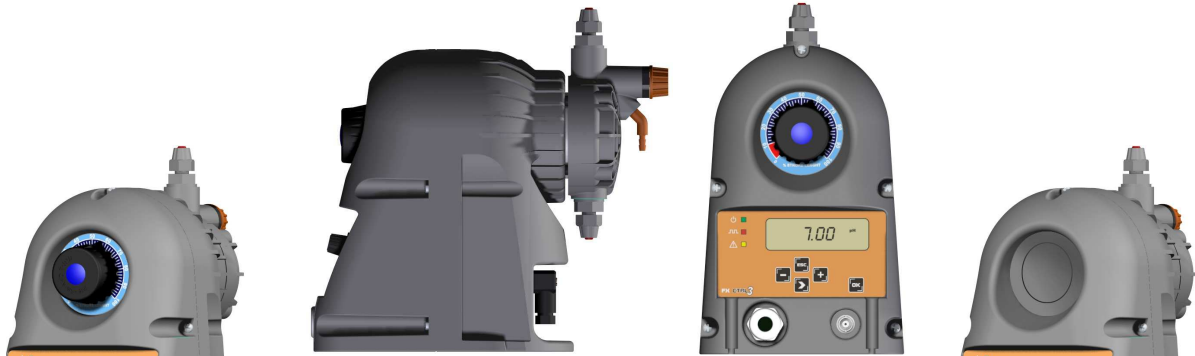


# FX CTRL 3 FXS CTRL3

## Solenoid driven dosing pump



**FX CTRL 3**  
 with stroke adjustment

**FXS CTRL 3**  
 without stroke adjustment

These series includes both a dosing pumps and high tech controllers which features three parameters all in one enclosure: PH or RX (ORP) or Cl (free chlorine).

**BENEFITS:** reducing stock value against a great quality and versatility.

### Three different controllers and a dosing pump in one box

#### Common key features:

- ⇒ **pH:** measuring range 0÷14,00 pH (resolution 0,01pH)
- ⇒ **RX:** measuring range: -1000÷ +1400 mV (resolution 1mV)
- ⇒ **Free chlorine\*:** range: 0÷20,00 ppm (resolution 0,1ppm)
- \*Cl<sub>2</sub> suitable either with membrane-potentiostatic Chlorine sensors or amperometric open chlorine cells (latter upon request)
- 2 Reset modes: - full reset - partial reset keeping settings
- Proportional mode: selection of proportional range value
- Delay adjustment
- Delay at powering ON the pump (electrodes polarization)
- Hysteresis regulation
- Setting for proximity switch to stop operations in case of no water into the electrode cell holder
- Password setting
- 4-20 mA output for chart recorder with calibration of mA output
- Stand-by for cleaning electrodes and sensors or re-calibration

#### COMMON KEY FEATURES

- ⇒ Pump flow rate control
- ⇒ Microcontroller technology
- ⇒ Back-lit LCD display, digital controls
- ⇒ PTFE diaphragm
- ⇒ Stroke frequency control
- ⇒ Stroke length adjustment (FX)
- ⇒ LED display status
- ⇒ Air Bleed valve for priming
- ⇒ Plastic housing, reinforced Polypropylene
- ⇒ IP65 protection rating
- ⇒ models FX-FXS CTRL3/L include level probe
- **Alarm functions:**
  - Over-dosing alarm time value
  - Alarm for set point minimum lower value
  - Alarm set point Maximum higher value

CTRL3 dosing pump with integral controller is NOT provided with electrodes and sensors which are available upon request. Please contact FWT sales office for these items.

### FX CTRL FEATURE TWO VERSIONS WITH TWO OPERATING MENUS:

#### FX CTRL 3a

- ⇒ **ADVANCED SETTING** offers the following functions :
  - Temperature measurement °C or °F
  - Suitable for Temperature probe PT100
  - Alarm functions and setting with relay output connector

#### FX CTRL 3b

- ⇒ **BASIC SETTING**
  - All the features above listed features WITHOUT temperature function and relays outputs connectors

### PUMPS MAIN FEATURES

Power supply: **230 Vac (±10-15%) - 1 phase - 50/60 Hz**  
 Reproducibility under standard conditions: **± 5%**  
 Plastic housing and support: **PP reinforced, IP65**  
 Connectors: **4 pole**  
 Upon request: **110 Vac/60 Hz**  
 Ambient working temperature: **45°C**  
 Voltage working range: **min.207V + Max 253 V**  
 Voltage Peak: **Max 270 V**

Pumps are provided with **Standard Accessories Kit:**

- 1 - Injection valve;
- 2 m - Discharge Hose PE semi-rigid (white);
- 2 m - Suction Hose PVC flexible (transparent);
- 1,5 m - Air Bleed Hose PVC flexible (transparent);
- 1 - Foot Valve / Filter

