Tightening Torque Reference — ISO 898 (reference)

Engineering Reference · Tightening Torque Reference

Tightening Torque Reference to ISO 898 (reference). Full dimensional table, materials, finishes and quotation. 15 sizes listed.

Tightening Torque Reference are engineering reference manufactured to ISO 898 (reference). This page lists the full dimensional range with the key specifications engineers need to select and specify them.

About This Reference

This is an engineering reference table for tightening torque reference based on ISO 898 (reference). Use it alongside our fastener catalog when selecting and specifying parts.

Reference Data (ISO 898 (reference))

Size	Torque cl.4.6 (Nm)	Torque cl.8.8 (Nm)	Torque cl.10.9 (Nm)	Torque cl.12.9 (Nm)	Description
M4	1.5	2.9	4.1	4.8	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M5	2.9	5.8	8.1	9.5	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M6	5.0	9.9	14.0	16.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M8	12.0	24.0	34.0	40.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M10	24.0	47.0	67.0	78.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M12	42.0	82.0	115.0	135.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M14	66.0	130.0	185.0	215.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M16	100.0	200.0	280.0	330.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M18	140.0	275.0	390.0	455.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M20	195.0	390.0	550.0	640.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M22	265.0	530.0	750.0	870.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M24	340.0	670.0	950.0	1100.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M27	500.0	990.0	1400.0	1650.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M30	680.0	1350.0	1900.0	2250.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)
M36	1170.0	2350.0	3300.0	3900.0	Dry, unlubricated, friction coefficient approx. 0.12 (reference)

Related Fasteners

- Clearance Hole Sizes — ISO 273
- Metric Fine Thread Dimensions — ISO 724
- Tap Drill Sizes — ISO 2306 (reference)
- Bolt Property Classes — ISO 898-1
- Metric Thread Dimensions — ISO 724 / ISO 965

Frequently Asked Questions

What does the Tightening Torque Reference reference table cover?

Tightening Torque Reference is an engineering reference table aligned with ISO 898 (reference). Use the values alongside our fastener catalog when selecting and specifying parts.

How do I request a quotation?

Use the parametric drawing on this page to set the exact configuration (size, material, finish) and click "Request this configuration" — a specialist from engineeringhardware.com will respond within one business day.

More Engineering Reference

← PreviousBolt Property ClassesISO 898-1Next →Metric Fine Thread DimensionsISO 724