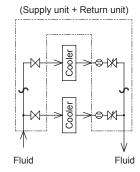


### [Application examples]



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

### Integrated unit for water control One-fluid control

VXU-H/HC Series

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



### Common specifications

Descript	tions		WXU-H/HC		
Working f	luid		Water/hot water		
Working p	Working pressure MPa		0 to 0.7		
Proof pres	Proof pressure (water pressure) MPa		1.4		
Fluid tem	Fluid temperature °C		WXU-H:1 to 70/WXU-HC:1 to 85		
Ambient temperature °C		°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	Sealant		Fluoro rubber		
Port size	IN/OUT port		Rc1		
FUILSIZE	Branching ports		Rc3/8 or Rc1/2		

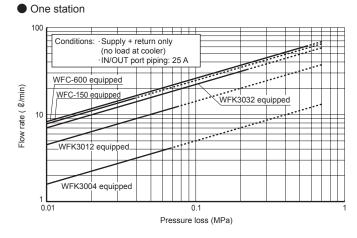
### Weight

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

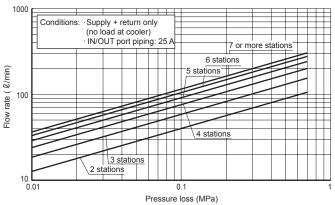
### Flow characteristics

Supply/drain	Configuration	Cv		
category	Flow rate sensor	ŬV		
Supply side (one station)	-	3.00		
	WFK3004	0.35		
Doturn oido	WFK3012	1.05		
Return side (one station)	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 24)



#### Overall unit



### WXU-H/HC Series

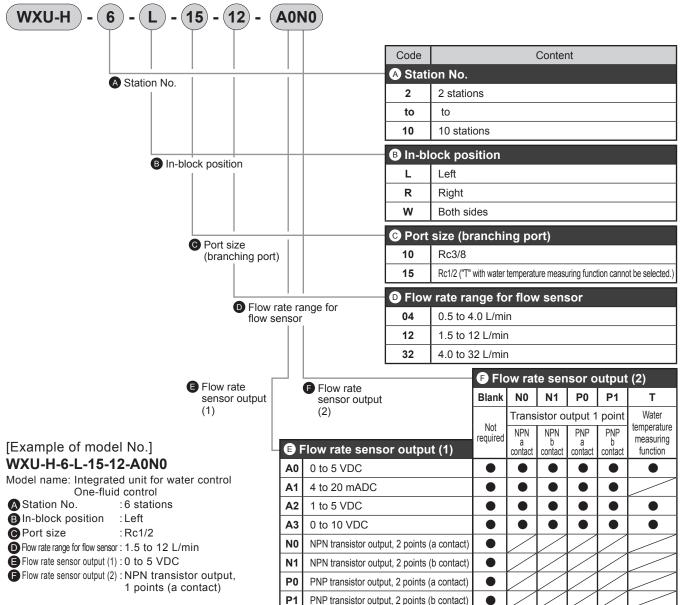
How to order

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.

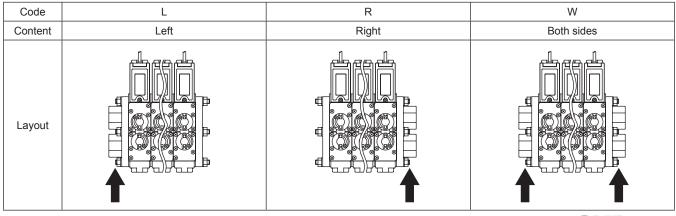
When assembling a unit from different configurations of one-station assembly machines, specify the configuration in "Manifold specifications" (page 22).

