

Ball Valve Controller for Filter& Softener and

Mixed Bed Water Treatment Systems

46030(Old Model No.: F109) 46040(Old Model No.: F109B)

User Manual



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



Catalogue

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1. Product Overview

1.1. Main Application & Applicability

Ball valve controller is matched with our two wires electronic ball valve to be filter & softener or mixed bed demineralized water treatment systems.

1.2. Product Characteristics

- Can be used with our electronic ball valve(DN20~DN100).
- Long outage indicator

If outage overrides 3 days, the time of day indicator "12:12" will flash to remind people to reset new time of day. The other set parameters do not need to reset. The process will continue to work after power on.

Buttons lock

No operations to buttons on the controller within 1 minute, button lock indicator light on which represent buttons are locked. Before operation press and hold the "●" and "●" buttons for 5 seconds to unlock. This function can avoid incorrect operation.

LCD dynamic screen display

LCD display for clarity.

1.3. Product Structure and Technical Parameters

A. Product Structure (The appearance is just for reference. It is subjected to the real product.)



B. Technical Parameters

Model	Transformer Input	Transformer Output	Environment Temperature(℃)	Application
46030(F109)	AC100~240V 50~60Hz	DC36V, 2.0A	5-50℃	Filter& Softener
46040(F109B)		DC24V, 1.5A		Mixed Bed

1.4. Flow Chart and Electronic Ball Valve Open and Close Graph

A. 46030(F109) Filter



Working		053	053			
Position	QFI	QF2	QF3	QF4	QF5	
Service	Open		Open			
Backwash		Open		Open		
Fast Rinse	Open				Open	

B. 46030(F109) Softener



Working Position	QF1	QF2	QF3	QF4	QF5	QF6	QF7
Service	Open		Open				
Backwash		Open		Open			
Brine Draw					Open	Open	Open
Slow Rinse					Open	Open	
Fast Rinse	Open				Open		
Brine Refill	Open		Open				Open

Down-flow Regeneration



Working Position	QF1	QF2	QF3	QF4	QF5	QF6	QF7
Service	Open		Open				
Backwash		Open		Open			
Brine Draw				Open		Open	Open
Slow Rinse				Open		Open	
Fast Rinse	Open				Open		
Brine Refill	Open		Open				Open

C. 46040(F109B) Mixed Bed



Compressed Air

Working	051	QF	QF	QF	QF	QF	057	059	050	0510	0511	0512	0512	Pump
Position	QFI	2	3	4	5	6		QFO	QF9	QFIU	QFII	QFIZ	QFIS	
Sonvico			Ор	Ор										Open
Service	Open		en	en										
Packwach		Ор					Onon							Open
Backwash		en					Open							
O a titlia a						Ope	0							
Settling						n	Open							
Alkaline						0.00			Open	Open		Open		Open
Pre-						Ope								
drawing						n								
Acid-Alkali						0.2.4			Open	Open	Open	Open		Open
ne						Ope								
Drawing						- 11								

Acid-Alkali						Ope			Open	Open		Open		
ne Rinse						n								
Drainage						Ope	Open							
Drainage						n	Opon							
Mixing					Ор		Open	Open						
					en		Open							
Rapid				Ор	Ор		Open				Open			
Drain				en	en		Open							
	Onon	Open	Open		Ор		Ор		Onon					Open
Air Drain Oper	Open		en		en		Open							
Fast	Onon		Ор		Ор							Open		
Rinse		en		en										

