

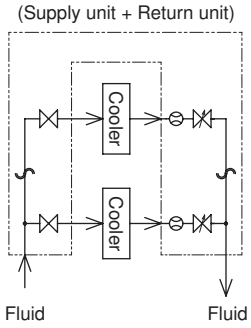
Integrated unit for water control One-fluid control

WXU-H/HC Series

- Port size: Rc3/8, Rc1/2, Rc1
- Flow rate range: 0.5 to 32 L/min

RoHS

[Application examples]



A single unit serves as supply and return units of coolant piping. A single unit serves as supply. Each circuit can be controlled separately. Adjust flow rate by using the valve at return side.

Common specifications

Item		WXU-H/HC
Working fluid		Water/hot water
Working pressure MPa		0 to 0.7
Proof pressure (water pressure) MPa		1.4
Fluid temperature °C		WXU-H:1 to 70/WXU-HC:1 to 85
Ambient temperature °C		5 to 50
Atmosphere		Place free of corrosive gas and explosive gas
Flow rate adjusting range %		0 to 100 (water) [with closing function]
Station No.		2 to 10 stations
Mounting orientation		Unrestricted
Sealant		Fluoro rubber
Port size	IN/OUT port	Rc1
	Branching ports	Rc3/8 or Rc1/2

Weight

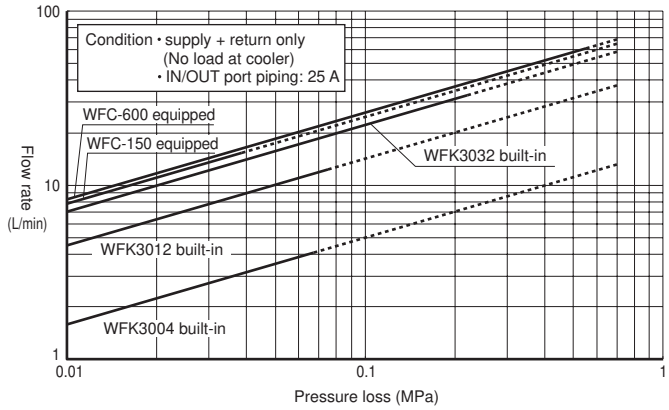
In-block (kg)	0.67
End block (kg)	0.63
One-station assembly (kg)	0.76
One-station assembly (WFC built-in)(kg)	1.00

Flow characteristics

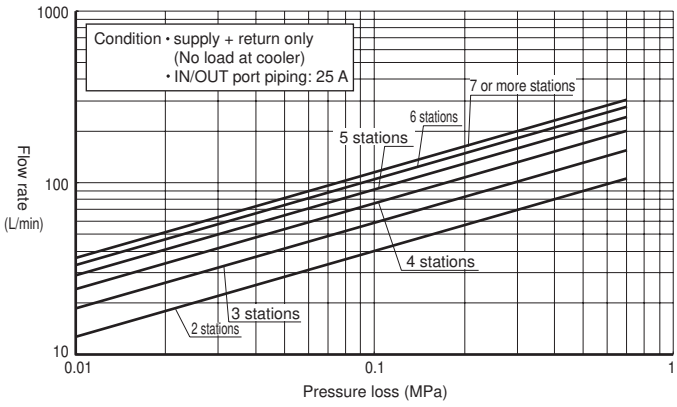
Supply/drain category	Configuration / Flow rate sensor	Cv
Supply side (one station)	-	3.00
Return side (one station)	WFK3004	0.35
	WFK3012	1.05
	WFK3032	1.80
	WFC-150	2.10
	WFC-600	2.30

Note: Make sure to check the flow rate of one station (each system) and overall unit.
(Refer to "Reading the Flow Properties Table" on Page 26.)

● One station



● Overall unit



When the configuration of all one-station assembly machines is identical, the entire unit can be displayed in the model number by selecting the codes. When assembling units from different configurations of one-station assembly components, specify the configuration in "Manifold specifications" (page 22).

How to order

● Karman vortex flow rate sensor

WXU-H - 6 - L - 15 - 12 - A0N0

Ⓐ Station No.

