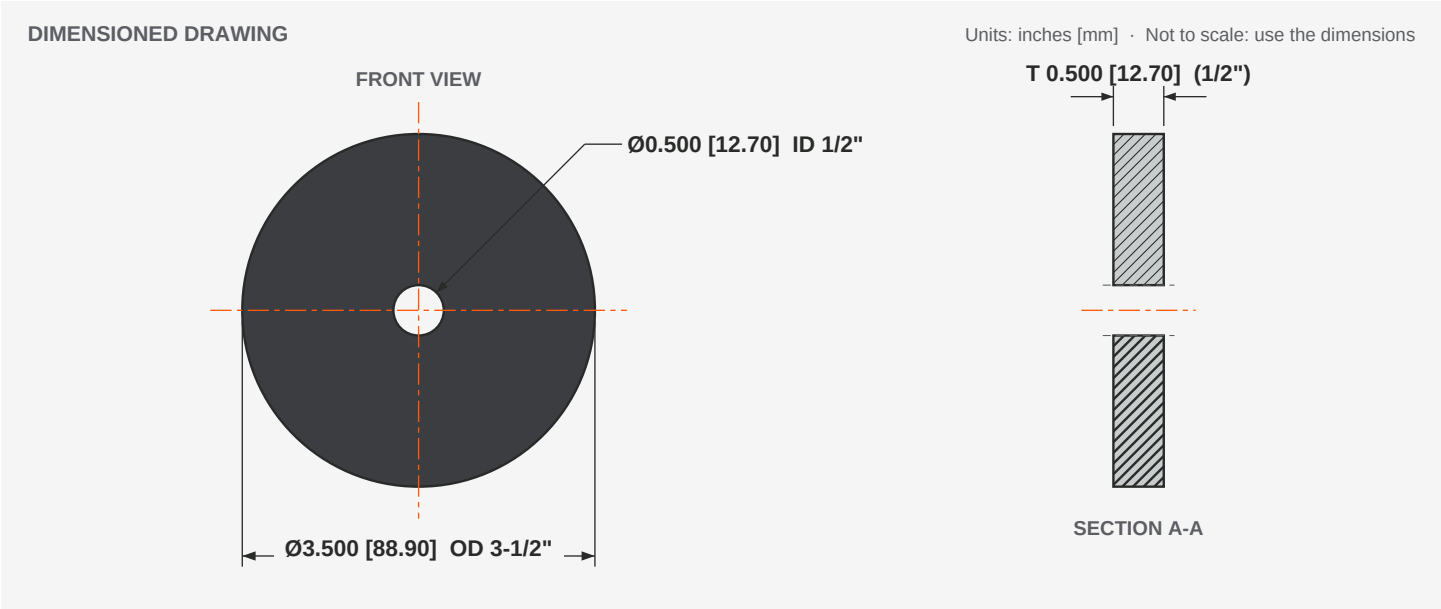


Nitrile (Buna-N) Rubber Washer 3-1/2" OD x 1/2" ID x 1/2" Thick

Flat die-cut washer · Acrylonitrile-butadiene (NBR) · 65-75 Shore A · -30°F to 212°F



DIMENSIONS

| Feature               | Nominal | Decimal | Metric   | Tolerance (typical)                   |
|-----------------------|---------|---------|----------|---------------------------------------|
| Outside diameter (OD) | 3-1/2"  | 3.500"  | 88.90 mm | ±0.015" (±0.38 mm)                    |
| Inside diameter (ID)  | 1/2"    | 0.500"  | 12.70 mm | ±0.015" (±0.38 mm)                    |
| Thickness (T)         | 1/2"    | 0.500"  | 12.70 mm | ±0.015" or ±10%, whichever is greater |

MATERIAL: NITRILE (BUNA-N)

|               |                                 |
|---------------|---------------------------------|
| Polymer       | Acrylonitrile-butadiene (NBR)   |
| Hardness      | 65-75 Shore A (typical)         |
| Service temp. | -30°F to 212°F (-34°C to 100°C) |
| Colour        | Black                           |
| Reference     | ASTM D2000 type BF/BG           |

The standard oil- and fuel-resistant rubber. Ethanol-blended fuels and sustained heat favour Viton.

CHEMICAL RESISTANCE (typical)

| Media                  | Rating    |
|------------------------|-----------|
| Water                  | Good      |
| Steam / hot water      | Poor      |
| Petroleum oil & grease | Excellent |
| Gasoline / diesel      | Good      |
| Ozone, UV & weather    | Poor      |
| Dilute acids           | Fair      |
| Dilute alkalis         | Fair      |
| Ketones (MEK, acetone) | Poor      |

AVOID

Direct sunlight/ozone, ketones, brake fluid, strong acids.

TYPICAL USES

- Oil drain plugs and gearboxes
- Hydraulic and pneumatic fittings
- Fuel and lube equipment
- Machinery and compressors

Order, bulk price tiers & CAD

|                |                                                                              |
|----------------|------------------------------------------------------------------------------|
| Product page   | <a href="#">Buy this washer (price tiers apply at 50+ pcs)</a>               |
| CAD (2D DXF)   | <a href="#">dixonappstudio.com/specs/rww/RWSHRBN3121212.dxf</a>              |
| CAD (3D STEP)  | <a href="#">dixonappstudio.com/specs/rww/RWSHRBN3121212.step</a>             |
| Material guide | <a href="#">rubberwasherwarehouse.com/pages/nitrile-rubber-washers-guide</a> |



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TYPICAL VALUES, VERIFY FOR YOUR APPLICATION. Properties are typical for commercial-grade material and are not a specification or warranty; actual values vary by compound, grade, temperature, pressure and exposure time. Test parts in your application before production use. Food-contact, potable-water, flame or electrical ratings apply only when a certified grade is confirmed on your order.  
Typical ranges compiled from ASTM D2000 material classes, the Parker O-Ring Handbook (ORD 5700) compatibility tables and Rubber Washer Warehouse material pages.