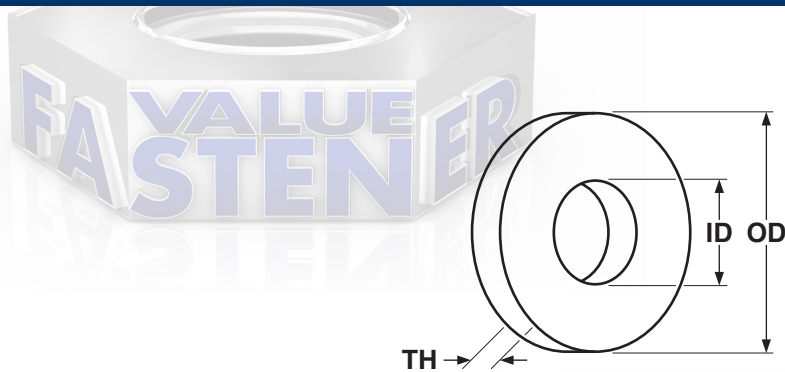


DIN 9021 Fender

WASHERS



| METRIC - FENDER WASHERS |                   |       |                  |       |           | DIN 9021 |
|-------------------------|-------------------|-------|------------------|-------|-----------|----------|
| Nominal Size            | ID                |       | OD               |       | TH        |          |
|                         | Internal Diameter |       | Outside Diameter |       | Thickness |          |
|                         | Max               | Min   | Max              | Min   | Max       | Min      |
| M2                      | 2.34              | 2.20  | 6.00             | 5.84  | 0.90      | 0.70     |
| M2.5                    | 2.84              | 2.70  | 8.00             | 7.64  | 0.90      | 0.70     |
| M4                      | 4.48              | 4.30  | 12.00            | 11.57 | 0.90      | 0.70     |
| M5                      | 5.48              | 5.30  | 15.00            | 14.57 | 1.40      | 1.10     |
| M6                      | 6.62              | 6.40  | 18.00            | 17.57 | 1.80      | 1.40     |
| M8                      | 8.62              | 8.40  | 24.00            | 23.48 | 2.20      | 1.80     |
| M10                     | 10.77             | 10.50 | 30.00            | 29.48 | 2.70      | 2.30     |
| M12                     | 13.27             | 13.00 | 37.00            | 36.38 | 3.30      | 2.70     |

|                                |  |   |
|--------------------------------|--|---|
| <b>Description</b>             | A flat washer with significantly more surface area than a DIN 125 or DIN 433 washer. They are also made from a thinner gauge metal than most flat washers.   |   |
| <b>Applications/Advantages</b> | Used where an extra wide bearing surface is required. Originally designed for auto body repair work, they are also used in sheet metal, plumbing, and electrical work. Also used to attach signs to posts, to install drywall and wood paneling. |   |
| <b>Material</b>                | Steel  | A2 & A4 Stainless Steel   |
| <b>Hardness</b>                | Vickers 140-250 HV   | Vickers 140-250 HV  |
| <b>Plating</b>                 | See Appendix-A for information on the plating of steel flat washers.   | Stainless washers are usually provided without additional finish. |