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SECTION J PLASTIC HARDWARE

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PLASTIC HARDWARE



Plastic Hardware

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H.B. ETLIN CO. LTD.

Plastic Hardware

NYLON MACHINE SCREWS PREFIX/SUFFIX KEY

J2

NYLON MACHINE SCREWS PREFIX KEY

DESCRIPTION	PREFIX CODE
NYLON MACHINE SCREWS	NMS
NYLON MACHINE SCREWS - FLAT & OVAL	NMS
METRIC NYLON MACHINE SCREWS	NMSM
METAL CORE NYLON MACHINE SCREWS	NSMC
NYLON HEX BOLTS (CAP SCREWS)	NHB
NYLON THUMB SCREWS - KNURLED	NKTS
NYLON THUMB SCREWS	NTS
THREADED ROD	NTR
UNSLOTTED NYLON THUMB SCREW	NUTS

NYLON MACHINE SCREWS SUFFIX KEY

HEAD STYLE	SIZE & LENGTH RANGE	SUFFIX CODE
BINDING SLOTTED	$\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1	BS
FILLISTER SLOTTED	$\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1	FS
HEX SLOTTED	$\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1	HS
HEX UNSLOTTED	$\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1	HU
PAN SLOTTED	$\frac{1}{64} - \frac{1}{4}$ TO $\frac{5}{16}$ -18 - $\frac{7}{8}$	PS
ROUND SLOTTED	$\frac{1}{64} - \frac{1}{4}$ TO $\frac{1}{4}$ -28 - 1	RS
SET SLOTTED	$\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1	SS
SOCKET SET	$\frac{4}{36} - \frac{1}{2}$ TO $\frac{3}{4}$ -10 - $\frac{1}{4}$	SO
PHILLIPS PAN	$\frac{2}{56} - \frac{3}{32}$ TO $\frac{10}{32}$ - 2	PP
PHILLIPS BINDER	$\frac{4}{36} - \frac{1}{2}$ TO $\frac{1}{4}$ -28 - 1	PB

METRIC NYLON MACHINE SCREWS SUFFIX KEY

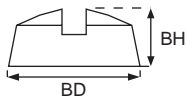
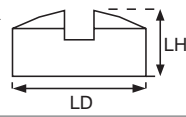
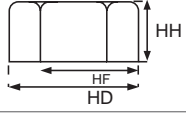
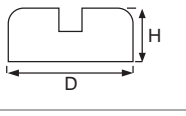
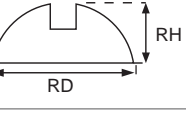
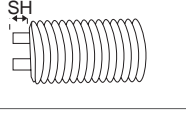
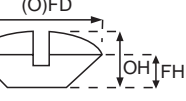
HEAD STYLE	SIZE & LENGTH RANGE	SUFFIX CODE
CHEESE SLOTTED	M2X.4 X 4MM TO M10X1.50 X 60 MM	CS
HEX SLOTTED	M2X.4 X 4MM TO M10X1.50 X 60 MM	HS
HEX UNSLOTTED	M2X.4 X 4MM TO M10X1.50 X 60 MM	HU
FILLISTER PHILLIPS	M2X.4 X 4MM TO M10X1.50 X 60 MM	FP
FILLISTER SLOTTED	M2X.4 X 4MM TO M10X1.50 X 60 MM	FS
FLAT PHILLIPS	M2X.4 X 4MM TO M10X1.50 X 60 MM	LP
FLAT SLOTTED	M2X.4 X 4MM TO M10X1.50 X 60 MM	LS
OVAL SLOTTED	M2X.4 X 4MM TO M10X1.50 X 60 MM	OS
PHILLIPS PAN	M2X.4 X 4MM TO M10X1.50 X 60 MM	PP
PAN SLOTTED	M2X.4 X 4MM TO M10X1.50 X 60 MM	PS
OVAL PHILLIPS	M2.5X.45 X 4MM TO M10X1.50 X 35 MM	OP
THUMB SCREW	M3X.5 X 4 MM TO M6X1.00 X 75 MM	TS

TECHNICAL DATA

J3

TECHNICAL DATA FOR NYLON MACHINE SCREWS

NOMINAL DIMENSIONS (INCHES). DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

HEAD TYPE		THREAD SIZE										
		#0	#2	#3	#4	#5	#6	#8	#10	1/4	5/16	3/8
BINDING 	BH	.028	.050	.056	.065	.073	.080	.110	.120	.155	--	--
	BD	.123	.175	.203	.235	.256	.290	.350	.380	.500	--	--
FILLISTER 	LH	.051	.075	.087	.100	.100	.125	.150	.175	.230	--	.335
	LD	.090	.140	.153	.180	.196	.215	.255	.300	.400	--	.606
HEX & SLOTTED HEX 	HH	--	.040	.050	.055	.064	.085	.110	.110	.175	.219	--
	HF	--	.125	.180	.180	.180	.250	.250	.310	.370	.495	--
	HD	--	.140	.205	.205	.283	.270	.340	.425	.545	.545	--
PAN 	PH	.035	.050	.056	.065	.070	.075	.080	.110	.160	.170	--
	PD	.110	.160	.186	.210	.238	.265	.320	.365	.475	.604	--
ROUND 	RH	.050	.070	.075	.090	--	.100	.110	.130	.160	--	--
	RD	.106	.150	.175	.210	--	.260	.290	.325	.475	--	--
SET 	SH	--	.035	--	.045	--	.055	.055	.060	.080	--	--
FLAT (OVAL) 	OH	--	.070	--	.090	--	.110	.140	.160	.220	.270	.325
	FH	--	.055	--	.070	--	.085	.100	.120	.115	.191	.230
	(O)FD	--	.170	--	.225	--	.280	.332	.385	.507	.602	.723

STEEL CORE ROUND, FILLISTER AND FLAT HEADS, SAME AS ABOVE

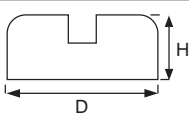
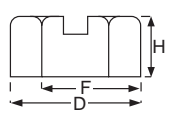
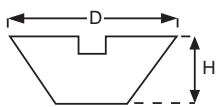
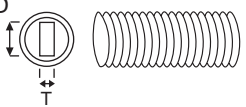
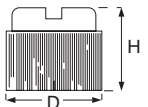
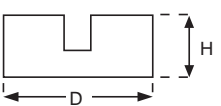
Plastic Hardware

Plastic Hardware

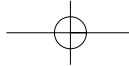
TECHNICAL DATA

J4 TECHNICAL DATA FOR NYLON MACHINE SCREWS

NOMINAL DIMENSIONS (MM). DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

HEAD TYPE APPROXIMATE AMERICAN STANDARD EQUIVALENT		SCREW SIZE									
		M2	2.5	3	3.5	4	5	6	8	10	
		#2	#3	#4	#6	#8	#10	1/4	5/16	3/8	
PAN DIN 85 	D	4.0	5.0	6.0	7.0	8.0	10.0	12.0	16.0	20.0	
	H	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.8	6.0	
SLOTTED HEX 	F	3.2	4.0	5.5	6.0	7.0	8.0	10.0	13.0	17.0	
	D	3.38	4.28	5.4	6.93	7.59	8.71	10.95	14.26	17.62	
	H	1.15	1.3	2.0	2.15	2.8	3.5	4.0	5.0	7.0	
FLAT DIN 963 	D	4.0	5.0	6.0	7.0	8.0	10.0	12.0	16.0	20.0	
	H	1.2	1.25	1.5	1.75	2.0	2.5	3.0	4.0	5.0	
SLOTTED GRUB SD 	SD	--	--	--	--	2.0	3.3	4.1	5.2	6.6	
	T	--	--	--	--	0.76	1.3	1.5	2.4	2.8	
SLOTTED THUMB 	D	--	--	5.5	6.4	7.1	8.1	8.3	--	--	
	H	--	--	8.1	8.8	9.7	10.5	12.5	--	--	
CHEESE 	D	3.8	4.5	5.5	6.0	7.0	8.5	10.0	13.0	16.0	
	H	1.3	1.6	2.0	2.4	2.6	3.3	3.9	5.0	6.0	

Plastic Hardware



NYLON MACHINE SCREWS

J5

NYLON MACHINE SCREWS

PART NUMBER	SIZE (in / mm)	LENGTH (in / mm)
NMS164X.250	1/64 (.397)	1/4 (6.35)
NMS172X.250	1/72 (.353)	1/4 (6.35)
NMS172X.500	1/72 (.353)	1/2 (12.7)
NMS256X.094	2/56 (.907)	3/32 (2.38)
NMS256X.125	2/56 (.907)	1/8 (3.18)
NMS256X.187	2/56 (.907)	3/16 (4.76)
NMS256X.250	2/56 (.907)	1/4 (6.35)
NMS256X.312	2/56 (.907)	5/16 (7.94)
NMS256X.375	2/56 (.907)	3/8 (9.53)
NMS256X.437	2/56 (.907)	7/16 (11.11)
NMS256X.500	2/56 (.907)	1/2 (12.7)
NMS256X.625	2/56 (.907)	5/8 (15.88)
NMS256X.750	2/56 (.907)	3/4 (19.05)
NMS436X.500	4/36 (2.82)	1/2 (12.7)
NMS440X.125	4/40 (2.54)	1/8 (3.18)
NMS440X.187	4/40 (2.54)	3/16 (4.76)
NMS440X.250	4/40 (2.54)	1/4 (6.35)
NMS440X.312	4/40 (2.54)	5/16 (7.94)
NMS440X.375	4/40 (2.54)	3/8 (9.53)
NMS440X.437	4/40 (2.54)	7/16 (11.11)
NMS440X.500	4/40 (2.54)	1/2 (12.7)
NMS440X.625	4/40 (2.54)	5/8 (15.88)
NMS440X.750	4/40 (2.54)	3/4 (19.05)
NMS440X.875	4/40 (2.54)	7/8 (22.23)
NMS440X1.000	4/40 (2.54)	1 (25.4)
NMS440X1.250	4/40 (2.54)	1-1/4 (31.75)
NMS632X.125	6/32 (4.76)	1/8 (3.18)
NMS632X.187	6/32 (4.76)	3/16 (4.76)
NMS632X.250	6/32 (4.76)	1/4 (6.35)
NMS632X.312	6/32 (4.76)	5/16 (7.94)
NMS632X.375	6/32 (4.76)	3/8 (9.53)
NMS632X.437	6/32 (4.76)	7/16 (11.11)
NMS632X.500	6/32 (4.76)	1/2 (12.7)
NMS632X.625	6/32 (4.76)	5/8 (15.88)
NMS632X.750	6/32 (4.76)	3/4 (19.05)

PART NUMBER	SIZE (in / mm)	LENGTH (in / mm)
NMS632X1.000	6/32 (4.76)	1 (25.4)
NMS632X1.250	6/32 (4.76)	1-1/4 (31.75)
NMS632X1.500	6/32 (4.76)	1-1/2 (38.1)
NMS832X.187	8/32 (6.35)	3/16 (4.76)
NMS832X.250	8/32 (6.35)	1/4 (6.35)
NMS832X.312	8/32 (6.35)	5/16 (7.94)
NMS832X.375	8/32 (6.35)	3/8 (9.53)
NMS832X.437	8/32 (6.35)	7/16 (11.11)
NMS832X.500	8/32 (6.35)	1/2 (12.7)
NMS832X.625	8/32 (6.35)	5/8 (15.88)
NMS832X.750	8/32 (6.35)	3/4 (19.05)
NMS832X.875	8/32 (6.35)	7/8 (22.23)
NMS832X1.000	8/32 (6.35)	1 (25.4)
NMS832X1.250	8/32 (6.35)	1-1/4 (31.75)
NMS832X1.500	8/32 (6.35)	1-1/2 (38.1)
NMS1024X.250	10/24 (10.58)	1/4 (6.35)
NMS1024X.312	10/24 (10.58)	5/16 (7.94)
NMS1024X.375	10/24 (10.58)	3/8 (9.53)
NMS1024X.500	10/24 (10.58)	1/2 (12.7)
NMS1024X.750	10/24 (10.58)	3/4 (19.05)
NMS1024X1.000	10/24 (10.58)	1 (25.4)
NMS1024X1.500	10/24 (10.58)	1-1/2 (38.1)
NMS1032X.125	10/32 (7.94)	1/8 (3.18)
NMS1032X.187	10/32 (7.94)	3/16 (4.76)
NMS1032X.250	10/32 (7.94)	1/4 (6.35)
NMS1032X.312	10/32 (7.94)	5/16 (7.94)
NMS1032X.375	10/32 (7.94)	3/8 (9.53)
NMS1032X.500	10/32 (7.94)	1/2 (12.7)
NMS1032X.625	10/32 (7.94)	5/8 (15.88)
NMS1032X.750	10/32 (7.94)	3/4 (19.05)
NMS1032X.875	10/32 (7.94)	7/8 (22.23)
NMS1032X1.000	10/32 (7.94)	1 (25.4)
NMS1032X1.250	10/32 (7.94)	1-1/4 (31.75)
NMS1032X1.500	10/32 (7.94)	1-1/2 (38.1)
NMS1032X2.000	10/32 (7.94)	2 (50.8)

PART NUMBER	SIZE (in)	LENGTH (in / mm)
NMS1420X.250	1/4-20	1/4 (6.35)
NMS1420X.312	1/4-20	5/16 (7.94)
NMS1420X.375	1/4-20	3/8 (9.53)
NMS1420X.500	1/4-20	1/2 (12.7)
NMS1420X.625	1/4-20	5/8 (15.88)
NMS1420X.750	1/4-20	3/4 (19.05)
NMS1420X.875	1/4-20	7/8 (22.23)
NMS1420X1.000	1/4-20	1 (25.4)
NMS1420X1.250	1/4-20	1-1/4 (31.75)
NMS1420X1.500	1/4-20	1-1/2 (38.1)
NMS1420X2.000	1/4-20	2 (50.8)
NMS1428X.500	1/4-28	1/2 (12.7)
NMS1428X.625	1/4-28	5/8 (15.88)
NMS1428X.750	1/4-28	3/4 (19.05)
NMS1428X1.000	1/4-28	1 (25.4)
NMS1428X1.250	1/4-28	1-1/4 (31.75)
NMS1428X1.500	1/4-28	1-1/2 (38.1)
NMS51618X.500	5/16-18	1/2 (12.7)
NMS51618X.750	5/16-18	3/4 (19.05)
NMS51618X.875	5/16-18	7/8 (22.23)
NMS51618X1.000	5/16-18	1 (25.4)
NMS51618X1.250	5/16-18	1-1/4 (31.75)
NMS51618X1.500	5/16-18	1-1/2 (38.1)
NMS51618X2.000	5/16-18	2 (50.8)
NMS51618X2.500	5/16-18	2-1/2 (63.5)
NMS51618X3.000	5/16-18	3 (76.2)
NMS3410X.250	3/4-10	1/4 (6.35)
NMS3816X.500	3/8-16	1/2 (12.7)
NMS3816X.750	3/8-16	3/4 (19.05)
NMS3816X1.000	3/8-16	1 (25.4)
NMS3816X1.250	3/8-16	1-1/4 (31.75)
NMS3816X1.500	3/8-16	1-1/2 (38.1)
NMS3816X2.000	3/8-16	2 (50.8)
NMS3816X2.500	3/8-16	2-1/2 (63.5)
NMS3816X3.000	3/8-16	3 (76.2)

Nylon Machine Screws

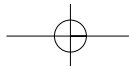
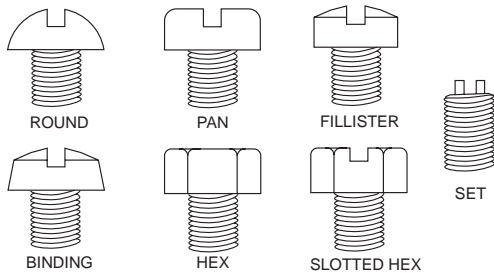
Nylon screws are anti-corrosive, non-marring, tough and lightweight. They conform to irregular surfaces and are friction, abrasion and vibration resistant, and are good electrical and thermal insulators.

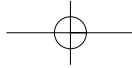
Specify head style by adding the following suffixes when ordering:

- BS = Binding
- FS = Fillister
- HS = Hex Slotted
- HU = Hex Unslotted
- PB = Phillips Binder
- PP = Phillips Pan
- PS = Pan Slotted
- RS = Round Slotted
- SS = Set Slotted
- SO = Socket Set

Minimum Order: 100 (Slotted Hex Minimum1,000)

Other sizes and lengths available.





Plastic Hardware

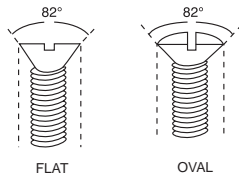
NYLON MACHINE SCREWS

J6

NYLON MACHINE SCREWS - FLAT AND OVAL HEAD (82°)

PART NUMBER	SIZE (in)	LENGTH (in / mm)
NMS256X.187	2/56 (.907)	3/16 (4.76)
NMS256X.250	2/56 (.907)	1/4 (6.35)
NMS256X.312	2/56 (.907)	5/16 (7.94)
NMS256X.375	2/56 (.907)	3/8 (9.53)
NMS256X.500	2/56 (.907)	1/2 (12.7)
NMS256X.625	2/56 (.907)	5/8 (15.88)
NMS256X.750	2/56 (.907)	3/4 (19.05)
NMS440X.187	4/40 (2.54)	3/16 (4.76)
NMS440X.250	4/40 (2.54)	1/4 (6.35)
NMS440X.312	4/40 (2.54)	5/16 (7.94)
NMS440X.375	4/40 (2.54)	3/8 (9.53)
NMS440X.500	4/40 (2.54)	1/2 (12.7)
NMS440X.625	4/40 (2.54)	5/8 (15.88)
NMS440X.750	4/40 (2.54)	3/4 (19.05)
NMS440X1.000	4/40 (2.54)	1 (25.4)
NMS440X1.250	4/40 (2.54)	1-1/4 (31.75)
NMS632X.187	6/32 (4.76)	3/16 (4.76)
NMS632X.250	6/32 (4.76)	1/4 (6.35)
NMS632X.312	6/32 (4.76)	5/16 (7.94)
NMS632X.375	6/32 (4.76)	3/8 (9.53)
NMS632X.500	6/32 (4.76)	1/2 (12.7)
NMS632X.625	6/32 (4.76)	5/8 (15.88)
NMS632X.750	6/32 (4.76)	3/4 (19.05)
NMS632X1.000	6/32 (4.76)	1 (25.4)
NMS632X1.250	6/32 (4.76)	1-1/4 (31.75)
NMS832X.250	8/32 (6.35)	1/4 (6.35)

PART NUMBER	SIZE (in)	LENGTH (in / mm)
NMS832X.312	8/32 (6.35)	5/16 (7.94)
NMS832X.375	8/32 (6.35)	3/8 (9.53)
NMS832X.500	8/32 (6.35)	1/2 (12.7)
NMS832X.625	8/32 (6.35)	5/8 (15.88)
NMS832X.750	8/32 (6.35)	3/4 (19.05)
NMS832X1.000	8/32 (6.35)	1 (25.4)
NMS1024X.500	10/24 (10.58)	1/2 (12.7)
NMS1032X.250	10/32 (7.94)	1/4 (6.35)
NMS1032X.312	10/32 (7.94)	5/16 (7.94)
NMS1032X.375	10/32 (7.94)	3/8 (9.53)
NMS1032X.500	10/32 (7.94)	1/2 (12.7)
NMS1032X.750	10/32 (7.94)	3/4 (19.05)
NMS1032X1.000	10/32 (7.94)	1 (25.4)
NMS1032X1.250	10/32 (7.94)	1-1/4 (31.75)
NMS1032X1.500	10/32 (7.94)	1-1/2 (38.1)
NMS1420X.250	1/4-20	1/4 (6.35)
NMS1420X.500	1/4-20	1/2 (12.7)
NMS1420X.625	1/4-20	5/8 (15.88)
NMS1420X.750	1/4-20	3/4 (19.05)
NMS1420X.875	1/4-20	7/8 (22.23)
NMS1420X1.000	1/4-20	1 (25.4)
NMS1420X1.250	1/4-20	1-1/4 (31.75)
NMS1420X1.500	1/4-20	1-1/2 (38.1)
NMS1420X2.000	1/4-20	2 (50.8)
NMS51618X1.000	5/16-18	1 (25.4)
NMS3816X1.750	3/8-16	1-3/4 (44.45)



Nylon Machine Screws – Flat and Oval Head

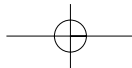
Specify head style by adding the following suffixes when ordering:

- FH = Flat
- OH = Oval

Minimum Order: 100 Flat Head; 1,000 Oval Head

Other sizes and lengths available.

Plastic Hardware



NYLON MACHINE SCREWS

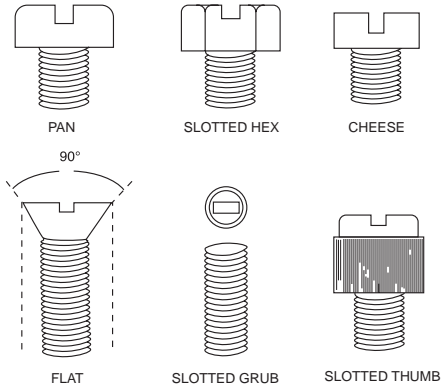
METRIC NYLON MACHINE SCREWS

J7

Metric Nylon Machine Screws

Serving the same purpose as standard nylon machine screws but with metric threads, diameters and lengths. They are anti-corrosive, non-marring, tough and lightweight.

