

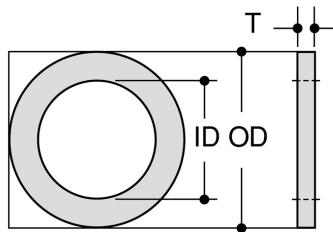


Nylon Flat Washers

Special Tolerances: OD and ID $\pm .015$, T $\pm .010$

Seal, insulate, absorb shock and vibration. They prevent galling and marring, and may also be used as spacers, guides, bearings, bushings, etc.

Other sizes can be tooled for moulding or stamping in any plastic. Request a quotation, specifying size, tolerance and quantity.



Part No.	I.D.		O.D.		Thickness		Material	Colour
	in	mm	in	mm	in	mm		
FW-031-4	0.031	0.79	0.090	2.29	0.031	0.79	Nylon	Natural
FW-035-4	0.035	0.89	0.100	2.54	0.020	0.51	Nylon	Natural
FW-093-5	0.093	2.36	0.187	4.75	0.020	0.51	Nylon	Natural
FW-093-10	0.093	2.36	0.187	4.75	0.031	0.79	Nylon	Natural
FW-105-5	0.105	2.67	0.250	6.35	0.031	0.79	Nylon	Natural
FW-105-10	0.105	2.67	0.250	6.35	0.062	1.57	Nylon	Natural
FW-113-1	0.113	2.87	0.240	6.10	0.040	1.02	Nylon	Natural
FW-120-20	0.120	3.05	0.250	6.35	0.031	0.79	Nylon	Natural
FW-120-25	0.120	3.05	0.281	7.14	0.020	0.51	Nylon	Natural
FW-120-30	0.120	3.05	0.281	7.14	0.030	0.76	Nylon	Natural
FW-120-35	0.120	3.05	0.281	7.14	0.040	1.02	Nylon	Natural
FW-120-40	0.120	3.05	0.281	7.14	0.050	1.27	Nylon	Natural
FW-120-45	0.120	3.05	0.310	7.87	0.047	1.19	Nylon	Natural
FW-125-5	0.125	3.18	0.281	7.14	0.030	0.76	Nylon	Natural
FW-125-10	0.125	3.18	0.281	7.14	0.062	1.57	Nylon	Natural
FW-125-15	0.125	3.18	0.312	7.92	0.031	0.79	Nylon	Natural

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FW-125-20	0.125	3.18	0.312	7.92	0.062	1.57	Nylon	Natural
FW-125-25	0.125	3.18	0.375	9.53	0.031	0.79	Nylon	Natural
FW-125-30	0.125	3.18	0.500	12.70	0.100	2.54	Nylon	Natural
FW-126-4	0.126	3.20	0.250	6.35	0.025	0.64	Nylon	Natural
FW-130-5	0.130	3.30	0.250	6.35	0.093	2.36	Nylon	Natural
FW-130-8	0.130	3.30	0.350	8.89	0.062	1.57	Nylon	Natural
FW-140-10	0.140	3.56	0.250	6.35	0.062	1.57	Nylon	Natural
FW-140-15	0.140	3.56	0.250	6.35	0.080	2.03	Nylon	Natural
FW-140-20	0.140	3.56	0.285	7.24	0.118	3.00	Nylon	Natural
FW-140-25	0.140	3.56	0.312	7.92	0.047	1.19	Nylon	Natural
FW-141-4	0.141	3.58	0.375	9.53	0.031	0.79	Nylon	Natural
FW-146-15	0.146	3.71	0.312	7.92	0.050	1.27	Nylon	Natural
FW-146-20	0.146	3.71	0.375	9.53	0.062	1.57	Nylon	Natural
FW-147-3	0.147	3.73	0.437	11.10	0.062	1.57	Nylon	Natural
FW-150-10	0.150	3.81	0.312	7.92	0.040	1.02	Nylon	Natural
FW-150-15	0.150	3.81	0.312	7.92	0.050	1.27	Nylon	Natural
FW-150-20	0.150	3.81	0.312	7.92	0.062	1.57	Nylon	Natural
FW-156-3	0.156	3.96	0.250	6.35	0.093	2.36	Nylon	Natural
FW-156-10	0.156	3.96	0.312	7.92	0.020	0.51	Nylon	Natural
FW-156-15	0.156	3.96	0.312	7.92	0.031	0.79	Nylon	Natural
FW-156-25	0.156	3.96	0.375	9.53	0.031	0.79	Nylon	Natural
FW-160-5	0.170	4.32	0.248	6.30	0.100	2.54	Nylon	Natural
FW-162-5	0.162	4.11	0.312	7.92	0.062	1.57	Nylon	Natural
FW-165-10	0.165	4.19	0.500	12.70	0.075	1.91	Nylon	Natural
FW-167-4	0.167	4.24	0.302	7.67	0.062	1.57	Nylon	Natural
FW-168-5	0.168	4.27	0.500	12.70	0.062	1.57	Nylon	Natural
FW-172-5	0.172	4.37	0.375	9.53	0.060	1.52	Nylon	Natural
FW-175-5	0.175	4.45	0.375	9.53	0.040	1.02	Nylon	Natural
FW-184-2	0.184	4.67	0.280	7.11	0.040	1.02	Nylon	Natural
FW-187-5	0.187	4.75	0.375	9.53	0.032	0.81	Nylon	Natural
FW-187-10	0.187	4.75	0.500	12.70	0.040	1.02	Nylon	Natural
FW-187-14	0.187	4.75	0.625	15.88	0.062	1.57	Nylon	Natural
FW-189-5	0.189	4.80	1.006	25.55	0.064	1.63	Nylon	Natural
FW-190-5	0.190	4.83	0.330	8.38	0.062	1.57	Nylon	Natural
FW-190-10	0.190	4.83	0.437	11.10	0.032	0.81	Nylon	Natural
FW-190-15	0.190	4.83	0.885	22.48	0.062	1.57	Nylon	Natural
FW-191-4	0.191	4.85	0.335	8.51	0.032	0.81	Nylon	Natural
FW-194-1	0.194	4.93	0.312	7.92	0.032	0.81	Nylon	Natural

