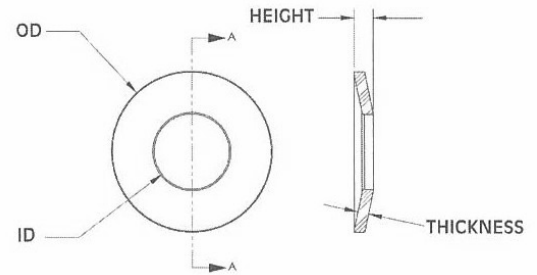


## Spring Washers

- ★ Molded in acetal material
- ★ Excellent spring properties
- ★ Eliminate rattles, take up tolerance variables and provide accurate spacing and tension

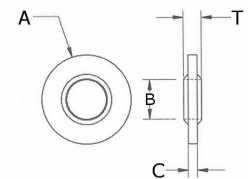
Type	OD mm	ID mm	H mm	T mm	Screw sizes	
03-PNWSP10/21	21.54	11.46	2.41	1.40	3/8"	M10
03-PNWSP8/17	16.76	8.33	2.03	1.22	5/16"	M8
03-PNWSP5/10	10.57	5.97	1.57	0.89	#10	M5
03-PNWSP3.5/8	8.03	3.86	1.14	0.69	#6	M3.5
03-PNWSP5/9	9.27	5.18	1.35	0.76	#10	M5
03-PNWSP4/8	7.54	4.39	1.17	0.71	#8	M4
03-PNWSP6/14	14.33	6.71	1.68	0.97	1/4"	M6



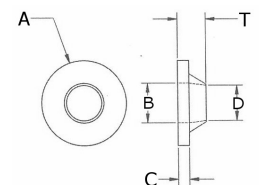
## Sealing And Locking Washers

- ★ Material is nylon 6/6
- ★ These washer's unique geometry creates an interference both on the OD of a hex nut, and on the ID on the shanks or thread of the screw
- ★ As the screw is tightened, the OD cold flows around the hex of a nut and the ID cold flows into the threads of the bolt or screw

Part Number	A	T	C	B	D	Thread		Type
03-PNWS10/20A	19.6	5.3	2.1	10.0	-	3/8"	M10	A
03-PNWS14/25A	25.2	5.5	2.5	14.0	-	9/16"	M14	A
03-PNWS3/7A	7.0	1.4	0.7	3.1	-	#5	M3	A
03-PNWS4/9A	9.0	2.8	2.8	4.2	-	#8	M4	A
03-PNWS6/12A	12.0	4.0	1.6	6.1	-	N/A	M6	A
03-PNWS6/13B	12.5	2.8	1.5	6.3	4.95	N/A	M6	B
03-PNWS8/16A	15.8	4.6	2.1	8.1	-	5/16"	M8	A
03-PNWS8/16B	16.0	3.1	1.6	8.2	7.01	N/A	M8	B
03-PNWS-R1/4BSP	19.0	4.5	2.5	13.2	12.2	*R 1/4"	N/A	B
03-PNWS-R1/8BSP	15.0	4.0	2.0	10.3	9.45	*R 1/8"	N/A	B



PART DESIGN A



PART DESIGN B

## Retaining Rings Washers

- ★ Protect surfaces
- ★ Molded in Natural Nylon 6/6
- ★ Designed to prevent the loss of screws and bolts
- ★ The washer allows preliminary mounting of the bolt before securing with a nut
- ★ The tapered part of the washer provides locking and the screwed assembly
- ★ The tapered part of the washer also cold forms and fully enters the pitch of the screw to provide sealing

Type	OD mm	ID mm	Thickness mm	Screw Size
03-PNWR3/8	8.15	3.20	2.24	4
03-PNWR4/9	9.22	3.91	2.41	6
03-PNWR4/10	9.65	4.09	2.62	8
03-PNWR5/10	10.69	5.08	3.05	10
03-PNWR6/12	12.70	6.15	3.53	1/4"
03-PNWR8/16	16.26	8.08	4.01	5/16"
03-PNWR9/18	19.70	9.68	4.50	3/8"
03-PNWR 12/25	25.40	12.80	5.00	1/2"

