

WASHER



WASHER

O-Ring Master

GMORS O-Ring Master is the completed tool for standard rubber seal sizes.

When you use this APP, you don't need to have internet and catalog.

Except O-Ring sizes, it also includes the search functions of X-Ring and Back-Up Ring.

Otherwise, you can also use O-Ring Housing to choose suitable O-Ring in your application.

Material Master

GMORS Material Master give you the materials recommendation for your O-Ring application, based on the working temperature and medium of working environment. We provide thousand kinds of environment condition for compatibility evaluation. In addition, GMORS provide certified rubber compounds for various international standards, such as NSF61, WRAS, ACS, KTW, W-270, Din EN549, UL157, API 6A, NORSOK M-710, TOTAL EP PVV 142 and NACE TM0297.

Please email us for further information.



Android



iOS



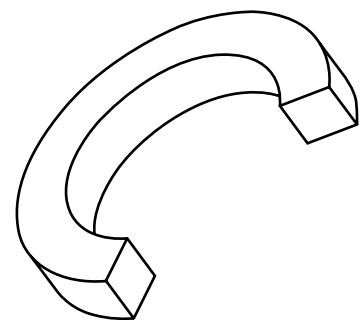
Android



iOS



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About GMORS

GMORS- SEALS TO YOUR HEART !

GMORS Rubber- A company moving forward with continuous improvements. Servicing in Rubber industry for all kinds of application to fulfill a better world.

Welcome to GMORS Rubber!

Since 1981, GMORS has served as the leading rubber component manufacturer in Taiwan. Known for innovation and continuous improvements, GMORS products have been approved for industries of Automotive, Semi-conductor, Medical, Aerospace, Drinking Water, Food & Drug equipment, Sanitary and various industrial grades.

Marching into the 21th century, GMORS Rubber's commitment is to satisfy all industries with the optimum combination of competitive price, high quality and fast service. Our goal is to be your best global partner on rubber components.



Product Offerings

- O-Rings
- X-Rings
- Back-Up Rings
- U-Packings
- V-Seals
- Special Packing Series
- Wear Rings
- Bonded Seals
- Valve Seals
- Wiper Seals
- Hydraulic Seals
- Pneumatic Seals



Approved

Manufacturing Process System

- AS9100D (Aerospace industry approved)
- IATF 16949:2016
- ISO 9001:2015
- ISO 13485:2016 (medical industry non-implantable approved)
- ISO 14001:2015
- ISO 45001:2018
- TAF Approved In-House Lab with Integrated Equipment



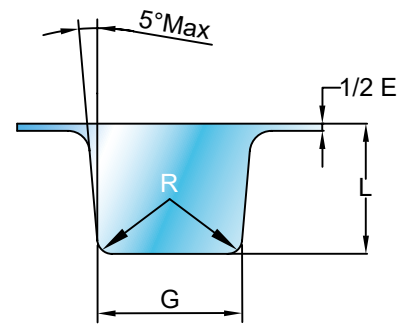
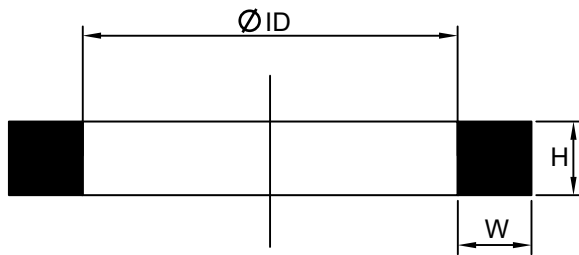
Material Certification

- | | |
|--|---|
| <ul style="list-style-type: none"> ○ NSF 61 (USA Drinking Water) ○ NSF 42 (USA Drinking Water) ○ WRAS (UK Drinking Water) ○ ACS (France Drinking Water) ○ W-270 (Germany Drinking Water) ○ KTW (Germany Drinking Water) ○ AS/NZS 4020 (Australian Drinking Water) ○ USP VI (USA Biological Reactivity Test) ○ UL 157 (Automotive, Gasoline) | <ul style="list-style-type: none"> ○ UL 1238 (Flammable Liquid Dispensing Devices) ○ API 6A (H2S Sour Gas Resistance) ○ DIN EN 549 (Pipes, Gas Appliances) ○ NORSOK M-710 (ISO 23936) (RGD Material Certified) ○ NACE TM0297 (RGD Material Certified) ○ Total EP PVV 142 (Rapid Gas Decompression) ○ ROHS 3 EU Directive 2015/863/EU ○ REACH SVHC ○ ADI FREE |
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- | | | |
|--|---|--|
| <ul style="list-style-type: none"> ○ General Industry ○ Automotive ○ Semi-conductor ○ Drinking Water | <ul style="list-style-type: none"> ○ Food ○ Hydraulic & Pneumatic ○ Aerospace ○ Oil & Gas | <ul style="list-style-type: none"> ○ Renewable Energy ○ Medical ○ Agriculture |
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Washer Design Reference



