500 SERIES
AROUND THE SHAFT

Shaft Mounted Design
Used in conjunction with the customer's shaft and retaining sleeve.

Two Configurations
High speed, low pressure applications, or high pressure, low speed applications.

Features & Benefits

High Pressure, Low Speed
High pressure, low speed models can be used at pressures to 5,800 psi and speeds less than 100 RPM.

High Speed, Low Pressure
High speed, low pressure models can be used at speeds to 3,000 RPM, and pressures to 175 psi.

Operating Parameters

<table>
<thead>
<tr>
<th>MEDIA</th>
<th>PRESSURE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water, Air, Hydraulic Fluid</td>
<td>5,800 PSI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TEMPERATURE*</th>
<th>SPEED*</th>
</tr>
</thead>
<tbody>
<tr>
<td>392° F</td>
<td>3,000 RPM</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>THREADS</th>
<th>MATERIAL</th>
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<tbody>
<tr>
<td>1/4” to 1/2” NPT or BSPP</td>
<td>Nickel Treated Carbon Steel</td>
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<tr>
<td></td>
<td>Construction</td>
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</table>

* See Performance Charts For Details
## 500 SERIES ROTARY UNIONS

<table>
<thead>
<tr>
<th>Part Number Description</th>
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<tr>
<td>20mm</td>
<td>750905C</td>
<td>BAT20RK</td>
<td>750935C</td>
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<tr>
<td>30mm</td>
<td>750906C</td>
<td>BAT30RK</td>
<td>750936C</td>
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<td>40mm</td>
<td>750907C</td>
<td>BAT40RK</td>
<td>750937C</td>
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<td>750908C</td>
<td>BAT45RK</td>
<td>750938C</td>
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<td>BAT85RK</td>
<td>750946C</td>
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<td>90mm</td>
<td>750917C</td>
<td>BAT90RK</td>
<td>750947C</td>
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<td>95mm</td>
<td>750918C</td>
<td>BAT95RK</td>
<td>750948C</td>
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<tr>
<td>100mm</td>
<td>750919C</td>
<td>BAT100RK</td>
<td>750949C</td>
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</table>

### DIMENSIONS

**Customer Shaft Size** | **A** | **B** | **C** | **D** | **E** | **E1** | **L** | **M**
---|---|---|---|---|---|---|---|---
20mm | 0.75 | 2.16 | 3.50 | 3.03 | GR20 | OAB20 | .86 | .25
30mm | 1.18 | 2.55 | 3.58 | 3.03 | GR30 | OAB30 | .86 | .25
40mm | 1.57 | 2.95 | 3.93 | 3.38 | GR40 | OAB40 | .86 | .25
45mm | 1.77 | 3.34 | 4.09 | 3.54 | GR45 | OAB45 | .86 | .25
50mm | 1.96 | 3.54 | 4.17 | 3.54 | GR50 | OAB50 | .86 | .25
55mm | 2.16 | 3.93 | 4.68 | 4.05 | GR55 | OAB55 | 1.25 | .50
60mm | 2.36 | 4.13 | 4.76 | 4.13 | GR60 | OAB60 | 1.25 | .50
65mm | 2.55 | 4.33 | 4.84 | 4.21 | GR65 | OAB65 | 1.25 | .50
70mm | 2.75 | 4.72 | 5.00 | 4.21 | GR70 | OAB70 | 1.25 | .50
75mm | 2.95 | 4.92 | 5.27 | 4.48 | GR75 | OAB75 | 1.25 | .50
80mm | 3.14 | 5.31 | 5.43 | 4.64 | GR80 | OAB80 | 1.25 | .50
85mm | 3.34 | 5.51 | 5.51 | 4.72 | GR85 | OAB85 | 1.25 | .50
90mm | 3.54 | 5.90 | 5.59 | 4.80 | GR90 | OAB90 | 1.25 | .50
95mm | 3.74 | 6.10 | 5.78 | 5.00 | GR95 | OAB95 | 1.25 | .50
100mm | 3.93 | 6.29 | 6.02 | 5.07 | GR100 | OAB100 | 1.25 | .50

*2 seals per joint
Performance Charts

500 Series - High Pressure
Performance Charts

500 Series - High Pressure

500 Series - High Pressure
Performance Charts

500 Series - High Speed

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500 SERIES

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20mm

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30mm

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40mm

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45mm

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50mm

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55mm

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60mm

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65mm
Performance Charts

500 Series - High Speed

70mm

75mm

80mm

85mm

90mm

95mm

100mm

Standard Materials & Stainless Steel