



China Patent No. : ZL02220153.X,
ZL200820037030.X

Electronic Tee Valve for Water Treatment Systems

42020 (Old Model: F80)

User Manual



Please read this manual in details
before using this valve and keep it properly
in order to consult in the future

0WRX.466.021

Catalogue

Notice.....	2
1.1.Main Application & Applicability	3
1.2.Product Characteristics.....	3
1.3.Product Structure and Technical Parameters	3
2. Instructions	4
2.1.Function Introduction	4
2.2.Wiring Introduction	4
2.3.Applications	5
A. Used for One in Service One Standby Softening System	5
B. Two sets of F80 Can Be Consisted As A Backwash System for Filter Material or Ultrafiltration Membrane	5
2.4. Spare Parts and Number	6
3. Warranty Card	8

Notice

- To ensure normal operation of the valve, please consult with repairing personnel for professional installation before using it
- If there is any pipeline engineering and electric works, it must be finished by professional during installation.
- Do not put the valve near the heat source, high humidity, corrosive, intense magnetic field or intense vibrations environment. And do not leave it outside.
- Please use this product within the water temperature 4~45℃ water pressure ≤ 0.6 MPa. Failure to use this product under such conditions voids the warranty.
- If the water pressure exceeds 0.6 Mpa, a pressure reducing valve must be installed in front of the water inlet.
- When the attached cables and transformer of this product needs to be changed, the replacements must come from our factory.

1. Product Overview

1.1.Main Application & Applicability

Mainly used in occasions requiring remote control.

Be applicable for

- Softening system
- Ion exchange equipment
- Backwash for ultrafiltration membrane,etc.

1.2.Product Characteristics

- Simple structure and reliable sealing

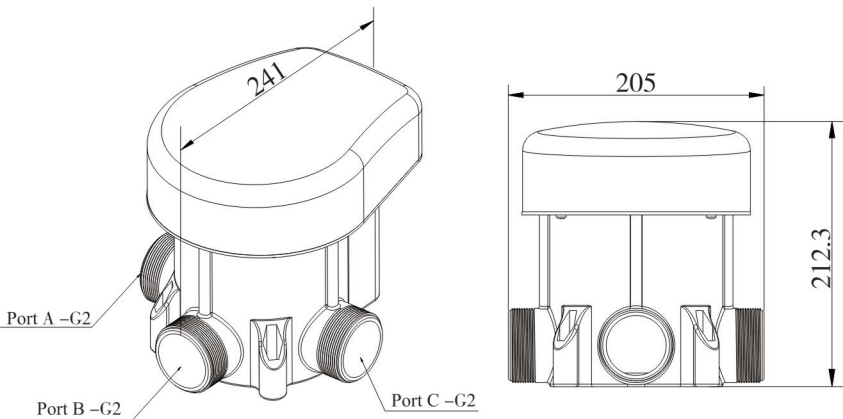
It adopts hermetic head faces with high degree pottery and corrosion resistance for opening and closing.

- Convenient Connection

Connecting two of the four signal wires to the anode and cathode of the transformer respectively to realize the function.

1.3.Product Structure and Technical Parameters

Product dimension (This is only for reference)



Technical parameters: Nominal pressure: 0.6MPa;
Max flow rate(@0.3MPa) is 20m³/h
Transformer output: DC24V, 1.5A

2. Instructions

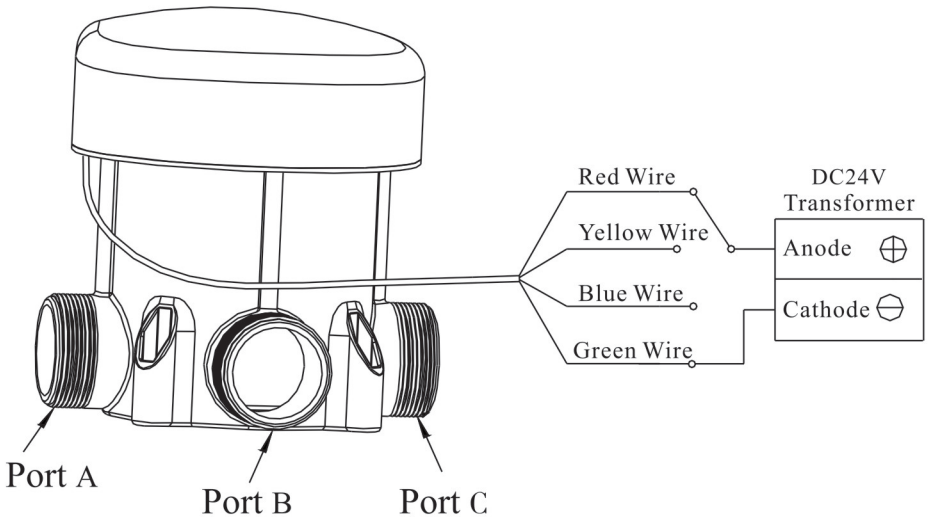
2.1.Function Introduction

There are three ports in this control valve. B is water inlet, A and C are outlets.

