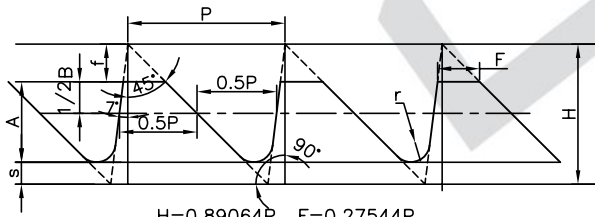


# BUTTRESS THREAD

**Application: Construction of artillery with the screw-type breechblock / gun barrels. vises/ screw jacks.**

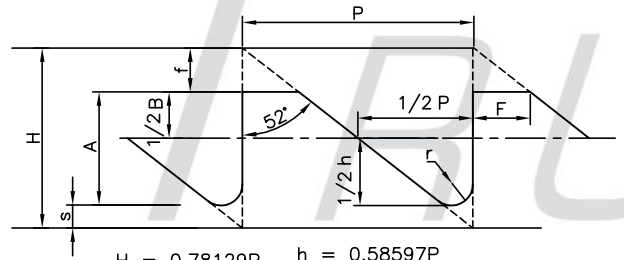
butress threads can withstand the axial load placed on it/high force in only one direction hence suitable for above application.

**BUTTRESS 7/45° THREAD PROFILE**



$$\begin{aligned}
 H &= 0.89064P & F &= 0.27544P \\
 r &= 0.12055 & B &= 0.4P \\
 A &= 0.50586P & S &= 0.13946P \\
 h &= 0.61172P
 \end{aligned}$$

**BUTTRESS 0/52° THREAD PROFILE**



$$\begin{aligned}
 H &= 0.78129P & h &= 0.58597P \\
 f &= 0.19064P & s &= 0.09766P \\
 B &= 0.4P & r &= 0.09298P \\
 A &= 0.49298P & F &= 0.24401P
 \end{aligned}$$

**SPECIFICATION:**

B.S. 1657 – 1950 used for 7°/45° and 0°/52° thread profiles. ANSI B 1.9-1973 for 7°/45° thread profile.

**MANUFACTURING RANGE**

Butress with Hydraulic sealing thread form used in Oil fields is not considered here.

Gauge Type	Diameter Range (Inch)	TPI (Threads per Inch)	Tolerance Class as per BS 1657	Tolerance Class as per ANSI B1.9
Thread Plug Gauges.	0.5 - 14	20, 16, 12, 10, 8, 6, 5,	Free Medium Close	Class 2 (standard grade) Class 3 (precision grade)
Thread Ring Gauges.	0.5 - 11	4, 3, 2.5, 2		
Check Plug Gauges.	0.5 - 11	☛ TPI not covered		
Wear Check Plug Gauges.	0.5 - 11	here can be supplied if requested by customer		