



Manual softener valve

MODEL:F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

Before the valve put into use, please fill in the below content so as to help us to refer in the future.

Softener System Configuration

Tank Size: Dia. _____ mm, Height _____ mm;

Resin Volume _____ L; Brine Tank Capacity _____ L;

Hardness of Raw Water _____ mmol/L; Pressure of Inlet Water _____ MPa;

Control Valve Model _____ ; Number _____ ;

Specification of Drain Line Flow Control _____ ; Injector Model _____

Water Source (Options) : Ground Water ; Filtered Ground Water ;

Tap-water ; Others _____

Parameter Set Manually

Backwash Time _____ Min.; Brine & Slow Rinse Time _____ Min.;

Brine Refill Time _____ Min.; Fast Rinse Time _____ Min.

● If there is no special requirement when purchasing product, we choose 3# injector and 3# drain line flow control for N64D and N64F; 9# injector and 5# drain line flow control for F64A and F64AC; and 5# injector and 3# drain line flow control for F64B and F64C.

Catalogue

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Notice

- To ensure normal operation of the valve, please consult with professional installation or repairing personnel before use it.
- If there are any of pipeline engineering and electric works, there must be finished by professional at the time of installation.
- Do not use the control valve with the water that is unsafe or unknown quality.
- Depending on the changing of working environment and water requirement, each parameter of softener should be adjusted accordingly.
- When the water treatment capacity is too low, please check the resin. If the reason is shortage of resin, please add; if the resin is turn to reddish brown or broken, please replace.
- Test water periodically to verify that system is performing satisfactorily.
- Sodium used in the water softening process should be considered as part your overall dietary salt intake. Contact doctor if you are on a low sodium diet.
- Ensure that there is solid salt all the time in the brine tank in the course of using, when this valve is used for softening. The brine tank should be added the clean water softening salts only, at least 99.5% pure, forbidding use the small salt.
- Do not put the valve near the hot resource or leave it outside.
- Forbidden to carry the injector body. Avoid to use injector body as support to carry the system.
- Forbidden to use the brine tube or other connectors as support to carry the system.
- Please use this product under the water temperature between 5~50℃, water pressure 0.15~0.6MPa. Failure to use this product under such conditions voids the warranty.
- If the water pressure exceeds 0.6Mpa, a pressure reducing valve must be installed before the water inlet. While, if the water pressure under 0.15MPa, a booster pump must be installed before the water inlet.
- Do not let children touch or play, because carelessness operating may cause the procedure changed.
- For demounting easily, please use strainer with male thread of M88×2 when installs N64D on the top.

1. Product Overview

1.1. Main Application & Applicability

Mainly used for softening or demineralization water treatment systems

Be suitable for

- Residential softening system
- Ion exchange equipment
- Boiler softening water system
- RO pretreatment softening system, 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. It combines with Service, Backwash, Brine & Slow Rinse, Brine Refill and Fast Rinse.

● No water pass the valve of single tank type in regeneration

● Various methods for installation

The valve can be top-mounted and side-mounted (Should be used with the side-mounted connector).

● Handle alternatives: Metal and plastic

1.3. Service Conditions

Runxin Valve should be used under the below conditions:

| Items | | Requirements |
|---------------------|-------------------------|---|
| Working conditions | Working pressure | 0.15MPa~0.6MPa |
| | Water temperature | 5℃~50℃ |
| Working environment | Environment temperature | 5℃~50℃ |
| | Relative humidity | ≤95% (25℃) |
| Inlet water quality | Turbidity | Down-flow regeneration<5FTU; UP-flow regeneration<2FTU |
| | Hardness | First grade<6.5mmol/L; Second grade<10mmol/L |
| | Free chlorin | <0.1mg/L |
| | Iron ²⁺ | <0.3mg/L |
| | CODMn | <2mg/L (O ₂) |

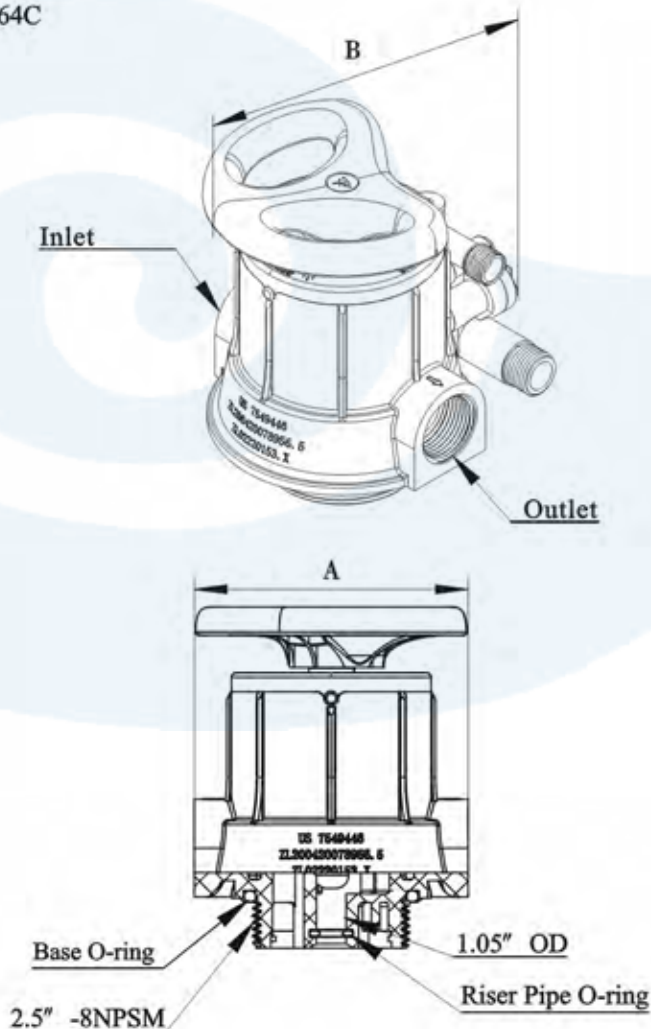
MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

- When the water turbidity exceeds the conditions, a filter should be installed on the inlet of control valve.
- When the water hardness exceeds the conditions, the outlet water hardness will hardly reach the requirement of boiler feed water (≤ 0.03 mmol/L). It is suggested to adopt second grade softener.