The water flow route could be $B \rightarrow A$, $B \rightarrow C$, or closed (Which means B do not connect with A or C).

2.2.Wiring Introduction

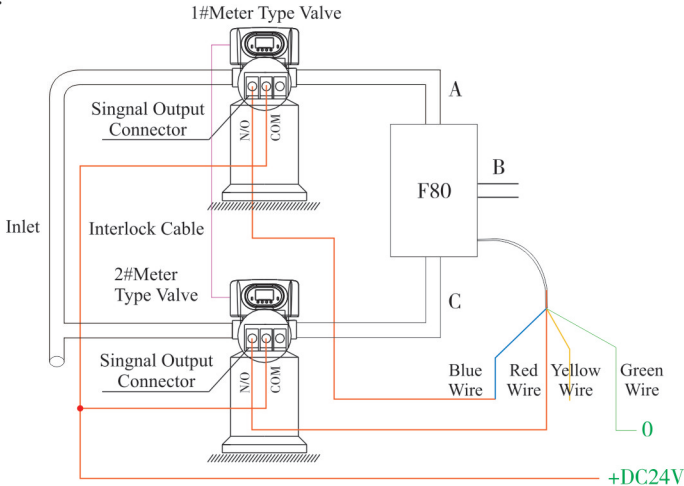
The green wire is connected with the cathode of transformer. When the red wire connected with the anode, the valve can realize water flow route $B \rightarrow A$; When the yellow wire connected with the anode, the valve is closed (Which means the three ports are not connected); When the blue wire connected with the anode, the valve can realize water flow route $B \rightarrow C$.



2.3.Applications

A. Used for One in Service One Standby Softening System

F80 can be connected with two sets of meter type softener valves (like F74A3 or F77A3) to form a softening system which has one in service one standby function. The wiring is as following:

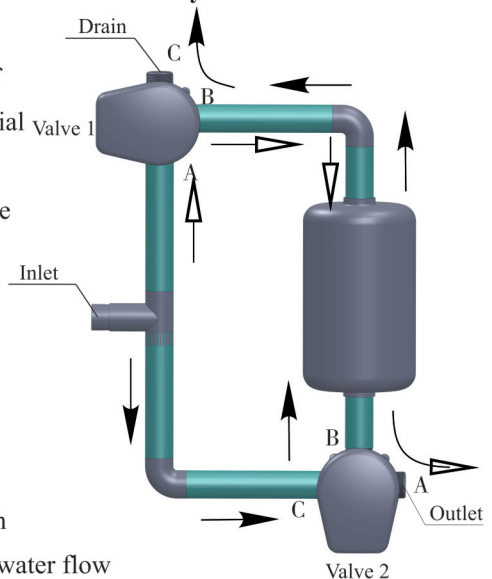


B. Two sets of F80 Can Be Consisted As A Backwash System for Filter Material or Ultrafiltration Membrane.

Through controlling device, two sets of F80 can realize backwash for filter material or ultrafiltration membrane. The process and flow chart of backwash showed as the picture.