Washer Design Reference

Design- For Industrial Washer Static Seal Glands

Washer Size AS568	W Cross-Section	H Thickness	L Gland Depth	1/2E Groove Gap	G Gland Width	R Groove Radius
	Actual	Actual				
005 through 050	.066 $\pm .004$	.066 $\pm .004$	.053 to .057	0.004	.094 to .104	.015
105 through 178	.099 $\pm .004$	.099 $\pm .004$	.086 to .091	0.005	.141 to .151	.015
201 through 284	.134 $\pm .004$	.134 $\pm .004$	.118 to .124	0.006	.188 to .198	.025
309 through 395	.203 $\pm .005$	.203 $\pm .005$	.182 to .189	0.007	.281 to .291	.030
425 through 475	.265 $\pm .005$	.265 $\pm .005$	.233 to .243	0.010	.301 to .311	.030

Washer Standard Size

Washer Standard Size

Washer Size	MEASUREMENTS IN MILLIMETERS						MEASUREMENTS IN INCHES					
	ID	±	W	±	H	±	ID	±	W	±	H	±
W0005	2.57	0.13	1.68	0.08	1.68	0.08	0.101	0.005	0.066	0.003	0.066	0.003
W0006	2.90						0.114					
W0007	3.68						0.145					
W0008	4.47						0.176					
W0009	5.28						0.208					
W0010	6.07	0.13	1.68	0.10	1.68	0.08	0.239	0.005	0.066	0.004	0.066	0.003
W0011	7.65						0.301					
W0012	9.25						0.364					
W0013	10.82						0.426					
W0014	12.42						0.489					
W0015	14.00	0.18	1.68	0.10	1.68	0.08	0.551	0.007	0.066	0.004	0.066	0.003
W0016	15.60						0.614					
W0017	17.17						0.676					
W0018	18.77						0.739					
W0019	20.35	0.23	1.68	0.10	1.68	0.08	0.801	0.009	0.066	0.004	0.066	0.003
W0020	21.95						0.864					
W0021	23.52						0.926					
W0022	25.12						0.989					
W0023	26.70	0.25	1.68	0.10	1.68	0.08	1.051	0.010	0.066	0.004	0.066	0.003
W0024	28.30						1.114					
W0025	29.87						1.176					
W0026	31.47	0.28	1.68	0.10	1.68	0.08	1.239	0.011	0.066	0.004	0.066	0.003
W0027	33.05						1.301					
W0028	34.65						1.364					
W0029	37.82	0.33	1.68	0.10	1.68	0.08	1.489	0.013	0.066	0.004	0.066	0.003
W0030	41.00						1.614					
W0031	44.17						1.739					
W0032	47.35	0.38	1.68	0.10	1.68	0.08	1.864	0.015	0.066	0.004	0.066	0.003
W0033	50.52						1.989					
W0034	53.70						2.114					
W0035	56.87	0.46	1.68	0.10	1.68	0.08	2.239	0.018	0.066	0.004	0.066	0.003
W0036	60.05						2.364					
W0037	63.22						2.489					
W0038	66.40						2.614					
W0039	69.57	0.51	1.68	0.10	1.68	0.08	2.739	0.020	0.066	0.004	0.066	0.003
W0040	72.75						2.864					
W0041	75.92						2.989					
W0042	82.27	0.61	1.68	0.10	1.68	0.08	3.239	0.024	0.066	0.004	0.066	0.003
W0043	88.62						3.489					
W0044	94.97						3.739					
W0045	101.32	0.69	1.68	0.10	1.68	0.08	3.989	0.027	0.066	0.004	0.066	0.003
W0046	107.67						4.239					
W0047	114.02	0.76	1.68	0.10	1.68	0.08	4.489	0.030	0.066	0.004	0.066	0.003
W0048	120.37						4.739					
W0049	126.72						4.989					
W0050	133.07	0.94	1.68	0.10	1.68	0.08	5.239	0.037	0.066	0.004	0.066	0.003
Washer Size	ID	±	W	±	H	±	ID	±	W	±	H	±

