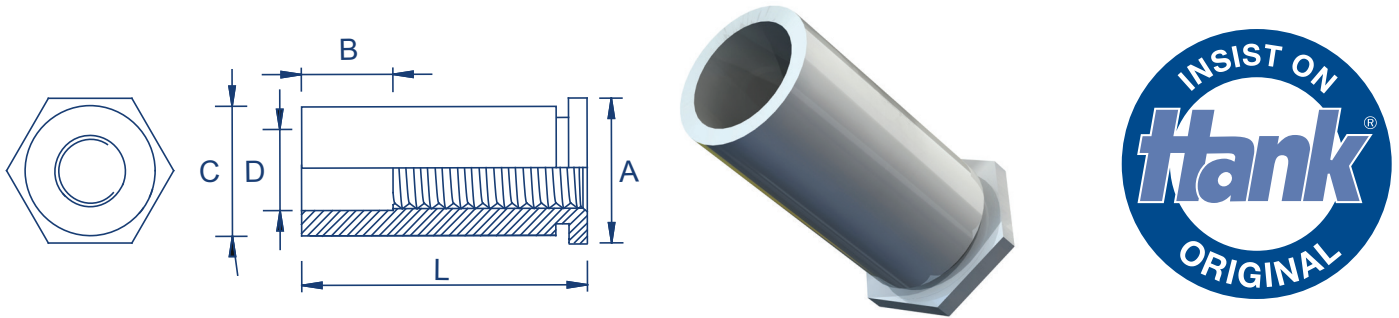


# Through Standoffs

TR-SO/TR-SOS/TR-SO4/TR-SOA

Zinc Plated Steel : TR-SO | Stainless Steel : TR-SOS | 400 Series Stainless Steel : TR-SO4 | Aluminium : TR-SOA



## Metric Dimensions

Thread	M2, M2.5, M3	M3alt	M4	M5
C +0.0 -0.13	4.2	5.39	7.12	7.12
D counterbore dia ± 0.13	3.2	3.2	4.8	5.35
A nom	4.8	6.4	7.9	7.9
Min rec sheet thickness	1.0	1.0	1.27	1.27
Hole size +0.08 -0.00	4.22	5.41	7.14	7.14
Min distance to edge of sheet	6	6.8	8	8

Length (mm) tolerance +0.05/-0.13	3	4	5	6	7	8	10	12	14	16	18	20	22	25
'B' Dim (mm)	N/A						4	8		11				

## Metric Performance Data: TR-SO / TR-SOS

Thread		M2.5, M3	M3alt	M3.5, M4	M5
Test sheet thickness	Steel	1.5mm	1.5mm	1.5mm	1.5mm
Installation	Metric (kN)	9.9	14.8	17.9	17.9
Torsional resistance	Metric (Nm)	2.16	2.16	8.5	8.5
Pushout	Metric (N)	1050	1870	2500	2500
Pull-through	Metric (N) (Steel)	1470	1470	3180	3180
	(N) (st/st)	1180	1180	2490	2490

For use in sheet hardness: TR-SO - HRB80, TR-SOS - HRB70, TR-SO4 - HRB88, TR-SOA - HRB50

These tests have been conducted in laboratory conditions, these figures should therefore be used for guidance only.

All data is correct to the best of our knowledge, however TR cannot be held responsible for any errors or omissions.