

Quarter turn latches comprise at least three parts:

- Housing, with or without an integral seal, if the preferred housing is not available with the Foam-in-Place gasket a flat seal (P/N 1000-23) is needed. If door thickness > 8mm or H > 50mm an extended housing will be needed.
- 2. Insert, this is governed by the type of tool that will be needed
- 3. Cam, the offset of which is selected by "H" dimension required (the perpendicular distance between the outside face of the door and the latching point) with reference to the housing length (GH).
- 4. If the latch is the be water tight to NEMA 4, IP 65 or GR 487 then an O-ring is needed, if even better protection, up to IP 69K, a second O-ring is needed, and in some cases special assembly is required.



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- 1. Select type
  - Standard size widest grip range, most options, best value, see catalog page 1B-140
  - Small (1022) fewer cams and other options good for very small enclosures. (1A-120)
- 2. Select Material if in doubt see "Materials pdf"
  - Zinc Alloy, low cost with good strength, both chrome plated and powder coated are fine for most outdoor applications
  - Stainless, for better corrosion resistance or strength (316 for marine use)
  - Glass reinforced polyamide (nylon) for low cost and corrosion resistance. New inserts use 50% glass for added strength and hardness.
    - Latches using the above materials are shown on 1B-140
  - If lowest cost is paramount look at PA 6 quarter turns on page 1B-160.
    Use short cams (on that page) to reduce stress



- 3. What tool this specifies the insert required
  - See page 1B-140 for options
- 4. Cam Calculate the required "H" dimension and note the "GH" number
  - Go to page 1C-120, this is divided into three vertical sections for the three types of cam pictured. The cams in the left section allow an assembled latch to be inserted into the cut out, so these are used most often.
  - Look down the left column to the required "H" look across to the relevant "GH" column (usually 18mm), this is the P/N you need.



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- 5. Sealing
  - Select housing with the suffix "-G" or add a seal P/N 1000-23.
  - Add an O-ring 1000-24 for NEMA 4, IP65, GR 487
  - This is unnecessary with stainless latches since they are all sealed.
- 6. Other types
  - 1012 type: good for high volume, few options, non-standard cut out, non-standard cams, inexpensive, see page 1A-420 http://www.emka.com/no\_cache/us\_en/products/details/catalog/quarter-turns-4/small-and-medium-3/quarter-turn-with-built-inoptions-medium-version.html?tx\_ritemkacatalog\_pi1[showSpecial]=PDFPreview
  - 1500 type: All polymer, quick installation, consider for high volume, see 1D-120 <u>http://www.emka.com/no\_cache/us\_en/products/details/catalog/quarter-turns-4/three-piece-3/quarter-turn-three-piece-clip-fix.html?tx\_ritemkacatalog\_pi1[showSpecial]=PDFPreview</u>



- 7. Ordering
  - Example for a chrome plated zinc latch with a screwdriver slot and a cam to give an "H" of 24 mm used on a NEMA 4 enclosure, the P/Ns would be:
  - 1000-U45-G (housing with gasket)
  - 1000-U142 insert
  - 1000-24 (O-ring)
  - 1000-14(Cam)

To have EMKA assemble the latch add line item 1000-991

This can be abbreviated to 1000-U45-G/U142/14/24/991