Second Grade Demineralized Water Regeneration Mixed Bed



Compressed Air

Worki														Pump	Pum
ng	QF	QF	0.50	QF	QF	QF	QF	QF	QF	0540	0544	0540	0540	1	p 2
Positio	1	2	QF3	4	5	6	7	8	9	QF10	QF11	QF12	QF13		
n															
Servic	Ор		Ope	Ор										Open	
е	en		n	en											
Backw		Ор					Ор							Open	
ash		en					en								
Settlin						Ор	Ор								
g						en	en								
Alkalin									Ор	Open		Open			Ope
е						Ор			en						n
Pre-dr						en									
awing															
Acid-A									Ор	Open	Open	Open			Ope
Ikaline						Ор			en						n
Drawi						en									
ng															
Acid-A						0.7				Open		Open			Ope
Ikaline						Op									n
Rinse						en									
Draina						Ор	Ор								
ge						en	en								
Mixing					Ор		Ор	Ор							
wiixing					en		en	en							
Rapid				Ор	Ор		Ор						Open		
Drain				en	en		en								
Air	Ор		Ope		Ор		Ор								Ope
Drain	en		n		en		en								n
Fast	Ор		Ope		Ор										Ope
Rinse	en		n		en										n



One in Service One Standby First Grade Demineralized Water Regeneration Mixed Bed

When the mixed bed A is in service status, mixed bed B is in regeneration until fast rinse finished. Close QF5b, it is in standby status. When mixed bed A outlet water is unqualified, mixed bed B is in fast rinse until the drain water qualified then into service, mixed bed A starts

to regenerate until fast rinse finished, close QF5a, it is in standby status. So the system continuous water supplying.





The regeneration pump is opened only at Alkaline Pre-drawing, Acid-Alkaline Drawing and Acid-Alkaline Rinse three positions.

1.5. Installation

A. The valve pipeline installation

Please refer to above correspondence flow chart to install the pipeline and the valve. The above flow chart makes the instruction of electronic ball valve and limit outlet water, for the other pipeline and flow meter design according to the necessary.

B. Controller fixing

Please install and fix the controller by mounting hole $2x\Phi9$ according to the below figure, prevent to hide 6 pieces holes of 6x10.5 on back, keeps a space for screwdriver disassembly the control box and wiring.



The controller for mixed bed system

C. Wiring

The function and wiring of 46030(F109) filter &softener control board.



The function and wiring of 46040(F109B) mix bed system control board.



- 2. Basic Setting & Usage
- 2.1. The Function of PC Board



- Α. 🗭
- Light on, indicate the buttons are locked. At this moment, no single button will work (Operation in one minute, in will light on and lock the buttons.)
- Solution: Press and hold both and for 5 seconds until the light off.

В. 🕘

- Press
 , enter program display mode and view all values.
- In program display mode, press⁽¹⁾, enter program set mode, and adjust values.
- Press after all program are set, and then the voice "Di" means all setting are success and return program display mode.

C. 🕒

- Press in any status, it can proceed to next step.(Example: If outlet water is unqualified, lift up the buttons, then press to start regeneration.)
- Press in program display mode, and it will return to Service; Press
 in program set mode, and it will return program display mode.

- Press while adjusting the value, then it will return program display mode directly without saving value.
- D. ∇ and \blacktriangle
- In program display mode, press or to view all values.
- In program set mode, press Oor to adjust values.
- Press and hold both and for 5 seconds to lift the Button Lock status.
- 2.2. 46030(F109) Filter & Softener Controller Setting and Usage
- A. The background setting

When power on, display as Figure 1, within 6 seconds press and hold of and of for more than 2 seconds to enter the background setting menu, display as Figure 2.



Figure4

a)In Figure 2 interface, press enter "Set Mode" as Figure 3 shows,
press or o to select the mode that you need (if set mode is softener valve, Figure 1 displays softener valve, if set mode is filter valve,

Figure 1 displays filter valve), press
to save the setting and turn back to Figure 2.

b)In Figure 2 interface, press ● or ● to select "Set Type", and press ●, enter "Set Type" as the Figure 4 shows, press ● or ● to select the type that you need, press ● to save the setting and turn back to Figure 2.