Add the following suffixes to specify head styles when ordering:



- CS = Cheese Slotted
- HS = Hex Slotted
- HU = Hex Unslotted
- FP = Fillister Phillips
- FS = Fillister Slotted
- LP = Flat Phillips
- LS = Flat Slotted
- OS = Oval Slotted
- OP = Oval Phillips
- PP = Phillips Pan
- PS = Pan Slotted
- SG = Slotted Grub
- TS = Slotted Thumb Screw

Minimum order: 1,000

Plastic Hardware

METRIC NYLON MACHINE SCREWS

J8

METRIC NYLON MACHINE SCREWS

PART NUMBER	SIZE	LENGTH (mm)	PART NUMBER	SIZE	LENGTH (mm)
NMSM2X5	M2 PITCH .40	5	NMSM4X30	M4 PITCH .70	30
NMSM2X6	M2 PITCH .40	6	NMSM4X35	M4 PITCH .70	35
NMSM2X8	M2 PITCH .40	8	NMSM4X40	M4 PITCH .70	40
NMSM2X10	M2 PITCH .40	10	NMSM5X6	M5 PITCH .80	6
NMSM2X12	M2 PITCH .40	12	NMSM5X8	M5 PITCH .80	8
NMSM2X16	M2 PITCH .40	16	NMSM5X10	M5 PITCH .80	10
NMSM2X20	M2 PITCH .40	20	NMSM5X12	M5 PITCH .80	12
NMSM2.5X5	M2.5 PITCH .45	5	NMSM5X16	M5 PITCH .80	16
NMSM2.5X6	M2.5 PITCH .45	6	NMSM5X20	M5 PITCH .80	20
NMSM2.5X10	M2.5 PITCH .45	10	NMSM5X25	M5 PITCH .80	25
NMSM2.5X12	M2.5 PITCH .45	12	NMSM5X30	M5 PITCH .80	30
NMSM2.5X16	M2.5 PITCH .45	16	NMSM5X35	M5 PITCH .80	35
NMSM2.5X20	M2.5 PITCH .45	20	NMSM5X40	M5 PITCH .80	40
NMSM2.5X25	M2.5 PITCH .45	25	NMSM6X8	M6 PITCH 1.00	8
NMSM3X5	M3 PITCH .50	5	NMSM6X10	M6 PITCH 1.00	10
NMSM3X6	M3 PITCH .50	6	NMSM6X12	M6 PITCH 1.00	12
NMSM3X8	M3 PITCH .50	8	NMSM6X16	M6 PITCH 1.00	16
NMSM3X10	M3 PITCH .50	10	NMSM6X20	M6 PITCH 1.00	20
NMSM3X12	M3 PITCH .50	12	NMSM6X25	M6 PITCH 1.00	25
NMSM3X16	M3 PITCH .50	16	NMSM6X30	M6 PITCH 1.00	30
NMSM3X20	M3 PITCH .50	20	NMSM6X35	M6 PITCH 1.00	35
NMSM3X25	M3 PITCH .50	25	NMSM6X40	M6 PITCH 1.00	40
NMSM3X30	M3 PITCH .50	30	NMSM8X10	M8 PITCH 1.25	10
NMSM3.5X5	M3.5 PITCH .60	5	NMSM8X16	M8 PITCH 1.25	16
NMSM3.5X6	M3.5 PITCH .60	6	NMSM8X20	M8 PITCH 1.25	20
NMSM3.5X8	M3.5 PITCH .60	8	NMSM8X25	M8 PITCH 1.25	25
NMSM3.5X10	M3.5 PITCH .60	10	NMSM8X30	M8 PITCH 1.25	30
NMSM3.5X12	M3.5 PITCH .60	12	NMSM8X35	M8 PITCH 1.25	35
NMSM3.5X16	M3.5 PITCH .60	16	NMSM10X10	M10 PITCH 1.50	10
NMSM3.5X20	M3.5 PITCH .60	20	NMSM10X12	M10 PITCH 1.50	12
NMSM3.5X25	M3.5 PITCH .60	25	NMSM10X16	M10 PITCH 1.50	16
NMSM3.5X35	M3.5 PITCH .60	35	NMSM10X20	M10 PITCH 1.50	20
NMSM4X6	M4 PITCH .70	6	NMSM10X25	M10 PITCH 1.50	25
NMSM4X8	M4 PITCH .70	8	NMSM10X30	M10 PITCH 1.50	30
NMSM4X10	M4 PITCH .70	10	NMSM10X35	M10 PITCH 1.50	35
NMSM4X12	M4 PITCH .70	12	NMSM10X40	M10 PITCH 1.50	40
NMSM4X16	M4 PITCH .70	16	NMSM10X50	M10 PITCH 1.50	50
NMSM4X20	M4 PITCH .70	20	NMSM10X60	M10 PITCH 1.50	60
NMSM4X25	M4 PITCH .70	25			

SLOTTED GRUB SCREWS IN SIZES M4 TO M10 ONLY
 SLOTTED THUMB SCREWS IN SIZES M3 TO M6 ONLY
 OTHER LENGTHS AVAILABLE

H.B. ETLIN CO. LTD.

FOR MORE INFORMATION CALL
1-800-661-9610 (Canada) **1-888-762-5384** (USA)

Plastic Hardware

METRIC NYLON MACHINE SCREWS**TECHNICAL DATA FOR NYLON MACHINE SCREWS****J9**

DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

SIZE	ULTIMATE TORQUE	MAXIMUM TORQUE BEFORE DEFORMATION	TENSILE TEST		DOUBLE SHEAR	
			YIELD LBS	BREAK LBS	YIELD LBS	BREAK LBS
2/56	NO TEST	NO TEST	16	19	NO TEST	NO TEST
4/40	24" OZ	12" - 16" OZ	38	41	45	50
6/32	30" OZ	18" - 20" OZ	65	69	91	97
8/32	5" LBS	2" - 3" LBS	99	108	158	164
10/24	6" LBS	2" - 4" LBS	139	149	187	257
10/32	7" LBS	3" - 4" LBS	155	165	234	241
1/4-20	13" LBS	9" - 10" LBS	296	312	413	432

Moulded Nylon Screws – Technical Data

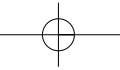
Moulded nylon parts are subject to moisture loss and gain. In moulded nylon screws, moistness or dryness can cause subtle size changes. The same is true for temperature change.

Additionally, there are tooling problems because all screws come from cavities parted along the screw length. Although the moulds are doweled and pinned to provide mould match, in the course of moulding, wear takes place on the pins, on the mould face and base and even on the moulding machine itself, thus working against ideal alignment. Moulded nylon screws are not held to tolerances as close as those for metal screws. However, the slight mismatch and the natural fractional flash are not as serious as they would be in metal. Nylon, being flexible, is also forgiving of tolerance lapses.

Nylon cannot be held to tolerances that apply to metal and the use of gauges to measure screws just doesn't work. They are tested by trying them in their actual applications. Otherwise, it is impractical for the customer to use them or the supplier to make them.

Amazingly enough, they work.

All tests performed per ASTM specifications. Parts moulded in Nylon 6/6 Dupont Zytel 101, dry as moulded, unmoisturized, at 73°F. Results are average of random parts tested.



NYLON MACHINE SCREWS

J10 TECHNICAL DATA FOR METAL CORE NYLON SCREWS

DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

SIZE	ULTIMATE TORQUE	MAXIMUM TORQUE BEFORE DEFORMATION	TENSILE TEST		DOUBLE SHEAR	
			YIELD LBS	BREAK LBS	YIELD LBS	BREAK LBS
6/32	1" LBS	1.5" LBS	24	32	200	240
8/32	3" LBS	4" LBS	66	72	300	360
10/32	5" LBS	6" LBS	96	104	600	640
1/4-20	12" LBS	13" LBS	120	174	1,400	1,600

METAL CORE NYLON SCREWS

Metal Core Nylon Screws

PART NUMBER	SIZE (in/mm)	LENGTH (in/mm)
NSMC632X.250	6/32 (4.76)	1/4 (6.35)
NSMC632X.375	6/32 (4.76)	3/8 (9.53)
NSMC632X.500	6/32 (4.76)	1/2 (12.7)
NSMC632X.625	6/32 (4.76)	5/8 (15.88)
NSMC632X.750	6/32 (4.76)	3/4 (19.05)
NSMC832X.375	8/32 (6.35)	3/8 (9.53)
NSMC832X.500	8/32 (6.35)	1/2 (12.7)
NSMC832X.750	8/32 (6.35)	3/4 (19.05)
NSMC832X1.000	8/32 (6.35)	1 (25.4)
NSMC1032X.375	10/32 (7.94)	3/8 (9.53)
NSMC1032X.500	10/32 (7.94)	1/2 (12.7)
NSMC1032X.750	10/32 (7.94)	3/4 (19.05)
NSMC1032X1.000	10/32 (7.94)	1 (25.4)
NSMC1420X.375	1/4-20	3/8 (9.53)
NSMC1420X.500	1/4-20	1/2 (12.7)
NSMC1420X.625	1/4-20	5/8 (15.88)
NSMC1420X.750	1/4-20	3/4 (19.05)
NSMC1420X1.000	1/4-20	1 (25.4)
NSMC1420X1.250	1/4-20	1-1/4 (31.75)
NSMC1420X1.500	1/4-20	1-1/2 (38.1)

Stocked in round and fillister heads. Also available in round washer head and flat head.

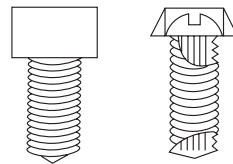
A hardened, cadmium plated, corrugated steel core inside a nylon screw. Provides up to four times the strength of standard nylon fasteners.

Recommended in applications requiring electrical, thermal and vibration insulation in shear or double shear connections. The recessed metal heads allow adequate torque and may be driven with power drivers.

Add the following suffixes to specify head styles when ordering:
 RO = Round
 FI = Fillister
 RW = Round Washer
 LS = Flat Slotted

Minimum order: 1,000

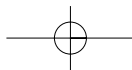
All tests performed per ASTM specifications. Parts moulded in Nylon 6/6 Dupont Zytel 101, dry as moulded, unmoisturized, at 73°F. Results are average of random parts tested.



FILLISTER

ROUND

Plastic Hardware



NYLON HEX BOLTS

J11

TECHNICAL DATA FOR NYLON HEX BOLTS (CAP SCREWS)

DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

SIZE	ULTIMATE TORQUE	MAXIMUM TORQUE BEFORE DEFORMATION	TENSILE TEST		DOUBLE SHEAR	
			YIELD LBS	BREAK LBS	YIELD LBS	BREAK LBS
1/4-20	19" LBS	15-16 " LBS	200	228	413	432
5/16-18	37" LBS	32-34" LBS	403	424	866	880
3/8-16	49" LBS	45-46" LBS	480	513	1,108	1,173
1/2-13	11' LBS	7-8' LBS	1,393	1,425	2,276	2,313
5/8-11	22' LBS	18-19' LBS	2,260	2,303	3,340	3,410

Nylon Hex Bolts (Cap Screws)

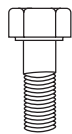
Add the following suffixes to specify head styles when ordering:

HU = Hex Unslotted
 HS = Hex Slotted

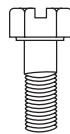
Minimum order:

Hex Head: 100
 Slotted Hex: 500
 Thread Length:

Bolts are usually threaded as follows:
 (Diameter X 2) + 1/2 inch



HEX



SLOTTED HEX

Nylon Hex Bolts (Cap Screws) – Technical Data

All tests performed per ASTM specifications. Parts moulded in Nylon 6/6 Dupont Zytel 101, dry as moulded, unmoisturized, at 73°F. Results are average of random parts tested.

TECHNICAL DATA FOR NYLON HEX BOLTS (CAP SCREWS)

NOMINAL DIMENSIONS - DATA LISTED FOR REFERENCES PURPOSES ONLY

HEAD TYPE	DIMENSION	THREAD SIZE (in)				
		1/4	5/16	3/8	1/2	5/8
	H	.175	.215	.250	.320	.390
	W	.500	.555	.625	.850	1.100
	A	.425	.485	.565	.740	.935

Plastic Hardware

NYLON HEX BOLTS

J12

NYLON HEX BOLTS (CAP SCREWS)

PART NUMBER	SIZE	LENGTH (in/mm)	PART NUMBER	SIZE	LENGTH (in/mm)
NHB1420X.375	1/4-20*	3/8 (9.53)	NHB3816X.750	3/8-16	3/4 (19.05)
NHB1420X.500	1/4-20*	1/2 (12.7)	NHB3816X1.000	3/8-16	1 (25.4)
NHB1420X.625	1/4-20*	5/8 (15.88)	NHB3816X1.250	3/8-16	1-1/4 (31.75)
NHB1420X.750	1/4-20*	3/4 (19.05)	NHB3816X1.500	3/8-16	1-1/2 (38.1)
NHB1420X1.000	1/4-20*	1 (25.4)	NHB3816X2.000	3/8-16	2 (50.8)
NHB1420X1.250	1/4-20*	1-1/4 (31.75)	NHB3816X2.500	3/8-16	2-1/2 (63.5)
NHB1420X1.500	1/4-20*	1-1/2 (38.1)	NHB3816X3.000	3/8-16	3 (76.2)
NHB1420X2.000	1/4-20*	2 (50.8)	NHB1213X.500	1/2-13	1/2 (12.7)
NHB1420X2.500	1/4-20*	2-1/2 (63.5)	NHB1213X.750	1/2-13	3/4 (19.05)
NHB1420X3.000	1/4-20*	3 (76.2)	NHB1213X1.000	1/2-13	1 (25.4)
NHB1428X.500	1/4-28	1/2 (12.7)	NHB1213X1.250	1/2-13	1-1/4 (31.75)
NHB1428X.625	1/4-28	5/8 (15.88)	NHB1213X1.500	1/2-13	1-1/2 (38.1)
NHB1428X.750	1/4-28	3/4 (19.05)	NHB1213X2.000	1/2-13	2 (50.8)
NHB1428X1.000	1/4-28	1 (25.4)	NHB1213X2.500	1/2-13	2-1/2 (63.5)
NHB1428X1.250	1/4-28	1-1/4 (31.75)	NHB1213X3.000	1/2-13	3 (76.2)
NHB1428X1.500	1/4-28	1-1/2 (38.1)	NHB5811X.500	5/8-11	1/2 (12.7)
NHB1618X.500	5/16-18	1/2 (12.7)	NHB5811X1.000	5/8-11	1 (25.4)
NHB51618X.750	5/16-18	3/4 (19.05)	NHB5811X2.000	5/8-11	2 (50.8)
NHB51618X1.000	5/16-18	1 (25.4)	NHB5811X4.000**	5/8-11	4 (101.6)
NHB51618X1.250	5/16-18	1-1/4 (31.75)	NHB3410X.750	3/4-10	3/4 (19.05)
NHB51618X1.500	5/16-18	1-1/2 (38.1)	NHB3410X4.000**	3/4-10	4 (101.6)
NHB51618X2.000	5/16-18	2 (50.8)	NHB3410X5.500	3/4-10	5-1/2 (139.7)
NHB51618X2.500	5/16-18	2-1/2 (63.5)	NHB789X.750	7/8-9	3/4 (19.05)
NHB51618X3.000	5/16-18	3 (76.2)	NHB789X4.500**	7/8-9	4-1/2 (114.3)
NHB3816X.500	3/8-16	1/2 (12.7)			

* ALSO AVAILABLE IN SOCKET HEAD AND PHILLIPS FILLISTER

** FULLY THREADED

LONGER LENGTHS AVAILABLE

Plastic Hardware

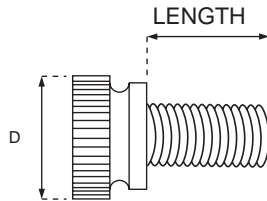
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FOR MORE INFORMATION CALL
1-800-661-9610 (Canada) 1-888-762-5384 (USA)

NYLON THUMB SCREWS

NYLON THUMB SCREWS - KNURLED THUMB SCREWS

J13



Nylon Thumb Screws – Knurled Thumb Screws

Thumb screws offer easy assembly and adjustment and will not cut fingers.

Vibration-resistant, they stay in place and are knurled for positive grip.

These can be used as an economical alternative for knobs.

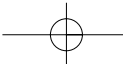
Minimum order: 1,000

Other sizes and lengths available.

PART NUMBER	SIZE (mm/in)	LENGTH (in/mm)	D (in/mm)
NKTS440X.187	4/40 (2.54)	3/16 (4.76)	.300 (7.62)
NKTS440X.250	4/40 (2.54)	1/4 (6.35)	.300 (7.62)
NKTS440X.375	4/40 (2.54)	3/8 (9.53)	.300 (7.62)
NKTS440X.500	4/40 (2.54)	1/2 (12.7)	.300 (7.62)
NKTS440X.750	4/40 (2.54)	3/4 (19.05)	.300 (7.62)
NKTS632X.250	6/32 (4.76)	1/4 (6.35)	.360 (9.14)
NKTS632X.375	6/32 (4.76)	3/8 (9.53)	.360 (9.14)
NKTS632X.500	6/32 (4.76)	1/2 (12.7)	.360 (9.14)
NKTS632X.750	6/32 (4.76)	3/4 (19.05)	.360 (9.14)
NKTS632X1.000	6/32 (4.76)	1 (25.4)	.360 (9.14)
NKTS832X.187	8/32 (6.35)	3/16 (4.76)	.425 (10.8)
NKTS832X.375	8/32 (6.35)	3/8 (9.53)	.425 (10.8)
NKTS832X.500	8/32 (6.35)	1/2 (12.7)	.425 (10.8)
NKTS832X.750	8/32 (6.35)	3/4 (19.05)	.425 (10.8)
NKTS832X1.000	8/32 (6.35)	1 (25.4)	.425 (10.8)
NKTS1024X.500	10/24 (10.58)	1/2 (12.7)	.425 (10.8)
NKTS1024X.750	10/24 (10.58)	3/4 (19.05)	.425 (10.8)
NKTS1024X1.000	10/24 (10.58)	1 (25.4)	.425 (10.8)
NKTS1024X1.250	10/24 (10.58)	1-1/4 (31.75)	.425 (10.8)
NKTS1024X2.000	10/24 (10.58)	2 (50.8)	.425 (10.8)
NKTS1032X.375	10/32 (7.94)	3/8 (9.53)	.425 (10.8)
NKTS1032X.500	10/32 (7.94)	1/2 (12.7)	.425 (10.8)
NKTS1032X.750	10/32 (7.94)	3/4 (19.05)	.425 (10.8)
NKTS1032X1.000	10/32 (7.94)	1 (25.4)	.425 (10.8)
NKTS1032X1.062	10/32 (7.94)	1-1/16 (26.99)	.425 (10.8)
NKTS1032X1.500	10/32 (7.94)	1-1/2 (38.1)	.425 (10.8)
NKTS1032X2.000	10/32 (7.94)	2 (50.8)	.425 (10.8)
NKTS1420X.500	1/4-20	1/2 (12.7)	.540 (13.72)
NKTS1420X.750	1/4-20	3/4 (19.05)	.540 (13.72)
NKTS1420X1.000	1/4-20	1 (25.4)	.540 (13.72)
NKTS1420X1.250	1/4-20	1-1/4 (31.75)	.540 (13.72)
NKTS1420X1.500	1/4-20	1-1/2 (38.1)	.540 (13.72)
NKTS51618X.500	5/16-18	1/2 (12.7)	.615 (15.62)
NKTS51618X1.000	5/16-18	1 (25.4)	.615 (15.62)
NKTS51618X1.500	5/16-18	1-1/2 (38.1)	.615 (15.62)
NKTS51618X2.000	5/16-18	2 (50.8)	.615 (15.62)
NKTS3816X.500	3/8-16	1/2 (12.7)	.687 (17.45)
NKTS3816X1.000	3/8-16	1 (25.4)	.687 (17.45)
NKTS3816X1.500	3/8-16	1-1/2 (38.1)	.687 (17.45)
NKTS3816X2.000	3/8-16	2 (50.8)	.687 (17.45)
NKTS3816X.500	3/8-16	1/2 (12.7)	.687 (17.45)
NKTS1213X1.000	1/2-13	1 (25.4)	.750 (19.05)
NKTS1213X1.500	1/2-13	1-1/2 (38.1)	.750 (19.05)
NKTS1213X2.000	1/2-13	2 (50.8)	.750 (19.05)

Plastic Hardware

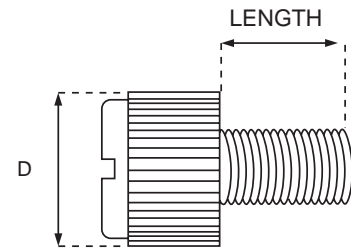
Plastic Hardware



SLOTTED THUMB SCREWS

J14 NYLON THUMB SCREWS - SLOTTED THUMB SCREWS

PART NUMBER	SIZE (mm/in)	LENGTH (in/mm)	D (in/mm)
NTS440X.250	4/40 (2.54)	1/4 (6.35)	.317 (8.05)
NTS440X.312	4/40 (2.54)	5/16 (7.94)	.317 (8.05)
NTS440X.375	4/40 (2.54)	3/8 (9.53)	.317 (8.05)
NTS440X.500	4/40 (2.54)	1/2 (12.7)	.317 (8.05)
NTS440X.625	4/40 (2.54)	5/8 (15.88)	.317 (8.05)
NTS440X1.000	4/40 (2.54)	1 (25.4)	.317 (8.05)
NTS632X.250	6/32 (4.76)	1/4 (6.35)	.348 (8.84)
NTS632X.375	6/32 (4.76)	3/8 (9.53)	.348 (8.84)
NTS632X.500	6/32 (4.76)	1/2 (12.7)	.348 (8.84)
NTS632X.750	6/32 (4.76)	3/4 (19.05)	.348 (8.84)
NTS632X1.000	6/32 (4.76)	1 (25.4)	.348 (8.84)
NTS832X.250	8/32 (6.35)	1/4 (6.35)	.381 (9.68)
NTS832X.375	8/32 (6.35)	3/8 (9.53)	.381 (9.68)
NTS832X.500	8/32 (6.35)	1/2 (12.7)	.381 (9.68)
NTS832X.625	8/32 (6.35)	5/8 (15.88)	.381 (9.68)
NTS832X.750	8/32 (6.35)	3/4 (19.05)	.381 (9.68)
NTS832X1.000	8/32 (6.35)	1 (25.4)	.381 (9.68)
NTS1024X.250	10/24 (10.58)	1/4 (6.35)	.412 (10.46)
NTS1024X.500	10/24 (10.58)	1/2 (12.7)	.412 (10.46)
NTS1024X1.000	10/24 (10.58)	1 (25.4)	.412 (10.46)
NTS1032X.375	10/24 (7.94)	3/8 (9.53)	.412 (10.46)
NTS1032X.500	10/32 (7.94)	1/2 (12.7)	.412 (10.46)
NTS1032X.750	10/32 (7.94)	3/4 (19.05)	.412 (10.46)
NTS1032X1.000	10/32 (7.94)	1 (25.4)	.412 (10.46)
NTS1032X1.250	10/32 (7.94)	1-1/4 (31.75)	.412 (10.46)
NTS1032X1.500	10/32 (7.94)	1-1/2 (38.1)	.412 (10.46)
NTS1420X.250	14-20*	1/4 (6.35)	.492 (12.5)
NTS1420X.500	14-20*	1/2 (12.7)	.492 (12.5)
NTS1420X.625	14-20*	3/8 (9.53)	.492 (12.5)
NTS1420X.750	14-20*	3/4 (19.05)	.492 (12.5)
NTS1420X1.000	14-20*	1 (25.4)	.492 (12.5)
NTS1420X1.250	14-20*	1-1/4 (31.75)	.492 (12.5)
NTS1420X1.500	14-20*	1-1/2 (38.1)	.492 (12.5)
NTS1428X.187	14-28	3/16 (4.76)	.480 (12.19)
NTS1428X.250	14-28	1/4 (6.35)	.480 (12.19)
NTS1428X.375	14-28	3/8 (9.53)	.480 (12.19)
NTS1428X.750	14-28	3/4 (19.05)	.480 (12.19)
NTS1428X1.000	14-28	1 (25.4)	.480 (12.19)



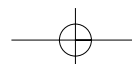
Slotted Thumb Screws

Minimum order: 1,000

Other standard and metric sizes and lengths available.

