User Manual for F56 Series

1.Product dimension (Images and dimensions are for reference only, please subject to the final product.)

F52/F56A/F56E/F56F/F56K/F56KY (The water inlet and outlet of F56F is opposite to the diagram)

B

Inlet

Outlet

Drain

Base O-ring

1.05"OD

Riser Pipe O-ring

A

H

N56D

B

A

Outlet

Inlet

Drain

Base O-ring

1.5"D-GB

Riser Pipe O-ring

A

H

F56AC/F56EC

B

Outlet

Drain

Inlet

Base O-ring

1.05"OD

Riser Pipe O-ring

A

H

F56L

B

Drain

Inlet

Outlet

Pressure Gauge
Connector G1/8
(Drill it when use it)

Base O-ring

Riser Pipe O-ring

1.25"D-GB/1.66"OD

A

H
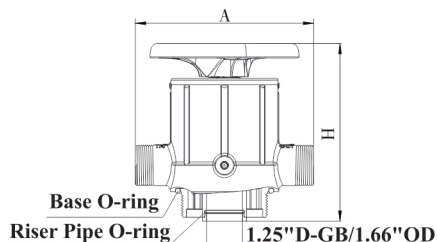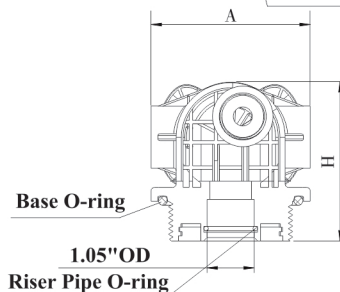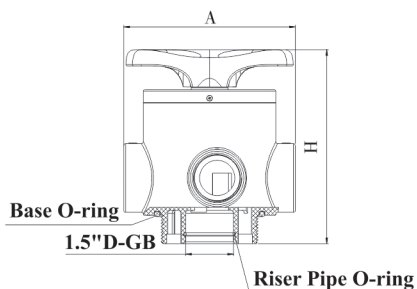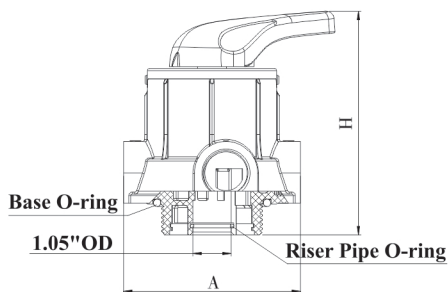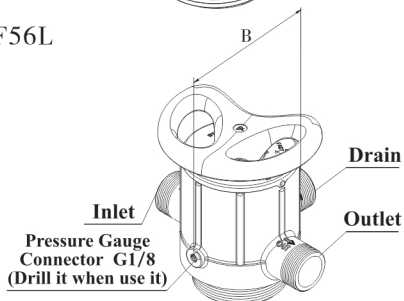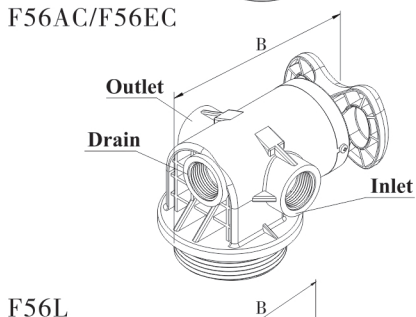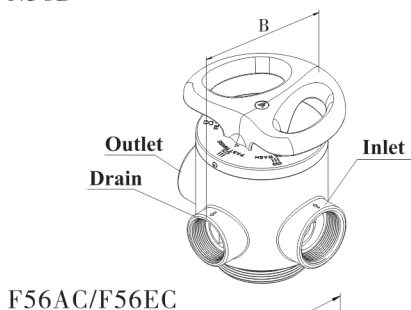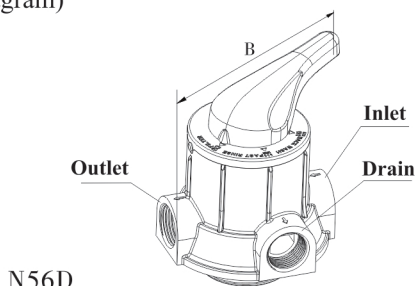
Outer Dimensions

Model	F56A	N56D	F56E	F56F	F56AC	F56EC	F52	F56L
A(mm) max	126	180	92	126	126	92	90	210
B(mm) max	150	178	130	160	175	135	140	193
H(mm) max	173	220	156	177	120	92	135	209

2.Service Conditions

Runxin Valve should be used under the following conditions:

Items		Requirements
Service Conditions	Pressure	0.15MPa~0.6MPa
	Water Temperature	5℃~50℃
Service Environment	Environment Temperature	5℃~50℃
	Relative Humidity	≤95%(25℃）
Source Water Quality	Turbidity	<20FTU