B. Factory default parameters:

Set Items	Parameter Set Range	Factory Default	Remark
Time of Day	00~23:59	Current Value	
Regeneration Type	A-01/02	A-01	A-01Meter type A-02Time clock type
Regeneration Time	00~23:59	02: 00	Only for meter type A-01
Water Treatment Capacity	$0{\sim}9999.99~\mathrm{m}^3$	500.00	Only for meter type
Service Days	0~99 Days	3	Only for time clock type
Rinsing Frequence	F-00~20	F-00	Only for filter valve
Backwash Time	0~99 min.	10	
Brine Draw Time	0~99 min.	60	Only for softener valve

Slow Rinse Time	0~99 min.	30	Only for softener valve
Brine Refill Time	0~99:59 min.:sec.	5	Only for softener valve
Fast Rinse Time	0~99 min.	10	
Maximum Interval Regeneration Days	0~40 Days	30	Only for meter type
Signal Output Mode	b-01/02	b-01	

C. Process display(Take softener valve meter type A-01 as an example)



Figure 8

Figure 9

Figure 10



Figure 11

Figure12

Figure13

Illustration:

- •Under service status, it shows Figure 5 and Figure 6;
- Under backwash status, it shows Figure 7;
- Under brine draw status, it shows Figure 8;
- Under slow rinse status, it shows Figure 9;
- Under fast rinse status, it shows Figure 10;
- Under brine refill status, it shows Figure 11;
- •When the motor is running, it shows Figure 12;
- •When the system is faulted, it shows Figure 13, The "X" in the "EX" refers to $1{\sim}4$.

D. Operation parameters setting process (Take softener valve meter type A-01 as an example)

Items	Process Steps	Symbol
Before paramet to unlock.	ers setting, if 💼 light on, press and hold both	●and● for 5 second

	1.Press ⁽²⁾ and enter into menu, as the Figure 14 shows. The item of the "Set Time of Day".	》Set Time of Day Set Brine D. Type
Time of Day	2. Then press (2), and the setting interface will display as the Figure 15, the hour value "12" flash, press (2) or (2) to adjust the hour value.	Set Regen. Type ↓ Figure14
	 3.Then press again, the minute value "30" flash, press or to adjust the minute value. 4.Press and hear a sound "Di", then finish adjustment 	Set Time of Day 10:30 Figure 15
Brine Draw Type	 1.In Figure 14, press and select the item of "Set Brine D. Type"; Then press and select the press and the setting interface will show as the Figure 16. 2.Press or select the brine draw type. 3.Press and hear a sound "Di", then finish adjustment. 	Set Brine D. Type ⊕ Down-flow ○Up-flow Figure 16
Regeneration Type	 1.In Figure 14, press and select the item of "Set Regen. Type"; Then press and the setting interface will show as Figure 17. 2.Press or select the regeneration type. 3.Press and hear a sound "Di", then finish adjustment. 	Set Regen. Type ⊕ A-01 ○A-02 Figure17

Regeneration Time	 1.In Figure 14, press and select the item of "Set Regen. Time"; Then press and select the item of "Set Regen. Time"; Then press and the setting interface will show as Figure 18, the hour value "02" flash, press or and the or value. 2.Then press and the number of the minute value and the or value. 3. Press and hear a sound "Di", then finish adjustment. 	Set Regen. Time 02 :00 Figure 18	
Water Treatment Capacity	 1.In Figure 14, press and select the item of "Set Water Capacity"; Then press , the setting interface will show as Figure 19, the value "500" flash, press or to adjust the value. Then press and the value "00" flash, press or to adjust the value. Press or to adjust the value. Press and hear a sound "Di", then finish adjustment. 	Set Water Capacity 500.00m ³ Figure 19	
Backwash Time	 1.In Figure 14, press and select the item of "Set Backwash Time"; Then press , the setting interface will show as Figure 20. Press or to set the backwash time. Press and hear a sound "Di", then finish adjustment. 	Set Backwash Time 10 min. Figure 20	

