

# Water Pump JW-3

## ■ Specification

Power supply	100 V-240 V~ 50/60 Hz	
Power consumption (rated)	0.9-0.4 A	
Fuse	T 2.5 A H 250 V x 2	
Water supply pressure	0.3 MPa	
Water flow rate	When using the instrument channel tube or disposable instrument channel tube	400 - 700 mL/min
	When using the water jet tube or disposable water jet tube	60 - 190 mL/min
	When using the disposable therapeutic tube	80 - 190 mL/min
Maximum water flow rate	When using the instrument channel tube or disposable instrument channel tube	840 mL/min
	When using the water jet tube or disposable water jet tube	220 mL/min
	When using the disposable therapeutic tube	209 mL/min
Type of pump	Peristaltic pump	
Tank capacity	2000 mL	
Operation method	Turned on/off using a foot switch	
Flow rate adjustment	Unstepped continuously variable	
Dimensions(W×H×D)	215 mm × 168 mm × 289 mm (excluding projections)	
	215 mm × 175 mm × 334 mm (including water tank)	
Mass	3.0 kg (main unit)	
	3.4 kg (including the empty water tank)	

Product name: Water Pump JW-3 GMDN: 63646 Generic name: Surgical irrigation pump

## ■ Accessories

★: Included in the package  
The number of packages indicates the quantity as an optional item.

	Re-usable items	Single-use items (Sterile)	
For Instrument Channel	 <p><b>Instrument Channel Tube JT-3RC</b> 1pc/pack Total tube length: 2230 mm Product name: Instrument Channel Tube JT-3RC GMDN: 64108 Generic name: Suction/irrigation tubing, reusable</p>	 <p><b>Instrument Channel-Joint Tube JT-3RC2</b> 5pcs/pack Total tube length: 195 mm Product name: Instrument Channel Tube JT-3RC2 GMDN: 64108 Generic name: Suction/irrigation tubing, reusable</p>	 <p><b>Disposable Instrument Channel Tube JT-3DC</b> 10pcs/pack Total tube length: 2065 mm Product name: Disposable Instrument Channel Tube JT-3DC GMDN: 60738 Generic name: Endoscopic insufflation tubing set, single-use</p>
For Water Jet	 <p><b>Water Jet Tube JT-3RW ★</b> 2pcs/pack Total tube length: 1340 mm Luer Connector Product name: Water Jet Tube JT-3RW GMDN: 64108 Generic name: Suction/irrigation tubing, reusable</p>	 <p><b>Disposable Water Jet Tube JT-3DW</b> 10pcs/pack Total tube length: 1330 mm Luer Connector Product name: Disposable Water Jet Tube JT-3DW GMDN: 60738 Generic name: Endoscopic insufflation tubing set, single-use</p>	
For Therapeutic device		 <p><b>Disposable Therapeutic Tube JT-3DT</b> 10pcs/pack Total tube length: 3350 mm Luer Connector Product name: Disposable Therapeutic Tube JT-3DT GMDN: 60738 Generic name: Endoscopic insufflation tubing set, single-use</p>	
Water tank	 <p><b>Water Tank WT-3JW ★</b> 2pcs/pack Product name: Water Tank WT-3JW GMDN: 63646 Generic name: Surgical irrigation pump</p>		



## ■ Related Products



Specifications are subject to change without notice.



- Available for 3 use: Instrument Channel, Water jet, and therapeutic device (FlushKnife Slim: DK2620JI and DK2623JI).
- Various devices for usability support smooth examination and treatment.
- Designed for infection control and safety use.