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W-6252	0.194	4.93	0.625	15.88	0.124	3.15	Nylon	Natural
FW-195-5	0.195	4.95	0.437	11.10	0.030	0.76	Nylon	Natural
W-4501	0.200	5.08	0.450	11.43	0.048	1.22	Nylon	Natural
FW-00-10	0.200	5.08	0.625	15.88	0.062	1.57	Nylon	Natural
FW-201-10	0.201	5.11	0.437	11.10	0.062	1.57	Nylon	Natural
FW-203-5	0.203	5.16	0.437	11.10	0.031	0.79	Nylon	Natural
FW-203-10	0.203	5.16	0.437	11.10	0.093	2.36	Nylon	Natural
FW-218-5	0.218	5.54	0.437	11.10	0.031	0.79	Nylon	Natural
FW-218-10	0.218	5.54	0.437	11.10	0.040	1.02	Nylon	Natural
FW-218-14	0.218	5.54	0.625	15.88	0.062	1.57	Nylon	Natural
FW-218-15	0.218	5.54	0.750	19.05	0.062	1.57	Nylon	Natural
FW-220-2	0.220	5.59	0.435	11.05	0.078	1.98	Nylon	Natural
FW-225-5	0.225	5.72	0.415	10.54	0.050	1.27	Nylon	Natural
FW-250-4	0.250	6.35	0.375	9.53	0.016	0.41	Nylon	Natural
W-4351	0.250	6.35	0.435	11.05	0.094	2.39	Nylon	Natural
FW-250-5	0.250	6.35	0.625	15.88	0.062	1.57	Nylon	Natural
FW-250-8	0.250	6.35	0.719	18.26	0.062	1.57	Nylon	Natural
FW-253-4	0.253	6.43	0.375	9.53	0.084	2.13	Nylon	Natural
FW-253-5	0.253	6.43	0.550	13.97	0.032	0.81	Nylon	Natural
FW-254-4	0.254	6.45	0.565	14.35	0.094	2.39	Nylon	Natural
FW-255-1	0.255	6.48	0.555	14.10	0.047	1.19	Nylon	Natural
FW-255-2	0.255	6.48	0.375	9.53	0.115	2.92	Nylon	Natural
FW-256-5	0.256	6.50	0.626	15.90	0.020	0.51	Nylon	Natural
FW-257-5	0.257	6.53	0.500	12.70	0.080	2.03	Nylon	Natural
FW-257-6	0.257	6.53	0.750	19.05	0.062	1.57	Nylon	Natural
FW-257-7	0.257	6.53	0.875	22.23	0.031	0.79	Nylon	Natural
FW-257-8	0.257	6.53	0.875	22.23	0.060	1.52	Nylon	Natural
FW-260-5	0.260	6.60	0.362	9.19	0.060	1.52	Nylon	Natural
FW-260-10	0.260	6.60	0.437	11.10	0.047	1.19	Nylon	Natural
FW-260-15	0.260	6.60	0.562	14.27	0.062	1.57	Nylon	Natural
FW-260-18	0.260	6.60	0.687	17.45	0.040	1.02	Nylon	Natural
FW-260-20	0.260	6.60	0.687	17.45	0.060	1.52	Nylon	Natural
FW-265-12	0.265	6.73	0.625	15.88	0.060	1.52	Nylon	Natural
FW-278-4	0.278	7.06	0.437	11.10	0.032	0.81	Nylon	Natural
FW-281-5	0.281	7.14	0.500	12.70	0.031	0.79	Nylon	Natural
FW-281-10	0.281	7.14	0.625	15.88	0.030	0.76	Nylon	Natural
FW-281-15	0.281	7.14	0.625	15.88	0.115	2.92	Nylon	Natural
FW-281-30	0.281	7.14	1.250	31.75	0.062	1.57	Nylon	Natural

