

Mechanical properties W/MG series (Thermoplastic composite bushes)



Min / Max operating temperature	-40°C to +130 °C
Tensile strength	210 MPa
Compressive strength	205 MPa (80N/mm ²)
Maximum load	80 MPa
Shore D hardness	80
Coefficient of friction	0.08 – 0.15
Material nominal density	1.45 g/cm ³
Modulus of elasticity	7800 MPa
Recommended shaft finish	Ra ≤ 0.4 μm (N5)
Recommended Shaft Hardness	HRC60
Maximum sliding velocity - constant	1 m/s
Maximum sliding velocity - short period (Rotational)	2 m/s
Maximum sliding velocity (Linear)	4 m/s



The company to turn to



LRQ 0960929

Material

Thermoplastic with Fibres and solid lubricants

PA66 + GF + PTFE

Recommended Fitting Data for W/MG plain and flanged bushes

(Dimensions and tolerances to Din 1494)

Housing	H7
Shaft Size	h9
Bore of bush once fitted	E10
Flange outside diameter	d13
Flange thickness	+0/-0.14

Recommended Fitting Data for W/MG washers

Shaft Size	h9
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Fitting Guidelines

Always use a fitting pin

Chamfer lead in on housing to assist with assembly

RoHS compliant

Suitable for food industry machinery

All testing carried out at 20°C

All dimensions and clearances are based on steel housings being used, Small allowances must be made for softer housing materials such as Aluminium.

E. & O.E.



The company to turn to



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W/MG Plain Plastic Bearings

Reference	Bore	Outside Diameter	Length (L)
W/MG 0103 x L	1	3	02
W/MG 0203 x L	2	3	03
W/MG 02504 x L	2.5	4	05
W/MG 0304 x L	3	4	03 05 06
W/MG 0405 x L	4	5	04 06
W/MG 04.5 06 x L	4.5	6	08
W/MG 0407 x L	4	7	05
W/MG 0506 x L	5	6	05 07
W/MG 0507 x L	5	7	05 08 10
W/MG 0607 x L	6	7	06 17.5
W/MG 0608 x L	6	8	04 05 05.5 06 08 09 10 11 12 13 15 25
W/MG 0708 x L	7	8	10 19
W/MG 0709 x L	7	9	08 09 10 12
W/MG 0809 x L	8	9	05 06 08 12
W/MG 0810 x L	8	10	05 06 07 08 10 12 13 15 16 20 22
W/MG 0911 x L	9	11	06
W/MG 1011 x L	10	11	06 10 25
W/MG 1012 x L	10	12	04 04.5 05 06 07 08 09 10 12 14 15 17 20
W/MG 1213 x L	12	13	12 15
W/MG 1214 x L	12	14	04 05 06 08 10 12 14 15 20 25
W/MG 1215 x L	12	15	06 22
W/MG 1216 x L	12	16	10 20
W/MG 1315 x L	13	15	070 075
W/MG 1315 x L	13	15	10 15 20 25
W/MG 1416 x L	14	16	03 06 08 10 12 15 20 25
W/MG 1516 x L	15	16	15
W/MG 1517 x L	15	17	04 10 12 15 20 25
W/MG 1618 x L	16	18	05.5 08 10 12 13.5 15 20 25 30 50
W/MG 1820 x L	18	20	10 12 15 20 25 45
W/MG 1922 x L	19	22	06 28 35
W/MG 2021 x L	20	21	20
W/MG 2022 x L	20	22	15 20 22 30
W/MG 2023 x L	20	23	10 15 20 23 24 25 30
W/MG 2224 x L	22	24	10 15 17 20 30
W/MG 2225 x L	22	25	15 20 25 30
W/MG 2427 x L	24	27	06 15 20 25 30
W/MG 2526 x L	25	26	25
W/MG 2528 x L	25	28	15 20 24 25 30 35 50
W/MG 2630 x L	26	30	16
W/MG 2730 x L	27	30	05
W/MG 2832 x L	28	32	10.5 12 15 20 23 25 30
W/MG 3031 x L	30	31	12 30
W/MG 3034 x L	30	34	15 20 24 25 30 35 40 52.5
W/MG 3236 x L	32	36	30 40
W/MG 3539 x L	35	39	14 20 25 30 40 50
W/MG 3640 x L	36	40	20
W/MG 3741 x L	37	41	20
W/MG 4044 x L	40	44	10 16 20 30 40 50

Larger plain sizes available data upon request

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W/MFG Flanged Plastic Bearings