# 3 water supply modes for a wide range of applications from examination to treatment. Water pump considering usability and infection control

## 1 Wide range of application

### 3 water supply mode: instrument channel, water jet, and therapeutic device

By flushing water from JW-3, the mucous membranes and lesions of the digestive tract are washed, supporting the ease of endoscopic diagnosis and treatment. JW-3 has 3 water supply mode:

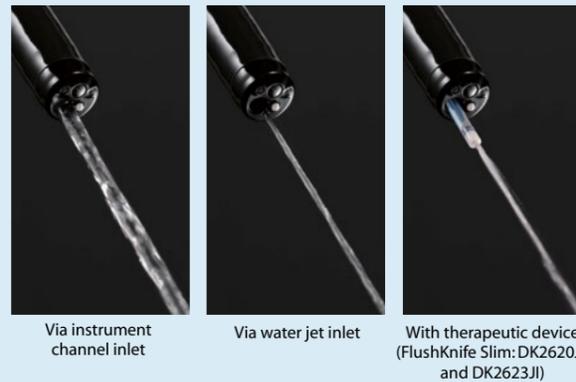
- via endoscope-instrument channel inlet.
- via endoscope-water jet inlet.
- through FlushKnife Slim (DK2620JI and DK2623JI).

This system can be used for a wide range of applications from examinations to treatment including ESD (Endoscopic Submucosal Dissection).

### High performance for water irrigation

JW-3 main unit recognizes which tube is connected by the tube detector connector joint attached to each tube. The drive of pump motor is controlled according to the detected tube. In addition, different water flow rates are designed for each tube with the aim of achieving both comfortable water response and stop performance and supporting endoscopic procedures.

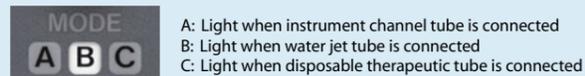
### 3 water supply mode



### Water Flow Rate

A: Instrument channel tube	400-700 mL/min.
B: Water jet tube	60-190 mL/min.
C: Disposable therapeutic tube	80-190 mL/min.

### Detected Tube Display



## 3 For infection prevention and safety

### Autoclavable tubes and water tank, Disposable tubes

Both tubes (JT-3RC, JT-3RC2, and JT-3RW) and water tank are autoclavable for effective sterilization and are re-usable. In addition, sterilized disposable tube (JT-3DC, JT-3DW, and JT-3DT) can be selected in view of infection management of hospital.

### A lineup for therapeutic device (FlushKnife Slim: DK2620JI and DK2623JI) connection tube capable of submucosal injection

JT-3DT, designed for therapeutic device (FlushKnife Slim: DK2620JI and DK2623JI) is a disposable tube that connects to a saline bag via a port connector. By combining this tube with FlushKnife Slim: DK2620JI and DK2623JI, it's possible to inject saline solution into the submucosal layer in ESD treatment.



Tip of JT-3DT to connection to saline bag

### For safety use, to avoid human error

If the cover of the pump head is opened during operation, operation is automatically stopped to protect users from injuries and accidents.

The tube detector automatically recognizes which tube is set. In consideration of safety use, the maximum flow rate is set for each tube. During continuous flowing, water supply is automatically stopped once at the set time for each type of detected tube. These are designed to avoid human error.

### Max. Water Flow Rate and Automatic Cut-off Timer

Tube Type	Max. Water Flow Rate	Automatic Cut-off Timer
A: Instrument channel tube	840 mL/min.	approx. 20-seconds
B: Water jet tube	220 mL/min.	approx. 20-seconds
C: Disposable therapeutic tube	209 mL/min.	approx. 8-seconds

## 2 Various devising for usability support smooth examination and treatment

Flexible and less bending tendency tube material is adopted for water supply tubes. Due to its characteristics, it reduces the trouble of correcting bending habits before use.

Re-usable / Disposable distinction and tube type can be recognized by the color and text of the tube detector connecting joint.



Bright Green: Re-usable tube  
White: Disposable tube

Newly developed pump head that allows intuitive attachment and detachment of tubes.



When the cover is open

Flow adjustment knob provides easy adjustment of flow rate

Compact design aiming to save necessary space on workstations and carts.

Re-usable water tank that can hold 2L of water despite its slim design, with MAX/MIN line for pouring water. Also tubes have indicator line as a guide for insertion into the water tank.

LED backlight with enough brightness and easy to see in a dark room.

Main unit design considering its cleanability.