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FW-290-3	0.290	7.37	0.445	11.30	0.033	0.84	Nylon	Natural
FW-296-5	0.296	7.52	0.625	15.88	0.039	0.99	Nylon	Natural
FW-312-2	0.312	7.92	0.625	15.88	0.062	1.57	Nylon	Natural
FW-315-4	0.315	8.00	0.625	15.88	0.031	0.79	Nylon	Natural
FW-315-6	0.315	8.00	0.626	15.90	0.124	3.15	Nylon	Natural
FW-315-7	0.315	8.00	0.872	22.15	0.062	1.57	Nylon	Natural
FW-323-3	0.323	8.20	0.750	19.05	0.062	1.57	Nylon	Natural
FW-327-5	0.327	8.31	0.562	14.27	0.093	2.36	Nylon	Natural
FW-330-5	0.330	8.38	0.562	14.27	0.062	1.57	Nylon	Natural
FW-331-4	0.331	8.41	0.709	18.01	0.079	2.01	Nylon	Natural
FW-333-5	0.333	8.46	0.562	14.27	0.031	0.79	Nylon	Natural
FW-340-5	0.340	8.64	0.687	17.45	0.056	1.42	Nylon	Natural
FW-343-3	0.343	8.71	0.500	12.70	0.109	2.77	Nylon	Natural
FW-343-5	0.343	8.71	0.875	22.23	0.062	1.57	Nylon	Natural
W-7507	0.352	8.94	0.750	19.05	0.031	0.79	Nylon	Natural
FW-375-5	0.375	9.53	0.500	12.70	0.080	2.03	Nylon	Natural
FW-375-15	0.375	9.53	0.875	22.23	0.062	1.57	Nylon	Natural
FW-375-16	0.375	9.53	0.900	22.86	0.055	1.40	Nylon	Natural
FW-378-2	0.378	9.60	0.626	15.90	0.064	1.63	Nylon	Natural
FW-380-5	0.380	9.65	0.875	22.23	0.093	2.36	Nylon	Natural
FW-381-10	0.381	9.68	0.750	19.05	0.062	1.57	Nylon	Natural
FW-381-15	0.381	9.68	1.000	25.40	0.062	1.57	Nylon	Natural
FW-385-5	0.385	9.78	0.750	19.05	0.045	1.14	Nylon	Natural
FW-390-5	0.390	9.91	0.625	15.88	0.093	2.36	Nylon	Natural
FW-390-15	0.390	9.91	1.500	38.10	0.062	1.57	Nylon	Natural
W-12505	0.390	9.91	1.250	31.75	0.040	1.02	Nylon	Natural
FW-392-2	0.392	9.96	0.755	19.18	0.123	3.12	Nylon	Natural
W-12604	0.400	10.16	1.270	32.26	0.062	1.57	Nylon	Natural
FW-405-4	0.405	10.29	0.540	13.72	0.112	2.84	Nylon	Natural
FW-406-10	0.406	10.31	0.812	20.62	0.062	1.57	Nylon	Natural
FW-406-15	0.406	10.31	0.875	22.23	0.093	2.36	Nylon	Natural
FW-406-18	0.406	10.31	0.984	24.99	0.124	3.15	Nylon	Natural
FW-406-20	0.406	10.31	1.000	25.40	0.062	1.57	Nylon	Natural
FW-408-4	0.408	10.36	0.875	22.23	0.060	1.52	Nylon	Natural
FW-433-10	0.433	11.00	0.551	14.00	0.059	1.50	Nylon	Natural
FW-500-10	0.500	12.70	0.687	17.45	0.062	1.57	Nylon	Natural
FW-500-15	0.500	12.70	1.000	25.40	0.062	1.57	Nylon	Natural
FW-500-17	0.500	12.70	1.125	28.58	0.122	3.10	Nylon	Natural

