TEXTRON Fastening Systems
Commercial Solutions

Large Flange Thin Sheet Nutsert® 9698 series

Steel, open end.
For use in soft metric hole sizes.

Key Features

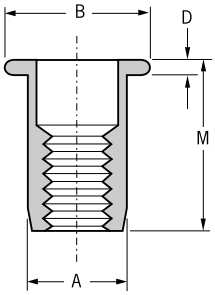
- High push through resistance and hole reinforcement
- M4 - M6 sizes lubricated
- M8 - M10 sizes unlubricated as standard
- Potential to increase flange thickness for use as a spacer

Material

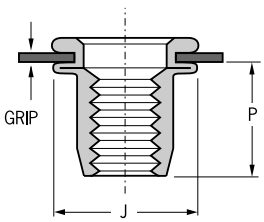
Low carbon steel to BS 970 040A04 SAE 1008 DIN 1654 Qst 34-3

Finish Options

Zinc plated to BS 3382 and yellow passivated to BS 6338	**Standard**
Zinc-nickel plated and clear passivated to VW specification TL244	Available on request
Zinc-nickel plated and gold passivated to VW specification TL244	Available on request
Zinc-nickel plated and black passivated to VW specification TL244	Available on request



BEFORE PLACING



AFTER PLACING

A = Body Diameter
B = Flange Diameter
D = Flange Thickness
J = Blind Side Bulb Diameter
M = Overall Length (Unplaced)
P = Blind Side Protrusion

DIMENSIONS in millimetres

Thread Size	Grip Range		Hole Size	A	B		D	J	M	P	**Part Number**
	min.	max.	+ 0.1 - 0	max.	min.	max.	±0.13	max.	nom.	max.	Zinc plated, Gold passivated
M4 x 0.7	0.50	2.50	6.1	6.05	8.90	9.30	0.80	10.50	11.70	7.10	**09698-00415**
M5 x 0.8	0.50	2.50	7.1	7.05	9.70	10.30	1.00	13.30	12.10	7.30	**09698-00516**
M6 x 1.0	0.50	3.00	9.1	9.05	12.90	13.30	1.50	15.00	15.90	9.40	**09698-00620**
M8 x 1.25	1.00	4.00	11.1	11.05	13.70	14.30	1.50	16.00	18.00	10.50	**09698-00823**
M10 x 1.5	1.00	3.50	13.1	13.05	15.70	16.30	1.50	18.00	20.00	14.00	**09698-01025**
M10 x 1.5	3.00	5.00	13.1	13.05	15.70	16.30	1.50	18.00	21.50	14.00	**09698-01028**

Other sizes, threads, grips and finish options are available on request.

Textron Fastening Systems Limited
Mundells, Welwyn Garden City, Hertfordshire AL7 1EZ United Kingdom
Telephone +44 (0) 1707 668668 Facsimile +44 (0) 1707 338828

Avdel®

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PERFORMANCE DATA

Thread Size	Pull-Out	Push-Out	Torque-To-Turn	Maximum Torque to be applied to bolt
	kN	kN***	Nm*	Nm**
M4 x 0.7	5.5	2.9	1.5	5.1
M5 x 0.8	8.0	4.2	3.0	7.9
M6 x 1.0	10.8	6.5	3.4	12.4
M8 x 1.25	12.5	7.9	5.6	32.0
M10 x 1.5	17.3	10.7	13.8	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

This table shows the relevant installation tools and the thread sizes which they can place within the 9698 series.

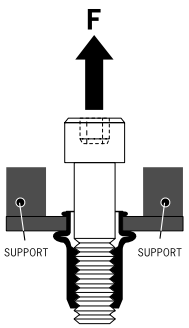
Tool	742	7566 Autosert®	7556
	M4	M4	M4
	M5	M5	M5
	M6	M6	M6
	M8	M8	-
	M10	-	-

TEST METHOD

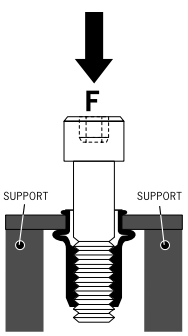
All test and performance data detailed on this sheet are average strength values, determined on representative samples and over multiple tests. Textron Fastening Systems recommends that you use this data as a guide only, since other factors may affect the performance of the Avdel® insert. We strongly recommend you test the insert in your application to determine exact performance levels.

Avdel® threaded inserts are tested in four ways, as illustrated below.

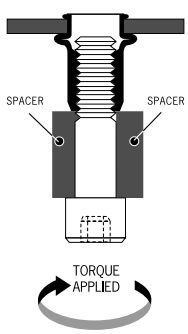
PULL-OUT - the minimum force required to cause the insert to pull through and out of the parent material.
PUSH-OUT - the minimum force required to cause the insert to push through and out of the parent material.
TORQUE-TO-TURN - this data represents the minimum torque required to cause the fastener to turn in the parent material.
MAXIMUM TORQUE - this data represents the maximum recommended torque to be applied to the bolt, which will not cause thread distortion or failure in the insert.



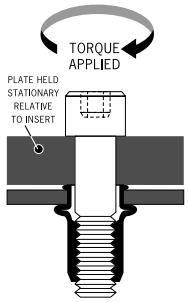
PULL-OUT



PUSH-OUT



TORQUE-TO-TURN



MAXIMUM TORQUE*

* The hole clearance in the top sheet should not exceed the diameter of the bolt to be inserted by more than 0.5mm.

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