

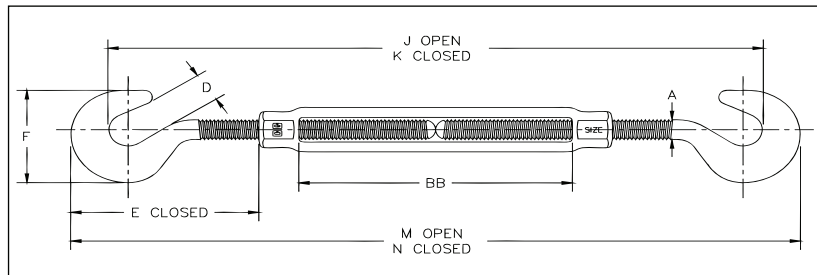
# Hooks & Hook Turnbuckles



**HG -223**  
Hook & Hook

Meets the performance requirements of Federal Specifications FF-T-791b, Type 1 Form 1 - CLASS 5, and ASTM F-1145, except for those provisions required of the contractor. For additional information, see page 476.

- End fittings are Quenched and Tempered or Normalized, bodies heat treated by normalizing.
- Hot Dip galvanized steel.
- Hooks are forged with a greater cross sectional area that results in a stronger hook with better fatigue properties.
- **TURNBUCKLES RECOMMENDED FOR STRAIGHT OR IN-LINE PULL ONLY.**
- Modified UNJ thread on end fittings for improved fatigue properties.
- Body has UNC threads.
- Lock Nuts available for all sizes (see page 198).
- Comprehensive end fitting data provided on page 194.
- Fatigue Rated.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these turnbuckles meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



## HG-223 Hook & Hook

Thread Diameter & Take Up (mm)	HG-223 Stock No.	Working Load Limit (t)*	Weight Each (kg)	Dimensions (mm)								
				A	D	E Closed	F	J Open	K Closed	M Open	N Closed	BB
† 6.35 x 102	1030011	.18	.15	6.35	11.2	42.3	32.3	249	187	310	208	103
† 7.94 x 114	1030039	.32	.24	7.94	12.7	50.7	38.1	294	218	358	243	116
† 9.53 x 152	1030057	.45	.38	9.53	14.2	57.8	44.7	387	270	453	301	155
12.7 x 152	1030075	.68	.85	12.7	16.5	89.7	57.9	457	335	527	375	153
12.7 x 305	1030119	.68	1.26	12.7	16.5	89.2	57.9	769	495	839	535	314
15.9 x 305	1030137	1.02	1.46	15.9	22.9	108	71.4	495	368	572	419	153
15.9 x 305	1030173	1.02	2.08	15.9	22.9	107	71.4	809	529	885	580	315
19.1 x 152	1030191	1.36	1.91	19.1	24.9	129	84.6	538	406	620	467	156
19.1 x 305	1030235	1.36	3.14	19.1	24.9	128	84.6	853	568	935	630	320
19.1 x 457	1030253	1.36	3.92	19.1	24.9	129	84.6	1158	721	1240	782	471
22.2 x 305	1030271	1.81	4.47	22.2	28.7	148	96.0	886	597	972	667	309
25.4 x 305	1030333	2.27	6.70	25.4	31.8	167	108	929	637	1019	714	309

\*Proof Load is 2.5 times the Working Load Limit. Ultimate Load is 5 times the Working Load Limit. † Mechanical Galvanized