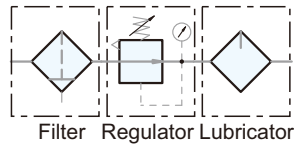


■ Symbol



■ Features

1. Remove water and particle effectively.
2. 40μm and 5μm filter element are easily interchangeable and replaceable.
3. Accurate and easy pressure setting.
4. Lubricator oil can be replenished without stopping air supply.
5. Oil spray in mist ensures good lubrication for machines.
6. Anti-acid & alkali bowl and aluminum bowl provide excellent protection in organic chemistry working environments.
(Please contact our sales for more inquiries.)



*Lubricator oil (Recommended): ISO-VG32

■ How to order

UCFRL – 02	N	C	G	H	A	SB	
Filter + Regulator +Lubricator	Port size	Thread	Filtration	Gauge type	Drain	Bowl	Spacer block
02 :1/4"	Blank :G	PE	Blank :5µm	Blank :Square	Blank :Semi-auto drain	Blank :Standard bowl	Blank :W/O spacer block
03 :3/8"	N :NPT	Blank :5µm	C :40µm	G :Circle	H :Manual drain	A :Anti-acid & alkali bowl	SB :Spacer block (Port size 1/4")
04 :1/2"	R :Rc		Sintered brass		D :Auto drain	AL :Aluminum bowl	
			S :5µm				
			T :40µm				

Please contact our sales for non-relieving type.

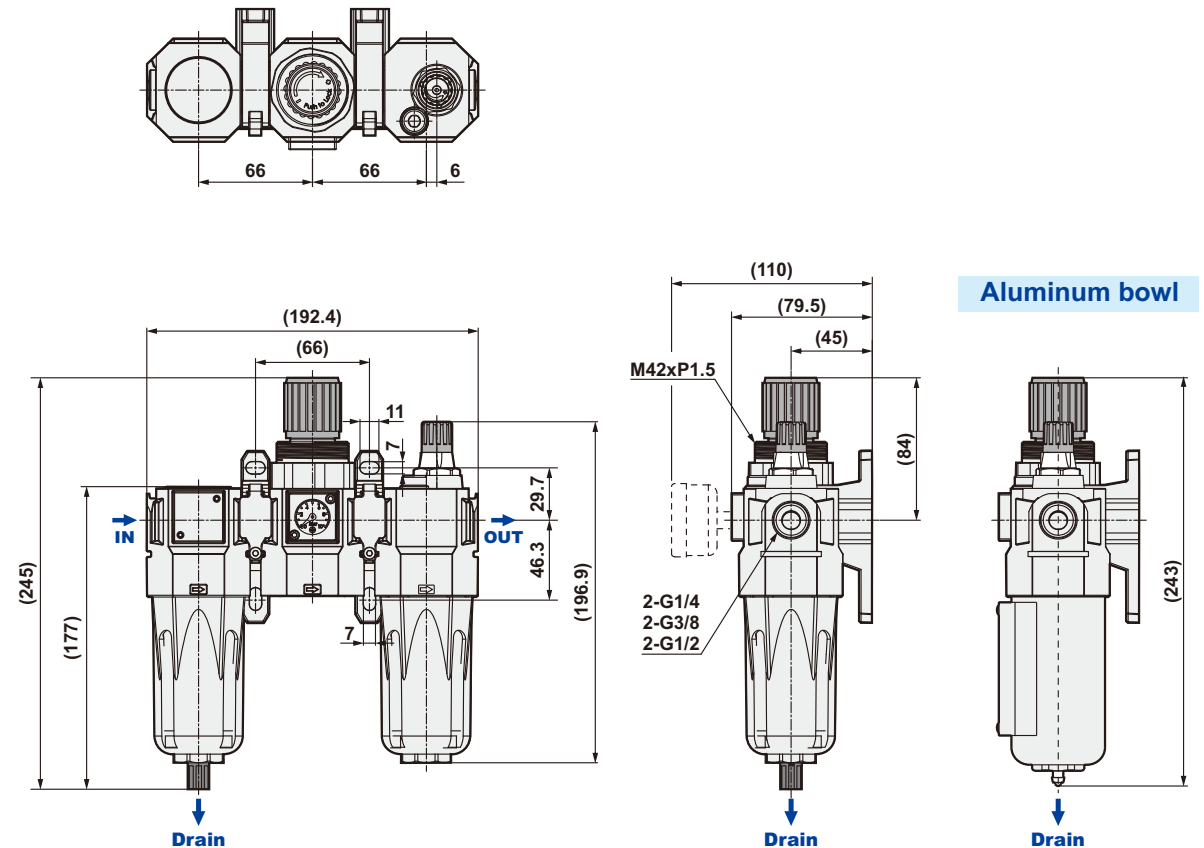
*For non-relieving type, the secondary pressure is not allowed to be exhausted when it is higher than setting pressure.