### How to order

Karman vortex flow rate sensor



### B In-block position



# WXU-H/HC Series

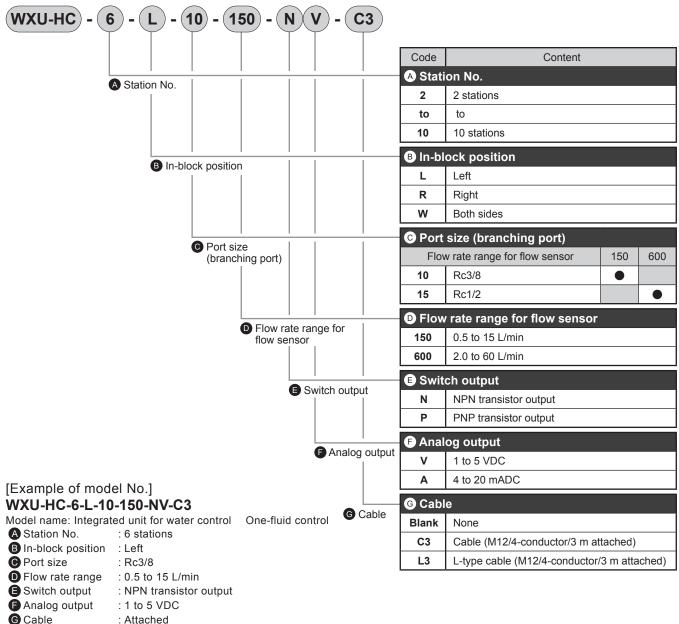
How to order

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 a unit from different configurations of one-station assembly machines, specify the configuration in "Manifold specifications" (page 23).

### How to order

Electromagnetic flow sensor

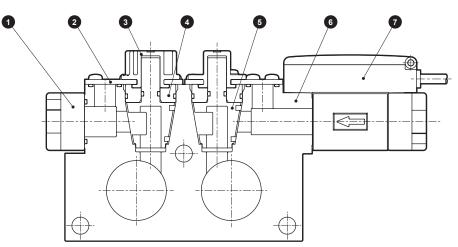




### Internal structure and parts list

Karman vortex flow rate sensor

Electromagnetic flow sensor



[Valve is fully opened at shipment.]

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	Polyphenylene sulfide			
5	COCK	FKM	Fluoro rubber			
6	Base	PPS Polyphenylene sulfide				
7	Flow rate sensor [WFK3000	) Series]				

# 

[Valve is fully opened at shipment.]

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	Polyphenylene sulfide			
5	COCK	FFM	Fluoro rubber			
6	Base	PPS	Polyphenylene sulfide			
7	Flow rate sensor [WFC Ser	ies]				
8	Socket	CAC804	Copper alloy			

# WXU-H/HC Series

Dimensions

Dimensions

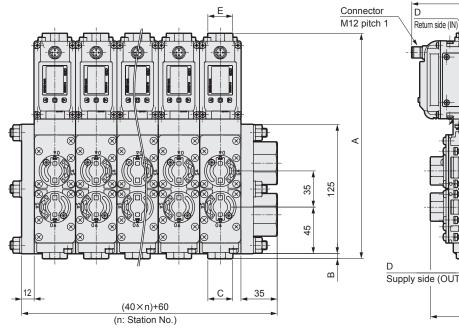
• Karman vortex flow rate sensor 63 С D Return side (IN) 田田一業 Knob fixing screw 田田市 Ð Temporarily fastened at shipment Rc1 OUT € đ  $\odot$ ∢ 4 € 125 35 Rc1 IN ŝ 87. 37.5 45 ¢ Г m D 26.5 С ▶ 12 40 40 Supply side (OUT) 35 End block 63 In-block (40×n)+60 100 (n: Station No.) 4-M8 depth 10 ¢ OH. € 2-90 

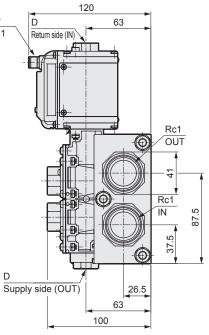
6 L Refer to page 20. <u>A view</u>

Model No.	A	В	С	D	Е
WXU-H-***-10-**	190	5	24	Rc3/8	-
WXU-H-***-10-**T	205	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

– A view

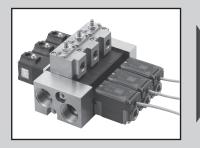
Electromagnetic flow sensor



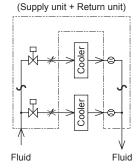


5

**CKD** 



### [Application examples]



A single unit serves as supply and return for the cooling piping. Each circuit can be controlled separately. Integrated unit for water control One-fluid control

WXU-J Series

Port size: Rc3/8, Rc1/2, Rc3/4, Rc1
Flow rate range: 0.5 to 32 l/min



### Common specifications

	•						
Descript	tions		WXU-J				
Working fluid			Water/hot water				
Working p	pressure	MPa	0 to 0.4 (Note)				
Proof pres	ssure (water pressure)	MPa	1.0				
Fluid temp	Fluid temperature °C		1 to 70				
Ambient temperature °C		°C	5 to 50				
Atmosphe	Atmosphere		Place free of corrosive gas and explosive gas				
Flow rate	adjusting range	%	0 to 100 (water) [with closing function]				
Station No	0.		2 to 10 stations				
Mounting	orientation		Unrestricted				
Sealant			Fluoro rubber				
Port size	IN/OUT port		Rc3/4 or Rc1				
Port Size	Branching ports		Rc3/8 or Rc1/2				

Note: Contact CKD about use at pressure higher than working pressure.