Brine Draw Time	 1.In Figure14, press and select the item of "Set Brine D. Time "; Then press and select the item of "Set Brine D. Time "; Then press and the setting interface will show as Figure 21. 2.Press or to set the brine draw time. 3. Press and hear a sound "Di", then finish adjustment. 	Set Brine D. Time 60 min. Figure 21
Slow Rinse Time	 1.In Figure 14, press and select the item of "Set Slow Rinse Time"; Then press and select the item of "Set Slow Rinse Time"; Then press and the setting interface will show as Figure 22. 2. Press or the slow rinse time. 3.Press and hear a sound "Di", then finish adjustment. 	Set Slow Rinse Time 30 min. Figure 22
Fast Rinse Time	 1.In Figure 14, press and select the item of "Set Fast R. Time"; Then press and the setting interface will show as Figure 23. 2. Press or to set the fast rinse time. 3. Press and hear a sound "Di", then finish adjustment. 	Set Fast R. Time 10 min. Figure 23

Brine Refill Time	 1.In Figure14, press and select the item of "Set Brine R. Time"; Then press , the setting interface will show as Figure 24. 2.Press or to set the brine refill time. 3.Press and hear a sound "Di", then finish adjustment. 	Set Brine R. Time 05:00 min.:sec. Figure 24
Interval Regeneration Days	 In Figure14, press and select the item of "Interval Regen. D."; Then press and select the item of "Interval Regen. D."; Then press and the setting interface will show as Figure 25. Press or or to set the Interval regeneration days. Press and hear a sound "Di", then finish adjustment. 	Interval Regen. D. 30 days Figure 25
Signal Output Mode	 In Figure14, press and select the item of "Set Signal Output"; Then press and select the item of "Set Signal Output"; Then press and select the signal output 26. Press or or to set the signal output mode. Press and hear a sound "Di", then finish adjustment. 	Set Signal Output <mark>⊕ b-01</mark> Figure 26

E. F and K value setting method.

When power on, within 6 seconds press and hold (and for more than 2 seconds to enter the K setting status.

The K integer value flash, press • or • each one time, decrease or increase by 1. Long press • or • to quickly decrease or increase the value. Press •, the K decimals value flash, then press • or • each one time, decrease or increase by 1. Long press • or • to quickly decrease or increase the value. Press • to save the setting values and return to work status.

2.3.46040(F109B) Mixed Bed Controller Setting and Usage

A. The background setting

F109B	

Set Control Program
$\oplus 1^{st}$ Demineralized
Water for Regen.
02 nd Demineralized
Water for Regen.

Figure 27

Figure 28

B. Factory default parameters

Set Items	Parameter Set Range	Factory Default	Remark
Time of Day	00:00~23:59	Current Value	
Service Days	0 \sim 99 Days	60	

Regeneration Time	00:00~23:59	02:00	
Backwash Time	01:00~99:59 min.:sec.	05:00	
Settling Time	00:00~99:59 min.:sec.	03:00	
Alkaline Pre-drawing Time	00:00~99:59 min.:sec.	35:00	
Acid-Alkaline Drawing Time	00:00~99:59 min.:sec.	65:00	
Acid-Alkaline Rinse Time	00:00~99:59 min.:sec.	35:00	
Drainage Time	00:00~99:59 min.:sec.	00:07	
Mixing Time	00:00~99: 59 min.:sec.	00:40	
Rapid Drain Time	00:00~99:59 min.:sec.	00:10	
Air Drain Time	00:00~99:59 min.:sec.	05:00	
Fast Rinse Time	01:00~99:59 min.:sec.	10:00	