■ Specifications

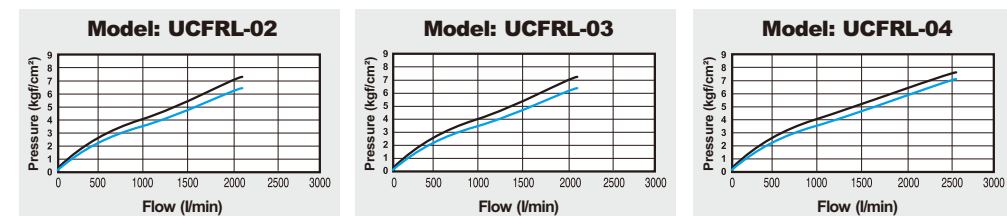
Model	UCFRL-02	UCFRL-03	UCFRL-04
Port size	1/4"	3/8"	1/2"
Fluid	Compressed air		
Regulator construction	Piston		
Body material	Aluminum die-cast		
Bowl material	Polycarbonate (Standard), Anti-acid & alkali bowl (Option), Aluminum bowl (Option)		
Filtration	PE: 5μm (Standard), 40μm (Option); Sintered brass (Option): 5μm, 40μm		
Operating pressure range	0.5 ~ 9.9 kgf/cm ²		
Max. inlet pressure	15 kgf/cm ²		
Max. flow rate l/min (ANR) 40μm	2080	2100	2600
Ambient temperature	-10°C ~ 60°C		
Filter bowl capacity	105cc		
Lubricator bowl capacity	125cc		
Standard drain	Semi-auto drain (Drains below 0.5kgf/cm ²)		
Net weight	2000g (Al bowl 2600g)		
Option	Spacer block		

■ Dimensions

UCFRL-02, 03, 04



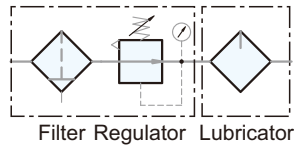
■ Flow chart



■ Note:

X axis: Flow (l/min)
Y axis: Pressure (kgf/cm²)
Blue line (P0) = Outlet pressure
Black line (P1) = Inlet pressure
P1-P0= Pressure range

■ Symbol



■ Features

1. Remove water and particle effectively.
2. 40µm and 5µm filter element are easily interchangeable and replaceable.
3. Accurate and easy pressure setting.
4. Lubricator oil can be replenished without stopping air supply.
5. Oil spray in mist ensures good lubrication for machines.
6. Anti-acid & alkali bowl and aluminum bowl provide excellent protection in organic chemistry working environments.
(Please contact our sales for more inquiries.)



*Lubricator oil (Recommended): ISO-VG32

■ How to order

UCFR/L – 02	N	C	G	H	A	SB	
Filter Regulator +Lubricator	Port size	Thread	Filtration	Gauge type	Drain	Bowl	Spacer block
	02 :1/4"	Blank :G	PE	Blank :Square	Blank :Semi-auto drain	Blank :Standard bowl	Blank :W/O
	03 :3/8"	N :NPT	Blank :5µm	G :Circle	H :Manual drain	A :Anti-acid & alkali bowl	spacer block
	04 :1/2"	R :Rc	C :40µm		D :Auto drain	AL :Aluminum bowl	SB :Spacer block (Port size 1/4")
			Sintered brass				
			S :5µm				
			T :40µm				

Please contact our sales for non-relieving type.

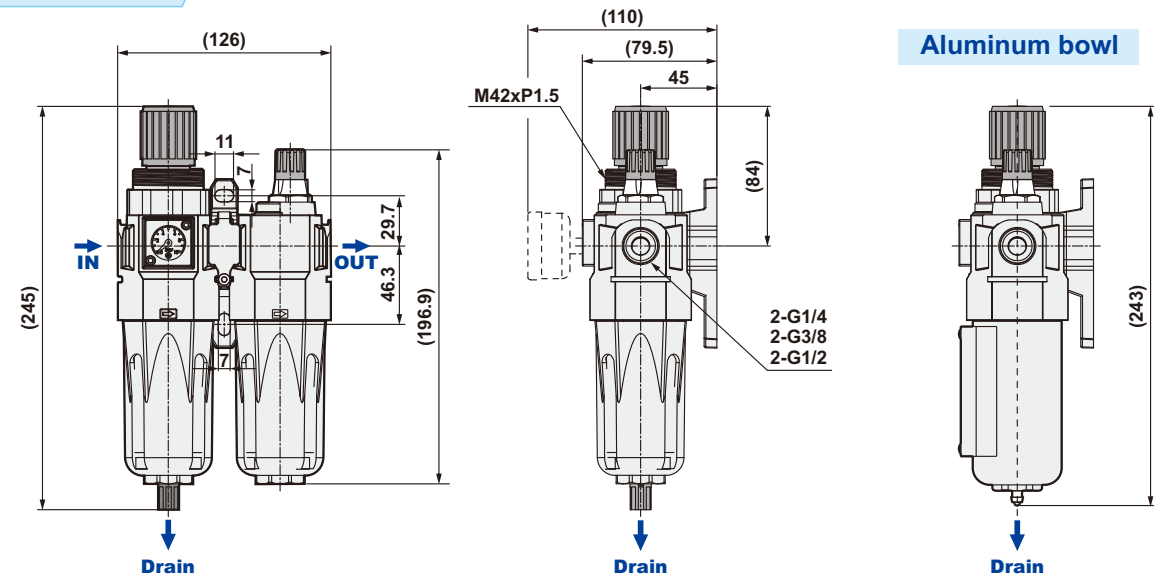
*For non-relieving type, the secondary pressure is not allowed to be exhausted when it is higher than setting pressure.

