Air Flow Control Valve

Model BZW

Directly mounted to clamps, easy adjusting

**Directly Mounted to Clamps**

BZW is the flow control valve for Rc thread that enable to mount to the piping method -A option of WCA/WCE/WHA/WHD/WHE. It is best used in a circuit where the flow control valve cannot be mounted or if necessary to synchronize individual speed.

### Corresponding Product Model

<table>
<thead>
<tr>
<th>Clamps</th>
<th>BZW Model No.</th>
<th>Clamp Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Power Pneumatic Link Clamp</td>
<td>BZW0100-A</td>
<td>WCE 2-2</td>
</tr>
<tr>
<td>High-Power Pneumatic Swing Clamp</td>
<td></td>
<td>WHE 0-2</td>
</tr>
<tr>
<td>Pneumatic Swing Clamp</td>
<td>BZW0100-B</td>
<td>WHA 0-2</td>
</tr>
<tr>
<td>Double Piston Pneumatic Swing Clamp</td>
<td></td>
<td>WHD 0-2</td>
</tr>
<tr>
<td>Pneumatic Link Clamp</td>
<td></td>
<td>WCA 1-2</td>
</tr>
</tbody>
</table>

*Corresponding to Piping Method -A option. When mounting BZW to piping method G, take off R thread plug and remove the seal tape not to get inside cylinder.*
Model No. Indication

**BZW 010 0 – B**

- **Control Method**
  - B: Meter-out
  - A: Meter-in
- **Design No.**
  - 0: Revision Number
- **R Thread Size**
  - 010: Rc1/8

Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>BZW0100-B</th>
<th>BZW0100-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Method</td>
<td>Meter-out</td>
<td>Meter-in</td>
</tr>
<tr>
<td>Operating Pressure (MPa)</td>
<td>0.1 ~ 1.0</td>
<td></td>
</tr>
<tr>
<td>Withstanding Pressure (MPa)</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>Adjust Screw Number of Rotations</td>
<td>10 Rotations</td>
<td></td>
</tr>
<tr>
<td>Tightening Torque (N·m)</td>
<td>5 ~ 7</td>
<td></td>
</tr>
<tr>
<td>Corresponding Model No.</td>
<td>WHE 0-2A</td>
<td>WHA 0-2A</td>
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<tr>
<td></td>
<td>WHD 0-2A</td>
<td>WCA 1-2A</td>
</tr>
<tr>
<td></td>
<td>WCE 2-2A</td>
<td></td>
</tr>
</tbody>
</table>

Circuit Symbol

- **BZW0100-B : Meter-out**
  - P1 Port
    - Air Source Side (Incoming Side)
  - P2 Port
    - Clamp Side (Outgoing Side)

- **BZW0100-A : Meter-in**
  - P1 Port
    - Air Source Side (Incoming Side)
  - P2 Port
    - Clamp Side (Outgoing Side)

External Dimensions

- Adjusting Screw
- Lock Nut
- O-ring (Included)
- Packing
- BZW-B mounting direction of BZW-A is opposite.

Flow Rate Graph

**BZW0100-B/BZW0100-A common**

- Controlled Flow Direction
- Free Flowing Direction

Notes:
1. Since the area is sealing part, be careful not to damage it.
2. No cutting chips or burr should be at the tolerance part of machining hole.
3. As shown in the drawing, P1 port is used as the air supply side and P2 port as the clamp side.
Cautions

Notes on Handling

1) It should be handled by qualified personnel.
   • The hydraulic machine and air compressor should be handled and maintained by qualified personnel.
2) Do not handle or remove the machine unless the safety protocols are ensured.
   1. The machine and equipment can only be inspected or prepared when it is confirmed that the preventive devices are in place.
2. Before the machine is removed, make sure that the above-mentioned safety measures are in place. Shut off the air of hydraulic source and make sure no pressure exists in the hydraulic and air circuit.
3. After stopping the machine, do not remove until the temperature cools down.
4. Make sure there is no abnormality in the bolts and respective parts before restarting the machine or equipment.
3) Do not touch clamp (cylinder) while clamp (cylinder) is working. Otherwise, your hands may be injured due to clinching.
4) Do not disassemble or modify.
   • If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.