3.Technical Parameters

Old Model	Inlet/ Outlet	Drain	Base	Riser Pipe	Max Flow Rate m³/h	Tank Size (inch)	Remark
F52	1/2″F	1/2″F	M82×3	Φ16.5	1	6″~10″	
F56B	1/2″or 3/4″F	1/2″or 3/4″F	Tr95×6 or Φ 98 Sawtooth Thread	1.05″OD	1	10″Filter Shell	
F56C	1/2″or 3/4″F	1/2″or 3/4″F	Tr118×6 or Tr110×6	1.05″OD	1	20″Filter Shell	
F56E	1/2″or 3/4″F	1/2″or 3/4″F	2.5″-8NPSM	1.05″OD	2	6″~10″	
F56EC	1/2″or 3/4″F	1/2″or 3/4″F	2.5″-8NPSM	1.05″OD	2	6″~10″	Side-control
F56A	1″F	1″F	2.5″-8NPSM	1.05″OD	4	6″~12″	
F56AC	1″F	1″F	2.5″-8NPSM	1.05″OD	4	6″~12″	Side-control
F56F	1″F	1″F	2.5″-8NPSM	1″D-GB	6	6″~14″	
N56D	2″F	2″F	4″-8UN	1.5″D-GB	10	10″~24″	
F56L	1.5″M	1.5″M	4″-8UN	1.25″D-GB /1.66"OD	8	10″~24″	
F56K	1″F	1″F	2.5″-8NPSM	1.05″OD	4	6″~12″	
F56KY	1″F	1″F	2.5″-8NPSM	1.05″OD	4	6″~12″	Bypass

Note: F = Female Thread M = Male Thread OD = Outer Diameter D-GB = Chinese Standard Pipe Thread.
Water treatment capacity is related to designed flow rate, inlet water pressure and selected

filter materials. The above parameters are for reference only.

Bypass function: The inlet is connected to the outlet, water does not pass through the filter material.

4.Installation

①The filter should be as much close to the drain outlet as possible; and better make sure to install the system at the place where no much loss would be caused in case of water leakage.

②As in Figure 1, riser pipe should be installed neither more than 2mm above the mouth of tank, nor over 5mm below it, with its top end being made rounded to avoid damaging the O-ring of riser pipe.

Riser pipe should be installed neither more than 2mm above the mouth of tank, nor over 5mm below it.

Top end of riser pipe should be made rounded

Resin Tank

Riser Pipe

Figure 1

③Make sure not to slide off the O-ring of base when you install the valve.

④Keep inlet and outlet pipelines parallel with one another, and fix them with support holder.

⑤It's forbidden to use pipelines or connectors as supporting or lifting tool; Do not tighten or unscrew thread pipes with too much force, in case of damaging the valve.

⑥PPR pipe, corrugated pipe and UPVC pipe are recommended in pipeline construction instead of polyethylene-aluminum pipe.

⑦The control valve should be mounted above the drain outlet.

⑧As in Figure 2, it's forbidden to connect the drain pipeline directly to the drain outlet. Some certain space is needed in between in case that dirty water is siphoned back to the device.

⑨Handle and hand wheel can only be rotated to right or left, within its limits, and can't be flipped up and down.

Figure 2

5. System Configuration and Flow Rate Features
A. System Configuration and Flow Rate Parameters

Tank size				Activated Carbon Filter		Sand Filter	
Diameter	Height	Tank Volume	Filter Material Volume	Filter Flow Rate	Backwash Flow Rate	Filter Flow Rate	Backwash Flow Rate
in / mm	in	L	L	m^3/h	m^3/h	m^3/h	m^3/h
6 152	35	14.4	10	0.2	0.7	0.4	1.0
7 178	44	25.4	17	0.3	0.9	0.6	1.3
8 203	44	32.9	22	0.4	1.1	0.8	1.7
9 229	48	44.7	30	0.5	1.5	1.0	2.2
10 254	54	65.3	41	0.6	1.7	1.2	2.6
12 305	65	89.2	59	0.8	2.5	1.7	3.8
13 330	54	113.8	69	1.0	3.0	2.1	4.6
14 356	65	150.3	103	1.2	3.4	2.4	5.2
16 406	65	189.6	120	1.5	4.5	3.1	6.8
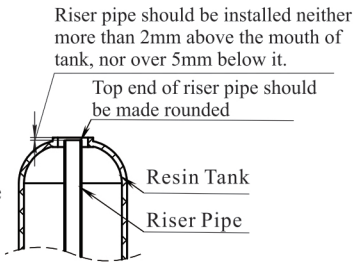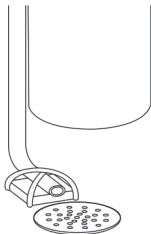
18	457	65	253	169	2.0	5.9	4.1	8.8
20	508	72	310.5	207	2.4	7.0	4.9	10.6
22	550	72	385	255	2.8	8.5	5.9	12.8
24	610	88	480	320	3.4	10.0	7.0	15.2

Note: The listed activated carbon filter flow rate is outcome of calculation based on a flow velocity of 12m/h; The backwash rate is based on a backwash intensity of 10L/(m^2*s). The above sand filter flow rate corresponds to a flow velocity of 25m/h; The backwash rate is related to a backwash intensity of 15L/(m^2*s).

B.Flow Rate Curve

F56A/F56AC/F56K/F56KY

N56D

F56E/F56EC

F56F

F56L