Washer Standard Size

Washer Standard Size

Washer Standard Size

Washer Size	MEASUREMENTS IN MILLIMETERS						MEASUREMENTS IN INCHES					
	ID	±	W	±	H	±	ID	±	W	±	H	±
W0105	3.63						0.143					
W0106	4.42						0.174					
W0107	5.23						0.206					
W0108	6.02						0.237					
W0109	7.59	0.13	2.51	0.10	2.51	0.08	0.299	0.005	0.099	0.004	0.099	0.003
W0110	9.19						0.362					
W0111	10.77						0.424					
W0112	12.37						0.487					
W0113	13.94	0.18	2.51	0.10	2.51	0.08	0.549	0.007	0.099	0.004	0.099	0.003
W0114	15.54						0.612					
W0115	17.12	0.23	2.51	0.10	2.51	0.08	0.674	0.009	0.099	0.004	0.099	0.003
W0116	18.72						0.737					
W0117	20.30						0.799					
W0118	21.89						0.862					
W0119	23.47						0.924					
W0120	25.07	0.25	2.51	0.10	2.51	0.08	0.987	0.010	0.099	0.004	0.099	0.003
W0121	26.64						1.049					
W0122	28.24						1.112					
W0123	29.82						1.174					
W0124	31.42						1.237					
W0125	32.99						1.299					
W0126	34.59	0.30	2.51	0.10	2.51	0.08	1.362	0.012	0.099	0.004	0.099	0.003
W0127	36.17						1.424					
W0128	37.77						1.487					
W0129	39.34						1.549					
W0130	40.94						1.612					
W0131	42.52						1.674					
W0132	44.12	0.38	2.51	0.10	2.51	0.08	1.737	0.015	0.099	0.004	0.099	0.003
W0133	45.69						1.799					
W0134	47.29						1.862					
W0135	48.90						1.925					
W0136	50.47						1.987					
W0137	52.07						2.050					
W0138	53.64	0.43	2.51	0.10	2.51	0.08	2.112	0.017	0.099	0.004	0.099	0.003
W0139	55.25						2.175					
W0140	56.82						2.237					
W0141	58.42						2.300					
W0142	59.99						2.362					
W0143	61.60						2.425					
W0144	63.17	0.51	2.51	0.10	2.51	0.08	2.487	0.020	0.099	0.004	0.099	0.003
W0145	64.77						2.550					
W0146	66.34						2.612					
W0147	67.95						2.675					
W0148	69.52	0.56	2.51	0.10	2.51	0.08	2.737	0.022	0.099	0.004	0.099	0.003
W0149	71.12						2.800					
Washer Size	ID	±	W	±	H	±	ID	±	W	±	H	±

