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# Control Valves

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## MANUAL FILTER valves

### Structure Features

- Hermetic head faces structure.
- No hard water bypass and operating can happen on service.

- Manual regeneration. Handle could be rotated and assembled within 18°.

### Applications

- Household Filter System (F52, F56A, F56B, F56C, F56E, F56F).
- A/C filter or sand filter system for RO pretreatment system.
- Swimming Pool Filter System (N56D, F77BS).
- N56D, F77BS can be used for iron/manganese removal system if side mount adapter is installed upside down.



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51101A	F52	1/2" Female	1/2" Female	M82x3	∅16.5	1	6"~10"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51101B	F56B	1/2" or 3/4" Female	1/2" or 3/4" Female	Tr95x6 ∅98 hackle whorl	1.05" OD	1	Match with 10" housing	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51101C	F56C	1/2" or 3/4" Female	1/2" or 3/4" Female	Tr118x6 Tr110x6 ∅115 hackle whorl	1.05" OD	1	Match with 20" housing	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51102	F56E	1/2" or 3/4" Female	1/2" or 3/4" Female	2.5"-8NPSM	1.05" OD	2	6"~10"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51202C	F56EC	1/2" or 3/4" Female	1/2" or 3/4" Female	2.5"-8NPSM	1.05" OD	2	6"~10"	Side control



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51104	F56A	1" Female	1" Female	2.5"-8NPSM	1.05" OD	4	6"~12"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51204C	F56AC	1" Female	1" Female	2.5"-8NPSM	1.05" OD	4	6"~12"	Side control



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51106	F56F	1" Female	1" Female	2.5"-8NPSM	1" D-GB	6	6"...14"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51110	N56D	2" Female	2" Female	4"-8UN	1.5" D-GB 1.9" OD	10	10"...24"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51215	F77BS	2" Male	2" Male	4"-8UN	1.5" D-GB 1.9" OD	15	14"...30"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
51240	F112BS	2" Male	DN65	Side Mounted, DN80 Top and bottom strainer connector		40	24"...42"	

## MANUAL SOFTENER valves

### Structure Features

- Hermetic head faces structure.
- No hard water bypass and operating can happen on service.

### Applications

- Start regeneration by manual, and handle can be rotated 360° cycle.
- F64BC, F64AC could be side operated.
- Residential Softener System (F64A, F64AC, F64B, F64BC, F64C).
- Softener system for RO.
- Boiler softener system; ion exchange units.



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
61202	F64B	3/4" Female	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	2	6"...12"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
71202	F64C	3/4" Female	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	2	6"...12"	UF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
61104	F64A	1" Female	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4	6"...18"	DF

MANUAL SOFTENER valves



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
61204C	F64AC	1" Female	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4	6"...18"	Side control/DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
61206	F64F	1.5" Male	3/4" Male	1/2" Male	4"-8UN	1.25" D-GB	6	10"...24"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
61210	N64D	2" Male	1" Male	1/2" Male	4"-8UN	1.5" D-GB 1.9" OD	10	10"...30"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
61215	F77AS	2" Male	1.5" Male	3/4" Male	4"-8UN	1.5" D-GB 1.9" OD	15	24"...42"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
61240	F112AS	DN65	DN65	3/4" Male	Side Mounted, DN80 Top and bottom strainer connector		40	36"...63"	

AUTOMATIC FILTER valves (LED display)



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
53502	F71B1	3/4" Male	3/4" Male	2.5"-8NPSM	1.05" OD	2	6"...10"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
53502B	F71G1	3/4" Male	3/4" Male	2.5"-8NPSM	1.05" OD	2	6"...10"	

AUTOMATIC FILTER valves (LED display)



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53504	F67C1	1" Female	1" Female	2.5"-8NPSM	1.05" OD	4	6" ...12"	Meter type



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53604	F67C3	1" Female	1" Female	2.5"-8NPSM	1.05" OD	4	6" ...12"	Meter type



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53504B	F67G1	1" Female	1" Female	2.5"-8NPSM	1.05" OD	4	6" ...12"	New appearance



