## Features

1. The right angle type check valve changes the flow direction of fluid 90 degrees, while the in-line check valve allows only axial direction flow.

2. The cracking pressures of these valves are fixed, so fluid passes freely in one direction, but is restricted from flowing in the opposite direction.

### Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Nominal Diameter (Size)</th>
<th>Screw Mounting</th>
<th>Gasket Mounting</th>
<th>Maximum Working Pressure MPa(kgf/cm²)</th>
<th>Maximum Flow Rate ℓ/min</th>
<th>Cracking Pressure MPa(kgf/cm²)</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-T03-1-20</td>
<td>3/8</td>
<td>2</td>
<td>2</td>
<td>0.04 (0.4)</td>
<td>40</td>
<td>0.35 (3.6)</td>
<td>1.0</td>
</tr>
<tr>
<td>CA-T06-1-20</td>
<td>3/4</td>
<td>2</td>
<td>2</td>
<td>0.04 (0.4)</td>
<td>110</td>
<td>0.35 (3.6)</td>
<td>2.2</td>
</tr>
<tr>
<td>CA-T10-1-20</td>
<td>1¼</td>
<td>2</td>
<td>2</td>
<td>0.04 (0.4)</td>
<td>320</td>
<td>0.35 (3.6)</td>
<td>4.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Nominal Diameter (Size)</th>
<th>Screw Mounting</th>
<th>Gasket Mounting</th>
<th>Maximum Working Pressure MPa(kgf/cm²)</th>
<th>Maximum Flow Rate ℓ/min</th>
<th>Cracking Pressure MPa(kgf/cm²)</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN-T03-1-11</td>
<td>3/8</td>
<td>2</td>
<td>–</td>
<td>0.04 (0.4)</td>
<td>30</td>
<td>0.35 (3.6)</td>
<td>0.4</td>
</tr>
<tr>
<td>CN-T06-1-11</td>
<td>3/4</td>
<td>2</td>
<td>–</td>
<td>0.04 (0.4)</td>
<td>75</td>
<td>0.35 (3.6)</td>
<td>0.7</td>
</tr>
<tr>
<td>CN-T10-1-11</td>
<td>1¼</td>
<td>2</td>
<td>–</td>
<td>0.04 (0.4)</td>
<td>190</td>
<td>0.35 (3.6)</td>
<td>2.2</td>
</tr>
</tbody>
</table>

### Handling

1. Use the following table for specification when a sub plate is required.

2. The following are the bundled mounting bolts.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Bolt Dimensions</th>
<th>Q’ty</th>
<th>Tightening Torque N·m(kgf·cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-G03~20</td>
<td>M8×45ℓ</td>
<td>4</td>
<td>20 to 25 (205 to 255)</td>
</tr>
<tr>
<td>CA-G06~20</td>
<td>M16×65ℓ</td>
<td>4</td>
<td>190 to 235 (1940 to 2400)</td>
</tr>
<tr>
<td>CA-G10~20</td>
<td>M20×75ℓ</td>
<td>4</td>
<td>370 to 460 (3770 to 4690)</td>
</tr>
</tbody>
</table>

Note) For mounting bolts, use bolts of 12.9 strength classification or equivalent.

### Explanation of model No.

- Design number
  - 11: In-line type
  - 20: Right angle type

- Cracking pressure
  - 1, 2, 3

- Nominal diameter (size)

- Mounting method
  - T: Screw Mounting
  - G: Gasket Mounting

- CA: Right angle check valve
- CH: In-line check valve
Installation Dimension Drawings

CA-T**.-20 (Screw Mounting)

CA-G**.*-*20 (Gasket Mounting)

Sub Plate  MCA-03-20
MCA-06-21
MCA-10-20

Note: External appearance of the sub-plate is slightly different from the drawing depending on the size.

Model No. | LA  | HA  | HB  | HC  | HD  | DA  | DB  | Q  | X
---|---|---|---|---|---|---|---|---|---
CA-T03-*.-20 | 59  | 91  | 81  | 45  | 10  | 52  | 40  | 3/8| 8
CA-T06-*.-20 | 72  | 106 | 96  | 55  | 10  | 60  | 45  | 3/4| 16
CA-T10-*.-20 | 96  | 139 | 127 | 70  | 12  | 80  | 62  | 1 1/4|

Model No. | LA  | BB  | BC  | HA  | HC  | HD  | HE  | HF  | HG  | DA  | DB  | D
---|---|---|---|---|---|---|---|---|---|---|---|---
CN-T10.-11  | 130 | 69.3| 60  | 1 1/4| 1 1/4| 1 1/4| 1 1/4| 1 1/4| 1 1/4| 1 1/4| 1 1/4|
Hydraulic Operating Fluid Kinematic Viscosity 32mm²/s

Performance Curves

Pressure Loss Characteristics
CA-*03 CN-T03

Applicable Valve Type
a. CA-*03-1-20
b. CA-*03-2-20
c. CA-*03-3-20
d. CN-T03-1-11
e. CN-T03-2-11
f. CN-T03-3-11

CA-*06 CN-T06

Applicable Valve Type
a. CA-*06-1-20
b. CA-*06-2-20
c. CA-*06-3-20
d. CN-T06-1-11
e. CN-T06-2-11
f. CN-T06-3-11

CA-*10 CN-T10

Applicable Valve Type
a. CA-*10-1-20
b. CA-*10-2-20
c. CA-*10-3-20
d. CN-T10-1-11
e. CN-T10-2-11
f. CN-T10-3-11

Cross-sectional Drawing

CA-G***-20

Seal Part List (Kit Model Number DAS-***)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Name</th>
<th>Type/Part Number</th>
<th>Q’ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>O-ring</td>
<td>NBR-90 P18</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>O-ring</td>
<td>NBR-90 P22</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: The materials and hardness of the O-ring conforms with JIS B2401.
*** in the kit number is used for specification of the valve size (G03, G06, G10, etc.)