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FW-500-20	0.500	12.70	1.250	31.75	0.062	1.57	Nylon	Natural
FW-500-25	0.500	12.70	1.375	34.93	0.062	1.57	Nylon	Natural
FW-505-10	0.505	12.83	0.780	19.81	0.062	1.57	Nylon	Natural
FW-508-2	0.508	12.90	1.000	25.40	0.062	1.57	Nylon	Natural
FW-510-5	0.510	12.95	0.890	22.61	0.062	1.57	Nylon	Natural
FW-510-10	0.510	12.95	0.890	22.61	0.093	2.36	Nylon	Natural
FW-510-15	0.510	12.95	0.900	22.86	0.075	1.91	Nylon	Natural
FW-515-4	0.515	13.08	0.716	18.19	0.015	0.38	Nylon	Natural
FW-515-5	0.515	13.08	0.890	22.61	0.031	0.79	Nylon	Natural
FW-515-10	0.515	13.08	1.000	25.40	0.080	2.03	Nylon	Natural
FW-515-14	0.515	13.08	1.468	37.29	0.050	1.27	Nylon	Natural
FW-516-4	0.516	13.11	1.250	31.75	0.060	1.52	Nylon	Natural
FW-525-13	0.525	13.34	1.375	34.93	0.125	3.18	Nylon	Natural
FW-531-5	0.531	13.49	1.000	25.40	0.060	1.52	Nylon	Natural
FW-531-12	0.531	13.49	1.250	31.75	0.093	2.36	Nylon	Natural
FW-551-10	0.551	14.00	0.945	24.00	0.079	2.01	Nylon	Natural
FW-562-10	0.562	14.27	1.250	31.75	0.062	1.57	Nylon	Natural
FW-625-2	0.625	15.88	1.000	25.40	0.062	1.57	Nylon	Natural
FW-625-5	0.625	15.88	1.250	31.75	0.062	1.57	Nylon	Natural
FW-625-10	0.625	15.88	1.625	41.28	0.062	1.57	Nylon	Natural
FW-645-2	0.645	16.38	1.310	33.27	0.120	3.05	Nylon	Natural
FW-660-5	0.660	16.76	1.500	38.10	0.093	2.36	Nylon	Natural
FW-697-8	0.697	17.70	1.425	36.20	0.100	2.54	Nylon	Natural
FW-750-2	0.750	19.05	1.000	25.40	0.060	1.52	Nylon	Natural
FW-765-4	0.765	19.43	1.250	31.75	0.080	2.03	Nylon	Natural
FW-810-5	0.810	20.57	1.480	37.59	0.062	1.57	Nylon	Natural
FW-844-4	0.844	21.44	1.031	26.19	0.040	1.02	Nylon	Natural
FW-875-10	0.875	22.23	1.250	31.75	0.124	3.15	Nylon	Natural
FW-1031-2	1.031	26.19	1.218	30.94	0.040	1.02	Nylon	Natural
FW-1280-2	1.280	32.51	1.937	49.20	0.062	1.57	Nylon	Natural
FW-1375-2	1.375	34.93	1.625	41.28	0.110	2.79	Nylon	Natural

Minimum order 1000.

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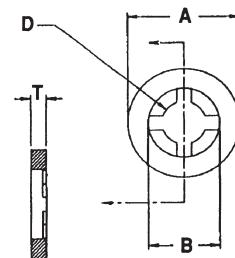
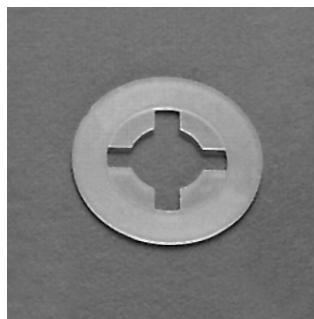
62 Densley Avenue, Toronto, Ontario Canada M6M 5E1

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Retaining

Similar to our standard flat washer, 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 preassembly of the screw and washer to reduce final assembly cost. Other sizes may be tooled on request.



