

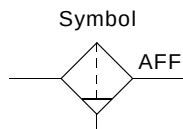
Main Line Filter

Series AFF

Series AFF is mounted to main piping to remove impurities like oil, water and foreign matter in compressed air. It improves the function of downward dryer, extends the life of precision filter, and prevents trouble with the equipment.

How to Order

AFF 8B — 03 B



Accessory (Option)

Symbol	Description
Nil	—
B	Bracket
C	N.C. auto-drain C
D	N.O. auto-drain D

Port size

01	1/8B	04	1/2B
02	1/4B	06	3/4B
03	3/8B	10	1B

Thread

Nil	Rc(PT)
F	G
N	NPT

Body size

8B	3/8 (Standard)
22B	3/4 (Standard)

Specifications

Fluid	Air
Max. operating pressure	1.0 Mpa
Min. operating pressure *	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5~60℃
Filtration degree	3μm (95% particle size collection)
Element life	2 years (1 year for A type) or when pressure drop reaches 0.1 Mpa

* 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type) in the case of types with auto-drain.

Model

Model	AFF8B	AFF22B
Rated flow (ℓ/min (ANR)) ^{Note)}	1500	3500
Port size (Nominal size B)	3/8, 1/2	3/4, 1
Weight (kg)	0.9	2.1
Bracket assembly (With cap bolt and spring washer) (Option)	BM53	BM55

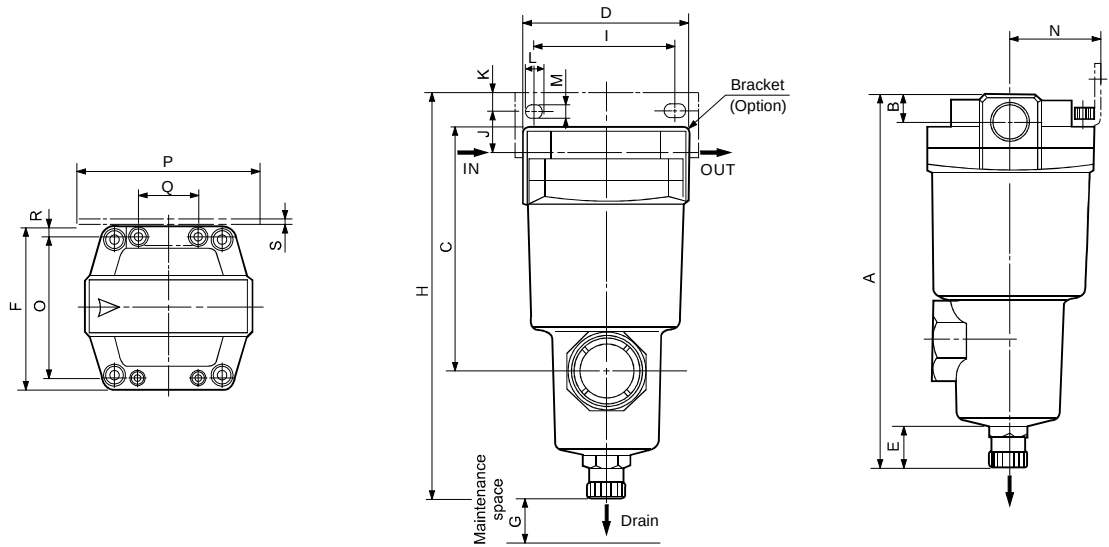
Note) Max. flow is at 0.7 MPa. Max. flow varies depending on operating pressure.

Main Line Filter Series AFF



Dimensions

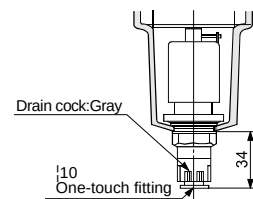
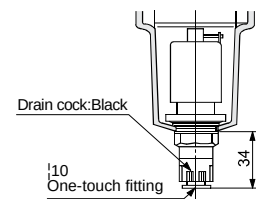
AFF8B, AFF22B



Accessory

D: With auto-drain (N.O.)

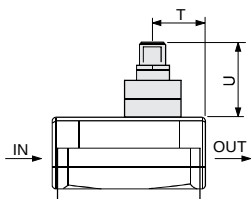
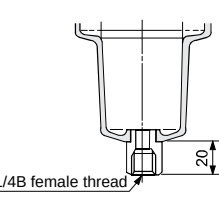
C: With auto-drain (N.C.)



Option

J: With drain guide

T: With element service indicator



Model	Port size (Nominal size B)	A	B	C	D	E	F	G	Dimensions with mounting bracket											Element service indicator		
									H	I	J	K	L	M	N	O	P	Q	R	S	T	U
AFF8B	3/8,1/2	204	16	145	90	20	90	10	218	80	22	8	14	7	50	80	100	34	5	2.3	32	37
AFF22B	3/4,1	259	22	200	122	20	122	10	277	100	30	10	16	9	65	102	130	60	10	4.5	39	37

AFF
AM
AMD
AD1, AD2
AC
AF
AR
AL
AW
UFRL
UFR/L
UF
UR
UL
UFR
FFL-700A
FFL-600A
F-200A
NR200
R200
L-200A
FR500A
YAC, YBC
YAC, YBC
YAF, YBF
YAR, YBR
YAF, YBR
YAL, YBL
SFC
SFL, SFR

Mist Separator Series AM

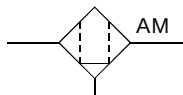
Series AM can separate and remove oil mist in compressed air which is difficult to remove by ordinary air filters and remove solid particles such as rust or carbon of more than 0.3µm. It is the most suitable for air sources that drive pilot, metal seal solenoid valves.

How to Order

AM 350 — 03 B



Symbol



Accessory (Option)

Symbol	Description
Nil	—
B	Bracket
C	N.C. auto-drain
D	N.O. auto-drain

Port size

01	1/8B	04	1/2B
02	1/4B	06	3/4B
03	3/8B	10	1B

Thread

Nil	Rc
F	G
N	NPT

Body size

350	3/8 (Standard)
550	3/4 (Standard)

Specifications

Fluid	Air
Max. operating pressure	1.0 MPa
Min. operating pressure ⁽¹⁾	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5~60°C
Filtration	3µm (95% particle size collection)
Oil mist removal rate	Max. 1.0 mg/m ³ (ANR) (0.8ppm) ⁽²⁾
Element life	2 years or when pressure drop reaches 0.1 Mpa

Note(1): 0.1 MPa (N.O.type) or 0.15 MPa (N.C.type) in the case of types with auto-drain.

Note(2): At oil mist density of 30 mg/m³ (ANR) is blown out by compressor

Model

Model	AM350	AM550
Rated flow (ℓ/min (ANR)) ^{Note)}	1500	3500
Port size (Nominal size B)	3/8, 1/2	3/4, 1
Weight (kg)	0.9	2.1
Bracket assembly (With cap bolt and spring washer) Option	BM53	BM55

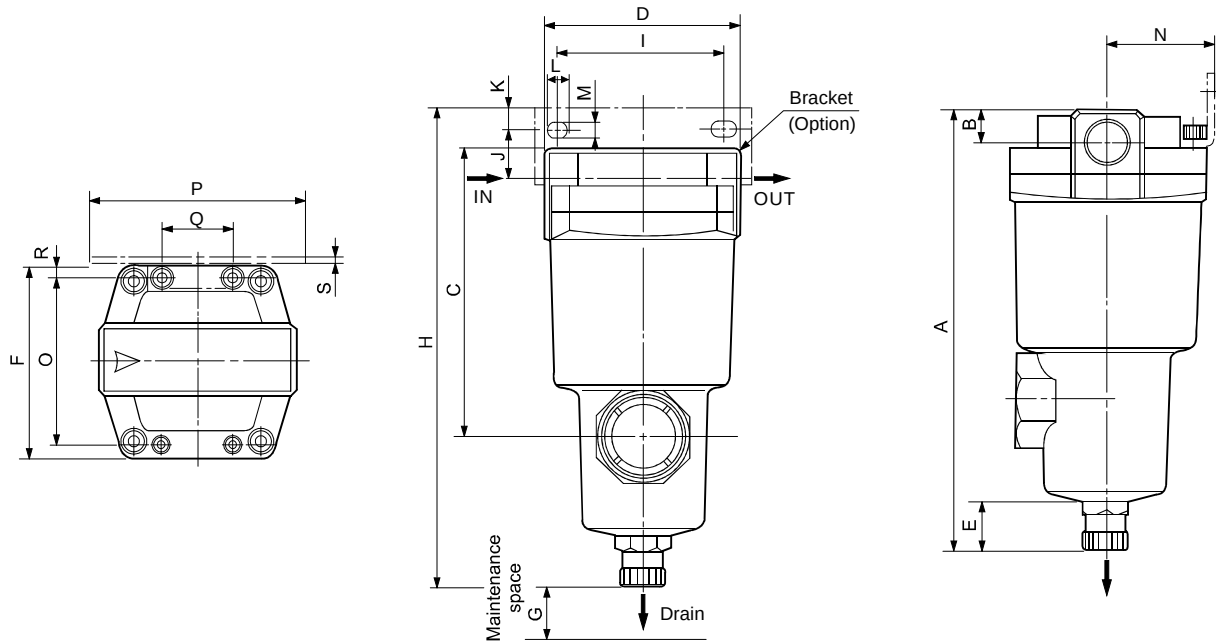
Note) Max. flow is at 0.7 MPa. Max. flow varies depending on operating pressure.

Mist Separator Series AM



Dimensions

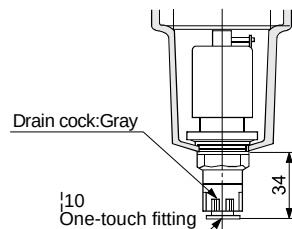
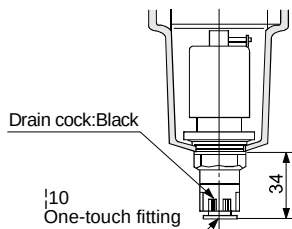
AM350, AM550



Accessory

D: With auto-drain (N.O.)

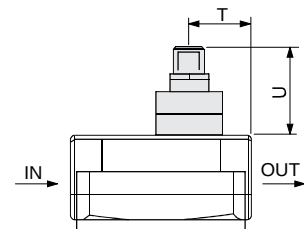
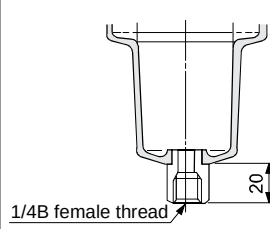
C: With auto-drain (N.C.)



Option

J: With drain guide

T: With element service indicator



Model	Port size (Nominal size B)	A	B	C	D	E	F	G	Dimensions with mounting bracket											Element service indicator		
									H	I	J	K	L	M	N	O	P	Q	R	S	T	U
AM350	3/8,1/2	204	16	145	90	20	90	10	218	80	22	8	14	7	50	80	100	34	5	2.3	32	37
AM550	3/4,1	259	22	200	122	20	122	10	277	100	30	10	16	9	65	102	130	60	10	4.5	39	37

AFF
AM
AMD
AD1, AD2
AC
AF
AR
AL
AW
UFRL
UFR/L
UF
UR
UL
UFR
FL-700A
FL-600A
F-200A
NR200
R200
L-200A
FR500A
YAC, YBC
YAC, YBC
YAF, YEF
YAR, YER
YAR, YBR
YAL, YEL
SFC
SFL, SFR

Micro Mist Separator

Series AMD

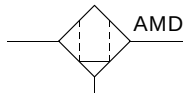
Series AMD can separate and remove aerosol state oil mist in compressed air and remove carbon or dust of more than 0.01µm. It should be used as prefilter of compressed air for precision instruments or clean room required for higher clean air.

How to Order

AMD 350 — 03 B



Symbol



Accessory (Option)

Symbol	Description
Nil	—
B	Bracket
C	N.C. auto-drain
D	N.O. auto-drain

Port size

01	1/8B	04	1/2B
02	1/4B	06	3/4B
03	3/8B	10	1B

Thread

Nil	Rc
F	G
N	NPT

Body size

350	3/8 (Standard)
550	3/4 (Standard)

Specifications

Fluid	Air
Max. operating pressure	1.0 MPa
Min. operating pressure ⁽¹⁾	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5~60°C
Filtration	0.01µm (95% particle size collection)
Oil mist removal rate	Max. 1.0 mg/m ³ (ANR) ⁽²⁾ (At saturation of element oil, less than 0.01 mg/m ³ (ANR); 0.008ppm)
Element life	2 years or when pressure drop reaches 0.1 MPa

Note(1): 0.1 MPa (N.O.type) or 0.15 MPa (N.C.type) in the case of types with auto-drain.

Note(2): At oil mist density of 30 mg/m³ ANR is blown out by compressor.

Model

Model	AMD350	AMD550
Rated flow (ℓ/min (ANR)) ^{Note)}	1500	3500
Port size (Nominal size B)	3/8, 1/2	3/4, 1
Weight (kg)	0.9	2.1
Bracket assembly (With cap bolt and spring washer) (Option)	BM53	BM55

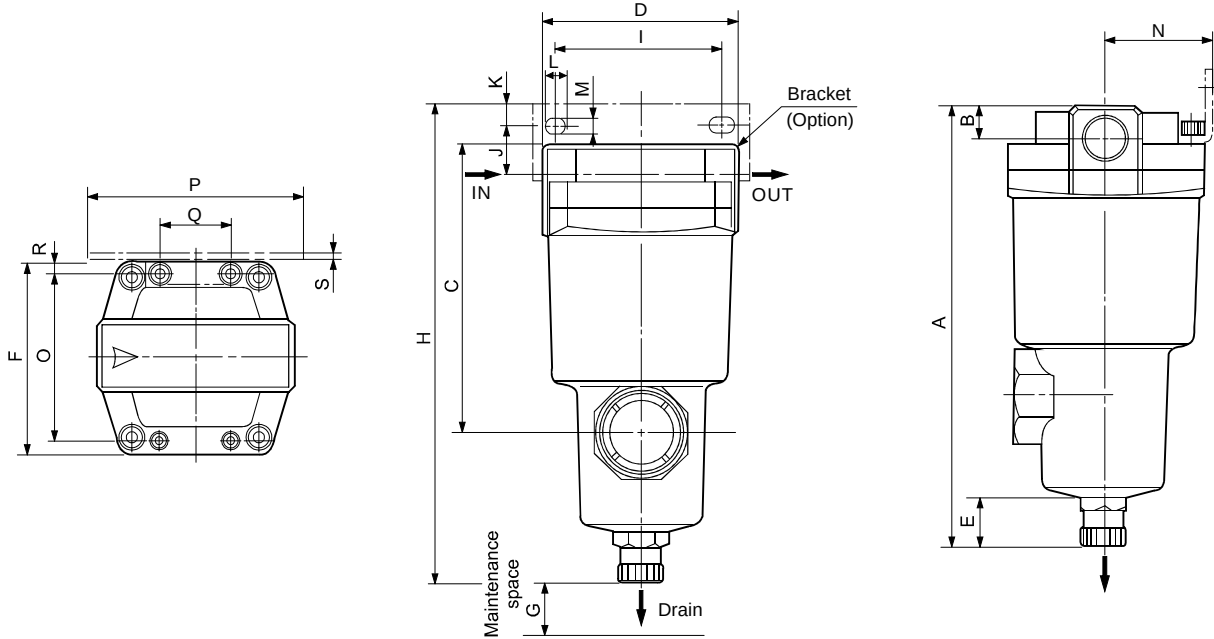
Note) Max. flow capacity at a pressure of 0.7 MPa. Max. flow varies depending on operating pressure.

Micro Mist Separator Series AMD



Dimensions

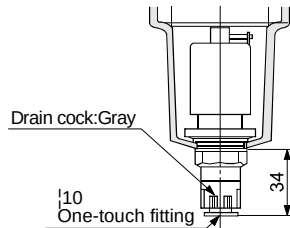
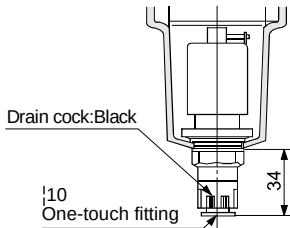
AMD350, AMD550



Accessory

D: With auto-drain (N.O.)

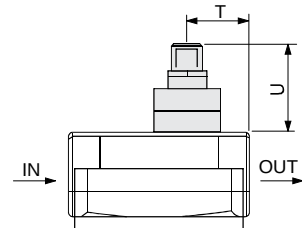
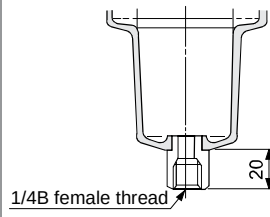
C: With auto-drain (N.C.)



Option

J: With drain guide

T: With element service indicator



Model	Port size (Nominal size B)	A	B	C	D	E	F	G	Dimensions with mounting bracket												Element service indicator	
									H	I	J	K	L	M	N	O	P	Q	R	S	T	U
AMD350	3/8,1/2	204	16	145	90	20	90	10	218	80	22	8	14	7	50	80	100	34	5	2.3	32	37
AMD550	3/4,1	259	22	200	122	20	122	10	277	100	30	10	16	9	65	102	130	60	10	4.5	39	37

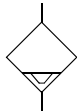
AFF
AM
AMD
AD01/02
AC
AF
AR
AL
AW
UFRL
UFR/L
UF
UR
UL
UFR
FRL-700A
FRL-600A
F-200A
NR200
R200
L-200A
FR500A
YAC,YEC
YAC,YEC
YAF,YEF
YAR,YER
YAR,YER
YAL,YEL
SFC
SFL,SFR

Related Products: Auto Drain Valve

Series AD401, AD402



Symbol



Drainage is automatically discharged in a reliable manner, without requiring human operators.

Highly resistant to dust and corrosion, operates reliably, and a bowl guard is provided as standard equipment.

Specifications

Model	AD401	AD402
Proof pressure	1.5 MPa	1.5 MPa
Max. operating pressure	1.0 MPa	1.0 MPa
Operating pressure range ⁽¹⁾	0.15~1.0 MPa	0.1~1.0 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)	-5 to 60°C (No freezing)
Port size	Rc1/4, 3/8, 1/2	Rc1/4, 3/8, 1/2
Drain discharge port size	1/8	3/8
Weight	300g	620g

Note(1): Use for air compressor with flow larger than 400 l/min (ANR).

Selection

Warning

1. Use auto-drain under the following operating conditions, or it will lead to malfunctions.
 - 1) Operate the compressor above 3.7 kw {400 l/min (ANR)}.
 - 2) Use AD402 at an operating pressure above 0.1 Mpa.

Piping

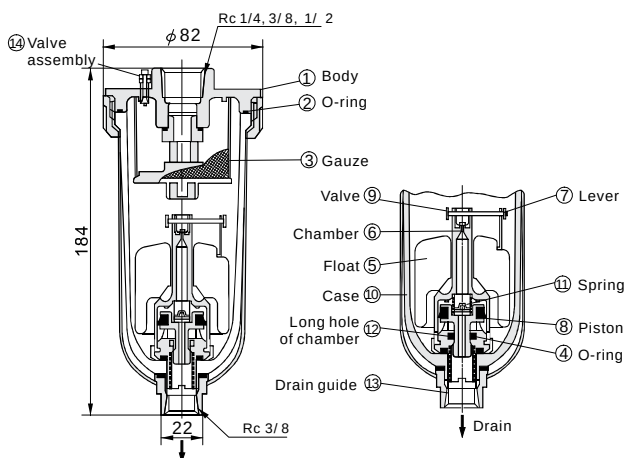
Warning

1. Use auto-drain under the following operating conditions, or it will lead to malfunctions.

To connect a drain discharge pipe, use a pipe with a minimum bore of $\frac{1}{10}$, and a maximum length of 5 m. Avoid using a riser pipe.

Construction

AD402



Component Parts

No.	Description	Material
係	Body	Aluminum die-casted

Replacement Parts

No.	Description	Material	Model	
			AD402	AD402S
係	O-ring	NBR	11316	
係	Gauze	Stainless steel	20062	
(1)	Internal assembly	—	AD34PA	
係	Piston assembly	—	—	
⑭	Valve assembly	—	201037P	

Note 1) Internal assembly: Assembly for parts 係 to ⑭ except ⑭.

Note 2) Part no. for bowl assembly: AD34

Note 3) Part no. for bowl 係 201016

Working principle (AD402)

- When no pressure is applied internally to bowl, float descends of its own weight and valve closes chamber hole. Piston is pushed down by spring, and the drainage passes through the chamber's elongated hole to enter the housing and is discharged. When pressure is applied internally to the bowl: When pressure is larger than 1 MPa, it overcomes the force of spring, allowing piston to ascend, and comes in contact with O-ring.

Thus, the inside of bowl is isolated from the outside.

When drainage has accumulated: Float ascends due to flotation and opens the chamber's hole, allowing the pressure to enter chamber. Piston descends due to the force of the internal pressure and spring, and the accumulated drainage is discharged through drain guide.