Code	Description
Ⓐ Station No.	
2	2 stations
to	to
10	10 stations

Ⓑ In-block position

Code	Description
Ⓑ In-block position	
L	Left
R	Right
W	Both sides

Ⓒ Port size (Branching ports)

Code	Description
Ⓒ Port size (branching port)	
10	Rc3/8
15	Rc1/2

Ⓓ Flow rate range for flow sensor

Code	Description
Ⓓ Flow rate range for flow sensor	
04	0.5 to 4.0 L/min
12	1.5 to 12 L/min
32	4.0 to 32 L/min

Ⓔ Flow rate sensor output (1)

Ⓕ Flow rate sensor output (2)

Ⓔ Flow rate sensor output (1)		Ⓕ Flow rate sensor output (2)				
		Blank	**N0**	**N1**	**P0**	**P1**
		Not required	Transistor output 1 point			
			NPN a contact	NPN b contact	PNP a contact	PNP b contact
A0	0 to 5 VDC	●	●	●	●	●
A1	4 to 20 mADC	●	●	●	●	●
A2	1 to 5 VDC	●	●	●	●	●
A3	0 to 10 VDC	●	●	●	●	●
N0	NPN transistor output, 2 points (a contact)	●				
N1	NPN transistor output, 2 points (b contact)	●				
P0	PNP transistor output, 2 points (a contact)	●				
P1	PNP transistor output, 2 points (b contact)	●				

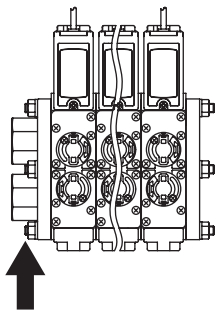
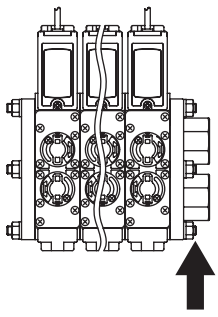
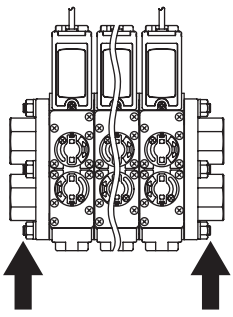
[Example of model No.]

WXU-H-6-L-15-12-A0N0

Model name: Integrated unit for water control One-fluid control

Ⓐ Station No. : 6 stations
Ⓑ In-block position : Left
Ⓒ Port size : Rc1/2
Ⓓ Flow rate range for flow sensor : 1.5 to 12 L/min
Ⓔ Flow rate sensor output (1) : 0 to 5 VDC
Ⓕ Flow rate sensor output(2) : NPN transistor output, 1 points (a contact)

Ⓑ In-block position

Code	L	R	W
Description	Left	Right	Both sides
Layout			

How to order

When the configuration of all one-station assembly machines is identical, the entire unit can be displayed in the model number by selecting the codes. When assembling units from different configurations of one-station assembly components, specify the configuration in "Manifold specifications" (page 23).

How to order

● Electromagnetic flow sensor

WXU-HC - 6 - L - 10 - 150 - N V - C3

Ⓐ Station No.

Ⓑ In-block position

Ⓒ Port size (Branching ports)

Ⓓ Flow rate range for flow sensor

Ⓔ Switch output

Ⓕ Analog output

Ⓖ Cable

Code	Description
Ⓐ Station No.	
2	2 stations
to	to
10	10 stations
Ⓑ In-block position	
L	Left
R	Right
W	Both sides

Ⓒ Port size (branching port)			
Flow rate range for flow sensor		150	600
10	Rc3/8	●	
15	Rc1/2		●

Ⓓ Flow rate range for flow sensor	
150	0.5 to 15 L/min
600	2.0 to 60 L/min
Ⓔ Switch output	
N	NPN transistor output
P	PNP transistor output
Ⓕ Analog output	
V	1 to 5 VDC
A	DC4~20mA
Ⓖ Cable	
Blank	None
C3	Cable (M12/4-conductor/3 m attached)
L3	L-type cable (M12/4-conductor/3 m attached)

[Example of model No.]