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53504S	F67B1	1" Female	1" Female	2.5"-8NPSM	1.05" OD	4	6" ...12"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53506S	F67B-A	1" Female	1" Female	2.5"-8NPSM	1" D-GB	6	6" ...14"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53510	N75A1	2" Male	2" Male	4"-8UN	1.5" D-GB 1.9" OD	10	10" ...24"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53610	N75A3	2" Male	2" Male	4"-8UN	1.5" D-GB 1.9" OD	10	10" ...24"	Meter type



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53510B	N75B1	2" Male	2" Male	4"-8UN	1.5" D-GB 1.9" OD	10	10" ...24"	

AUTOMATIC FILTER valves (LED display)



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53515	F99B1	2" Male	2" Male	4"-8UN	1.5" D-GB 1.9" OD	15	14"...30"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53518	N77B1	2" Male	2" Male	4"-8UN	1.5" D-GB 1.9" OD	18	16"...36"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53520	F95B1	2" Male	2" Male	4"-8UN	1.5" D-GB 1.9" OD	20	28"...40"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53620	F95B3	2" Male	2" Male	4"-8UN	1.5" D-GB 1.9" OD	20	28"...40"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53520T	F111B1	2" Male	2" Male	4"-8UN	2" D-GB	20	28"...40"	Top mounted



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53620T	F111B3	2" Male	2" Male	4"-8UN	2" D-GB	20	28"...40"	Top mounted



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53540	F112B1	DN65	DN65	Side Mounted, DN80 Top and bottom strainer connector		40	36"...40"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53640	F112B3	DN65	DN65	Side Mounted, DN80 Top and bottom strainer connector		40	36"...40"	

AUTOMATIC FILTER valves (LED display)



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53550	F96B1	DN80	DN80	Side Mounted, DN80 Top and bottom strainer connector		50	36"~48"	



New Model	Old Model	Inlet/Outlet	Drain	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
53650	F96B3	DN80	DN80	Side Mounted, DN80 Top and bottom strainer connector		50	36"~48"	

AUTOMATIC SOFTENER valves (LED display)

Structure Features

- Indication of long time power cut, data saved after power off (saved for three days).
- No hard water bypass in rising cycle.
- Signal output connector, remote handleng connector could receive passive signal.
- Interlock function for contemporary system and individual regeneration.
- F77, F95, F111 adopt ball valve for brine drawing and refill.
- Time clock regeneration option: by days or by hours.

- Meter valve regeneration option: Meter delayed (A-01), Meter immediate (A-02), Intelligent meter delayed (A-03), Intelligent meter immediate (A-04).
- Time available: 0-99 minutes per cycle.
- Meter range: F63, F65, F68, F69 (0-99.99m3), F74 (0-999.9m3).
- Up-flow valve interval backwash times setting F-00, service several times, but backwash one time.
- Meter type valve max interval regeneration days setting (0-40days).

- F77, F95, F111 have two valve cores, one is for controlling water in and brine drawing, the other is for out.
- The model with a "S" means the valve with manual operation.
- F77, F95, F111 brine refilled while service, brine refilling controlled by electronic ball valves.
- F63, F65, F68 and F69 have a variety of apperances optional.
- Controller for F74 can be top or side mounted.
- The products have time clock type, such as 63504 (F63C1).

Applications

- Residential Softener Systems (F63, F65, F68, F69).
- Softener for RO pretreatment System.
- Boiler Softening System, Ion-exchange system.



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63602	F65B3	3/4" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	2	6"~12"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
73602	F69A3	3/4" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	2	6"~12"	UF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63602E	F117A3	3/4" Male	3/4" Male	3/8" Male	2.5"-8NPSM	1.05" OD	2		DF

AUTOMATIC SOFTENER valves (LED display)



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
63604S	F63B3	1" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4	6"...18"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
63604	F63C3	1" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4	6"...18"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
73604S	F68A3	1" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4	6"...18"	UF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
73604	F68C3	1" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4	6"...18"	UF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
63604E	F116A3	1" Male	3/4" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4		DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
73605	F92A3	1" Male	NPT3/4"	1/2" Male	2.5"-8NPSM	1" D-GB	6	6"...24"	UF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
63610	N74A3	2" Male	1" Male	3/4" Male	4"-8UN	1.5" D-GB 1.9" OD	10	10"...30"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m <sup>3</sup> /h)	Tank Diameter Range	Remark
63615	F99A3	2" Male	1.5" Male	3/4" Male	4"-8UN	1.5" D-GB 1.9" OD	15	14"...36"	DF