C. Process display(Take single tank mixed bed as an example)

12:30:45				_		
Water System	1	2:54:32		12:59:32		
In-Service	V	Vater System		v	Vater System	
Remaining:60 days	E	Backwashing		s	Settling	
Regen, Time: 02:00	F	Remaining:	05:00	F	Remaining:	03:00
	r	min.:sec. min.:sec.				
Figure 29		Figure 30			Figure 31	
13:02:32		13:37:32			14:42:32	
Water System		Water System			Water System	
Alkaline Pre-drawing		Acid-Alkaline [Drawing		Acid-Alkaline Ri	nsing
Remaining: 35:0	0	Remaining:	65:00		Remaining:	30:00
min.:sec.		min.:sec.			min.:sec.	
Figure 32		Figure 33 Figure 34		4		
				ור		
15:12:32		15:12:52			15:12:58	
Water System		Water System			Water System	
Draining		Mixing			Rapid Draining	
Remaining: 00:0	7	Remaining:	00:040		Remaining:	00:10
min.:sec.		min.:sec.			min.:sec.	
Figure 35		gure 36		Fi	gure 37	
15-18-32		15:23:32			Motor Runnin	a
13.10.32		Water System			00	
vvater System						
Air Draining						
Remaining: 05:0	0	Remaining:	10:0	0		
min.:sec.		11111580.				
		1				

Figure	38
iguic	00

Figure 39

Figure 40

Illustration:

- Under service status, it shows Figure 29;
- Under backwash status, it shows Figure 30;
- Under settling status, it shows Figure 31;
- Under alkaline pre-drawing status, it shows Figure 32;
- Under acid-alkaline drawing status, it shows Figure 33;
- Under acid-alkaline rinse, it shows Figure 34;
- Under drainage status, it shows Figure 35;
- Under mixing status, it shows Figure 36;
- Under rapid drain status ,it shows Figure 37;
- Under air drain status ,it shows Figure 38;
- Under fast rinse status, it shows Figure 39;
- Under motor running status ,it shows Figure 40.

D. Operation parameters setting process

Items	Process Steps	Symbol		
Before parameters setting, if ight on, press and hold both and for 5 second to unlock.				
Time of Day	 Press ⁽²⁾ and enter into menu, as the Figure 41 shows. The item for the "Set Time of Day". Then press ⁽²⁾, and the setting interface will display as the Figure 42, the hour value "12" flash, press ⁽²⁾ or ⁽²⁾ to adjust the hour value. Then press ⁽²⁾ again, the minute value "30" flash, press ⁽²⁾ or ⁽²⁾ to adjust the minute value. 	 » Set Time of Day Set Service Days Set Regen. Time↓ Figure 41 Set Time of Day 10 :30 		

	4.Press (2) and hear a sound "Di", then finish adjustment.	Figure 42
Service Days	 In Figure 41, press and select the item of "Set Service Days"; Then press and select the item of "Set Service Days"; Then press and the service 43. Press or the service days. Press and hear a sound "Di", then finish adjustment. 	Set Service Days 60 days Figure 43
Regeneration Time	 1.In Figure 41, press and select the item of "Set Regen. Time"; Then press and the setting interface will show as Figure 44, the hour value "02" flash, press or to adjust the hour value. 2.Then press and the minute value "00" flash, press or to adjust the minute value. 3.Press and hear a sound "Di", then finish adjustment. 	Set Regen. Time 02 :00 Figure 44
Backwash Time	 In Figure 41, press and select the item of "Set Backwash Time"; Then press and the setting interface will show as Figure 45, the minute value "05" flash, press or to adjust the minute value. Then press and the second value "00" flash, press or to adjust the second value. Press and hear a sound "Di", then finish adjustment. 	Set Backwash Time 05:00 min.:sec. Figure 45