Washer Standard Size

Washer Size	MEASUREMENTS IN MILLIMETERS						MEASUREMENTS IN INCHES					
	ID	±	W	±	H	±	ID	±	W	±	H	±
W0150	72.69	0.56	2.51	0.10	2.51	0.08	2.862	0.022	0.099	0.004	0.099	0.003
W0151	75.87						2.987					
W0152	82.22	0.61	2.51	0.10	2.51	0.08	3.237	0.024	0.099	0.004	0.099	0.003
W0153	88.57						3.487					
W0154	94.92						3.737					
W0155	101.27	0.71	2.51	0.10	2.51	0.08	3.987	0.028	0.099	0.004	0.099	0.003
W0156	107.62						4.237					
W0157	113.97	0.76	2.51	0.10	2.51	0.08	4.487	0.030	0.099	0.004	0.099	0.003
W0158	120.32						4.737					
W0159	126.67						4.987					
W0160	133.02						5.237					
W0161	139.37	0.89	2.51	0.10	2.51	0.08	5.487	0.035	0.099	0.004	0.099	0.003
W0162	145.72						5.737					
W0163	152.07						5.987					
W0164	158.42						6.237					
W0165	164.77						6.487					
W0166	171.12	1.02	2.51	0.10	2.51	0.08	6.737	0.040	0.099	0.004	0.099	0.003
W0167	177.47						6.987					
W0168	183.82						7.237					
W0169	190.17						7.487					
W0170	196.52	1.14	2.51	0.10	2.51	0.08	7.737	0.045	0.099	0.004	0.099	0.003
W0171	202.87						7.987					
W0172	209.22						8.237					
W0173	215.57						8.487					
W0174	221.92	1.27	2.51	0.10	2.51	0.08	8.737	0.050	0.099	0.004	0.099	0.003
W0175	228.27						8.987					
W0176	234.62						9.237					
W0177	240.97	1.40	2.51	0.10	2.51	0.08	9.487	0.055	0.099	0.004	0.099	0.003
W0178	247.32						9.737					
W0201	4.34						0.171					
W0202	5.94						0.234					
W0203	7.52						0.296					
W0204	9.12	0.13	3.40	0.10	3.40	0.10	0.359	0.005	0.134	0.004	0.134	0.004
W0205	10.69						0.421					
W0206	12.29						0.484					
W0207	13.87	0.18	3.40	0.10	3.40	0.10	0.546	0.007	0.134	0.004	0.134	0.004
W0208	15.47						0.609					
W0209	17.04	0.23	3.40	0.10	3.40	0.10	0.671	0.009	0.134	0.004	0.134	0.004
W0210	18.64						0.734					
W0211	20.22						0.796					
W0212	21.82						0.859					
W0213	23.39	0.25	3.40	0.10	3.40	0.10	0.921	0.010	0.134	0.004	0.134	0.004
W0214	24.99						0.984					
W0215	26.57						1.046					
W0216	28.17	0.30	3.40	0.10	3.40	0.10	1.109	0.012	0.134	0.004	0.134	0.004
Washer Size	ID	±	W	±	H	±	ID	±	W	±	H	±

Washer Standard Size

Washer Standard Size

Washer Size	MEASUREMENTS IN MILLIMETERS						MEASUREMENTS IN INCHES					
	ID	±	W	±	H	±	ID	±	W	±	H	±
W0217	29.74						1.171					
W0218	31.34						1.234					
W0219	32.92	0.30	3.40	0.10	3.40	0.10	1.296	0.012	0.134	0.004	0.134	0.004
W0220	34.52						1.359					
W0221	36.09						1.421					
W0222	37.69						1.484					
W0223	40.87	0.38	3.40	0.10	3.40	0.10	1.609	0.015	0.134	0.004	0.134	0.004
W0224	44.04						1.734					
W0225	47.22						1.859					
W0226	50.39	0.46	3.40	0.10	3.40	0.10	1.984	0.018	0.134	0.004	0.134	0.004
W0227	53.57						2.109					
W0228	56.74						2.234					
W0229	59.92	0.51	3.40	0.10	3.40	0.10	2.359	0.020	0.134	0.004	0.134	0.004
W0230	63.09						2.484					
W0231	66.27						2.609					
W0232	69.44						2.734					
W0233	72.62						2.859					
W0234	75.79						2.984					
W0235	78.97	0.61	3.40	0.10	3.40	0.10	3.109	0.024	0.134	0.004	0.134	0.004
W0236	82.14						3.234					
W0237	85.32						3.359					
W0238	88.49						3.484					
W0239	91.67						3.609					
W0240	94.84						3.734					
W0241	98.02	0.71	3.40	0.10	3.40	0.10	3.859	0.028	0.134	0.004	0.134	0.004
W0242	101.19						3.984					
W0243	104.37						4.109					
W0244	107.54						4.234					
W0245	110.72						4.359					
W0246	113.89	0.76	3.40	0.10	3.40	0.10	4.484	0.030	0.134	0.004	0.134	0.004
W0247	117.07						4.609					
W0248	120.24						4.734					
W0249	123.42						4.859					
W0250	126.59						4.984					
W0251	129.77						5.109					
W0252	132.94						5.234					
W0253	136.12	0.89	3.40	0.10	3.40	0.10	5.359	0.035	0.134	0.004	0.134	0.004
W0254	139.29						5.484					
W0255	142.47						5.609					
W0256	145.64						5.734					
W0257	148.82						5.859					
W0258	151.99						5.984					
W0259	158.34	1.02	3.40	0.10	3.40	0.10	6.234	0.040	0.134	0.004	0.134	0.004
W0260	164.69						6.484					
W0261	171.04						6.734					
Washer Size	ID	±	W	±	H	±	ID	±	W	±	H	±

