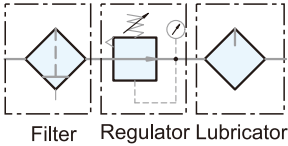


Symbol



Features

1. For high pressure use, corrosion and chemical resistance.
2. Good performance for outdoor facility.
3. Suitable for semi-conductor industry.
4. The product effectively removes water and particle.
5. Accurate and sensitive pressure setting.
6. Lubricator oil can be replenished without stopping air supply.
7. Oil spray in mist ensures good lubrication for machines.
8. CE and EX-proof certified.



*Lubricator oil (Recommended): ISO-VG32

How to order

USFRL	B	—	06	N	C	H	W
Stainless Steel F.R.L Combination	Pressure		Port size	Thread	Filtration	Drain	Bowl viewer
	Blank:0.5~28kgf/cm ² B:0.5~12kgf/cm ²		06 :3/4" 08 :1"	Blank :G N :NPT R :Rc	Blank :5μm C :40μm	Blank :Semi-auto drain H :Manual drain D :Auto drain (Working pressure:0.5 ~ 9.9 kgf/cm ²)	Blank :W/O viewer W :Viewer (See *Remark below)

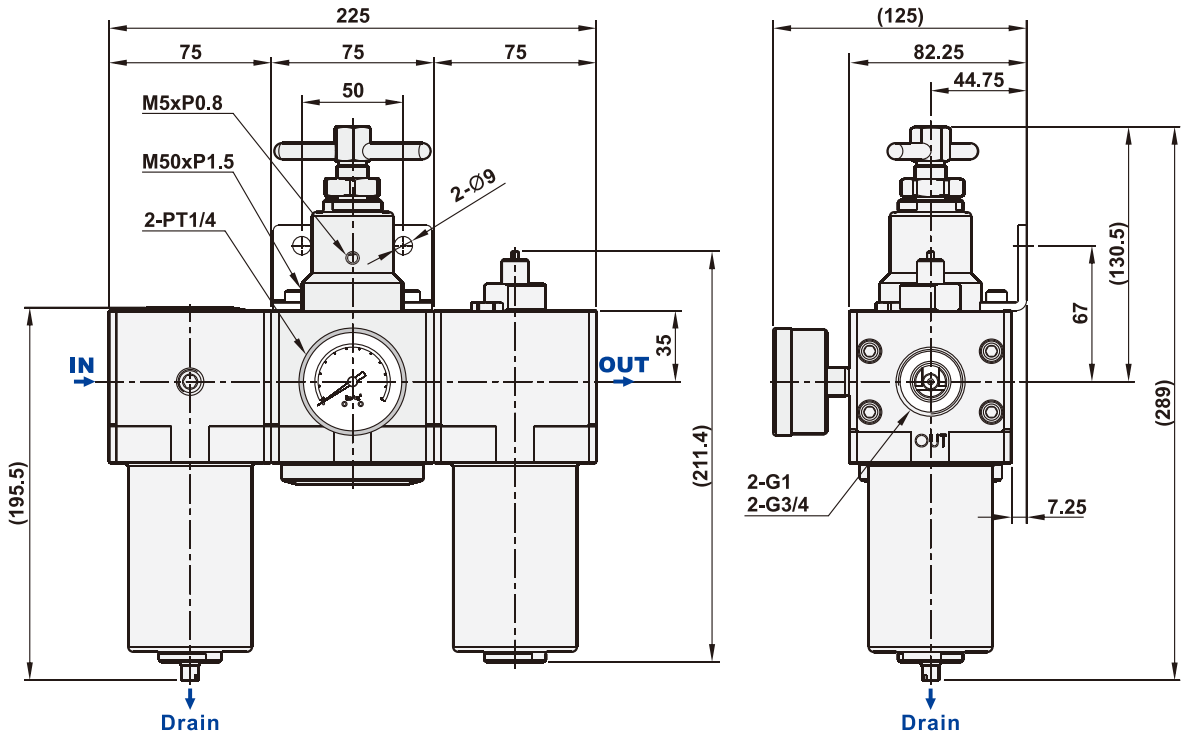
Please contact our sales for non-relieving type.
*For non-relieving type, the secondary pressure is not allowed to be exhausted when it is higher than setting pressure.
*Remark: Only for USFRLB (0.5 ~ 12 kgf/cm²).
*Spring: USFRLB = SUS303
USFRL = Alloy steel

