

MBA



Bearings - Thrust - Ball - Washers Only

Hardened thrust washers for thrust bearings - ungrooved. Match with thrust ball and retainer or roller type.

Stainless Steel Washers are hardened to HRC38.42.

Carbon Steel Washers are hardened to RC59.61.

<http://www.minibearings.com.au//categories/thrust+bearing/all/pics/>

<http://www.minibearings.com.au//categories/shafting/all/pics/>

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| Part Number | Nominal ID mm | Nominal OD mm | Description / Material | Nom. Thickness (B Max) mm | Shaft Pilot Diameter (S) mm | Diam. to Clear Washer OD (Dwc) mm |
|--------------------|---------------|---------------|--------------------------------|---------------------------|-----------------------------|-----------------------------------|
| | <i>inches</i> | <i>inches</i> | | <i>inches</i> | <i>inches</i> | <i>inches</i> |
| # ST-032-111-013-W | 3.18 | 11.13 | Washer Only - 410 Stainless | 1.27 | | |
| | <i>0.125</i> | <i>0.438</i> | | <i>0.050</i> | | |
| # T-032-111-013-W | 3.18 | 11.13 | Washer Only - Carbon Steel | 1.27 | | |
| | <i>0.125</i> | <i>0.438</i> | | <i>0.050</i> | | |
| # ST-048-127-013-W | 4.78 | 12.70 | Washer Only - 410 Stainless | 1.27 | | |
| | <i>0.188</i> | <i>0.500</i> | | <i>0.050</i> | | |

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| Part Number | Nominal ID mm | Nominal OD mm | Description / Material | Nom. Thickness (B Max) mm | Shaft Pilot Diameter (S) mm | Diam. to Clear Washer OD (Dwc) mm |
|--------------------|---------------|---------------|--------------------------------|------------------------------|--------------------------------|--------------------------------------|
| | <i>inches</i> | <i>inches</i> | | <i>inches</i> | <i>inches</i> | <i>inches</i> |
| # T-048-127-013-W | 4.78 | 12.70 | Washer Only - Carbon Steel | 1.27 | | |
| | <i>0.188</i> | <i>0.500</i> | | <i>0.050</i> | | |
| ST-050-120-013-W | 5.00 | 12.00 | Washer Only - 410 Stainless | 1.27 | | |
| | <i>0.197</i> | <i>0.472</i> | | <i>0.050</i> | | |
| # T-050-120-013-W | 5.00 | 12.00 | Washer Only - Carbon Steel | 1.27 | | |
| | <i>0.197</i> | <i>0.472</i> | | <i>0.050</i> | | |
| # ST-060-140-013-W | 6.00 | 14.00 | Washer Only - 410 Stainless | 1.27 | | |
| | <i>0.236</i> | <i>0.551</i> | | <i>0.050</i> | | |
| # T-060-140-013-W | 6.00 | 14.00 | Washer Only - Carbon Steel | 1.27 | | |
| | <i>0.236</i> | <i>0.551</i> | | <i>0.050</i> | | |
| # ST-064-143-013-W | 6.35 | 14.28 | Washer Only - 410 Stainless | 1.27 | | |
| | <i>0.250</i> | <i>0.562</i> | | <i>0.050</i> | | |
| # T-064-143-013-W | 6.35 | 14.28 | Washer Only - Carbon Steel | 1.27 | | |
| | <i>0.250</i> | <i>0.562</i> | | <i>0.050</i> | | |
| # ST-070-170-013-W | 7.00 | 17.00 | Washer Only - 410 Stainless | 1.27 | | |
| | <i>0.276</i> | <i>0.669</i> | | <i>0.050</i> | | |

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|--------------------|---------------|---------------|--------------------------------|------------------------------|--------------------------------|--------------------------------------|
| | <i>inches</i> | <i>inches</i> | | <i>inches</i> | <i>inches</i> | <i>inches</i> |
| # T-070-170-013-W | 7.00 | 17.00 | Washer Only - Carbon Steel | 1.27 | | |
| | <i>0.276</i> | <i>0.669</i> | | <i>0.050</i> | | |
| # ST-079-159-013-W | 7.93 | 15.88 | Washer Only - 410 Stainless | 1.27 | | |
| | <i>0.312</i> | <i>0.625</i> | | <i>0.050</i> | | |
| # T-079-159-013-W | 7.93 | 15.88 | Washer Only - Carbon Steel | 1.27 | | |
| | <i>0.312</i> | <i>0.625</i> | | <i>0.050</i> | | |
| ST-080-160-013-W | 8.00 | 16.00 | Washer Only - 410 Stainless | 1.27 | | |
| | <i>0.315</i> | <i>0.630</i> | | <i>0.050</i> | | |
| # T-080-160-013-W | 8.00 | 16.00 | Washer Only - Carbon Steel | 1.27 | | |
| | <i>0.315</i> | <i>0.630</i> | | <i>0.050</i> | | |
| T-095-206-016-W | 9.52 | 20.62 | Washer Only - Carbon Steel | 1.60 | 9.44 - 9.52 | 21.44 |
| | <i>0.375</i> | <i>0.812</i> | | <i>0.063</i> | | <i>0.844</i> |
| # ST-095-206-016-W | 9.53 | 20.63 | Washer Only - 410 Stainless | 1.58 | | |
| | <i>0.375</i> | <i>0.812</i> | | <i>0.062</i> | | |
| # ST-100-210-016-W | 10.00 | 21.00 | Washer Only - 410 Stainless | 1.57 | | |
| | <i>0.394</i> | <i>0.827</i> | | <i>0.062</i> | | |