	1. In Figure 41, press 🔽 and select the item	
	of "Set Settling Time"; Then press , the setting interface will show as Figure 46, the	Set Settling Time
	minute value "03" flash, press 🔽 or 🛆 to adjust the minute value.	03:00 min.:sec.
Settling Time	2.Then press ⁽²⁾ , the second value "00"	
	flash, press V or A to adjust the second value.	Figure 46
	3.Press 🗐 and hear a sound "Di", then finish adjustment.	
	1. In Figure 41, press 2 and select the item	
	setting interface will show as Figure 47, the	Set Alkaline Draw
Alkaline	minute value "35" flash, press 🔽 or 🛆 to	Т.
Pre-drawing	2 Then press ⁽¹⁾ the second value "00"	35:00 min.:sec.
Time	flash, press or or to adjust the second value.	Figure 47
	3.Press <a> and hear a sound "Di", then finish adjustment.	
	1. In Figure 41, press 🔽 and select the item	
Acid-Alkaline Drawing Time	of "Set Ac. Al. Draw T."; Then press (2), the setting interface will show as Figure 48, the	Set Ac. Al. Draw T.
	minute value "65" flash, press Ѵ or < to adjust the minute value.	65:00 min.:sec.
	2.Then press ⁽²⁾ , the second value "00" flash, press ? or ? to adjust the second value.	Figure 48
	3.Press 😐 and hear a sound "Di", then	

	finish adjustment.	
Acid-Alkaline Rinse Time	 In Figure 41, press and select the item of "Set Ac. Al. Rinse T."; Then press and select the item setting interface will show as Figure 49, the minute value "30" flash, press or to adjust the minute value. Then press and the second value "00" 	Set Ac. Al. Rinse T. 30:00 min.:sec.
	 flash, press or or to adjust the second value. 3.Press and hear a sound "Di", then finish adjustment. 	Figure 49
	1. In Figure 41, press 2 and select the item	
Drainage	setting interface will show as Figure 50, the minute value "00" flash, press 🔮 or 🍊 to adjust the minute value.	Set Drainage Time 00:07 min.:sec.
Time	2. Then press , the second value "07" flash, press or to adjust the second value.	Figure 50
	3.Press <a>Press and hear a sound "Di", then finish adjustment.	
	1.In Figure 41, press 🔽 and select the item of "Set Mixing Time": Then press 😐, the	
Mixing Time	setting interface will show as Figure 51, the minute value "00" flash, press 👽 or 🔺 to adjust the minute value.	Set Mixing Time 00:40 min.:sec.
	2.Then press ⁽²⁾ , the second value "40" flash, press (or (to adjust the second value.	Figure 51

	3.Press 의 and hear a sound "Di", then finish adjustment.	
Rapid Drain Time	 1.In Figure 41, press and select the item of "Set Rapid Drain Time"; Then press and the setting interface will show as Figure 52, the minute value "00" flash, press or an adjust the minute value. 2.Then press and the second value "10" flash press or adjust the second value "10" flash prese or adjust the second	Set Rapid Drain Time 00:10 min.:sec.
	 value. 3.Press ^(a) and hear a sound "Di", then finish adjustment. 	Figure 52
Air Drain Time	1. In Figure 41, press and select the item of "Set Air Drain Time"; Then press (2), the setting interface will show as Figure 53, the minute value "05" flash, press (2) or (4) to adjust the minute value.	Set Air Drain Time 05:00 min.:sec.
	 2.Then press , the second value "00" flash, press or to adjust the second value. 3.Press and hear a sound "Di", then finish adjustment. 	Figure 53
Fast Rinse Time	1.In Figure 41, press v and select the item of "Set Fast Rinse Time";Then press v, the setting interface will show as Figure 54, the minute value "10" flash, press v or v to adjust the minute value.	Set Fast Rinse Time 10:00 min.:sec.
	2.Then press ⁽¹⁾ , the second value "00" flash, press ? or ^ to adjust the second	Figure 54

value.	
3.Press ⁽¹⁾ and hear a sound "Di", then finish adjustment.	

