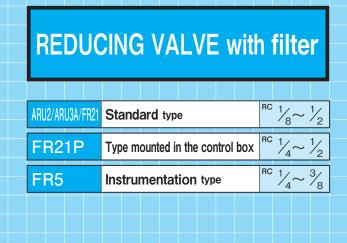
KONAN[®]

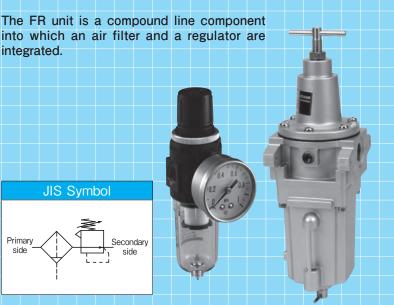
Download PDF catalog data from the following website —

URL=https://www. konan-em.com/ **Pneumatic**

LINE COMPONENTS







Model Code

When ordering, specify the model as follows:

Standard type

Rc
$$1/8 \sim 1/4$$
 ARU2 $-02 - \bigcirc{0}$ Port size Pressure Pr

% In case of FR21S-04- 4 -HT- 7 - 8 - 9 or FR21S-04- 4 -LT- 7 - 8 - 9 Pressure gauge is made by stainless steel. The code is GS".

Type mounted in the control box The drain discharge department have not a drain cook, and have a screw of Rc1/8.

% In case of FR21PS-04- 4 -HT- 7 - 8 or FR21PS-04- 4 -LT- 7 - 8 Pressure gauge is made by stainless steel. The code is GS".

Instrumentation type



** In case of FR5S-02- ③ -HT-G- ⑨
Pressure gauge is special specifications. The code is "GS".

1 Corrosion-resistant

Portions that are exposed to outside weather conditions are corrosion-resistant coating and the exposed bolts, nuts and brackets are stainless steel.

Standard	No entry
Corrosion-resistant type	S

2 Port	size
--------	------

Rc 1/8	6A
Rc 1/4	8A

3 Port size	
Rc 1/4	8A
Rc 3/8	10A

7 Filter rating of element

General purpose	40 μm	No entry
Instrumentation	5 μm	5

(for ARU2/FR5),note that a filter rating of 5 microns only is available.

4 Port size

Rc 3/8	10A
Rc 1/2	15A

5 Operating temperature range

General purpose	-20 ~ 60°C	No entry
Heat-resistant	5 ~ 100℃	HT
Freeze-resistant	- 40 ~ 45°C	LT

- For corrosion.freeze resistant type,allow
- In operating temperatures of 5°C or less, provide adequate measures against freezing.

8 Pressure gauge

Without	No entry
With	G

- Pressure gauge sizes 50mm dia. (for ARU3A) 40mm dia. (Others) Scale : 0 ~ 0.2MPa (for FR5) 0 ~ 1.0MPa (Others)
- Pressure gauge is not mounted but appended with regulators.

6 Operating temperature range

General purpos	e −20 ~ 60°C	No entry
Heat-resistant	5 ~ 100℃	HT

- For corrosion.freeze resistant type,allow some margin for delivery.
 In operating temperatures of 5°C or less, provide adequate measures against freezing.

9 Bracket Without No entry With BR

Bracket is not mounted but appended with regulators.



Reducing valve with filter

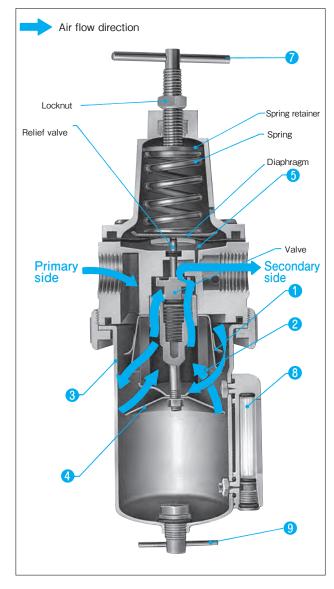
Specifications

	Standard type	ARU2 – 02				ARU3A - 03		FR21 - 04	
Model code	In the control box							FR21	P - 04
Code	Instrumentation type				FR5 – 02				
Port size		6A	8A	8A	10A	8A	10A	10A	15A
		Rc1/8	Rc1/4	Rc1/4	Rc3/8	Rc1/4	Rc3/8	Rc3/8	Rc1/2
Operating	Primary side (IN)	Max. 1.0MPa							
pressure	Secondary side (OUT)	0.05 ~ 0.7MPa		0.02 ~ 0.2MPa		0.05 ~ 0.7MPa			
Proof pressure		1.5MPa							
Operating temperature range		- 20 <i>-</i>	~ 60℃	General purpose		Hea			
Filter rating of element		5μ	ιm	5μm		See Model Code section.		า.	
Mass		0.2	6kg	1kg		0.7kg 0.88kg		8kg	

- Above values of mass exclude weight of mounting bracket.
- For specifications other than those listed above, please contact us.

Operation

Standard type



1 Deflector

 Turns air from the primary side into a rotating air flow and separates moisture from the air by centrifugation.

2 Filter element

• Finally filters out lightweight dirt and dust, foreign particles, etc. that cannot be separated from the air by certrifugation.

Bowl

 The drain separated by centrifugation runs down the internal wall of the bowl and collects at the bottom.

4 Baffle plate

• Prevents the drain in the bowl from re-entering the air.

5 Diaphragm chamber

- Air pressure from the primary side enters the diaphragm chamber at the same time that it does the secondary side through the filter.
 The diaphragm is forced up until the pressure in the diaphragm chamber is equal to th spring force. The valve is then closed.
- As the pressure in the secondary side drops, the valve is opened and the primary-side air pressure is furnished to the secondary side again.

