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BREA
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HEX HYDRANT BREAK-OFF BOLT T-316

SUBMITTAL SPECIFICATIONS
Abstract of ASTM F593 & F594 (Stainless Steel)
Grade: 18 Chromium, 10 Nickel, 2 Molybdenum (ANSI T-316)

**NOTE: These bolts have been altered to allow for shearing at the joint on impact.

CHEMICAL REQUIREMENTS

Chemical analysis shall be performed in accordance with ASTM A751

CARBON MAX	MANGANESE MAX	PHOPHOROUS MAX	SULFER MAX	SILICON MAX	CHROMIUM	NICKEL	MOLYBNENUM
0.08	2.00	0.045	0.030	1.00	16.0 to 18.0	10.0 to 14.0	2.00 to 3.00

MECHANICAL REQUIREMENTS

*Prior to drilling

HARDNESS ROCKWELL MIN	TENSILE STRENGTH (KSI) (1/4" TO 5/8" DIA) MIN	TENSILE STRENGTH (KSI) (1/4" TO 5/8" DIA) MAX	TENSILE STRENGTH (KSI) (3/4" to 1 ½" DIA) MIN	TENSILE STRENGTH (KSI) (3/4" to 1 ½" DIA) MAX	YIELD STRENGTH (KSI) MIN	ELONGATION (%)
B80 – C 32	100	150	85	140	45	25

☐ Hex Nuts ASTM F594 (ASME B18.2.2) ☐ Heavy hex Nuts ASTM F594 (ASME B18.2.2)

☐ T-316 Stainless Steel Washers

LOCATION

☐ Buried ☐ Submerged ☐ Above Grade ☐ Below Grade ☐ Other

DIMENSIONAL DATA: Unless otherwise specified in the purchase order, parts shall be threaded in accordance with ANSI/ASME B18.2.1, Page C-1, for Hex Cap Screws (Finished Hex Bolts). Additional information can be found in ASTM F593, DTD 1998 (Stainless Steel Bolts, Hex Cap Screws) and in ASTM F594, DTD 1998 (Stainless Steel Nuts)

ADDITIONAL INFORMATION: Break off Bolts have a drilled hole in the shank. Dimensions are 11/32 Hole for 5/8 Bolts; 13/32 for 3/4 Bolts. Hole Depth is 2 3/8”