Pumps are also provided upon request with **Level control switch (CTRL3/L model)**

All the products are manufactured according **CE regulations**

## TECHNICAL CHARACTERISTICS

Pump type	Max Flow / Max Pressure l/h bar	Start up* performance l/h bar	Output per stroke	Stroke length	Pump head type	Power / Current consumption
1,5-10	1,5 10	1,5 10	0,21 cc (ml)	0,80 mm	PP 3/8"	37 watts/0,16 Amp
2,5-15	2,5 15	2,5 15	0,34 cc (ml)	0,80 mm	PP 3/8"	37 watts/0,16 Amp
03-20	3 20	3,6 20	0,49 cc (ml)	1,00 mm	PVC20b3/8"	58 watts/0,25 Amp
5,5-07	5,5 7	6 7	0,77 cc (ml)	1.00 mm	PP 3/8"	37 watts/0,16 Amp
05-12	6 12	6,2 12	0,84 cc (ml)	1.00 mm	PP 3/8"	58 watts/0,25 Amp
08-09	8 9	7,5 9	1,10 cc (ml)	1.40 mm	PP 3/8"	58 watts/0,25 Amp
14-04	14 4	17,6 4	1,96 cc (ml)	2.20 mm	PP 3/8"	58 watts/0,25 Amp
22-02	22 2	23 2	3,08 cc (ml)	2.20 mm	PP 20L3/8"	58 watts/0,25 Amp

Max strokes frequency: 120 per min

Hose size: 4 x 6 mm (available 6x8 fittings)

Power supply: 230Vac – single phase 50-60 Hz

Max suction lift: 2 m

**\*NOTE:** "Start up" refer to pump starting performances; such performances are constant only if duties are not for continuous working and/or for time periods not over than 30/40 min. continuously and with at least 15 minutes rest.

## LIQUID ENDS

PARTS IN CONTACT WITH LIQUID	STANDARD VERSION	UPON REQUEST
Pump head	PP <sup>MEMO1 - MEMO2</sup>	PVDF; PMMA <sup>MEMO3 / NOTE</sup> ; AISI316
Diaphragm	PTFE	-----
Ball check valve	CERAMIC	AISI 316
Pump head Nipples / Hose-nut	PP	PVDF; AISI 316
Seals / O-rings	FPM (Viton ®)	EPDM (Dutral®); NBR; SILICON
Injection Fitting	PP	PVDF ; AISI 316; PTFE
Injection No-Return Valve (sleeve)	FPM (Viton ®)	EPDM (Dutral®); NBR; SILICON
Foot "Lip" type check valve	FPM (Viton ®)	EPDM (Dutral®); NBR; SILICON
Filter body / Filtering media	PP / GLASSWOOL	PVDF; AISI 316
Suction Hose / Air Bleed hose4x6mm	PVC flexible	PVDF; PTFE
Discharge Hose 4x6mm	PE semi-flexible	PVDF; PTFE

### OTHER OPTIONS AND SPECIAL CONFIGURATIONS UPON REQUEST:

Reed type "Lip" Valve	FPM (Viton ®)	EPDM (Dutral®); NBR; SILICON
Hastelloy spring foot ball valve/Fitting	HASTELLOY/CERAMIC/PP-PVC	PVDF; AISI 316
Hastelloy spring injection valve/Fitting	HASTELLOY / PYREX / PP-PVC	PVDF; AISI 316
Automatic auto-bleed pump head	PVDF AUTO BLEED <sup>NOTE</sup>	-----
Aggressive chemicals configuration	PVDF acid configuration <sup>MEMO4</sup>	-----

**MEMO 1:** pump head type 03-20 and 22-02 do not feature air bleed valve

**MEMO 2:** type 03-20 mounts PVC pump head

**MEMO 3:** polymer viscous liquid configuration: PMMA pump head, Ceramic ball checks (Ø11), Fittings PP1/2", seals FPM or EPDM, Injection fitting and Strainer (without no- return valve), suction hose PVC flex.10x14, discharge hose PE 10x14.

**MEMO 4:** aggressive chemical configuration: PVDF pump head/fittings, double Ceramic ball check valves, o-rings/seals FPM (or EPDM or PTFE), Foot valve "LIP" type, injection/ no-return ball with hastelloy spring, hoses PVDF

**NOTE** Using AUTO-BLEED or Polymer PMMA configuration, pump pressure performance decreases of about 50%

Net weight: 3÷3,6 kg

Packing weight: 3,4÷4 kg

Carton size (mm):  
330x250x220