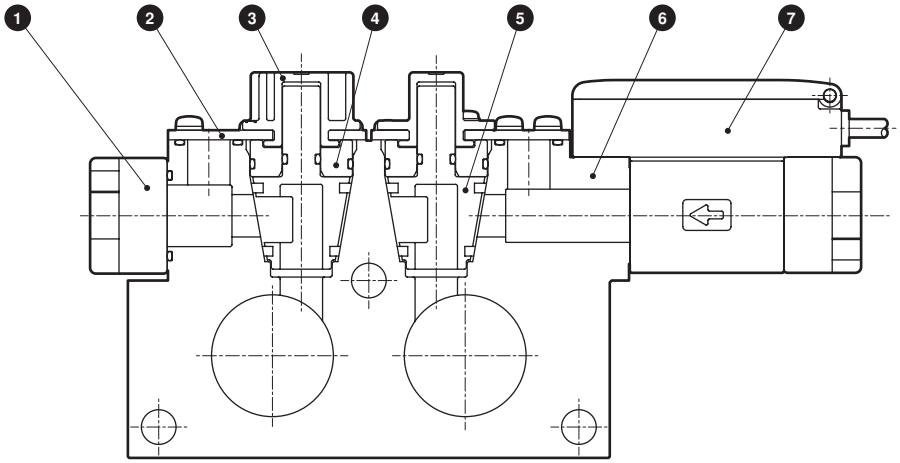
WXU-HC-6-L-10-150-NV-C3

Model name: Integrated unit for water control One-fluid control

Ⓐ Station No. : 6 stations
Ⓑ In-block position : Left
Ⓒ Port size : Rc3/8
Ⓓ Flow rate range : 0.5 to 15 L/min
Ⓔ Switch output : NPN transistor output
Ⓕ Analog output : 1 to 5 VDC
Ⓖ Cable : Included

Internal structure diagram and parts list

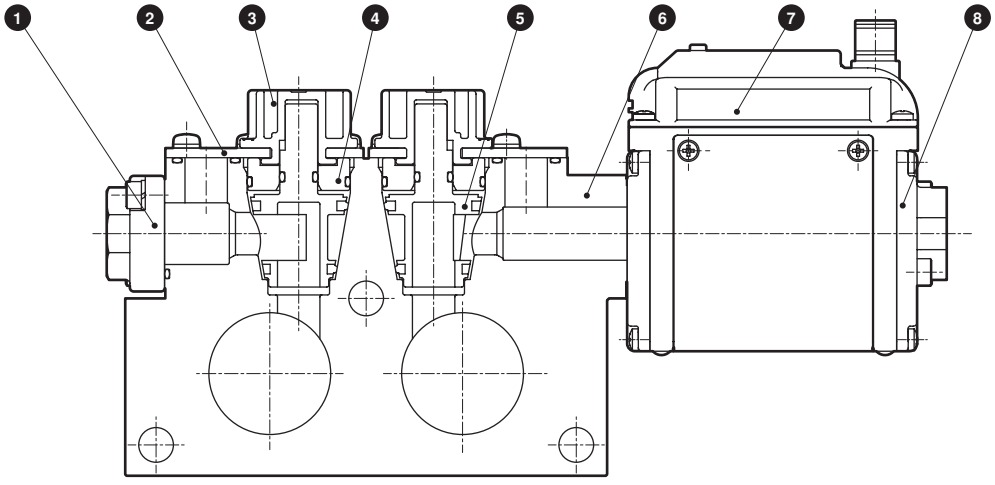
● Karman vortex flow rate sensor



[Valve is fully opened at shipment.]

Part No.	Part name	Material	
1	Attachment	SCS13	Stainless steel casting
2	Plate	SUS304	Stainless steel
3	Knob	PBT	Polybutylene terephthalate
4	Spacer	PPS	Polyphenylene sulfide
5	Cock	PPS FKM	Polyphenylene sulfide Fluoro rubber
6	Base	PPS	Polyphenylene sulfide
7	Flow rate sensor [WFK3000 Series]		

