Flush Bottom Valve
Piston / Ram Valve

ALL Custom made in Japan

ASKA CORPORATION

http://www.bb-aska.co.jp
All valves from Aska Corporation are unique, designed to suit the order from the customer.

**Types of Tank Valves**

- **Rising Disc Type**
  - The valve opens when the valve disc has risen into the tank.

- **Lowering Disc Type**
  - The valve opens when the valve disc has lowered into the valve.

- **Piston type**
  - Full bore is reached when the piston has lowered.

<table>
<thead>
<tr>
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<th>Rising Disc Type</th>
<th>Lowering Disc Type</th>
<th>Piston type</th>
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</thead>
<tbody>
<tr>
<td><strong>Flow of fluid</strong></td>
<td>○</td>
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<tr>
<td><strong>Interfering with in-tank agitator</strong></td>
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<td><strong>Double action cylinder (Fail Last)</strong></td>
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<td><strong>Single action cylinder (Fail Close, Fail Open)</strong></td>
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<td><strong>Air motor</strong></td>
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<td><strong>Thermometer attachment</strong></td>
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*Teflon® and other coatings and linings are available*, so they can be used not only for polymer applications, but for pharmaceuticals and foods, where corrosion resistance, chemical resistance, and impurity adhesion prevention are required.

- **Standard Materials Handled**: SCS13/CF8 (SS304), SCS14/CF8M (SS316), SCS19/CF3 (SS304L), SCS16/CF3M (SS316L), Hastelloy alloys B/C

- **Standard Manufacturing Sizes**: Rising/lowering disc type valves: 20 A to 500 A; Piston valves: 15 A to 300 A

* Contact us regarding other materials or sizes.
Tank valves from Aska Corporation solve a variety of issues for our customers.
These days, our customers use a variety of fluids, and there is a strong need for in-tank temperature measurements. Many customers have asked if the in-tank temperature can be measured at the valve. With conventional thermometers attached to the tank, there are concerns about contamination, and adjustments to the attachment position are difficult.

**Valves Equipped With Resistance Thermometer Sensor**

- **Resistance Thermometer Sensor Valves**

**Valves That Measure Temperature**

These days, our customers use a variety of fluids, and there is a strong need for in-tank temperature measurements. Many customers have asked if the in-tank temperature can be measured at the valve. With conventional thermometers attached to the tank, there are concerns about contamination, and adjustments to the attachment position are difficult.

**Attaching the thermometer to the valve has the following advantages.**

- The resistance thermometer sensor can be replaced while the valve is left attached to the tank.
- A thermometer nozzle in the tank jacket is not required, and an in-tank thermometer is not required.
- Combined use of a Teflon coating enables temperature measurements of highly corrosive fluids.
- Combined use of a bellows seal is possible.
- If there is a risk of interference with an agitator, it is possible to change to thermocouple specifications, and the protrusion length can be adjusted.
- The temperature can be measured all the way to the final trace amounts in the reaction layer at the bottom of the tank.
Tank valves are designed to expel fluids from reactors, vessels, and storage tanks.

An advantage of the disc type is that the opening/closing stroke is short.

The labor saving air cylinder type is common.

Leak-Proof Valves Featuring High Seal Performance

- A lowering disc type and a rising disc type are available.
- Valves can be fitted regardless of the shape of the vessel nozzle, so replacement of previously installed valves is easy.
- The lowering disc type valve can be completely fitted on the vessel wall.
- The valve disc can be sharpened, enabling it to break up any residue within the vessel.
- The temperature in the vessel can also be measured.
The best feature of piston valves is that when the valve is opened, full bore is reached while the piston drops all the way to the flow outlet. This is also optimal for viscous fluids.

- They can be fitted regardless of the shape of the vessel nozzle.
- They can also be used for sampling and flushing from pipes.
- The valve tip can be completely fitted on the vessel wall.
- The shape of the piston tip can be sharpened, so that it can break up any residue within the vessel.
- With piston valves, the inside of the valve is cleaned each time the piston moves.

This is ideal for slurries and other fluids that are prone to clogging.
This valve is opened and closed manually. Both rotating types and non-rotating types are available.

A motor controls the valve via a continuous supply of air. They are lightweight, small, and provide high output, so they can be installed in cramped spaces. The flow rate can be adjusted by adding a control unit. A limit switch/positioner can be installed. Types with a manual handle are available.

A motor controls the valve via a continuous supply of air. They are lightweight, small, and provide high output, so they can be installed in cramped spaces. The flow rate can be adjusted by adding a control unit. A limit switch/positioner can be installed. Types with a manual handle are available.

The valve is opened and closed manually. Both rotating types and non-rotating types are available.

The valve is opened and closed by air pressure. If the air supply fails, the valve disc stops at that position (Fail Last). Types with a manual handle are available.

The valve is opened and closed by air pressure. If the air supply fails, an internal spring keeps the valve closed (Air Fail Close). The opposite setting (Air Fail Open) is also possible. Types with a manual handle are available.

This electric motor is computer-controlled. Various settings can be configured by remote control, and there is a digital display panel showing the extent of opening/closing. The flow rate can be adjusted by adding a control function.

This instrument uses compressed air to control the valve. Aska Corporation air cylinders are manufactured in-house, and can be customized in various ways. Various accessories including solenoid valves, air sets, limit switches, positioners, speed controllers, and silencers can be installed.

This instrument uses compressed air to control the valve. 4 mA to 20 mA control can be set. Fine-tuned control is possible due to the flexibility of the diaphragm. The flow rate can be adjusted by adding a positioner. This is optimal for trace quantity control valves.

Optimal Design and Strict Quality Control

**Product Lineup**

- Diverter valves / 3-to-7-way valves
- Tank valves / flush bottom valves
- Piston valves / ram valves
- Sampling valves / drain valves
- Injection valves
- Plug valves
- Control valves
- Y-globe valves
- Die / die head valves

**APPLICATIONS**

- PET / PC / PBT
- PP / PE / PS / PU / PVC
- LDPE / HDPE / LCD
- PTA / PLA
- PA6 / PA66
- TONNER / RESINS
- Pharmaceutical intermediates
- Nuclear power / foods