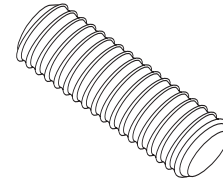
Plastic Hardware

* UNSLOTTED AVAILABLE IN 1/4-20 SIZE ONLY. SUBSTITUTE PREFIX UTS WHEN ORDERING.



THREADED & UNTHREADED RODS**ROD - THREADED AND UNTHREADED****J15**

PART NUMBER	SIZE (in/mm)
NTR4/40N	4/40 (2.54)
NTR6/32N	6/32 (4.76)
NTR8/32N	8/32 (6.35)
NTR10/24N	10/24 (10.58)
NTR10/32N	10/32 (7.94)
NTR1/4-20N	1/4-20
NTR5/16-18N	5/16-18
NTR3/8-16N	3/8-16
NTR1/2-13N	1/2-13
NTR5/8-11N	5/8-11
NTR3/4-10N	3/4-10
NTR7/8-9N	7/8-9
NTR1-8N	1-8



SOLD IN 2 FOOT LENGTHS

Nylon Threaded Rod

Use with corresponding nuts for longer length or non-standard bolts. Can be bent with heat to form U-bolts or other shapes.

This versatile threaded rod stock is easily cut to size, resistant to most chemicals, electrically insulating, non-magnetic, lightweight, low thermal conductivity, vibration and abrasion resistant.

Stock length is 2 feet.

Longer lengths up to 8 feet are available on special order.

We can furnish cut to your length with a nominal cutting charge.

Other plastic materials can be furnished on special order, contact the factory.

PVC Threaded Rod

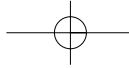
Minimum order: 5 feet. Sold in 5-foot lengths only. Other sizes available.

FRP Threaded Rod

Sold in 4-foot lengths only. Minimums on request. Glass-filled polyphenyl sulphide nuts are available

Nylon Unthreaded Rod

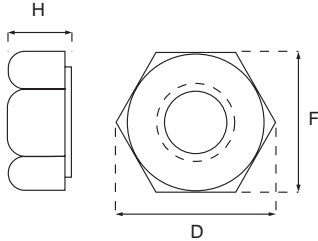
Minimum order 10 feet. Sold in 10-foot lengths only.



Plastic Hardware

NYLON HEX NUTS

J16 NYLON NUTS - HEX NUTS (SINGLE CHAMFERED, WASHER FACED)



Nylon Nuts – Hex Nuts (Single chamfered, washer faced)

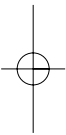
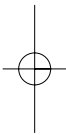
Especially useful with brittle surfaces such as glass, ceramic or enamel.

Their resilience allows even load distribution, particularly on irregular surfaces.

Minimum order: 100

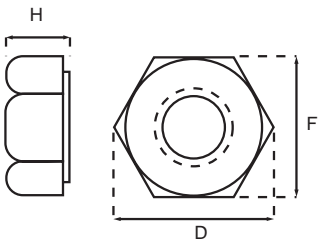
* AVAILABLE IN THINNER HEX JAM NUT

PART NUMBER	F	D	H
NHN2/56	.180 (4.57)	.205 (5.21)	.070 (1.78)
NHN3/48	.180 (4.57)	.205 (5.21)	.070 (1.78)
NHN4/40	.250 (6.35)	.275 (6.99)	.100 (2.54)
NHN6/32	.305 (7.75)	.350 (8.89)	.120 (3.05)
NHN6/40	.305 (7.75)	.350 (8.89)	.120 (3.05)
NHN8/32	.335 (8.51)	.380 (9.65)	.130 (3.30)
NHN10/24	.365 (9.27)	.420 (10.67)	.135 (3.43)
NHN10/32	.365 (9.27)	.420 (10.67)	.135 (3.43)
NHN12/24	.425 (10.80)	.510 (12.95)	.207 (5.26)
NHN1/4-20	.433 (11.00)	.510 (12.95)	.233 (5.92)
NHN1/4-28	.433 (11.00)	.510 (12.95)	.233 (5.92)
NHN5/16-18*	.500 (12.7)	.575 (14.61)	.270 (6.86)
NHN5/16-24	.500 (12.7)	.575 (14.61)	.270 (6.86)
NHN3/8-16*	.560 (14.22)	.630 (16.00)	.330 (8.38)
NHN3/8-24	.560 (14.22)	.630 (16.00)	.330 (8.38)
NHN3/8-32	.560 (14.22)	.630 (16.00)	.330 (8.38)
NHN7/16-14	.685 (17.40)	.780 (19.81)	.380 (9.65)
NHN7/16-20	.685 (17.40)	.780 (19.81)	.380 (9.65)
NHN1/2-13*	.750 (19.05)	.860 (21.84)	.430 (10.92)
NHN1/2-20	.750 (19.05)	.860 (21.84)	.430 (10.92)
NHN5/8-11*	.925 (23.50)	1.050 (26.68)	.550 (13.97)
NHN5/8-18	.925 (23.50)	1.050 (26.68)	.550 (13.97)
NHN11/16-27	1.000 (25.4)	1.140 (28.96)	.250 (6.35)
NHN3/4-10	1.100 (27.94)	1.250 (31.75)	.640 (16.26)
NHN7/8-9	1.280 (32.51)	1.480 (37.59)	.750 (19.05)
NHN1"-8	1.470 (37.34)	1.700 (43.18)	.870 (22.10)



Plastic Hardware

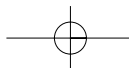
METRIC HEX NUTS



Metric Hex Nuts

Minimum order: 1,000

PART NUMBER	PITCH	F (mm)	D (mm)	H (mm)
NLMHN2	.40	3.90	4.50	1.2
NLMHN2.5	.45	4.960	5.60	1.8
NLMHN3	.50	5.40	6.20	2.2
NLMHN3.5	.60	6.90	7.90	2.7
NLMHN4	.70	6.90	7.90	3.0
NLMHN5	.80	7.90	9.00	4.3
NLMHN6	1.00	10.00	11.30	5.4
NLMHN8	1.25	12.90	14.70	6.4
NLMHN10	1.50	14.80	17.00	9.8



NYLON HEX NUTS**J17****TECHNICAL DATA FOR NYLON NUTS**

DATA LISTED IS FOR REFERENCE PURPOSES ONLY

SIZE	TEST NO. 1 TENSILE LBS	TEST NO. 2 ULTIMATE TORQUE	RECOMMENDED TORQUE BEFORE DEFORMATION
4/40	85	2 INCH LBS	1.5 INCH LBS
6/32	135	5.2 INCH LBS	4 INCH LBS
8/32	172	6.8 INCH LBS	5 INCH LBS
10/24	211	7 INCH LBS	5.5 INCH LBS
10/32	276	8 INCH LBS	6.5 INCH LBS
1/4-20	311	19.3 INCH LBS	17 INCH LBS
5/16-18	877	44.3 INCH LBS	42 INCH LBS
3/8-16	994	74 INCH LBS	72 INCH LBS
1/2-13	2,367	15.7 FOOT LBS	13 FOOT LBS
5/8-11	3,487	31.7 FOOT LBS	30 FOOT LBS

Nylon Nuts – Technical Data

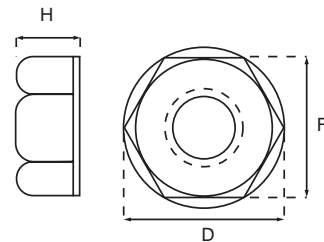
Test No. 1 Pull Test: Nylon Nut on Metal Screw

Test No. 2 Torque: Nylon Nut on Metal Screw

All tests performed per ASTM specifications. Parts moulded in Nylon 6/6 Dupont Zytel 101, dry as moulded, unmoisturized, at 73°F. Results are average of random parts tested.

LOCKING HEX NUTS

PART NUMBER	F	D	H
NLHN2/56	.180 (4.57)	.205 (5.21)	.140 (3.56)
NLHN4/40	.250 (6.35)	.275 (6.99)	.200 (5.08)
NLHN6/32	.305 (7.75)	.350 (8.89)	.200 (5.08)
NLHN8/32	.335 (8.51)	.380 (9.65)	.230 (5.84)
NLHN10/24	.365 (9.27)	.420 (10.67)	.250 (6.35)
NLHN10/32*	.365 (9.27)	.420 (10.67)	.250 (6.35)
NLHN1/4-20	.425 (10.80)	.510 (12.95)	.275 (6.99)



* ALSO AVAILABLE WITH LH6/32 BODY AND TAPPED 10/32. PART NUMBER IS LH6-10/32.

Locking Hex Nuts

Minimum order: 100

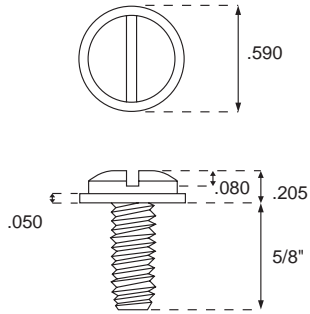
H.B. ETLIN CO. LTD.

FOR MORE INFORMATION CALL
1-800-661-9610 (Canada) 1-888-762-5384 (USA)

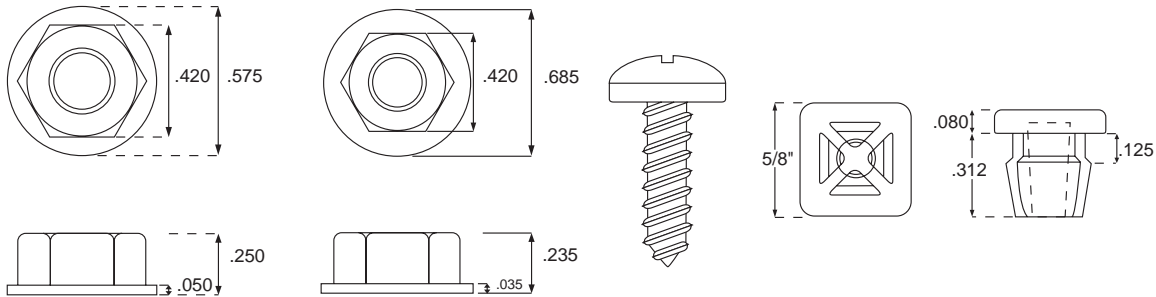
Plastic Hardware

SPECIALTY NYLON HEX & BOLT SETS

J18 NYLON LICENSE PLATE NUT AND BOLT SETS



PART NUMBER	DESCRIPTION
NLPNB12520062	STANDARD BOLT
NLPNB42520	STANDARD NUT
NLPNB42520S	SPECIAL STANDARD NUT
MS11032W06Z	METAL SCREW; 10-32 X 5/8" PHIL PAN
60SGN01010	GROMMET
60SGN01010LPS	FOUR PIECE SET



Nylon License Plate Nut and Bolt Sets

Part number **60SGN01010LPS** is a set of deluxe license plate fasteners, packaged in a clear poly bag. The set includes two each of part number **60SGN01010** (grommet) and **011032W062ZP** (zinc plated screw).

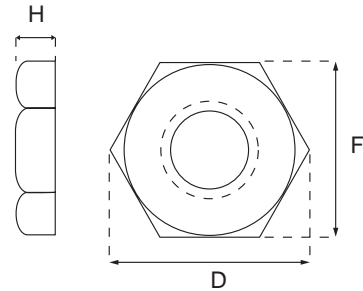
Plastic Hardware

NYLON HEX NUTS

STANDARD JAM NUTS

J19

PART NUMBER	F	D	H
JN5/16-18	.500 (12.70)	.575 (14.61)	.190 (4.83)
JN5/16-24	.500 (12.70)	.575 (14.61)	.190 (4.83)
JN3/8-16	.500 (12.70)	.575 (14.61)	.125 (3.18)
JN3/8-24	.500 (12.70)	.575 (14.61)	.125 (3.18)
JN3/8-32	.500 (12.70)	.575 (14.61)	.125 (3.18)
JN3/8-16SPEC	.670 (17.02)	.760 (19.30)	.219 (5.56)
JN7/16-14	.687 (17.45)	.780 (19.81)	.375 (9.53)
JN7/16-20	.687 (17.45)	.780 (19.81)	.250 (6.35)
JN15/32-32	.625 (15.88)	.720 (18.29)	.125 (3.18)
JN1/2-13	.687 (17.45)	.790 (20.06)	.220 (5.59)
JN1/2-24	.687 (17.45)	.780 (19.81)	.220 (5.59)
JN1/2-28	.660 (16.76)	.755 (19.18)	.125 (3.18)
JN9/16-18	.750 (19.05)	.860 (21.84)	.250 (6.35)
JN5/8-11	.930 (23.62)	1.07 (27.18)	.375 (9.53)
JN5/8-18	.937 (23.80)	1.07 (27.18)	.375 (9.53)
JN3/4-10	1.12 (28.50)	1.26 (32.00)	.250 (6.35)
JN3/4-16	1.12 (28.50)	1.26 (32.00)	.250 (6.35)
JN3/4-27	1.00 (25.40)	1.14 (28.96)	.125 (3.18)
JN7/8-14	1.25 (31.75)	1.43 (36.32)	.340 (8.64)
JN1-8	1.48 (37.59)	1.70 (43.18)	.410 (10.41)
JN1/8-27	.56 (14.22)	.64 (6.26)	.110 (2.79)
JN1/4-18NPT	.740 (18.80)	.850 (21.60)	.187 (4.75)
JN3/8-18NPT	1.00 (25.40)	1.15 (29.21)	.280 (7.11)
JN1/2-14NPT	1.25 (31.75)	1.43 (36.32)	.340 (8.64)
JN3/4-14NPT	1.48 (37.59)	1.70 (43.18)	.410 (10.41)
JN1/4-18NPS	1.48 (37.59)	1.70 (43.18)	.410 (10.41)
JN3/8-18NPS	.687 (17.45)	.796 (20.22)	.225 (5.72)
JN1/2-14NPS	1.00 (25.40)	1.15 (29.21)	.280 (7.11)
JN3/4-14NPS	1.25 (31.75)	1.43 (36.32)	.340 (8.64)
JN3/4-14NPS	1.48 (37.59)	1.70 (43.18)	.410 (10.41)



Standard Jam Nuts

Minimum order: 1,000

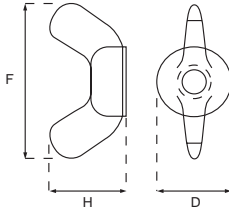
Plastic Hardware

NYLON WING NUTS

J20

WING NUTS

WING NUT



Nylon Wing Nuts

Minimum order: 100

Nylon Deco Wing Nuts, Nylon Locking Deco Wing Nuts

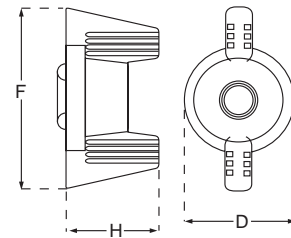
Similar to our standard cap nut, except with a molded-in locking thread. Use for applications which require higher torque, vibration resistance or a more secure assembly.
Minimum order: 100

PART NUMBER	F	D	H
NWN4/40	.900 (22.86)	.400 (10.16)	.480 (12.19)
NWN6/32	.900 (22.86)	.400 (10.16)	.480 (12.19)
NWN8/32	.900 (22.86)	.400 (10.16)	.480 (12.19)
NWN10/24	.900 (22.86)	.400 (10.16)	.480 (12.19)
NWNS10/24	1.100 (27.94)	.560 (14.22)	.630 (16.00)
NWN10/32	.900 (22.86)	.400 (10.16)	.480 (12.19)
NWNS10/32	1.100 (27.94)	.560 (14.22)	.630 (16.00)
NWNS1/4-20	1.100 (27.94)	.560 (14.22)	.630 (16.00)
NWN1/4-20	1.360 (34.54)	.650 (16.51)	.700 (17.78)
NWNS1/4-28	1.100 (27.94)	.560 (14.22)	.630 (16.00)
NWN1/4-28	1.380 (35.05)	.650 (16.51)	.700 (17.78)
NWN5/16-18	1.380 (35.05)	.650 (16.51)	.700 (17.78)
NWN3/8-16	1.380 (35.05)	.650 (16.51)	.700 (17.78)
NWN7/16-14	1.76 (44.70)	.850 (21.59)	.900 (22.86)
NWN1/2-13	1.76 (44.70)	.850 (21.59)	.900 (22.86)
NWN9/16-12	1.76 (44.70)	.850 (21.59)	.900 (22.86)

NYLON DECO WING NUTS

PART NUMBER	F	D	H
NDWN4/40	5/8 (15.88)	3/8 (9.53)	5/16 (7.94)
NDWN6/32	5/8 (15.88)	3/8 (9.53)	5/16 (7.94)
NDWN8/32	5/8 (15.88)	3/8 (9.53)	5/16 (7.94)
NDWN10/24	7/8 (22.23)	1/2 (12.70)	7/16 (11.10)
NDWN10/32	7/8 (22.23)	1/2 (12.70)	7/16 (11.10)
NDWN1/4-20	1-11/64 (29.74)	5/8 (15.88)	17/32 (13.49)
NDWN3/8-24	1-9/16 (39.67)	63/64 (25.0)	29/64 (11.51)

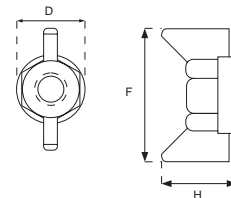
DECO WING NUT



NYLON LOCKING DECO WING NUTS

PART NUMBER	F	D	H
NLDWN4/40	5/8 (15.88)	3/8 (9.53)	5/16 (7.94)
NLDWN6/32	5/8 (15.88)	3/8 (9.53)	5/16 (7.94)
NLDWN8/32	5/8 (15.88)	3/8 (9.53)	5/16 (7.94)
NLDWN10/24	7/8 (22.23)	1/2 (12.70)	7/16 (11.10)
NLDWN10/32	7/8 (22.23)	1/2 (12.70)	7/16 (11.10)
NLDWN1/4-20	1-11/64 (29.74)	5/8 (15.88)	17/32 (13.49)
NLDWN5/16-18*	1-9/16 (39.67)	63/64 (25.0)	29/64 (11.51)

LOCKING WING NUT



*PART IS FLUSH ACROSS WINGS

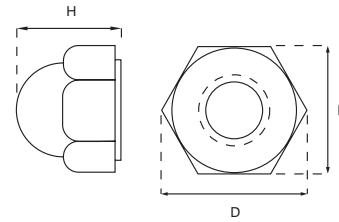
Plastic Hardware

MISCELLANEOUS NYLON NUTS

CAP NUTS

J21

PART NUMBER	F	D	H
CN4/40	.250 (6.35)	.275 (6.98)	.280 (7.11)
CN6/32	.305 (7.75)	.350 (8.89)	.345 (8.76)
CN8/32	.330 (8.38)	.380 (9.65)	.375 (9.53)
CN10/24	.365 (9.27)	.420 (10.67)	.400 (10.16)
CN10/32	.365 (9.27)	.420 (10.67)	.400 (10.16)
CN1/4-20	.425 (10.80)	.510 (12.95)	.475 (12.07)
CN1/4-28	.425 (10.80)	.510 (12.95)	.475 (12.07)
CN5/16-18	.500 (12.70)	.570 (14.48)	.530 (13.46)
CN5/16-24	.500 (12.70)	.575 (14.61)	.530 (13.46)
CN3/8-16	.560 (14.22)	.645 (16.38)	.620 (15.75)
CN3/8-24	.560 (14.22)	.630 (16.00)	.620 (15.75)
CN1/2-13	.750 (19.05)	.860 (21.84)	.810 (20.57)
CN5/8-11	.935 (23.75)	1.075 (27.30)	.970 (24.64)