● Electromagnetic flow sensor

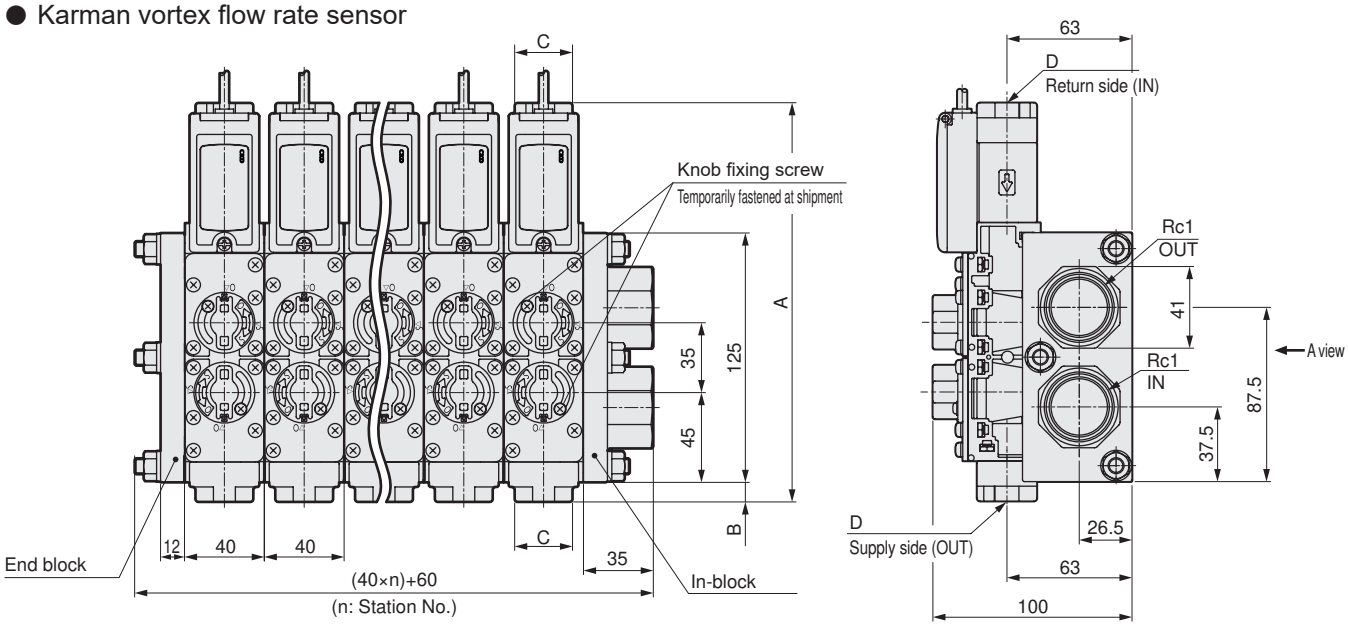


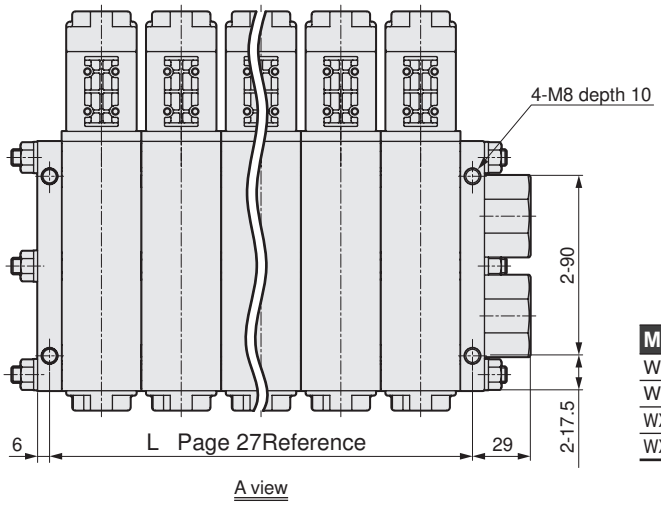
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2	Plate	SUS304	Stainless steel
3	Knob	PBT	Polybutylene terephthalate
4	Spacer	PPS	Polyphenylene sulfide
5	Cock	PPS FFM	Polyphenylene sulfide Fluoro rubber
6	Base	PPS	Polyphenylene sulfide
7	Flow rate sensor [WFC Series]		
8	Socket	CAC804 or C6931	Copper alloy

Dimensions

● Karman vortex flow rate sensor





Model No.	A	B	C	D	E
WXU-H-***-10-**	190	5	24	Rc3/8	-
WXU-H-***-15-**	200	10	29	Rc1/2	-
WXU-HC-***-10-150-***	218	5	24	Rc3/8	24
WXU-HC-***-15-600-***	228	10	29	Rc1/2	28

● Electromagnetic flow sensor