6 Relief valve

• When the handle is turned counterclockwaise to lower the set pressure, the spring force weakens compared with the pressure in the diaphragm chamber. This forces the diaphragm up and opens the relief valve, thus releasing the air pressure in the secondary side to the atmosphere until that pressure is equal to the spring force.

7 Handle (adjusting screw)

- To lower the set pressure, turn the handle counterclockwise.
- Turning the handle clockwise causes the adjusting screw tip to force the spring retainer down, thus compressing the spring.
 This opens the valve, and the air pressure entering the primary side flows to the secondary side.

8 Side glass

Used to check the accumulating drain fluid quantity.

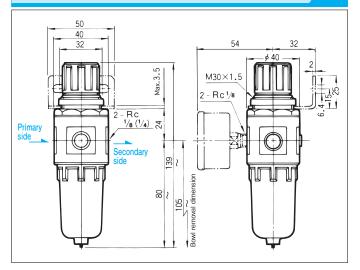
9 Drain cock

 Turning the handle of this cock allows the drain fluid to be discharged.

Outside Dimensions

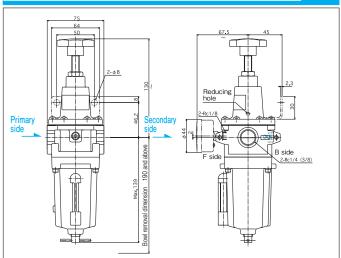
Standard type

ARU2-02-06 · 8A

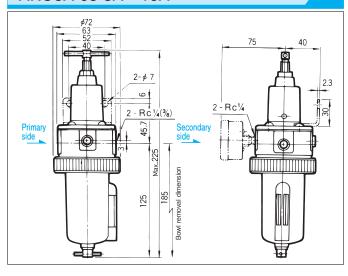


Instrumentation type

FR5-02-8A · 10A

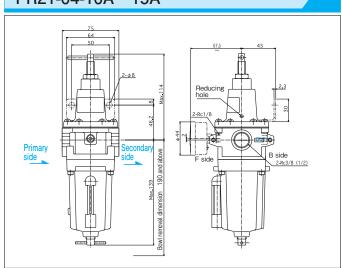


ARU3A-03-8A · 10A

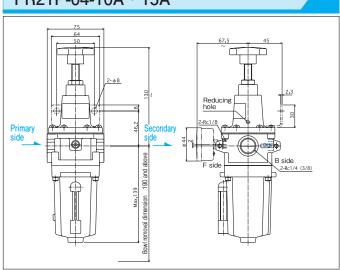


Type mounted in the control box

FR21-04-10A · 15A



FR21P-04-10A · 15A



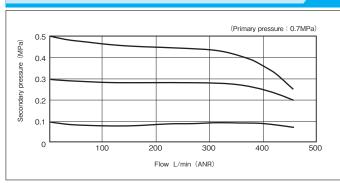
Reducing valve with filter

Performance Tables

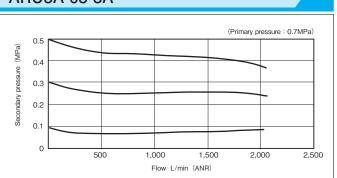
Flow characteristics graphs

Standard and Panel-mount type

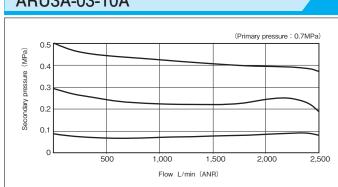
ARU2-02-6A · 8A



ARU3A-03-8A

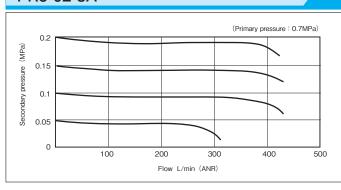


ARU3A-03-10A

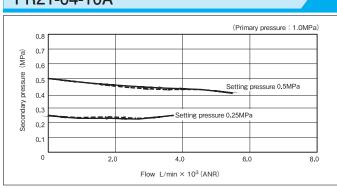


Instrumentation type

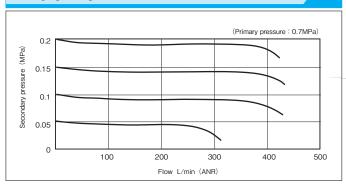
FR5-02-8A



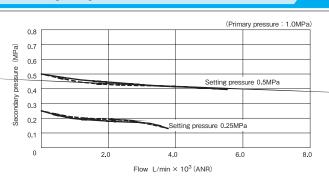
FR21-04-10A



FR5-02-10A



FR21-04-15A



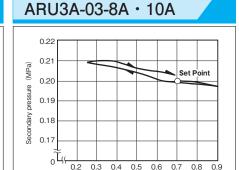
Performance Tables

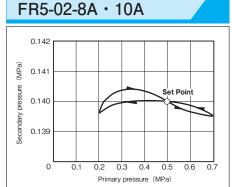
Pressure characteristics graphs

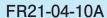
Standard and Panel-mount, Instrumentation type

ARU2-02-6A · 8A (MPa) 0.21 Secondary pressure 0.20

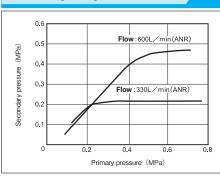
0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9



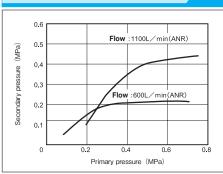




0.19







Relief characteristics graphs

Standard and Panel-mount type