Washer Standard Size

Washer Size	MEASUREMENTS IN MILLIMETERS						MEASUREMENTS IN INCHES					
	ID	±	W	±	H	±	ID	±	W	±	H	±
W0262	177.39	1.02	3.40	0.10	3.40	0.10	6.984	0.040	0.134	0.004	0.134	0.004
W0263	183.74						7.234					
W0264	190.09	1.14	3.40	0.10	3.40	0.10	7.484	0.045	0.134	0.004	0.134	0.004
W0265	196.44						7.734					
W0266	202.79						7.984					
W0267	209.14						8.234					
W0268	215.49	1.27	3.40	0.10	3.40	0.10	8.484	0.050	0.134	0.004	0.134	0.004
W0269	221.84						8.734					
W0270	228.19						8.984					
W0271	234.54						9.234					
W0272	240.89						9.484					
W0273	247.24	1.40	3.40	0.10	3.40	0.10	9.734	0.055	0.134	0.004	0.134	0.004
W0274	253.59						9.984					
W0275	266.29						10.484					
W0276	278.99						10.984					
W0277	291.69						11.484					
W0278	304.39	1.65	3.40	0.10	3.40	0.10	11.984	0.065	0.134	0.004	0.134	0.004
W0279	329.79						12.984					
W0280	355.19						13.984					
W0281	380.59						14.984					
W0282	405.26	1.91	3.40	0.10	3.40	0.10	15.955	0.075	0.134	0.004	0.134	0.004
W0283	430.66	2.03	3.40	0.10	3.40	0.10	16.955	0.080	0.134	0.004	0.134	0.004
W0284	456.06	2.16	3.40	0.10	3.40	0.10	17.955	0.085	0.134	0.004	0.134	0.004
W0309	10.46	0.13	5.16	0.13	5.16	0.13	0.412	0.005	0.203	0.005	0.203	0.005
W0310	12.07						0.475					
W0311	13.64	0.18	5.16	0.13	5.16	0.13	0.537	0.007	0.203	0.005	0.203	0.005
W0312	15.24						0.600					
W0313	16.81	0.23	5.16	0.13	5.16	0.13	0.662	0.009	0.203	0.005	0.203	0.005
W0314	18.42						0.725					
W0315	19.99						0.787					
W0316	21.59	0.25	5.16	0.13	5.16	0.13	0.850	0.010	0.203	0.005	0.203	0.005
W0317	23.16						0.912					
W0318	24.77						0.975					
W0319	26.34						1.037					
W0320	27.94						1.100					
W0321	29.51						1.162					
W0322	31.12	0.30	5.16	0.13	5.16	0.13	1.225	0.012	0.203	0.005	0.203	0.005
W0323	32.69						1.287					
W0324	34.29						1.350					
W0325	37.47						1.475					
W0326	40.64	0.38	5.16	0.13	5.16	0.13	1.600	0.015	0.203	0.005	0.203	0.005
W0327	43.82						1.725					
W0328	46.99						1.850					
W0329	50.17	0.46	5.16	0.13	5.16	0.13	1.975	0.018	0.203	0.005	0.203	0.005
W0330	53.34						2.100					
Washer Size	ID	±	W	±	H	±	ID	±	W	±	H	±