3. System Configuration

3.1.Controller Configuration Table

F109					
Part No.	Description	Qua ntity	Part No.	Description	Quant ity
8005065	Dust Cover	1	8005065	Dust Cover	1
8300049	Front Cover	1	8300049	Front Cover	1
6381006	Display Board	1	6381006	Display Board	1
6382101	Control Board	1	6382102	Control Board	1
5512002	Wire for Display Board	1	5512002	Wire for Display Board	1
8865084	Label	1	8865084	Label	1
5457048	Cable Joint	11	5457048	Cable Joint	18
8902029	Screw, Cross	6	8902029	Screw, Cross	6
6379031	Transformer	1	6379016	Transformer	1
5323001	End Cap	7			

3.2. Filter System Configuration Table

RXF-65 0.1MPa Pressure Drop			RXF-80 0.1MPa Pressure Drop		
Flow Rate 80m ³ /h	ì		Flow Rate 150m ³ /h		
Configuration	Model	Quantity	Configuratio n	Model	Quantity
Ball Valve Controller	F109	1	Ball Valve Controller	F109	1
DN65 Ball Valve	Q93154-65	5	DN80 Ball Valve	Q93154- 80	5
Main Pipeline	Suggest to use size bigger than DN80		MainSuggest to use sPipelinebigger than DN1		to use size an DN100

3.3. Softener System Configuration Table

RXS-65 0.1MP Flow Rate 80m ³ /	'a Pressure D ′h	rop	RXS-80 0.1MP Rate 150m ³ /h	a Pressure D	rop Flow
Configuration	Model	Quantity	Configuration	Model	Quantit y
Ball Valve Controller	F109	1	Ball Valve Controller	F109	1
DN65 Ball Valve	Q93154-65	5	DN80 Ball Valve	Q93154-80	5
DN32 Ball	Q93102-32	2	DN40 Ball	Q93102-40	2

Valve		Valve	
Main Pipeline	Suggest to use size bigger than DN80	Main Pipeline	Suggest to use size bigger than DN100

3.4. Mixed Bed System Configuration Table

RXH-10 0.1MPa Pressure Drop			RXH-20 0.1MPa Pressure Drop			
Flow Rate 10m ³	/h		Flow Rate 20m ³ /h			
Configuration	Model	Quantity	Configuration	Model	Quantity	
Ball Valve Controller	F109B	1	Ball Valve Controller	F109B	1	
DN25 Ball Valve	QQ93102-25	5	DN32 Ball Valve	Q93102-32	5	
DN20 Ball Valve	QQ93102-20	8	DN25 Ball Valve	QQ93102-25	8	
Resistivity Meter	2976073	1	Resistivity Meter	2976073	1	
Injector		2	Injector		2	
Main Pipeline	Main Pipeline Suggest to use size bigger than DN32		MainSuggest to use siPipelinebigger than DN40		e size N40	

RXH-30 0.1MPa Pressure Drop Flow Rate 30m ³ /h		RXH-45 0.1MPa Pressure Drop Flow Rate 45m ³ /h			
Configuration	Model	Quantity	Configuratio	Model	Quantity

				n		
Ball Valve Controller	F109B	1		Ball Valve Controller	F109B	1
DN40 Ball Valve	Q93102-40	5		DN50 Ball Valve	Q93102-50	5
DN32 Ball Valve	Q93102-32	8		DN32 Ball Valve	Q93102-32	8
Resistivity Meter	2976073	1		Resistivity Meter	2976073	1
Injector		2		Injector		2
Main Pipeline	Suggest to use bigger than DN	size I50		Main Pipeline	Suggest to u than DN65	se size bigger

4. Warranty Card

Dear client:

This warranty card is the guarantee proof of RUNXIN brand ball valve controller. 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	Ball Valve Controller							
Model			Code of Valve Body					
Purchase Company Name			Tel/Cel.					
Problem								
Solution								
Date of Repairing		Date of Accomplishmen	t	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 sent this card together with the product to the appointed suppliers or Runxin company.

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

Problem
Description

WENZHOU RUNXIN MANUFACTURING MACHINE CO., LTD.

ADD: JINGER ROAD, SHATOU GROUP, LINJIANG, LUCHENG DISTRICT, WENZHOU, ZHEJIANG, CHINA.

TEL: 0577-88630038 88576511 FAX: 0577-88633258

http://www.run-xin.com Email: sales@run-xin.com