Specifications

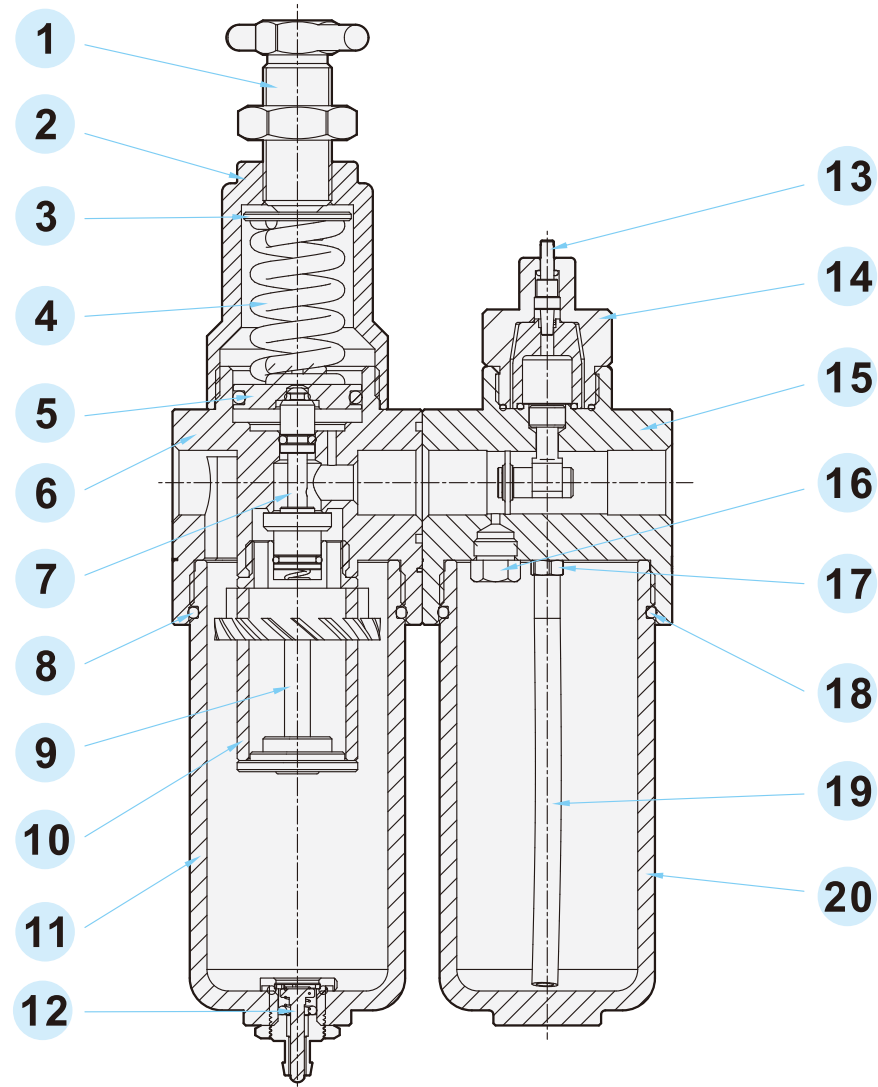
Model	USFRL-06	USFRL-08
Port size	3/4"	1"
Fluid	Compressed air	
Regulator construction	Piston	
Body material	Stainless steel SUS316	
Bowl material	Stainless steel SUS316	
Pressure gauge material	Case: Stainless steel SUS304, Thread: Stainless steel SUS316	
Filtration	5μm(Standard)	
Element material	Stainless steel SUS316	
Operating pressure range	USFRLB: 0.5 ~ 12 kgf/cm ² , USFRL: 0.5 ~ 28 kgf/cm ²	
Max. inlet pressure	60 kgf/cm ² (Bowl viewer: 15 kgf/cm ²)	
Max. flow rate I/min (ANR) 40μm	B7600/15200	B8000/15600
Ambient temperature	-10°C ~ 70°C	
Filter bowl capacity	200cc	
Lubricator bowl capacity	220cc	
Proof pressure	80 kgf/cm ² (Bowl viewer: 40 kgf/cm ²)	
Standard drain	Semi-auto drain (Drains below 0.5kgf/cm ²)	
Net weight	10340g	
Accessories	Pressure gauge (0~20kg), Plug, Mounting bracket set	
Option	Pressure gauge (0~10kg), Pressure gauge (0~30kg)	

