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All Dimension is in mm



Note:

- a. $\beta = 15^\circ$ to 30°
- b. Point shall be chamfered on for threads $< M4$ may be as-rolled (sheared end) in accordance with ISO 4753.
- c. Incomplete thread $\mu < 2P$.
- d. Reference datum for d_w .
- e. Maximum underhead fillet.



Hex Bolt DIN EN 14399-4 M-48x200

'X' Enlarge View

| Parameters | Symbol | Minimum | Maximum |
|-----------------------|--------------|---------|---------------|
| Raw material diameter | D | 48.50 | 49.50 |
| Head thickness | k | 28.95 | 31.05 |
| Width A/F | s | 78.10 | 80.00 |
| Width A/C | e | 88.25 | - |
| Shank diameter | ds | 47.00 | 49.00 |
| Major diameter | D | 44.44 | 44.94 |
| Pitch diameter | D1 | 41.78 | 42.01 |
| Minor diameter | D2 | - | 40.07 |
| Threading length | (b) | 82.00 | 92.00 |
| Shank length | ls | 103.00 | - |
| Total Shank length | lg | - | 118.00 |
| Total length of bolt | l | 197.70 | 202.30 |
| da | da | - | 55.00 |
| dw | dw | 74.20 | - |
| Radius of fillet | r | 3.00 | - |
| c | c | 0.50 | 1.00 |
| Chamfer | b | 0.00 | 10.00 |
| Amendment | | | |
| Details | Revision No. | Dated | Authorised by |
| | | | |

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| Drawing No.- KE-BASE-1133-00080-14399.4-898.1-10.9-48x200 | | |
| Dimension as per | DIN EN 14399-4 | |
| Mechanical properties as per | ISO 898-1 | |
| Grade | 10.9 | |
| Size | 48x200 | |
| Pitch | 5.00 | |
| Title | Hex Bolt | Status- Approved |
| Dated | 20.04.2018 | Proj. |
| Mass/Weight | 3.942 kg/piece | |
| Drawn By Pankaj Kumar (Ass. QC Manager) | Checked By Santosh Kumar (Plant Head-GM) | Approved By Kapil Aggarwal CEO-MD |
| | | |
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