AUTOMATIC SOFTENER valves (LED display)



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63618	N77A3	2" Male	1.5" Male	3/4" Male	4"-8UN	1.5" D-GB 1.9" OD	18	14"...42"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63620	F95A3	2" Male	1.5" Male	3/4" Male	2" Male Top and bottom strainer		20	24"...48"	Side mounted



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
73620	F95D3	2" Male	1.5" Male	3/4" Male	2" Male Top and bottom strainer		20	24"...36"	UF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63620T	F111A3	2" Male	1.5" Male	3/4" Male	4"-8UN	1.5" D-GB 1.9" OD	20	24"...48"	Top mounted



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63640	F112A3	DN65	DN65	3/4" Male	DN80 Tap and bottom strainer		40	24"...60"	Improved



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63650	F96A3	DN80	DN80	3/4" Male	DN100 Tap and bottom strainer		50	48"...63"	DF

## DUPLEX TANKS valves

### Structure Features

- Ceramic valve core, hermetic head faces structure.
- One valve on twin tanks, one is on service and the other is standby
- Regeneration tank standby after exchange, fast rinse before service.

- Regeneration start type: Meter type only.
- Two valve cores, one is for tanks switching, the other is for regeneration.

- It is side-mounted and uses soft water for regeneration, except F73.

### Applications

- Continuous Soft Water Supplying.



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
17603	F73	1" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	3.5	6"...14"	DF/UF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
17606	F98A	1" Male	3/4" Male	1/2" Male	1" Male Tap and bottom strainer		6	20"...24"	Side mounted



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
17610	F88A	1.5" Male	1" Male	1/2" Male	1.5" Male Tap and bottom strainer		10	20"...30"	UF

## THREE tanks valves

### Structure Features

- One valve controls three tanks, two tanks supply with softened water in series, the other tank standby to achieve water supply continuously.
- When service finishes, the first grade in series turns to regenerate, the second grade turns to the first grade and supplies with softened water together with the standby tank as the second grade in series, which greatly im-

proves the resin efficiency, saves water and salt.

- Regeneration tank keeps standby after switch and starts fast rinse before service.
- Only need one brine tank.
- It adopts hermetic head faces structure with ceramic sealing, reliable and duration.
- Up-flow or down-flow regeneration is optional by program.
- Raw water or softened water

for regeneration is optional by changing the moving dis

- Remove one tank to make the system as one in service one standby system.
- There is always having two tanks in service in series which could treat the raw water with high hardness. It has backwash function, which could be used in high turbidity application which floating bed system can't be used.

### Applications

- Continuous Soft Water Supplying.



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
18604A	F118A	G1"	NPT3/4"	G3/8"	3x2.5"-8NPSM	3x1.05" OD	4	10"...18"	Raw water



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
18604B	F118B	G1"	NPT3/4"	G3/8"	3x2.5"-8NPSM	3x1.05" OD	4	10"...18"	Soft water

## AUTOMATIC FILTER valves (P series)

### Structure Features

• More stable performance. F63P, F67P and F68P adopt the same locating board, while F65P, F69P and F71P use the same locating board. They all use the same main control board.

• Hermetic head faces structure, no hard water bypass when regeneration cycle.  
 • When electrical service reover, program run one cycle then locate at the previous position.

• Cheaper and simpler.  
 • Indicator display.

### Applications

• Residential Softener of Filter system.  
 • Boiler Softener, Ion-Echange Equipment.



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63502P	F71P1	3/4" Male	3/4" Male	/	2.5"-8NPSM	1.05" OD	2	6"...10"	Filter



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63504P	F67P1	1" Female	1" Female	/	2.5"-8NPSM	1.05" OD	4	6"...12"	Filter



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63602P	F65P3	3/4" Female	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	2	6"...12"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
63604P	F63P3	1" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4	6"...18"	DF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
73602P	F69P3	3/4" Female	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	2	6"...12"	UF



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
73604P	F68P3	1" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4	6"...18"	UF

## FLOATING BED valves

### Structure Features

- Hermetic head faces structure (F112 has piston structure).
- One valve on twin tanks, one in service, the other standby (F88 and F98).

- F83, F77CS and F112CS are hard water for regeneration, others are soft water for regeneration.

- Adopt the technological process of up-flow service --brine draw--brine refill--fast rinse.