### Weight

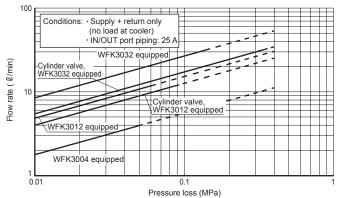
		Port size	-
In-block (	(kg)	20A	1.30
		25A	1.20
End block (	(kg)		1.05
	(1)	Supply side Cylinder valve	
One station assembly (	(kg)	Large flow rate specifications	1.29
		None	1.05

### Flow characteristics

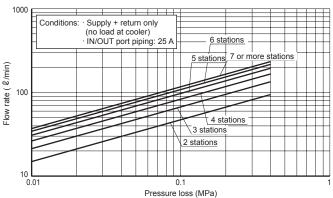
Supply/drain	Configu	Cv		
category	Cylinder valve	Flow rate sensor	Cv	
Supply side	Large flow rate specifications	-	1.34	
(one station) None		-	2.51	
Datum side		WFK3004	0.41	
Return side (one station)	-	WFK3012	1.18	
(one station)		WFK3032	2.82	

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 24)

#### One station



#### Overall unit



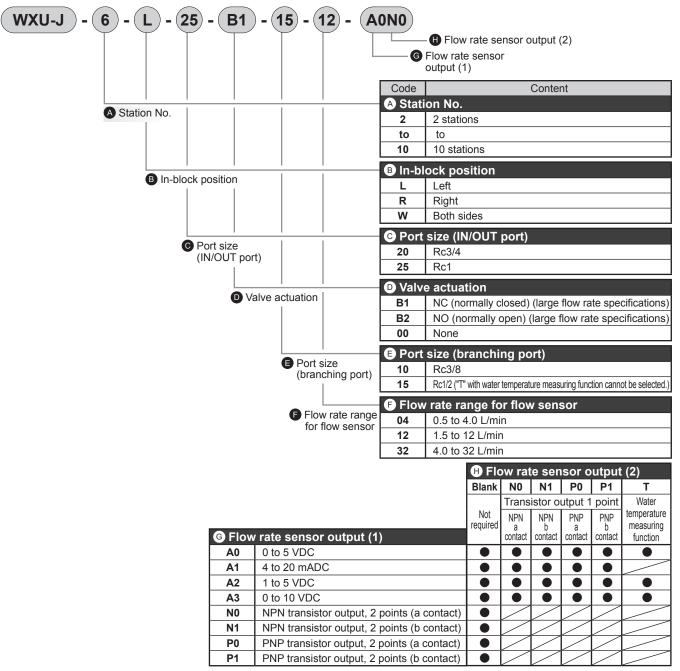
# WXU-J Series

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 a unit from different configurations of one-station assembly machines, specify the configuration in "Manifold specifications" (page 24).

### How to order



[Example of model No.] WXU-J-6-L-25-B1-15-12-A0N0

Model name: Integrated unit for water control One-fluid control : 6 stations

A Station No.

- B In-block position : Left : Rc1
- Port size

: NC (normally closed) (large flow rate specifications) **D** Valve actuation

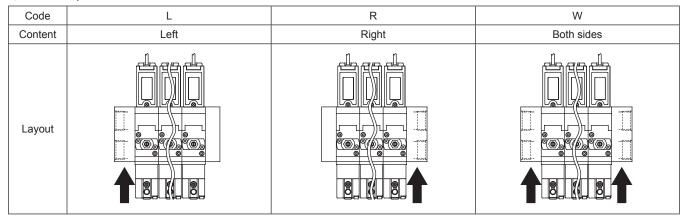
- Port size : Rc1/2
- Flow rate range for flow sensor : 1.5 to 12 L/min
- G Flow rate sensor output (1) : 0 to 5 VDC
- Flow rate sensor output (2) : NPN transistor output, 1 points (a contact)