Air Filter + Regulator + Lubricator

Air Combination

Series AC



How to Order

AC 30 00 03 DG

Accessories (Options)

Symbol	Description	Applicable model
C	Auto drain	Float style (N.C.): AC2000 to AC5000
D	Auto drain	Pressure differential style: AC1000, AC2000 Float style (N.O.): AC2000 to AC5000
G	Pressure gauge	Without limit indicator: AC1000
		With limit indicator: AC2000 to AC5000

Port size

M5	M5;0.8	04	1/2
01	1/8	06	3/4
02	1/4	10	1
03	3/8		

Thread

Nil	Metric thread (M5)
	Rc (PT)
N	NPT
F	G(PF)

Combination of equipment

Symbol	Combination of equipment			
	Filter (AF)	Regulator (AR)	Lubricator (AL)	Filter regulator (AW)
00	係	係	係	—
10	—	—	係	係
20	係	係	—	—

(1) Numbers in ; indicate the constructing order from the left hand side (upper stream) with a view from front.

Ex.) Symbol 00;AF+AR+AL

10;AW+AL

20;AF+AR

(2) Standard bracket for a set of 2 pieces: T type bracket A set of 3 pieces or more: L type bracket

Body size

10	M5	40	1/2
20	1/8	50	3/4
30	3/8		

Air Filter + Regulator + Lubricator

AFF
AM
AMD
AD01/02
AC
AF
AR
AL
AW
UFRL
UFR/L
UF
UR
UL
UFR
FL-700A
FL-600A
F-200A
NR200
R200
L-200A
FR500A
YAC,YEC
YAC,YEC
YAF,YEF
YAR,YER
YAL,YEL
SFC
SFL,SFR

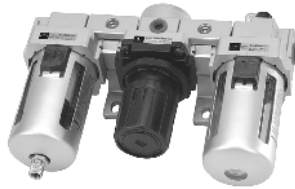
Air Filter + Regulator + Lubricator

Air Combination

Series AC1000 to 5000



AC2000

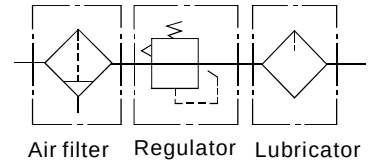


AC4000



AC5000

Symbol



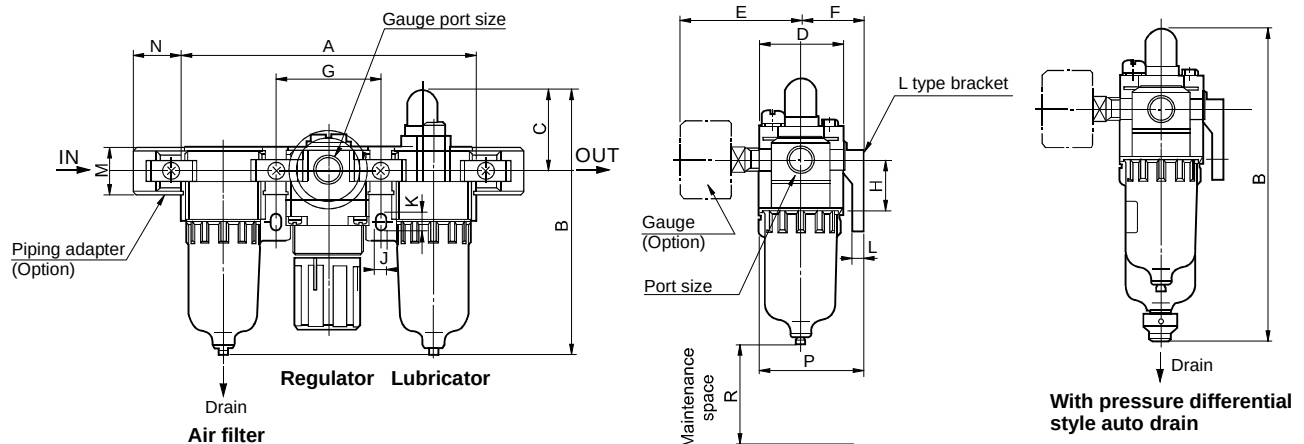
Specifications

Model		AC1000	AC2000	AC3000	AC4000	AC4000-06	AC5000
Combination equipment	Air filter	AF1000	AF2000	AF3000	AF4000	AF4000-06	AF5000
	Regulator	AR1000	AR2000	AR3000	AR4000	AR4000-06	AR5000
	Lubricator	AL1000	AL2000	AL3000	AL4000	AL4000-06	AL5000
Port size		M5 _j 0.8	1/4	1/4 3/8	3/8 1/2	3/4	3/4 1
Gauge port size(Rc(PT))		1/16	1/8	1/8	1/4	1/4	1/4
Fluid		Air					
Proof pressure		1.5MPa					
Max. operating pressure		1.0MPa					
Set pressure range		0.05to0.7MPa	0.05~0.85 MPa				
Flow(l/min(ANR))(Port size) ⁽¹⁾		90(M5 _j 0.8)	500(1/4)	2000(3/8)	4000(1/2)	4500(3/4)	5000(3/4)
Ambient and fluid temperature		-5~60 ℃(Non-freezing)					
Filtration		5 μm					
Recommended lubricant		Turbine oil class 1(ISO VG32)					
Bowl material		Polycarbonate					
Construction/Regulator		Relieving style					
Weight (kg)		0.26	0.74	1.18	2.14	2.47	3.82
Accessory (Standard equipment)	Bowl guard	—	—	●	●	●	●
	Bracket	B110L	B210L	B310L	B410L	B510L	B610L

Note(1): Supply pressure: 0.7 MPa, Set pressure: 0.5 Mpa

Dimensions

AC1000, AC2000



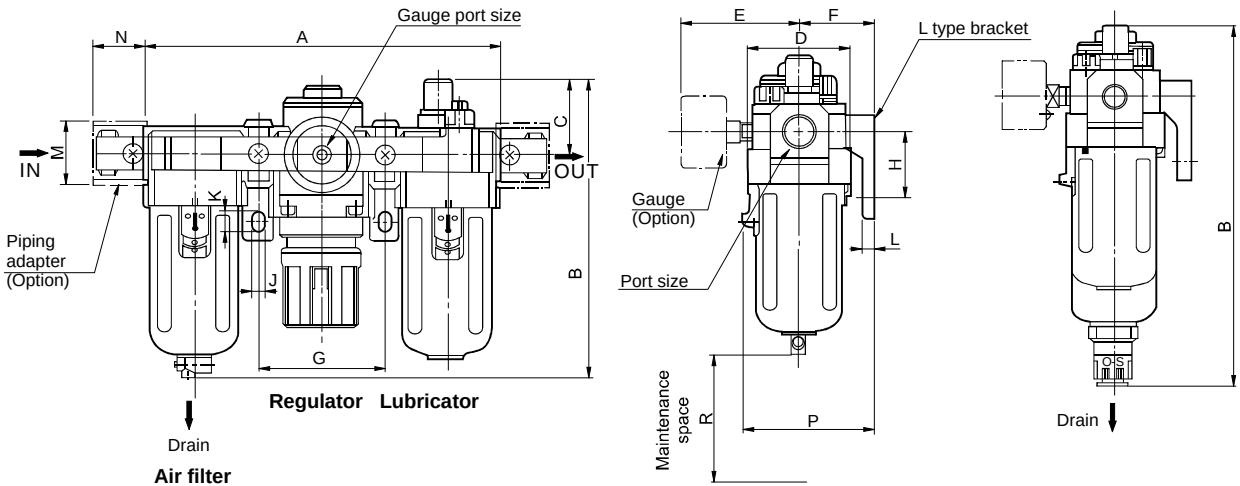
Air Filter + Regulator + Lubricator

Air Combination

Series AC1000 to 5000



AC3000, AC4000, AC4000-06, AC5000



Model	Port size	A	B	C	D	Bracket mounting size							M	N	P	R	With auto drain	
						E	F	G	H	J	K	L					Float	Pres.Dif.
																	B	B
AC1000	M5 ₁ 0.8	91	84.5	25.5	25	26	25	33	20	4.5	7.5	5	17.5	16	38.5	50	—	105
AC2000	1/4	140	124.5	38	40	56.8	30	50	24	5.5	8.5	5	22	23	50	80	—	147.5
AC3000	1/4,3/8	181	153	38	53	60.8	41	64	35	7	11	7	34.2	26*	70.5	80	194	—
AC4000	3/8,1/2	238	188	41	70	65.5	50	84	40	9	13	7	42.2	33*	88	105	229	—
AC4000-06	3/4	253	189.5	40.5	70	69.5	50	89	40	9	13	7	46.2	36	88	105	230.5	—
AC5000	3/4,1	300	268	48	90	75.5	70	105	50	12	16	10	55.2	40	108	105	309.5	—

* For piping adapter AC3000, port size 1/2: 40mm
 For AC4000, port size 3/4: 50mm

係

AFF

AM

AMD

AD01,02

AC

AF

AR

AL

AW

UFRL

UFR/L

UF

UR

UL

UFR

FRL-700A

FRL-600A

F-200A

NR200

R200

L-200A

FR500A

YAC,YEC

YAC,YEC

YAF,YEF

YAR,YER

YAR,YER

YAL,YEL

SFC

SFL,SFR

Air Filter + Regulator + Lubricator

Air Combination

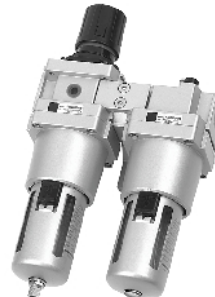
Series AC1010 to 5010



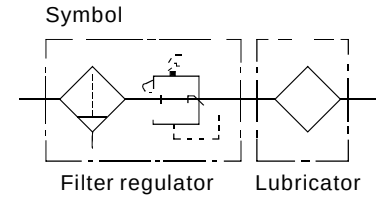
AC2010



AC4010



AC5010



Specifications

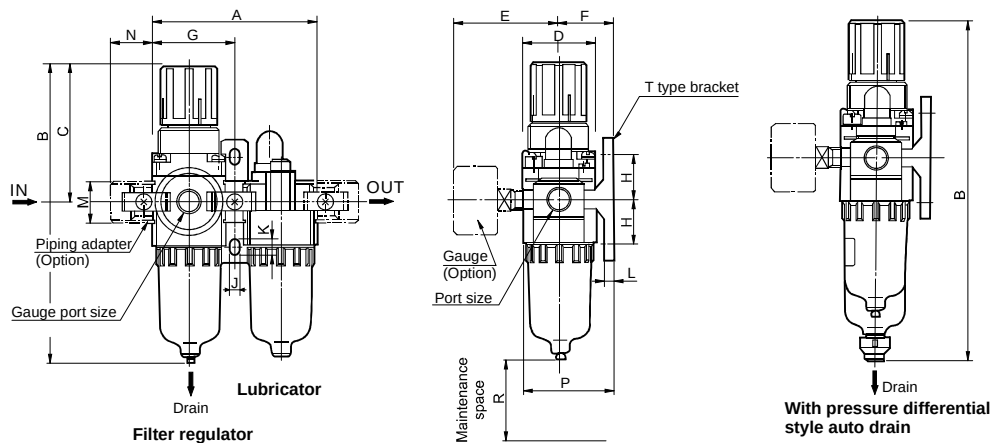
Model		AC1010	AC2010	AC3010	AC4010	AC4010-06	AC5010
Combination equipment	Filter regulator	AW1000	AW2000	AW3000	AW4000	AW4000-06	AW5010
	Lubricator	AL1000	AL2000	AL3000	AL4000	AL4000-06	AL5010
Port size		M5 _j 0.8	1/4	1/4 3/8	3/8 1/2	3/4	3/4 1
Gauge port size(Rc(PT))		1/16	1/8	1/8	1/4	1/4	1/4
Fluid		Air					
Proof pressure		1.5MPa					
Max. operating pressure		1.0MPa					
Set pressure range		0.05~0.7MPa	0.05~0.85 MPa				
Flow(ℓ/min(ANR))(Port size) ⁽¹⁾		90(M5 _j 0.8)	500(1/4)	1700(3/8)	3000(1/2)	3000(3/4)	4000(3/4)
Ambient and fluid temperature		-5~60 ℃(Non-freezing)					
Filtration		5 μm					
Recommended lubricant		Turbin oil class 1(ISO VG32)					
Bowl material		Polycarbonate					
Construction/Filter regulator		Relieving style					
Weight (kg)		0.22	0.66	0.98	1.93	1.99	3.2
Accessory (Standard equipment)	Bowl guard	—	—	●	●	●	●
	Bracket ⁽²⁾	B110T	B210T	B310T	B410T	B510T	B610T

Note(1): Conditions: Supply pressure 0.7MPa, Set pressure 0.5MPa

Note(2): For a set of 3 pieces or more: L type bracket

Dimensions

AC1010, AC2010



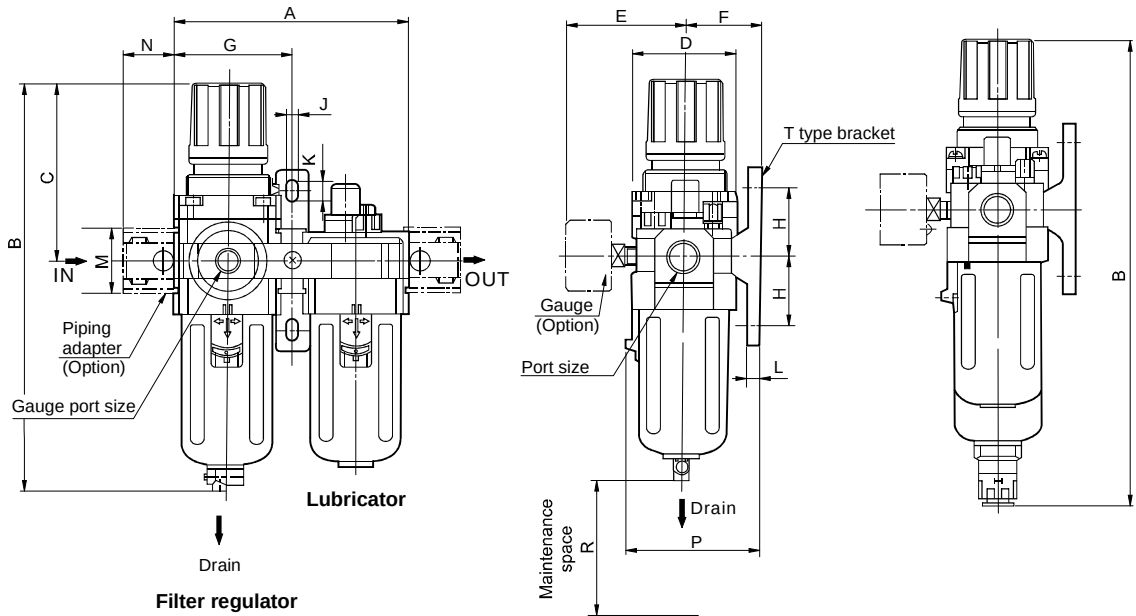
Air Filter + Regulator + Lubricator

Air Combination

Series AC1010 to 5010



AC3010, AC4010, AC4010-06, AC5010



Model	Port size	A	B	C	D	E	Bracket mounting size						M	N	P	R	With auto drain	
							F	G	H	J	K	L					Float	Press. Off.
																	B	B
AC1010	M5 _{0.8}	58	109.5	50.5	25	26	25	29	20	4.5	7.5	5	17.5	16	38.5	50	—	130
AC2010	1/4	90	164.5	78	40	56.8	30	45	24	5.5	8.5	5	22	23	50	80	—	187.5
AC3010	1/4, 3/8	117	207.5	92.5	53	60.8	41	58.5	35	7	11	7	34.2	26*	70.5	80	248.5	—
AC4010	3/8, 1/2	154	259	112	70	70.5	50	77	40	9	13	7	42.2	33*	88	105	300	—
AC4010-06	3/4	164	263	114	70	70.5	50	82	40	9	13	7	46.2	36	88	105	304	—
AC5010	3/4, 1	195	338	116	90	75.5	69.8	97.5	50	12	16	10.5	55.2	40	115	130		

係

AFF

AM

AMD

AD01,AD2

AC

AF

AR

AL

AW

UFR/L

UFR/L

UF

UR

UL

UFR

FR-700A

FR-600A

F-200A

NR200

R200

L-200A

FR500A

YAC,YEC

YAC,YEC

YAF,YEF

YAR,YER

YAL,YEL

SFC

SFL,SFR



AC4020



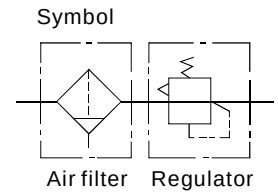
AC3020



AC2020



AC1020



Specifications

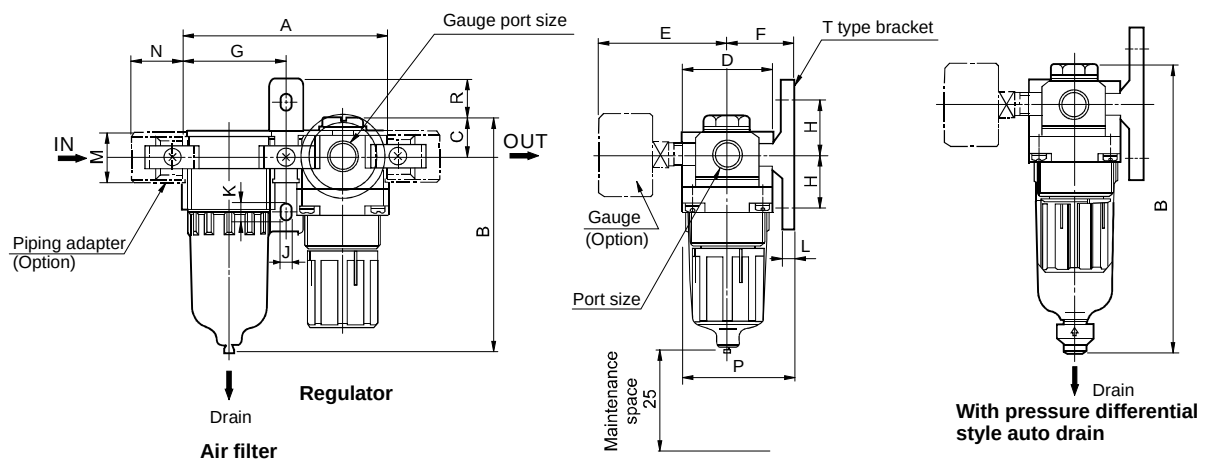
Model		AC1020	AC2020	AC3020	AC4020	AC4020-06	AC5020
Combination equipment	Air filter	AF1000	AF2000	AF3000	AF4000	AF4000-06	AF5000
	Regulator	AR1000	AR2000	AR3000	AR4000	AR4000-06	AR5000
Port size		M5 _j 0.8	1/4	1/4 3/8	3/8 1/2	3/4	3/4 1
Gauge port size(Rc(PT))		1/16	1/8	1/8	1/4	1/4	1/4
Fluid		Air					
Proof pressure		1.5MPa					
Max. operating pressure		1.0MPa					
Set pressure range		0.05~0.7 MPa	0.05~0.85 MPa				
Flow(l/min(ANR))(Port size) ⁽¹⁾		100(M5 _j 0.8)	500(1/4)	2000(3/8)	4000(1/2)	5000(3/4)	6000(3/4)
Ambient and fluid temperature		-5~60 ℃(Non-freezing)					
Filtration		5 μm					
Bowl material		Polycarbonate					
Construction/Regulator		Relieving style					
Weight (kg)		0.21	0.54	0.82	1.61	1.71	2.52
Accessory (Standard equipment)	Bowl guard	—	—	●	●	●	●
	Bracket ⁽²⁾	B110T	B210T	B310T	B410T	B510T	B610T

