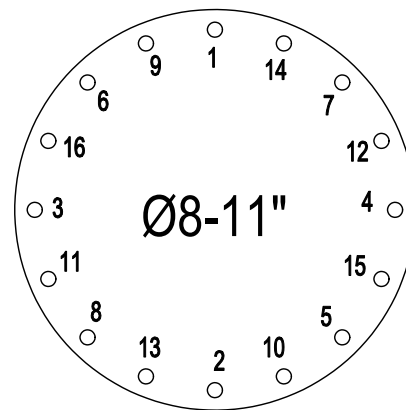
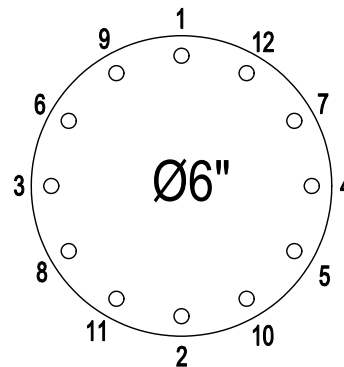
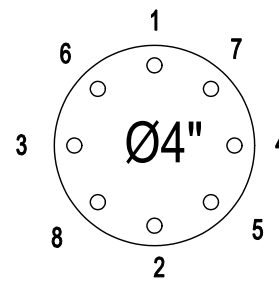


STOCK NO:	FOR MODEL	THREAD	A	ØB	ØC	D	H	N	BOLT	MATERIAL						
FSH02371	LCF450/451	5/8-18	1.00[25.4]	4.13 [104.8]	1.25 [31.7]	0.58 [14.7]	1.13[28.7]	8	1/4-28	S.S.						
FSH02372										AL						
FSH02373		M16x2								S.S.						
FSH02374										AL						
FSH02375	LCF500/501	1 1/4-12	1.25[31.7]	5.98[151.9]	2.25[57.1]	0.89 [22.6]	1.75[44.5]	12	3/8-24	S.S.						
FSH02376		M33x2		8.00[203.2]							3.50[88.9]	0.06 [1.5]	2.00[50.8]			
FSH02377	LCF550/551	1 3/4-12		16										1/2-20		
FSH02852		M42x2														
FSH02378	LCF650/651	2 3/8-8	2.50[63.5]		11.0[279]	5.0[126]	0.06 [1.5]	3.5[89]	5/8-18							
FSH03093		M72x2														
FSH02449	LCF700/701	3 1/2-8		3.75[95.2]							12.0[305]	6.0[152]	0.06 [1.5]	4.5[114.]	20	3/4-16
FSH03094		M90x3														

SEE FI1202 FOR BOLT TORQUE & TIGHTENING PATTERN

**DRY TORQUE SPEC. FOR HEX HEAD BOLTS**

No. OF HOLES	SIZE	CAPACITY	SCREWS SIZES	GRADE 8 (in-lb)
8	Ø4"	250-10K lb	1/4-28	95
12	Ø6"	10K-50K lb	3/8-24	600
16	Ø8"	100-150 K lb	1/2-20	1400
16	Ø11"	250K lb	5/8-18	3000
20	Ø12"	400K lb	3/4-16	4800



- 1) ALWAYS HAVE SENSOR PLUGGED IN DURING INSTALLATION AND HANDLING TO MONITOR OUTPUT TO AVIOD PERMANENT ZERO SHIFT AND OVERLOAD.
- 2) IT IS RECOMMENDED TO USE SIMILAR MATING SURFACE MATERIALS. THIS WILL REDUCE THE ERROR CAUSED BY THERMAL EXPANSION AND WILL MAINTAIN THE SPECIFICATIONS PROVIDED BY FUTEK.
- 3) FOR IMPROVED ACCURACY AND REDUCED ZERO SHIFT DURING MOUNTING AND BOLD TIGHTENING MAKE SURE THE PLATE IS AS FLAT AS POSSIBLE. FOR OPTIMUM ACCURACY THE MOUNTING PLATE SHOULD BE WITHIN 0.0002 FLATNESS. IF WELDING OR HEAT-TREATING IS PERFORMED AFTER GRINDING ON THE MOUNTING PLATE, RE-VERIFY THAT THE SURFACE MAINTAINED ITS FLATNESS. (HEATING OF MATERIALS CAN CAUSE WARPAGE)
- 4) MAKE SURE THAT THE MOUNTING PLATE CAN SUPPORT THE APPLIED LOAD WITH MINIMAL DEFLECTION. THE STIFFER THE PLATE THE HIGHER ACCURACY YOU CAN MAINTAIN.
- 5) FOLLOW THE DIAGRAMS AND CHART BELOW WHEN MOUNTING YOUR PANCAKE SENSOR. DO NOT FULLY TORQUE EACH BOLT TO ITS MAX AT FIRST. TORQUE ALL BOLTS USING THE 40%, 80%, AND 100% RULE. THIS WILL MINIMIZE THE ZERO DISTORTION AND MAINTAIN SENSOR ACCURACY.