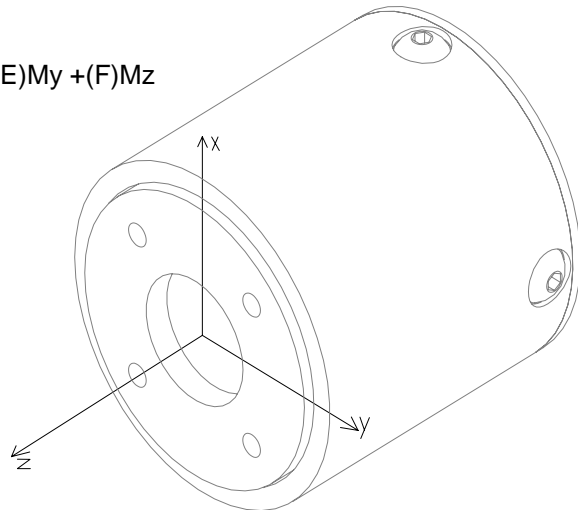


Extraneous Load Factors

Equation: $\sigma_{max} \geq (A)F_x + (B)F_y + (C)F_z + (D)M_x + (E)M_y + (F)M_z$



Material: Aluminum 2024-T4 (*AL)

Model #	Capacity	A	B	C	D	E	F
TFF400	5 in-oz	2959	2959	125	654	654	6112
	10 in-oz	2025	2025	93	529	529	3677
	20 in-oz	1398	1398	79	429	429	2767
	50 in-oz	1158	1158	52	281	281	2294
	100 in-oz	735	735	30	155	155	1360
	160 in-oz	468	468	22	117	117	737
	400 in-oz	267	267	15	73	73	422
TFF400	1,000 in-oz	143	143	12	52	52	197
	100 in-lb	108	108	12	55	55	149
	200 in-lb	87	87	10	48	48	77
	500 in-lb	44	44	5	26	26	27

σ_{max} **Table**

Material	Static Load (=60% Y.S.)	Fatigue (Non Reversing Loads)	Fatigue (Full Reversing Loads)
2024-T4/T351	28,000	18,000	15,000

*Value is 75% of Fatigue Strength based on 10-20 x 10⁶ cycles and allow for factors that influence Fatigue such as surface finish, stress concentrations, corrosion, temperature and other variables for the production of the transducer, for infinite Fatigue Life (100 x 10⁶) use 75% of values shown.

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