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Bearings - Thrust - Ball - Washers Only

| Part Number | Nominal ID mm | Nominal OD mm | Description / Material | Nom. Thickness (B Max) mm | Shaft Pilot Diameter (S) mm | Diam. to Clear Washer OD (Dwc) mm |
|--------------------|-----------------------|-----------------------|--------------------------------|------------------------------|--------------------------------|--------------------------------------|
| | <i>inches</i> | <i>inches</i> | | <i>inches</i> | <i>inches</i> | <i>inches</i> |
| # T-100-210-016-W | 10.00 <i>0.394</i> | 21.00 <i>0.827</i> | Washer Only - Carbon Steel | 1.57 <i>0.062</i> | | |
| ST-111-222-016-W | 11.13 <i>0.438</i> | 22.23 <i>0.875</i> | Washer Only - 410 Stainless | 1.58 <i>0.062</i> | | |
| T-111-222-016-W | 11.13 <i>0.438</i> | 22.23 <i>0.875</i> | Washer Only - Carbon Steel | 1.58 <i>0.062</i> | | |
| # ST-120-240-016-W | 12.00 <i>0.472</i> | 24.00 <i>0.945</i> | Washer Only - 410 Stainless | 1.57 <i>0.062</i> | | |
| # T-120-240-016-W | 12.00 <i>0.472</i> | 24.00 <i>0.945</i> | Washer Only - Carbon Steel | 1.57 <i>0.062</i> | | |
| T-127-238-016-W | 12.70 <i>0.500</i> | 23.80 <i>0.937</i> | Washer Only - Carbon Steel | 1.60 <i>0.063</i> | 12.62 - 12.70 | 24.61 <i>0.969</i> |
| # ST-127-238-016-W | 12.70 <i>0.500</i> | 23.83 <i>0.938</i> | Washer Only - 410 Stainless | 1.58 <i>0.062</i> | | |
| T-143-254-016-W | 14.27 <i>0.562</i> | 25.40 <i>1.000</i> | Washer Only - Carbon Steel | 1.60 <i>0.063</i> | 14.19 - 14.27 | 26.19 <i>1.031</i> |

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| Part Number | Nominal ID mm | Nominal OD mm | Description / Material | Nom. Thickness (B Max) mm | Shaft Pilot Diameter (S) mm | Diam. to Clear Washer OD (Dwc) mm |
|--------------------|---------------|---------------|--------------------------------|------------------------------|--------------------------------|--------------------------------------|
| | <i>inches</i> | <i>inches</i> | | <i>inches</i> | <i>inches</i> | <i>inches</i> |
| # ST-143-254-016-W | 14.28 | 25.40 | Washer Only - 410 Stainless | 1.58 | | |
| | <i>0.562</i> | <i>1.000</i> | | <i>0.062</i> | | |
| # ST-159-286-024-W | 15.88 | 28.58 | Washer Only - 410 Stainless | 2.36 | | |
| | <i>0.625</i> | <i>1.125</i> | | <i>0.093</i> | | |
| # T-159-286-024-W | 15.88 | 28.58 | Washer Only - Carbon Steel | 2.42 | 15.80 - 15.88 | 29.36 |
| | <i>0.625</i> | <i>1.125</i> | | <i>0.095</i> | | <i>1.156</i> |
| # ST-160-280-024-W | 16.00 | 28.00 | Washer Only - 410 Stainless | 2.36 | | |
| | <i>0.630</i> | <i>1.102</i> | | <i>0.093</i> | | |
| # T-160-280-024-W | 16.00 | 28.00 | Washer Only - Carbon Steel | 2.36 | | |
| | <i>0.630</i> | <i>1.102</i> | | <i>0.093</i> | | |
| # ST-175-302-024-W | 17.48 | 30.18 | Washer Only - 410 Stainless | 2.36 | | |
| | <i>0.688</i> | <i>1.188</i> | | <i>0.093</i> | | |
| # T-175-302-024-W | 17.48 | 30.18 | Washer Only - Carbon Steel | 2.36 | | |
| | <i>0.688</i> | <i>1.188</i> | | <i>0.093</i> | | |
| ST-190-320-024-W | 19.00 | 32.00 | Washer Only - 410 Stainless | 2.36 | | |
| | <i>0.748</i> | <i>1.260</i> | | <i>0.093</i> | | |