Note(1): Conditions: Supply pressure 0.7MPa, Set pressure 0.5MPa

Note(2): Set of 3 or more than 3 pieces: L type bracket

Dimensions

AC1020, AC2020



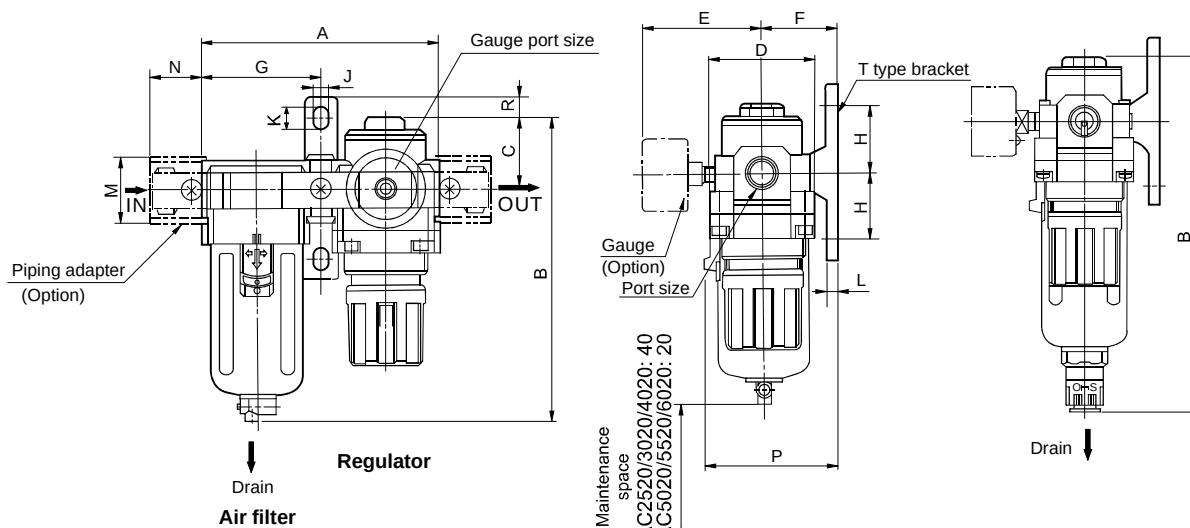
Air Filter + Regulator

Air Combination

Series AC1020 to 5020



AC3020, AC4020, AC4020-06, AC5020



Model	Port size	A	B	C	D	E	Bracket mounting size						M	N	P	R	With auto drain	
							F	G	H	J	K	L					Float	Press. Off.
																	B	B
AC1020	M5;0.8	58	70	11	25	26	25	29	20	4.5	7.5	5	17.5	16	38.5	16	—	90.5
AC2020	1/4	90	103.5	17	40	56.8	30	45	24	5.5	8.5	5	22	23	50	16	—	126.5
AC3020	1/4, 3/8	117	150	35	53	60.8	41	58.5	35	7	11	7	34.2	26*	70.5	10	191	—
AC4020	3/8, 1/2	154	184.5	37.5	70	65.5	50	77	40	9	13	7	42.2	33*	88	12.5	225.5	—
AC4020-06	3/4	164	189.5	40.5	70	69.5	50	82	40	9	13	7	46.2	36	88	9.5	230.5	—
AC5020	3/4, 1	195	268	48	90	75.5	70	97.5	50	12	16	10	55.2	40	115	14.5	309.5	—

係

AFF

AM

AMD

AD01,02

AC

AF

AR

AL

AW

UFRL

UFR/L

UF

UR

UL

UFR

FRL-700A

FRL-600A

F-200A

NR200

R200

L-200A

FR500A

YAC,YEC

YAC,YEC

YAF,YEF

YAR,YER

YAL,YEL

SFC

SFL,SFR

How to Order

AF 30 00 — 03 B

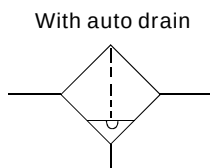
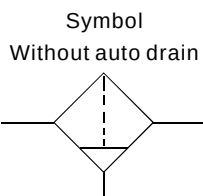


AF2000

AF3000



AF5000



Accessory

Symbol	Description	Applicable model
Nil	—	—
B	Bracket	AF2000 to AF5000
C	Float auto drain(N.C.)	AF2000 to AF5000
D	Float auto drain(N.O.)	AF2000 to AF5000
	Press.differential auto-drain	AF1000 to AF2000

Port size

M5	M5;0.8	03	3/8
01	1/8	04	1/2
02	1/4	06	3/4

Thread

Nil	Meter thread(M5)
	Rc(PT)
N	NPT
F	G(PF)

Body size

10	M5	40	1/2
20	1/8	50	3/4
30	3/8		

Air filter

Specifications

Model	AF1000	AF2000	AF3000	AF4000	AF4000-06	AF5000
Port size	M5;0.8	1/4	1/4,3/8	3/8,1/2	3/4	3/4,1
Fluid	Air					
Proof pressure	1.5 MPa					
Max.operating pressure	1.0 MPa					
Flow(l/min(ANR))(Port size)	110(M5)	750(1/4)	150(1/4,3/8)	400(3/8,1/2)	600(3/4)	700(3/4,1)
Ambient and fluid temperature	-5~60;(No freezing)					
Filtration	5µm					
Bowl material	Polycarbonate					
Bowl capacity	2.5	8	23	45	45	45
Weight (kg)	0.07	0.19	0.29	0.55	0.58	1.08
Accessory(standard)	Bowl guard					
	—	—	●	●	●	●

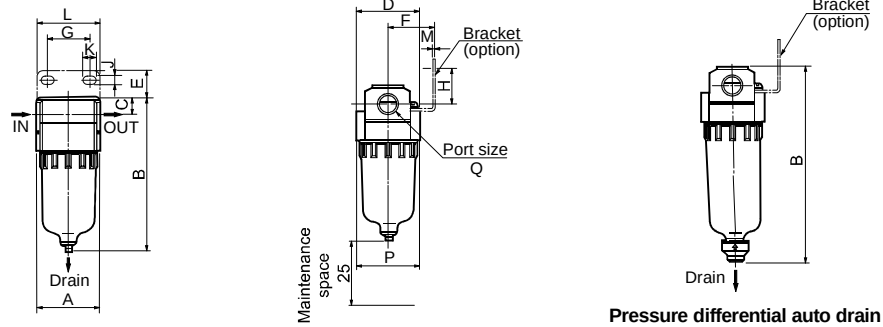
Air Filter

Series AF1000 to 5000

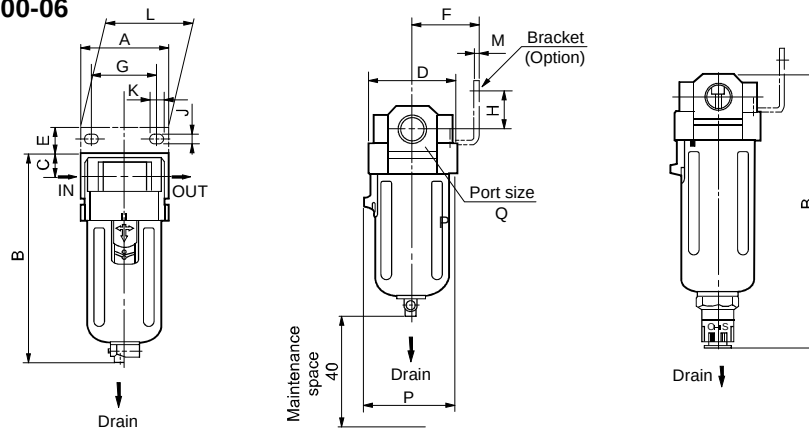


Dimensions

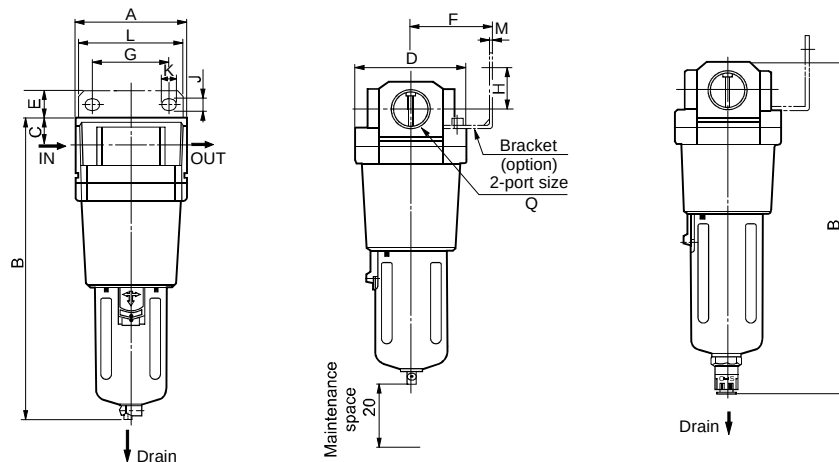
AF1000, AF2000



AF3000, AF4000, AF4000-06



AF5000



Model	Port size	A	B	C	D	Bracket mounting size								P	With auto drain	
						E	F	G	H	J	K	L	M		Float	Press.Diff.
															B	B
AF1000	M5,0.8	25	66	7	25	—	—	—	—	—	—	—	—	27.5	—	86.5
AF2000	1/4	40	97.5	11	40	17	30	27	22	5.4	8.4	40	2.3	40	—	120.5
AF3000	1/4,3/8	53	129	14	53	16	41	40	23	6.5	8	53	2.3	59	170	—
AF4000	3/8,1/2	70	165	18	70	17	50	54	26	8.5	10.5	70	2.3	73	206	—
AF4000-06	3/4	75	169	20	70	14	50	54	25	8.5	10.5	70	2.3	73	210	—
AF5000	3/4,11	90	244	24	90	23	70	66	35	11	13	90	3.2	—	285.5	—

係

AFF

AM

AMD

AD1,AD2

AC

AF

AR

AL

AW

UFRL

UFR/L

UF

UR

UL

UFR

FL-700A

FL-600A

F-200A

NR200

R200

L-200A

FR500A

YAC,YEC

YAC,YEC

YAF,YEF

YAR,YER

YAR,YER

YAL,YEL

SFC

SFL,SFR

How to Order

AR 30 00 — 03 BG



AR2000

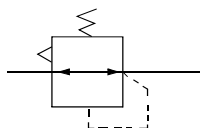


AR3000



AR5000

Symbol



Accessories(Options)

Symbol	Description	Applicable model
Nil	—	—
B	Bracket	AR1000 to AR5000
G	Without limit indicator	AR1000
	With limit indicator	AR2000 to AR5000

Port size

M5	M5;0.8	04	1/2
01	1/8	06	3/4
02	1/4	10	1
03	3/8		

Thread

Nil	Meter thread(M5)		
	Rc(PT)		
N	NPT		
F	G(PF)		

Body size

10	M5	30	3/8
20	1/8	40	1/2
25	1/4	50	3/4

Regulator

Specifications

Model	AR1000	AR2000	AR3000	AR4000	AR4000-06	AR5000
Port size	M5;0.8	1/4	1/4 3/8	3/8 1/2	3/4	3/4 1
Fluid	Air					
Proof pressure	1.5 MPa					
Max.operating pressure	1.0 MPa					
Set pressure range	0.05-0.7MPa	0.05-0.85 MPa				
Pressure gauge port size	1/16	1/8	1/8	1/4	1/4	1/4
Ambient and fluid temperature	-5~60;(Non-freezing)					
Construction	Relieving style					
Weight(kg)	0.08	0.27	0.41	0.84	0.94	1.19

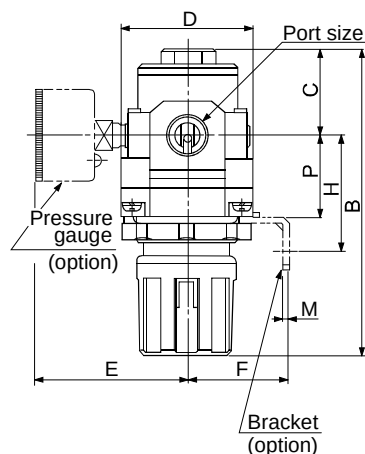
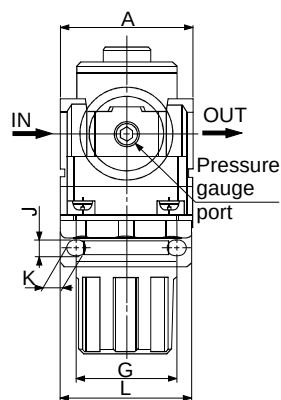
Regulator

Series AR1000 to 5000

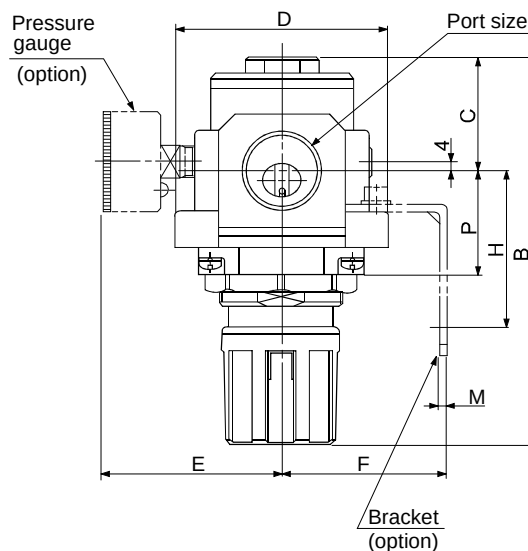
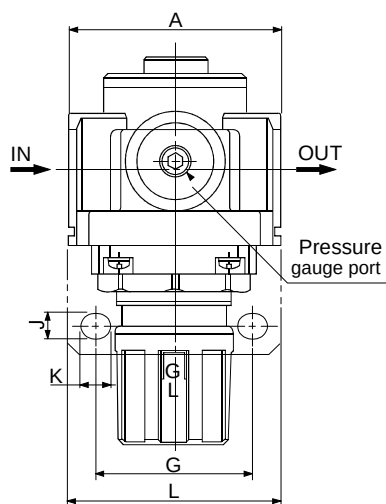


Dimensions

AR1000 to AR4000



AR5000



Model	Port size	A	B	C	D	E	Bracket mounting dimensions							N	P
							F	G	H	J	K	L	M		
AR1000	M5;0.8	25	61.5	11	25	26	25	28	30	4.5	6.5	40	2	20.5	19
AR2000	1/4	40	95	17	40	56.8	30	34	44	5.4	15.4	55	2.3	33.5	25
AR3000	1/4,3/8	53	127.5	35	53	60.8	41	40	46	6.5	8	53	2.3	42.5	32.5
AR4000	3/8,1/2	70	149.5	37.5	70	65.5	50	54	54	8.5	10.5	70	2.3	52.5	36
AR4000-06	3/4	75	154.5	40.5	70	69.5	50	54	56	8.5	10.5	70	2.3	52.5	38
AR5000	3/4,1	90	168	48	90	75.5	70	66	65.8	11	13	90	3.2	52.5	44

AFF
AM
AMD
AD01,402
AC
AF
AR
AL
AW
UFRL
UFR/L
UF
UR
UL
UFR
FR-700A
FR-600A
F-200A
NR200
R200
L-200A
FR500A
YAC,YEC
YAC,YEC
YAF,YEF
YAR,YER
YAR,YER
YAL,YEL
SFC
SFL,SFR

Series AL1000 to 5000

How to Order

AL 30 00 — 03



AL2000

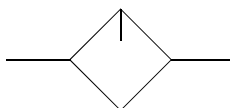


AL4000



AL5000

Symbol



Accessory

Symbol	Description	Model
Nil	—	—
B	With bracket	AL2000 to AL5000

Port size

M5	M5;0.8	04	1/2
01	1/8	06	3/4
02	1/4	10	1
03	3/8		

Thread

Nil	Rc(PT)
N	NPT
F	G(PF)

Body size

10	M5	40	1/2
20	1/8	50	3/4
30	3/8		

Lubricator

Specifications

Model	AL1000	AL2000	AL3000	AL4000	AL4000G	AL5000
Port size	M5;0.8	1/4	1/4,3/8	3/8,1/2	3/4	3/4,1
Fluid	Air					
Proof pressure	1.5 MPa					
Max.operating pressure	1.0 MPa					
Min.operating flow(ℓ/min(ANR)) ⁽¹⁾	4	15	1/4:30 3/8:40	3/8:40 1/2:50	50	190
Bowl capacity (cm ³)	7	25	50	130	130	130
Recommended oil	Turbin oil class 1(ISO VG32)					
Ambient and fluid temperature	-5~60;(No freezing)					
Bowl material	Polycarbonate					
Weight (kg)	0.07	0.22	0.28	0.52	0.58	1.08
Accessory(standard)	Bowl guard					
Bracket assembly ⁽¹⁾	B140A	B240A	B340A	B440A	B540A	B640A

Note(1): Conditions: Primary pressure = 0.5MPa, Number of drops = 5/min, Turbine oil class 1 (ISO CG32), Needle stud fully open.

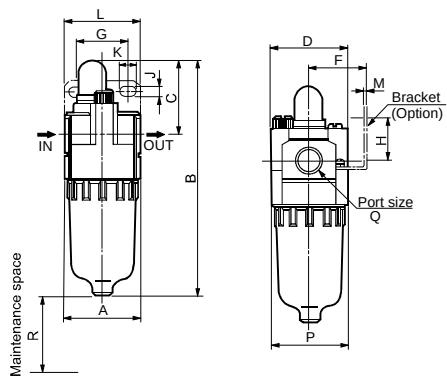
Lubricator

Series AL1000 to 5000

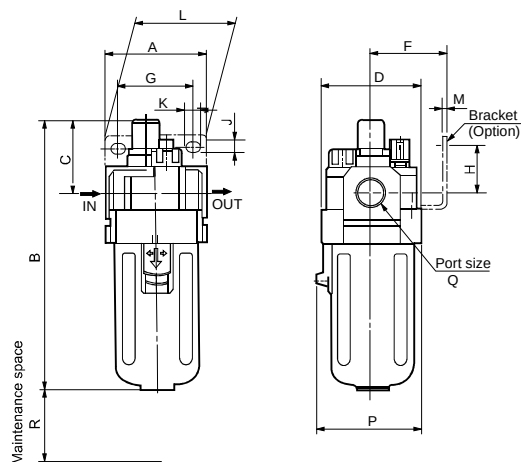


Dimensions

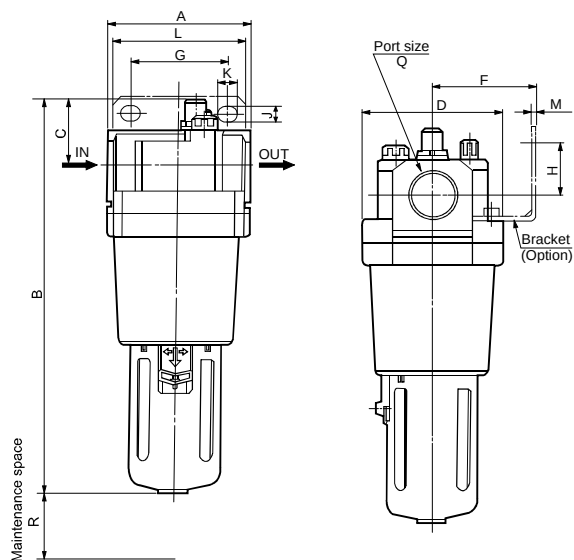
AL1000, AL2000



AL3000, AL4000, AL4000-06



AL5000



Model	Port size Q	A	B	C	D	Bracket mounting dimensions							P	R
						F	G	H	J	K	L	M		
AL1000	M5;0.8	25	81.5	25.5	25	—	—	—	—	—	—	—	27	50
AL2000	1/4	40	122	38	40	30	27	22	5.4	8.4	40	2.3	40	80
AL3000	1/4,3/8	53	142	38	53	41	40	23	6.5	8	53	2.3	56	95
AL4000	3/8,1/2	70	177	41	70	50	54	26	8.5	10.5	70	2.3	73	120
AL4000-06	3/4	75	177	39	70	50	54	25	8.5	10.5	70	2.3	73	120
AL5000	3/4,1	90	254	45	90	70	66	35	11	13	90	3.2	—	120

AFF
AM
AMD
AD01,02
AC
AF
AR
AL
AW
UFRL
UFR/L
UF
UR
UL
UFR
FL-700A
FL-600A
F-200A
NR200
R200
L-200A
FR500A
YAC,YBC
YAC,YBC
YAF,YEF
YAR,YER
YAR,YBR
YAL,YEL
SFC
SFL,SFR

Air Filter+Regulator

Series AW1000 to 5000

Direct operated, relieving style.
Minimizes space and piping due
to the integration of the filter and
the regulator.