Dimensions

USFRL-06, 08



■ Construction (USFR/L-02,03,04)



NO.	Description	Material
1	Pressure regulating screw	SUS316
2	Regulator base	SUS316
3	Disc gasket	SUS303
4	Spring	USFR/LB:SUS303 USFR/L:Alloy steel
5	Piston	SUS303
6	Regulator body	SUS316
7	Pressure regulating needle	SUS303
8	O-ring	VITON
9	Filter element holder	SUS303
10	Filter element	SUS316

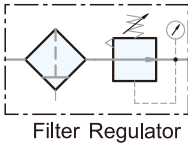
NO.	Description	Material
11	Filter bowl	SUS316
12	Drain	SUS303
13	Oil adjusting screw	SUS316
14	Screw cover	SUS316
15	Lubricator body	SUS316
16	Plug	SUS316
17	Oil pipe fitting	SUS316
18	O-ring	VITON
19	Oil pipe	PU
20	Lubricator bowl	SUS316

Memo...



Stainless Steel SUS316 Filter Regulator

Symbol



Features

1. For high pressure use, corrosion and chemical resistance.
2. Good performance for outdoor facility.
3. Suitable for semi-conductor industry.
4. The product effectively removes water and particle.
5. Accurate and sensitive pressure setting.
6. CE and EX-proof certified.

How to order

USFR	B	—	02	N	C	H	W
Stainless Steel Filter Regulator	Pressure		Port size	Thread	Filtration	Drain	Bowl viewer
	Blank: 0.5~30kgf/cm ² (for 1/4", 3/8", 1/2")		02 : 1/4" 03 : 3/8"	Blank : G N : NPT R : Rc	Blank : 5μm C : 40μm	Blank : Semi-auto drain H : Manual drain D : Auto drain (Working pressure: 0.5 ~ 9.9 kgf/cm ²)	Blank : W/O viewer W : Viewer (for 3/4", 1") (See *Remark below)
	0.5~28kgf/cm ² (for 3/4", 1")		04 : 1/2" 06 : 3/4" 08 : 1"				
	B: 0.5~12kgf/cm ²						

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.

*Remark: Only for USFRB (0.5~12 kgf/cm²).

*Spring: USFRB = SUS303
USFR = Alloy steel

Specifications

Model	USFR-02	USFR-03	USFR-04	USFR-06	USFR-08
Port size	1/4"	3/8"	1/2"	3/4"	1"
Fluid	Compressed air				
Regulator construction	Piston				
Body material	Stainless steel SUS316				
Bowl material	Stainless steel SUS316				
Pressure gauge material	Case: Stainless steel SUS304, Thread: Stainless steel SUS316				
Filtration	5μm(Standard)				
Element material	Stainless steel SUS316				
Operating pressure range	USFRB:0.5 ~ 12 kgf/cm ² USFR:0.5~ 30 kgf/cm ²			USFRB:0.5 ~ 12 kgf/cm ² USFR:0.5 ~ 28 kgf/cm ²	
Max. inlet pressure	60 kgf/cm ² (Bowl viewer: 15 kgf/cm ²)				
Max. flow rate l/min (ANR) 40μm	2200	2500	3800	B8500/17000	B8900/21000
Ambient temperature	-10℃ ~ 70℃				
Filter bowl capacity	110cc			200cc	
Proof pressure	80 kgf/cm ² (Bowl viewer: 40 kgf/cm ²)				
Standard drain	Semi-auto drain (Drains below 0.5kgf/cm ²)				
Net weight	2000g			4580g	
Accessories	Pressure gauge (0~20kg), Plug, Mounting bracket set				
Option	Pressure gauge (0~10kg), Pressure gauge (0~30kg)				

