

## Models

| Model                | CH2E                    | CH2F            | CH2G  | CH2H            |
|----------------------|-------------------------|-----------------|-------|-----------------|
| Tube material        | Aluminum alloy          | Stainless steel | Steel | Stainless steel |
| Nominal pressure MPa | 3.5                     | 7               | 14    | 14              |
| Bore size mm         | 32, 40, 50, 63, 80, 100 |                 |       |                 |
| Auto switch mounting | Applicable              | Applicable      | —     | Applicable      |

## Specifications

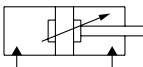
| Model                          | CH2E                                                                                                                                                                                                                         | CH2F                                     | CH2G                                    | CH2H |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|------|
| Action                         | Double acting/Single rod                                                                                                                                                                                                     |                                          |                                         |      |
| Fluid                          | Hydraulic fluid                                                                                                                                                                                                              |                                          |                                         |      |
| Nominal pressure MPa           | 3.5                                                                                                                                                                                                                          | 7                                        | 14                                      |      |
| Maximum allowable pressure MPa | 3.5                                                                                                                                                                                                                          | Rear: 9<br>Front: B rod 13.5<br>C rod 11 | Rear: 18<br>Front: B rod 18<br>C rod 14 |      |
| Proof pressure MPa             | 5.0                                                                                                                                                                                                                          | 10.5                                     | 21                                      |      |
| Minimum operating pressure MPa | Rear: 0.15<br>Front: 0.2                                                                                                                                                                                                     |                                          |                                         |      |
| Ambient and fluid temperature  | Without auto switch -10 to 80°C<br>With auto switch -10 to 60°C                                                                                                                                                              |                                          |                                         |      |
| Piston speed                   | 8 to 300mm/s                                                                                                                                                                                                                 |                                          |                                         |      |
| Cushion                        | Cushion seal type                                                                                                                                                                                                            |                                          |                                         |      |
| Thread tolerance               | JIS class 2                                                                                                                                                                                                                  |                                          |                                         |      |
| Stroke length tolerance        | to 100st <sup>+0.8</sup> <sub>0</sub> , 101 to 250st <sup>+1.0</sup> <sub>0</sub> , 251 to 630st <sup>+1.25</sup> <sub>0</sub> ,<br>631 to 1000st <sup>+1.4</sup> <sub>0</sub> , 1001 to 1800st <sup>+1.8</sup> <sub>0</sub> |                                          |                                         |      |

Note) The maximum allowable pressure is the maximum value allowable for pressure generated inside the cylinder (surge pressure, etc.).



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JIS symbol



## Auto Switch Mounting Bracket Part Nos.

| Model | Bore size (mm) | Auto switch type     |                      |                      |
|-------|----------------|----------------------|----------------------|----------------------|
|       |                | D-A3, A4<br>D-G3, K3 | D-B5, B6<br>D-G5, K5 | D-A5, A6<br>D-F5, J5 |
| CH2E  | 32             | —                    | BA-32                | BT-06                |
|       | 40             | BD1-04M              | BA-04                | BT-06                |
|       | 50             | BD1-05M              | BA-05                | BT-06                |
|       | 63             | BD1-06M              | BA-06                | BT-08                |
|       | 80             | BD1-08M              | BA-08                | BT-16                |
|       | 100            | BD1-10M              | BA-10                | BT-18                |
| CH2F  | 32             | —                    | BAF-32               | BT-06                |
|       | 40             | BDS-04M              | BAF-04               | BT-06                |
|       | 50             | BDS-05M              | BAF-05               | BT-06                |
|       | 63             | BDS-06M              | BAF-06               | BT-08                |
|       | 80             | BDS-08M              | BAF-08               | BT-16                |
|       | 100            | BDS-10M              | BAF-10               | BT-18                |
| CH2H  | 32             | —                    | BGS1-032             | BT-06                |
|       | 40             | BD1-04M              | BH2-040              | BT-06                |
|       | 50             | BD1-05M              | BH2-050              | BT-06                |
|       | 63             | BD1-06M              | BA-06                | BT-08                |
|       | 80             | BH1-080              | BH2-080              | BT-16                |
|       | 100            | BH1-100              | BH2-100              | BT-18                |

## Standard Strokes

| Cylinder bore size (mm) | Standard stroke (mm) | Long stroke (mm)                                                     |
|-------------------------|----------------------|----------------------------------------------------------------------|
| 32                      | 25 to 800            | 1800 (1401 or more with tie-rod reinforcing ring) <sup>Note 2)</sup> |
| 40                      | 25 to 800            | 1800 (1401 or more with tie-rod reinforcing ring) <sup>Note 2)</sup> |
| 50                      | 25 to 800            | 1800 (1401 or more with tie-rod reinforcing ring) <sup>Note 2)</sup> |
| 63                      | 25 to 800            | 1800 (1501 or more with tie-rod reinforcing ring) <sup>Note 3)</sup> |
| 80                      | 25 to 1000           | 1800                                                                 |
| 100                     | 25 to 1000           | 1800                                                                 |

Note 1) Operate after referring to the technical data 2 stroke selection tables on pages 27 and 28 regarding stroke limitations based on type of mounting brackets. Furthermore, long stroke ranges differ depending on the type of mounting brackets.

Note 2) The stroke for CH2G is up to 1400mm with mounting brackets other than types B, LA, LB and TC.

Note 3) The stroke for CH2G is up to 1500mm with mounting brackets other than types B, LA, LB and TC.