Washer Standard Size

Washer Standard Size

Washer Size	MEASUREMENTS IN MILLIMETERS						MEASUREMENTS IN INCHES					
	ID	±	W	±	H	±	ID	±	W	±	H	±
W0331	56.52	0.46	5.16	0.13	5.16	0.13	2.225	0.018	0.203	0.005	0.203	0.005
W0332	59.69						2.350					
W0333	62.87						2.475					
W0334	66.04	0.51	5.16	0.13	5.16	0.13	2.600	0.020	0.203	0.005	0.203	0.005
W0335	69.22						2.725					
W0336	72.39						2.850					
W0337	75.57	0.61	5.16	0.13	5.16	0.13	2.975	0.024	0.203	0.005	0.203	0.005
W0338	78.74						3.100					
W0339	81.92						3.225					
W0340	85.09	0.71	5.16	0.13	5.16	0.13	3.350	0.028	0.203	0.005	0.203	0.005
W0341	88.27						3.475					
W0342	91.44						3.600					
W0343	94.62	0.76	5.16	0.13	5.16	0.13	3.725	0.030	0.203	0.005	0.203	0.005
W0344	97.79						3.850					
W0345	100.97						3.975					
W0346	104.14	0.94	5.16	0.13	5.16	0.13	4.100	0.037	0.203	0.005	0.203	0.005
W0347	107.32						4.225					
W0348	110.49						4.350					
W0349	113.67	1.02	5.16	0.13	5.16	0.13	4.475	0.040	0.203	0.005	0.203	0.005
W0350	116.84						4.600					
W0351	120.02						4.725					
W0352	123.19	1.14	5.16	0.13	5.16	0.13	4.850	0.045	0.203	0.005	0.203	0.005
W0353	126.37						4.975					
W0354	129.54						5.100					
W0355	132.72	1.27	5.16	0.13	5.16	0.13	5.225	0.050	0.203	0.005	0.203	0.005
W0356	135.89						5.350					
W0357	139.07						5.475					
W0358	142.24	1.40	5.16	0.13	5.16	0.13	5.600	0.055	0.203	0.005	0.203	0.005
W0359	145.42						5.725					
W0360	148.59						5.850					
W0361	151.77	1.40	5.16	0.13	5.16	0.13	5.975	0.055	0.203	0.005	0.203	0.005
W0362	158.12						6.225					
W0363	164.47						6.475					
W0364	170.82	1.40	5.16	0.13	5.16	0.13	6.725	0.055	0.203	0.005	0.203	0.005
W0365	177.17						6.975					
W0366	183.52						7.225					
W0367	189.87	1.40	5.16	0.13	5.16	0.13	7.475	0.055	0.203	0.005	0.203	0.005
W0368	196.22						7.725					
W0369	202.57						7.975					
W0370	208.92	1.40	5.16	0.13	5.16	0.13	8.225	0.055	0.203	0.005	0.203	0.005
W0371	215.27						8.475					
W0372	221.62						8.725					
W0373	227.97	1.40	5.16	0.13	5.16	0.13	8.975	0.055	0.203	0.005	0.203	0.005
W0374	234.32						9.225					
W0375	240.67						9.475					
Washer Size	ID	±	W	±	H	±	ID	±	W	±	H	±

Washer Standard Size

Washer Size	MEASUREMENTS IN MILLIMETERS						MEASUREMENTS IN INCHES					
	ID	±	W	±	H	±	ID	±	W	±	H	±
W0376	247.02	1.40	5.16	0.13	5.16	0.13	9.725	0.055	0.203	0.005	0.203	0.005
W0377	253.37						9.975					
W0378	266.07	1.52	5.16	0.13	5.16	0.13	10.475	0.060	0.203	0.005	0.203	0.005
W0379	278.77						10.975					
W0380	291.47	1.65	5.16	0.13	5.16	0.13	11.475	0.065	0.203	0.005	0.203	0.005
W0381	304.17						11.975					
W0382	329.57	1.78	5.16	0.13	5.16	0.13	12.975	0.070	0.203	0.005	0.203	0.005
W0383	354.97						13.975					
W0384	380.37	1.91	5.16	0.13	5.16	0.13	14.975	0.075	0.203	0.005	0.203	0.005
W0385	405.26						15.955					
W0386	430.66	2.03	5.16	0.13	5.16	0.13	16.955	0.080	0.203	0.005	0.203	0.005
W0387	456.06						17.955					
W0388	481.41	2.16	5.16	0.13	5.16	0.13	18.953	0.085	0.203	0.005	0.203	0.005
W0389	506.81						19.953					
W0390	532.21	2.29	5.16	0.13	5.16	0.13	20.953	0.090	0.203	0.005	0.203	0.005
W0391	557.61						21.953					
W0392	582.68	2.41	5.16	0.13	5.16	0.13	22.940	0.095	0.203	0.005	0.203	0.005
W0393	608.08						23.940					
W0394	633.48	2.54	5.16	0.13	5.16	0.13	24.940	0.100	0.203	0.005	0.203	0.005
W0395	658.88						25.940					
W0425	113.67	0.84	6.73	0.15	6.73	0.15	4.475	0.033	0.265	0.006	0.265	0.006
W0426	116.84						4.600					
W0427	120.02	0.94	6.73	0.15	6.73	0.15	4.725	0.037	0.265	0.006	0.265	0.006
W0428	123.19						4.850					
W0429	126.37	1.02	6.73	0.15	6.73	0.15	4.975	0.040	0.265	0.006	0.265	0.006
W0430	129.54						5.100					
W0431	132.72	1.14	6.73	0.15	6.73	0.15	5.225	0.045	0.265	0.006	0.265	0.006
W0432	135.89						5.350					
W0433	139.07	1.40	6.73	0.15	6.73	0.15	5.475	0.055	0.265	0.006	0.265	0.006
W0434	142.24						5.600					
W0435	145.42	1.40	6.73	0.15	6.73	0.15	5.725	0.055	0.265	0.006	0.265	0.006
W0436	148.59						5.850					
W0437	151.77	1.40	6.73	0.15	6.73	0.15	5.975	0.055	0.265	0.006	0.265	0.006
W0438	158.12						6.225					
W0439	164.47	1.40	6.73	0.15	6.73	0.15	6.475	0.055	0.265	0.006	0.265	0.006
W0440	170.82						6.475					
W0441	177.17	1.40	6.73	0.15	6.73	0.15	6.725	0.055	0.265	0.006	0.265	0.006
W0442	183.52						6.975					
W0443	189.87	1.40	6.73	0.15	6.73	0.15	7.225	0.055	0.265	0.006	0.265	0.006
W0444	196.22						7.475					
W0445	202.57	1.40	6.73	0.15	6.73	0.15	7.725	0.055	0.265	0.006	0.265	0.006
W0446	215.27						7.975					
W0447	227.97	1.40	6.73	0.15	6.73	0.15	8.475	0.055	0.265	0.006	0.265	0.006
W0448	240.67						8.975					
W0449	253.37	1.40	6.73	0.15	6.73	0.15	9.475	0.055	0.265	0.006	0.265	0.006
W0449	253.37						9.975					
Washer Size	ID	±	W	±	H	±	ID	±	W	±	H	±