■ Specifications

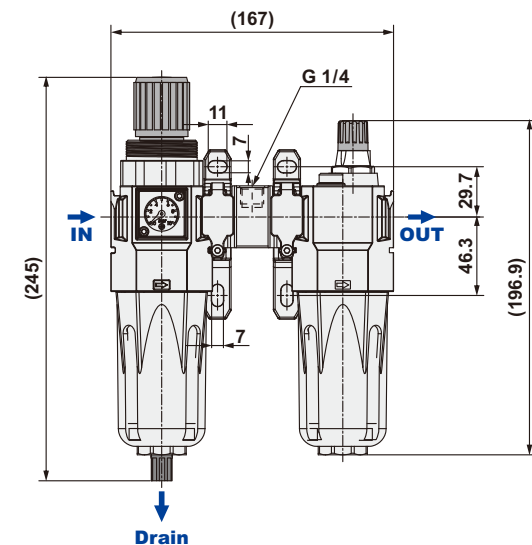
Model	UCFR/L-02	UCFR/L-03	UCFR/L-04
Port size	1/4"	3/8"	1/2"
Fluid	Compressed air		
Regulator construction	Piston		
Body material	Aluminum die-cast		
Bowl material	Polycarbonate (Standard), Anti-acid & alkali bowl (Option), Aluminum bowl (Option)		
Filtration	PE:5µm(Standard), 40µm(Option), Sintered brass (Option):5µm,40µm		
Operating pressure range	0.5 ~ 9.9 kgf/cm ²		
Max. inlet pressure	15 kgf/cm ²		
Max. flow rate l/min (ANR) 40µm	2080	2100	2600
Ambient temperature	-10°C ~ 60°C		
Filter bowl capacity	105cc		
Lubricator bowl capacity	125cc		
Standard drain	Semi-auto drain (Drains below 0.5kgf/cm ²)		
Net weight	1380g (Al bowl 1980g)		
Option	Spacer block		

■ Dimensions

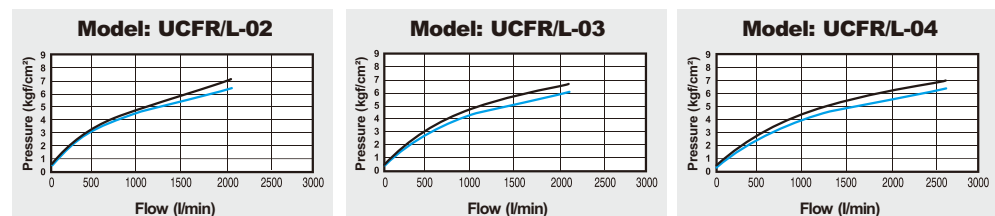
UCFR/L-02, 03, 04



UCFR/L-02, 03, 04SB (Spacer block)



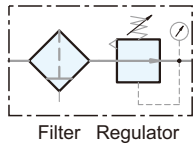
■ Flow chart



Note:

X axis: Flow (l/min)
Y axis: Pressure (kgf/cm²)
Blue line (P0) = Outlet pressure
Black line (P1) = Inlet pressure
P1-P0= Pressure range

Symbol



Features

- 1. Remove water and particle effectively.
- 2. 40µm and 5µm filter element are easily interchangeable and replaceable.
- 3. Accurate and easy pressure setting.



How to order

UCFR	–	02	N	C	G	H	A
Filter Regulator		Port size	Thread	Filtration	Gauge type	Drain	Bowl
		02 :1/4"	Blank :G	PE	Blank :Square	Blank :Semi-auto drain	Blank :Standard bowl
		03 :3/8"	N :NPT	Blank :5µm	G :Circle	H :Manual drain	A :Anti-acid & alkali bowl
		04 :1/2"	R :Rc	C :40µm		D :Auto drain	AL :Aluminum bowl
				Sintered brass			
				S :5µm			
				T :40µm			

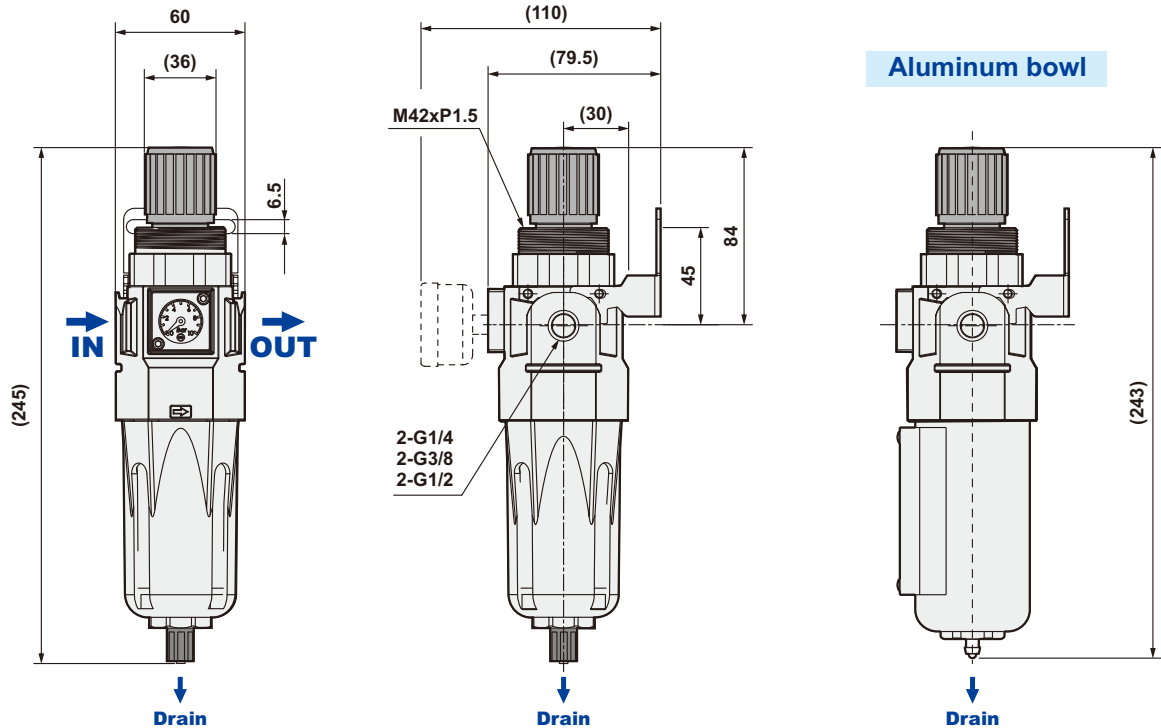
Please contact our sales for non-relieving type.
*For non-relieving type, the secondary pressure is not allowed to be exhausted when it is higher than setting pressure.