AW2000

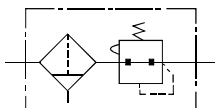


AW3000



AW5000

Symbol



How to Order

AW 30 00 — 03 BG

Accessory

Symbol	Description	Applicable model
Nil	—	—
B	Bracket	AW1000 to AW5000
C	Auto drain	Auto drain float style (NC)
D		Auto drain pressure differential
D		Auto drain float style (NO)
G	Gauge	Without limit indicator
G		With limit indicator

Port size

M5	M5j0.8	04	1/2
01	1/8	06	3/4
02	1/4	10	1
03	3/8		

Thread

Nil	Metric (M5)		
	Rc(PT)		
N	NPT		
F	G(PF)		

Body size

10	M5	40	1/2
20	1/8	50	3/4
30	3/8		

Air Filter+Regulator

Specifications

Model	AW1000	AW2000	AW3000	AW4000	AW4000-06	AW5000
Port size	M5j0.8	1/4	1/4 3/8	3/8 1/2	3/4	3/4 1
Fluid	Air					
Proof pressure	1.5 MPa					
Max.operating pressure	1.0 MPa					
Set pressure range	0.05~0.7MPa	0.05~0.85 MPa				
Gauge port size	1/16	1/8	1/8	1/4	1/4	1/4
Ambient and fluid temperature	-5~60j(No freezing)					
Filtration	5μm					
Drain capacity (cm ³)	2.5	8	23	45	45	65
Bowl material	Polycarbonate					
Construction	Relieving style					
Weight (kg)	0.09	0.36	0.53	1.09	1.15	1.7
Accessory (Std.equipment)	Bowl guard	—	•	•	•	•

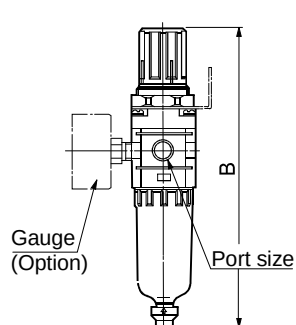
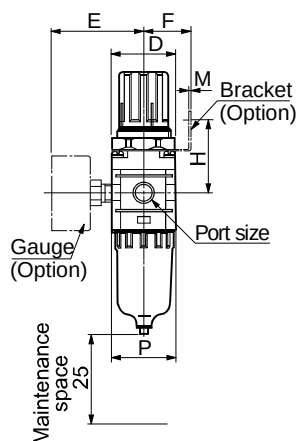
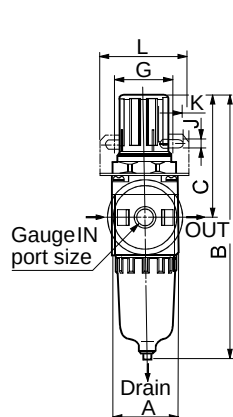
Air Filter+Regulator

Series AW1000 to 5000



Dimensions

AW1000, AW2000

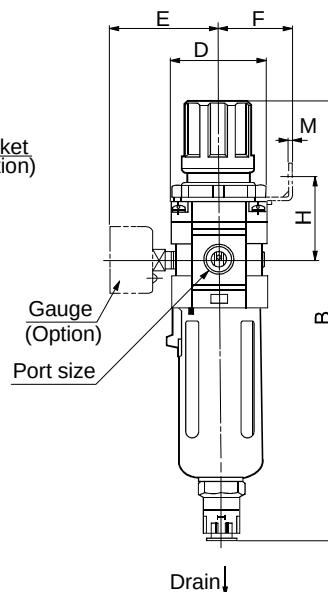
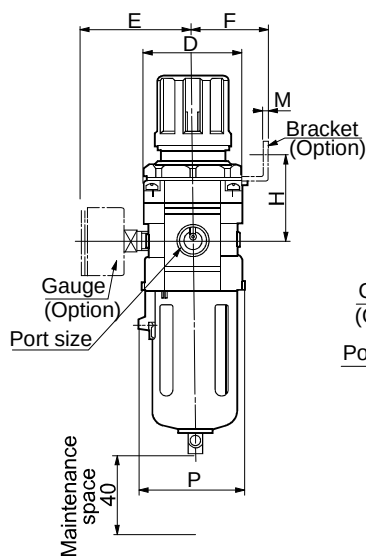
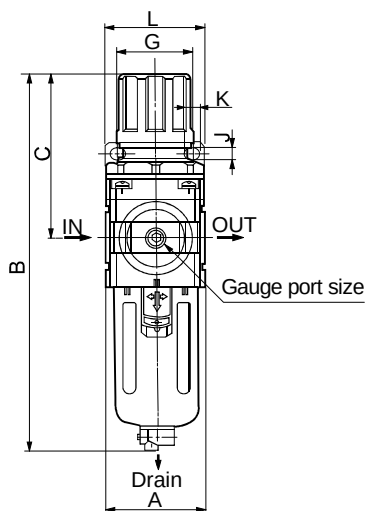


Panel mounting hole

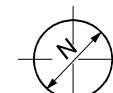


AW1000: Max.3.5t
AW2000: Max.3.5t

AW3000, AW4000, AW4000-06, AW5000



Panel mounting hole



AW3000: Max.3.5t
AW4000: Max.5t

Model	Port size	A	B	C	D	E	Bracket mounting dimensions							N	P	With auto drain	
							F	G	H	J	K	L	M			Float	Press.Diff.
																B	B
AW1000	M5;0.8	25	109.5	50.5	25	26	25	28	30	4.5	6.5	40	2.0	20.5	28	—	130
AW2000	1/4	40	164.5	78	40	56.8	30	34	44	5.4	15.4	55	2.3	33.5	40	—	187.5
AW3000	1/4,3/8	53	207.5	92.5	53	60.8	41	40	46	6.5	8.0	53	2.3	42.5	56	248.5	—
AW4000	3/8,1/2	70	259	112	70	70.5	50	54	54	8.5	10.5	70	2.3	52.5	73	300	—
AW4000-06	3/4	75	263	114	70	70.5	50	54	56	8.5	10.5	70	2.3	52.5	73	304	—
AW5000	3/4,1	90	338	116	90	75.5	49.2	54	62	8.5	10.5	70	2.3	52.5	90	378	—

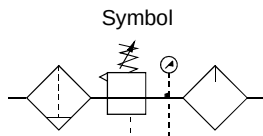
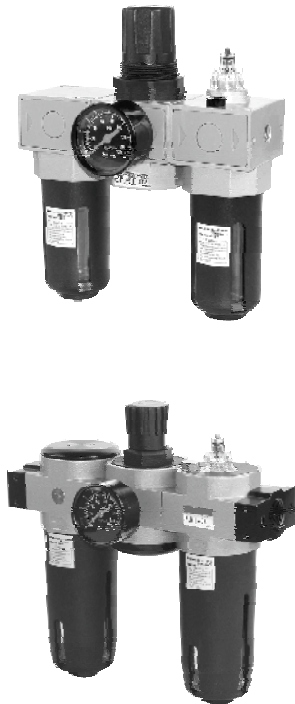
Air Filter + Regulator + Lubricator

Air Combination

Series UFRL

How to Order

UFRL - 02 N C D A



Nil	Standard bowl
A	Anti-acid & alkali bowl
HL	Aluminum bowl

Drain type

Nil	Semi-auto Drain
D	Auto drain
H	Manual drain

Filtration

Nil	5µm	C	40µm
-----	-----	---	------

Thread

Nil	PS	N	NPT
-----	----	---	-----

Port size

02	1/4	06	3/4
03	3/8	08	1
04	1/2		

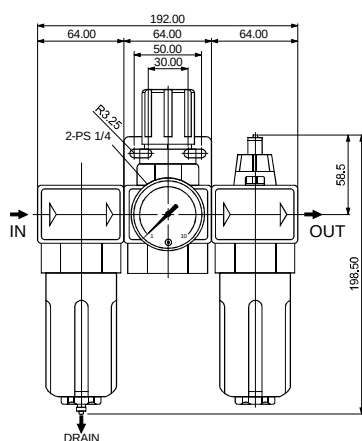
Air Filter+Regulator+Lubricator

Specifications

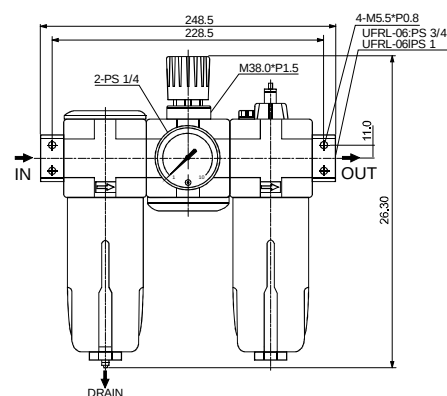
Model	UFRL-02	UFRL-03	UFRL-04	UFRL-06	UFRL-08
Port size	1/4	3/8	1/2	3/4	1
Fluid	Air				
Construction	Piston type regulator				
Body material	Aluminum die-cast				
Bowl material	Polycarbonate(standard)				
Filtration	5μm(standard),40μm(option)				
Set pressure range	0.05~0.99 MPa				
Max. Inlet pressure(standard)	1.2 MPa				
Max. Flow rate	2080	2100	2600	7940	8200
Ambient and fluid temperature	-10j~60j(No freezing)				
Recommended lubricant	Turbin oil class 1(ISO VG32)				
Filter bowl capacity	105cc			210cc	
Lubricator bowl capacity	125cc			235cc	
Standard drain	Semi-automatic drain(below 0.05MPa)				
Net weight for standard	1800g			2650g	
Accessories	1 Gauge, 1 bracket, 4 screw, 1 plug				

Dimensions

UFRL-02,03,04



UFRL-06,08



Air Filter + Regulator + Lubricator

Air Combination

Series UFR/L



How to Order

UFR/L - 02 N C D A

Nil	Standard bowl
A	Anti-acid & alkali bowl
AL	Aluminum bowl

Drain type

Nil	Semi-auto Drain
D	Auto drain
H	Manual drain

Filtration

Nil	5 μ m	C	40 μ m
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Thread

Nil	PS	N	NPT
-----	----	---	-----

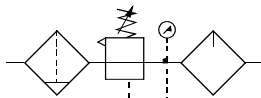
Port size

02	1/4	06	3/4
03	3/8	08	1
04	1/2		

Air Filter+Regulator+Lubricator



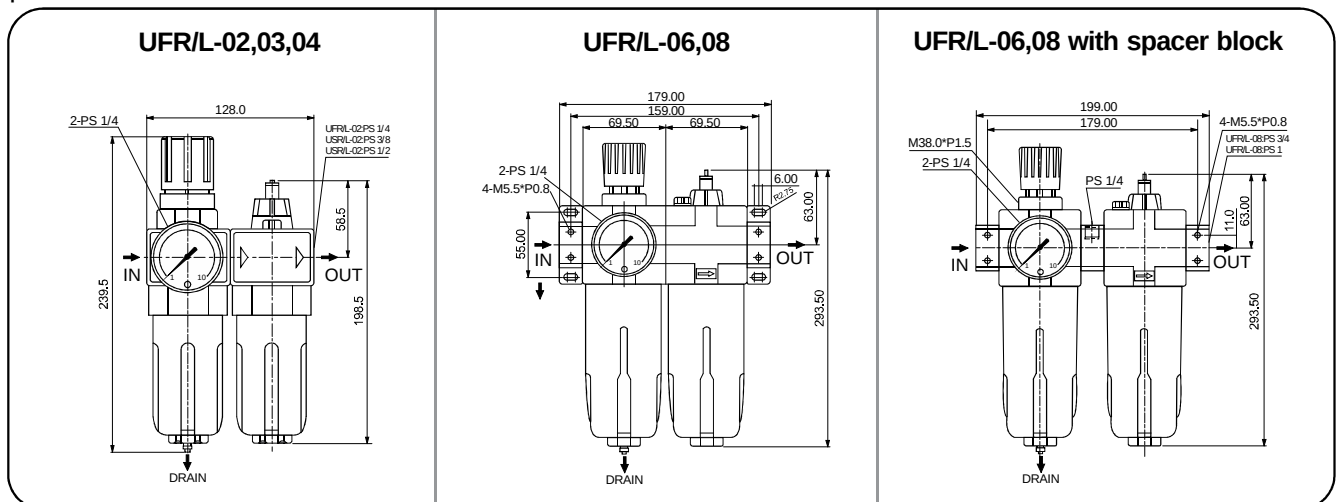
Symbol



Specifications

Model	UFR/L-02	UFR/L-03	UFR/L-04	UFR/L-06	UFR/L-08
Port size	1/4	3/8	1/2	3/4	1
Fluid	Air				
Construction	Piston type regulator				
Body material	Aluminum die-cast				
Bowl material	Polycarbonate(standard)				
Filtration	5 μ m(standard),40 μ m(option)				
Set pressure range	0.05~0.99 MPa				
Max. Inlet pressure(standard)	1.2 MPa				
Max. Flow rate	2080	2100	2600	7940	8200
Ambient and fluid temperature	-10 $\sim$ 60 $\circ$ (No freezing)				
Recommended lubricant	Turbin oil class 1(ISO VG32)				
Filter bowl capacity	105cc			210cc	
Lubricator bowl capacity	125cc			235cc	
Standard drain	Semi-automatic drain(below 0.05MPa)				
Net weight for standard	1480g			2150g	
Accessories	1 Gauge, 1 bracket, 4 screw, 1 plug				

Dimensions

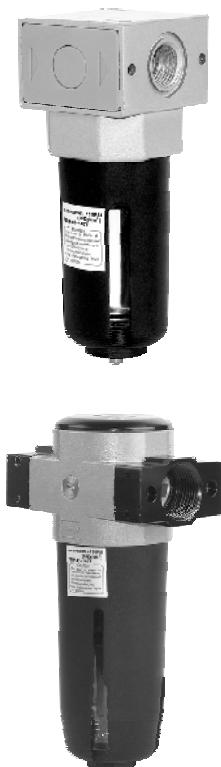


Air Filter

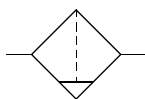
Series UF

How to Order

UF — 02 N C D B A



Symbol



Nil	Standard bowl
A	Anti-acid & alkali bowl
HL	Aluminum bowl

Nil	Without bracket
B	With bracket

Drain type

Nil	Semi-auto drain
D	Auto drain
H	Manual drain

Filtration

Nil	5μm	C	40μm
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Thread

Nil	PS	N	NPT
-----	----	---	-----

Port size

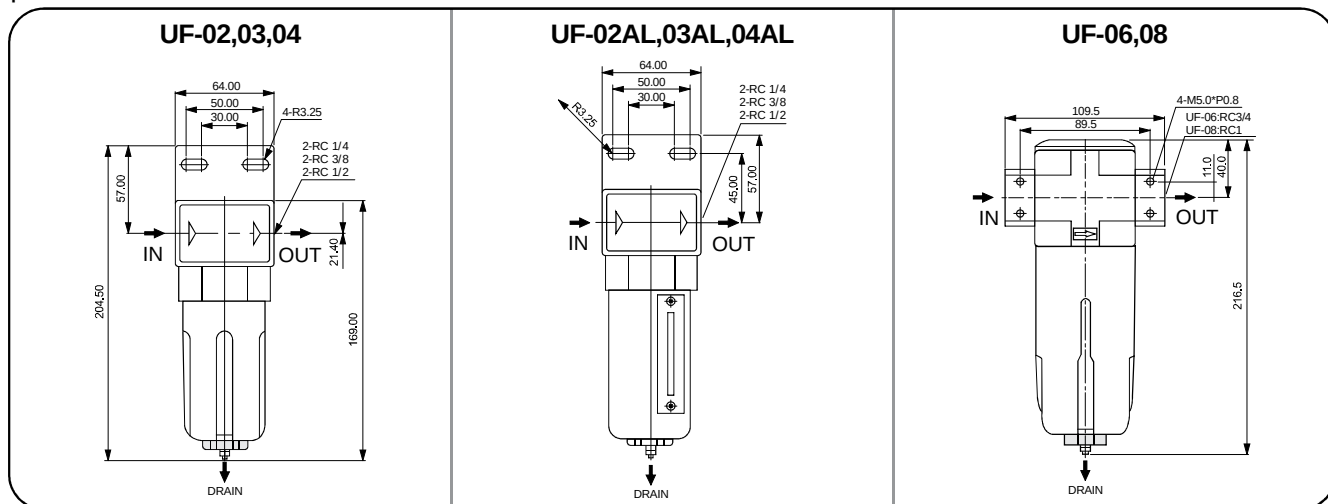
02	1/4	06	3/4
03	3/8	08	1
04	1/2		

Air Filter

Specifications

Model	UF-02	UF-03	UF-04	UF-06	UF-08
Port size	1/4	3/8	1/2	3/4	1
Fluid	Air				
Body material	Aluminum die-cast				
Bowl material	Polycarbonate(standard)				
Filtration	5μm(standard),40μm(option)				
Set pressure range	0.05~0.99 MPa				
Max. Inlet pressure(standard)	1.2 MPa				
Max. Flow rate	2440	2450	3030	8250	8860
Ambient and fluid temperature	-10j~60j(No freezing)				
Filter bowl capacity	105cc		210cc		
Standard drain	Semi-automatoc drain (below 0.05MPa)				
Net weight for standard	530g			1250g	

Dimensions



Regulator Series UR

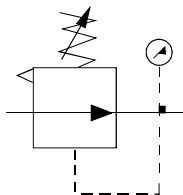


How to Order

UR — 02 N



Symbol



Thread

Nil	PS	N	NPT
-----	----	---	-----

Port size

02	1/4	06	3/4
03	3/8	08	1
04	1/2		

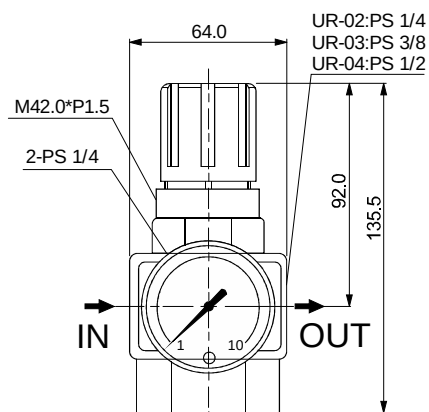
Regulator

Specifications

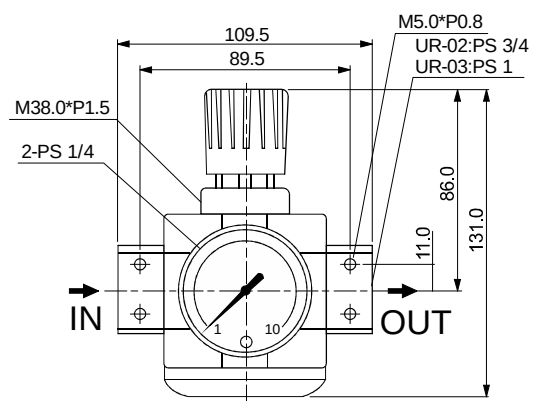
Model	UR-02	UR-03	UR-04	UR-06	UR-08
Port size	1/4	3/8	1/2	3/4	1
Fluid	Air				
Construction	Piston type regulator				
Body material	Aluminum die-cast				
Set pressure range	0.05~0.99 MPa				
Max. Inlet pressure(standard)	1.2 MPa				
Max. flow rate	2100	2130	2750	8000	8500
Ambient and fluid temperature	-10j~60j (No freezing)				
Net weight	740g		1100g		
Accessories	1 Gauge, 1 bracket, 4 screw, 1 plug				

Dimensions

UR-02,03,04



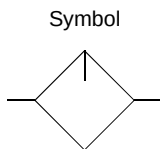
UR-06,08



Lubricator

Series UL

How to Order



UL - 02 N B A

Nil	Standard bowl
A	Anti-alkaline & acid bowl
AL	Aluminum bowl

Nil	Without bracket
B	With bracket

Thread

Nil	PS	N	NPT
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Port size

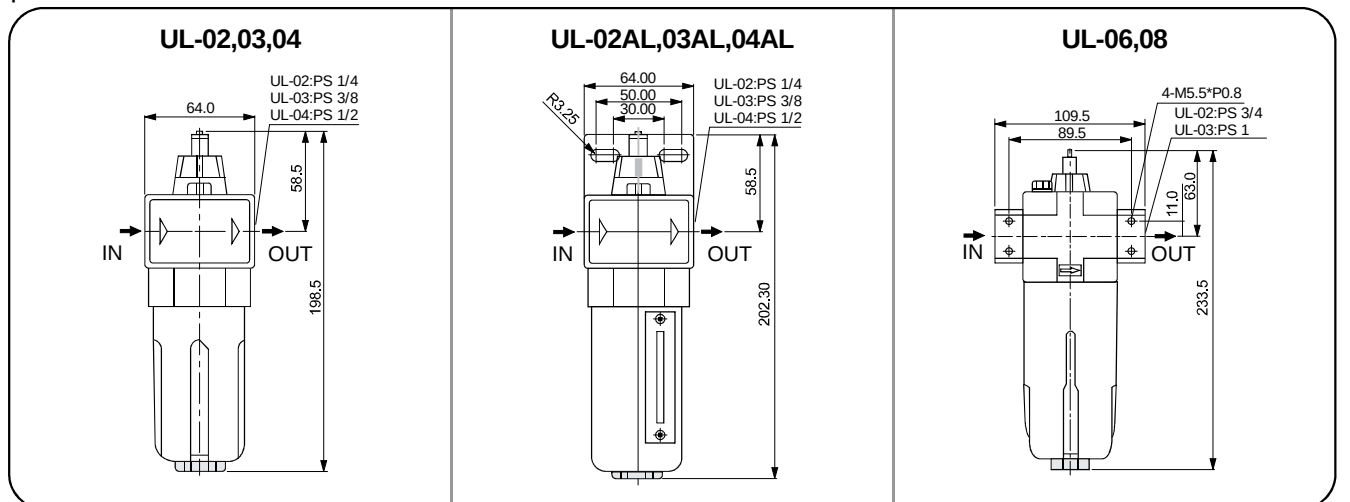
02	1/4	06	3/4
03	3/8	08	1
04	1/2		

Lubricator

Specifications

Model	UL-02	UL-03	UL-04	UL-06	UL-08
Port size	1/4	3/8	1/2	3/4	1
Fluid	Air				
Body material	Aluminum die-cast				
Bowl material	Polycarbonate				
Set pressure range	0.05~0.99 MPa				
Max. Inlet pressure(standard)	1.2 MPa				
Max. flow rate	2490	2525	4310	8400	9000
Ambient and fluid temperature	-10 _i ~60 _i (No freezing)				
Recommended lubricant	Turbin oil class 1(ISO VG32)				
Lubricator bowl capacity	125cc		235cc		
Net wieght	500g		1095g		