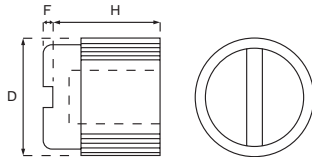


Cap Nuts

Minimum order: 100

SLOTTED THUMB (CAP) NUTS

SLOTTED NUT



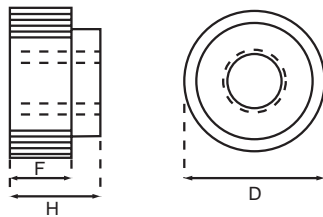
Slotted Thumb (Cap) Nuts

Minimum order: 100

PART NUMBER	F	D	H
NSTN4/40	.045 (1.14)	.317 (8.05)	.295 (7.49)
NSTN6/32	.051 (1.30)	.348 (8.84)	.334 (8.48)
NSTN8/32	.059 (1.50)	.381 (9.68)	.378 (9.60)
NSTN10/24	.068 (1.73)	.400 (10.16)	.23/64 (9.12)
NSTN10/32	.068 (1.73)	.400 (10.16)	.23/64 (9.12)
NSTN1/4-20	.088 (2.24)	.478 (12.14)	.370 (9.40)

THROUGH THUMB NUTS

THROUGH NUT



Through Thumb Nuts

Minimum order: 100

PART NUMBER	F	D	H
NTTN4/40	.120 (3.05)	.300 (7.62)	.280 (7.11)
NTTN6/32	.125 (3.18)	.360 (9.14)	.275 (6.99)
NTTN8/32	.140 (3.56)	.425 (10.80)	.305 (7.75)
NTTN10/24	.140 (3.56)	.425 (10.80)	.325 (8.26)
NTTN10/32	.140 (3.56)	.425 (10.80)	.325 (8.26)
NTTN1/4-20	.155 (3.94)	.540 (13.72)	.365 (9.27)
NTTN5/16-18	.171 (4.34)	.615 (15.62)	.385 (9.78)
NTTN3/8-16	.187 (4.75)	.687 (17.45)	.430 (10.92)
NTTN1/2-13	.203 (5.16)	.750 (19.05)	.468 (11.89)

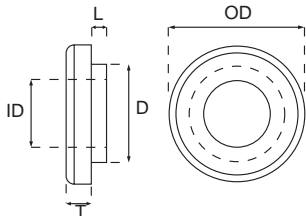
Plastic Hardware



NYLON FINISHING WASHERS

J22

SHOULDER WASHERS - STANDARD NYLON SHOULDER WASHERS



PART NUMBER	ID	OD	T	D	L
NSW2	.093 (2.36)	.250 (6.35)	.040 (1.02)	.156 (3.96)	.040 (1.02)
NSW4	.122 (3.09)	.281 (7.14)	.040 (1.02)	.187 (4.75)	.040 (1.02)
NSW6	.146 (3.71)	.328 (8.33)	.040 (1.02)	.218 (5.54)	.040 (1.02)
NSW8	.174 (4.42)	.375 (9.53)	.050 (1.27)	.250 (6.35)	.050 (1.27)
NSW10	.201 (5.11)	.437 (11.10)	.050 (1.27)	.281 (7.14)	.050 (1.27)
NSW1/4	.260 (6.60)	.562 (14.27)	.060 (1.52)	.375 (9.53)	.060 (1.52)
NSW3/8	.385 (9.78)	.750 (19.05)	.060 (1.52)	.500 (12.7)	.060 (1.52)

NYLON SHOULDER WASHERS

Shoulder Washers and Screw Insulators – Standard Nylon Shoulder Washers

Minimum order: 1,000

Special Nylon Shoulder Washers and Screw Insulators

Tolerances all dimensions ± 0.015

Suitable for a variety of insulation and mechanical applications.

They seal, reduce vibration, act as spacers, guides, bushings and bearings. Isolate metal screws electrically and reduce corrosion.

They can also be used as light load bearings in many applications. Shoulder washers are shown with prefix NSW.

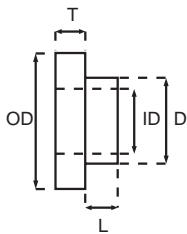
Screw insulators are for standard screw sizes (#2 up to 1/4) and are shown with the prefix SC.

Shoulder washers can often be interchanged with screw insulators, but they tend to have a shorter shank (L dimension).

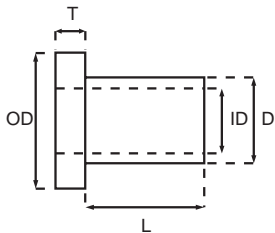
Custom sizes can be tooled for moulding.

Please specify size, quantity and tolerances when requesting a quote.

Minimum order: 1,000

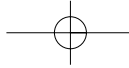


SHOULDER WASHER



SCREW INSULATOR

Plastic Hardware



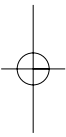
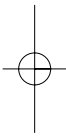
Plastic Hardware

NYLON SHOULDER WASHERS

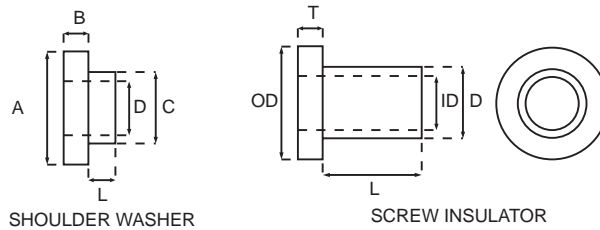
NYLON SHOULDER WASHERS

J23

PART NUMBER	L	A	B	C	D
NSW0152	3/64 (1.19)	.105 (2.67)	3/64 (1.19)	.084 (2.13)	.061 (1.55)
NSW0155	.060 (1.52)	.125 (3.18)	.030 (0.76)	.080 (2.03)	.055 (1.40)
NSW0156	1/32 (0.79)	.228 (5.79)	1/32 (0.79)	.122 (3.10)	.093 (2.36)
NSW0157	.035 (0.89)	.235 (5.97)	.095 (2.41)	.147 (3.73)	.115 (2.92)
NSW0180	.075 (1.91)	.181 (4.60)	3/64 (1.19)	.120 (3.05)	.045 (1.14)
NSW0182	1/32 (0.79)	.182 (4.75)	1/16 (1.59)	.131 (3.33)	.085 (2.16)
NSW0183	1/32 (0.79)	.182 (4.75)	5/64 (1.98)	.125 (3.18)	.085 (2.16)
NSW0184	1/32 (0.79)	.189 (4.80)	1/16 (1.59)	.119 (3.02)	.095 (2.41)
NSW0187	1/64 (0.41)	.187 (4.75)	1/32 (0.79)	.119 (3.02)	.089 (2.26)
NSW0188	.030 (0.76)	.187 (4.75)	.030 (0.76)	.131 (3.33)	.090 (2.29)
NSW0190	9/32 (7.14)	.197 (5.00)	1/32 (0.79)	.118 (3.00)	.075 (1.91)
NSW0191	.100 (2.54)	.350 (8.89)	.090 (2.29)	.200 (5.08)	.140 (3.56)
NSW0195	1/16 (1.59)	.195 (4.95)	1/32 (0.79)	.120 (3.05)	.093 (2.36)
NSW0196	3/64 (1.19)	.240 (6.09)	1/16 (1.59)	.135 (3.42)	.114 (2.89)
NSW0197	1/32 (0.79)	.216 (5.48)	3/64 (1.19)	.135 (3.42)	.115 (2.92)
NSW0198	1/32 (0.79)	.200 (5.08)	1/32 (0.79)	.140 (3.56)	.115 (2.92)
NSW0199	5/64 (1.98)	.187 (4.75)	1/32 (0.79)	.119 (3.02)	.063 (1.60)
NSW0200	1/32 (0.79)	.200 (5.08)	5/64 (1.98)	.135 (3.43)	.116 (2.95)
NSW0201	3/16 (4.76)	.187 (4.75)	1/32 (0.79)	.119 (3.02)	.063 (1.60)
NSW0202	5/64 (1.98)	.205 (5.21)	1/32 (0.79)	.125 (3.18)	.093 (2.36)
NSW0203	7/64 (2.77)	.205 (5.21)	1/32 (0.79)	.125 (3.18)	.093 (2.36)
NSW0204	3/16 (4.76)	.205 (5.21)	1/32 (0.79)	.125 (3.18)	.093 (2.36)
NSW0205	3/64 (1.19)	.202 (5.13)	1/64 (0.41)	.145 (3.68)	.120 (3.05)
NSW0206	1/16 (1.59)	.224 (5.69)	1/32 (0.79)	.154 (3.91)	.120 (3.05)
NSW0207	5/32 (3.97)	.235 (5.97)	3/64 (1.19)	.135 (3.43)	.110 (2.79)
NSW0208	1/16 (1.59)	.200 (5.08)	1/32 (0.79)	.120 (3.05)	.093 (2.36)
NSW0209	3/64 (1.19)	.210 (5.33)	1/64 (0.41)	.145 (3.68)	.120 (3.05)
NSW0210	3/64 (1.19)	.230 (5.84)	1/64 (0.41)	.142 (3.61)	.122 (3.10)
NSW0211	1/32 (0.79)	.218 (5.54)	3/64 (1.19)	.135 (3.43)	.115 (2.92)
NSW0212	7/16 (11.11)	.224 (5.69)	1/32 (0.79)	.154 (3.91)	.120 (3.05)
NSW0213	3/64 (1.19)	.200 (5.08)	1/32 (0.79)	.138 (3.51)	.109 (2.77)
NSW0214	1/32 (0.79)	.235 (5.97)	3/64 (1.19)	.137 (3.48)	.115 (2.92)
NSW0215	7/32 (5.55)	.250 (6.35)	11/64 (4.37)	.150 (3.81)	.115 (2.92)
NSW0216	1/32 (0.79)	.240 (6.10)	1/32 (0.79)	.150 (3.81)	.098 (2.49)
NSW0217	1/32 (0.79)	.228 (5.79)	3/64 (1.19)	.138 (3.51)	.100 (2.54)
NSW0218	1/8 (3.18)	.242 (6.15)	3/64 (1.19)	.140 (3.56)	.115 (2.92)
NSW0219	1/8 (3.18)	.290 (7.37)	1/64 (0.41)	.250 (6.35)	.193 (4.90)
NSW0220	3/64 (1.19)	.234 (5.94)	3/64 (1.19)	.147 (3.73)	.115 (2.92)
NSW0221	3/32 (2.38)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSW0222	1/8 (3.18)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSW0223	1/32 (0.79)	.250 (6.35)	1/16 (1.59)	.187 (4.75)	.140 (3.56)
NSW0224	3/64 (1.19)	.260 (6.60)	1/16 (1.59)	.190 (4.83)	.140 (3.56)
NSW0225	43/64 (17.02)	.250 (6.35)	3/64 (1.19)	.187 (4.75)	.095 (2.41)
NSW0226	1/16 (1.59)	.250 (6.35)	1/32 (0.79)	.143 (3.63)	.118 (3.00)
NSW0227	1/32 (0.79)	.257 (6.53)	1/16 (1.59)	.187 (4.75)	.141 (3.58)
NSW0228	1/64 (0.41)	.260 (6.60)	1/64 (0.41)	.154 (3.91)	.095 (2.41)
NSW0229	1/8 (3.18)	.250 (6.35)	3/64 (1.19)	.139 (3.53)	.118 (3.00)

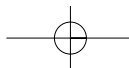


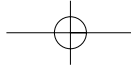
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Plastic Hardware

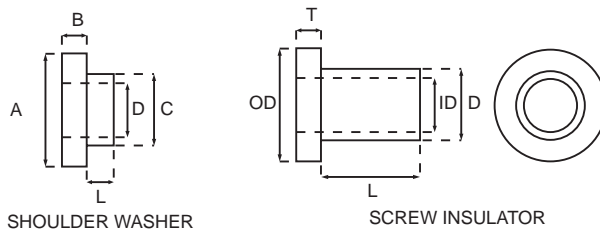
NYLON SHOULDER WASHERS

J24

NYLON SHOULDER WASHERS

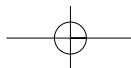
PART NUMBER	L	A	B	C	D
NSW0230	5/32 (3.97)	.265 (6.73)	1/32 (0.79)	.205 (5.21)	.142 (3.61)
NSW0232	5/64 (1.98)	.253 (6.42)	3/64 (1.19)	.136 (3.45)	.120 (3.05)
NSW0233	1/32 (0.79)	.203 (5.16)	3/64 (1.19)	.140 (3.56)	.115 (2.92)
NSW0234	.050 (1.40)	.239 (6.07)	.020 (0.51)	.139 (3.53)	.116 (2.95)
NSW0235	.033 (0.84)	.210 (5.33)	.042 (1.07)	.143 (3.63)	.116 (2.95)
NSW0236	.020 (0.51)	.250 (6.35)	.030 (0.76)	.150 (3.81)	.116 (2.95)
NSW0237	.040 (1.02)	.235 (5.97)	.047 (1.19)	.147 (3.73)	.115 (2.92)
NSW0238	.030 (0.76)	.230 (5.84)	.040 (1.02)	.150 (3.81)	.125 (3.18)
NSW0239	.090 (2.29)	.224 (5.69)	.028 (0.71)	.154 (3.91)	.120 (3.05)
NSW0240	.100 (2.54)	.230 (5.84)	.025 (0.64)	.190 (4.83)	.150 (3.81)
NSW0241	.155 (3.94)	.224 (5.69)	.028 (0.71)	.154 (3.91)	.120 (3.05)
NSW0242	3/32 (2.38)	.635 (16.13)	9/64 (3.57)	.425 (10.80)	.201 (5.11)
NSW0243	.063 (1.60)	.1564 (5.94)	.025 (0.64)	.164 (4.17)	.130 (3.30)
NSW0244	.031 (0.79)	.234 (5.94)	.025 (0.64)	.145 (3.68)	.115 (2.92)
NSW0250	.156 (3.96)	.265 (6.73)	.118 (3.00)	.205 (5.21)	.142 (3.61)
NSW0255	1/8 (2.94)	.500 (12.70)	1/8 (2.94)	.375 (9.53)	.285 (7.14)
NSW0290	1/32 (0.79)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSW0291	.375 (9.53)	.290 (7.37)	.234 (5.94)	.170 (4.32)	.140 (3.56)
NSW0296	.375 (9.53)	.499 (12.67)	.125 (3.18)	.295 (7.49)	.187 (4.75)
NSW0300	.090 (2.29)	.250 (6.35)	.050 (1.27)	.150 (3.81)	.120 (3.05)
NSW0305	.120 (3.05)	.250 (6.35)	.050 (1.27)	.135 (3.43)	.118 (3.00)
NSW0310	.250 (6.35)	.250 (6.35)	.047 (1.19)	.156 (3.96)	.125 (3.18)
NSW0395	.025 (0.64)	.250 (6.35)	.031 (0.79)	.122 (3.10)	.093 (2.36)
NSW0396	.040 (1.02)	.250 (6.35)	.047 (1.19)	.140 (3.56)	.102 (2.59)
NSW0400	3/32 (2.38)	.235 (5.97)	3/64 (1.19)	.140 (3.56)	.115 (2.92)
NSW0401	1/4 (6.35)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSW0402	3/64 (1.19)	.240 (6.09)	1/16 (1.59)	.138 (3.50)	.114 (2.89)
NSW0403	1/16 (1.59)	.312 (7.93)	1/16 (1.59)	.149 (3.79)	.115 (2.92)
NSW0404	3/32 (2.38)	.312 (7.93)	1/16 (1.59)	.149 (3.79)	.115 (2.92)
NSW0405	1/64 (0.41)	.250 (6.35)	3/64 (1.19)	.124 (3.15)	.111 (2.82)
NSW0406	1/32 (0.79)	.252 (6.40)	1/32 (0.79)	.186 (4.72)	.140 (3.56)
NSW0407	1/32 (0.79)	.250 (6.35)	1/32 (0.79)	.186 (4.72)	.139 (3.53)
NSW0408	.250 (6.35)	.235 (5.97)	.032 (0.81)	.120 (3.05)	.090 (2.29)
NSW0409	1/8 (3.18)	.250 (6.35)	1/32 (0.79)	.195 (4.95)	.130 (3.30)
NSW0410	1/32 (0.79)	.250 (6.35)	3/64 (1.19)	.144 (2.90)	.100 (2.54)
NSW0411	1/16 (1.59)	.250 (6.35)	1/32 (0.79)	.143 (3.63)	.115 (2.92)
NSW0412	1/16 (1.59)	.250 (6.35)	1/32 (0.79)	.169 (4.29)	.102 (2.59)
NSW0413	3/32 (2.38)	.250 (6.35)	3/64 (1.19)	.114 (2.90)	.100 (2.54)
NSW0414	1/8 (3.18)	.281 (7.14)	3/32 (2.38)	.158 (4.01)	.093 (2.36)
NSW0415	3/16 (4.76)	.293 (7.44)	3/64 (1.19)	.218 (5.53)	.138 (3.51)
NSW0416	11/64 (4.37)	.250 (6.35)	3/64 (1.19)	.186 (4.72)	.126 (3.20)
NSW0417	1/64 (0.41)	.310 (7.87)	1/16 (1.59)	.183 (4.65)	.139 (3.53)
NSW0418	1/64 (0.41)	.312 (7.93)	1/16 (1.59)	.187 (4.75)	.115 (2.92)
NSW0419	1/32 (0.79)	.312 (7.93)	1/32 (0.79)	.185 (4.70)	.140 (3.56)
NSW0420	1/16 (1.59)	.312 (7.93)	1/16 (1.59)	.170 (4.32)	.120 (3.05)
NSW0421	3/64 (1.19)	.312 (7.93)	1/16 (1.59)	.170 (4.32)	.127 (3.23)
NSW0422	1/8 (3.18)	.312 (7.93)	3/64 (1.19)	.234 (5.94)	.144 (3.66)

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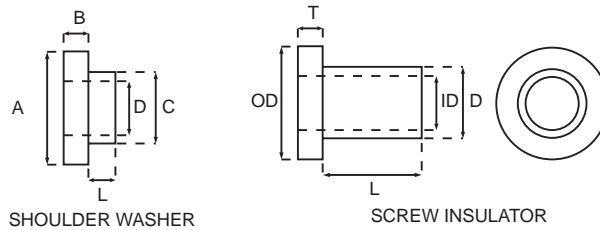
NYLON SHOULDER WASHERS

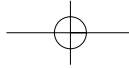
J25

NYLON SHOULDER WASHERS

PART NUMBER	L	A	B	C	D
NSW0423	1/64 (0.41)	.250 (6.35)	1/32 (0.79)	.150 (3.81)	.116 (2.95)
NSW0424	7/32 (5.55)	.295 (7.49)	1/32 (0.79)	.234 (5.94)	.140 (3.56)
NSW0425	1/32 (0.79)	.312 (7.93)	1/16 (1.59)	.250 (6.35)	.196 (4.98)
NSW0426	11/64 (4.37)	.250 (6.35)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSW0427	3/64 (1.19)	.250 (6.35)	1/32 (0.79)	.185 (4.70)	.116 (2.95)
NSW0428	7/64 (2.77)	.242 (6.15)	3/64 (1.19)	.140 (3.56)	.115 (2.92)
NSW0429	9/64 (3.58)	.250 (6.35)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSW0430	3/16 (4.76)	.312 (7.93)	1/16 (1.59)	.250 (6.35)	.156 (3.96)
NSW0431	3/32 (2.38)	.240 (6.10)	1/32 (0.79)	.185 (4.70)	.125 (3.18)
NSW0432	3/64 (1.19)	.250 (6.35)	3/64 (1.19)	.143 (3.63)	.113 (2.87)
NSW0433	7/64 (2.77)	.250 (6.35)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSW0434	1/16 (1.59)	.312 (7.93)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSW0435	3/64 (1.19)	.250 (6.35)	1/16 (1.59)	.185 (4.70)	.116 (2.95)
NSW0436	1/32 (0.79)	.240 (6.10)	3/64 (1.19)	.139 (3.53)	.115 (2.92)
NSW0437	1/32 (0.79)	.265 (6.73)	1/32 (0.79)	.157 (3.99)	.126 (3.20)
NSW0438	1/32 (0.79)	.312 (7.93)	1/16 (1.59)	.187 (4.75)	.141 (3.58)
NSW0439	1/16 (1.59)	.250 (6.35)	3/64 (1.19)	.138 (3.50)	.120 (3.05)
NSW0440	5/16 (7.94)	.312 (7.93)	1/32 (0.79)	.154 (3.91)	.130 (3.30)
NSW0441	3/16 (4.76)	.312 (7.93)	1/32 (0.79)	.234 (5.94)	.184 (4.67)
NSW0442	7/32 (5.54)	.296 (7.52)	1/32 (0.79)	.235 (5.97)	.135 (3.43)
NSW0443	.156 (3.96)	.252 (6.40)	.047 (1.19)	.140 (3.56)	.115 (2.92)
NSW0444	1/16 (1.59)	.300 (7.62)	3/64 (1.19)	.194 (4.93)	.160 (4.06)
NSW0445	1/32 (0.79)	.313 (7.95)	1/32 (0.79)	.175 (4.45)	.143 (3.63)
NSW0446	1/64 (0.41)	.312 (7.93)	3/64 (1.19)	.160 (4.06)	.097 (2.46)
NSW0448	3/32 (2.38)	.312 (7.93)	3/64 (1.19)	.187 (4.75)	.128 (3.25)
NSW0449	1/32 (0.79)	.313 (7.95)	1/32 (0.79)	.219 (5.56)	.124 (3.15)
NSW0450	1/16 (1.59)	.312 (7.93)	3/64 (1.19)	.234 (5.94)	.144 (3.66)
NSW0451	1/32 (0.79)	.315 (8.00)	.030 (0.76)	.150 (3.81)	.115 (2.92)
NSW0452	1/32 (0.79)	.312 (7.93)	3/64 (1.19)	.203 (5.16)	.120 (3.05)
NSW0453	.027 (0.69)	.312 (7.93)	.035 (0.89)	.187 (4.75)	.140 (3.56)
NSW0454	1/32 (0.79)	.313 (7.95)	1/32 (0.79)	.219 (5.56)	.136 (3.45)
NSW0455	3/64 (1.19)	.312 (7.93)	1/32 (0.79)	.185 (4.70)	.126 (3.20)
NSW0456	3/64 (1.19)	.250 (6.35)	3/64 (1.19)	.156 (3.96)	.115 (2.92)
NSW0457	.031 (0.79)	.250 (6.35)	.031 (0.79)	.187 (4.75)	.120 (3.05)
NSW0459	15/64 (5.94)	.291 (7.39)	1/16 (1.59)	.154 (3.91)	.120 (3.05)
NSW0460	.125 (3.18)	.290 (7.37)	.047 (1.19)	.170 (4.32)	.140 (3.56)
NSW0462	.031 (0.79)	.312 (7.93)	.063 (1.60)	.187 (4.75)	.123 (3.12)
NSW0463	.050 (1.27)	.312 (7.93)	.046 (1.17)	.229 (5.82)	.163 (4.13)
NSW0464	19/64 (7.52)	.250 (6.35)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSW0465	.060 (1.52)	.312 (7.93)	.030 (0.76)	.189 (4.80)	.144 (3.66)
NSW0467	.062 (1.57)	.312 (7.93)	.063 (1.60)	.126 (3.20)	.091 (0.23)
NSW0468	.250 (6.35)	.312 (7.93)	.060 (1.52)	.210 (5.33)	.142 (3.61)
NSW0470	.165 (0.79)	.290 (7.37)	.047 (1.19)	.200 (5.08)	.145 (3.68)
NSW0475	.100 (2.54)	.312 (7.93)	.045 (1.14)	.150 (3.81)	.114 (2.90)
NSW0601	1/4 (6.35)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSW0602	1/32 (0.79)	.330 (8.38)	1/16 (1.59)	.206 (5.23)	.141 (3.58)
NSW0603	.062 (1.57)	.300 (7.62)	.050 (1.27)	.180 (4.57)	.150 (3.81)