Specifications

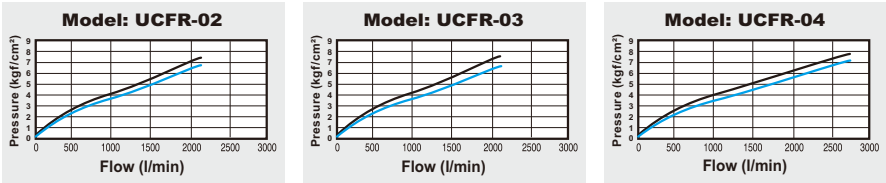
Model	UCFR-02	UCFR-03	UCFR-04
Port size	1/4"	3/8"	1/2"
Fluid	Compressed air		
Regulator construction	Piston		
Body material	Aluminum die-cast		
Bowl material	Polycarbonate (Standard), Anti-acid & alkali bowl (Option), Aluminum bowl (Option)		
Filtration	PE: 5µm (Standard),40µm (Option); Sintered brass(Option):5µm,40µm		
Operating pressure range	0.5 ~ 10 kgf/cm ²		
Max. inlet pressure	15 kgf/cm ²		
Max. flow rate l/min (ANR) 40µm	2080	2100	2600
Ambient temperature	-10°C ~ 60°C		
Filter bowl capacity	105cc		
Standard drain	Semi-auto drain (Drains below 0.5kgf/cm ²)		
Net weight	810g (Al bowl 1110g)		
Accessories	Mounting bracket set, Plug		
Option	Mounting nut		

Dimensions

UCFR-02, 03, 04



Flow chart



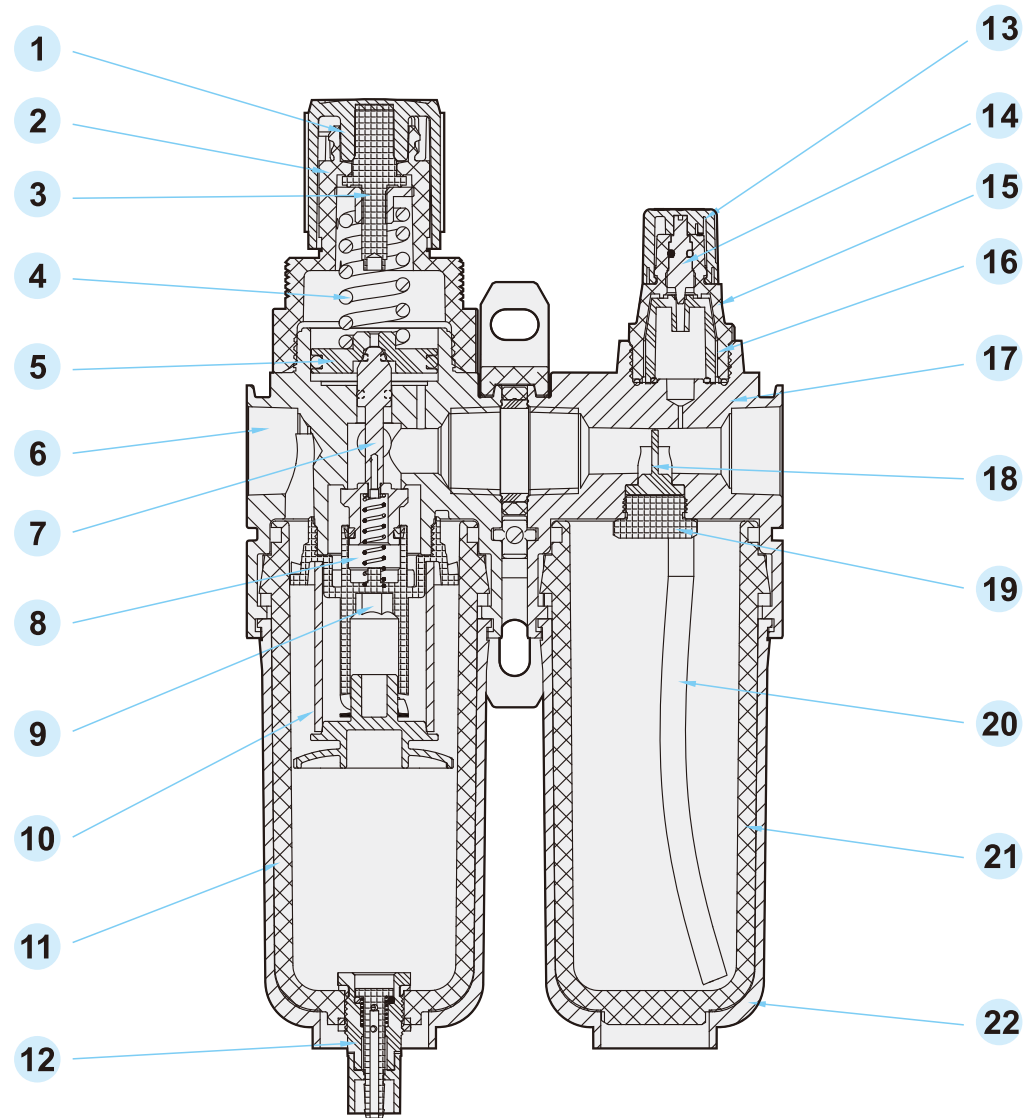
Note:
X axis: Flow (l/min)
Y axis: Pressure (kgf/cm²)
Blue line (P0)= Outlet pressure
Black line (P1)= Inlet pressure
P1-P0= Pressure range

