



DLS - Large Flange, Open End, Splined Body

Key Features

- For use in imperial hole sizes
- High push through resistance and hole reinforcement
- High torque-to-turn in soft materials
- Ease of hole entry
- Unlubricated as standard but can be supplied lubricated for spin-spin tools



Material	Finish
Low Carbon Steel to BS 970 040A404 SAE 1008 DIN 1654 Qst 34-3	Zinc plated and yellow passivated to BS EN 12329, ASTM 633-85, Type 11, Fe/Zn8

* Note: Aluminium option also available - see note below



Dimensions in millimetres

Thread Size	Grip Range		Hole Size + -0.1 - 0	Part Number Zinc plated, Yellow passivated	A	B	D	J	M	P
	min.	max.			max.	nom.	max.	max.	max.	max.
M4 x 0.7	0.50	2.00	6.80	DLS-470-2.0	6.75	9.50	0.81	9.91	11.70	7.00
	2.00	3.30	6.80	DLS-470-3.3	6.75	9.50	0.81	9.91	13.00	7.00
M5 x 0.8	0.50	3.30	7.60	DLS-580-3.3	7.55	10.10	0.94	11.43	13.10	7.60
	3.30	5.70	7.60	DLS-580-5.7	7.55	10.10	0.94	11.43	15.90	7.60
M6 x 1.0	0.70	4.20	10.00	DLS-610-4.2	9.90	12.70	0.94	13.97	15.75	9.00
	4.20	6.60	10.00	DLS-610-6.6	9.90	12.70	0.94	13.97	18.30	9.00
M8 x 1.25	0.70	3.80	13.50	DLS-8125-3.8	13.45	17.00	1.02	18.80	18.65	11.00
	3.80	7.90	13.50	DLS-8125-7.9	13.45	17.00	1.02	18.80	21.60	11.00
M10 x 1.5	0.70	3.80	13.50	DLS-1015-3.8	13.45	17.00	1.02	18.80	18.65	11.00
	3.80	7.90	13.50	DLS-1015-7.9	13.45	17.00	1.02	18.80	21.60	11.00

Options: These parts are also available in aluminium. Use the part numbers above, but replace DLS with DLA. Imperial threads are also available. Please contact your local TFS representative for further details.

Performance Data

Thread Size	Pull-Out kN	Push-Out kN***	Torque-To-Turn Nm*	Maximum Torque to be applied to bolt Nm**
M4	2.3	0.8	1.1	6.2
M5	2.8	1.5	1.4	10.7
M6	3.0	1.4	1.4	18.1
M8	5.0	2.3	2.7	32.0
M10	5.0	2.3	2.7	45.0

* **Torque-To-Turn** These figures represent the minimum torque applied to cause the fastener to turn in the parent material.

** **Maximum Torque** These figures represent the maximum recommended torque to be applied to the bolt, which will not cause thread distortion or failure in the insert.

*** **Push-Out** In threaded foot applications, the usage of a locking nut against the flange of the installed insert is recommended.

Installation Tools

Tool Model	742	Autosert®
Threaded Sizes	M4-M10	M4-M10

Dimensions in millimetres