Washer Standard Size

Washer Standard Size

Washer Size	MEASUREMENTS IN MILLIMETERS						MEASUREMENTS IN INCHES					
	ID	±	W	±	H	±	ID	±	W	±	H	±
W0450	266.07						10.475					
W0451	278.77						10.975					
W0452	291.47	1.52	6.73	0.15	6.73	0.15	11.475	0.060	0.265	0.006	0.265	0.006
W0453	304.17						11.975					
W0454	316.87						12.475					
W0455	329.57						12.975					
W0456	342.27						13.475					
W0457	354.97						13.975					
W0458	367.67	1.78	6.73	0.15	6.73	0.15	14.475	0.070	0.265	0.006	0.265	0.006
W0459	380.37						14.975					
W0460	393.07						15.475					
W0461	405.26	1.91	6.73	0.15	6.73	0.15	15.955	0.075	0.265	0.006	0.265	0.006
W0462	417.96						16.455					
W0463	430.66	2.03	6.73	0.15	6.73	0.15	16.955	0.080	0.265	0.006	0.265	0.006
W0464	443.36						17.455					
W0465	456.06	2.16	6.73	0.15	6.73	0.15	17.955	0.085	0.265	0.006	0.265	0.006
W0466	468.76						18.455					
W0467	481.46	2.29	6.73	0.15	6.73	0.15	18.955	0.090	0.265	0.006	0.265	0.006
W0468	494.16						19.455					
W0469	506.86	2.41	6.73	0.15	6.73	0.15	19.955	0.095	0.265	0.006	0.265	0.006
W0470	532.26						20.955					
W0471	557.66	2.54	6.73	0.15	6.73	0.15	21.955	0.100	0.265	0.006	0.265	0.006
W0472	582.68	2.67	6.73	0.15	6.73	0.15	22.940	0.105	0.265	0.006	0.265	0.006
W0473	608.08	2.79	6.73	0.15	6.73	0.15	23.940	0.110	0.265	0.006	0.265	0.006
W0474	633.48	2.92	6.73	0.15	6.73	0.15	24.940	0.115	0.265	0.006	0.265	0.006
W0475	658.88	3.05	6.73	0.15	6.73	0.15	25.940	0.120	0.265	0.006	0.265	0.006
Washer Size	ID	±	W	±	H	±	ID	±	W	±	H	±

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