UCSeries

F.R.L Combination

Filter Regulator + Lubricator (2 units style)

Construction(UCFR/L-02,03,04)

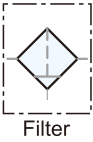


No.	Description	Material	No.	Description	Material
1	Pressure regulating knob	NY	12	Semi-auto drain	POM
2	Regulator base	NY+GF	13	Oil adjusting knob	POM
3	Pressure regulating screw	Fe+Ni	14	Oil adjusting screw	Cu+Ni
4	Pressure regulating spring	Spring steel + Ni	15	Oil viewer	GV4H
5	Piston	Cu+Ni	16	Oil dropping orifice	PC
6	Regulator body	ADC12	17	Lubricator body	ADC12
7	Regulating needle	Cu+NBR	18	Damper	PU
8	Spring	SUS 304	19	Plug	Cu
9	Filter element holder	NY	20	Oil pipe	PU
10	Filter element	PE	21	Lubricator bowl	PC
11	Filter bowl	PC	22	Bowl guard	NY

Memo...



Symbol



Features

- 1. Remove water and particle effectively.
- 2. 40µm and 5µm filter element are easily interchangeable and replaceable.



How to order

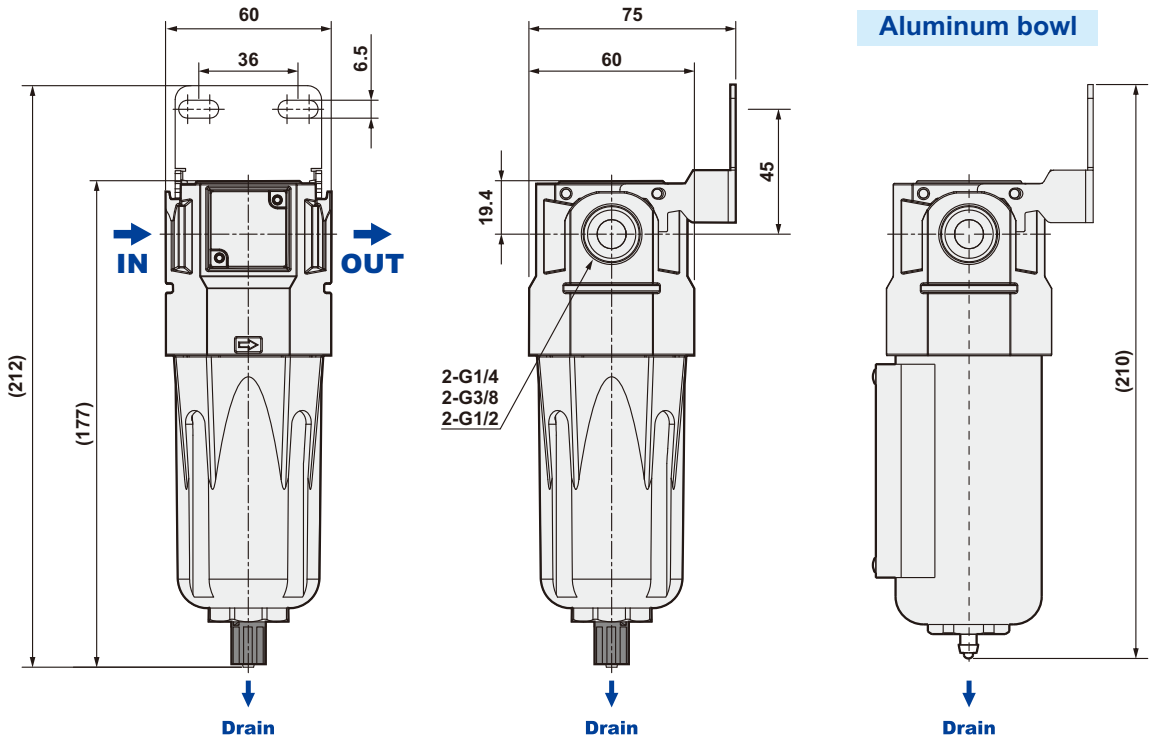
UCF – 02						
Filter	Port size	Thread	Filtration	Drain	Mounting	Bowl
	02 : 1/4"	Blank : G	PE	Blank : Semi-auto drain	Blank : W/O bracket	Blank : Standard bowl
	03 : 3/8"	N : NPT	Blank : 5µm	H : Manual drain	B : W/I bracket	A : Anti-acid & alkali bowl
	04 : 1/2"	R : Rc	C : 40µm	D : Auto drain		AL : Aluminum bowl
			Sintered brass S : 5µm T : 40µm			

