

MAXOS Sight Glass Torque Guide

Correct tightening to protect sight windows — installation guide & best practices

Correct MAXOS sight glass torque specs are essential for safe installation and long service life. This guide provides recommended torque procedures, typical torque ranges, common mistakes to avoid and safety notes. Use this document as a quick reference, and always confirm model-specific values from the product datasheet or our technical team.

Why torque matters

Proper torque ensures even gasket compression and correct sealing. Under-tightening can cause leaks while over-tightening can stress the glass and cause chips, cracks or failure. Following the MAXOS sight glass torque specs reduces downtime and improves safety.

Recommended torque procedure (step-by-step)

Step 1. Prepare the flange and gasket: clean seating surfaces and inspect gasket for defects.

Step 2. Hand-thread bolts: start bolts by hand to avoid cross-threading and misalignment.

Step 3. Initial cross pattern: tighten bolts to ~30–40% of final torque in a star/cross pattern.

Step 4. Incremental steps: increase torque in 2–3 equal steps while keeping the cross pattern until reaching the specified MAXOS torque.

Step 5. Final verification: after system reaches operating temperature, re-check torque (thermal cycling can change gasket load).

Typical MAXOS sight glass torque specs

Flange size / category	Suggested torque (guidance)
Small flanges (DN ≤ 50)	10 – 25 Nm
Medium flanges (DN 65 – 100)	25 – 80 Nm
Large flanges (DN ≥ 125)	80 – 200 Nm
Notes	Ranges vary with bolt grade, gasket material and flange type.

Common mistakes and how to avoid them

Using one-bolt tightening: Causes uneven compression — always use a cross/star pattern.

Ignoring bolt lubrication: Dry or corroded threads give inaccurate torque readings; use recommended lubrication.

Skipping re-torque after heat-up: Thermal cycles can relax clamp force — re-check torque after first run-in.

Safety notes

Only trained personnel should install or replace sight glass assemblies. Follow site-specific safety procedures. If a glass disc shows chips, cracks or crazing, replace it immediately rather than attempting to reuse with adjusted torque.

Contact & technical support

For model-specific torque numbers or installation assistance, contact Lumiglas technical support:

Email: lumistar@188.com

© MAXOS. This document provides general guidance. Confirm exact torque specs in product datasheet or with Our technical support.