Part No.	I.D.		O.D.			R Retaining Dia.		Thickness		Material	Colour
	in	mm	Fraction	in	mm	in	mm	in	mm		
FWR-2-032	0.078	1.98	13/64	0.203	5.16	0.115	2.92	0.031	0.79	Nylon	Natural
FWR-2-062	0.078	1.98	13/64	0.203	5.16	0.115	2.92	0.062	1.57	Nylon	Natural
FWR-4-032	0.102	2.59	17/64	0.266	6.75	0.156	3.96	0.031	0.79	Nylon	Natural
FWR-4-062	0.102	2.59	17/64	0.266	6.75	0.156	3.96	0.062	1.57	Nylon	Natural
FWR-6-032	0.128	3.25	21/64	0.328	8.33	0.198	5.03	0.031	0.79	Nylon	Natural
FWR-6-062	0.128	3.25	21/64	0.328	8.33	0.198	5.03	0.062	1.57	Nylon	Natural
FWR-8-032	0.152	3.86	25/64	0.391	9.92	0.235	5.97	0.031	0.79	Nylon	Natural
FWR-8-062	0.152	3.86	25/64	0.391	9.92	0.235	5.97	0.062	1.57	Nylon	Natural
FWR-10-032	0.177	4.50	29/64	0.453	11.51	0.277	7.04	0.031	0.79	Nylon	Natural
FWR-10-062	0.177	4.50	29/64	0.453	11.51	0.277	7.04	0.062	1.57	Nylon	Natural
FWR-250-032	0.234	5.94	19/32	0.594	15.08	0.375	9.53	0.031	0.79	Nylon	Natural
FWR-250-062	0.234	5.94	19/32	0.594	15.08	0.375	9.53	0.062	1.57	Nylon	Natural
FWR-312-032	0.292	7.42	47/64	0.734	18.65	0.470	11.94	0.031	0.79	Nylon	Natural
FWR-312-062	0.292	7.42	47/64	0.734	18.65	0.470	11.94	0.062	1.57	Nylon	Natural

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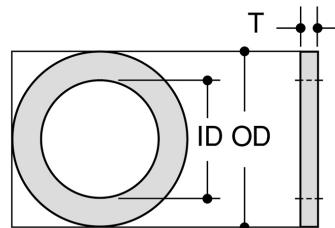
FWR-375-032	0.350	8.89	57/64	0.891	22.62	0.564	14.33	0.031	0.79	Nylon	Natural
FWR-375-062	0.350	8.89	57/64	0.891	22.62	0.564	14.33	0.062	1.57	Nylon	Natural
FWR-437-032	0.410	10.41	1-1/32	1.031	26.19	0.570	14.48	0.031	0.79	Nylon	Natural
FWR-437-062	0.410	10.41	1-1/32	1.031	26.19	0.570	14.48	0.062	1.57	Nylon	Natural
FWR-500-032	0.468	11.89	1-1/8	1.125	28.58	0.690	17.53	0.031	0.79	Nylon	Natural
FWR-500-062	0.468	11.89	1-1/8	1.125	28.58	0.690	17.53	0.062	1.57	Nylon	Natural

Minimum order 1000.

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Seal, insulate, absorb shock and vibration. They prevent galling and marring, and may also be used as spacers, guides, bearings, bushings, etc.

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Part No.	I.D.		O.D.		Thickness		Material	Colour
	mm	in	mm	in	mm	in		
MFW 2	2.15	0.085	5.00	0.197	0.80	0.031	Nylon	Natural
MFW 2.5	2.65	0.104	5.60	0.220	0.80	0.031	Nylon	Natural
MFW 3	3.20	0.125	8.00	0.315	0.80	0.031	Nylon	Natural
MFW 3.5	3.70	0.146	8.00	0.315	0.80	0.031	Nylon	Natural
MFW 4	4.30	0.169	9.00	0.354	0.80	0.031	Nylon	Natural
MFW 5	5.30	0.208	11.00	0.433	1.00	0.040	Nylon	Natural
MFW 6	6.40	0.252	12.00	0.472	1.50	0.060	Nylon	Natural
MFW 8	8.40	0.330	18.00	0.709	2.00	0.080	Nylon	Natural
MFW 10	10.50	0.413	22.00	0.866	2.50	0.098	Nylon	Natural

Minimum order 1000.

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