





**FIN-LOK** is a press-in insert which can be easily installed into most thermoplastic materials. It features a combination of sharp fins and straight knurls. Unlike the Press-Lok range, this insert has a free running thread. Headed and stud versions are also available.

## ADVANTAGES

-  EASY PRESS-IN INSERTION
-  FREE RUNNING THREAD
-  HIGH PULL-OUT PERFORMANCE IN MOST THERMOPLASTICS
-  SELF-ALIGNING - ASSISTS INSTALLATION



## DESIGN GUIDE

### HOLE PREPARATION

Moulded holes are recommended wherever possible. The taper on a moulded hole should be 1° inclusive and the hole diameter recommended should apply at the point reached by the bottom of the insert. The top of the hole should not be chamfered or counterbored and care must be taken to avoid bell mousing. Hole diameter tolerance -0.00 +0.10mm.

### INSTALLATION

The inserts must be installed using a steady squeeze action press. A hammer blow type installation will prevent plastic flow and may damage the boss.

### WALL THICKNESS

A general guide to minimum wall thickness is given in the data table but this will vary depending upon the nature of the plastic. Where thinner walls are required these can often be accommodated, but consultation with the P.S.M Technology Centre or your local Sales Office and pre-production testing is strongly advised.

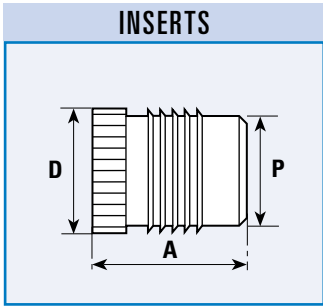
### PERFORMANCE DATA

The complexity of materials and variations in service conditions make it impossible to detail fastener performance for specific applications. The charts on page 28 give a general guide.

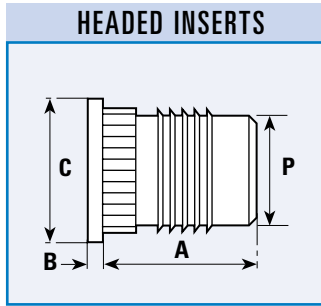
# TECHNICAL DATA

# FIN-LOK

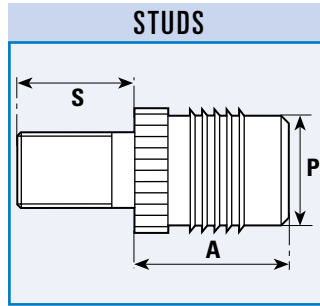
FIN-LOK™ INSERTS & STUDS



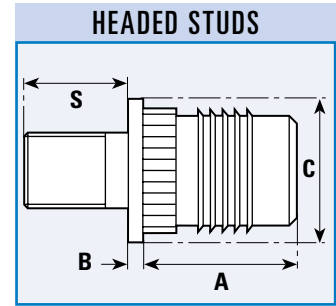
Product Code FL



Product Code FLH



Product Code FLTS



Product Code FLHS

**STANDARD MATERIAL** - Brass (B) - Other materials possible on quotation

## DIMENSIONS

INTERNAL THREAD SIZES		A	B	C	D	P	No. of Fins	Rec. Hole Size -0.00 +0.10 mm	Min. Wall Thickness mm
Unified	ISO Metric	mm	mm	mm	mm	mm			
2	2	4.0	0.45	4.8	3.7	3.1	2	3.2	1.6
-	2.5	4.8	0.58	5.5	4.5	3.9	3	4.0	2.0
4	3	4.8	0.58	5.5	4.5	3.9	3	4.0	2.0
6	3.5	6.4	0.74	6.4	5.3	4.7	4	4.8	2.4
8	4	7.9	0.89	7.1	6.1	5.5	5	5.6	2.8
10	5	9.5	1.07	7.9	7.0	6.3	5	6.4	3.2
1/4	6	12.7	1.32	9.5	8.6	7.9	7	8.0	4.0
5/16	8	12.7	1.32	11.0	10.2	9.5	7	9.6	4.8

A = Standard lengths  
Other lengths possible on quotation.

## Standard Stud Lengths (Dimensions 'S')

MILLIMETRES	5	6	8	10	12	14	16	18	20	25
INCHES	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1

## HOW TO SPECIFY

INSERTS	
PRODUCT CODE	FL-B-M3
MATERIAL	FL-B-M3
THREAD SIZE	FL-B-M3

HEADED INSERTS	
PRODUCT CODE	FLH-B-M3
MATERIAL	FLH-B-M3
THREAD SIZE	FLH-B-M3

STUDS	
PRODUCT CODE	FLTS-B-M4-10mm
MATERIAL	FLTS-B-M4-10mm
THREAD SIZE	FLTS-B-M4-10mm
LENGTH (if applicable)	FLTS-B-M4-10mm

HEADED STUDS	
PRODUCT CODE	FLHS-B-M5-12mm
MATERIAL	FLHS-B-M5-12mm
THREAD SIZE	FLHS-B-M5-12mm
LENGTH (if applicable)	FLHS-B-M5-12mm