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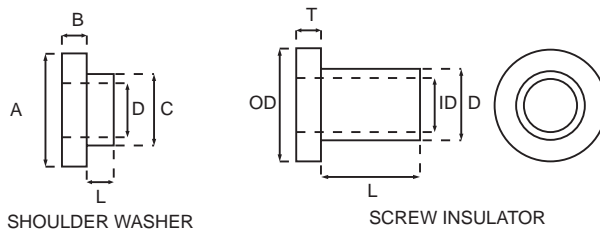
NYLON SHOULDER WASHERS

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NYLON SHOULDER WASHERS

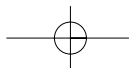
PART NUMBER	L	A	B	C	D
NSW0605	3/64 (1.19)	.328 (8.33)	3/64 (1.19)	.218 (5.54)	.146 (3.71)
NSW0606	3/64 (1.19)	.340 (8.64)	5/64 (1.98)	.250 (6.35)	.140 (3.56)
NSW0607	1/16 (1.59)	.289 (7.34)	1/16 (1.59)	.215 (5.46)	.093 (2.36)
NSW0608	3/64 (1.19)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSW0609	3/64 (1.19)	.312 (7.93)	1/32 (0.79)	.185 (4.70)	.116 (2.95)
NSW0610	1/16 (1.59)	.348 (8.83)	1/32 (0.79)	.290 (7.36)	.256 (6.50)
NSW0612	3/32 (2.38)	.316 (8.03)	3/64 (1.19)	.158 (4.01)	.116 (2.95)
NSW0614	1/32 (0.79)	.324 (8.23)	1/16 (1.59)	.204 (5.18)	.140 (3.56)
NSW0615	.065 (1.65)	.320 (8.13)	.050 (1.27)	.182 (4.62)	.141 (3.58)
NSW0621	3/32 (2.38)	.340 (8.64)	1/16 (1.59)	.220 (5.59)	.175 (4.45)
NSW0628	3/8 (9.53)	.345 (8.76)	1/16 (1.59)	.205 (5.21)	.173 (4.39)
NSW0629	3/64 (1.19)	.345 (8.76)	1/16 (1.59)	.209 (5.30)	.171 (4.34)
NSW0630	13/64 (5.16)	.368 (9.34)	5/64 (1.98)	.146 (3.70)	.115 (2.92)
NSW0632	1/16 (1.59)	.349 (8.87)	3/64 (1.19)	.248 (6.30)	.140 (3.56)
NSW0633	.060 (1.52)	.349 (8.87)	.050 (1.27)	.260 (6.60)	.133 (3.38)
NSW0634	11/64 (4.37)	.350 (8.89)	1/64 (0.41)	.300 (7.62)	.112 (2.84)
NSW0798	.080 (2.03)	.344 (8.74)	.063 (1.60)	.235 (5.97)	.175 (4.45)
NSW0799	3/64 (1.19)	.344 (8.74)	7/64 (2.77)	.189 (4.80)	.141 (3.58)
NSW0800	9/64 (3.58)	.344 (8.74)	1/16 (1.59)	.210 (5.33)	.170 (4.32)
NSW0801	3/8 (9.53)	.344 (8.74)	1/16 (1.59)	.205 (5.21)	.173 (4.39)
NSW0802	1/16 (1.59)	.375 (9.53)	1/32 (0.79)	.195 (4.95)	.171 (4.34)
NSW0803	13/32 (10.32)	.510 (12.95)	1/16 (1.59)	.250 (6.35)	.171 (4.34)
NSW0804	.177 (4.50)	.355 (9.02)	.020 (0.51)	.315 (8.00)	.236 (5.99)
NSW0805	.283 (7.19)	.370 (9.40)	.067 (1.70)	.242 (6.15)	.195 (4.95)
NSW0806	.250 (6.35)	.344 (8.74)	.032 (0.81)	.205 (5.21)	.173 (4.39)
NSW0807	.046 (1.17)	.359 (9.12)	.060 (1.52)	.300 (7.62)	.227 (5.77)
NSW0808	1/8 (3.18)	.375 (9.53)	1/16 (1.59)	.280 (7.11)	.201 (5.10)
NSW0809	5/32 (3.97)	.378 (9.60)	5/64 (1.98)	.194 (4.92)	.116 (2.95)
NSW0810	1/32 (0.79)	.375 (9.53)	1/16 (1.59)	.250 (6.35)	.171 (4.34)
NSW0811	3/64 (1.19)	.375 (9.53)	3/64 (1.19)	.245 (6.22)	.192 (4.88)
NSW0812	3/32 (2.38)	.375 (9.53)	1/32 (0.79)	.260 (6.60)	.220 (5.59)
NSW0813	7/64 (2.77)	.375 (9.53)	3/64 (1.19)	.195 (4.95)	.136 (3.45)
NSW0814	3/64 (1.19)	.375 (9.53)	5/64 (1.98)	.244 (6.20)	.150 (3.81)
NSW0815	3/32 (2.38)	.375 (9.53)	1/32 (0.79)	.185 (4.70)	.140 (3.56)
NSW0816	1/32 (0.79)	.375 (9.53)	1/32 (0.79)	.250 (6.35)	.169 (4.29)
NSW0817	3/64 (1.19)	.375 (9.53)	1/16 (1.59)	.218 (5.54)	.140 (3.56)
NSW0818	1/32 (0.79)	.375 (9.53)	1/16 (1.59)	.246 (6.25)	.167 (4.24)
NSW0819	1/16 (1.59)	.437 (11.10)	1/16 (1.59)	.313 (7.95)	.188 (4.78)
NSW0820	1/32 (0.79)	.375 (9.53)	1/16 (1.59)	.185 (4.70)	.140 (3.56)
NSW0821	1/32 (0.79)	.381 (9.68)	1/16 (1.59)	.308 (7.82)	.196 (4.98)
NSW0822	1/32 (0.79)	.374 (9.50)	1/32 (0.79)	.246 (6.25)	.141 (3.58)
NSW0823	.099 (2.51)	.375 (9.53)	.040 (1.02)	.250 (6.35)	.171 (4.34)
NSW0824	.050 (1.27)	.378 (9.53)	.060 (1.52)	.245 (6.22)	.140 (3.56)
NSW0825	.060 (1.52)	.375 (9.53)	.030 (0.76)	.245 (6.22)	.145 (3.68)
NSW0826	.062 (1.57)	.500 (12.70)	1/16 (1.59)	.308 (7.82)	.196 (4.98)
NSW0827	.046 (1.17)	.375 (9.53)	.040 (1.02)	.250 (6.35)	.171 (4.34)
NSW0828	.125 (3.18)	.380 (9.65)	.065 (1.65)	.254 (6.45)	.196 (4.98)

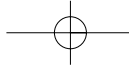
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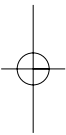
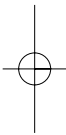


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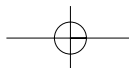
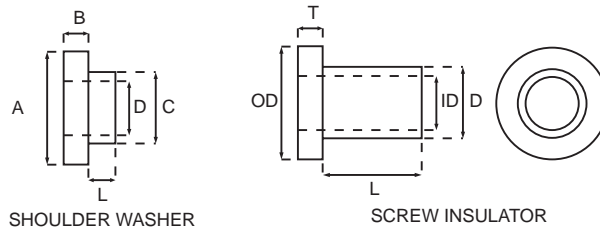
NYLON SHOULDER WASHERS

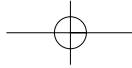
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PART NUMBER	L	A	B	C	D
NSW0829	1/8 (3.18)	.370 (9.40)	.110 (2.79)	.307 (7.80)	.255 (6.48)
NSW0830	.032 (0.81)	.375 (9.53)	.062 (1.57)	.187 (4.75)	.147 (3.73)
NSW0831	.250 (6.35)	.375 (9.53)	.040 (1.02)	.250 (6.35)	.171 (4.34)
NSW0832	.043 (1.09)	.375 (9.53)	.035 (0.76)	.257 (6.53)	.193 (4.90)
NSW0833	.050 (1.27)	.375 (9.53)	.031 (0.79)	.243 (6.17)	.199 (5.05)
NSW0835	.050 (1.27)	.377 (9.58)	.050 (1.27)	.245 (6.22)	.155 (3.94)
NSW0837	.031 (0.79)	.375 (9.53)	.062 (1.57)	.187 (4.75)	.093 (2.36)
NSW0839	.050 (1.27)	.385 (9.78)	.030 (0.76)	.250 (6.35)	.169 (4.29)
NSW0840	13/64 (5.16)	.370 (9.40)	5/64 (1.98)	.145 (3.68)	.115 (2.92)
NSW0842	5/64 (1.98)	.375 (9.53)	7/32 (5.55)	.199 (5.05)	.140 (3.56)
NSW0844	3/64 (1.19)	.381 (9.68)	1/16 (1.59)	.185 (4.70)	.140 (3.56)
NSW0846	1/16 (1.59)	.375 (9.53)	3/32 (2.38)	.250 (6.35)	.140 (3.56)
NSW0847	.213 (5.14)	.375 (9.53)	1/16 (1.59)	.250 (6.35)	.197 (5.00)
NSW0848	1/32 (0.79)	.385 (9.78)	1/16 (1.59)	.240 (6.10)	.145 (3.68)
NSW0850	1/16 (1.59)	.375 (9.53)	3/32 (2.38)	.250 (6.35)	.138 (3.51)
NSW0852	3/32 (2.38)	.375 (9.53)	1/16 (1.59)	.248 (6.30)	.136 (3.45)
NSW0854	3/64 (1.19)	.375 (9.53)	1/16 (1.59)	.240 (6.10)	.194 (4.93)
NSW0855	7/64 (2.77)	.375 (9.53)	1/16 (1.59)	.240 (6.10)	.138 (3.51)
NSW0856	3/32 (2.38)	.375 (9.53)	1/64 (0.41)	.185 (4.70)	.140 (3.56)
NSW0857	5/32 (3.97)	.375 (9.53)	5/64 (1.98)	.193 (4.90)	.116 (2.95)
NSW0858	1/16 (1.59)	.375 (9.53)	1/16 (1.59)	.250 (6.35)	.145 (3.68)
NSW0859	9/64 (3.58)	.375 (9.53)	1/32 (0.79)	.245 (6.22)	.187 (4.75)
NSW0860	13/64 (5.16)	.380 (9.65)	1/16 (1.59)	.220 (5.59)	.148 (3.76)
NSW0861	1/8 (3.18)	.378 (9.60)	1/32 (0.79)	.255 (6.48)	.116 (2.95)
NSW0862	3/16 (4.76)	.390 (9.91)	5/64 (1.98)	.287 (7.29)	.196 (4.98)
NSW0863	5/64 (1.98)	.390 (9.91)	5/64 (1.98)	.313 (7.95)	.203 (5.16)
NSW0864	7/64 (2.77)	.395 (10.03)	5/64 (1.98)	.299 (7.59)	.230 (5.84)
NSW0865	.055 (1.44)	.380 (9.65)	.065 (1.65)	.254 (6.45)	.196 (4.98)
NSW0867	.046 (1.17)	.375 (9.53)	.040 (1.02)	.214 (5.44)	.141 (3.58)
NSW0868	.031 (0.79)	.375 (9.53)	.062 (1.57)	.312 (7.92)	.253 (6.43)
NSW0869	.207 (5.26)	.390 (9.91)	.062 (1.57)	.348 (8.84)	.312 (7.92)
NSW0870	1/8 (3.18)	.433 (10.99)	1/16 (1.59)	.312 (7.92)	.199 (5.05)
NSW0871	.130 (3.30)	.390 (9.91)	.062 (1.57)	.260 (6.60)	.200 (5.08)
NSW0872	.160 (4.06)	.27/64 (10.72)	.050 (1.27)	9/32 (7.15)	.200 (5.08)
NSW0873	.126 (3.20)	.394 (10.01)	.039 (0.99)	.256 (6.50)	.221 (5.61)
NSW0874	.139 (3.53)	.390 (9.91)	.025 (0.63)	.303 (7.70)	.223 (5.66)
NSW0875	.300 (7.62)	.375 (9.53)	.050 (1.27)	.253 (6.43)	.125 (3.18)
NSW0876	.075 (1.91)	.390 (9.91)	.062 (1.57)	.260 (6.60)	.200 (5.08)
NSW0880	1/8 (3.18)	.400 (10.16)	1/8 (3.18)	.275 (6.99)	.140 (3.56)
NSW0882	9/32 (7.14)	.470 (11.93)	5/64 (1.98)	.312 (7.92)	.140 (3.56)
NSW0885	.100 (2.54)	.400 (10.16)	1/8 (3.18)	.275 (6.99)	.140 (3.56)
NSW0887	.187 (4.75)	.408 (10.36)	.062 (1.57)	.240 (6.10)	.197 (5.00)
NSW0888	3/64 (1.19)	.400 (10.16)	3/64 (1.19)	.243 (6.17)	.156 (3.96)
NSW0890	3/64 (1.19)	.415 (10.54)	5/32 (3.97)	.243 (6.17)	.141 (3.58)
NSW0894	1/16 (1.59)	.418 (10.62)	7/64 (2.77)	.243 (6.17)	.141 (3.58)
NSW0896	3/16 (4.76)	.408 (10.36)	1/16 (1.59)	.240 (6.10)	.220 (5.59)
NSW0900	1/32 (0.79)	.428 (10.87)	1/16 (1.59)	.245 (6.22)	.156 (3.96)



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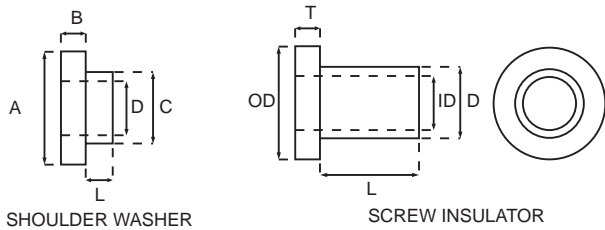
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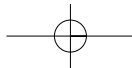
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NSW0901	.093 (2.36)	.437 (11.10)	.040 (1.02)	.375 (9.53)	.194 (4.93)
NSW0902	1/32 (0.79)	.437 (11.10)	1/16 (1.59)	.245 (6.22)	.156 (3.96)
NSW0903	.115 (2.92)	.432 (10.97)	.065 (1.65)	.256 (6.50)	.196 (4.98)
NSW0904	3/8 (9.53)	.437 (11.10)	1/16 (1.59)	.282 (7.16)	.225 (5.72)
NSW0905	1/16 (1.59)	.425 (10.78)	1/16 (1.59)	.310 (7.87)	.250 (6.35)
NSW0907	.026 (0.66)	.438 (11.13)	.094 (2.39)	.307 (7.80)	.253 (6.43)
NSW0908	3/32 (2.38)	.438 (11.13)	1/32 (0.79)	.267 (6.78)	.203 (5.16)
NSW0909	13/32 (10.32)	.493 (12.52)	3/32 (2.38)	.376 (9.55)	.176 (4.47)
NSW0910	.070 (1.78)	.443 (11.25)	.048 (1.22)	.285 (7.24)	.191 (4.85)
NSW0912	9/64 (3.58)	.432 (10.97)	1/32 (0.79)	.303 (7.70)	.196 (4.98)
NSW0914	.043 (1.09)	.440 (11.18)	.094 (2.39)	.312 (7.92)	.193 (4.90)
NSW0915	.138 (3.51)	.413 (10.49)	.315 (8.00)	.244 (6.20)	.217 (5.51)
NSW0916	3/16 (4.76)	.743 (18.87)	1/16 (1.59)	.437 (11.10)	.376 (9.55)
NSW0917	3/64 (1.19)	.428 (10.87)	1/8 (3.18)	.350 (8.89)	.308 (7.82)
NSW0918	3/64 (1.19)	.450 (11.43)	1/64 (0.41)	.310 (7.87)	.230 (5.84)
NSW0919	.060 (1.52)	.460 (11.68)	.030 (0.76)	.370 (9.40)	.260 (6.60)
NSW0920	.138 (3.51)	.413 (10.49)	.118 (3.00)	.244 (6.20)	.217 (5.51)
NSW0921	.236 (5.99)	.480 (12.19)	.079 (2.01)	.315 (8.00)	.240 (6.10)
NSW0925	3/64 (1.19)	.468 (11.89)	1/16 (1.59)	.248 (6.30)	.140 (3.56)
NSW0926	11/16 (17.53)	.498 (12.64)	1/16 (1.59)	.375 (9.53)	.254 (6.45)
NSW0930	7/32 (5.55)	.468 (11.89)	3/64 (1.19)	.375 (9.53)	.325 (8.26)
NSW0935	.187 (4.75)	.495 (12.57)	.065 (1.65)	.312 (7.92)	.200 (5.08)
NSW0940	.157 (3.99)	.483 (12.27)	.059 (1.50)	.315 (8.00)	.240 (6.10)
NSW0950	.157 (3.99)	.472 (11.99)	.181 (4.60)	.315 (8.00)	.205 (5.21)
NSW1001	3/8 (9.53)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSW1002	3/32 (2.38)	.438 (11.13)	1/16 (1.59)	.267 (6.78)	.203 (5.16)
NSW1003	3/16 (4.76)	.745 (18.92)	1/32 (0.79)	.282 (7.16)	.234 (5.94)
NSW1004	9/64 (3.58)	.438 (11.13)	1/32 (0.79)	.250 (6.35)	.135 (3.43)
NSW1005	5/64 (1.98)	.464 (11.79)	1/64 (0.41)	.312 (7.92)	.255 (6.48)
NSW1006	11/64 (4.37)	.425 (10.78)	1/16 (1.59)	.377 (9.58)	.260 (6.60)
NSW1007	3/64 (1.19)	.437 (11.10)	3/64 (1.19)	.281 (7.14)	.201 (5.11)
NSW1008	3/64 (1.19)	.620 (15.75)	3/64 (1.19)	.312 (7.92)	.205 (5.21)
NSW1009	1/16 (1.59)	.740 (18.80)	1/32 (0.79)	.368 (9.53)	.320 (8.13)
NSW1010	3/64 (1.19)	.625 (15.88)	7/64 (2.77)	.375 (9.53)	.250 (6.35)
NSW1011	1/16 (1.59)	.675 (17.14)	3/32 (2.38)	.480 (12.19)	.257 (6.53)
NSW1012	1/8 (3.18)	.697 (17.70)	1/16 (1.59)	.359 (9.12)	.266 (6.76)
NSW1013	3/64 (1.19)	.688 (17.48)	1/32 (0.79)	.543 (13.79)	.508 (12.90)
NSW1014	1/32 (0.79)	.437 (11.10)	1/32 (0.79)	.310 (7.87)	.253 (6.43)
NSW1015	3/64 (1.19)	.500 (12.70)	3/32 (2.38)	.275 (6.99)	.145 (3.68)
NSW1016	7/16 (11.11)	.500 (12.70)	1/8 (3.18)	.250 (6.35)	.167 (4.24)
NSW1017	1/16 (1.59)	.562 (14.27)	3/32 (2.38)	.375 (9.53)	.260 (6.60)
NSW1018	3/16 (4.76)	.625 (15.88)	1/16 (1.59)	.322 (8.18)	.255 (6.48)
NSW1019	3/64 (1.19)	.615 (15.62)	1/32 (0.79)	.310 (7.87)	.253 (6.43)
NSW1020	1/16 (1.59)	.640 (16.26)	1/16 (1.59)	.380 (9.65)	.195 (4.95)
NSW1021	3/64 (1.19)	.630 (16.00)	1/32 (0.79)	.248 (6.30)	.171 (4.34)
NSW1022	3/64 (1.19)	.625 (15.88)	1/16 (1.59)	.375 (9.53)	.190 (4.83)
NSW1023	3/64 (1.19)	.555 (14.10)	5/64 (1.98)	.300 (7.62)	.260 (6.60)

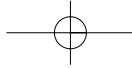
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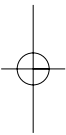
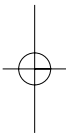