1.4.Product Structure and Technical Parameters

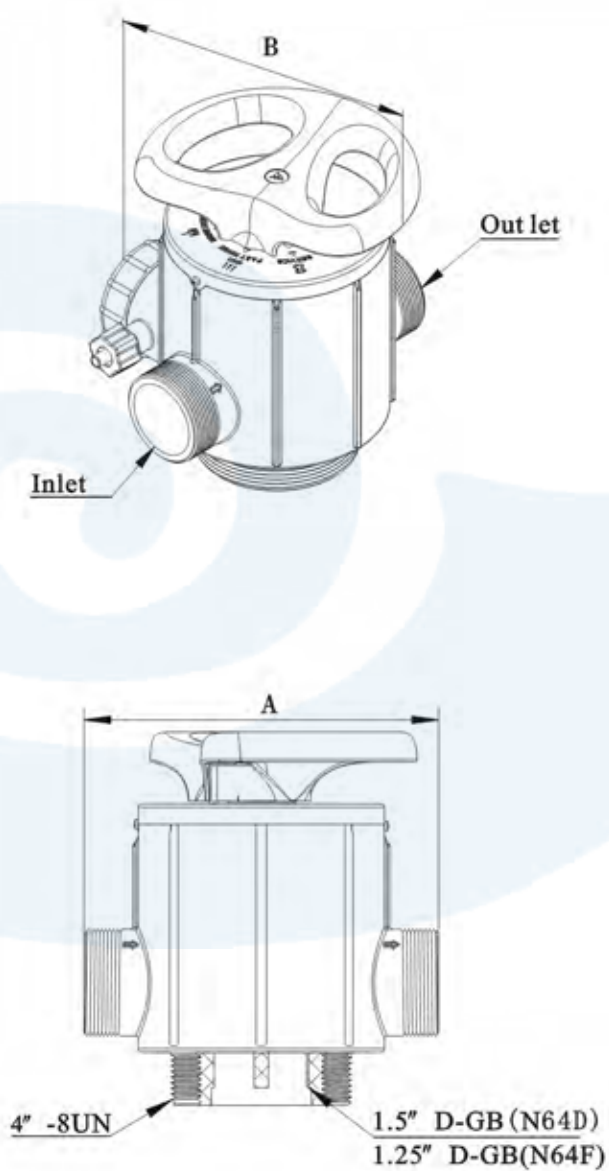
A. Appearance and Dimension (The appearance is just for reference. It is subjected to the real product.)

F64A/F64B/F64C



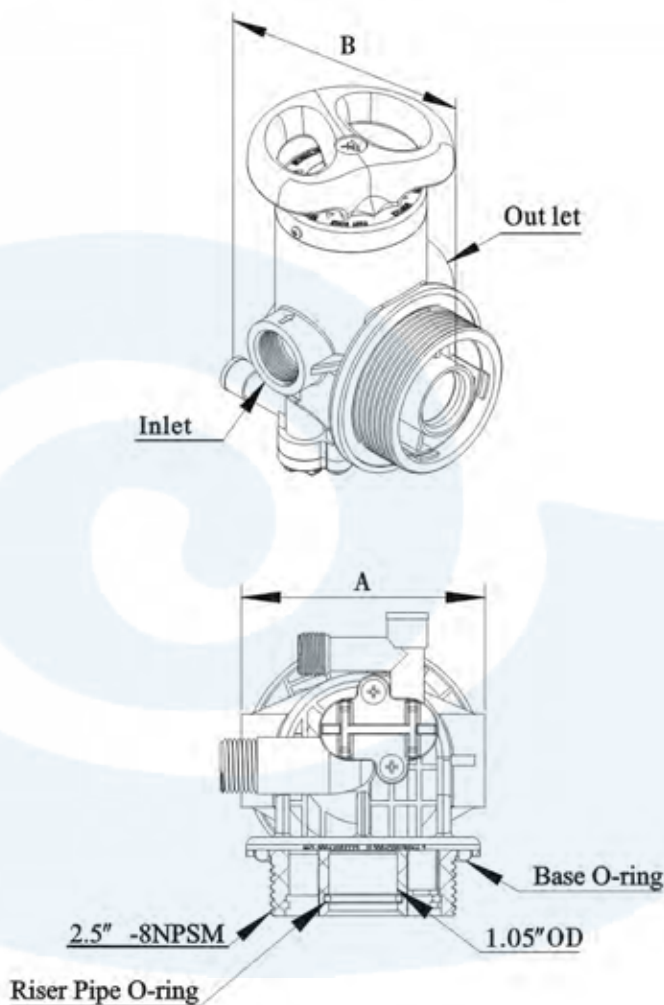
MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

N64D/N64F



MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

F64BC/F64AC



Product dimension

| Model | F64A | F64B | F64C | N64D | N64F | F64AC | F64BC |
|------------|------|-------|-------|------|-------|-------|-------|
| A max (mm) | 126 | 94 | 94 | 200 | 182 | 126 | 94 |
| B max (mm) | 162 | 130.8 | 130.8 | 198 | 187.5 | 128.5 | 117 |

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B. Technical Parameters

| Model | Connector Size | | | | | Flow Rate m ³ /h | Remark |
|---------------------|------------------|-----------------|-------------------------|-----------------|-------------|--------------------------------|--|
| | Inlet/ Outlet | Drain Outlet | Brine Line Connector | Base | Riser Pipe | | |
| F64A 61104/61204 | 1" F | 1/2" M | 3/8" M | 2.5" - 8NPSM | 1.05" OD | 4.5 | Down-flow regeneration |
| F64B 61202 | 3/4" F | 1/2" M | 3/8" M | 2.5" - 8NPSM | 1.05" OD | 2 | Down-flow regeneration |
| F64C 71202 | 3/4" F | 1/2" M | 3/8" M | 2.5" - 8NPSM | 1.05" OD | 2 | Up-flow regeneration |
| N64D 61210 | 2" M | 1" M | 1/2" M | 4" -8UN | 1-1/2" D-GB | 10 | Down-flow regeneration |
| N64F 61206 | 1-1/2" M | 3/4" M | 1/2" M | 4" -8UN | 1.25" D-GB | 8 | Down-flow regeneration |
| F64AC 61204C | 1" F | 1/2" M | 3/8" M | 2.5" - 8NPSM | 1.05" OD | 4.5 | Side- controlled and down -flow |
| F64BC 61202C | 3/4" F | 1/2" M | 3/8" M | 2.5" - 8NPSM | 1.05" OD | 2 | Side- controlled and down -flow |

Notes: M- Male Thread F- Female Thread OD- Outer Diameter D-GB- CN Standard Nominal Diameter The flow rate is related with designed flow rate, inlet pressure, media etc. The abovedata is only for reference.

1.5. Installation

A. Installation notice

Before the installation, please read the instruction carefully and prepared all the materials and tools that needed. The installation of products and pipes must be operated by professionals to ensure normal use. Perform installation according to the relative pipeline regulations and the specification of Water Inlet, Water Outlet, Drain Outlet, and Brine Line Connector.

B. Device location

- ① The closer softener to the drain point, the better.
- ② Leave a certain space for operating and maintaining conveniently
- ③ The brine tank should be close to the softener.
- ④ Do not install the valve near hot resources or in the sunlight, rain and other factors that may result in damage to the product directly.
- ⑤ Do not install the device, drain outlet and other pipes under environment where the temperature may drop below 5°C, or above 50°C.
- ⑥ Please install the system in a place where damage is least likely to occur if a leak emerges.