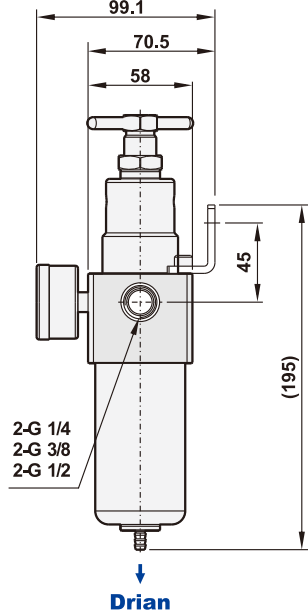
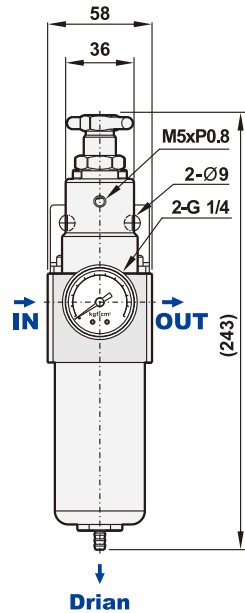


II 2G Ex h IIC T4 Gb
II 2D Ex h IIIC T135°C Db
-10 °C ≤ Ta ≤ 70 °C

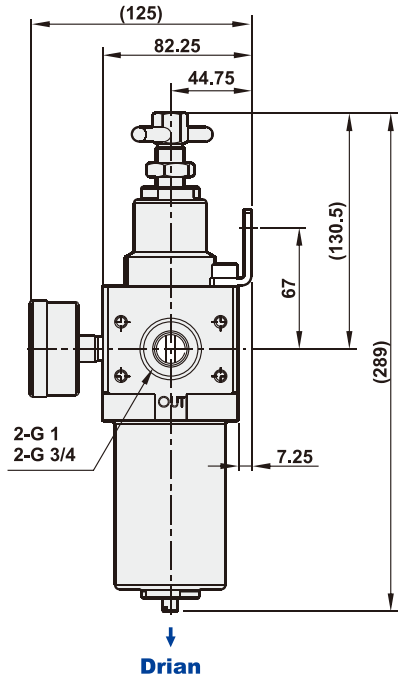
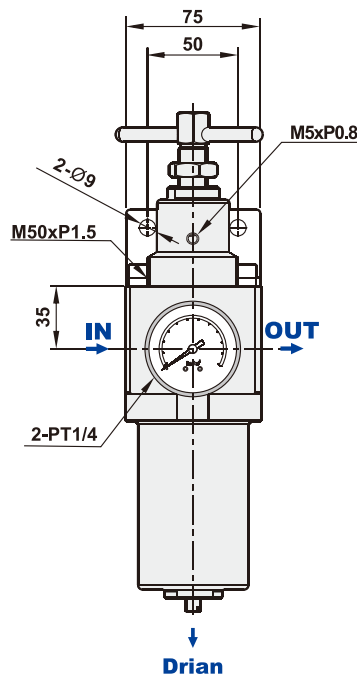


Dimensions

USFR-02, 03, 04



USFR-06, 08



Symbol



Features

- 1. For high pressure use, corrosion and chemical resistance.
- 2. Good performance in chemically working environments and outdoor facility.
- 3. Suitable for semi-conductor industry.
- 4. The product effectively removes water and particle.
- 5. Strict quality control.
- 6. CE and EX-proof certified.

How to order

USF	B	-	02	N	C	H	W
Stainless Steel Filter	Pressure		Port size	Thread	Filtration	Drain	Bowl viewer
	Blank:0.5~60kgf/cm² B:0.5~12kgf/cm²		02 :1/4" 03 :3/8" 04 :1/2" 06 :3/4" 08 :1"	Blank :G N :NPT R :Rc	Blank :5µm C :40µm	Blank :Semi-auto drain H :Manual drain D :Auto drain (Working pressure:0.5 ~ 9.9 kgf/cm²)	Blank :W/O viewer W :Viewer (for 3/4", 1") (See "Remark below")

*Remark: Only for USFB (0.5 ~ 12 kgf/cm²)