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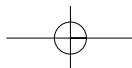
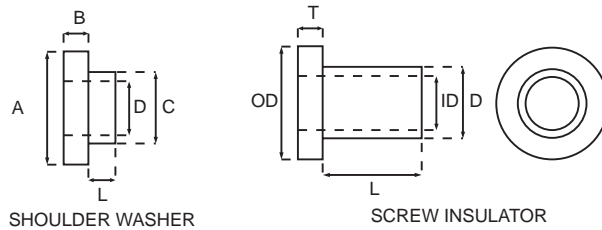
NYLON SHOULDER WASHERS

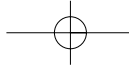
J29

PART NUMBER	L	A	B	C	D
NSW1025	7/16 (11.11)	.562 (14.28)	1/16 (1.59)	.375 (9.53)	.255 (6.48)
NSW1026	1/32 (0.79)	.588 (14.93)	1/32 (0.79)	.253 (6.43)	.198 (5.02)
NSW1027	.500 (1.27)	.500 (12.70)	1/16 (1.59)	.365 (9.27)	.312 (7.92)
NSW1028	.249 (6.32)	.500 (12.70)	.062 (1.57)	.250 (6.35)	.189 (4.80)
NSW1030	3/32 (2.38)	.490 (12.45)	1/16 (1.59)	.281 (7.14)	.200 (5.08)
NSW1031	.050 (1.27)	.500 (12.70)	.062 (1.57)	.248 (6.30)	.194 (4.93)
NSW1032	1/32 (0.79)	.500 (12.70)	3/32 (2.38)	.250 (6.35)	.156 (3.96)
NSW1033	5/16 (7.94)	.500 (12.70)	1/16 (1.59)	.312 (7.92)	.200 (5.08)
NSW1034	1/32 (0.79)	.500 (12.70)	1/32 (0.79)	.312 (7.92)	.252 (6.40)
NSW1035	1/32 (0.79)	.500 (12.70)	1/16 (1.59)	.230 (5.84)	.147 (3.73)
NSW1036	1/64 (0.41)	.500 (12.70)	5/64 (1.98)	.250 (6.35)	.165 (4.19)
NSW1037	.047 (1.19)	.500 (12.70)	.125 (3.17)	.281 (7.14)	.219 (5.56)
NSW1040	3/32 (2.38)	.505 (12.83)	1/16 (1.59)	.343 (8.71)	.257 (6.53)
NSW1041	.335 (8.51)	.495 (12.57)	.050 (1.27)	.346 (8.79)	.260 (6.60)
NSW1045	3/16 (4.76)	.498 (12.65)	1/4 (6.35)	.310 (7.87)	.195 (4.95)
NSW1048	7/16 (11.11)	.500 (12.70)	1/16 (1.59)	.375 (9.53)	.250 (6.35)
NSW1050	5/32 (3.97)	.490 (12.45)	1/16 (1.59)	.250 (6.35)	.190 (4.83)
NSW1051	3/64 (1.19)	.441 (11.20)	1/16 (1.59)	.248 (6.30)	.194 (4.93)
NSW1052	5/32 (3.97)	.488 (12.39)	1/8 (3.18)	.250 (6.35)	.190 (4.83)
NSW1053	.170 (4.32)	.500 (12.70)	.125 (3.17)	.375 (9.52)	.257 (6.53)
NSW1054	9/64 (3.58)	.500 (12.70)	1/16 (1.59)	.345 (8.76)	.285 (7.34)
NSW1055	1/32 (0.79)	.495 (12.57)	1/32 (0.79)	.312 (7.92)	.260 (6.60)
NSW1057	3/32 (2.38)	.500 (12.70)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSW1058	1/32 (0.79)	.490 (12.45)	1/32 (0.79)	.310 (7.87)	.193 (4.90)
NSW1059	.060 (1.52)	.500 (12.70)	.030 (0.76)	.365 (9.27)	.260 (6.60)
NSW1060	5/64 (1.98)	.492 (12.50)	1/32 (0.79)	.318 (8.08)	.265 (6.73)
NSW1061	5/32 (3.97)	.488 (12.39)	1/8 (3.18)	.250 (6.35)	.215 (5.46)
NSW1065	3/16 (4.76)	.513 (13.03)	1/16 (1.59)	.312 (7.92)	.175 (4.45)
NSW1070	5/64 (1.98)	.495 (12.57)	1/32 (0.79)	.318 (8.08)	.193 (4.90)
NSW1071	.253 (6.43)	.502 (12.75)	.187 (4.75)	.374 (9.50)	.318 (8.08)
NSW1075	1/4 (6.35)	.513 (13.03)	1/16 (1.59)	.370 (9.40)	.260 (6.60)
NSW1080	1/64 (0.41)	.500 (12.70)	1/32 (0.79)	.318 (8.08)	.141 (3.58)
NSW1082	3/64 (1.19)	.500 (12.70)	1/32 (0.79)	.318 (8.08)	.193 (4.90)
NSW1084	3/64 (1.19)	.500 (12.70)	1/32 (0.79)	.318 (8.08)	.141 (3.58)
NSW1086	1/16 (1.59)	.500 (12.70)	1/16 (1.59)	.330 (8.38)	.150 (3.81)
NSW1088	.109 (2.77)	.500 (12.70)	1/16 (1.59)	.240 (6.10)	.138 (3.51)
NSW1090	3/64 (1.19)	.518 (13.16)	1/32 (0.79)	.305 (7.75)	.080 (2.03)
NSW1092	.075 (1.91)	.500 (12.70)	.175 (4.45)	.300 (7.62)	.195 (4.95)
NSW1095	1/8 (3.18)	.502 (12.75)	1/32 (0.79)	.399 (10.13)	.349 (8.86)
NSW1098	9/64 (3.58)	.515 (13.08)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSW1101	3/32 (2.38)	.500 (12.70)	1/32 (0.79)	.282 (7.16)	.234 (5.94)
NSW1115	.500 (12.70)	.525 (15.88)	.063 (1.60)	.370 (9.40)	.267 (6.78)
NSW1145	.030 (0.76)	.562 (14.28)	.030 (0.76)	.400 (10.16)	.318 (8.08)



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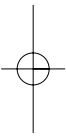
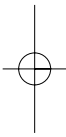
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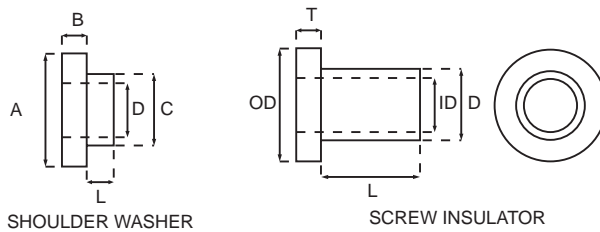
J30

NYLON SHOULDER WASHERS

PART NUMBER	L	A	B	C	D
NSW1150	3/64 (1.19)	.562 (14.28)	3/64 (1.19)	.300 (7.62)	.260 (6.60)
NSW1155	3/64 (1.19)	.562 (14.28)	.024 (0.61)	.370 (9.40)	.335 (8.51)
NSW1159	9/16 (14.29)	.550 (13.97)	1/16 (1.59)	.375 (9.53)	.255 (6.48)
NSW1160	1/16 (1.59)	.562 (14.28)	7/64 (2.77)	.365 (9.27)	.215 (5.46)
NSW1162	27/64 (10.72)	.550 (13.97)	1/16 (1.59)	.375 (9.53)	.255 (6.48)
NSW1163	15/32 (11.91)	.550 (13.97)	1/16 (1.59)	.380 (9.65)	.247 (6.27)
NSW1164	1/32 (0.79)	.562 (14.28)	1/8 (3.18)	.312 (7.93)	.169 (4.29)
NSW1165	1/4 (6.35)	.551 (13.99)	1/16 (1.59)	.380 (9.65)	.248 (6.30)
NSW1170	3/8 (9.53)	.570 (14.48)	1/16 (1.59)	.470 (11.94)	.385 (9.78)
NSW1175	.783 (19.89)	.570 (14.48)	.039 (0.99)	.491 (12.47)	.413 (10.49)
NSW1176	.335 (8.51)	.545 (13.84)	.075 (1.91)	.316 (8.03)	.166 (4.22)
NSW1180	3/64 (1.19)	.578 (14.68)	1/16 (1.59)	.185 (4.70)	.140 (3.56)
NSW1200	3/64 (1.19)	.615 (15.62)	3/64 (1.19)	.315 (8.00)	.208 (5.28)
NSW1201	1/8 (3.18)	.620 (15.75)	3/8 (9.53)	.360 (9.14)	.320 (8.13)
NSW1204	.500 (12.70)	.600 (15.24)	.025 (0.64)	.485 (12.32)	.324 (8.23)
NSW1205	1/32 (0.79)	.620 (15.75)	3/64 (1.19)	.434 (11.02)	.383 (9.73)
NSW1210	1/32 (0.79)	.625 (15.88)	1/16 (1.59)	.405 (10.29)	.378 (9.60)
NSW1211	.139 (3.53)	.625 (15.88)	.066 (1.68)	.405 (10.29)	.320 (8.13)
NSW1215	.062 (1.57)	.625 (15.88)	1/32 (0.79)	.310 (7.87)	.195 (4.95)
NSW1217	.030 (0.76)	.625 (15.88)	.030 (0.76)	.447 (12.12)	.378 (9.60)
NSW1219	3/64 (1.19)	.625 (15.88)	1/16 (1.59)	.310 (7.87)	.172 (4.37)
NSW1220	3/4 (19.05)	.620 (15.75)	1/8 (3.18)	.400 (10.60)	.260 (6.60)
NSW1221	1/8 (3.18)	.630 (16.00)	1/16 (1.59)	.327 (8.31)	.260 (6.60)
NSW1222	1/32 (0.79)	.625 (15.88)	1/32 (0.79)	.448 (11.37)	.378 (9.60)
NSW1225	.027 (0.69)	.625 (15.88)	.062 (1.57)	.248 (6.30)	.120 (3.05)
NSW1227	.210 (5.33)	.625 (15.88)	.058 (1.47)	.379 (9.63)	.263 (6.68)
NSW1228	.025 (0.64)	.625 (15.88)	.060 (1.52)	.219 (5.56)	.140 (3.56)
NSW1230	3/64 (1.19)	.550 (13.97)	5/64 (1.98)	.305 (7.75)	.260 (6.60)
NSW1232	.500 (12.70)	.625 (15.88)	1/16 (1.59)	.370 (9.40)	.316 (8.03)
NSW1233	.090 (2.29)	.625 (15.88)	.062 (1.57)	.311 (7.90)	.253 (6.43)
NSW1235	.150 (3.81)	.620 (15.75)	.060 (1.52)	.502 (12.75)	.316 (8.03)
NSW1240	3/16 (4.76)	.630 (16.00)	1/16 (1.59)	.375 (9.53)	.254 (6.45)
NSW2499	3/8 (9.53)	.513 (13.03)	1/16 (1.59)	.312 (7.93)	.191 (4.85)
NSW2501	3/8 (9.53)	.513 (13.03)	1/16 (1.59)	.312 (7.93)	.261 (6.63)
NSW2502	1/8 (3.18)	.467 (11.86)	3/64 (1.19)	.312 (7.93)	.255 (6.48)
NSW2503	1/32 (0.79)	.625 (15.88)	1/16 (1.59)	.375 (9.53)	.295 (7.49)
NSW2504	1/8 (3.18)	.687 (17.45)	1/8 (3.18)	.437 (11.10)	.328 (8.33)
NSW2505	1/32 (0.79)	.500 (12.70)	1/16 (1.59)	.312 (7.93)	.252 (6.40)
NSW2506	5/16 (7.94)	.625 (15.88)	1/16 (1.59)	.500 (12.70)	.380 (9.65)
NSW2507	1/8 (3.18)	.600 (15.24)	1/8 (3.18)	.370 (7.93)	.250 (6.35)
NSW2508	3/16 (4.76)	.674 (17.12)	3/32 (2.38)	.500 (12.70)	.290 (7.36)
NSW2509	1-7/64 (28.17)	.635 (16.13)	9/64 (3.58)	.425 (10.80)	.201 (5.11)
NSW2510	3/8 (9.53)	.687 (17.45)	3/8 (9.53)	.359 (9.12)	.263 (6.68)

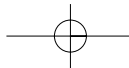


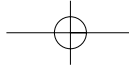
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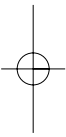
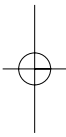


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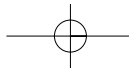
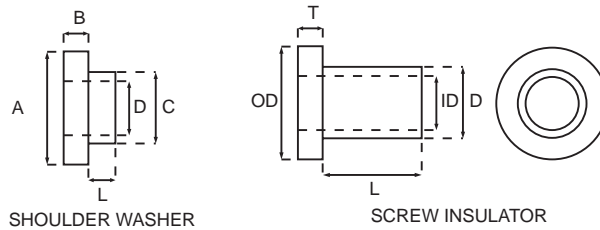
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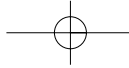
J31

PART NUMBER	L	A	B	C	D
NSW2511	5/16 (7.94)	.625 (15.88)	1/16 (1.59)	.500 (12.70)	.395 (10.03)
NSW2512	.334 (8.48)	.687 (17.45)	.046 (1.17)	.348 (8.84)	.263 (6.68)
NSW2513	1/8 (3.18)	.703 (17.86)	1/16 (1.59)	.437 (11.10)	.335 (8.51)
NSW2515	.420 (10.67)	.710 (18.03)	.075 (1.90)	.470 (11.94)	.420 (10.67)
NSW2520	5/32 (3.97)	.725 (18.41)	5/32 (3.97)	.445 (11.30)	.375 (9.53)
NSW2521	5/32 (3.97)	.720 (18.29)	1/16 (1.59)	.485 (12.32)	.270 (6.86)
NSW2525	11/32 (3.43)	.730 (18.54)	1/4 (6.35)	.375 (9.53)	.257 (6.52)
NSW2528	3/16 (4.76)	.743 (18.87)	1/16 (1.59)	.443 (11.25)	.375 (9.53)
NSW2531	5/16 (7.94)	.743 (18.87)	5/64 (1.98)	.502 (12.75)	.383 (9.72)
NSW2532	.155 (3.94)	.745 (18.92)	.100 (2.54)	.545 (13.84)	.391 (9.93)
NSW2533	.375 (9.52)	.750 (19.05)	.375 (9.52)	.594 (15.09)	.380 (9.65)
NSW2534	.187 (4.75)	.745 (18.92)	.031 (0.79)	.282 (7.16)	.234 (5.94)
NSW2539	11/32 (3.43)	.740 (18.80)	3/32 (2.38)	.375 (9.53)	.266 (6.76)
NSW2540	1/8 (3.18)	.740 (18.80)	3/32 (2.38)	.371 (9.42)	.266 (6.76)
NSW2541	5/64 (1.98)	.750 (19.05)	3/32 (2.38)	.380 (9.65)	.266 (6.76)
NSW2542	3/64 (1.19)	.750 (19.05)	3/16 (4.76)	.500 (12.70)	.430 (10.92)
NSW2543	.770 (19.56)	.750 (19.05)	.095 (2.41)	.490 (12.45)	.190 (4.83)
NSW2544	1.00 (25.40)	.750 (19.05)	.095 (2.41)	.375 (9.53)	.265 (6.73)
NSW2545	.100 (2.54)	.750 (19.05)	.086 (2.18)	.500 (12.70)	.250 (6.35)
NSW2550	1/16 (1.59)	.734 (18.64)	1/8 (3.18)	.488 (12.40)	.250 (6.35)
NSW2551	3/64 (1.19)	.753 (19.12)	5/64 (1.98)	.409 (10.38)	.258 (6.55)
NSW2552	7/64 (2.77)	.743 (18.87)	3/32 (2.38)	.500 (12.70)	.375 (9.53)
NSW2553	5/16 (7.94)	.750 (19.05)	5/64 (1.98)	.500 (12.70)	.370 (9.39)
NSW2554	3/64 (1.19)	.735 (18.67)	3/16 (4.76)	.490 (12.45)	.435 (11.05)
NSW2555	.098 (2.49)	.747 (18.87)	.079 (2.01)	.482 (12.24)	.358 (9.09)
NSW2556	3/16 (4.76)	.750 (19.05)	1/16 (1.59)	.500 (12.70)	.375 (9.53)
NSW2557	23/64 (10.00)	.748 (18.99)	1/8 (3.18)	.504 (12.80)	.384 (9.75)
NSW2558	1/8 (3.18)	.750 (19.05)	1/16 (1.59)	.500 (12.70)	.375 (9.53)
NSW2560	3/64 (1.19)	.750 (19.05)	1/32 (0.79)	.371 (9.42)	.253 (6.43)
NSW2561	27/64 (10.72)	.750 (19.05)	11/64 (4.37)	.434 (11.02)	.312 (7.93)
NSW2562	1/4 (3.38)	.755 (19.17)	5/64 (1.98)	.505 (12.83)	.378 (9.60)
NSW2563	3/32 (1.19)	.750 (19.05)	1/8 (3.18)	.375 (9.53)	.265 (6.73)
NSW2564	1/4 (3.38)	.750 (19.05)	1/16 (1.59)	.250 (6.35)	.150 (3.81)
NSW2566	15/32 (11.90)	.740 (18.80)	5/32 (3.97)	.375 (9.53)	.250 (6.35)
NSW2568	3/64 (1.19)	.750 (19.05)	1/32 (0.79)	.341 (8.66)	.253 (6.43)
NSW2570	11/16 (17.46)	.740 (18.80)	9/64 (3.58)	.385 (9.78)	.260 (6.60)
NSW2571	.320 (8.13)	.750 (19.05)	.030 (0.76)	.580 (14.73)	.517 (13.13)
NSW2575	51/64 (20.24)	.750 (19.05)	3/32 (2.38)	.315 (8.01)	.190 (4.83)
NSW2576	1/32 (0.76)	.750 (19.05)	1/32 (0.79)	.500 (12.70)	.219 (5.56)
NSW2578	3/16 (4.76)	.750 (19.05)	1/16 (1.59)	.625 (15.88)	.510 (12.95)
NSW2580	5/16 (7.94)	.745 (18.92)	1/32 (0.79)	.560 (14.22)	.500 (12.70)
NSW2585	1/4 (3.38)	.740 (18.80)	.500 (12.70)	.605 (15.37)	.380 (9.65)
NSW2586	1/4 (3.38)	.750 (19.05)	1/8 (3.18)	.500 (12.70)	.281 (7.14)



Plastic Hardware





Plastic Hardware

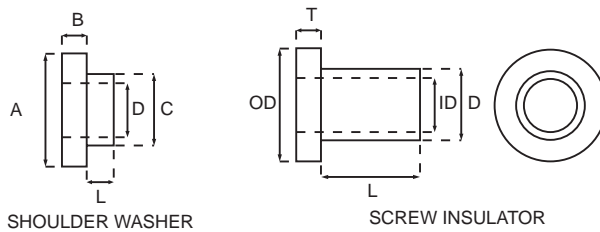
NYLON SHOULDER WASHERS

J32

NYLON SHOULDER WASHERS

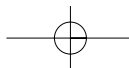
PART NUMBER	L	A	B	C	D
NSW2590	.018 (0.46)	.745 (18.92)	.085 (2.16)	.305 (7.75)	.200 (5.08)
NSW3001	1/8 (3.18)	.693 (17.60)	1/16 (1.59)	.437 (11.10)	.328 (8.33)
NSW3002	3/64 (1.19)	.750 (19.05)	3/64 (1.19)	.375 (9.53)	.323 (8.20)
NSW3003	7/32 (5.55)	.750 (19.05)	3/32 (2.38)	.380 (9.65)	.266 (6.76)
NSW3004	1/16 (1.59)	.750 (19.05)	3/32 (2.38)	.359 (9.12)	.152 (3.86)
NSW3005	5/32 (3.97)	.750 (19.05)	1/32 (0.79)	.498 (12.64)	.378 (9.60)
NSW3006	1/32 (0.79)	.750 (19.05)	1/8 (3.18)	.500 (12.70)	.375 (9.53)
NSW3007	1/16 (1.59)	.750 (19.05)	1/8 (3.18)	.500 (12.70)	.375 (9.53)
NSW3008	1/16 (1.59)	.745 (18.92)	1/32 (0.79)	.375 (9.53)	.320 (8.13)
NSW3009	3/64 (1.19)	.760 (19.30)	5/64 (1.98)	.410 (10.41)	.258 (6.55)
NSW3010	.027 (0.68)	.745 (18.92)	.031 (0.79)	.310 (7.87)	.257 (6.53)
NSW3012	.395 (10.03)	.740 (18.80)	.062 (1.57)	.430 (10.92)	.322 (8.18)
NSW3015	1.005 (25.53)	.752 (19.10)	.060 (1.52)	.505 (12.83)	.320 (8.13)
NSW3016	.050 (1.27)	.745 (18.92)	1/16 (1.59)	.556 (14.12)	.515 (13.08)
NSW3017	5/32 (3.97)	.755 (19.18)	.500 (12.70)	.510 (12.95)	.385 (9.78)
NSW3020	.305 (7.75)	.740 (18.80)	.130 (3.30)	.495 (12.57)	.219 (5.56)
NSW3021	.440 (11.18)	.745 (18.92)	1/16 (1.59)	.495 (12.57)	.390 (9.91)
NSW3030	.252 (6.40)	.780 (19.81)	.079 (2.01)	.392 (9.96)	.250 (6.35)
NSW3100	.325 (8.26)	.825 (20.96)	.060 (1.52)	.435 (11.05)	.310 (7.87)
NSW3101	1/32 (0.79)	.750 (19.05)	1/16 (1.59)	.375 (9.53)	.260 (6.60)
NSW3102	.500 (12.70)	.825 (20.96)	1/16 (1.59)	.620 (15.75)	.520 (13.21)
NSW3103	.500 (12.70)	.872 (22.14)	1/8 (3.18)	.617 (15.67)	.335 (8.51)
NSW3150	1.00 (25.40)	.875 (22.23)	1/16 (1.59)	.500 (12.70)	.375 (9.53)
NSW3151	3/8 (9.53)	7/8 (22.22)	1/8 (3.18)	.633 (16.08)	.510 (12.95)
NSW3155	3/8 (9.53)	.875 (22.23)	1/8 (3.18)	.630 (16.00)	.440 (11.18)
NSW3160	.500 (12.70)	.875 (22.23)	1/16 (1.59)	.750 (19.05)	.635 (16.13)
NSW3165	3/8 (9.53)	.875 (22.23)	1/8 (3.18)	.620 (15.75)	.250 (6.35)
NSW3200	3/16 (4.76)	.995 (25.27)	1/8 (3.18)	.792 (20.12)	.695 (17.65)
NSW3205	5/8 (15.88)	.995 (25.27)	1/8 (3.18)	.787 (19.99)	.695 (17.65)
NSW3210	1.00 (25.40)	.995 (25.27)	1/8 (3.18)	.788 (20.02)	.695 (17.65)
NSW3500	3/16 (4.76)	.750 (19.05)	1/16 (1.59)	.498 (12.64)	.378 (9.60)
NSW3501	7/64 (2.77)	.750 (19.05)	3/32 (2.38)	.577 (14.66)	.390 (9.91)
NSW3502	27/64 (10.72)	.790 (20.07)	3/64 (1.19)	.625 (15.88)	.550 (13.97)
NSW3503	13/16 (8.12)	.625 (15.88)	1/8 (3.18)	.375 (9.53)	.255 (6.47)
NSW3504	13/16 (8.12)	.625 (15.88)	1/8 (3.18)	.375 (9.53)	.260 (6.60)
NSW3507	.250 (6.35)	.830 (21.08)	.100 (2.54)	.452 (11.18)	.253 (6.43)
NSW3510	13/32 (10.32)	.825 (20.96)	3/32 (2.38)	.445 (11.30)	.306 (7.77)
NSW3511	13/64 (5.16)	.880 (22.35)	3/64 (1.19)	.750 (19.05)	.617 (15.67)
NSW3512	.935 (23.75)	.872 (22.15)	.110 (2.79)	.497 (12.62)	.385 (9.78)
NSW3520	17/32 (13.49)	.945 (24.03)	5/64 (1.98)	.470 (11.93)	.406 (10.31)
NSW3562	1/4 (6.35)	.980 (24.89)	1/8 (3.18)	.556 (14.12)	.380 (9.65)
NSW3580	9/16 (14.29)	1.25 (31.75)	3/64 (1.19)	1.00 (25.40)	.559 (14.20)
NSW3600	.660 (16.76)	1.010 (25.65)	.160 (4.06)	.600 (15.24)	.260 (6.60)

Plastic Hardware



H.B. ETLIN CO. LTD.