7

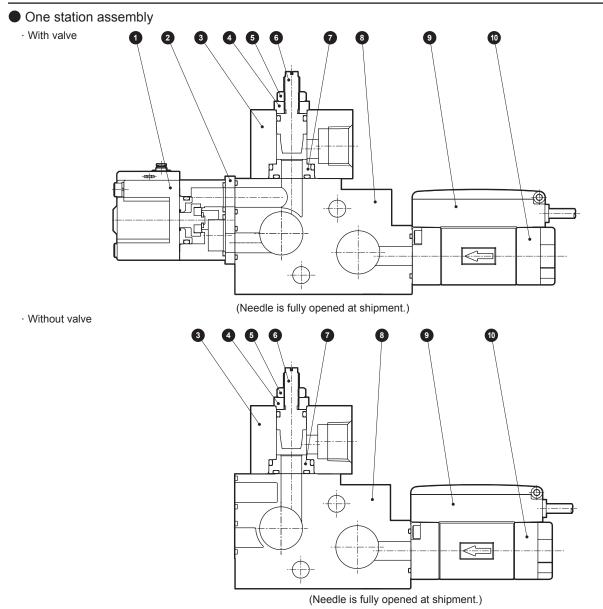
WXU-J Series

In-block position/Internal structure and parts list

### B In-block position



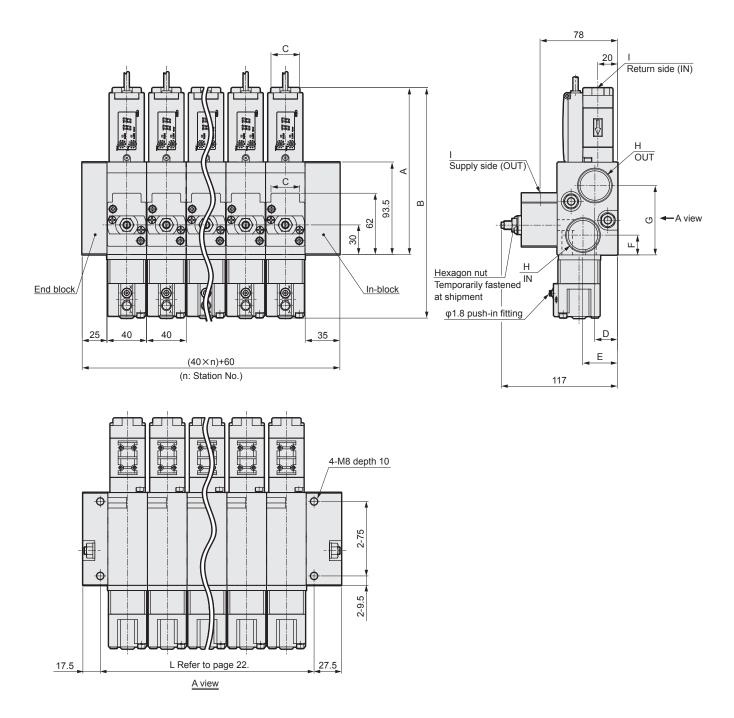
### Internal structure and parts list



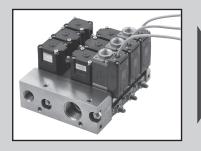
No.	Part name		Material
1	Cylinder valve [GI	NAB Series]	
2	Plate	SUS304	Stainless steel
3	Needle block	SUS304	Stainless steel
4	Needle stopper	SUS304	Stainless steel
5	Hexagon nut	SWCH	Carbon steel for cold rolling

No.	Part name	Material				
6	Needle	SUS304	Stainless steel			
7	Valving element	PP	Polypropylene			
8	Base	PPS Polyphenylene sulfide				
9	Flow rate sensor [	WFK3000 S	eries]			
10	Attachment	SCS13	Stainless steel casting			

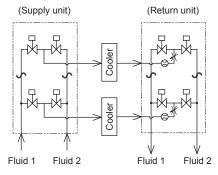




Model No.	A	В	С	D	E	F	G	Н	1
WXU-J-***-20-***-10	164	228	24	22	33	24	65	Rc3/4	Rc3/8
WXU-J-***-25-***-10	164	228	24	23	35	20	70	Rc1	Rc3/8
WXU-J-***-20-***-15	169	233	29	22	33	24	65	Rc3/4	Rc1/2
WXU-J-***-25-***-15	169	233	29	23	35	20	70	Rc1	Rc1/2