Specifications

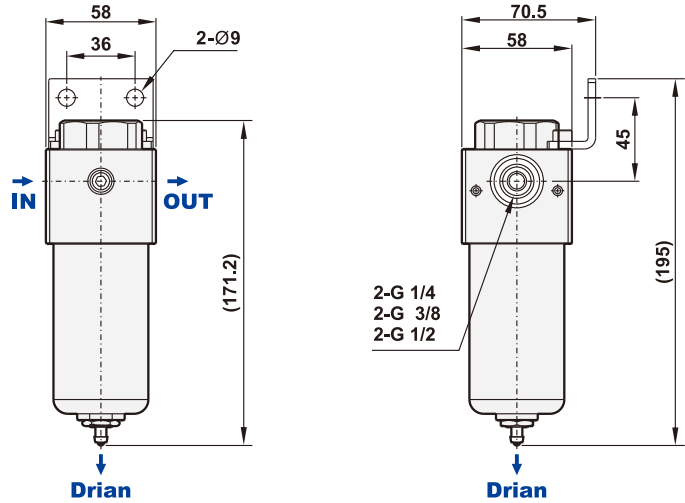
Model	USF-02	USF-03	USF-04	USF-06	USF-08
Port size	1/4"	3/8"	1/2"	3/4"	1"
Fluid	Compressed air				
Body material	Stainless steel SUS316				
Bowl material	Stainless steel SUS316				
Filter element material	Stainless steel SUS316				
Filtration	5μm(Standard), 40μm(Option)				
Operating pressure range	USF: 0.5 ~ 60 kgf/cm², USFB: 0.5 ~ 12 kgf/cm²				
Max. inlet pressure	60 kgf/cm² (Bowl viewer: 15 kgf/cm²)				
Max. flow rate l/min (ANR) 40μm	2440	2450	3030	B9600/19200	
Ambient temperature	-10°C ~ 70°C				
Filter bowl capacity	110cc			200cc	
Proof pressure	80 kgf/cm² (Bowl viewer: 40 kgf/cm²)				
Standard drain	Semi-auto drain (Drains below 0.5kgf/cm²)				
Net weight	1650 g			3950 g	
Accessories	Mounting bracket set, Plug				

CE II 2G Ex h IIC T4 Gb
II 2D Ex h IIC T135°C Db
-10 °C ≤ Ta ≤ 70 °C

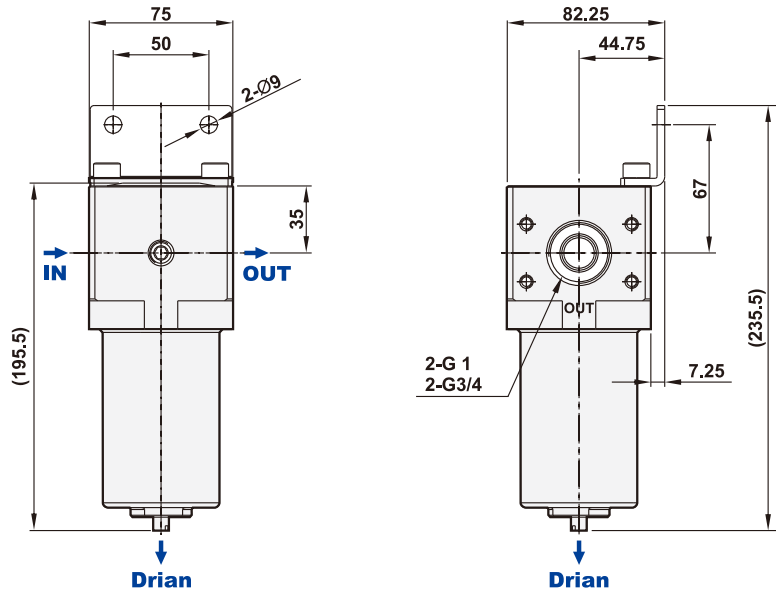


Dimensions

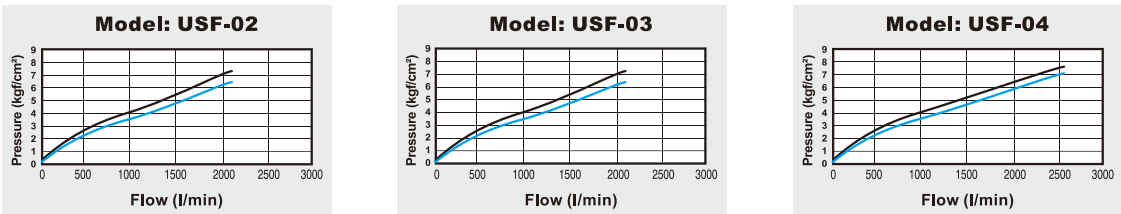
USF-02, 03, 04



USF-06, 08

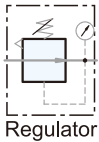


Flow chart



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. For high pressure use, corrosion and chemical resistance.
2. Good performance for outdoor facility.
3. Suitable for semi-conductor industry.
4. Accurate and sensitive pressure setting.
5. Strict quality control.
6. CE and EX-proof certified.

