



| METRIC - STANDARD FLAT WASHERS, PER DIN 125A |                   |      |                  |       |           | DIN 125A |
|--|-------------------|------|------------------|-------|-----------|----------|
| Nominal Size                                 | ID                |      | OD               |       | T         |          |
|  | Internal Diameter |      | Outside Diameter |       | Thickness |          |
|  | Max               | Min  | Max              | Min   | Max       | Min      |
| 3  | 3.38              | 3.2  | 7                | 6.64  | 0.55      | 0.45     |
| 3.5  | 3.88              | 3.7  | 8                | 7.64  | 0.55      | 0.45     |
| 4  | 4.48              | 4.3  | 9                | 8.64  | 0.9       | 0.7      |
| 5  | 5.48              | 5.3  | 10               | 9.64  | 1.1       | 0.9      |
| 6  | 6.62              | 6.4  | 12               | 11.57 | 1.8       | 1.4      |
| 8  | 8.62              | 8.4  | 16               | 15.57 | 1.8       | 1.4      |
| 10   | 10.77             | 10.5 | 20               | 19.48 | 2.2       | 1.8      |
| 12   | 13.27             | 13   | 24               | 23.48 | 2.7       | 2.3      |
| 16   | 17.27             | 17   | 30               | 29.48 | 3.3       | 2.7      |
| 20   | 21.33             | 21   | 37               | 36.38 | 3.3       | 2.7      |

|                                |  |
|--------------------------------|--|
| <b>Description</b>             | A thin, flat circular part with a centrally located hole with outside diameter approximately twice the nominal thread diameter of the bolt or screw to be used with it. The "A" in 125A denotes that this washer is not chamfered. |
| <b>Applications/Advantages</b> | This is the most commonly used flat washer with low carbon bolts, screws and nuts.   |
| <b>Material</b>                | Steel HV-140   |
| <b>Hardness</b>                | HV 140 - 250   |
| <b>Plating</b>                 | See Appendix-A for information about the plating of flat washers.  |