### [Application examples]



It enables flow of two kinds of fluid (e.g., water and air). Suitable for systems with both coolant and air purge. Each circuit can be controlled separately. (2 units are used)

Integrated unit for water control Two-fluid control

• Port size: Rc3/8, Rc1/2, Rc1

Flow rate range: 0.5 to 32 & /min



### Common specifications

Descriptions			WXU-P		
Working fluid			Water, hot water, air		
Working pressure MPa		MPa	0 to 0.4 (Note)		
Proof pressure (water pressure) MPa		MPa	1.0		
Fluid temperature °C		°C	1 to 70		
Ambient temperature °C		°C	5 to 50		
Atmosphere			Place free of corrosive gas and explosive gas		
Flow rate adjusting range %		%	15 to 100 (water)		
Station No.			2 to 6 stations		
Mounting orientation			Unrestricted		
Sealant			Fluoro rubber		
	Port for fluid 1		Rc1		
Port size	Port for fluid 2		Rc1/2		
	Branching ports		Rc3/8 or Rc1/2		

Note: Contact CKD about use at pressures higher than working pressure.

### Weight

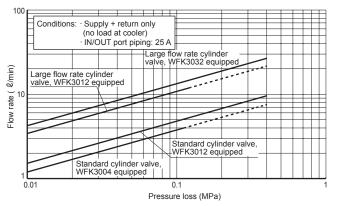
In-block	(kg)			2.60
End block	(kg)	i i i i i i i i i i i i i i i i i i i		0.70
	Supply/drain	Cylinder valve	Cylinder valve	
One	category	for fluid 1	for fluid 2	-
station	Supply side	Standard specifications	Standard specifications	0.87
assembly		Large flow rate specifications	Standard specifications	0.90
(kg) Return side		Standard specifications	Standard specifications	1.14
( 0)		Large flow rate specifications	Standard specifications	1.17

### Flow characteristics

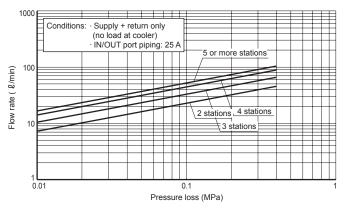
Supply/drain	Configuration		Fluid 1 side	Fluid 2 side	
category	Cylinder valve	Flow rate sensor	Cv value	C[dm³/(s · bar)]	b
Supply side (one station)	Standard specifications	-	0.44	1.4	0.2
	Large flow rate specifications	-	1.28	3.0	0.1
	Standard specifications	WFK3004	0.33	1.4	0.2
Return side		WFK3012	0.52	1.4	
(one station)	Large flow rate specifications	WFK3012	0.94	3.0	0.1
		WFK3032	1.37	3.0	

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 24)

#### One station



#### Overall unit



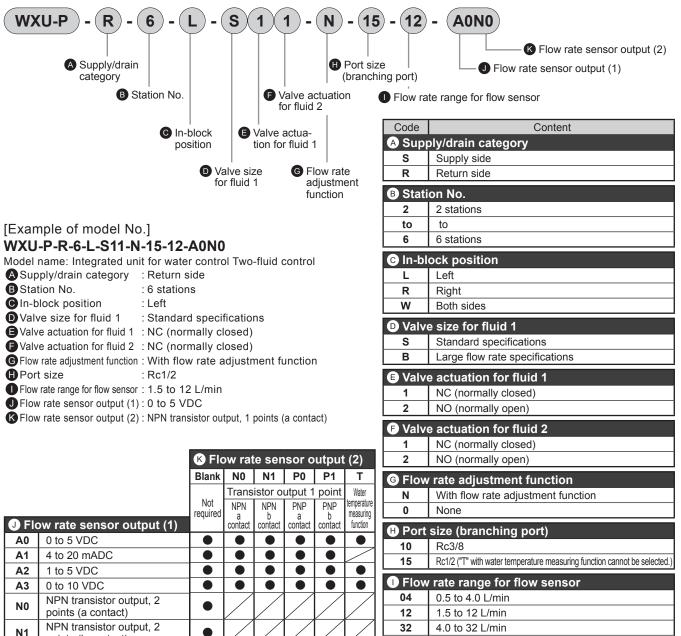
# WXU-P Series

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 a unit from different configurations of one-station assembly machines, specify the configuration in "Manifold specifications" (page 25).