How to order

USR	B	—	02	N
Stainless Steel Regulator	Pressure		Port size	Thread
	Blank:0~30kgf/cm ² (for 1/4", 3/8", 1/2") 0~28kgf/cm ² (for 3/4", 1") B:0~12kgf/cm ²		02 :1/4" 03 :3/8" 04 :1/2" 06 :3/4" 08 :1"	Blank :G N :NPT 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.

*Spring: USRB = SUS303
USR=Alloy steel

Specifications

Model	USR-02	USR-03	USR-04	USR-06	USR-08
Port size	1/4"	3/8"	1/2"	3/4"	1"
Fluid	Compressed air				
Regulator construction	Piston				
Body material	Stainless steel SUS316				
Pressure gauge material	Case: Stainless steel SUS304, Thread: Stainless steel SUS316				
Operating pressure range	USRB: 0 ~ 12 kgf/cm ² USR: 0 ~ 30 kgf/cm ²			USRB: 0 ~ 12 kgf/cm ² USR: 0 ~ 28 kgf/cm ²	
Max. inlet pressure	60 kgf/cm ²				
Max. flow rate l/min (ANR)	1950	2250	2520	B9000/18000	B9400/22000
Ambient temperature	-10°C ~ 70°C				
Proof pressure	80 kgf/cm ²				
Net weight	1400g			3400g	
Accessories	Pressure gauge (0~20kg), Plug, Mounting bracket set				
Option	Pressure gauge (0~10kg), Pressure gauge (0~30kg)				