C. Pipeline installation

- ① Install control valve

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a. As the Figure 1-1 shows, select the riser pipe whose size measures up to specific standard. Glue the riser pipe to the bottom strainer and put it into the mineral tank. Cut off the exceeding tube out of tank top opening. Plug the riser tube in case of mineral entering.

b. Fill the mineral to the tank, and the height is accordance with the design code.

c. Remove the tap covering on the central tube. Install the top distributor to the valve.

d. Insert the riser tube through top strainer into control valve and screw tight control valve.

● The length of riser tube should be neither higher 2mm nor lower 5mm tank top opening height, and its top end should be rounded to avoid damage of O-ring inside the valve.

● Avoid floccules substance together with resin to fill in the resin tank.

● Avoid O-ring inside control valve falling out while rotating it on the tank.

② Pipeline connection

a. As the Figure 1-2 shows, a pressure gauge should be installed on the inlet pipe.

b. Install a ball valve in inlet, outlet and pipelines.

c. Install a check valve in water outlet.

d. Inlet pipeline should be in parallel with outlet pipeline. Support inlet and outlet pipeline with fixed holder.

● If the water outlet or water tank is installed higher than control valve or parallel interlock system with multi-outlets, a liquid level controller must be installed in brine tank. Or else, the water in water outlet or water tank will flow backwards into brine tank when backwash.

● If making a soldered copper installation, do all sweat soldering before connecting pipes to the valve. Torch heat will damage plastic parts.

● When turning threaded pipe fittings onto plastic fitting, use care not to cross thread or broken valve.



Figure 1-1

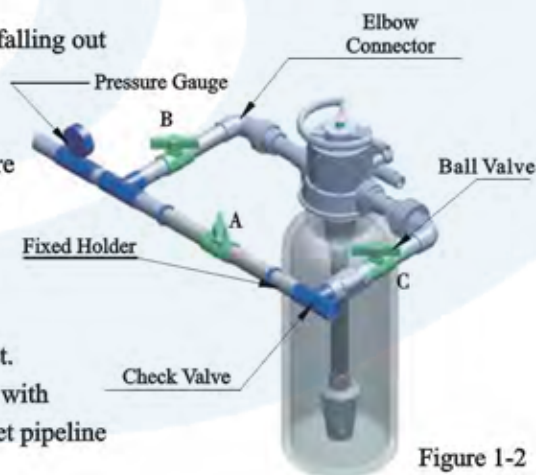


Figure 1-2

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③ Install drain pipeline

- Slide the drain hose connector into drain outlet.
- Insert drain line flow control into drain outlet.
- Screw drain hose connector into drain outlet, and lock it.
- Locate the drain hose well as the figure shows.

- Control valve should be higher than the drain outlet, and be better not far from the drain hose.
- Be sure not connect drain with sewer, and leave a certain space between them, avoid wastewater be absorbed to the water treatment equipment, such as showed in the Figure1-3.



Figure1-3

④ Connect brine tube

- As Figure1-4 shows, slide 3/8" brine tube hose connector over end of brine tube.
- Insert the tube bushing into the brine hose.
- Insert the red brine line flow control washer into the brine line connector (The cone side should face to the valve).
- Tighten brine draw hose connector onto brine line connector.
- Connect the other end of brine tube with the brine tank. (The liquid level controller and air-blocker should be installed in the brine tank.)

Attention: The brine tube and drain pipeline should not be bended or plugged.

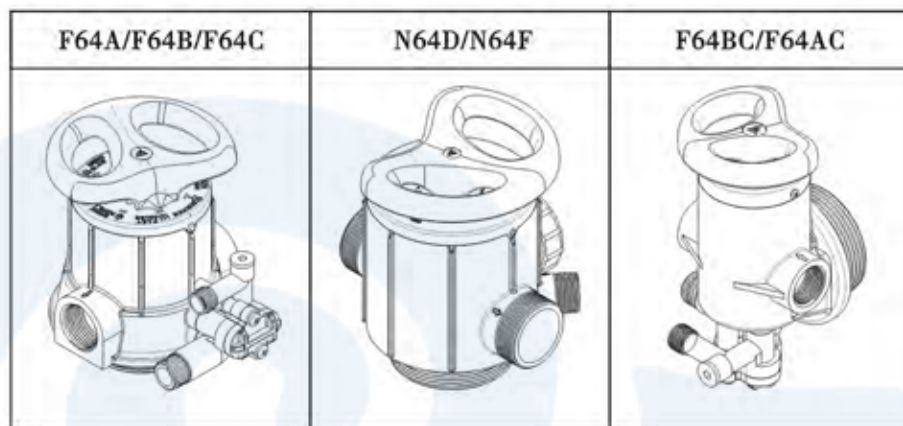


Figure 1-4

2. Usage

2.1. Hand Wheel






This series of control valve is operated by hand wheel to realize Service, Backwash, Brine & Slow rinse, Brine Refill and Fast Rinse. As the following pictures show:



Attention:

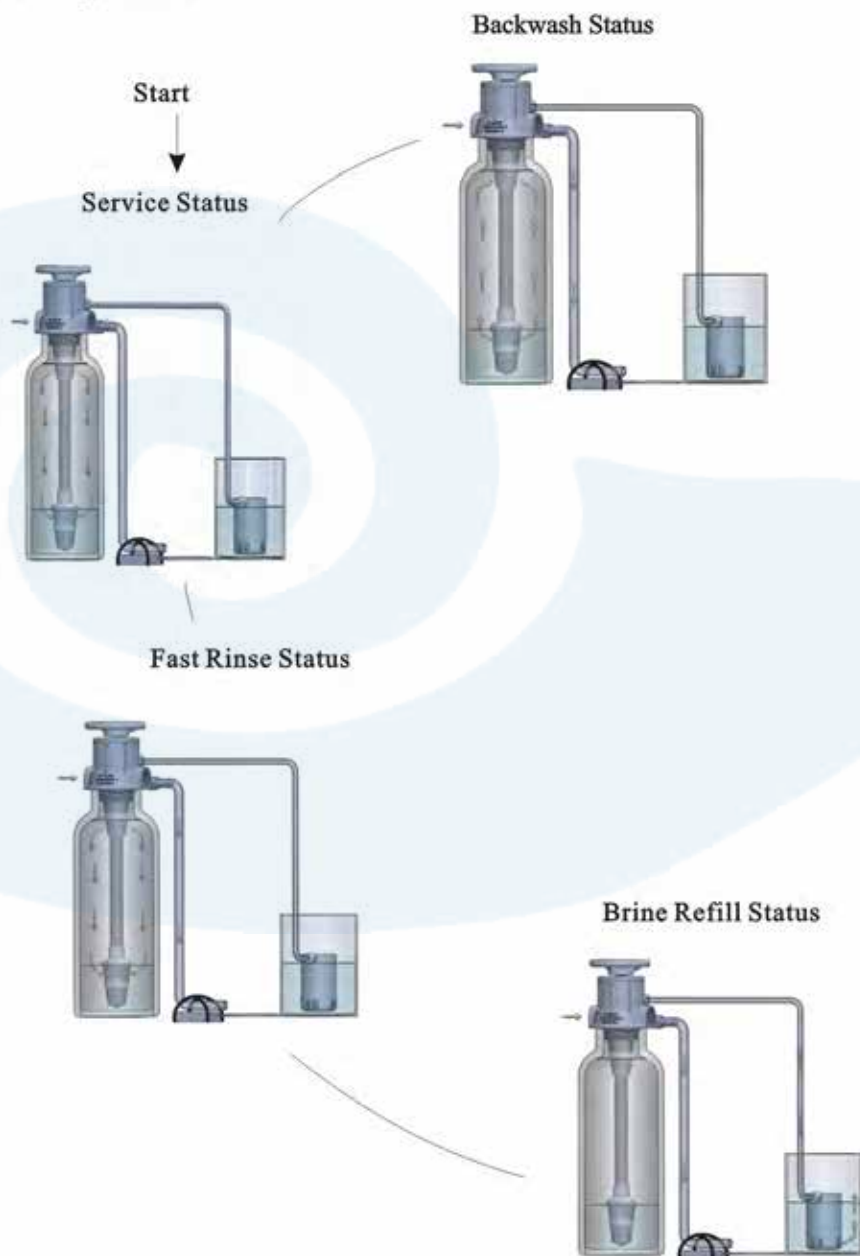
- The handle or hand wheel can only be rotated but not pull up and down.
- The arrow of the hand wheel must direct to the exact arrow on the cover. Otherwise, it may result in mix water or the flow rate cannot reach the required volume.