FOR MORE INFORMATION CALL
1-800-661-9610 (Canada) 1-888-762-5384 (USA)

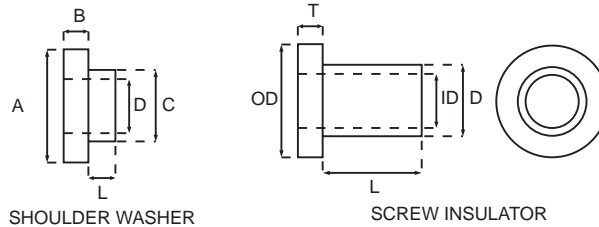


NYLON SHOULDER WASHERS

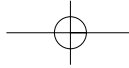
J33

NYLON SHOULDER WASHERS

PART NUMBER	L	A	B	C	D
NSW3601	3/16 (4.76)	1.000 (25.40)	1/4 (6.35)	.435 (11.05)	.325 (8.26)
NSW3602	1/32 (0.79)	1.000 (25.40)	3/32 (2.38)	.616 (15.65)	.515 (13.08)
NSW3603	.050 (1.27)	1.005 (25.53)	.070 (1.78)	.500 (12.70)	.453 (11.51)
NSW3605	5/16 (7.94)	1.005 (25.53)	1/16 (1.59)	.500 (12.70)	.375 (9.53)
NSW3606	.330 (8.38)	1.000 (25.40)	.040 (1.02)	.625 (15.87)	.515 (13.08)
NSW3610	9/16 (14.29)	1.000 (25.40)	1/16 (1.59)	.500 (12.70)	.382 (9.70)
NSW3615	3/4 (19.05)	1.000 (25.40)	1/8 (3.18)	.500 (12.70)	.375 (9.53)
NSW3650	7/64 (2.77)	1.000 (25.40)	5/64 (1.98)	.770 (19.56)	.508 (12.90)
NSW3680	1/16 (1.59)	1.000 (25.40)	1/16 (1.59)	.298 (7.57)	.203 (5.16)
NSW3685	1/16 (1.59)	1.064 (27.02)	1/16 (1.59)	.787 (19.99)	.612 (15.54)
NSW3686	.281 (7.14)	1.105 (28.07)	.092 (2.34)	.718 (18.24)	.515 (13.08)
NSW3690	7/16 (11.11)	1.125 (28.58)	3/32 (2.38)	.700 (17.78)	.510 (12.95)
NSW3691	.060 (1.52)	1.160 (29.46)	.128 (3.25)	.495 (12.57)	.377 (9.58)
NSW4001	3/32 (2.38)	1.125 (28.58)	1/16 (1.59)	.740 (18.80)	.515 (13.08)
NSW4002	3/32 (2.38)	1.230 (31.24)	1/16 (1.59)	.980 (24.89)	.510 (12.95)
NSW4003	9/32 (7.14)	1.105 (28.07)	1/8 (3.18)	.752 (19.10)	.515 (13.08)
NSW4004	.500 (12.70)	1.245 (31.69)	1/8 (3.18)	.875 (22.23)	.627 (15.92)
NSW4005	13/32 (10.32)	1.252 (31.80)	1/16 (1.59)	.600 (15.24)	.538 (13.66)
NSW4006	13/32 (10.32)	1.251 (31.77)	1/16 (1.59)	.528 (13.41)	.471 (11.96)
NSW4007	13/64 (5.16)	1.739 (44.17)	13/64 (5.16)	1.095 (27.81)	.435 (11.04)
NSW4008	11/32 (8.71)	1.250 (31.75)	5/32 (3.97)	.995 (25.27)	.885 (22.48)
NSW4009	.750 (19.05)	1-1/8 (28.57)	1/16 (1.59)	7/16 (11.11)	5/16 (7.94)
NSW4010	3/32 (2.38)	1.250 (31.75)	1/16 (1.59)	.930 (23.62)	.562 (14.27)
NSW4011	.094 (2.39)	1.250 (31.75)	.062 (1.57)	.989 (25.12)	.562 (14.27)
NSW4012	.060 (1.52)	1.650 (41.91)	.060 (1.52)	1.380 (35.05)	1.125 (28.58)
NSW4013	5/8 (15.88)	1.750 (44.45)	1/8 (3.18)	1-3/8 (34.93)	1.015 (25.78)
NSW5001	.500 (12.70)	2.065 (52.45)	1/8 (3.18)	1.050 (26.67)	.806 (20.42)
NSW5009	45/64 (7.03)	2.111 (53.62)	1/8 (3.18)	.603 (15.31)	.270 (6.85)



Plastic Hardware



Plastic Hardware

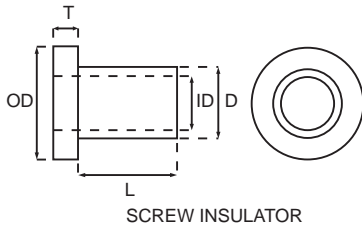
NYLON SCREW INSULATORS

J34

NYLON SCREW INSULATORS

PART NUMBER	L	A	B	C	D
NSI002012	1/8 (3.18)	.181 (4.60)	3/64 (1.19)	.120 (3.05)	.090 (2.29)
NSI002018	3/16 (4.76)	.181 (4.60)	3/64 (1.19)	.120 (3.05)	.090 (2.29)
NSI002025	1/4 (6.35)	.181 (4.60)	3/64 (1.19)	.120 (3.05)	.090 (2.29)
NSI002037	3/8 (9.53)	.181 (4.60)	3/64 (1.19)	.120 (3.05)	.090 (2.29)
NSI004003	1/32 (0.79)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI004004	3/64 (1.19)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI004006	1/16 (1.59)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI004009	3/32 (2.38)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI004012	1/8 (3.18)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI004015	5/32 (3.97)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI004018	3/16 (4.76)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI004025	1/4 (6.35)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI004037	3/8 (9.53)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI004050	1/2 (12.70)	.235 (5.97)	3/64 (1.19)	.145 (3.68)	.115 (2.92)
NSI006004	3/64 (1.19)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSI006006	1/16 (1.59)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSI006009	3/32 (2.38)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSI006012	1/8 (3.18)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSI006015	5/32 (3.97)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSI006018	3/16 (4.76)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSI006025	1/4 (6.35)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSI006037	3/8 (9.53)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSI006050	1/2 (12.70)	.290 (7.37)	3/64 (1.19)	.170 (4.32)	.140 (3.56)
NSI008012	1/8 (3.18)	.344 (8.74)	1/16 (1.59)	.205 (5.21)	.173 (4.39)
NSI008014	9/64 (3.58)	.344 (8.74)	1/16 (1.59)	.205 (5.21)	.173 (4.39)
NSI008025	1/4 (6.35)	.344 (8.74)	1/16 (1.59)	.205 (5.21)	.173 (4.39)
NSI008037	3/8 (9.53)	.344 (8.74)	1/16 (1.59)	.205 (5.21)	.173 (4.39)
NSI008050	1/2 (12.70)	.344 (8.74)	1/16 (1.59)	.205 (5.21)	.173 (4.39)
NSI008062	5/8 (15.88)	.344 (8.74)	1/16 (1.59)	.205 (5.21)	.173 (4.39)
NSI008075	3/4 (19.05)	.344 (8.74)	1/16 (1.59)	.205 (5.21)	.173 (4.39)
NSI010006	1/16 (1.59)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSI010014	9/64 (3.58)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSI010018	3/16 (4.76)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSI010025	1/4 (6.35)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSI010037	3/8 (9.53)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSI010050	1/2 (12.70)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSI010056	9/16 (14.29)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSI010062	5/8 (15.88)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSI010075	3/4 (19.05)	.399 (10.13)	1/16 (1.59)	.260 (6.60)	.200 (5.08)
NSI050012	1/8 (3.18)	.513 (13.03)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSI050014	9/64 (3.58)	.513 (13.03)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSI050018	3/16 (4.76)	.513 (13.03)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSI050025	1/4 (6.35)	.513 (13.03)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSI050037	3/8 (9.53)	.513 (13.03)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSI050050	1/2 (12.70)	.513 (13.03)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSI050062	5/8 (15.88)	.513 (13.03)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSI050075	3/4 (19.05)	.513 (13.03)	1/16 (1.59)	.312 (7.92)	.260 (6.60)
NSI012012	1/8 (3.18)	.620 (15.75)	1/16 (1.59)	.360 (9.14)	.320 (8.13)
NSI012025	1/4 (6.35)	.620 (15.75)	1/16 (1.59)	.360 (9.14)	.320 (8.13)
NSI012037	3/8 (9.53)	.620 (15.75)	1/16 (1.59)	.360 (9.14)	.320 (8.13)
NSI012050	1/2 (12.70)	.620 (15.75)	1/16 (1.59)	.360 (9.14)	.320 (8.13)
NSI012062	5/8 (15.88)	.620 (15.75)	1/16 (1.59)	.360 (9.14)	.320 (8.13)

Plastic Hardware

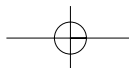


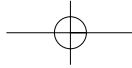
Screw Insulators

Isolate metal screws electrically, reduce corrosion.

Screw insulators may also be used as light load bearings in many applications.

Specify screw size and length when ordering.

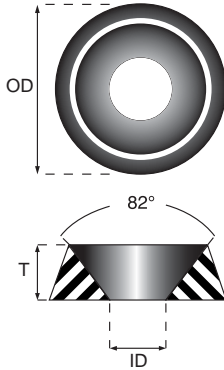




NYLON FINISHING WASHERS

MOULDED NYLON FINISHING WASHERS

J35



PART NUMBER	ID	OD	T
NFW6	.143 (3.63)	.437 (11.10)	.100 (2.54)
NFW8	.171 (4.34)	.510 (12.95)	.115 (2.92)
NFW10	.191 (4.85)	.580 (14.73)	.152 (3.86)
NFW12	.225 (5.75)	.609 (15.47)	.160 (4.06)
NFW25	.260 (6.61)	.683 (17.35)	.180 (4.57)

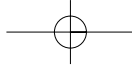
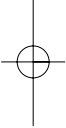
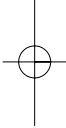
Moulded Nylon Finishing Washers

These washers protect cabinets from scratching, cover misaligned holes, etc.

May also be used as glides, bumpers, feet, and spacers.

Available in Natural or Black Nylon

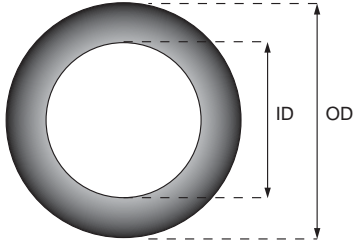
Minimum order: 1,000



Plastic Hardware

NYLON FLAT WASHERS

J36 NYLON FLAT WASHERS - STANDARD TOLERANCES



Nylon Flat Washers

Standard Tolerances:
 OD = ± 0.010
 ID = ± 0.005
 T = ± 0.015

These washers are made to be used with standard screw sizes #2 up to 1/2. They come in the four most popular thickness', from 1/32 up to 1/8.

Minimum order: 1,000

Plastic Hardware

PART NUMBER	ID	OD	T
NFW2-032	.090 (2.29)	.250 (6.35)	.032 (0.81)
NFW2-062	.090 (2.29)	.250 (6.35)	.062 (1.58)
NFW2-093	.090 (2.29)	.250 (6.35)	.093 (2.36)
NFW2-125	.090 (2.29)	.250 (6.35)	.125 (3.18)
NFW4-032	.115 (2.92)	.250 (6.35)	.032 (0.81)
NFW4-062	.115 (2.92)	.250 (6.35)	.062 (1.58)
NFW4-093	.115 (2.92)	.250 (6.35)	.093 (2.36)
NFW4-125	.115 (2.92)	.250 (6.35)	.125 (3.18)
NFW6-032	.140 (3.56)	.312 (7.94)	.032 (0.81)
NFW6-062	.140 (3.56)	.312 (7.94)	.062 (1.58)
NFW6-093	.140 (3.56)	.312 (7.94)	.093 (2.36)
NFW6-125	.140 (3.56)	.312 (7.94)	.125 (3.18)
NFW8-032	.171 (4.34)	.375 (9.53)	.032 (0.81)
NFW8-062	.171 (4.34)	.375 (9.53)	.062 (1.58)
NFW8-093	.171 (4.34)	.375 (9.53)	.093 (2.36)
NFW8-125	.171 (4.34)	.375 (9.53)	.125 (3.18)
NFW10-032	.194 (4.93)	.375 (9.53)	.032 (0.81)
NFW10-062	.194 (4.93)	.375 (9.53)	.062 (1.58)
NFW10-093	.194 (4.93)	.375 (9.53)	.093 (2.36)
NFW10-125	.194 (4.93)	.375 (9.53)	.125 (3.18)
NFW250-032	.257 (6.53)	.500 (12.7)	.032 (0.81)
NFW250-062	.257 (6.53)	.500 (12.7)	.062 (1.58)
NFW250-093	.257 (6.53)	.500 (12.7)	.093 (2.36)
NFW250-125	.257 (6.53)	.500 (12.7)	.125 (3.18)
NFW312-032	.317 (8.05)	.500 (12.7)	.032 (0.81)
NFW312-062	.317 (8.05)	.500 (12.7)	.062 (1.58)
NFW312-093	.317 (8.05)	.500 (12.7)	.093 (2.36)
NFW312-125	.317 (8.05)	.500 (12.7)	.125 (3.18)
NFW375-032	.380 (9.65)	.625 (15.88)	.032 (0.81)
NFW375-062	.380 (9.65)	.625 (15.88)	.062 (1.58)
NFW375-093	.380 (9.65)	.625 (15.88)	.093 (2.36)
NFW375-125	.380 (9.65)	.625 (15.88)	.125 (3.18)
NFW437-032	.443 (11.25)	.750 (19.05)	.032 (0.81)
NFW437-062	.443 (11.25)	.750 (19.05)	.062 (1.58)
NFW437-093	.443 (11.25)	.750 (19.05)	.093 (2.36)
NFW437-125	.443 (11.25)	.750 (19.05)	.125 (3.18)
NFW500-032	.505 (12.83)	.750 (19.05)	.032 (0.81)
NFW500-062	.505 (12.83)	.750 (19.05)	.062 (1.58)
NFW500-093	.505 (12.83)	.750 (19.05)	.093 (2.36)
NFW500-125	.505 (12.83)	.750 (19.05)	.125 (3.18)

NYLON FLAT WASHERS

NYLON FLAT WASHERS - RETAINING WASHERS

J37

PART NUMBER	ID	RETAINING DIAMETER R	OD	T
NFWR2-032	.078 (1.98)	.115 (2.92)	13/64 (5.16)	.031 (0.79)
NFWR2-062	.078 (1.98)	.115 (2.92)	13/64 (5.16)	.062 (1.58)
NFWR4-032	.102 (2.59)	.156 (3.96)	17/64 (6.75)	.031 (0.79)
NFWR4-062	.102 (2.59)	.156 (3.96)	17/64 (6.75)	.062 (1.58)
NFWR6-032	.128 (3.25)	.198 (5.03)	21/64 (8.33)	.031 (0.79)
NFWR6-062	.128 (3.25)	.198 (5.03)	21/64 (8.33)	.062 (1.58)
NFWR8-032	.152 (3.86)	.235 (5.97)	25/64 (9.92)	.031 (0.79)
NFWR8-062	.152 (3.86)	.235 (5.97)	25/64 (9.92)	.062 (1.58)
NFWR10-032	.177 (4.50)	.277 (7.04)	29/64 (11.51)	.031 (0.79)
NFWR10-062	.177 (4.50)	.277 (7.04)	29/64 (11.51)	.062 (1.58)
NFWR250-032	.234 (5.94)	.375 (9.53)	19/32 (15.08)	.031 (0.79)
NFWR250-062	.234 (5.94)	.375 (9.53)	19/32 (15.08)	.062 (1.58)
NFWR312-032	.292 (7.42)	.470 (11.94)	47/64 (18.65)	.031 (0.79)
NFWR312-062	.292 (7.42)	.470 (11.94)	47/64 (18.65)	.062 (1.58)
NFWR375-032	.350 (8.89)	.564 (14.33)	57/64 (22.62)	.031 (0.79)
NFWR375-062	.350 (8.89)	.564 (14.33)	57/64 (22.62)	.062 (1.58)
NFWR437-032	.410 (10.41)	.570 (14.48)	1-1/32 (26.19)	.031 (0.79)
NFWR437-062	.410 (10.41)	.570 (14.48)	1-1/32 (26.19)	.062 (1.58)
NFWR500-032	.468 (11.89)	.690 (17.53)	1-1/8 (28.58)	.031 (0.79)
NFWR500-062	.468 (11.89)	.690 (17.53)	1-1/8 (28.58)	.062 (1.58)

Retaining Washers

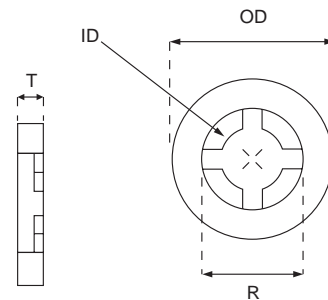
Similar to our standard flat washers, but with a specially configured inside diameter designed to grip the outside of the screw shank.

The washer slides on the screw easily, but is retained on the screw.

For use in applications requiring pre-assembly of the screw and washer to reduce final assembly cost.

Other sizes may be tooled on request.