CE

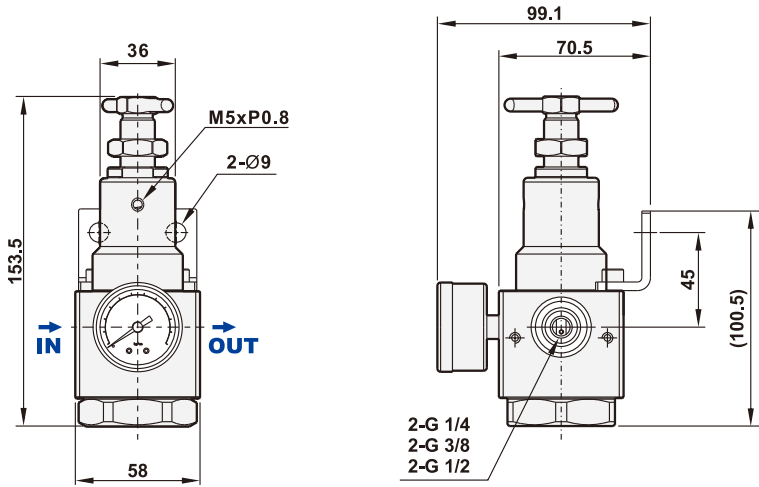
Ex

II 2G Ex h IIC T4 Gb
II 2D Ex h IIC T135°C Db
-10 °C ≤ Ta ≤ 70 °C

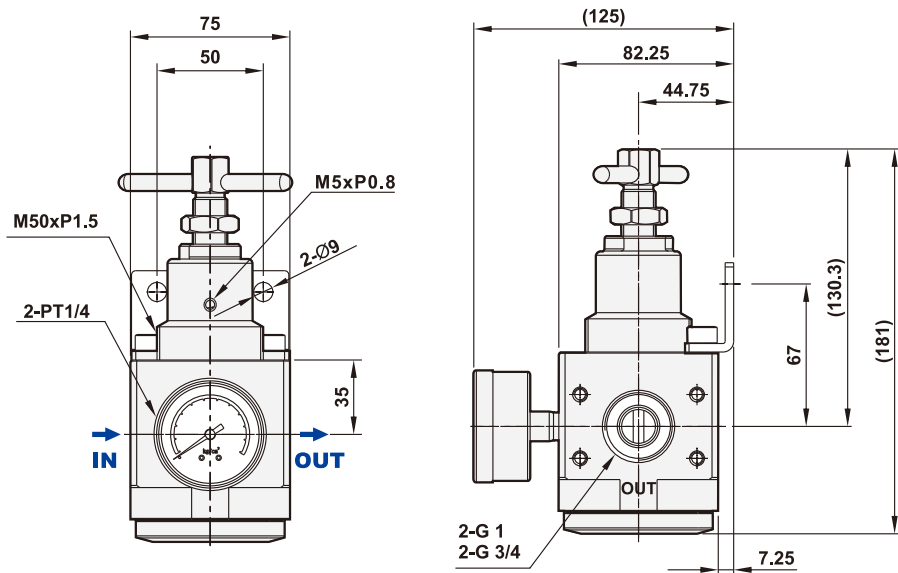


Dimensions

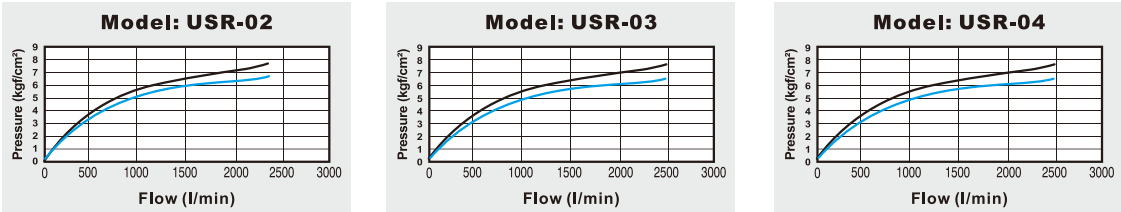
USR-02, 03, 04



USR-06, 08

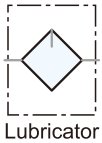


Flow chart



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. For high pressure use, corrosion and chemical resistance.
- 2. Good performance in chemically working environments and outdoor facility.
- 3. Lubricator oil can be replenished without stopping air supply.
- 4. Oil spray in mist ensures good lubrication for machines.
- 5. CE and EX-proof certified.

How to order

USL	B	—	02	N	W
Stainless Steel Lubricator	Pressure		Port size	Thread	Bowl viewer
	Blank :0~60kgf/cm² B:0~12kgf/cm²		02 :1/4" 03 :3/8" 04 :1/2" 06 :3/4" 08 :1"	Blank :G N :NPT R :Rc	Blank :W/O viewer W :Viewer (for 3/4", 1") (See *Remark below)

*Remark: Only for USLB (0 ~ 12 kgf/cm²)

Specifications

Model	USL-02	USL-03	USL-04	USL-06	USL-08
Port size	1/4"	3/8"	1/2"	3/4"	1"
Fluid	Compressed air				
Body material	Stainless steel SUS316				
Bowl material	Stainless steel SUS316				
Operating pressure range	USL: 0 ~ 60 kgf/cm², USLB: 0 ~ 12 kgf/cm²				
Lubricator bowl capacity	130cc			220cc	
Max. inlet pressure	60 kgf/cm² (Bowl viewer: 15 kgf/cm²)				
Max. flow rate I/min (ANR)	2500	2525	4100	B13200/26400	
Ambient temperature	-10°C ~ 70°C				
Proof pressure	80 kgf/cm² (Bowl viewer: 40 kgf/cm²)				
Net weight	1750g			3360g	
Accessories	Mounting bracket set				

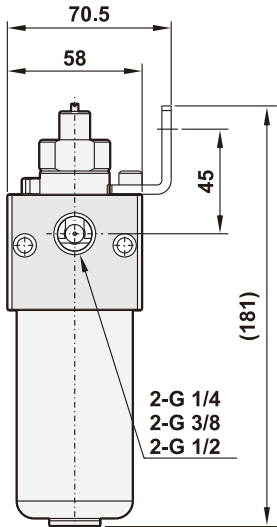
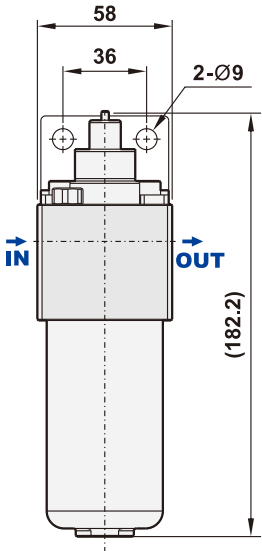
II 2G Ex h IIC T4 Gb
II 2D Ex h IIIC T135°C Db
-10 °C ≤ Ta ≤ 70 °C



*Lubricator oil (Recommended): ISO-VG32

Dimensions

USL-02, 03, 04



USL-06, 08