2.2. Figure on Decoration Cover and its English Description

| English | Figure | Description |
|-----------------|---|------------------------------|
| SERVICE |  | In Service status |
| BACK WASH |  | In Backwash status |
| BRINE & SLOW R. |  | In Brine & Slow Rinse status |
| BRINE REFILL |  | In Brine Refill status |
| FAST RINSE |  | In Fast Rinse status |

3. Applications

3.1. Working Flow Chart



MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

Down-flow Regeneration
Brine/Slow Rinse Status

Up-Flow Regeneration
Brine/Slow Rinse Status

Brine Draw Status

Brine Draw Status



Slow Rinse Status

Slow Rinse Status



MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

3.2. System Configuration and Flow Rate Curve

A. Product Configuration

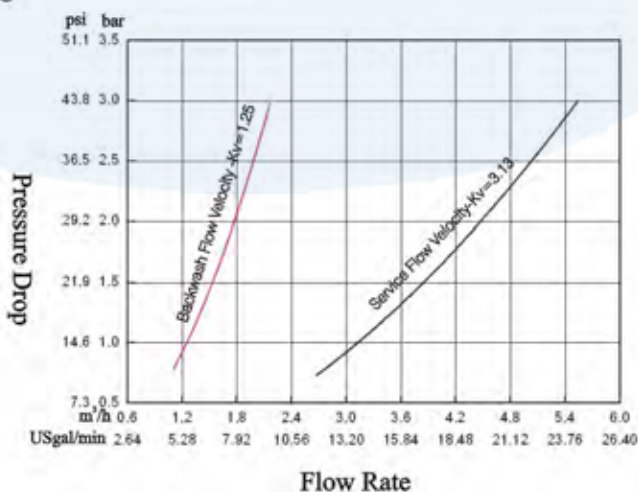
Product configuration with tank, resin volume, brine tank and injector.

| Tank Size (mm) | Resin Volume (L) | Flow Rate (t/h) | Brine Tank Size (mm) | Minimum Salt Consumption for Regeneration (Kg) | Injector Model |
|----------------|------------------|-----------------|----------------------|--|----------------|
| φ 180×1130 | 16 | 0.5 | φ 200×500 | 2.40 | 6302 |
| φ 205×1300 | 25 | 0.7 | φ 250×520 | 4.00 | 6303 |
| φ 255×1390 | 40 | 1.2 | φ 250×520 | 6.00 | 6305 |
| φ 300×1650 | 60 | 1.8 | φ 400×800 | 9.00 | 6306 |
| φ 355×1670 | 100 | 2.5 | φ 450×940 | 15.00 | 6308 |
| φ 400×1670 | 120 | 3.5 | φ 450×940 | 18.00 | 6309 |
| φ 450×1670 | 150 | 4.5 | φ 500×1060 | 22.50 | 6310 |
| φ 500×1800 | 200 | 5.0 | φ 550×1160 | 30.00 | 7401 |
| φ 600×1800 | 300 | 7.0 | φ 740×1250 | 45.00 | 7403 |
| φ 750×1800 | 450 | 11.0 | φ 840×1400 | 67.50 | 7404/7702 |

Attention: The flow rate calculation is based on linear velocity 25m/hr; the minimum salt consumption for regeneration calculation is based on salt consumption 150g / L (Resin).

