Quarter-turn Worm Gear Operators for Manual Operation

AT Series

Description

- Lean design whilst optimizing robustness and strength
- Used for less critical applications
- 27 models up to a torque of 350,000 Nm and F-60 mounting base
- Grease filled for life
- Fully sealed gearbox and completely enclosed gearing
- Cast iron casing and ductile iron quadrant
- Stroke 0-90° (+5° adjustable)
- Zinc plated fasteners
- High performance axial bearings
- Epoxy primer coating is standard for gearbox
- Powder coated handwheels for smooth and easy operation

Features

- Housing material options (ductile iron / stainless steel)
- Worm shaft, fasteners and hand wheel material option available in stainless steel
- Worm wheel material option available in aluminum bronze
- High temperature variant up to +200°C (+392°F) & low temperature variant up to -52°C (-61.6°F) available
- Marine application (all exposed shafts and fasteners in stainless steel)
- Finish painting is available on request
- IP-67 standard enclosure
- Padlock arrangement option available
- Namur mounting option available for limit switch box fitment
- Extension shaft for buried service available

Options

- Top mounted / top operated version (“handwheel, chainwheel or electric actuator” to be mounted / operated from the top of the gearbox and not from the side)
- Twin-shaft version available for some models of AT and AT-IS series to reduce no. of turns to close for manual operation (for models above AT-300/2/S3 and AT-300/1/S3-IS)
- Stainless steel version of gearboxes available for applications in highly corrosive environments as well as food and beverage, pharmaceutical and sanitary facilities. Option available for all models of AT, AT-IS, IS-EA and CW series
- Gearbox options as per API 6D specifications available for torques up to 3500 Nm
- Part turn 180° operated gearbox option available up to 15000 Nm
Quarter-turn Worm Gear Operators for Manual Operation

**Performance Specifications** 'AT Series' (Quarter-turn Manual Operation)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Description</th>
<th>Material</th>
<th>US Standard</th>
<th>IS Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Housing</td>
<td>Cast Iron</td>
<td>ASTM A48-83 30A</td>
<td>IS 210 FG 200</td>
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<tr>
<td>2</td>
<td>Top Cover</td>
<td>Cast Iron</td>
<td>ASTM A48-83 30A</td>
<td>IS 210 FG 200</td>
</tr>
<tr>
<td>3</td>
<td>Worm Wheel</td>
<td>Ductile Iron</td>
<td>ASTM A70-50-05</td>
<td>SGI 500/7</td>
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<tr>
<td>4</td>
<td>Input Shaft</td>
<td>Carbon Steel</td>
<td>AS76-1045</td>
<td>45C8</td>
</tr>
<tr>
<td>5</td>
<td>Worm</td>
<td>Carbon Steel</td>
<td>AS76-1045</td>
<td>45C8</td>
</tr>
</tbody>
</table>

**Note:** Refer to Figure (1) for Models up to "AT-90"
Refer to Figure (2) for Models above "AT-90"

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