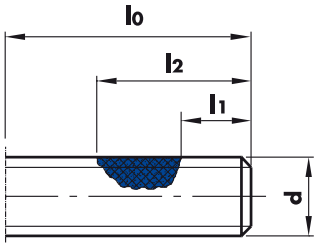
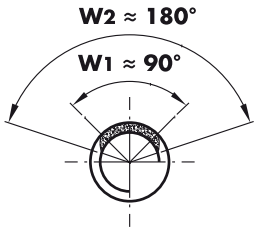
PFB

Fixing threads with locking action.
Polyamide-based coating (blue).





l0 ≈ length of thread

l1 ≈ from 2 to 3 times the pitch (p) of the thread

l2 ≈ 1.5 times the diameter (d) of the thread

w1 = coating core zone

w2 = coating including edge zone

d	l1	l2 ≈	Max screwing torque (Nm)	Min unscrewing torque (Nm)
M3	1 ÷ 1.5	4.5	0.43	0.1
M4	1.5 ÷ 2	6	0.9	0.15
M5	1.5 ÷ 2.5	7.5	1.0	0.2
M6	2 ÷ 3	9	2.0	0.5
M8	2.5 ÷ 4	12	4.0	1.0
M10	3 ÷ 4.5	15	5.0	1.5
M12	3.5 ÷ 5	18	7.0	2.3
M16	4 ÷ 6	24	10.0	4

The torque values are based on clamping tests without preloading, with a 6H nut and at ambient temperature.
For a thread of l0 <l2, the length l2 is reduced to the point that one or two of the last thread turns are left uncovered (l1).

Application of the PFB polyamide-based coating is a process in which the elastic plastic (polyamide) is applied to a part of the thread, to create a locking action while a screw is being tightened.
The play between the screw and the nut screw is filled with polyamide, thus ensuring a high degree of contact between the remaining uncoated threaded surfaces. The coating contrasts accidental unlocking and accidental unscrewing. The parts locked together may always be separated by applying a minimum unlocking torque.
There is no need to wait for it to be activated as the locking action between the threads is instantaneous.
Elements threaded with PFB polyamide-based coating may be stored for a virtually unlimited period.

Features.

High thread locking action.
Excellent for adjusting bolts.
This security aspects may be essential for certain applications of standard parts.
Stock holding of liquid glue is eliminated.
Multi use is possible whereby the jamming effect after the 5th removal is still around 50% of its original strength.
The working temperature range is from -50°C to +90°C.

To order an article with the polyamide-based coating, add the abbreviation PFB to the product description.
Example:
Spring plunger
GN 615.3-M8-K-**PFB**