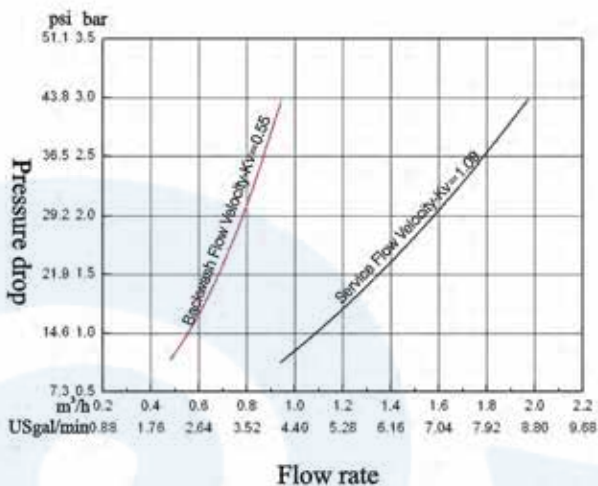
B. Flow Rate Curve

F64A/F64AC

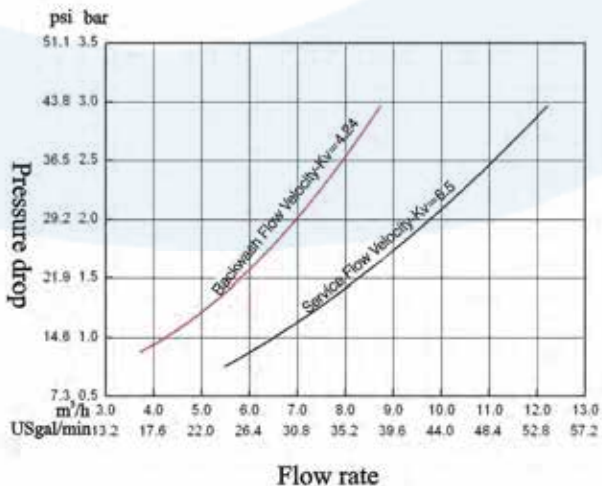


MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

F64B/F64C/F64BC



N64D



MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

C. Injector Parameter Table

| Inlet Pressure | Draw Rate (L/M) | | | | | | | | | |
|----------------|-----------------|--------------|----------------|--------------|---------------|---------------|----------------|-------------|---------------|----------------|
| | 6301 Coffee | 6302 Pink | 6303 Yellow | 6304 Blue | 6305 White | 6306 Black | 6307 Purple | 6308 Red | 6309 Green | 6310 Orange |
| 0.15 | 0.81 | 1.12 | 1.58 | 2.21 | 2.45 | 3.30 | 3.44 | 4.08 | 5.19 | 5.69 |
| 0.20 | 0.95 | 1.41 | 1.87 | 2.53 | 2.89 | 3.88 | 4.21 | 4.83 | 5.36 | 6.80 |
| 0.25 | 0.99 | 1.61 | 2.08 | 2.79 | 3.30 | 4.30 | 4.66 | 5.39 | 6.86 | 7.65 |
| 0.30 | 1.30 | 1.81 | 2.18 | 3.05 | 3.66 | 4.74 | 5.15 | 5.95 | 7.50 | 8.60 |
| 0.35 | 1.45 | 1.96 | 2.39 | 3.27 | 3.94 | 5.02 | 5.55 | 6.51 | 8.30 | 9.57 |
| 0.40 | 1.56 | 2.12 | 2.55 | 3.50 | 4.25 | 5.41 | 5.88 | 6.77 | 8.74 | 9.90 |

D. Configuration for Standard Injector and Drain Line Flow Control

| Tank Dia mm | Injector Model | Injector color | Draw Rate | Slow Rinse | Brine Refill | DLFC | Backwash / Fast Rinse |
|-------------|----------------|----------------|-----------|------------|--------------|------|-----------------------|
| | | | L/M | L/M | L/M | | L/M |
| 150 | 6301 | Coffee | 1.30 | 0.91 | 3.0 | 1# | 4.7 |
| 175 | 6302 | Pink | 1.81 | 1.32 | 3.7 | 1# | 4.7 |
| 200 | 6303 | Yellow | 2.18 | 1.73 | 3.8 | 2# | 8.0 |
| 225 | 6304 | Blue | 3.05 | 2.14 | 3.3 | 2# | 8.0 |
| 250 | 6305 | White | 3.66 | 2.81 | 4.3 | 3# | 14.4 |
| 300 | 6306 | Black | 4.74 | 3.32 | 4.2 | 3# | 14.4 |
| 325 | 6307 | Purple | 5.15 | 3.55 | 4.1 | 4# | 22.8 |
| 350 | 6308 | Red | 5.95 | 4.0 | 4.0 | 4# | 22.8 |
| 400 | 6309 | Green | 7.50 | 5.13 | 4.0 | 5# | 26.4 |
| 450 | 6310 | Orange | 8.60 | 5.98 | 3.9 | 5# | 26.4 |
| 500 | 7401 | Coffee | 16.0 | 10.56 | 23 | 1# | 46.3 |
| 550 | 7402 | Pink | 20.0 | 13.88 | 28.2 | 2# | 67 |
| 600 | 7403 | Yellow | 23.4 | 15.75 | 32.9 | 3# | 71 |
| 750 | 7404 | Blue | 36.2 | 24.17 | 50.5 | 4# | 75 |

Remark: Above data for the product configuration and relevant characteristics are only for reference. When put in practice, please subject to the different requirements of raw water hardness and application.

3.3. Parameter Settlement

① Service time T1

Water treatment capacity:

$$Q = V_r \times K \div Y_D \quad (\text{m}^3)$$

- Hardness of inlet water (mmol/L)
- Exchange factor (mmol/L), take 400~1000.
Down-flow regeneration, take 400~750.
Up-flow regeneration, take 450~1000.
If the inlet water hardness is higher, the factor is smaller.
- Resin volume (m³)

By days: $T1 = Q \div Q_d$ (Day)

- Water treatment capacity per day (m³/d)
- Water treatment capacity (m³)

② Backwash time T2

It is subject to the turbidity of inlet water. The higher the turbidity is, the longer backwash time can be set. However, if the turbidity is more than 5FTU, it is better to install a filter in front of the exchanger.

③ Brine & slow rinse time T3

$$T3 = (40 \sim 50) \times H_r \quad (\text{Min})$$

In general, $T3 = 45H_r$ (Min.)

in this formula, H_r — Resin volume (m³)

④ Brine refill time T4

Down-flow regeneration: $T4 = 0.45 \times V_r \div \text{Brine refill speed}$ (Min.)

Up-flow regeneration: $T4 = 0.34 \times V_r \div \text{Brine refill speed}$ (Min.)

In this formula: V_r — Resin volume (m³)

The brine refill speed is related to inlet water pressure. It is suggested to extend 1~2 minutes of calculated brine refilling time to make sure there is enough water in tank.

(The condition is that there is a Liquid level controller installed in the brine tank)

⑤ Fast rinse T5

$$T5 = 12 \times H_r \quad (\text{Min})$$

Generally, the water volume for fast rinse is 3 ~ 6 times of resin volume. It is suggested to be set 10 ~ 16 minutes, but subject to the outlet water reaching the requirement.

The calculation of parameters for each step is only for reference, the actual proper time will be determined after adjusting by water exchanger supplier.

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3.4. Trial Running

After installing the multi-functional flow control valve on the resin tank with the connected pipes, please conduct the trial running as follows:

A. Close the inlet valve B & C, and open the bypass valve A. After cleaning the foreign materials in the pipe, close the bypass valve A. (As Figure 1-2 shows)

B. Fill the brine tank with the calculated amount of water and adjust the air check valve. Then add solid salt to the tank and dissolve the salt as much as possible.

C. Switch hand wheel to Backwash position. Slowly open the inlet valve B to 1/4 position, making the water flow into the resin tank; you can hear the sound of air-out from the drain pipeline. After all air is out of pipeline, then open inlet valve B completely and clean the foreign materials in the resin tank until the outlet water is clean. It will take 8~10 minutes to finish the whole process.

D. Switch hand wheel to Brine & Slow Rinse position. After control valve finished drawing brine, then slow rinse start to work. The total time of brine and slow rinse is about 60~65 minutes.

E. Switch hand wheels to Brine Refill position. Brine tank is being refilled with water to the required level.

F. Switch hand wheel to Fast Rinse position. It takes about 10~15 minutes. Take out some outlet water for testing, whether the water hardness reach the requirement, and the chloridion in the water is almost the same compared with the inlet water,

G. Switch hand wheel to Service position. System start to running.

Note:

● If water inflow too fast, the media in tank will be damaged. When water inflow slowly, there is a sound of air-out from drain pipeline.

● After changing resin, please empty air in the resin according to the above Step C.

● In the process of trial running, please check the water situation in all position, ensuring there are no resin leakages.

● The time for Backwash, Brine & Slow Rinse, Brine Refill and Fast Rinse position can be set and executed according to the calculation in the formula or suggestions from the control valve suppliers.

3.5. Basic Usage

After having accomplished installation, parameter setting and trial running, the valve could be put into use. In order to ensure the quality of outlet water can reach the requirement, the user should complete the below works:

□ Ensure that there is solid salt all the time in the brine tank in the course of running.

