### Features

By locating the flow passage between the left and right radial ball bearings, thrust load caused by fluid pressure is not applied to the bearings. Thus, it is possible to use the product in a high-pressure range, with small variations in dynamic torque due to pressure changes.

O-rings (with back-up rings) are used as main seals, providing stable seal performance in a range of low to high pressure.

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The contents are subject to change without notice.
### Service Conditions

<table>
<thead>
<tr>
<th>Series</th>
<th>Connection</th>
<th>Material (main parts)</th>
<th>Main Seal</th>
<th>Size</th>
<th>Max. Pressure (MPa)</th>
<th>Max. Temperature (℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRK</td>
<td>Taper Thread (Rc)</td>
<td>Carbon Steel</td>
<td>O-ring NBR</td>
<td>2, 3</td>
<td>10A~40A 34.3</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50A~65A 24.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>80A 24.5</td>
<td></td>
</tr>
<tr>
<td>SSH</td>
<td>Taper Thread (Rc)</td>
<td>Stainless Steel</td>
<td>O-ring NBR</td>
<td>2</td>
<td>10A~25A 20.6</td>
<td>100</td>
</tr>
</tbody>
</table>

Note: The main seals for the standard specification of each series are O-rings (NBR).

### Styles

Depending on shapes, two styles are available.

- **Style 2**
- **Style 3**
**Structures and Materials**

**SRK**

- **Shaft**: Carbon Steel
- **Body**: Stainless Steel
- **Main Seal**: NBR
- **Back-up Ring**: PTFE

**SSH**

- **Shaft**: Stainless Steel
- **Body**: Stainless Steel
- **Main Seal**: NBR
- **Back-up Ring**: PTFE

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*10A and 15A are not grease-type products. Ball bearings are grease-sealed type products without a grease nipple and a plug.*

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*Note) Component materials are indicated on product drawings. Contact our sales representative for requests for product drawings.*
Dimensions (SRK Series / SSH Series)

**SRK Series, Dimension Table**  
(mm)

<table>
<thead>
<tr>
<th>Size</th>
<th>Connection</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>F1</th>
<th>F2</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>10A</td>
<td>Rc3/8</td>
<td>60</td>
<td>85</td>
<td>40</td>
<td>60</td>
<td>26</td>
<td>33</td>
<td>33</td>
<td>27</td>
<td>40</td>
</tr>
<tr>
<td>15A</td>
<td>Rc1/2</td>
<td>60</td>
<td>85</td>
<td>40</td>
<td>60</td>
<td>29</td>
<td>33</td>
<td>33</td>
<td>33</td>
<td>40</td>
</tr>
<tr>
<td>20A</td>
<td>Rc3/4</td>
<td>82</td>
<td>107</td>
<td>55</td>
<td>75</td>
<td>35</td>
<td>53</td>
<td>38</td>
<td>38</td>
<td>57</td>
</tr>
<tr>
<td>25A</td>
<td>Rc1</td>
<td>82</td>
<td>107</td>
<td>55</td>
<td>75</td>
<td>38</td>
<td>53</td>
<td>47</td>
<td>47</td>
<td>57</td>
</tr>
<tr>
<td>32A</td>
<td>Rc1¼</td>
<td>115</td>
<td>130</td>
<td>105</td>
<td>95</td>
<td>45</td>
<td>57</td>
<td>57</td>
<td>57</td>
<td>69</td>
</tr>
<tr>
<td>40A</td>
<td>Rc1½</td>
<td>120</td>
<td>130</td>
<td>110</td>
<td>95</td>
<td>51</td>
<td>64</td>
<td>64</td>
<td>64</td>
<td>69</td>
</tr>
<tr>
<td>50A</td>
<td>Rc2</td>
<td>135</td>
<td>155</td>
<td>130</td>
<td>125</td>
<td>60</td>
<td>77</td>
<td>77</td>
<td>77</td>
<td>88</td>
</tr>
<tr>
<td>65A</td>
<td>Rc2¼</td>
<td>165</td>
<td>180</td>
<td>155</td>
<td>155</td>
<td>67</td>
<td>95</td>
<td>95</td>
<td>96</td>
<td>94</td>
</tr>
<tr>
<td>80A</td>
<td>Rc3</td>
<td>170</td>
<td>-</td>
<td>170</td>
<td>170</td>
<td>-</td>
<td>114</td>
<td>114</td>
<td>-</td>
<td>100</td>
</tr>
</tbody>
</table>