Specifications

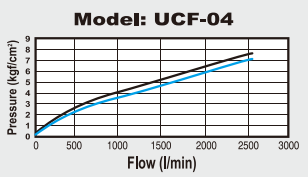
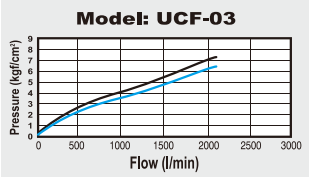
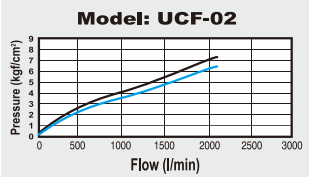
Model	UCF-02	UCF-03	UCF-04
Port size	1/4"	3/8"	1/2"
Fluid	Compressed air		
Body material	Aluminum die-cast		
Bowl material	Polycarbonate (Standard), Anti-acid & alkali bowl (Option), Aluminum bowl (Option)		
Filtration	PE: 5µm (Standard),40µm (Option); Sintered brass(Option):5µm,40µm		
Operating pressure range	0.5 ~ 9.9 kgf/cm²		
Proof pressure (Standard bowl)	15 kgf/cm²		
Max. flow rate l/min (ANR) 40µm	2440	2450	3030
Ambient temperature	-10℃ ~ 60℃		
Filter bowl capacity	105cc		
Standard drain	Semi-auto drain (Drains below 0.5kgf/cm²)		
Net weight	480g (Al bowl 780g)		
Option	Mounting bracket set		

Dimensions

UCF-02, 03, 04

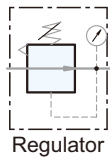


Flow chart



Note:
X axis: Flow (l/min)
Y axis: Pressure (kgf/cm²)
Blue line (P0) = Outlet pressure
Black line (P1) = Inlet pressure
P1-P0= Pressure range

Symbol



Features

- 1. Accurate and easy pressure setting.
- 2. Panel mounting is available.



How to order

UCR	–	02	N	G
Regulator		Port size	Thread	Gauge type
		02 : 1/4"	Blank : G	Blank : Square
		03 : 3/8"	N : NPT	G : Circle
		04 : 1/2"	R : Rc	

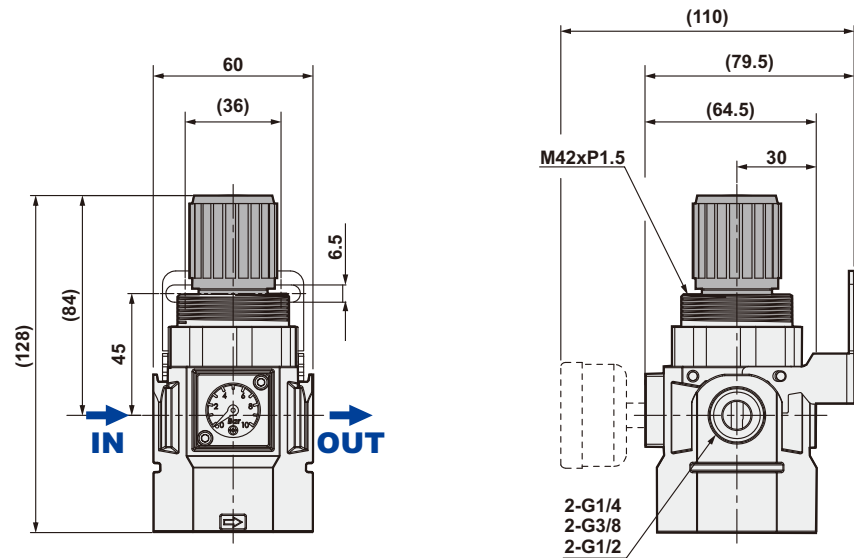
Please contact our sales for non-relieving type.
*For non-relieving type, the secondary pressure is not allowed to be exhausted when it is higher than setting pressure.

Specifications

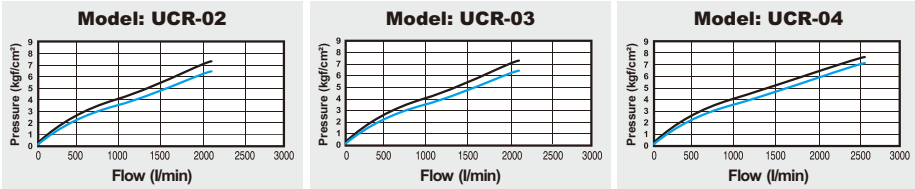
Model	UCR-02	UCR-03	UCR-04
Port size	1/4"	3/8"	1/2"
Fluid	Compressed air		
Regulator construction	Piston		
Body material	Aluminum die-cast		
Operating pressure range	0 ~ 9.9 kgf/cm ²		
Max. inlet pressure	15 kgf/cm ²		
Max. flow rate l/min (ANR) 40μm	2100	2130	2750
Ambient temperature	-10°C ~ 60°C		
Net weight	560g	550g	540g
Accessories	Mounting bracket set, Plug		
Option	Panel nut		

Dimensions

UCR-02, 03, 04

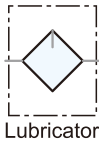


Flow chart



Note:
X axis: Flow (l/min)
Y axis: Pressure (kgf/cm²)
Blue line (P0) = Outlet pressure
Black line (P1) = Inlet pressure
P1-P0 = Pressure range

■ Symbol



■ Features

- 1. Lubricator oil can be replenished without stopping air supply.
- 2. Oil spray in mist ensures good lubrication for machines.