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Test the outlet water and raw water hardness regularly time. When the outlet water hardness is unqualified, please switch hand wheel and the valve will temporary regenerate from step C to F again.

When the feed water hardness change a lot, refer to parameter settlement to adjust the cycle water capacity.

3.6. Trouble-Shooting

| Problem | Cause | Correction |
|--|--|---|
| 1. Softener supply hard water | A. Bypass valve is open or leaking. B. No salt in brine tank. C. Injector plugged. D. Insufficient water flowing into brine tank. E. Leak at O-ring on riser pipe. F. Internal valve leak. G. The bad quality of raw water. H. Shortage of resin. | A. Close or repair bypass valve. B. Add salt to brine tank and maintain salt level above water level. C. Change or clean injector. D. Check brine tank refill time. E. Make sure riser pipe is not cracked. Check O-ring and tube pilot. F. Change valve body. G. Increase the frequency of regeneration. H. Add resin to mineral tank and check the cause of resin leakages. |
| 2. Softener fails to draw brine | A. Line pressure is lower than 0.2MPa. B. Brine line is plugged. C. Brine line is leaking. D. Injector is plugged. E. Internal valve leak. F. Drain line is plugged. G. Sizes of injector and DLFC not match with tank. | A. Increase line pressure. B. Clean brine line. C. Replace brine line. D. Clean or replace new parts. E. Replace valve body. F. Clean drain line flow control. G. Select correct injector size and DLFC according to the P16 requirements. |
| 3. Pressure lost or iron in conditioned water. | A. Iron in the water supply pipe. B. Iron mass in the softener. C. Fouled resin bed. D. Too much iron in the raw water. | A. Clean the water supply pipe. B. Clean valve and add resin cleaning chemical, increase frequency of regeneration. C. Check backwash, brine draw and brine tank refill. Increase frequency of regeneration and backwash time. D. Iron removal equipment is required to install before softening. |

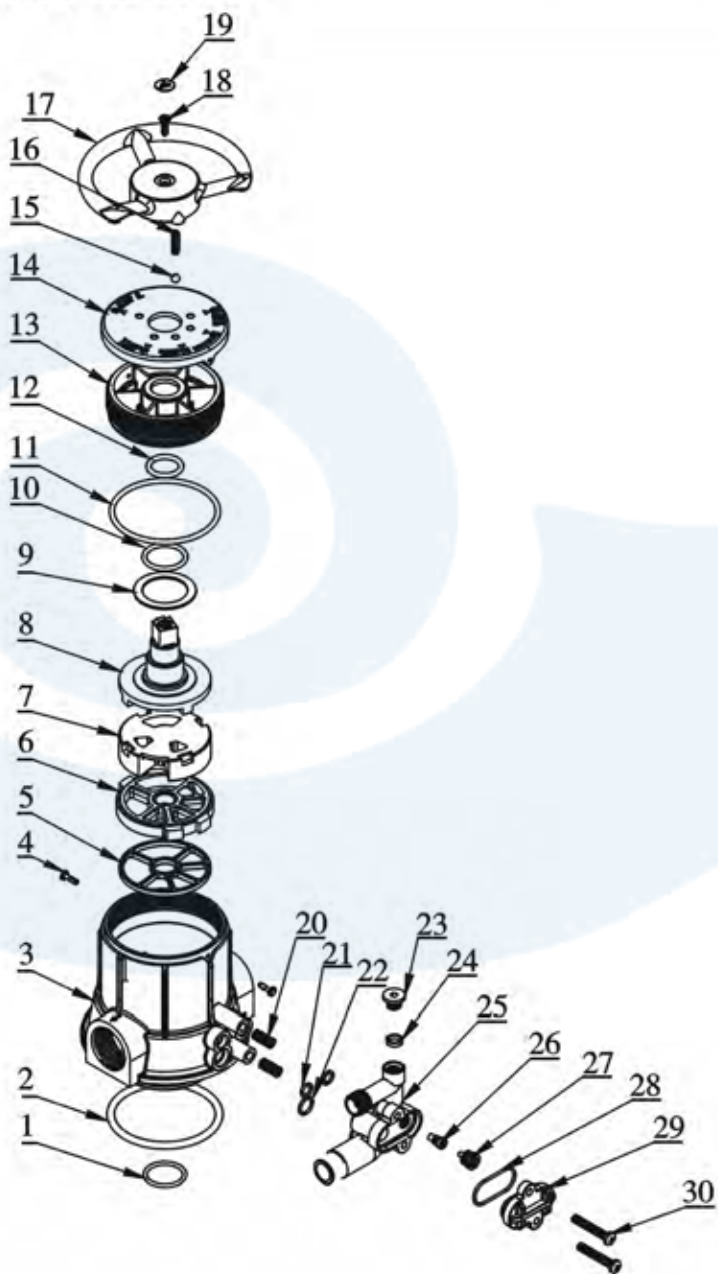
MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

| | | |
|--|--|--|
| 4. Loss of resin through drain line. | A. Air in water system. B. Bottom strainer broken. C. Improperly sized drain line control. | A. Assure that well system has proper air eliminator control. B. Replace new bottom strainer. C. Check for proper drain rate. |
| 5. Drain flows continuously. | A. Internal valve leak. B. The hand wheel is not rotated to the right position. | A. Check and repair valve body or replace it. B. Rotate the hand wheel to make sure the arrow must point to the exact arrow on the cover |
| 6. Salt water in softener water. | A. Foreign material in injector or injector fails to work. B. Brine valve cannot be shut-off. C. Time of fast rinse too short. | A. Clean and repair injector. B. Repair brine valve and clean it. C. Extend fast rinse time. |
| 7. Interrupted or irregular brine. | A. Water pressure too low or not stable. B. Injector is plugged or faulty. C. Air in resin tank. D. Floccules in resin tank during backwash. | A. Increase water pressure. B. Clean or replace injector. C. Check and find the cause. D. Clean the floccules in resin tank. |
| 8. Water flow out from drain or brine pipe after regeneration. | A. Foreign material in valve which makes valve can't be closed completely. B. Hard water mixed in valve body. C. Water pressure is too high which result in valve doesn't get the right position. D. Under the Backwash position, the outlet line and brine line are connected. | A. Clean foreign material in valve body. B. Change valve core or sealing ring. C. Reduce water pressure or use pressure release function. D. install a check valve, solenoid valve in front of the outlet or install a liquid level controller in the brine tank. |
| 9. Unit capacity decreases. | A. Unit fails to regenerate or regenerate not properly. B. Fouled resin bed. C. Raw water quality deterioration. | A. Regenerate according to the correct operation requirement. B. Increase backwash flow rate and time, and clean or change resin. C. Regenerate unit by manual temporary, then reset regeneration cycle. |

MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

3.7. Spare Part and Part No.

F64A/F64B/F64C Structure Chart



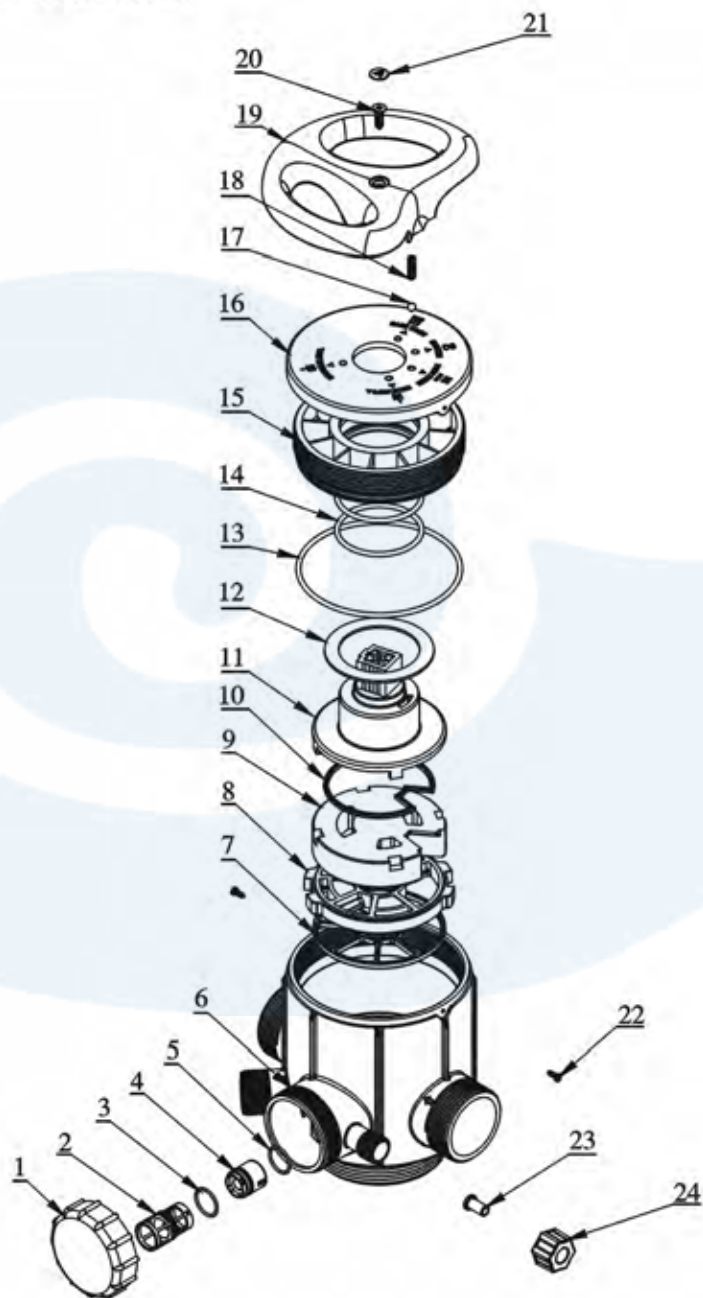
MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

F64A/F64B/F64C Component Name & Code

| Item No. | Description | Part No. | | | Quantity |
|----------|-----------------------|-------------|-------------|-------------|----------|
| | | F64A | F64B | F64C | |
| 1 | O-ring | 8378078 | 8378078 | 8378078 | 1 |
| 2 | O-ring | 8378143 | 8378143 | 8378143 | 1 |
| 3 | Valve Body (ABS+GF10) | 5022010 | 5022012 | 5022014 | 1 |
| | Valve Body (PPO+GF20) | 5022009 | 5022011 | 5022013 | |
| 4 | Screw, Cross | / | 8909008 | 8909008 | 2 |
| | Screw, Plastic | 8993002 | / | / | 2 |
| 5 | Seal Ring | 8370002 | 8370025 | 8370034 | 1 |
| 6 | Fixed Disk | 8469001 | 8469012 | 8469015 | 1 |
| 7 | Moving Disk | 8459001 | 8459013 | 8459016 | 1 |
| 8 | Shaft | 8258007 | 8258009 | 8258009 | 1 |
| 9 | Anti-friction Washer | 8216003 | 8216010 | 8216010 | 1 |
| 10 | O-ring | 8378115 | 8378078 | 8378078 | 1/2/2 |
| 11 | O-ring | 8378128 | 8378107 | 8378107 | 1 |
| 12 | O-ring | 8378113 | / | / | 1 |
| 13 | Fitting Nut | 8092003 | 8092007 | 8092007 | 1 |
| 14 | Cover | 8444007 | 8444008 | 8444009 | 1 |
| 15 | Iron Bead | 8271004 | 8271004 | 8271004 | 1 |
| 16 | Spring | 8282003 | 8282003 | 8282003 | 1 |
| 17 | Hand Wheel | 8253009 | 8253011 | 8253011 | 1 |
| 18 | Screw, Cross | 8909014 | 8909014 | 8909014 | 1 |
| 19 | Label | 8860001 | 8860001 | 8860001 | 1 |
| 20 | Inserts | 8947002 | 8947002 | 8947002 | 2 |
| 21 | O-ring | 8378016 | 8378016 | 8378016 | 2 |
| 22 | O-ring | 8378012 | 8378012 | 8378012 | 1 |
| 23 | Plug | 8323002 | 8323002 | 8323002 | 1 |
| 24 | Seal Ring | 8370003 | 8370003 | 8370003 | 1 |
| 25 | Injector Body | 8008001 | 8008001 | 8008001 | 1 |
| 26 | Throat, Injector | 8467001~010 | 8467001~010 | 8467001~010 | 1 |
| 27 | Nozzle, Injector | 8454001~010 | 8454001~010 | 8454001~010 | 1 |
| 28 | O-ring | 8378025 | 8378025 | 8378025 | 1 |
| 29 | Cover, Injector | 8315001 | 8315001 | 8315001 | 1 |
| 30 | Screw, Cross | 8902017 | 8902017 | 8902017 | 2 |

MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

N64D/N64F Structure Chart



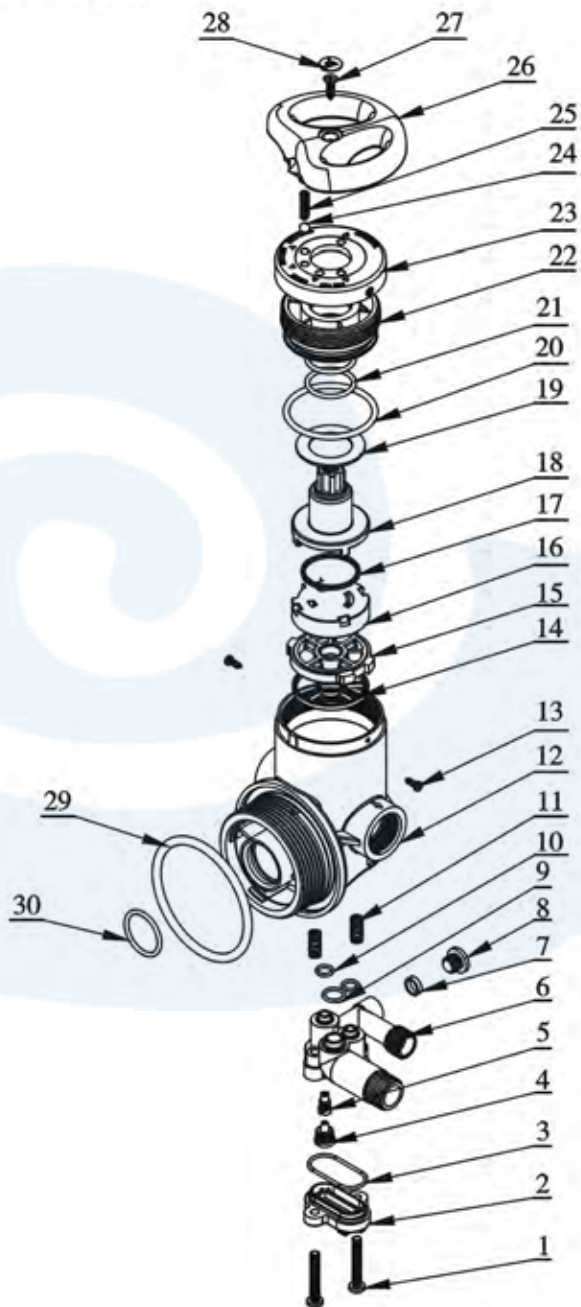
MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

N64D/N64F Component Name & Code

| Item No. | Description | Part No. | | Quantity |
|----------|----------------------|-------------|-------------|----------|
| | | N64D | N64F | |
| 1 | Cover, Injector | 8315006 | 8315013 | 1 |
| 2 | Nozzle, Injector | 8454011~016 | 8454011~016 | 1 |
| 3 | O-ring | 8378024 | 8378024 | 1 |
| 4 | Throat, Injector | 8467011~016 | 8467011~016 | 1 |
| 5 | O-ring | 8378021 | 8378021 | 1 |
| 6 | ValveBody(ABS+GF10) | 8022033 | 8022035 | 1 |
| | ValveBody(PPO+GF10) | 8022034 | 8022036 | |
| 7 | Seal Ring | 8370016 | 8370021 | 1 |
| 8 | Fixed Disk | 8469010 | 8469011 | 1 |
| 9 | Moving Disk | 8459011 | 8459012 | 1 |
| 10 | Seal Ring | 8370018 | 8370023 | 1 |
| 11 | Shaft | 8258005 | 8258012 | 1 |
| 12 | Anti-friction Washer | 8216006 | 8216006 | 1 |
| 13 | O-ring | 8378133 | 8378130 | 1/2 |
| 14 | O-ring | 8378110 | 8378110 | 2 |
| 15 | Fitting Nut | 8092005 | 8092006 | 1 |
| 16 | Cover | 8444010 | 8444011 | 1 |
| 17 | Iron Bead | 8271004 | 8271004 | 1 |
| 18 | Spring | 8282003 | 8282003 | 1 |
| 19 | Hand Wheel | 8253041 | 8253041 | 1 |
| 20 | Screw, Cross | 8909018 | 8909018 | 1 |
| 21 | Label | 8860001 | 8860001 | 1 |
| 22 | Screw, Cross | 8909008 | 8909008 | 2 |
| 23 | Tube | 8457025 | 8457025 | 1 |
| 24 | Hexagonal Nut | 8940016 | 8940016 | 1 |

MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

F64AC/F64BC Structure Chart



MODEL: F64A/F64B/F64C/N64D/N64F/F64AC/F64BC

F64AC/F64BC Component Name & Code

| Item No. | Description | Part No. | | Quantity |
|----------|----------------------|-------------|-------------|----------|
| | | F64AC | F64BC | |
| 1 | Screw, Cross | 8902017 | 8902017 | 2 |
| 2 | Cover, Injector | 8315001 | 8315001 | 1 |
| 3 | O-ring | 8378025 | 8378025 | 1 |
| 4 | Nozzle, Injector | 8454001~010 | 8454001~010 | 1 |
| 5 | Throat, Injector | 8467001~010 | 8467001~010 | 1 |
| 6 | Injector Body | 8008001 | 8008001 | 1 |
| 7 | Seal Ring | 8370003 | 8370003 | 1 |
| 8 | Plug | 8323002 | 8323002 | 1 |
| 9 | O-ring | 8378012 | 8378012 | 1 |
| 10 | O-ring | 8378016 | 8378016 | 2 |
| 11 | Inserts | 8947002 | 8947002 | 2 |
| 12 | Valve Body(ABS+GF10) | / | 5022016 | 1 |
| | Valve Body(PPO+GF20) | 5022017 | 5022015 | |
| 13 | Screw, Cross | 8909008 | 8909008 | 2 |
| 14 | Seal Ring | 8370002 | 8370025 | 1 |
| 15 | Fixed Disk | 8469001 | 8469012 | 1 |
| 16 | Moving Disk | 8459001 | 8459013 | 1 |
| 17 | Moving Seal Ring | / | 8370053 | 1 |
| 18 | Shaft | 8258007 | 8258009 | 1 |
| 19 | Anti-friction Washer | 8216003 | 8216010 | 1 |
| 20 | O-ring | 8378128 | 8378107 | 1 |
| 21 | O-ring | 8378113 | 8378078 | 1/2 |
| | | 8378115 | / | 1 |
| 22 | Fitting Nut | 8092003 | 8092007 | 1 |
| 23 | Cover | 8444007 | 8444008 | 1 |
| 24 | Iron Bead | 8271004 | 8271004 | 1 |
| 25 | Spring | 8282003 | 8282003 | 1 |
| 26 | Hand Wheel | 8253010 | 8253011 | 1 |
| 27 | Screw, Cross | 8909014 | 8909014 | 1 |
| 28 | Label | 8860001 | 8860001 | 1 |
| 29 | O-ring | 8378143 | 8378143 | 1 |
| 30 | O-ring | 8378078 | 8378078 | 1 |

4. Warranty Card

Dear client:

This warranty card is the guarantee proof of multi-functional flow control valve. It is kept by client self. You could get the after-sales services from the supplier which is appointed by. Please keep it properly. It could not 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 | Multi-functional Flow Control Valve for Water Treatment Systems | | |
| Model | | Code of Valve Body | |
| Purchase Company Name | | Tel/Cel. | |
| Problem | | | |
| Solution | | | |
| Date of Repairing | | Date of Accomplishment | Maintain Man |

When product need warranty service, please fill in the below content and sent 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 | |
| Tank Size ϕ × | | Resin Volume L | Raw Water Hardness mmol/L |
| Water Source: Ground-water <input type="checkbox"/> Tap Water <input type="checkbox"/> | | Water Treatment Capacity m ³ | Backwash Time Min. |
| Brine & Slow Rinse Time Min. | | Brine Refill Time Min. | Fast Rinse Time Min. |
| Problem Description | | | |