Dimensions



Air Filter + Regulator

Series UFR



How to Order



UFR – 02 N C D A

Nil	Standard bowl
A	Anti-acid & alkali bowl
HL	Aluminum bowl

Drain type

Nil	Semi-auto drain
D	Auto drain
H	Manual drain

Filtration

Nil	5 μ m	C	40 μ m
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Thread

Nil	PS	N	NPT
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Port size

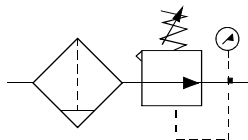
02	1/4	06	3/4
03	3/8	08	1
04	1/2		

Air Filter + Regulator

Specifications

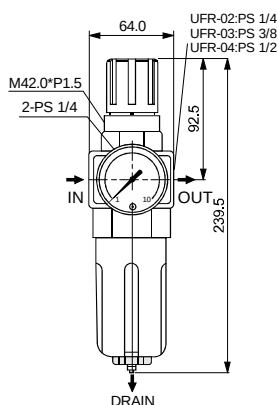
Model	UFR-02	UFR-03	UFR-04	UFR-06	UFR-08
Port size	1/4	3/8	1/2	3/4	1
Fluid	Air				
Construction	Piston type regulator				
Body material	Aluminum die-cast				
Bowl material	Polycarbonate(standard)				
Filtration	5μm(standard),40μm(option)				
Set pressure range	0.05~0.99 MPa				
Max. Inlet pressure(standard)	1.2 MPa				
Max. Flow rate	2100	2130	2750	8000	8500
Ambient and fluid temperature	-10;~60;(No freezing)				
Filter bowl capacity	105cc			210cc	
Standard drain	Semi-automatic drain(below 0.05MPa)				
Net weight for standard	930g			1360g	
Accessories	1 Gauge, 1 bracket, 4 screw, 1 plug				

Symbol

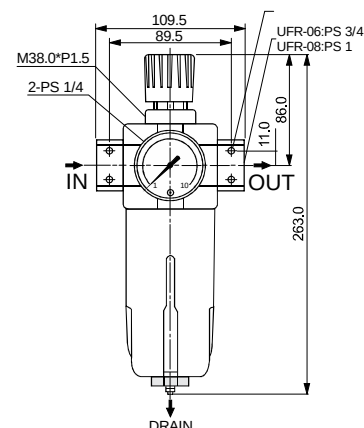


Dimensions

UFR-02,03,04



UFR-06,08



Air Filter + Regulator + Lubricator

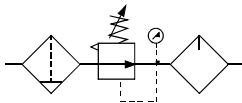
Air Combination

Series FRL-700A

How to Order



Symbol



FRL700A — 02 N C H K

Nil	Without bowl guard
K	W/bowl guard

Drain type

Nil	Semi-auto drain
H	Manual drain

Filtration

Nil	5 μ m	C	40 μ m
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Thread

Nil	PS	N	NPT
-----	----	---	-----

Port size

01	1/8	02	1/4
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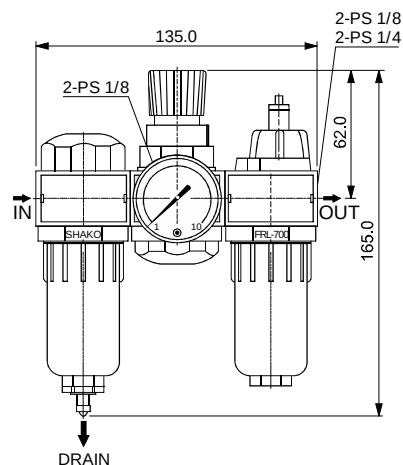
Air Filter+Regulator+Lubricator Connection(3 units)

FRL700A	Polycarbonate body
---------	--------------------

Specifications

Model	FRL700A-01	FRL700A-02
Port size	1/8(option)	1/4(standard)
Fluid	Air	
Construction	Diaphragm type regulator	
Body material	Polycarbonate	
Bowl material	Polycarbonate(standard), Anti-acid & alkali(option)	
Filtration	5 μ m(standard),40 μ m(option)	
Set pressure range	0.05~0.8 MPa	
Max. Inlet pressure(standard)	0.8 MPa	
Max. flow rate	1850l/min	
Ambient and fluid temperature	-10 ° C~60 ° C(No freezing)	
Recommended lubricant	Turbin oil class 1(ISO VG32)	
Filter bowl capacity	35cc	
Lubricator bowl capacity	50cc	
Standard drain	Semi-automatic drain(below 0.05Mpa)	
Net weight	810g	
Accessories	1 Gauge, 1 bracket, 4 screw, 1 plug	

Dimensions



Air Filter + Regulator + Lubricator

Air Combination

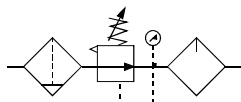
Series FRL-600A



How to Order



Symbol



FRL600A - 02 N C H K

Nil	Without bowl guard
K	With bowl guard

Drain type

Nil	Semi-auto drain
H	Manual drain

Filtration

Nil	5µm	C	40µm
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Thread

Nil	PS	N	NPT
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Port size

01	1/8	02	1/4
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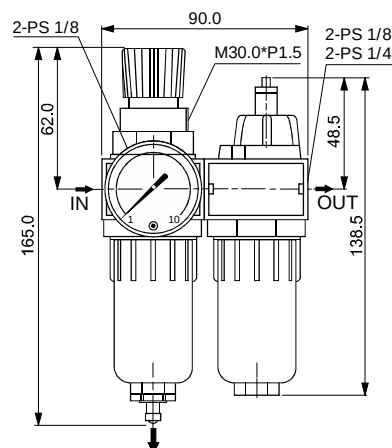
Air Filter+Regulator+Lubricator Connection(2 units)

FRL600A	Polycarbonate body
---------	--------------------

Specifications

Model	FRL600A-01	FRL600A-02
Port size	1/8(option)	1/4(standard)
Fluid	Air	
Construction	Diaphragm type regulator	
Body material	Polycarbonate	
Bowl material	Polycarbonate(standard), Anti-acid & alkali(option)	
Filtration	5µm(standard),40µm(option)	
Set pressure range	0.05~0.8 MPa	
Max. Inlet pressure(standard)	0.8 MPa	
Max. flow rate	1650 l/min	1850 l/min
Ambient and fluid temperature	-10j~60j(No freezing)	
Recommended lubricant	Turbin oil class 1(ISO VG32)	
Filter bowl capacity	35cc	
Lubricator bowl capacity	50cc	
Standard drain	Semi-automatic drain(below 0.05MPa)	
Net weight	560g	
Accessories	1 Gauge, 1 bracket, 4 screw, 1 plug	

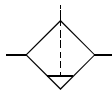
Dimensions



How to Order



Symbol



F200A — 02 N C H B K

Nil	Without bowl guard
K	With bowl guard

Nil	Without bracket
B	With bracket

Drain type	
Nil	Semi-auto.
H	Manual

Filtration	
Nil	5µm
C	40µm

Thread			
Nil	PS	N	NPT

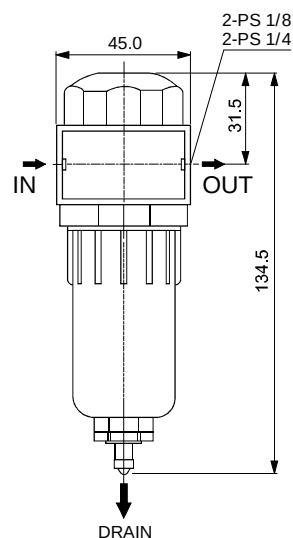
Port size			
01	1/8	02	1/4

Air Filter	
F200A	Polycarbonate body

Specifications

Model	F200A-01	F200A-02
Port size	1/8(option)	1/4(standard)
Fluid	Air	
Body material	Polycarbonate	
Bowl material	Polycarbonate(standard), Anti-acid & alkali(option)	
Filtration	5µm(standard),40µm(option)	
Set pressure range	0.05~0.8 MPa	
Max. Inlet pressure(standard)	0.8 MPa	
Max. flow rate	1900l/min	
Ambient and fluid temperature	-10~-60(No freezing)	
Recommended lubricant	Turbin oil class 1(ISO VG32)	
Filter bowl capacity	35cc	
Standard drain	Semi-automatic drain(below 0.05MPa)	
Net weight	245g	

Dimensions



Regulator Series NR200



How to Order



NR200 - 02 N B G

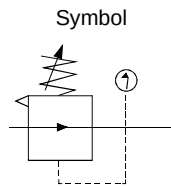
Nil	Without gauge
G	With gauge

Nil	Without bracket
B	With bracket

Thread			
Nil	PS	N	NPT

Port size			
01	1/8	02	1/4

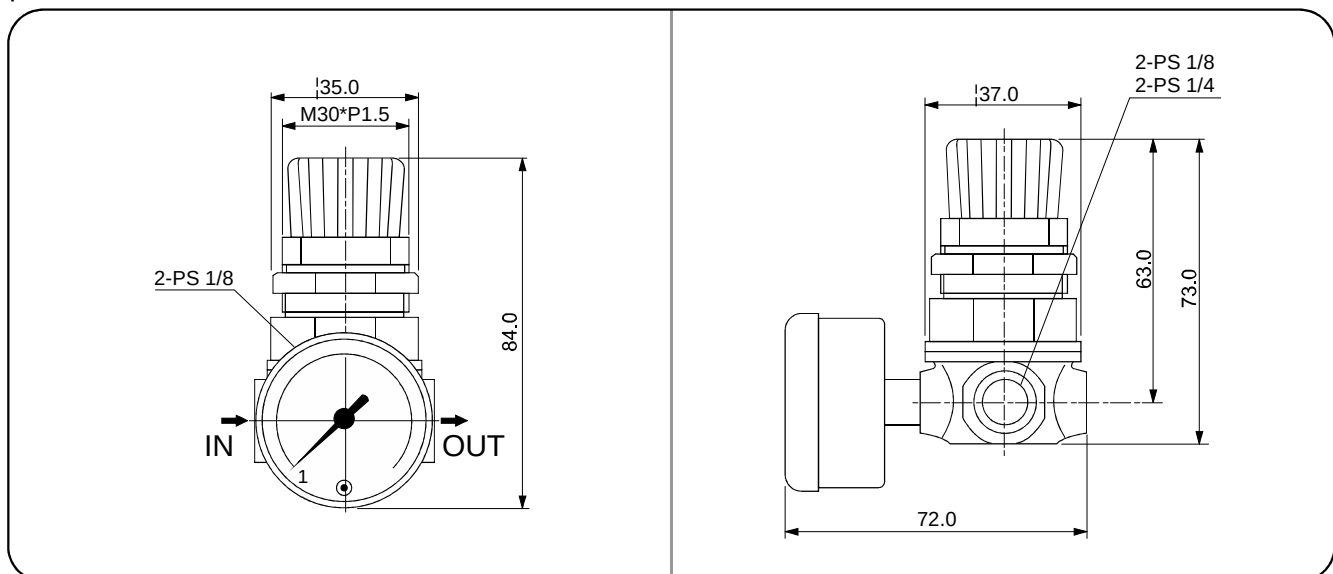
Regulator	
NR200	0.05~0.8 MPa



Specifications

Model	NR200	NR200LA	NR200L2
Port size	1/8, 1/4	1/8, 1/4	1/8, 1/4
Fluid	Air		
Construction	Diaphragm operation		
Body material	Aluminum die-cast		
Set pressure range	0.05~0.8 MPa	0~0.4 MPa	0~0.2 MPa
Max. Inlet pressure(standard)	0.8 MPa	0.4 MPa	0.2 MPa
Max. flow rate	500 l/min		
Ambient and fluid temperature	-10~60 (No freezing)		
Recommended lubricant	Turbin oil class 1(ISO VG32)		
Net weight	205g		

Dimensions



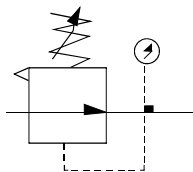
Regulator

Series R200

How to Order



Symbol



R200 - 02 N B G

Nil	Without gauge
G	With gauge

Nil	Without bracket
B	With bracket

Thread			
Nil	PS	N	NPT

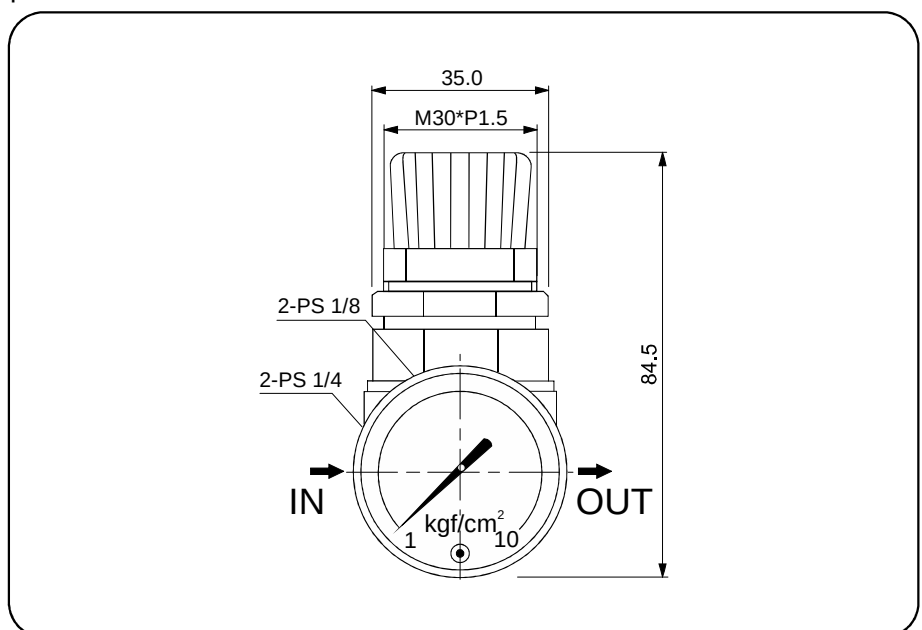
Port size	
02	1/4

Regulator

Specifications

Model	R200-02
Port size	1/4
Fluid	Air
Construction	Piston type regulator
Body material	Zinc die-cast
Set pressure range	0.05~0.99 MPa
Max. Inlet pressure(standard)	0.99 MPa
Max. flow rate	1546 l/min
Ambient and fluid temperature	-10j~60j(No freezing)
Net weight	205g

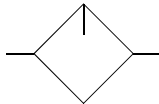
Dimensions



Lubricator Series L-200A



Symbol



How to Order

L-200A — 02 N B K

Nil	Without bowl guard
K	With bowl guard

Nil	Without bracket
B	With bracket

Thread

Nil	PS	N	NPT
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Port size

01	1/8	02	1/4
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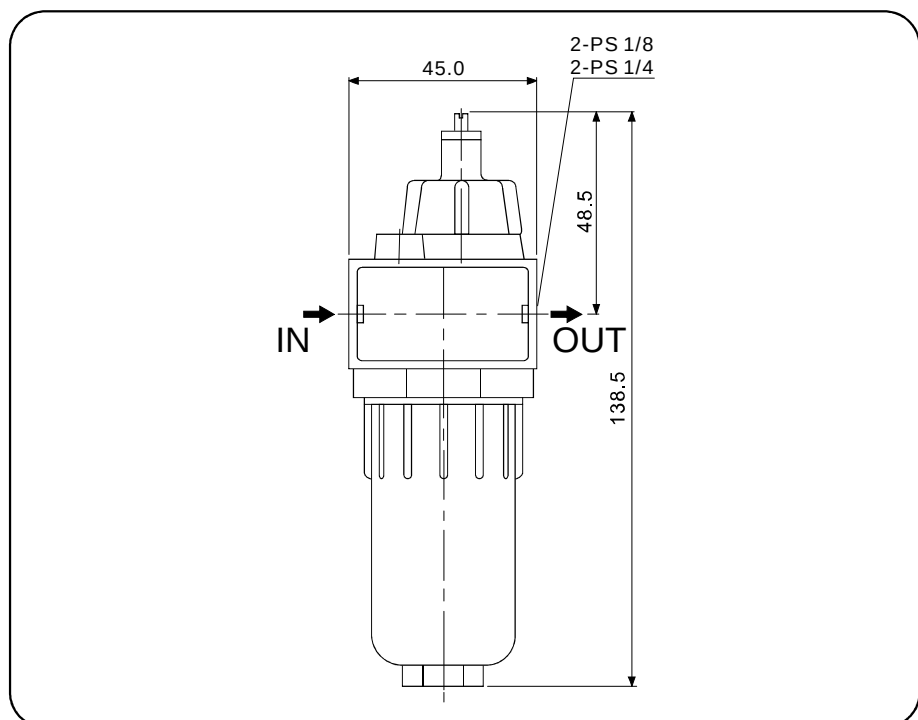
Lubricator

L-200A	Polycarbonate body
--------	--------------------

Specifications

Model	L-200A-01	L-200A-02
Port size	1/8(option)	1/4(standard)
Fluid	Air	
Body material	Polycarbonate	
Bowl material	Polycarbonate(standard)	
Filtration	5µm(standard), 40µm(option)	
Set pressure range	0.05~0.8 MPa	
Max. Inlet pressure(standard)	0.8 MPa	
Max. flow rate	2449l/min	
Ambient and fluid temperature	-10~60°C(No freezing)	
Recommended lubricant	Turbin oil class 1(ISO VG32)	
Lubrication bowl capacity	50cc	
Standard drain	Semi-automatic drain(below 0.05MPa)	
Net weight	165g	

Dimensions



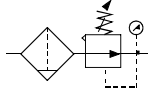
Air Filter + Regulator

Series FR-500A

How to Order



Symbol



FR500A — 02 N C H K

Nil	Without bowl guard
K	With bowl guard

Drain type

Nil	Semi-auto drain
H	Manual drain

Filtration

Nil	5µm	C	40µm
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Thread

Nil	PS	N	NPT
-----	----	---	-----

Port size

01	1/8	02	1/4
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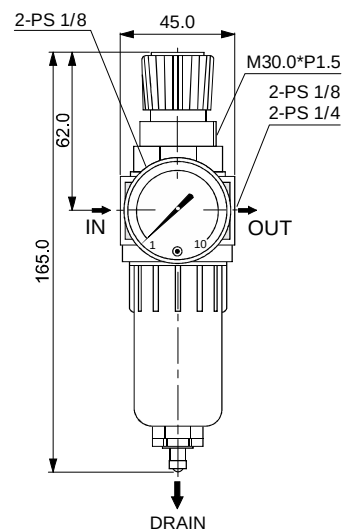
Air Filter + Regulator

FR500A	Polycarbonate body
--------	--------------------

Specifications

Model	FR500A-01	FR500A-02
Port size	1/8(option)	1/4(standard)
Fluid	Air	
Construction	Diaphragm type regulator	
Body material	Polycarbonate	
Bowl material	Polycarbonate(standard), Anti-acid & alkali(option)	
Filtration	5µm(standard), 40µm(option)	
Set pressure range	0.05~0.78 MPa	
Max. Inlet pressure(standard)	0.78 MPa	
Max. flow rate	1840l/min	1940l/min
Ambient and fluid temperature	-10j~60j(No freezing)	
Recommended lubricant	Turbin oil class 1(ISO VG32)	
Filter bowl capacity	35cc	
Standard drain	Semi-automatic drain(below 0.05MPa)	
Net weight	370g	
Accessories	1 Gauge, 1 bracket, 4 screw, 1 plug	

Dimensions



Air Filter + Regulator + Lubricator

Air Combination

Series YAC, YBC



How to Order

YBC 3000 - D



YAC

Drain type

Nil	Semi-auto Drain
M	Manual Drain
A	Auto Drain

* i Only for YB Series.