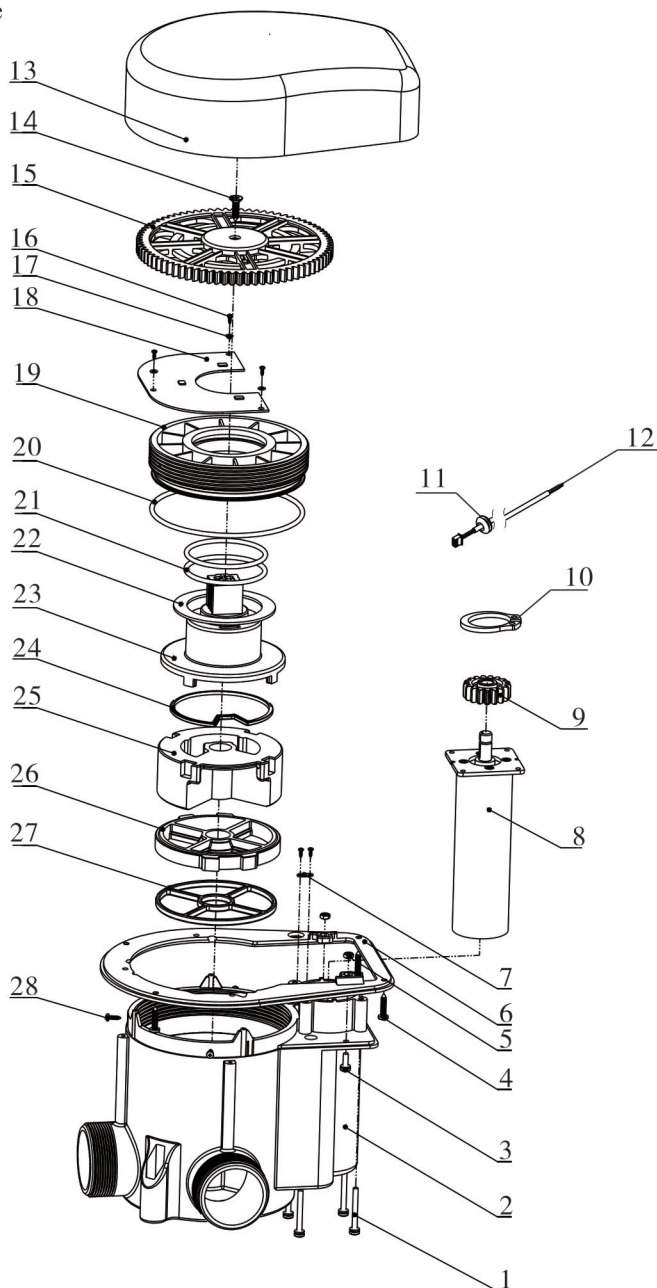
Service: valve 1 and valve 2 are both connected as A→B. The direction of the water flow route showed as the hollow arrows in the picture. And it flows out from the A of valve 2.

Backwash: Valve 1 and valve 2 are both connected as C→B. The direction of the water flow route showed as the black arrows in the picture. And it flows out from the C of valve 1.



2.4. Spare Parts and Number

F80 Structure



MODEL:F80/42020

F80 (42020) Parts and Components

Item No.	Description	Part No.	Quantity
1	Screw Assemble, Cross Hd M4X36.5	8902012	4
2	Valve Body	8022012	1
3	Screw Assemble, Cross Hd M4X12	8902005	2
4	Screw, Cross ST3.9X16	8909016	4
5	Nut, Hex.Hd	8940002	2
6	Connection Plate	8152005	1
7	Cable Clamp	8126001	1
8	Motor	6158036	1
9	Small Gear	8241008	1
10	Circlip	8994009	1
11	φ6 Wire Cover	8123003	1
12	Wire for Power	5513021	1
13	Dust Cover	8005004	1
14	Screw, Cross ST4.8X19	8909018	1

Item No.	Description	Part No.	Quantity
15	Gear	5241004	1
16	Screw, Cross ST2.2X6.5	8909004	5
17	Washer	8952001	3
18	Main Control Board	6382042	1
19	Fitting Nut	8092005	1
20	O-ring 117.6x3.55	8378133	1
21	O-ring 59.92x3.53	8378110	2
22	Anti-friction Washer	8216006	1
23	Shaft	8258005	1
24	Moving Seal Ring	8370018	1
25	Moving Disk	8459008	1
26	Fixed Disk	8469022	1
27	Seal Ring	8370044	1
28	Screw, Cover ST2.9X9.5	8909008	3


3. Warranty Card

Dear client:

This warranty card is the guarantee proof of RUNXIN brand electronic tee valve. It is kept by client self. You could get the after-sales services from the supplier which is appointed by RUNXIN manufacturer. Please keep it properly. It couldn't be retrieved if lost.

It couldn't be repaired free of charge under the below conditions:

1. Guarantee period expired.(One year).
2. Damage resulting from using, maintenance, and keeping that are not in accordance with the instruction.
3. Damage resulting from repairing not by the appointed maintenance personnel.
4. Content in guarantee proof is unconfirmed with the label on the real good or be altered.
5. Damage resulting from force majeure.

Product Name	 Electronic Tee Valve for Water Treatment Systems				
Model			Code of Valve Body		
Purchase Company Name			Tel/Cel		
Problem					
Solution					
Date of Repairing		Date of Accomplishment		Maintenance Man Signature	

When product need warranty service, please contact with your direct supplier first, after got permission, then fill in the below content and send this card together with the product to the appointed suppliers or Runxin company.

End-user Company Name			Tel/Cel.	
Purchase Company Name			Tel/Cel.	
Model	Code of Valve Body			
Problem Description				



WENZHOU RUNXIN MANUFACTURING MACHINE CO.,LTD

ADD: NO.169, RUNXIN ROAD, SHANFU TOWN, WENZHOU, ZHEJIANG, CHINA.

TEL.:0086-577-88630038, 88576512, 85956057

FAX:0086-577-88633258

E-MAIL: sales@run-xin.com

<http://www.run-xin.com>