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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------|----------------------------------------------------|---------------------------------------------|
| 1 | 2 | 3 | 4 | 5 | | |
| Drawing No | | KE-BASE-2211-00037-B18.2.1-A307-B-7/8x8 | | | | |
| Dimension as per | | ASME B18.2.1 (Table -6) | Chemical & Mechanical properties as per | | | |
| Grade | | B | Size | 7/8"x8" | | |
| Title | | Hex Bolt | Dated | 11.05.2018 | | |
| Thread per inch (TPI) | | 9 UNC | Mass/Weight | 0.668 kg/piece | | |
| Proj. | | | | | | |
| Amendment | | | | | | |
| Revision No. | Details | Dated | Remarks | Authorised by | | |
| <h3 style="margin: 0;">Hex Bolt ASME B18.2.1 M-7/8"x8"</h3> <p style="margin-top: 10px;"> Note: a. $\beta = 15^\circ$ to 30° b. Incomplete thread $\mu \leq 2P$. c. Reference datum for d_w. d. Maximum underhead fillet. </p> <p style="text-align: right; margin-right: 50px;">'X' Enlarge View</p> | | | | | | |
| | | Dimension in Inch | | Dimension in mm | | |
| Parameters | | Symbol | Minimum | Maximum | Minimum | |
| Head thickness | | H | 0.531 | 0.563 | 13.49 | |
| Width A/F | | F | 1.285 | 1.312 | 32.64 | |
| Width A/C | | G | 1.465 | 1.516 | 37.21 | |
| Shank diameter | | E | 0.866 | 0.875 | 22.00 | |
| Major diameter | | D | 0.859 | 0.873 | 21.82 | |
| Pitch diameter | | D1 | 0.795 | 0.801 | 20.18 | |
| Minor diameter | | D2 | 0.737 | - | 18.72 | |
| Threading length | | LT | 2.250 | 2.289 | 57.15 | |
| Shank length | | LB | 5.190 | - | 131.83 | |
| Total Shank length | | LG | - | 5.75 | - | |
| Total length of bolt | | L | 7.909 | 8.091 | 200.90 | |
| da | | da | - | 1.005 | 25.53 | |
| dw | | dw | 1.181 | - | 29.99 | |
| Radius of fillet | | r | 0.040 | 0.065 | 1.02 | |
| c | | c | 0.015 | 0.035 | 0.38 | |
| Chamfer | | b | 0.000 | 0.197 | 0.00 | |
| Maximum Total Runout of Bearing Surface FIM (Specified proof load) | | Ψ | 0.023 max. | | | |
| | | Kapil Enterprises 330 EHTP, HSIIDC, Kundli Industrial Estate Sonapat - Haryana-131028, Ph:9811009061 Email:sales@bigboltnut.com, kapil@roll-fast.com | | Drawn By Pankaj Kumar (Ass. QC Manager) | Checked By Santosh Kumar (Plant Head-GM) | Approved By Kapil Aggarwal CEO-MD |
| 1 | 2 | 3 | 4 | 5 | | |