Port size

2000	G1/4	3000	G3/8	4000	G1/2
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Air Filter+Regulator+Lubricator

YAC	YA Series	YBC	YB Series
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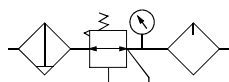


YBC

Specifications

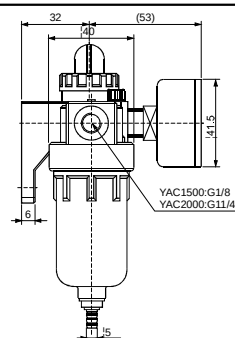
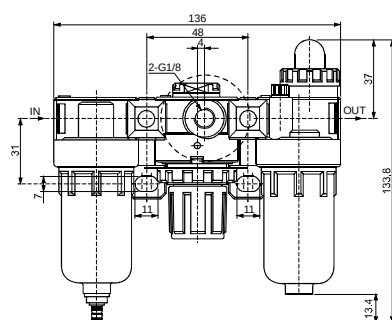
Model		YAC2000	YBC2000	YBC3000	YBC4000
Fluid		Air			
Port size		G1/4	G1/4	G3/8	G1/2
Filtration		40µm			
Set pressure range		0.05~0.85 MPa			
Max.operating pressure		0.95 MPa			
Proof pressure		1.5 MPa			
Ambient and fluid temperature		5~60℃			
Fluid bowl capacity		15 cc	60 cc		
Lubricator bowl capacity		25 cc	90 cc		
Recommended lubricant		Turbin oil class 1(ISO VG32)			
Weight		0.7 Kg	0.9 Kg		
Combination equipment	Air filter	YAF2000	YBF2000	YBF3000	YBF4000
	Regulator	YAR2000	YBR2000	YBR3000	YBR4000
	Lubricator	YAL2000	YBL2000	YBL3000	YBL4000

Symbol

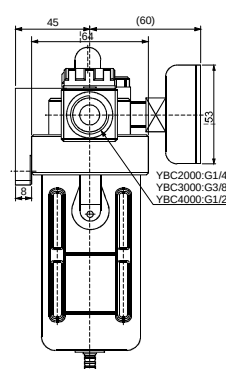
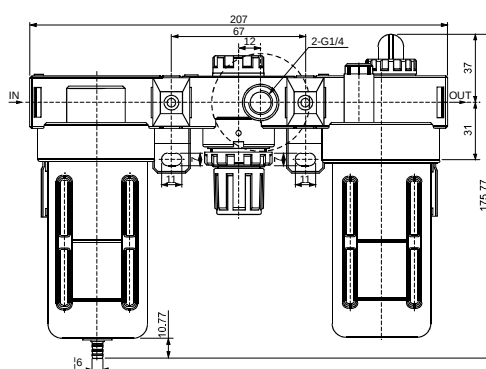


Dimensions

YAC



YBC



Air Filter + Regulator + Lubricator

Air Combination

Series YAFC, YBFC

How to Order

YBFC 3000 - D

Drain type

Nil	Semi-auto Drain
M	Manual Drain
A	Auto Drain

* iA; Only for YB Series.

Port size

2000	G1/4	3000	G3/8	4000	G1/2
------	------	------	------	------	------

Air Filter+Regulator+Lubricator

YAFC	YA Series	YBFC	YB Series
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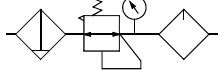


YAFC



YBFC

Symbol

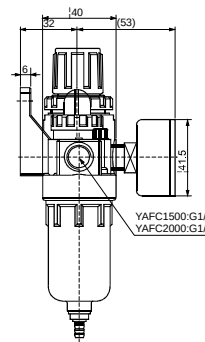
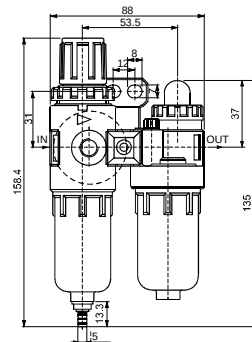


Specifications

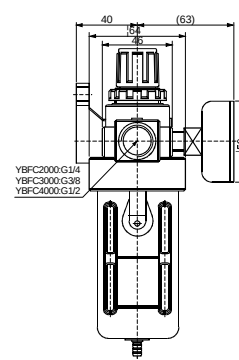
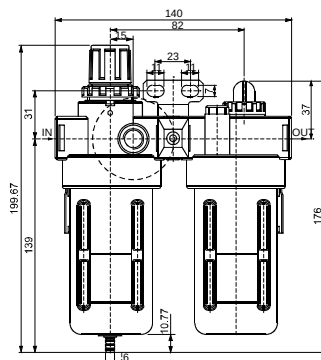
Model		YAFC2000	YBFC2000	YBFC3000	YBFC4000
Fluid		Air			
Port size		G1/4	G1/4	G3/8	G1/2
Filtration		40µm			
Set pressure range		0.05~0.85 MPa			
Max.operating pressure		0.95 MPa			
Proof pressure		1.5 MPa			
Ambient and fluid temperature		5~60℃			
Filter bowl capacity		15 cc	60 cc		
Lubricator bowl capacity		25 cc	90 cc		
Recommended lubrication		Turbin oil class 1(ISO VG32)			
Weight		0.7 Kg	0.9 Kg		
Combination equipment	Filter-Regulator	YAFC2000	YBFC2000	YBFC3000	YBFC4000
	Lubricator	YAL2000	YBL2000	YBL3000	YBL4000

Dimensions

YAFC



YBFC



Air Filter

Series YAF, YBF



How to Order

YBF 3000 - D

Drain type

Nil	Semi-auto Drain
M	Manual Drain
A	Auto Drain

* i A; Only for YB Series.

Port size

2000	G1/4	3000	G3/8	4000	G1/2
------	------	------	------	------	------

Air Filter

YAF	YA Series	YBF	YB Series
-----	-----------	-----	-----------

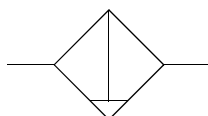


YAF



YBF

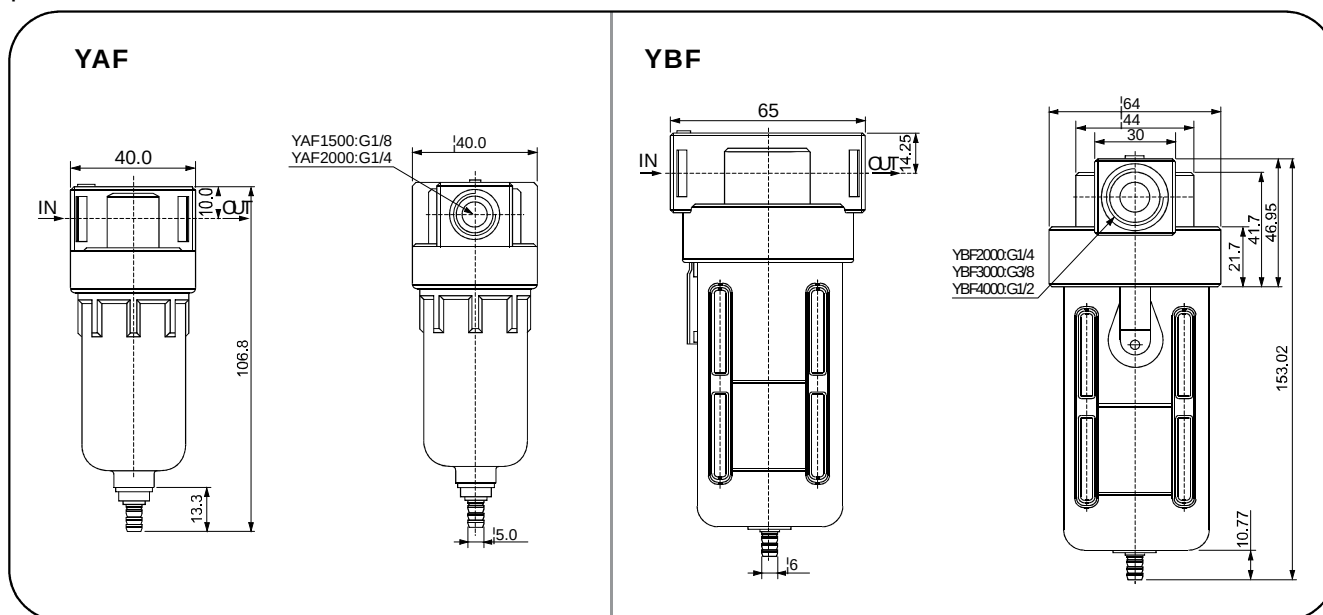
Symbol



Specifications

Model	YAF2000	YBF2000	YBF3000	YBF4000
Fluid	Air			
Port size	G1/4	G1/4	G3/8	G1/2
Filtration	40µm			
Max. operating pressure	1.0 MPa			
Proof pressure	1.5 MPa			
Ambient and fluid temperature	5~60°C			
Filter bowl capacity	15 cc	60 cc		
Weight	0.15 Kg	0.33 Kg		

Dimensions



How to Order

YBR 3000

Port size

2000	G1/4	3000	G3/8	4000	G1/2
------	------	------	------	------	------

Regulator

YAR	YA Series	YBR	YB Series
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YAR

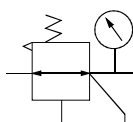


YBR

Specifications

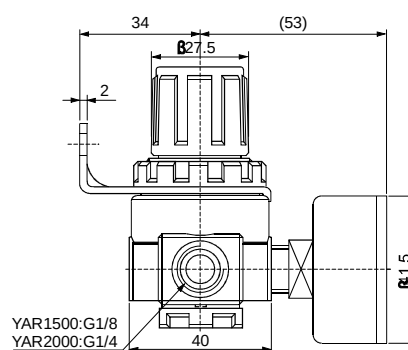
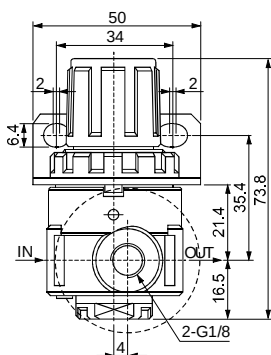
Model	YAR2000	YBR2000	YBR3000	YBR4000
Fluid	Air			
Port size	G1/4	G1/4	G3/8	G1/2
Set pressure range	0.05~0.85 MPa			
Max. operating pressure	0.95 MPa			
Proof pressure	1.5 MPa			
Ambient and fluid temperature	5~60°C			
Weight	0.20 Kg	0.23Kg		

Symbol

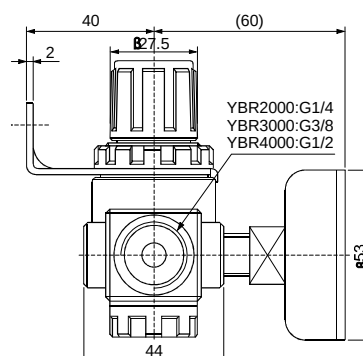
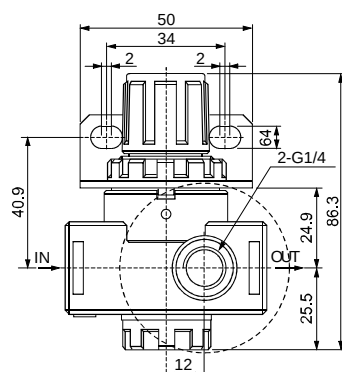


Dimensions

YAR



YBR



Air Filter + Regulator

Series YAFR, YBFR



How to Order

YBFR 3000 - D

Drain type

Nil	Semi-auto Drain
M	Manual Drain
A	Auto Drain

* iA Only for YB Series.

Port size

2000	G1/4	3000	G3/8	4000	G1/2
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Air Filter + Regulator

YAFR	YA Series	YBFR	YB Series
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YAFR

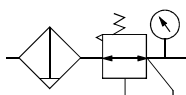


YBFR

Specifications

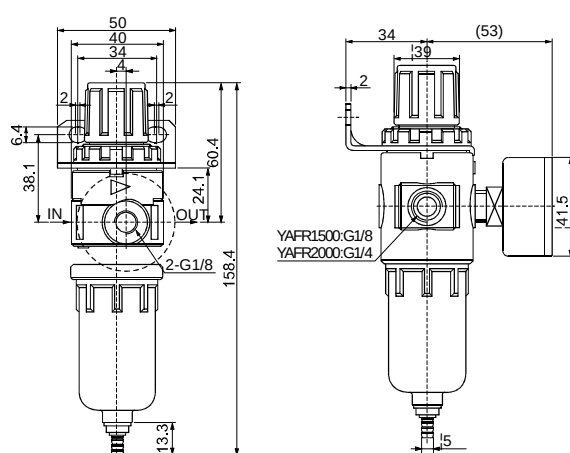
Model	YAFR2000	YBFR2000	YBFR3000	YBFR4000
Fluid	Air			
Port size	G1/4	G1/4	G3/8	G1/2
Set pressure range	0.05~0.85 MPa			
Max. operating pressure	0.95 MPa			
Proof pressure	1.5 MPa			
Ambient and fluid temperature	5~60°C			
Filter bowl capacity	15 cc	60 cc		
Weight	0.26 Kg	0.4 Kg		

Symbol

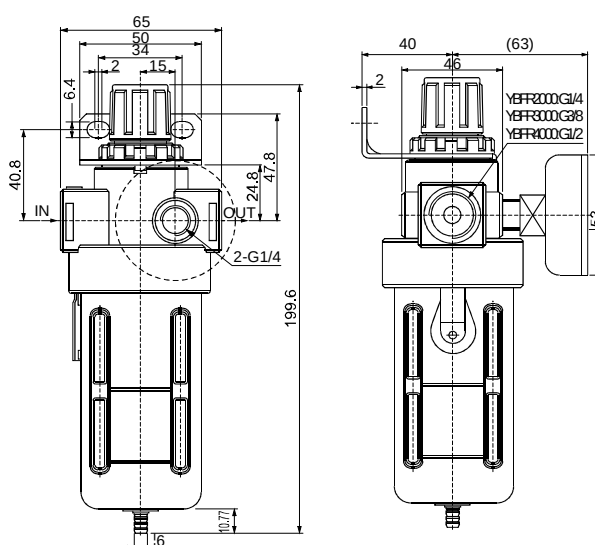


Dimensions

YAFR



YBFR



How to Order

YBL 3000

Port Size

2000	G1/4	3000	G3/8	4000	G1/2
------	------	------	------	------	------

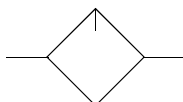
Lubrication

YAL	YA Series	YBL	YB Series
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Specifications

Model	YAL2000	YBL2000	YBL3000	YBL4000
Fluid	Air			
Port size	G1/4	G1/4	G3/8	G1/2
Proof pressure	1.5 MPa			
Ambient and fluid temperature	5~60j			
Recommended lubricant	Turbin oil class 1(ISO VG32)			
Lubricator bowl capacity	25 cc	90 cc		
Weight	0.17 Kg	0.25 Kg		

Symbol



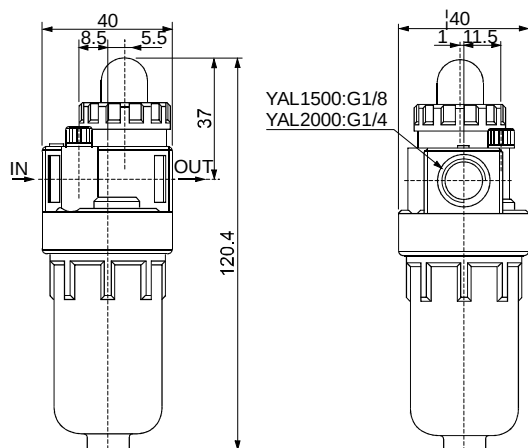
YAL



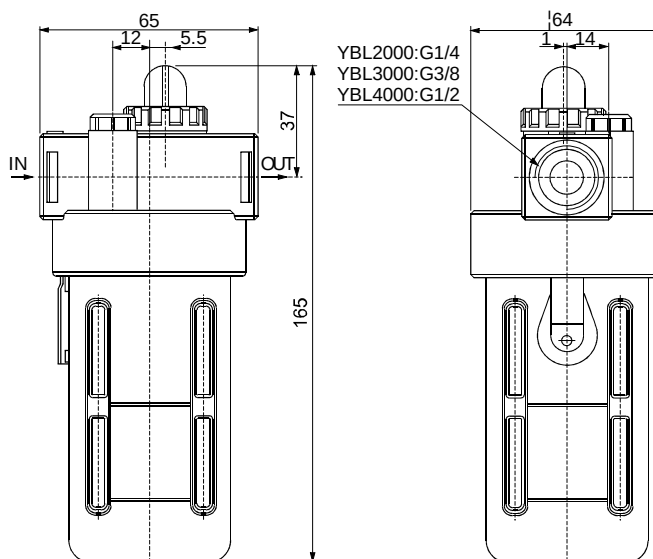
YBL

Dimensions

YAL



YBL



Air Filter + Regulator + Lubricator

Air Combination

Series SFC



How to Order

SFC – 200 –

Drain type

Nil	Semi-auto Drain
M	Manual Drain
A	Auto Drain

Port size

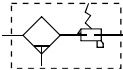
100	1/8PT	300	3/8PT
200	1/4PT	400	1/2PT

Air Filter + Regulator + Lubricator

SFC	S Series
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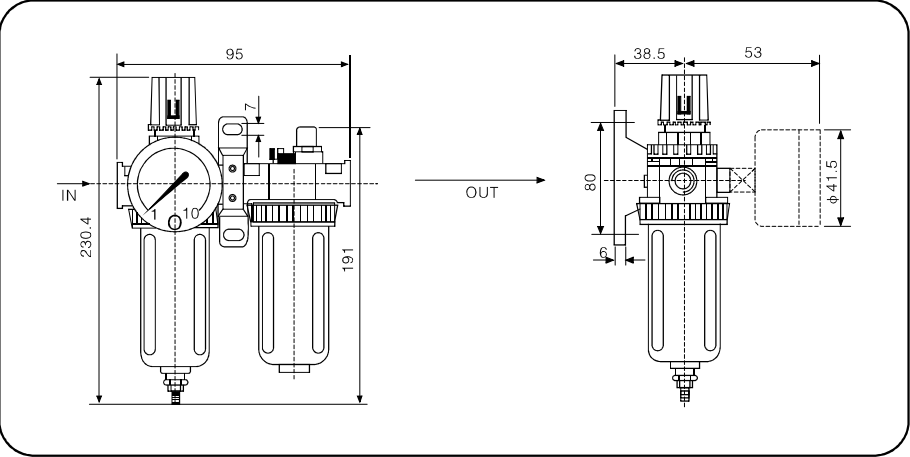
Symbol



Specifications

Model	SFC-200	SFC-300	SFC-400
Adapter diameter	1/4Rc	3/8Rc	1/2Rc
Press meter diameter	1/8Rc	1/8Rc	1/8Rc
Proof pressure	1.5 MPa		
Max.operating pressure	1.0 MPa		
Ambient and fluid temperature	5~60j		

Dimensions



AFF
AM
AMD
AD01,AD2
AC
AF
AR
AL
AW
UFRL
UFR/L
UF
UR
UL
UFR
FRL-700A
FRL-600A
F-200A
NR200
R200
L-200A
FR500A
YAC,YEC
YAC,YFC
YAF,YEF
YAR,YER
YAR,YBR
YAL,YEL
SFC
SFL,SFR

Lubricator Series SL

How to Order

SFL — 200

Port size

100	1/8PT	300	3/8PT
200	1/4PT	400	1/2PT

Lubricator

SFL	S Series
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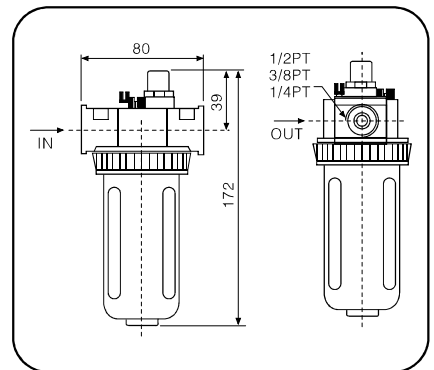
Symbol



Specifications

Model	SL-200	SL-300	SL-400
Adapter diameter	1/4Rc	3/8Rc	1/2Rc
Proof pressure	1.5 MPa		
Max. operating pressure	1.0 MPa		
Ambient and fluid temperature	5~60°C		

Dimensions



Air Filter + Regulator Series SFR

How to Order

SFR — 200

Port size

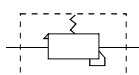
100	1/8PT	300	3/8PT
200	1/4PT	400	1/2PT

Air Filter + Regulator

SFR	S Series
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Symbol



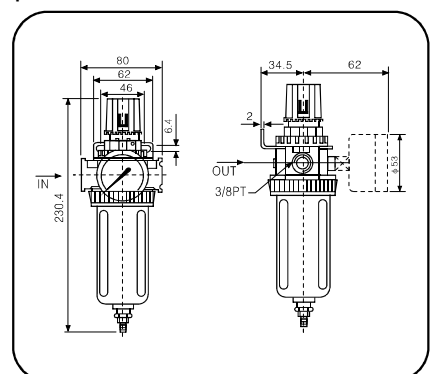
Operation indication

Fuelling under the condition of non-stop

Specifications

Model	SFR-200	SFR-300	SFR-400
Adapter diameter	1/4Rc	3/8Rc	1/2Rc
Pressure meter diameter	1/8Rc	1/8Rc	1/8Rc
Proof pressure	1.5 MPa		
Max. operating pressure	1.0 MPa		
Ambient and fluid temperature	5~60°C		