Reference	Bore	Outside Diameter	Length (L)	Flange Outside diameter	Flange Thickness
W/MFG 0304-02 x L	3	4	02	7.5	0.5
W/MFG 03040-277-05 x L	3	4	02 0275 03 05	7	0.75
W/MFG 0405-03 x L	4	5	03 04 06	9.5	0.75
W/MFG 04050-04 x L	4	5	04 06	9.5	0.75
W/MFG 040508-10 x L	4	5	10	8	1
W/MFG 0506-035 x L	5	6	035 04 05 06 15	10	0.5
W/MFG 0507-03 x L	5	7	03 04 05 30	11	1
W/MFG 050709-05 x L	5	7	05	9.5	1
W/MFG 050715-04 x L	5	7	04	15	1
W/MFG 0607-024 x L	6	7	024	11	0.5
W/MFG 0607-045 x L	6	7	045 06 10	11	0.5
W/MFG 0607-06 x L	6	7	06 10	11	0.5
W/MFG 0608-04 x L	6	8	025 04 048 05 06 07 08 10 25 35	12	1
W/MFG 060814-12 x L	6	8	12 028	14	1
W/MFG 0708-03 x L	7	8	03 08	12	0.5
W/MFG 0709-06 x L	7	9	06 10 12	15	1
W/MFG 070919-10 x L	7	9	10	19	1
W/MFG 0809-03 x L	8	9	03 055 08 12	15	0.5
W/MFG 0810-03 x L	8	10	03 04 0 065 07 09 10 15 25 30	15	1
W/MFG 081012-125 x L	8	10	125	12	1
W/MFG 081013-08 x L	8	10	8	13	1
W/MFG 081014-06 x L	8	10	06 08 10	14	1
W/MFG 081016-11 x L	8	10	11 155	16	1.5
W/MFG 081017-15 x L	8	10	15	17	1
W/MFG 0910-17 x L	9	10	065 17	15	0.5
W/MFG 1011-10 x L	10	11	026 044 10	15	0.5
W/MFG 1012-035 x L	10	12	035 04 05 06 07 09 10 12 15 17	18	1
W/MFG 101214-07 x L	10	12	07	14	1
W/MFG 101215-12 x L	10	12	06 09 12 15	16	1
W/MFG 1213-03 x L	12	13	03 12	17	0.5
W/MFG 1214-03 x L	12	14	03 06 07 09 10 11 12 15 17 20 24	20	1
W/MFG 121418-04 x L	12	14	04 08 10 12 15 20	18	1
W/MFG 1315-06 x L	13	15	06	22	1
W/MFG 1416-03 x L	14	16	03 04 06 08 10 12 17 21	22	1
W/MFG 1516-02 x L	15	16	02 025 03 15	20	0.5
W/MFG 1517-04 x L	15	17	04 045 05 09 12 17 20	23	1
W/MFG 151824-32 x L	15	18	32	24	1.5
W/MFG 1618-04 x L	16	18	04 06 09 12 17 21	24	1
W/MFG 1719-25 x L	17	19	09 25	25	1
W/MFG 1820-04 x L	18	20	04 06 09 11 12 17 22 30 32	26	1
W/MFG 182022-06 x L	18	20	6	22	1
W/MFG 1822-28 x L	18	22	28	26	2
W/MFG 2021-20 x L	20	21	20	25	0.5
W/MFG 2023-07 x L	20	23	07 11 16 21	30	1.5
W/MFG 202326-215 x L	20	23	21.5	26	1.5
W/MFG 202328-15 x L	20	23	15	28	1.5
W/MFG 222535-315 x L	22	25	315	35	1.5
W/MFG 2427-07 x L	24	27	07 10	32	1.5
W/MFG 2526-25 x L	25	26	25	30	0.5
W/MFG 2527-48 x L	25	27	48	32	1
W/MFG 2528-11 x L	25	28	11 16 21	35	1.5
W/MFG 2830-10 x L	28	30	10 36	36 35	1
W/MFG 283239-20 x L	28	32	20	39	2
W/MFG 3031-20 x L	30	31	20 30	36 35	0.5
W/MFG 3032-04 x L	30	32	04 12 17 22	37	1
W/MFG 3034-09 x L	30	34	09 16 20 26 37	42	2
W/MFG 3236-16 x L	32	36	16 26	40	2
W/MFG 3438-50-35 x L	34	38	35	50	2
W/MFG 3539-058 x L	35	39	058 07 16 26 36	47	2
W/MFG 3842-22 x L	38	42	22	54	2
W/MFG 4044-07 x L	40	44	07 14 20 30 40 50	52	2



W/MWG Thrust Washers

Reference	Bore	Outside Diameter	Washer Thickness	Location hole diameter (mm)
W/MWG 0509 x T	5	9	006	no location hole
W/MWG 0615 x T	6	15	015	no location hole
W/MWG 0620 x T	6	20	015	1.5
W/MWG 0713 x T	7	13	005	no location hole
W/MWG 0815 x T	8	15	005 (015 *)	1.5
W/MWG 0818 x T	8	18	010 (015 *)	1.5
W/MWG 0918 x T	9	18	015	1.5
W/MWG 1018 x T	10	18	010 02.0	no location hole
W/MWG 1224 x T	12	24	015	1.5
W/MWG 1420 x T	14	20	015	no location hole
W/MWG 1426 x T	14	26	015	2
W/MWG 1522 x T	15	22	008	no location hole
W/MWG 1524 x T	15	24	(015 *) 02.75	1.5
W/MWG 1630 x T	16	30	015	2
W/MWG 1832 x T	18	32	015	2
W/MWG 2036 x T	20	36	015	3
W/MWG 2238 x T	22	38	015	3
W/MWG 2442 x T	24	42	015	3
W/MWG 2644 x T	26	44	015	3
W/MWG 2835 x T	28	35	005	no location hole
W/MWG 2848 x T	28	48	015	4
W/MWG 3254 x T	32	54	015	4
W/MWG 3862 x T	38	62	015	4
W/MWG 4266 x T	42	66	015	4
W/MWG 4874 x T	48	74	020	4
W/MWG 5278 x T	52	78	020	4
W/MWG 6290 x T	62	90	020	4
W/MWG 6881 x T	68	81	020	no location hole

* denotes location hole is only standard in this washer thickness

Minimum order quantities and production lead times may apply to certain sizes