### How to order



00

Without flow sensor (A Supply/drain category "S")

P0

**P1** 

000

points (b contact)

points (a contact) PNP transistor output, 2

points (b contact) Without flow sensor

PNP transistor output, 2

(A Supply/drain category "S"

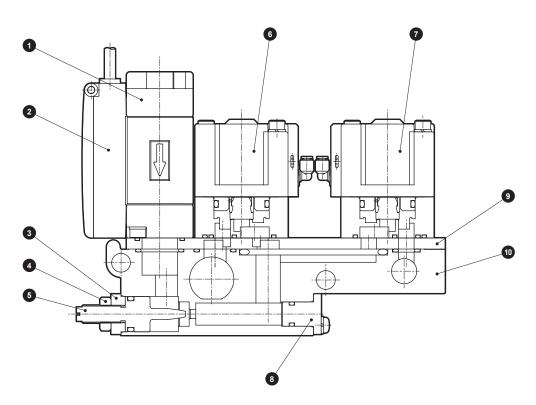
WXU-P series

### C In-block position

Code	L	R	W	
Content	Left	Right	Both sides	
Layout				

### Internal structure and parts list

### • One station assembly



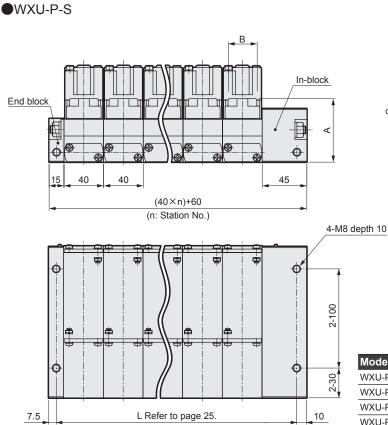
(Needle is fully opened at shipment.)

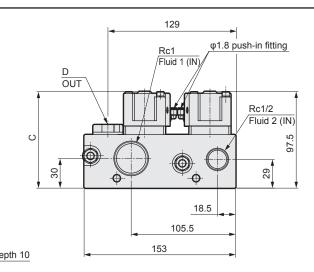
No.	Part name	Material			
1	Attachment	SCS13 Stainless steel casting			
2	Flow rate sensor [WFK3000 Series]				
3	Needle stopper	SUS304	Stainless steel		
4	Hexagon nut	SWCH	Carbon steel for cold rolling		
5	Needle	SUS304	Stainless steel		
6	Cylinder valve for fluid 1 [GNAB Series]				
7	Cylinder valve for fluid 2 [GNAB Series]				
8	Plug	SUS304	Stainless steel		
9	Plate	SUS304	Stainless steel		
10	Base	PPS	Polyphenylene sulfide		

## WXU-P Series

### Dimensions

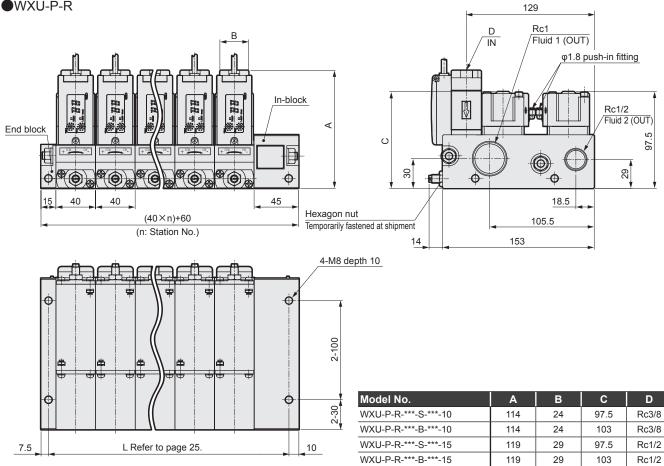
### Dimensions





Model No.	A	В	C	D
WXU-P-S-***-S-***-10	59	24	97.5	Rc3/8
WXU-P-S-***-B-***-10	59	24	103	Rc3/8
WXU-P-S-***-S-***-15	64	29	97.5	Rc1/2
WXU-P-S-***-B-***-15	64	29	103	Rc1/2

**WXU-P-R** 



**CKD** 13