Dimensions



Bourdon Tube Pressure Gauge

Dia.40,50,63mm Acc.2,5



Dia 1-1/2_i & back connection



Dia 1-1/2_i & back connection & front flange



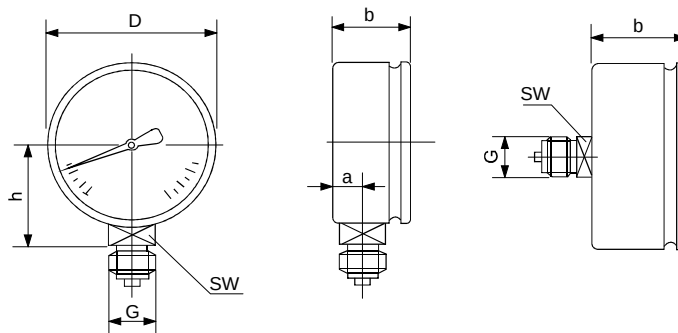
Dia 2_i & bottom connection



Dia 2-1/2_i & back connection & U-shape shelf

Dia.	40mm		50mm		63mm	
Dimensional Date	b=23 h=25	a=7.5 SW=11	b=28.5 h=33	a=9 SW=14	b=30 h=38	a=10,5 SW=14
Case	Steel-black, Option: plastic / stainless steel					
Measuring System	Brass, Option: St.St.					
Measure range	-1...160bar (psi, lbs, kg/cm²...)		-1...400bar (psi, lbs, kg/cm²...)			
Connection thread	Brass, G1/4 <i>i</i> , G1/8 <i>i</i> , NPT, BSPT... Option: St.St.					
Connection	Bottom, back, back excentre					
Lens	Plexiglas, Option: glass					
Dial	Aluminium-white					
Pointer	Aluminium-black					
Options	Bezel-ring front flange three-cornered ring with u-clamp-fixing				Bezel-ring front flange three-cornered ring with u-clamp-fixing, back flange, internal stationary red pointer, maximum pressure pointer	

i Overall Dimensions



Bourdon Tube Pressure Gauge

Dia.75,100mm Acc.1,6



Dia 4j& bottom connection



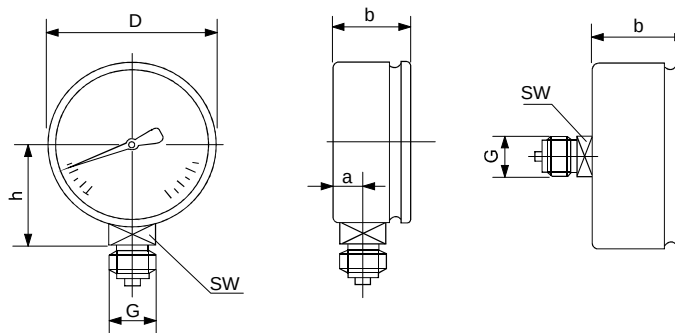
Dia 2-1/2j& bottom connection & back flange



Dia 4j& back connection & front flange

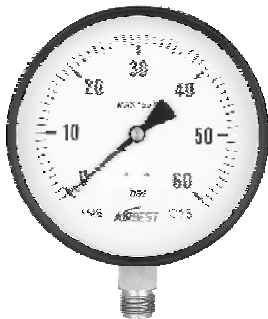
Dia.	75mm		100mm	
Dimensional Date	b=29 h=50	a=12 SW=17	b=36 h=61	a=14 SW=22
Case	Steel-black, Option: stainless steel			
Measuring System	Brass, Option: St.St.			
Measure range	-1...600bar (psi, 1bs, kg/cm ² ...)			
Connection thread	Brass, G1/2j, G3/8j, G1/4j NPT, BSPT... Option: St.St.			
Connection	Bottom, back G1/4j			
Lens	Plexiglas, Option: glass			
Dial	Aluminium-white			
Pointer	Aluminium-black			
Options	Bezel-ring front flange, back flange, internal stationary red pointer		Bezel-ring front flange, back flange, three-cornered ring with u-clamp-fixing internal stationary red pointer, maximum pressure pointer	

j Overall Dimensions



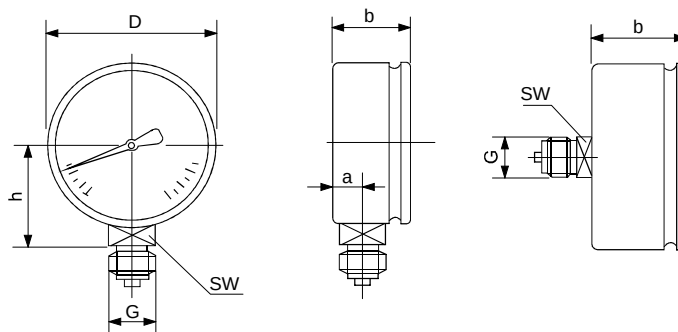
Bourdon Tube Pressure Gauge

Dia.150,200,250mm Acc.1,6



Dia.	150mm		200mm		250mm	
Dimensional Date	b=47 h=107	a=17 SW=22	b=49 h=136	a=17 SW=17	b=49 h=160	a=18 SW=17
Case	Steel-black with bayonet-ring Option: stainless steel (1.4301)					
Measuring System	Brass, Option: St.St.					
Measure range	-1...2500bar (psi, lbs, kg/cm²...)					
Connection thread	Brass, G1/2j, G3/8j, NPT, BSPT... Option: St.St.					
Connection	Bottom, back excentre					
Lens	Glass					
Dial	Aluminium-white					
Pointer	Aluminium-black					
Options	Front flange, back flange, three-cornered ring with u-clamp-fixing, internal stationary red pointer, maximum pressure pointer					

j Overall Dimensions



Bourdon Tube Pressure Gauge for Chemical Use

Dia.63,100,150mm Acc.1,6/1,0



Dia2-1/2; & full stainless steel



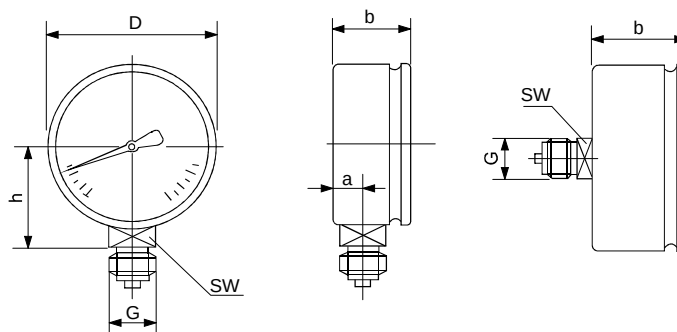
Dia 4; & electric contact



Dia 4; & full stainless steel

Dia.	63mm		100mm		150mm	
Dimensional Date	b=37.5 h=42.5	a=14 SW=12	b=50 h=79	a=18 SW=17	b=51 h=96	a=19 SW=17
Case	St.St.(1.4301)		St.St.with Bajonettring(1.4301)			
Measuring System	St.St.					
Measure range	-1...400bar (psi, lbs, kg/cm² ...)		-1...600bar (psi, lbs, kg/cm² ...)			
Connection thread	G1/4 _j ,G1/8 _j NPT; BSPT...St.St		G1/2 _j ,G1/4 _j NPT; BSPT...St.St			
Connection	Bottom, back excentre					
Lens	Glass					
Dial	Aluminium-white					
Pointer	Aluminium-black					
Options	Front flange, back flange, three-cornered ring with uclamp-fixing, internal stationary red pointer, maximum pressure pointer glyzerine-filling					

Overall Dimensions



Pressure gauges with diaphragm capsule

Dia.63,75,100,150mm Acc.1,6



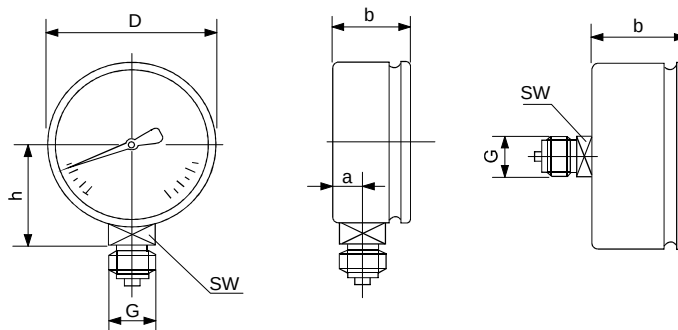
Dia3_i & stainless steel case & socket



Dia 6_i & brass socket

Dia.	63mm		75mm		100mm		150mm	
Dimensional Date	b=45 h=43	a=11 SW=14	b=55 h=69	a=12 SW=17	b=49 h=67	a=15.5 SW=22	b=59 h=93	a=17 SW=22
Case	Steel-black, Option: stainless steel		Steel-black with bezel-ring, Option: stainless steel		Steel-black with bayonet ring Option: stainless steel			
Measuring System	Brass, Option: St.St. (1.4571)							
Measure range	-1000...-250 mbar 0+25...+10000 mbar							
Connection thread	Brass, G1/8; G1/4; NPT, BSPT... Option: St.St.(1.4571)				Brass, G1/2; G3/8; G1/4;NPT, BSPT... Option: St.St.(1.4571)			
Connection	Bottom, back excentre							
Lens	Plexiglas, Option: glass		Glass					
Dial	Aluminium-white							
Pointer	Aluminium-black							

j Overall Dimensions



Bourdon Tube Pressure Gauge with Glycerine Filling

Dia.63,100,150mm Acc.1,6



Dia.63mm & stainless steel case & brass socket & oil filled



Dia 100mm & oil filled



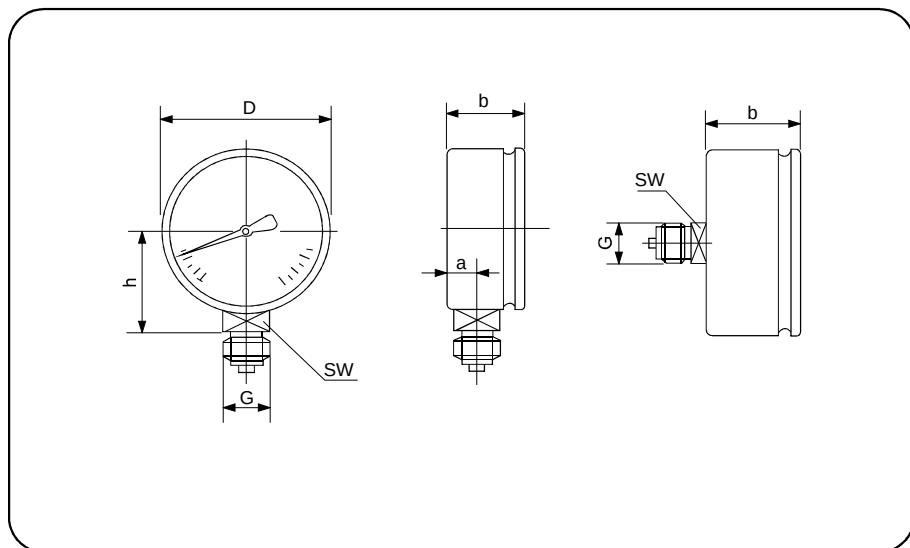
Dia 100mm & back connection & oil filled



Dia 150mm & oil filled & back flange

Dia.	63mm		100mm Crimped ring		100mm Bayonet ring		150mm	
Dimensional Date Case	b=29 h=41	a=9 SW=14	b=36.5 h=62	a=11 SW=22	b=48.5 h=67	a=15 SW=22	b=45.5 h=98	a=15 SW=22
	St.St.with wrap-up ring (1.4301)				St.St.with wrap-up ring (1.4301) Option: steel black			
Measuring System	Brass, Option: St.St. (1.4571)							
Measure range	-1...600bar (psi, 1bs, kg/cm²...)							
Connection thread	Brass, G1/4j, G1/8i, NPT, BSPT... Option: St.St. (1.4571)							
Connection	Bottom, back							
Lens	Plexiglas							
Dial	Aluminium-white							
Pointer	Aluminium-black							
Options	Front flange, three-cornered ring with u-clamp-fixing, back flange, internal stationary red pointer, maximum pressure pointer.				Back flange, internal stationary red pointer			

Overall Dimensions



Bourdon Tube Pressure Gauges-Safety Model

Dia.50,63mm Acc.2,5

Compound pressure gauges for sensitive measurement for mediums having a high viscosity or crystalizing mediums indication positive and / or negative pressure of fluids.



Dia 1-1/2; & back connection



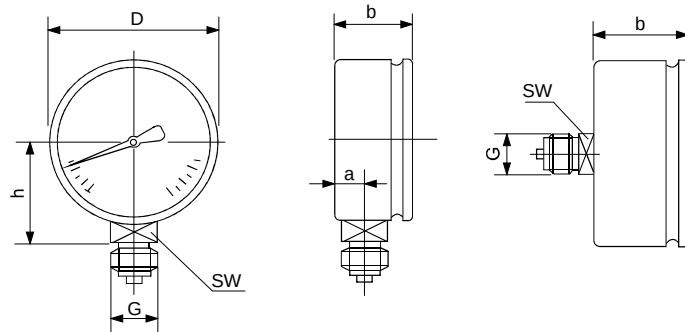
Dia 2; & bottom connection



Dia 2; & CO2

Dia	50mm		63mm	
Dimensional Date	b=28.5 h=33	a=9 SW=14	b=30 h=38	a=10.5 SW=14
Case	Steel brass coloured with blow-out back Option: St.St.			
Measuring System	Brass, Option: St.St.(1.4571)			
Measure range	-1...400 bar (psi, lbs, kg/cm ² ...)			
Connection thread	Brass, G1/4 _i , G1/8 _i , NPT.BSPT...Option: StSt.(1.4571)			
Connection	Bottom, back			
Lens	Macralon-unbreakable			
Dial	Aluminium-white			
Pointer	Aluminium-black			
Options	Bezel ring, front flange, cring ring		Bezel ring, front flange, three-cornered ring with u-clamp-fixing	

j Overall Dimensions



Ammonia pressure gauge

Series YA-100,150

Application Description

The ammonia pressure gauge can be used in measuring the pressure of the service medium which has no corrosion function to all of the carbon steel, stainless and solders like tin. Mainly used in measuring the pressure of the liquid or gas of the ammonia which will be concerned in fertilization manufacture and the refrigeration equipment.

Structure

The gauge is made up of measuring pressure system(involve connector, bourdon tube). Gear setting, pointer setting and outer case.

When the service medium act on the flexibility parts and make it move, with the help of the stick, magnified by the gear setting, and the pointer point it out on the dial.



Dia 4; & plastic case



Dia 6; & plastic case

Main Technology Data

Scale Range

Type	Scale range (bar)
YA-100	0~1;0~16;0~25;0~4;0~6;0~1;0~16;0~2.5;0~4;
YA-150	0~6;0~10;0~16;0~25;0~40;0~60;-0.1~0;-0.1~0.06;-1~0.15;-0.1~0.3;-0.1~0.5;-0.1~0.9;-0.1~1.5;-1~24

Accuracy:2.5,1.6

Environment condition: -40~70 is no more than 90%.a,relative humidit

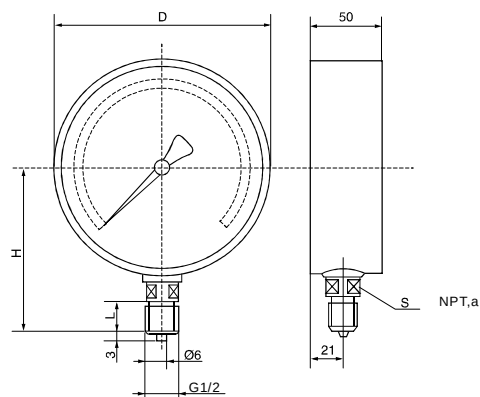
Temperature influence: when the environment temperature deviate from 20;5 is n more than 0.4%/10,the a additional error.

Weight:0.6kg(YA-100) 0.9kg(YA-150)

Overall Dimensions

Unit:mm

Type	D	H	L	S
YA-100	100	87	20	17
YA-150	150	117		



Ammonia pressure gauge

Series YA-100,150

Application Description

This gauge mainly used in measuring the pressure of the liquid pressure system or the gas jar on the engine, also can measure two same pressure or two different pressure of the service medium at the same time which have none-corrosion, non-crystallized, non-solidified whih copper alloys, plumbum-stin alloys welding materials.



YZS-102

Structure

This gauge is made up of two autocephaly measuring and pointing system.

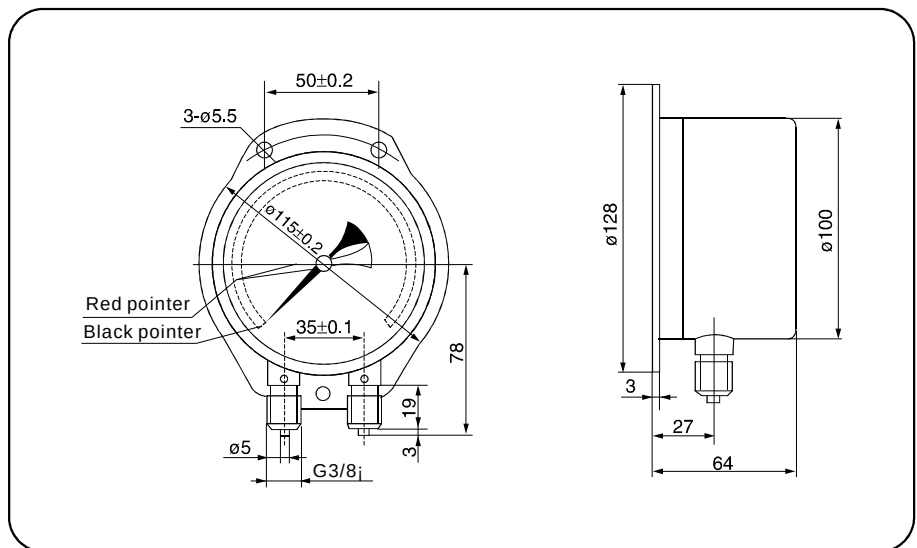
The gauges work base on flexibility parts(the flexibility bube in the measuring system) characteris change.It's means that, the media's pressure make the tube moving, with the stick and gear help. Sending and making it bigger, then the pointer point it out on the dial.

Main Technology Data

- Accuracy:1.6
- Scale range:0-1000;1200;1600;2500KPa,mbar.
- Environment condition:5~60, relative humidity is no more than 80%.
- Temperature influence: when the environment temperature deviate from 20, the additional error is no more than 0.4%/10.
- Weight:0.7kg

Overall Dimensions

Unit:mm



Theca pressure gauge

Series YPF

Application Description

This gauge is suited for measuring the pressure of all kinds of liquid with some corrosion, non-solidified or non-crystallized.

The material of theca can be selected when the corrosion of the service medium is concerned. Outer case is made of stainless steel, and can be used in corrosive environment.



YPF-150A



YPF-100B-F



YPF-100B

Structure

This gauge is made up of the measuring system (involve connector, flange and theca), gear setting, point setting, and outer case.

When the service medium pressure act on the flexibilty parts (theca), and make it moving, with the stick help, sending and making it bigger, then the pointer point it out on the dial.

Main Technology Data

Scale range accuracy and weight

Type	Scale range(bar)	D1
YPF-100A	0~6, 0~1, 0~16, 0~25, 0~4, 0~6, 0~1, 0~16, 0~25, -1~0, -1~6, -1~15, -1~3, -1~5, -1~9, -1~15, -1~24	85
YPF-100B		115
YPF-100B-F		85
YPF-150A		115
YPF-150B		160
YPF-150B-F	0~1.6, 0~2.5, 0~4, 0~6, 0~10, 0~16, 0~25, 0~40*, -1.6~0, -2.5~0, -4~0, -6~0, -10~0, -16~0, -25~0, -40~0*, -0.8~0.8, -1.2~1.2, -2~2, -3~3, -5~5, -8~8, -12~12, -20~20*KPa	160
YPF-100B		160
YPF-100B-F		160
YPF-150B		160
YPF-150B-F		160

*0~40, -40~0, 20KPa The size of pressing Area is D1 and the diameter is 85

Accuracy: 2.5

Environment condition: -40~+70, relative humidity is no more than 90%.

Temperature influence: when the environment temperature deviate from 20, the additional error is no more than 0.04%.

Working positon: installed vertically

Outer case protection grade: Ip64

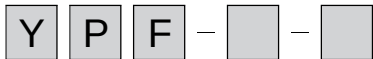
The materials of the measuring system and the main accessories

Type	Measuring system			The material of the case
	Theca	Flange connector	Gasket	
YPF-100A YPF-150A	Cr 15Ni7Mo (PH15-7Mo) 316L(j25Kpa)	1Cr18Ni9	NBR	Cast Aluminium
YPF-100B YPF-150B			PTFE	1Cr18Ni9
YPF-100BF YPF-150BF				

Theca pressure gauge

Series YPF

Model Medns



Type

A	Diaphrangm pressure gauge, NPT1/2, G1/2, the outer thread of socket.
B	Full stainless steel diaphragm pressure gauge, NPT1/2, G1/2, the outer thread of socket.
B-F	Diaphrangm pressure gauge with flange connection,25-4.0HGJ female face flange.

