

# Outline

## 3. Model codes

$\frac{FF}{a} - \frac{20}{b} \frac{B}{c} \frac{T1}{d} - \frac{S}{e}$

### a. Series code

FF: Medium liquid temperature

### b. Maximum flow rate

FF-10 : 10 L/min

FF-20 : 20 L/min

### c. Cylinder materials

B : Aluminium+4F coating

C : PVC

### d. Pump connection (Inlet/Outlet)

T1 : Tube (standard)

### e. Special specifications

No symbol : Standard

S : Special specifications

## 4. Specifications

|                  | Item  | FF-10BT1                                    | FF-10CT1 | FF-20BT1                                     | FF-20CT1 |
|------------------|---|---|----------|--|----------|
| General          | Max. flow rate*1                            | 10 L/min                                    |          | 22 L/min                                     |          |
|                  | Max. stroke rate                            | 120 spm                                     |          |  |          |
|                  | Max. stroke length                          | 18mm  |          | 24mm   |          |
|                  | Suction lift*2                              | 1 m   |          | 2 m  |          |
|                  | Liquid temperature range                    | 5-100°C                                     | 5-50°C   | 5-100°C                                      | 5-50°C   |
|                  | Max. supply air pressure                    | 0.294MPa                                    |          |  |          |
|                  | Wet ends                                    | PFA, PTFE                                   |          |  |          |
|                  | Pump connection*3                           | PFA 1/2" tube<br>(O.D. 12.7 × I.D. 9.52 mm) |          | PFA 3/4" tube<br>(O.D. 19.05 × I.D. 15.83mm) |          |
|                  | Supply air connection                       | Rc 1/4"                                     |          |  |          |
|                  | Max. air consumption<br>(at max. flow rate) | 90NI/min                                    |          | 180NI/min                                    |          |
|                  | Ambient temperature range                   | 0-40°C                                      |          |  |          |
|                  | Driving method                              | Pneumatic drive                             |          |  |          |
| Proximity switch | Model                                       | High-frequency proximity switch             |          |  |          |
|                  | Output                                      | NPN DC open/close output                    |          |  |          |
|                  | Power voltage                               | 10-30VDC                                    |          |  |          |

\*1. The maximum flow rate is based on pumping ambient clean water.

\*2. The suction lift is based on pumping ambient clean water at the maximum spm.