*Lubricator oil (Recommended): ISO-VG32

■ How to order

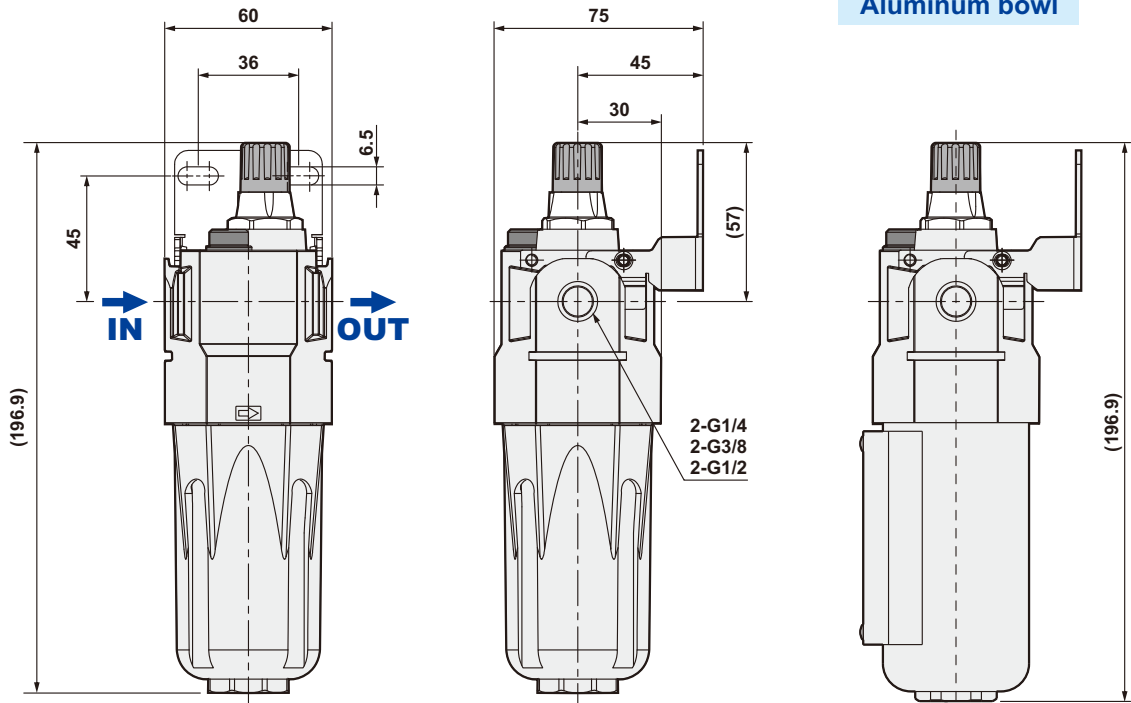
UCL	–	02	N	B	A
Lubricator		Port size	Thread	Mounting	Bowl
		02 : 1/4"	Blank : G	Blank : W/O bracket	Blank : Standard bowl
		03 : 3/8"	N : NPT	B : W/I bracket	A : Anti-acid & alkali bowl
		04 : 1/2"	R : Rc		AL : Aluminum bowl

■ Specifications

Model	UCL-02	UCL-03	UCL-04
Port size	1/4"	3/8"	1/2"
Fluid	Compressed air		
Body material	Aluminum die-cast		
Bowl material	Polycarbonate (Standard), Anti-acid & alkali bowl (Option), Aluminum bowl (Option)		
Operating pressure range	0.5 ~ 9.9 kgf/cm ²		
Proof pressure (Standard bowl)	15 kgf/cm ²		
Max. flow rate l/min (ANR)	2080	2100	2600
Ambient temperature	-10℃ ~ 60℃		
Lubricator bowl capacity	125cc		
Net weight	550g (Al bowl 850g)		
Option	Mounting bracket set		

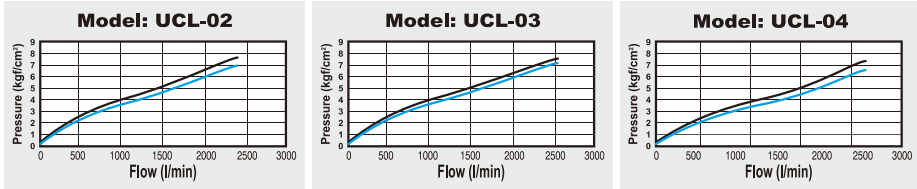
■ Dimensions

UCL-02, 03, 04



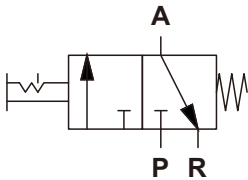
Aluminum bowl

■ Flow chart



Note:
X axis: Flow (l/min)
Y axis: Pressure (kgf/cm²)
Blue line (P0) = Outlet pressure
Black line (P1) = Inlet pressure
P1-P0= Pressure range

Symbol



Features

- 1.Modular design for connection with UC series FRL.
- 2.Working state of the valve can be verified by visible mark(EXH./SUP.).
- 3.Identical with OSHA.

OSHA regulation about installation standard for users:
 When the worker repair and maintain machinery,shut-off valve can exhaust residual pressure while air supply is shut down.In such repairing or maintaining works,the shut-off valve operated by other careless people may lead to downstream pipe pressurized and make cylinder or other machines working accidentally, it will cause the worker injured. Therefore, if shut-off valve is used for repairing or maintaining works,it should be locked to prevent the worker injured from accidental operation by other people.

