THREAD MISMATCH PREVENTION CHECKLIST

VISUAL AND PHYSICAL INSPECTION

- Check for markings or stamps on the fitting (e.g., 'M22x1.5', '1/4" NPT')
- Compare thread profile - BSPP, SAE or Metric Parallel are a straight parallel thread / BSPT and NPT are tapered
- Take note of what kind of seal the fitting has, what type of seal is it or if there is no seal at all
- Use a thread gauge to verify pitch and diameter

TOOLS AND ID AIDS

- Use a thread pitch gauge or caliper to verify the thread
- Reference a thread ID chart or app if unsure
- Keep samples of each type for comparison (label them!)

RED FLAGS TO STOP AND RE-CHECK

- Threads bind or feel 'off' when hand-tightening
- Threads can feel loose when the pitch is not correct
- Thread engagement feels shallow or too tight too soon
- Parts look 'close enough' but aren't marked clearly
- You're mixing components from different suppliers or countries

SEALING AND ASSEMBLY

- Use correct sealing method for the thread type (O-ring, PTFE tape, or thread sealant)
- Never force a connection - threads should engage smoothly
- If you're unsure - ask a supervisor or tech lead before proceeding

PRO TIP

Finding the right thread is critical. Generally threads are not interchangeable, even if they appear similar. A mismatch can cause leaks, pressure loss, or catastrophic failure.

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