### Applications

- Suitable for high hardness (less than 15 mmol/L) water treatment applications.



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
93604	F83A3	1" Male	1/2" Male	3/8" Male	2.5"-8NPSM	1.05" OD	4	6"...14"	Regeneration with hard water



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
93606	F98C	1" Male	3/4" Male	1/2" Male	1" Male Tap and bottom strainer		6	14"...18"	One valve on duplex tanks



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
93610	F88C	1.5" Male	1" Male	1/2" Male	1.5" Male Tap and bottom straine		10	18"...20"	One valve on duplex tanks



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
91215	F77CS	2" Male	1.5" Male	3/4" Male	4"-8UN	1.5" D-GB 1.9" OD	15	20"...30"	Regeneration with hard water



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
93620	F95C3	2" Male	1.5" Male	3/4" Male	2" Male Tap and bottom strainer		20	24"...36"	Regeneration with soft water



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
91240	F112CS	DN65	DN65	3/4" Male	DN80 Tap and bottom strainer		40	36"...48"	Regeneration with hard water



New Model	Old Model	Inlet/Outlet	Drain	Brine Line Connector	Base	Riser Pipe	W.T.C. (m³/h)	Tank Diameter Range	Remark
93640	F112C3	DN65	DN65	3/4" Male	DN80 Tap and bottom strainer		40	36"...48"	Regeneration with soft water

## BYPASS valves

### Structure Features

- 4 positions: Partly bypass, Bypass, Close, Service.
- Figure represents bypass volum

### Applications

- If install flow meter inside it and connect with control valve, then it can revert it to a meter type valve.
- Raw water bypassing is required when the softener is on maintenance.
- Raw water bypassing is required when softener is on regeneration.
- It can mix raw water to system to supply not very soft water.



New Model	Old Model	Inlet/Outlet	Valve Size	Inlet Outlet Distance	Remark	Riser Pipe
41104	F70A	1" Male	1" Female	50 mm	Match with F63/F68	1.05" OD



New Model	Old Model	Inlet/Outlet	Valve Size	Inlet Outlet Distance	Remark	Riser Pipe
41102	F70B	3/4" Male	3/4" Male	65/70 mm	Match with F65/F69	1.05" OD



New Model	Old Model	Inlet/Outlet	Valve Size	Inlet Outlet Distance	Remark	Riser Pipe
41204	F70C	1" Male	1" Female	50 mm	Match with F63/F68/F82	1.05" OD



New Model	Old Model	Inlet/Outlet	Valve Size	Inlet Outlet Distance	Remark	Riser Pipe
41202	F70D	3/4" Male	3/4" Male	50 mm	Match with F79	1.05" OD



New Model	Old Model	Inlet/Outlet	Valve Size	Inlet Outlet Distance	Remark	Riser Pipe
41206	F70F	1" Male	NPT1" or 1" Male	50 mm	Match with F92/F82	1.05" OD



New Model	Old Model	Inlet/Outlet	Valve Size	Inlet Outlet Distance	Remark	Riser Pipe
41304	F70G	NPT3/4" Male or 1" Male NPT1" or Male	3/4" Male or 1" Male or NPT1" Male	50 mm	Match with F63/F68/F79/F82/F105	1.05" OD

## F107 iron and manganese removal device

### Structure Features

- Impeller stirring plus dropping create aeration process.
- Automatic air release valve constantly drain off the air and carbon dioxide in water.

### Range of Application

- Remove the iron or manganese from the water which has a big containing, as a pre-treatment device before industrial softening system or demineralization system.

- Outlet Water Quality: Iron Containing  $\leq 0.3$  mg/L
- Manganese Containing:  $\leq 0.1$  mg/L

- Outlet Water Turbidity:  $< 5$  mg/L
- Inlet Water Quality: Iron Containing  $\leq 3$  mg/L



Model	Inlet Water Turbidity	Alkalinity	pH Value	Water Temperature	Water Capacity	Riser Pipe
F107	$< 15$ mg/L	$\leq 2$ mg/L	6.8...9	6...10°C	2 m <sup>3</sup> /h	1.05" OD
F107C	$< 15$ mg/L	$\leq 2$ mg/L	6.8...9	6...10°C	10 m <sup>3</sup> /h	1.05" OD