How to order

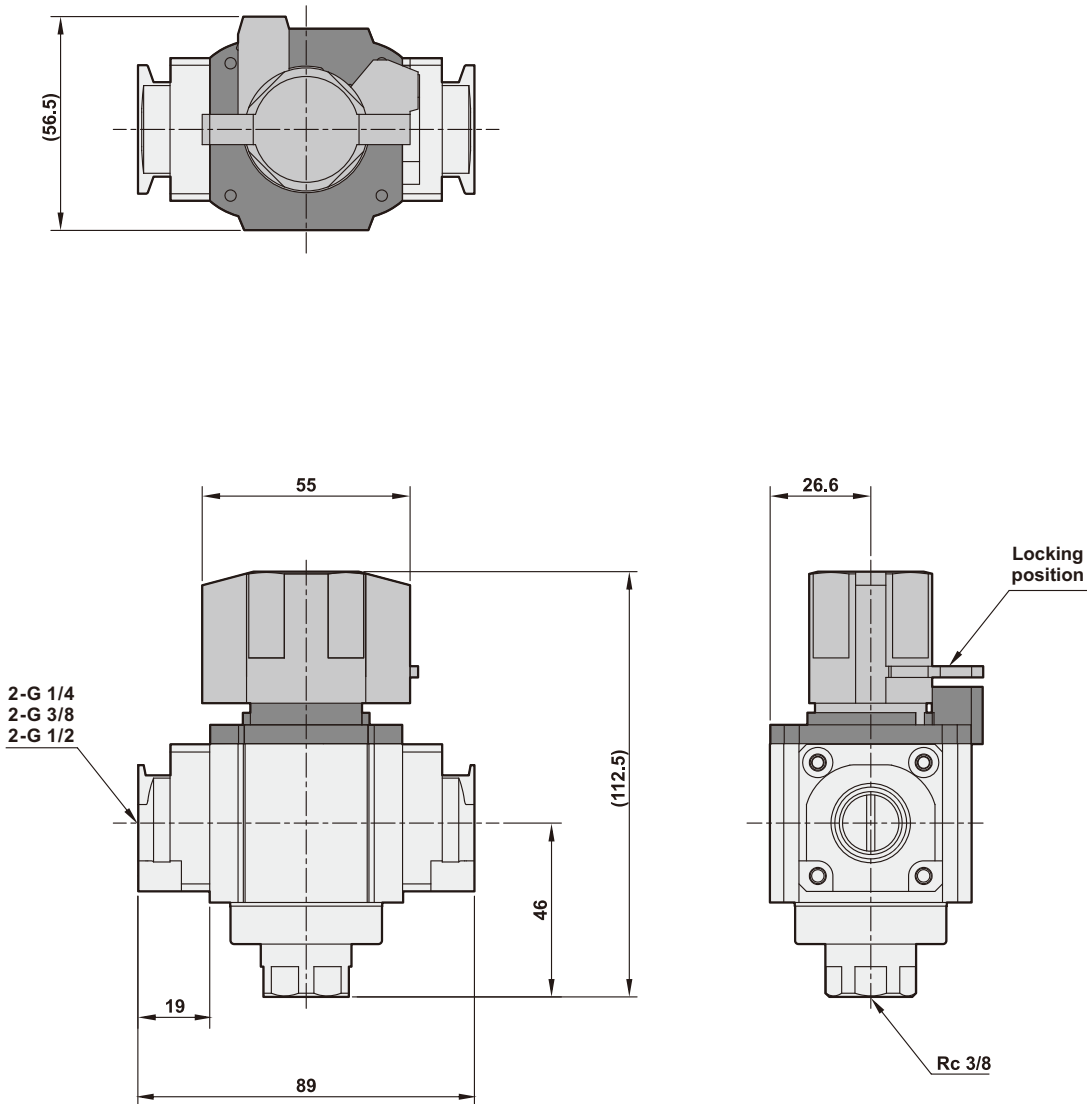
VHT – 02	N
Shut-off Valve	Port size
	Thread
	02 :1/4"
	03 :3/8"
	04 :1/2"
	Blank :G
	N :NPT

Specifications

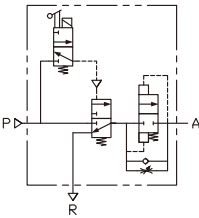
Model	VHT-02	VHT-03	VHT-04
Port size	1/4"	3/8"	1/2"
Fluid	Compressed air		
Acting	Manual		
Operating pressure range	0 ~ 9 kgf/cm ²		
Proof pressure	15 kgf/cm ²		
Ambient temperature	-20°C ~ 70°C		
Manual angle	90°		
Exhaust port size	Rc3/8		

Dimensions

VHT-02, 03, 04



■ Symbol



■ Features

The function of soft start valve is to build up pneumatic system in safety and protection. Please input air supply to P port on soft start valve, when the coil on soft start valve is energized, soft start valve is open and a little air controlled by internal throttle valve output from A port to make air pressure increase slowly in pneumatic system. While output pressure is equal to 50% of input pressure, soft start valve is fully open in highest flow rate. When the coil on soft start valve is de-energized, P port is closed and the air return to R port through internal check valve for exhaust, the pressure in the system is down to zero to protect whole system in safety.

■ How to order

VSS	—	02	N	—	S	2	L	F
Soft Start Valve		Port size	Thread	Solenoid		Voltage	Led	Coil type
		02 : 1/4"	Blank : G	S : Single solenoid		1 : 110VAC	Blank : W/O LED	Blank : DIN
		03 : 3/8"	N : NPT			2 : 220VAC	L : W/I LED	F : Lead wire
		04 : 1/2"				6 : 24VAC		E1 : EX-proof 22mm width
						7 : 12VDC		E3 : EX-proof CSA standard
						9 : 24VDC		

■ Specifications

Model	VSS-02	VSS-03	VSS-04
Port size	1/4"	3/8"	1/2"
Fluid	Compressed air		
Acting	Manual		
Operating pressure range	0.25 ~ 9 kgf/cm²		
Proof pressure	15 kgf/cm²		
Exhaust port size	Rc3/8		
Ambient temperature	-10°C ~ 60°C		
Duty cycle	100% ED		
Coil type	DIN (Standard)		
Protection class	IP65 (DIN 40 050)		
Insulation class	F		
Voltage tolerance	±10%		
Standard voltage	220VAC, 110VAC, 24VDC(The other voltage is optional)		

■ Dimensions

VSS-02, 03, 04

