

Choose the thread family first.

A nominal diameter is not a complete tool specification. Identify the required thread, then match the tool connection and machining conditions. Select a linked family below for the current FuRui product notes.

Tool family	Start with this requirement	Do not assume
Machine / hand taps	Full thread callout, hole type, material and usable thread depth.	A metric diameter alone defines pitch or the machine cycle.
55-degree pipe taps	G, Rp or Rc designation as required by the component drawing, plus size and pitch.	All 55-degree pipe threads have the same taper or sealing arrangement.
Trapezoidal taps	Tr size, pitch, thread hand, fit and thread depth. For multi-start threads, state lead and starts.	A Tr tool and an ACME tool are interchangeable.
Buttress taps	Dimensioned thread profile with both flank angles, pitch, hand and required fit.	The word buttress establishes one universal thread profile.
STI taps	Wire-insert system, final fastener thread, insert length and receiving-thread requirements.	An ordinary tap of the final bolt size produces the required insert-receiving thread.
Tyre-valve taps	Full valve-thread code, diameter and pitch. See the 19 catalog entries on page 2.	Two entries with the same nominal diameter use the same pitch.
Combination taps	Complete combined geometry, thread standard, working depths and machine connection.	The family name means one-pass drilling and tapping.
Round threading dies	External-thread callout plus die-body diameter, thickness and holder fit.	Thread size also specifies the die holder size.

Keep the thread and the mounting dimensions separate.

For a tap, include shank diameter and drive-square dimensions; for a die, include its body and retention dimensions. Add material grade, hole/blank drawing, quantity and destination. Confirm the quoted configuration and inspection criteria before ordering.

Scope: selection guidance, not cutting-speed data, a certified drawing, stock availability or a promise of compatibility. Terminology references are provided on the linked product pages.

Tyre-valve thread tap codes

19 entries from the company-supplied product sample. Nominal diameter d and pitch P are in millimeters. These are thread-reference values, not pre-drill diameters or complete tap dimensions.

Catalog thread code	Nominal diameter d (mm)	Pitch P (mm)
5V1	5.2	0.705
5V2	5.2	1.058
6V1	6.0	0.800
8V1	7.7	0.794
8V2	7.9	1.058
9V1	9.4	0.794
10V1	9.6	1.000
10V2	10.3	0.907
11V1	11.1	1.270
12V1	12.2	0.907
13V1	12.6	1.270
13V2	12.7	0.794
15V1	15.0	1.000
16V1	15.8	0.941
17V1	17.0	1.000
17V2	17.5	1.058
17V3	17.5	1.588
19V1	19.0	1.588
20V1	20.5	1.000

Same diameter, different thread.

5V1 and 5V2: both list d = 5.2 mm, but P is 0.705 and 1.058 mm respectively. **17V2 and 17V3:** both list d = 17.5 mm, but P is 1.058 and 1.588 mm. Use the full code when discussing a replacement.

Before quoting: provide the mating-component thread drawing, tolerance, hole type, required depth and material. Tap length, shank, square and cutting geometry require a matched drawing; they are not specified by this table.

[View the live valve-tooling table and request a model-specific quote](#)

Source: company-supplied product sample, PDF page 17 (printed page 14). Rechecked 26 September 2026. Trailing zeroes are normalized for readability without changing numeric values. Final supplied dimensions and acceptance criteria are agreed in the quotation.