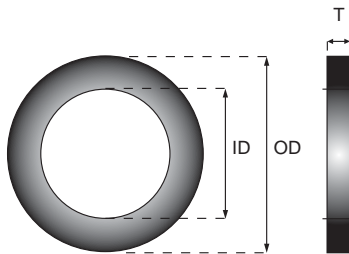
Minimum order: 1,000



Plastic Hardware

NYLON FLAT WASHERS

J38 NYLON FLAT WASHERS - METRIC



Metric Washers

Minimum order: 1,000

PART NUMBER	ID (mm)	OD (mm)	T (mm)
NFW2	2.15	5.00	.080
NFW2.5	2.65	5.60	.080
NFW3	3.20	8.00	.080
NFW3.5	3.70	8.00	.080
NFW4	4.30	9.00	.080
NFW5	5.30	11.00	1.00
NFW6	6.40	12.00	1.50
NFW8	8.40	18.00	2.00
NFW8.5	8.50	25.00	2.00
NFW10	10.50	22.00	2.50

PROTECTIVE PRODUCTS (BUMPER)

PART NUMBER	SHAPE	COLOUR	HEIGHT		DIAMETER		DIE CUT METHOD	CASE QTY
			in	mm	in	mm		
SJ-5001	CYCLINDRICAL	BLACK	0.14	3.56	0.50	12.7	KISS CUT PADS - 40	3,000
SJ-5003	HEMISPHERICAL	WHITE, GREY, BROWN, BLACK	0.20	5.1	0.44	11.2	KISS CUT PADS - 58	3,000
SJ-5007	TAPERED SQUARE	BLACK	0.10	2.5	0.40	10.2	KISS CUT PADS - 108	3,000
SJ-5008	TAPERED SQUARE	WHITE, GREY, BROWN, BLACK	0.12	3.1	0.50	12.7	KISS CUT PADS - 108	3,000
SJ-5009	HEMISPHERICAL	WHITE, GREY, BROWN, BLACK	0.40	10.2	0.88	22.4	KISS CUT PADS - 24	1,000
SJ-5012	CYCLINDRICAL	WHITE, GREY, BROWN, BLACK	0.14	3.56	0.50	12.7	KISS CUT PADS - 56	3,000
SJ-5014	CYCLINDRICAL: TRUNCATED CONE	WHITE, GREY, BROWN, BLACK	0.52	13.2	0.81	20.6	4X1 PERFORATED MATRIX	1,000
SJ-5017	HEMISPHERICAL	WHITE, GREY, BROWN, BLACK	0.38	9.7	0.75	19.0	KISS CUT PADS - 40	1,000
SJ-5018	TAPERED SQUARE	WHITE, GREY, BROWN, BLACK	0.23	5.8	0.50	12.7	KISS CUT PADS - 80	3,000
SJ-5023	TAPERED SQUARE	WHITE, GREY, BROWN, BLACK	0.30	7.6	0.81	20.6	KISS CUT PADS - 36	1,000
SJ-5027	HEMISPHERICAL	WHITE, GREY, BROWN, BLACK	0.31	7.9	0.63	16.0	KISS CUT PADS - 40	1,000
SJ-5302	HEMISPHERICAL	TRANSPARENT	0.085	2.16	0.312	7.9	KISS CUT PADS - 144	3,000
SJ-5303	HEMISPHERICAL	TRANSPARENT	0.20	5.1	0.44	11.2	KISS CUT PADS - 56	3,000
SJ-5306	HEMISPHERICAL	TRANSPARENT	0.15	3.8	0.375	9.5	KISS CUT PADS - 54	3,000
SJ-5312	HEMISPHERICAL	TRANSPARENT	0.14	3.56	0.50	12.7	KISS CUT PADS - 56	3,000
SJ-5508	TAPERED SQUARE	WHITE, GREY, BROWN, BLACK	0.12	3.1	0.50	12.7	8X1 PERFORATED MATRIX	3,000
SJ-5518	TAPERED SQUARE	WHITE, GREY, BROWN, BLACK	0.23	5.8	0.50	12.7	8X1 PERFORATED MATRIX	3,000
SJ-5523	TAPERED SQUARE	WHITE, GREY, BROWN, BLACK	0.30	7.6	0.81	20.6	4X1 PERFORATED MATRIX	1,000
SJ-5532	CIRCULAR DEPRESSED	WHITE, GREY, BROWN, BLACK	0.66	16.8	1.88	47.8	4X1 PERFORATED MATRIX	100
SJ-5705	TAPERED SQUARE	BLACK	0.24	6.1	1.25	31.8	SEPERATE PARTS	1,000
SJ-5744	CYCLINDRICAL	BLACK	0.16	4.06	0.75	19.1	KISS CUT PADS - 40	2,600

Plastic Hardware

NYLON SCREW ANCHORS NYLON HOSE CLAMPS

J39

NYLON SCREW ANCHORS (WALL PLUGS)

PART NUMBER	SCREW SIZE	HOLE SIZE	LENGTH
WA210875	#6-8	3/16 (4.76)	7/8 (22.23)
WA281700	#10-12	1/4 (6.35)	1-1/16 (26.99)
WA351385	#14-16	5/16 (7.94)	1-3/8 (34.93)

Nylon Screw Anchors (Wall Anchors)

Multi-use, light duty nylon anchor for use with sheet metal or wood screws.

For use in wood, concrete, tile, brick or sheet metal.

The expanded rim prevents the loss of the wall plugs inside the hole. Non-twist fins keep them firmly in place and stop rotation.

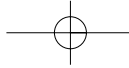
Anchors can be colour-coded for size identification.

WALL PLUG MOUNTS

PART NUMBER	MEASUREMENTS (mm)					
	H	H1	W	L	L1	L2
WPM-01	37	6.3	10	12.7	9.7	12.5
WPM-02	36.2	13	10	12.9	9.7	12.4

NYLON HOSE CLAMPS

PART NUMBER	MAXIMUM WIRE DIAMETER	CLAMPING RANGE
NHC0344	11/32 (8.73)	.360 - .406 (9.14 - 10.31)
NHC0406	13/32 (10.32)	.406 - .468 (10.31 - 11.89)
NHC0468	15/32 (11.91)	.475 - .532 (12.07 - 13.51)
NHC0531	17/32 (13.49)	.538 - .608 (13.67 - 15.44)
NHC0593	19/32 (15.08)	.597 - .665 (15.16 - 16.89)
NHC0750	3/4 (19.05)	.740 - .850 (18.8 - 21.59)
NHC0953	61/64 (24.21)	.953 - 1.085 (24.21 - 27.56)
NHC1031	1-1/32 (26.19)	1.031 - 1.168 (26.19 - 29.67)
NHC1250	1-1/4 (31.75)	1.250 - 1.425 (31.75 - 36.2)
NHC1406	1-13/32 (35.72)	1.406 - 1.610 (35.71 - 40.89)
NHC1593	1-19/32 (40.48)	1.593 - 1.812 (40.46 - 46.02)
NHC1687	1-11/16 (42.86)	1.790 - 2.11 (45.47 - 53.59)
NHC1875	1-7/8 (47.63)	1.870 - 2.125 (47.5 - 53.97)
NHC2125	2-1/8 (53.98)	2.120 - 2.390 (53.85 - 60.71)

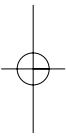
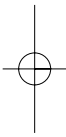


Plastic Hardware

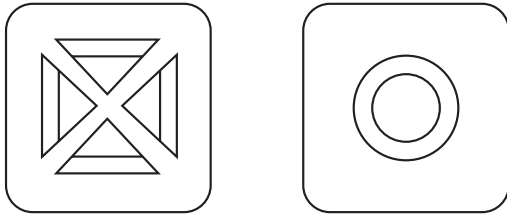
NYLON EXPANSION NUTS

J40 NYLON EXPANSION NUTS

SQUARE HEAD	HOLE SIZE		PANEL THICKNESS		SCREW SIZE	H HEAD SIZE	T HEAD HEIGHT	L LENGTH
	INCHES	METRIC	INCHES	METRIC				
NENS00001	.275/.290	6.99/7.37	.031/.125	0.79/3.18	8 OR 10	.375 (9.63)	.031 (.79)	.320 (8.13)
NENS00002	.275/.290	6.99/7.37	.031/.125	0.79/3.18	8 OR 10	.375 (9.63)	.062 (1.57)	.320 (8.13)
NENS00003	.275/.290	6.99/7.37	.031/.125	0.79/3.18	8 OR 10	.375 (9.63)	.125 (3.18)	.320 (8.13)
NENS00004	.275/.290	6.99/7.37	.031/.125	0.79/3.18	8 OR 10	.375 (9.63)	.250 (6.35)	.320 (8.13)
NENS00005	.375	9.53	.031/.125	0.79/3.18	1/4	5/8 (15.88)	1-1/16 (27.0)	9/32 (7.14)
NENS00006	.250/.260	6.35/6.61	.031/.115	0.79/2.92	6	.437 (11.10)	.094 (2.39)	.220 (5.59)
NENS00007	.270/.270	6.86/6.86	0.62/.275	1.57/6.99	6	.375 (9.53)	.031 (0.79)	.435 (11.05)
NENS00912	.225/.255	5.71/6.48	.031/.125	0.79/3.18	8	.375 (9.53)	.187 (4.75)	.300 (7.62)
NENS00915	.245/.255	6.22/6.48	.031/.125	0.79/3.18	6 OR 8	3/8 (9.53)	1/32 (0.79)	9/32 (7.14)
NENS01000	.250/.255	6.35/6.48	.110/.125	2.79/3.18	6	.375 (9.53)	.031 (1.79)	.265 (6.73)
NENS01012	.173/.178	4.39/4.52	.031/.078	0.79/1.98	4	.218 (5.54)	.250 (6.35)	.218 (5.54)
NENS01014	.250/.270	6.35/6.86	.062/.155	1.57/3.94	6	.375 (9.53)	.032 (0.81)	.312 (7.92)
NENS01016	.285	7.24	.078/.175	1.98/4.45	8	.380 (9.65)	.045 (1.14)	.340 (8.64)
NENS01020	.275/.280	6.99/7.11	.040/.045	1.02/1.14	8 OR 10	.370 (9.40)	.032 (0.81)	.330 (8.38)
NENS01021	.375/.390	9.53/9.91	.230	5.48	1/4	5/8 (15.88)	.080 (2.03)	.438 (11.13)
NENS01122	.350/.355	8.89/9.02	.218/.230	5.54/5.84	8 OR 10	.475 (12.07)	.062 (1.57)	.421 (10.69)
NENS01125	.370/.390	9.40/9.91	.064/.187	1.57/4.75	10	.609 (15.47)	.085 (2.16)	.290 (7.37)
NENS01126	.305/.315	7.75/8.00	.031/.175	0.79/4.44	8	.470 (11.94)	.060 (1.52)	.300 (7.62)
NENS01130	.370/.375	9.40/9.52	.031/.100	0.79/2.54	12	.620 (15.75)	.080 (2.03)	.275 (6.98)
NENS01135	.173/.178	4.39/4.52	.031/.078	0.79/1.98	4	.218 (5.54)	.050 (1.27)	.218 (5.54)
NENS01145	.270/.310	6.85/7.87	.031/.170	0.79/4.32	8	.405 (10.29)	.062 (1.57)	.312 (7.92)
NENS01150	.310/.310	7.87/7.87	.031/.170	0.79/4.32	10	.465 (11.81)	.062 (1.57)	.295 (7.49)
NENS01154	.320/.320	8.13/8.13	.031/.155	0.79/3.94	10	.650 (16.51)	.072 (1.83)	.305 (7.75)
NENS01155	.245/.270	6.22/6.85	.047/.095	1.19/2.41	2	.375 (9.52)	.032 (0.81)	.240 (6.07)
NENS01160	.335/.340	8.52/8.64	.062/.125	1.58/3.17	8	.512 (12.96)	.075 (1.90)	.315 (8.00)
NENS01165	.270/.270	6.86/6.86	.062/.125	1.58/3.17	6	.390 (9.90)	.050 (1.27)	.275 (6.99)
NENS01170	.275/.285	6.90/7.24	.031/.125	0.79/3.17	4	.375 (9.53)	.050 (1.27)	.218 (5.54)
NENS01171	.200/.270	5.08/6.86	.032/.156	0.81/3.96	6	.312/.437 (7.93/11.1)	.035 (0.89)	.312 (7.93)
NENS01175	.275/.280	6.99/7.11	.062/.120	1.60/3.05	6	.390 (9.90)	.055 (1.40)	.281 (7.14)
NENS01176	.260/.270	6.61/6.86	.093/.187	2.36/4.75	6	.410 (10.41)	.040 (1.02)	.310 (7.87)
NENS01178	.265	6.73	.047/.180	1.19/4.57	8	.375 (9.53)	.032 (0.81)	.327 (8.31)
NENS01179	.365	9.28	.062/.120	1.19/4.57	1/4	5/8 (15.88)	.080 (2.04)	9/32 (7.14)
NENS01180	.370/.375	9.40/9.50	.062/.120	1.60/3.05	1/4	.625 (15.90)	.080 (2.04)	.281 (7.14)
NENS01181	.410/.410	10.42/10.42	.031/.062	0.79/1.58	1/4	.630 (16.00)	.140 (3.56)	.280 (7.12)
NENS01185	.320/.335	8.08/8.51	.032/.234	0.81/5.94	10	.470 (11.94)	.055 (1.40)	.420 (10.67)
NENS01190	.335/.345	8.51/8.76	.062/.171	1.58/4.35	10	.468 (11.88)	.095 (2.42)	.400 (10.16)
NENS01195	.330/.365	8.38/9.28	.032/.095	0.81/2.41	8	.500 (12.70)	.094 (2.39)	.295 (7.50)
NENS01200	.250/.260	6.35/6.61	.062/.125	1.58/3.18	6	.375 (9.53)	.140 (3.56)	.265 (6.73)



Plastic Hardware

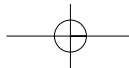


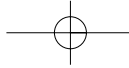
BOTTOM (DOUBLE SPLIT STYLE)

Nylon Expansion Nuts

Used with self-threading metal screws, these snap-in nuts expand and securely lock screws and assembled parts in place, connecting thin-gauge materials and eliminating cross-threading. They are corrosion and vibration resistant. Design variation is available.

Minimum order: 1,000 for full range.





NYLON EXPANSION NUTS

NYLON EXPANSION NUTS (continued)

J41

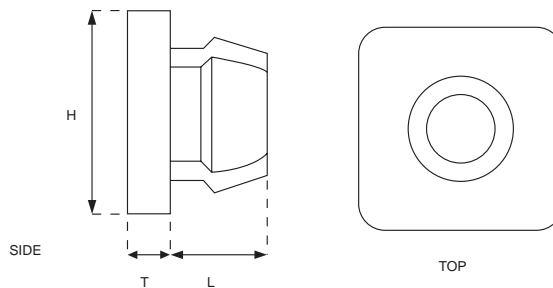
DOUBLE SPLIT SQUARE HEAD	HOLE SIZE		PANEL THICKNESS		SCREW SIZE	H HEAD SIZE	T HEAD HEIGHT	L LENGTH
	INCHES	METRIC	INCHES	METRIC				
NENS01010	.377/.382	9.58/9.70	.125/.130	3.18/3.30	10	39/64 (15.48)	.082 (2.08)	.308 (7.82)
NENS01015	.228/.233	5.79/5.92	.250/.271	6.35/6.88	8	.375 (9.53)	.031 (0.79)	.406 (10.31)
NENS01018	.310/.315	7.87/8.00	.110/.115	2.79/2.92	8	.437 (11.10)	.078 (1.98)	.281 (7.14)
NENS01019	.305/.310	7.75/7.87	.125/.135	3.18/3.43	8	.437 (11.10)	.062 (1.57)	.281 (7.14)
NENS01025	.250/.250	6.35/6.35	.093/.275	0.91/6.99	8	.375 (9.53)	.047 (1.19)	.420 (10.67)
NENS01128	.330/.330	8.38/8.38	.031/.125	0.79/3.18	8	.505 (12.83)	.032 (0.81)	.275 (6.98)
NENS01030	.303	7.70	.031/.145	0.79/3.68	8 OR 10	.435 (11.05)	.062 (1.57)	.270 (6.86)

ROUND HEAD	HOLE SIZE		PANEL THICKNESS		SCREW SIZE	H HEAD SIZE	T HEAD HEIGHT	L LENGTH
	INCHES	METRIC	INCHES	METRIC				
NENS00009	.270/.280	6.86/7.11	.062/.165	1.57/4.19	6	.375 (9.53)	.093 (2.36)	.297 (7.54)
NENS00010	.275/.290	6.99/7.37	.031/.125	0.79/3.18	8 OR 10	.500 (12.70)	.031 (0.79)	.320 (8.13)
NENS00011	.271/.290	6.88/7.37	.031/.125	0.79/3.18	8 OR 10	.500 (12.70)	.062 (1.57)	.320 (8.13)
NENS00012	.271/.290	6.88/7.37	.031/.125	0.79/3.18	8 OR 10	.500 (12.70)	.125 (3.18)	.320 (8.13)
NENS00013	.275/.290	6.99/7.37	.031/.125	0.79/3.18	8 OR 10	.500 (12.70)	.250 (6.35)	.320 (8.13)
NENS00038	.275/.290	6.99/7.37	.031/.156	0.79/3.96	8	.500 (12.70)	.375 (9.53)	.320 (8.13)
NENS00072	.275/.290	6.99/7.37	.031/.156	0.79/3.96	8 OR 10	.500 (12.70)	.708 (17.98)	.315(8.00)
NENS00073	.280/.285	7.11/7.24	.032/.150	0.81/3.81	6	.500 (12.70)	23/32 (18.26)	11/32 (8.73)
NENS00100	.275/.290	6.99/7.37	.031/.156	0.79/3.96	8 OR 10	.437 (11.10)	.032 (0.81)	.325 (8.26)
NENS00818	.275/.290	6.99/7.37	.031/.109	0.79/2.77	8 OR 10	.547 (13.89)	1.062 (26.97)	.281 (7.14)
NENS01013	.285/.290	7.24/7.37	.031/.094	0.79/2.39	8	.455 (11.56)	1.505 (38.23)	.275 (6.99)
NENS01121	.350/.355	8.89/9.27	.032/.125	0.81/3.185	12	.531 (13.31)	.125 (3.18)	.281 (7.14)
NENS01140	.310/.310	7.87/7.87	.031/.160	0.79/4.06	10	.500 (12.70)	.035 (0.89)	.292 (7.42)
NENS02200	.425/.429	10.80/10.90	.031/.110	0.79/2.79	5/16	.740 (18.80)	.190 (4.83)	.312 (7.92)
NENS02300	.415/4.30	10.54/10.92	.032/.135	0.81/3.43	1/4	.750 (19.05)	.062 (1.57)	.310 (7.87)
NENS02400	.325/.330	8.26/8.38	.031/.156	0.79/3.96	10	.565 (14.35)	.062 (1.57)	.320 (8.13)
NENS02500	.275	6.99	.062/.170	1.57/4.32	8	.495 (12.57)	.312 (7.92)	.325 (8.26)

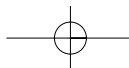
THREE LEGGED SQUARE HEAD	HOLE SIZE		PANEL THICKNESS		SCREW SIZE	H HEAD SIZE	T HEAD HEIGHT	L LENGTH
	INCHES	METRIC	INCHES	METRIC				
NENS03300*	.300/.300	7.62/7.62	.031/.135	0.78/3.43	6	.485 (12.32)	.055 (1.40)	.265 (6.73)

*Three legged square head expansion nut fits round hole

ROUND & THREE LEG



Plastic Hardware





NYLON THREADED STANDOFFS

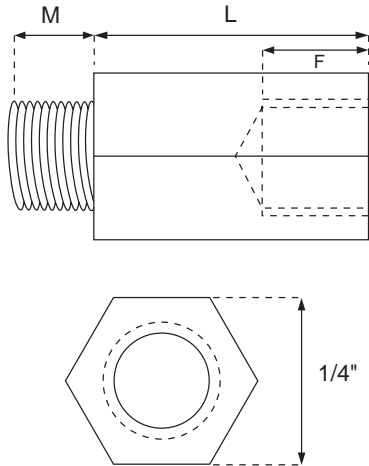
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NYLON MALE - FEMALE THREADED STANDOFFS

* F DIMENSION IS ADJUSTED WHEN THE LENGTH WILL NOT PERMIT FULL THREAD DEPTH AS FOLLOWS:

WHERE L = 1/4 (6.35) F = 3/16 (4.76)
 WHERE L = 3/8 (9.53) F = 1/4 (6.35)
 WHERE L = 1/2 (12.7) F = 3/8 (9.53)

THREAD SIZE	M	F*
4/40 (2.54)	3/16 (4.76)	1/4 (6.35)
6/32 (4.76)	1/4 (6.35)	3/8 (9.53)
8/32 (6.35)	3/8 (9.53)	7/16 (11.11)



Nylon Male-Female Threaded Standoffs

Minimum order: 1,000

PART NUMBER	THREAD (IN/MM)	LENGTH (IN/MM)
NMF440X.250	4/40 (2.54)	1/4 (6.35)
NMF632X.250	6/32 (4.76)	1/4 (6.35)
NMF832X.250	8/32 (6.35)	1/4 (6.35)
NMF440X.375	4/40 (2.54)	3/8 (9.53)
NMF632X.375	6/32 (4.76)	3/8 (9.53)
NMF832X.375	8/32 (6.35)	3/8 (9.53)
NMF440X.500	4/40 (2.54)	1/2 (12.7)
NMF632X.500	6/32 (4.76)	1/2 (12.7)
NMF832X.500	8/32 (6.35)	1/2 (12.7)
NMF440X.625	4/40 (2.54)	5/8 (15.88)
NMF632X.625	6/32 (4.76)	5/8 (15.88)
NMF832X.625	8/32 (6.35)	5/8 (15.88)
NMF440X.750	4/40 (2.54)	3/4 (19.05)
NMF632X.750	6/32 (4.76)	3/4 (19.05)
NMF832X.750	8/32 (6.35)	3/4 (19.05)
NMF440X.875	4/40 (2.54)	7/8 (22.23)
NMF632X.875	6/32 (4.76)	7/8 (22.23)
NMF832X.875	8/32 (6.35)	7/8 (22.23)
NMF440X1.000	4/40 (2.54)	1 (25.4)
NMF632X1.000	6/32 (4.76)	1 (25.4)
NMF832X1.000	8/32 (6.35)	1 (25.4)
NMF440X1.125	4/40 (2.54)	1-1/8 (28.58)
NMF632X1.125	6/32 (4.76)	1-1/8 (28.58)
NMF832X1.125	8/32 (6.35)	1-1/8 (28.58)
NMF440X1.250	4/40 (2.54)	1-1/4 (31.75)
NMF632X1.250	6/32 (4.76)	1-1/4 (31.75)
NMF832X1.250	8/32 (6.35)	1-1/4 (31.75)
NMF440X1.375	4/40 (2.54)	1-3/8 (34.93)
NMF632X1.375	6/32 (4.76)	1-3/8 (34.93)
NMF832X1.375	8/32 (6.35)	1-3/8 (34.93)
NMF440X1.500	4/40 (2.54)	1-1/2 (38.1)
NMF632X1.500	6/32 (4.76)	1-1/2 (38.1)
NMF832X1.500	8/32 (6.35)	1-1/2 (38.1)
NMF440X1.625	4/40 (2.54)	1-5/8 (41.28)
NMF632X1.625	6/32 (4.76)	1-5/8 (41.28)
NMF832X1.625	8/32 (6.35)	1-5/8 (41.28)
NMF440X1.750	4/40 (2.54)	1-3/4 (44.45)
NMF632X1.750	6/32 (4.76)	1-3/4 (44.45)
NMF832X1.750	8/32 (6.35)	1-3/4 (44.45)
NMF440X2.000	4/40 (2.54)	2 (50.8)
NMF632X2.000	6/32 (4.76)	2 (50.8)
NMF832X2.000	8/32 (6.35)	2 (50.8)

Plastic Hardware