**SSH Series, Dimension Table**  
(mm)

<table>
<thead>
<tr>
<th>Size</th>
<th>Connection</th>
<th>A</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>F1</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>10A</td>
<td>Rc3/8</td>
<td>59</td>
<td>50</td>
<td>50</td>
<td>36</td>
<td>38</td>
<td>44</td>
</tr>
<tr>
<td>15A</td>
<td>Rc1/2</td>
<td>59</td>
<td>50</td>
<td>50</td>
<td>36</td>
<td>38</td>
<td>44</td>
</tr>
<tr>
<td>20A</td>
<td>Rc3/4</td>
<td>90</td>
<td>72</td>
<td>75</td>
<td>47</td>
<td>47</td>
<td>54</td>
</tr>
<tr>
<td>25A</td>
<td>Rc1</td>
<td>90</td>
<td>72</td>
<td>75</td>
<td>47</td>
<td>47</td>
<td>54</td>
</tr>
</tbody>
</table>
Note 1) Dynamic torque varies depending on product storage conditions, storage period, or fluid types.
2) Starting torque is larger than dynamic torque. Although starting torque is even larger when wringing occurs, it does not indicate any fault.
3) Data are typical values measured based on in-house test standards. They are not guaranteed values.
### Model Names and Types

**Model Name**

**Type**

**Size**

**SRK**

- **Series**: SRK, SSH
- **Style**: 2 (L-shape), 3 (U-shape)
- **Size**: 20A

**Option (Main Seal)**

- Standard specification (NBR)
- Fluoro-rubber

**Standard Spec**: Without Options

**Quasi-standard Spec**: With Options

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### Precautions on Selection

1. Select a product whose operating conditions are within the service conditions (listed in the table on page 2).
2. Two radial ball bearings are incorporated in a product and there is no clearance (play). Shaft movement is restricted in the swivel direction. When introducing a hose for connecting the product or a movable pipeline for using multiple products, carefully consider the motion of the hose and the movable pipeline before selecting a style.
3. Select an option as necessary.
   1) See “Model Names and Types” (page 6) for the types of options.
4. The standard specification main seal (NBR) cannot be used for phosphoric ester-based hydraulic oil, chlorinated hydrocarbon-based hydraulic oil, organic solvents, or acids. Contact us for a substitute seal.
5. The use of the product in a continuous rotation condition is not appropriate. The product lifetime becomes shortened.
6. The product cannot be used for fluid that causes corrosion on it.
7. The product is not designed according to the general design rules for safety and hygiene of food processing machinery (JIS B 9650). Consult with us when considering the use of the product in food-related facilities.
8. Depending on the fluid used, the product may subject to restrictions due to national laws or local regulations.

As for customized products, we can produce products with modifications that are not included in the options, including such products for which a flange, socket welding, or butt welding is used for connection.

If you have any questions or wish to purchase customized products, contact our sales representative.
Maintenance

1) Greasing
   The ball bearings and the main seal require periodic greasing (refilling).
   Perform greasing with reference to the frequency (guideline) shown to the right.
   *Use the following brand of grease filled in the product before shipment.
   【Idemitsu Kosan Co., Ltd. Alvania S1】

2) Replacement of consumables
   You can use the product for an extended period of time by replacing consumables.
   Contact us for replacement. We carry it out according to our repair program.
   Depending on the products, expenses for purchasing new products may be lower than repair expenses.
   Contact us for more information.

Product Order

Please provide the following information.

1) When ordering our product you are currently using
   ① Model name (indicated on the product's nameplate)

2) When newly ordering our products
   ① Model name (see page 6.)
   ② Related information
       · The name of equipment to which our product is installed
       · The name of the fluid used
       · Fluid pressure and temperature
       · Operation (rotation or swivel) and its frequency
       · Service environment
       · Requests, etc.

If you have any questions, contact our sales representative.
If a malfunction occurs during the warranty period, contact us or the distributor and send the product to us. Be sure to carefully pack the product for protection before sending it. After receiving the product, we will confirm the malfunction. If the malfunction was clearly caused by the materials of product components or the manufacturing method, we will repair the product in question or replace it with a new one free of charge.

**Product Warranty Provision**

1. **Warranty Period**
   - **< New products >**
     One (1) year and six (6) months after shipment (from the manufacturing date) or one (1) year after installation, whichever comes first.
   - **< Repaired products >**
     Six (6) months after shipment (from the manufacturing date).

2. **We charge a fee for repairs in any of the following cases.**
   ① Failure after the warranty period has expired
   ② Failure caused by use of the product deviating from the service conditions
   ③ Failure caused by misuse (improper storage, installation, pipe laying, operation or maintenance, etc.)
   ④ Failure caused by fluid contaminants or foreign objects in the fluid
   ⑤ Failure caused by relocation, transport, or falling of the product after delivery
   ⑥ Failure caused by disassembly, repair, or modification done by personnel other than our service personnel
   ⑦ Failure of the product attributed to using materials or according to standards specified by the customer
   ⑧ Failure of the product attributed to using materials provided by the customer
   ⑨ Failure caused due to unavoidable acts of nature such as fires or other natural disasters

3. **Scope of Responsibility**
   Our responsibility shall be limited to repairs, replacements, or transport expenses covered by this product warranty provision. Expenses or damages caused by said failures above shall not be covered.

4. **Applicable Regions**
   This product warranty provision shall be applicable to products installed in Japan.

5. **Another Agreement**
   If another product warranty agreement is made separately with us and clearly states that said agreement shall have priority over this product warranty provision, this provision shall not be applicable.

6. **This product warranty provision shall not restrict the customer's legal rights.**