Maintenance and Inspection

1) Removal of the Machine and Shut-off of Pressure Source
   • Before the machine is removed, make sure that the above-mentioned safety measures are in place. Shut off the air of hydraulic source and make sure no pressure exists in the hydraulic and air circuit.
   • Make sure there is no abnormality in the bolts and respective parts before restarting.
2) Regularly clean the area around the piston rod and plunger.
   • If it is used when the surface is contaminated with dirt, it may lead to packing seal damage, malfunctioning, fluid leakage and air leaks.
3) Please clean out the reference surface regularly (taper reference surface and seating surface) of locating machine. (VS/VF/VFL/VFM/VFJ/VFK/VWS/VWM/VWK/VX/VXF)
   • Location products, except VX/VXF model, can remove contaminants with cleaning functions.
   When installing pallets makes sure there is no thick sludge like substances on pallets.
   • Continuous use with dirt on components will lead to locating functions not work properly, leaking and malfunction.
4) If disconnecting by couplers on a regular basis, air bleeding should be carried out daily to avoid air mixed in the circuit.
5) Regularly tighten nuts, bolts, pins, cylinders and pipe line to ensure proper use.
6) Make sure the hydraulic fluid has not deteriorated.
7) Make sure there is smooth action and no abnormal noise.
   • Especially when it is restarted after left unused for a long period, make sure it can be operated correctly.
8) The products should be stored in the cool and dark place without direct sunshine or moisture.
9) Please contact us for overhaul and repair.
Warranty

1) Warranty Period
- The product warranty period is 18 months from shipment from our factory or 12 months from initial use, whichever is earlier.

2) Warranty Scope
- If the product is damaged or malfunctions during the warranty period due to faulty design, materials or workmanship, we will replace or repair the defective part at our expense. Defects or failures caused by the following are not covered.

1. If the stipulated maintenance and inspection are not carried out.
2. If the product is used while it is not suitable for use based on the operator's judgment, resulting in defect.
3. If it is used or handled in inappropriate way by the operator.
   - (Including damage caused by the misconduct of the third party.)
4. If the defect is caused by reasons other than our responsibility.
5. If repair or modifications are carried out by anyone other than Kosmek, or without our approval and confirmation, it will void warranty.
6. Other caused by natural disasters or calamities not attributable to our company.
7. Parts or replacement expenses due to parts consumption and deterioration.
   - (Such as rubber, plastic, seal material and some electric components.)

Damages excluding from direct result of a product defect shall be excluded from the warranty.
# Sales Offices

## Sales Offices across the World

<table>
<thead>
<tr>
<th>Location</th>
<th>Phone</th>
<th>FAX</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Japan</strong></td>
<td>TEL. +81-78-991-5162</td>
<td>FAX. +81-78-991-8787</td>
</tr>
<tr>
<td>KOSMEK LTD.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overseas Sales</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>USA</strong></td>
<td>TEL. +1-630-620-7650</td>
<td>FAX. +1-630-620-9015</td>
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<tr>
<td>KOSMEK (USA) LTD.</td>
<td></td>
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<tr>
<td>Mexico</td>
<td>TEL. +52-442-161-2347</td>
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<tr>
<td>KOSMEK USA Mexico Office</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EUROPE</strong></td>
<td>TEL. +43-463-287587</td>
<td>FAX. +43-463-287587-20</td>
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<tr>
<td>KOSMEK EUROPE GmbH</td>
<td></td>
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<tr>
<td><strong>China</strong></td>
<td>TEL.+86-21-54253000</td>
<td>FAX.+86-21-54253709</td>
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<tr>
<td>KOSMEK (CHINA) LTD.</td>
<td></td>
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<tr>
<td><strong>India</strong></td>
<td>TEL.+91-9880561695</td>
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<td>KOSMEK LTD. - INDIA</td>
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<td><strong>Thailand</strong></td>
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<td>FAX. +66-2-300-5133</td>
</tr>
<tr>
<td><strong>Taiwan</strong></td>
<td>TEL. +886-2-82261860</td>
<td>FAX. +886-2-82261890</td>
</tr>
<tr>
<td>Full Life Trading Co., Ltd.</td>
<td></td>
<td></td>
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<tr>
<td><strong>Philippines</strong></td>
<td>TEL.+63-2-310-7286</td>
<td>FAX. +63-2-310-7286</td>
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<td>G.E.T. Inc, Phil.</td>
<td></td>
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<tr>
<td><strong>Indonesia</strong></td>
<td>TEL.+62-21-5818632</td>
<td>FAX. +62-21-5814857</td>
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<tr>
<td>P.T PANDU HYDRO PNEUMATICS</td>
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## Sales Offices in Japan

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<th>Location</th>
<th>Phone</th>
<th>FAX</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Head Office</strong></td>
<td>TEL.078-991-5115</td>
<td>FAX.078-991-8787</td>
</tr>
<tr>
<td>Osaka Sales Office</td>
<td></td>
<td></td>
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<td>Overseas Sales</td>
<td></td>
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<td><strong>Tokyo Sales Office</strong></td>
<td>TEL.048-652-8839</td>
<td>FAX.048-652-8828</td>
</tr>
<tr>
<td><strong>Nagoya Sales Office</strong></td>
<td>TEL.0566-74-8778</td>
<td>FAX.0566-74-8808</td>
</tr>
<tr>
<td><strong>Fukuoka Sales Office</strong></td>
<td>TEL.092-433-0424</td>
<td>FAX.092-433-0426</td>
</tr>
</tbody>
</table>

**Notes:**
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Global Network

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Asia Detailed Map

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