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| Part Number | Nominal ID mm | Nominal OD mm | Description / Material | Nom. Thickness (B Max) mm | Shaft Pilot Diameter (S) mm | Diam. to Clear Washer OD (Dwc) mm |
|--------------------|---------------|---------------|--------------------------------|------------------------------|--------------------------------|--------------------------------------|
| | <i>inches</i> | <i>inches</i> | | <i>inches</i> | <i>inches</i> | <i>inches</i> |
| # T-190-320-024-W | 19.00 | 32.00 | Washer Only - Carbon Steel | 2.36 | | |
| | <i>0.748</i> | <i>1.260</i> | | <i>0.093</i> | | |
| # ST-191-318-024-W | 19.05 | 31.75 | Washer Only - 410 Stainless | 2.36 | | |
| | <i>0.750</i> | <i>1.250</i> | | <i>0.093</i> | | |
| T-191-318-024-W | 19.05 | 31.75 | Washer Only - Carbon Steel | 2.42 | 18.97 - 19.05 | 32.54 |
| | <i>0.750</i> | <i>1.250</i> | | <i>0.095</i> | | <i>1.281</i> |
| # ST-206-333-024-W | 20.63 | 33.33 | Washer Only - 410 Stainless | 2.36 | | |
| | <i>0.812</i> | <i>1.312</i> | | <i>0.093</i> | | |
| # T-206-333-024-W | 20.63 | 33.33 | Washer Only - Carbon Steel | 2.36 | | |
| | <i>0.812</i> | <i>1.312</i> | | <i>0.093</i> | | |
| ST-222-349-024-W | 22.23 | 34.93 | Washer Only - 410 Stainless | 2.36 | | |
| | <i>0.875</i> | <i>1.375</i> | | <i>0.093</i> | | |
| # T-222-349-024-W | 22.23 | 34.93 | Washer Only - Carbon Steel | 2.36 | | |
| | <i>0.875</i> | <i>1.375</i> | | <i>0.093</i> | | |
| # ST-238-397-032-W | 23.83 | 39.68 | Washer Only - 410 Stainless | 3.18 | | |
| | <i>0.938</i> | <i>1.562</i> | | <i>0.125</i> | | |

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|--------------------|---------------|---------------|--------------------------------|------------------------------|--------------------------------|--------------------------------------|
| | <i>inches</i> | <i>inches</i> | | <i>inches</i> | <i>inches</i> | <i>inches</i> |
| # T-238-397-032-W | 23.83 | 39.68 | Washer Only - Carbon Steel | 3.18 | | |
| | <i>0.938</i> | <i>1.562</i> | | <i>0.125</i> | | |
| ST-250-410-032-W | 25.00 | 41.00 | Washer Only - 410 Stainless | 3.18 | | |
| | <i>0.984</i> | <i>1.614</i> | | <i>0.125</i> | | |
| T-250-410-032-W | 25.00 | 41.00 | Washer Only - Carbon Steel | 3.18 | | |
| | <i>0.984</i> | <i>1.614</i> | | <i>0.125</i> | | |
| # ST-254-413-032-W | 25.40 | 41.28 | Washer Only - 410 Stainless | 3.18 | | |
| | <i>1.000</i> | <i>1.625</i> | | <i>0.125</i> | | |
| # T-254-413-032-W | 25.40 | 41.28 | Washer Only - Carbon Steel | 3.18 | | |
| | <i>1.000</i> | <i>1.625</i> | | <i>0.125</i> | | |
| ST-280-440-032-W | 28.00 | 44.00 | Washer Only - 410 Stainless | 3.18 | | |
| | <i>1.102</i> | <i>1.732</i> | | <i>0.125</i> | | |
| # T-280-440-032-W | 28.00 | 44.00 | Washer Only - Carbon Steel | 3.18 | | |
| | <i>1.102</i> | <i>1.732</i> | | <i>0.125</i> | | |
| # ST-286-445-032-W | 28.58 | 44.45 | Washer Only - 410 Stainless | 3.18 | | |
| | <i>1.125</i> | <i>1.750</i> | | <i>0.125</i> | | |

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|--------------------|---------------|---------------|--------------------------------|------------------------------|--------------------------------|--------------------------------------|
| | <i>inches</i> | <i>inches</i> | | <i>inches</i> | <i>inches</i> | <i>inches</i> |
| # T-286-445-032-W | 28.58 | 44.45 | Washer Only - Carbon Steel | 3.18 | | |
| | <i>1.125</i> | <i>1.750</i> | | <i>0.125</i> | | |
| # ST-318-476-032-W | 31.75 | 47.63 | Washer Only - 410 Stainless | 3.18 | | |
| | <i>1.250</i> | <i>1.875</i> | | <i>0.125</i> | | |
| # T-318-476-032-W | 31.75 | 47.63 | Washer Only - Carbon Steel | 3.18 | | |
| | <i>1.250</i> | <i>1.875</i> | | <i>0.125</i> | | |
| # ST-381-540-032-W | 38.10 | 53.98 | Washer Only - 410 Stainless | 3.18 | | |
| | <i>1.500</i> | <i>2.125</i> | | <i>0.125</i> | | |
| # T-381-540-032-W | 38.10 | 53.98 | Washer Only - Carbon Steel | 3.18 | | |
| | <i>1.500</i> | <i>2.125</i> | | <i>0.125</i> | | |

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