Cass outer diameter

100	100mm	150	150mm
-----	-------	-----	-------

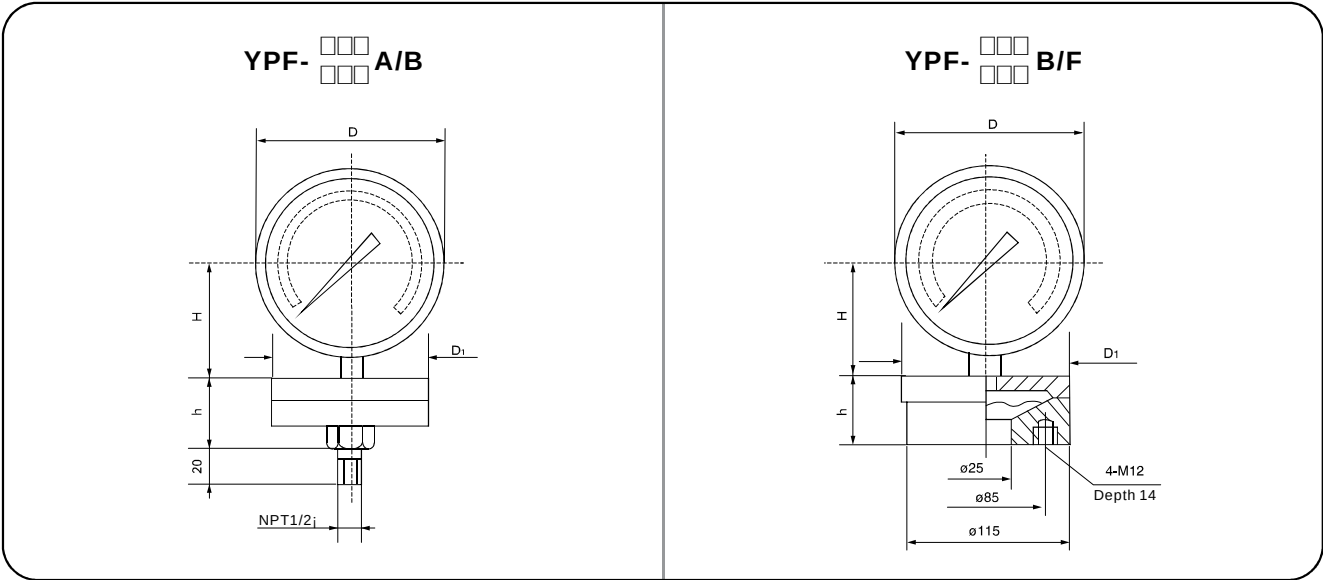
Corrosion-resistance

Diaphragm

Pressure gauge

Overall Dimensions

Unitmm



	YPF-100A	YPF-100B	YPF-100B-F	YPF-150A	YPF-150B	YPF-150B-F
D	100	110	110	150	160	160
H	57	57	57	80	80	80
h	42	42		43	43	

Diaphragm pressure gauge

Series YTP

Application Description

To enlarge the using range of all kind of the universal pressure gauge, and make it suited for measuring the pressure of the service medium which is high corrosive and easily crystallized, or the medium which has floating solid. And in order to prevent some service medium from entering the universal pressure gauge or to be easy for clear the place where the precipitation is resisted, there must have a diaphragm pressure gauge which is made up of a diaphragm and a universal pressure gauge.

The diaphragm gauge is mainly used in oil industry, chemical industry, pharmacy industry and so on.

Structure

The diaphragm pressure gauge is made up of general pressure gauge and the different structure diaphragm to be as a airproof system, and the pressurized liquid is filled. When the service medium act on the theca and make it move, the pressurized liquid is compessed. And the flexibility parts will be moved caused by the instinctive character of the pressurized liquid and the pointor point it out on the dial. And when the rigidity of the diaphragm is small enough, the pointing measurement is nearly the same as the service medium pressure.



YTP-100MG

System Structure

General type pressure gauge



Other type pressure gange



Electric contact pressure gauge



Inductance pressure ansmitter

Connector

Connecting directly



Radiator(SR)



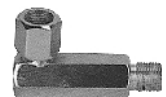
Damper(ZN)



Hard connector(YL)



Soft connector(RL)



Angle shape connector(GL)

Diaphragm isolator



Open type femoleface(MF)



I shape(MG)



Thread type(ML)



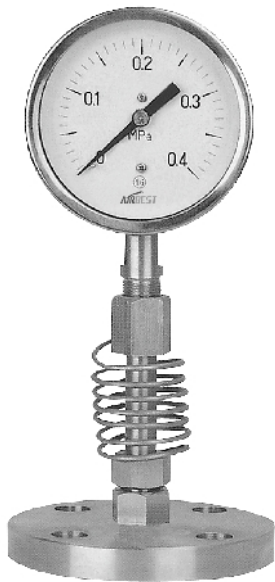
Ferrule type(MC)



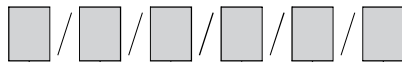
Nut type(MN)

Diaphragm pressure gauge

Series YTP



Model Means



Flange standard code

Measure range

Diaphragm materials

Isolator code name of the diaphragm and material

A	Carbon steel	
B	1Cr18Ni9	316;316L;316+F4

Connector code name

Instrument type of common use pressure gauge

Type Expression Example

Mark1: Y-100B/SR/MF(A)/316/4MPa/50-4.0HGJ46

the instrument in common use is Y-100B stainless steel manometer, connect the form as SR heat dissipation type, adopts widening open type protruding pieces of flange, it is the carbon steel to isolate the apparatus material, the diaphragm material is 316 stainless steel, measure range 0-4MPa, flange standard 50-4.0.

Mark2: YSG/2/Z/MG(B)/HA/1MPa/20-4.0HGJ47

the instrument in common use is YSG-2 inductance pressure changer, connect the form as being direct, adopt I-shape flange MG, the material of isolator (flange) is 1CR, the diaphragm material is the Hastelloy, measures range 0-1MPa, flange standard 20-4.0.

Theca Setting Flange Dimensions

1. Opening type convexity flange

Unit:mm

code	pressure range (bar)	recommlend flange a standard code	size female face flange (mm)							size picture
			D	K	d	f	L	C	B	
MF1	40	JIS-10/20K 50A	155	120	100	3	19	18	50	picture one
	40	50-1.0/4.0HGJ46	160	125	100	3	19	18	50	
	40	ANSI-2B 150lb	152	121	92.1	3	19	18	25	
	40	ANSI-2B 300/100lb	165	127	92.1	3	19	18	25	
	60~100	25-10.0 HGJ47	125	89	50.8	7	20	20	25	picture two
	60~100	50-10.0HGJ47	165	127	92.1	3.5	20	26	50	
MF	160~250	20-25.0 HGJ53	130	89	43	7	22	20	25	picture three
	40	25-4.0 DIN	115	85	65	3	M12	26	25	

We could manufacture the flange according to customer's special requirements.

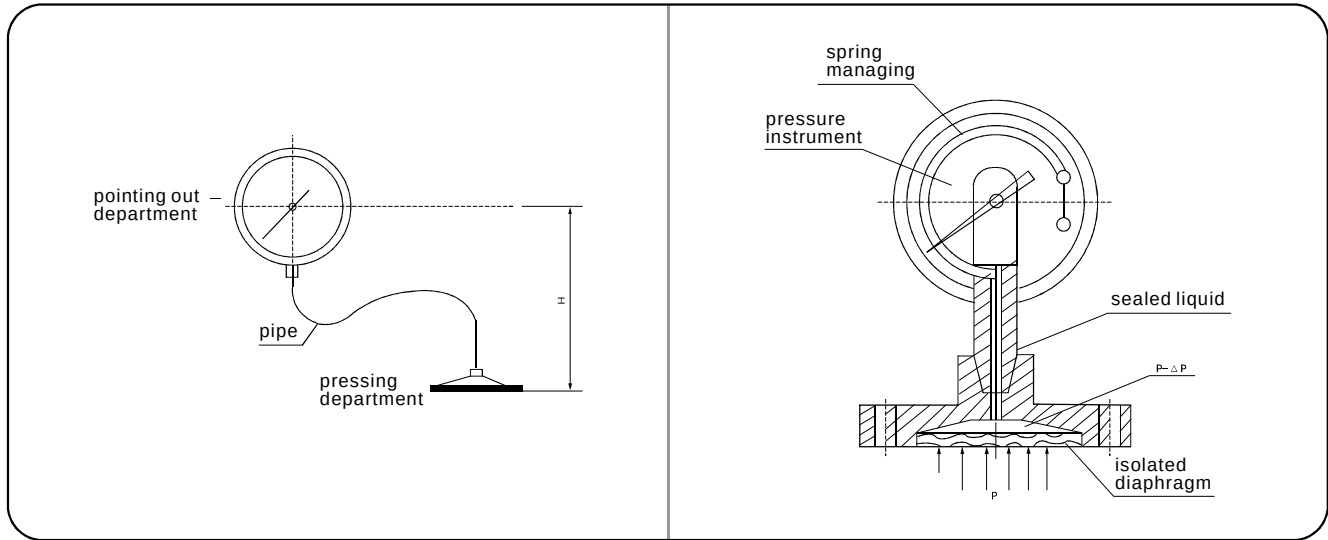
Diaphragm pressure gauge

Series YTP

Main Technology Data

The temperature character of the diaphragm pressure gauge. Because the pressurized liquid was filled in the diaphragm pressure gauge as the medium which send the pressure, the temperature influence of the diaphragm pressure gauge is relative with the expansion coefficient of the pressurized liquid, the rigidity of the low measuring range the more than $0.1\%/j$. So the temperature influence of diaphragm pressure gauge is made up of the universal general pressure gauge and temperature influence of the pressure burdened part of the diaphragm.

The liquid level of the diaphragm pressure gauge. Especially for the diaphragm pressure gauge which attached the soft connector tube, the position of the pressure burdened part of the theca and the universal pressure gauge is not at the same level and will generate the influence of the j_p . Please be attention when accurately measuring.



Diaphragm material: OCr17Ni12M02(316)

Monel: Gu30Ni70, Hastelloy G276, Tantalum, F4

Flange materials: AISI316, AISI+PTFE

Sealing gasket materials: NBR, Viton, Silicon rubber.

The anti-corrosive character of the pressure gauge.

The anti-corrosive character of the pressure gauge will be assured by selecting the suitable theca which touch with the service medium, flange and gasket.

The choice of the pressurized liquid

To make the theca pressure gauge reliable and safe, the pressurized liquid should be selected according the different use.

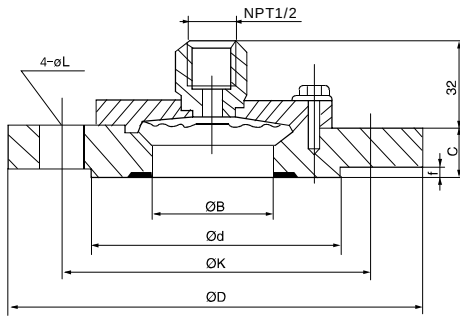
sealed liquid	temperature range of pressing department	proportion (g/cm ³)	coefficient of expansion of body(1/j)	use
silicon oil of high viscosity	-10~200j	1.07	$0.95j10^{-3}$	hight temperature using
silicon oil of low viscosity	-30~100j	0.94	$1.08j10^{-3}$	generally use
glyerine aqueous solution	-5~100j	1.27	$0.61j10^{-3}$	for food
vegetable oil	-5~100j	0.93	$1.03j10^{-3}$	for food
fluorine oil	-30~150j	1.93	$0.75j10^{-3}$	hydrogen, oxygen

Diaphragm pressure gauge

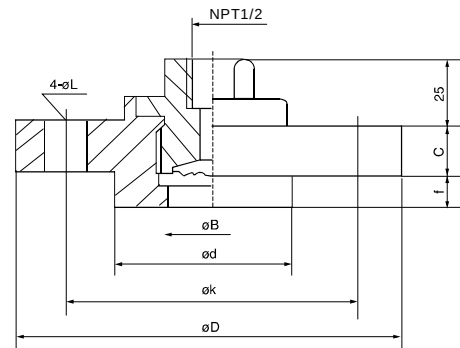
Series YTP

2;I-shape of protruding pieces of flange [code MG] quantity cheng have limit: ;4MPa

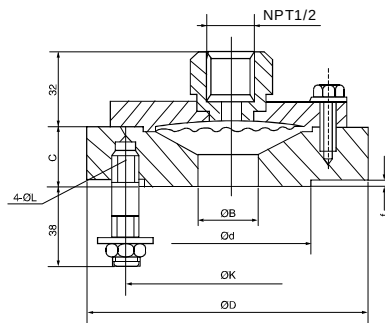
Unit:mm



Picture one (pressure: ;40bar)
[code MF1]

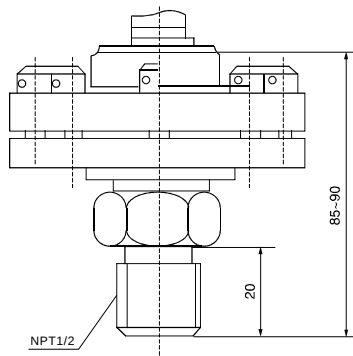


Picture two (60bar; ;250bar)
[code MF1]



Picture three (p;40bar)
[code MF]

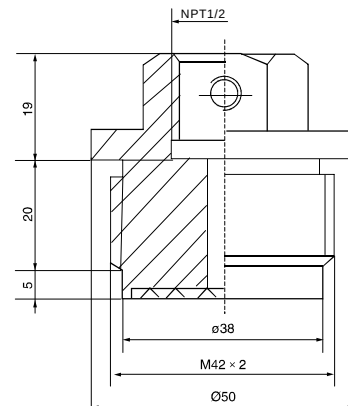
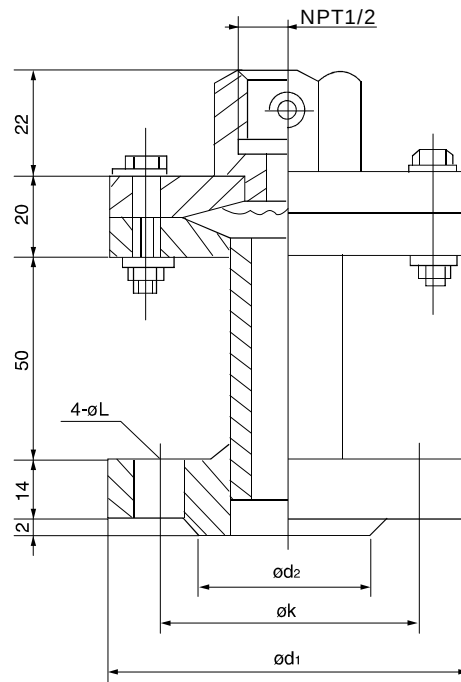
3. Screw thread connector type [ML]
quantity cheng have limit: ;600 bar



4. Bolt type theca diaphragm [code MZ]

measure range:1~250bar

diaphragm and diaphragm seat material: 0Cr17Ni12Mo2£316£



Diaphragm pressure gauge

Series YTP

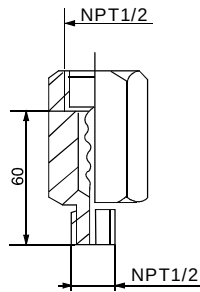
- 5. Compressed type diaphragm isolator [code MC]
- 6. Nut type diaphragm isolator [code MN]
- 7. Rectangular flange diaphragm isolator [code MH]

Attention: 5, 6, 7 see the page of the high pressure diaphragm pressure gauge.

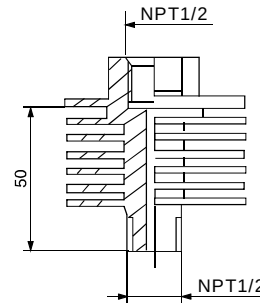
Overall Dimensions

Unit: mm

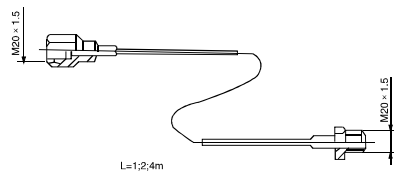
Damper device [ZN] 1Cr18Ni9



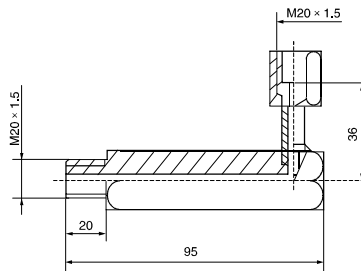
Radiator [SR] copper plate the nickel



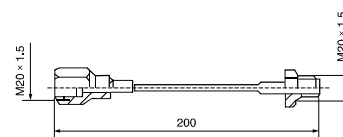
Soft pipe connector [RL] 1Cr18Ni9



Angle shape pipe connector [GL]



Hard pipe connector [YL]



Hygeian diaphragm pressure gauge

Series YTP

Application Description

This gauge is made up of the universal pressure gauge and the diaphragm as to a systemic diaphragm pressure gauge. And it is easily dismantled, not easy to be dirtied, easy to be cleaned, and is reliable and safe. Also it can meet the request of the GMP in the pharomic manufacture. This gauge is widely used in the medicine industry, food industry, drink industry, water processing industry which have the request to the hygiene in the technical processing.



Dia 4; & hygeian diaphragm



Dia 2-1/2; & hygeian diaphragm

Main Technology Data

Measuring range and type expression

Type		Form		The up limit of the measuring range (bar)
Match with the antivibration manometer	Match with the stainless steel pressure gauge			
YTN-63/MC	Y-63B/Z/MC	MC	caliper type	6~25 (flange 1 1/2;)
YTN-100/MC	Y-100B/Z/MC			4~25 (flange 2;)
YTN-100/MN	Y-100B/Z/MN	MN	nut type	4~25
YTN-100/MH	Y-100B/Z/MH	MH	rectangular flange(the quality machine is used)	10~60

Attention: consumer can select other type universal pressuere gauge, please consult with us when order it.

The connection type of the pressure gauge and the theca setting also can be select. Please consult with us when order it.

The corrosive character of the theca pressuge gauge.

The corrosive character of the theca pressure gauge can be assured through selecting the suitable theca, the flange and the material of the gasket.

The choice of the pressurized liquid.

To make the theca pressuge gauge reliable and safe, the pressurized liquid should be selected according the different use.

The flange dimensions of the theca setting.

Diaphragm material: OCr17Ni12M02(316)

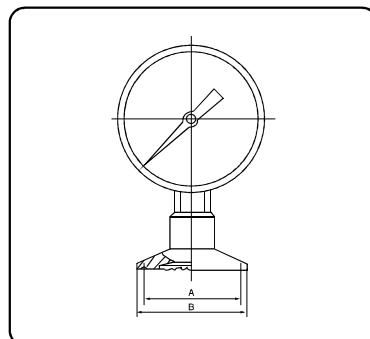
Monel: Gu30Ni70, Hastelloy G276, Tantalum, F4

Flange materials: AISI316, AISI+PTFE

Sealing gashetnaterials: NBR, Viton, Silicon rubber.

Diphragm device flange

1. Caliper type diaphragm isolator [code MC]



Unit:mm

size of flange	A	B
1 1/2;	43.5	50.5
2;	56.5	64.0

Free(accord with ISO-2852 standard)

¢ caliper 1 1/2;2;

¢ tube connection 1 1/2;2;

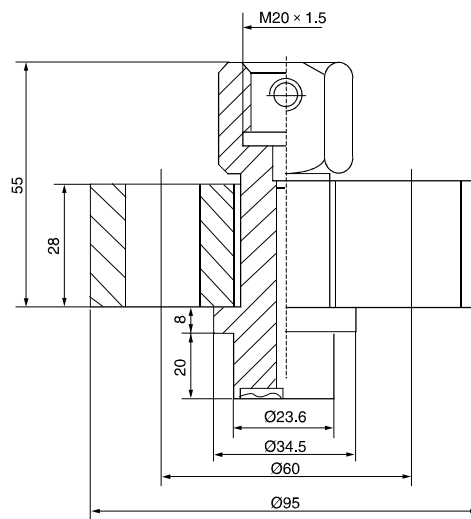
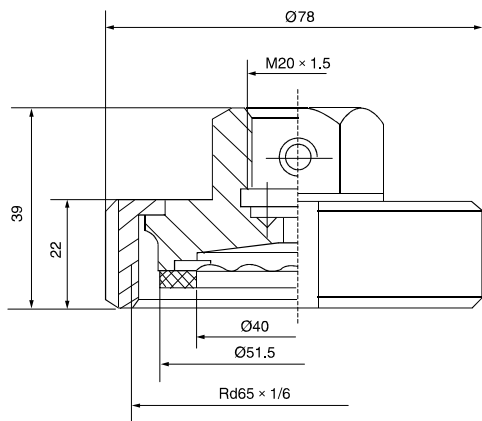
係sealed washer(the material is silicon rubber and PTFE)

Hygeian diaphragm pressure gauge

Series YTP

2. Nut type theca diaphragm [code MN]
the diaphragm and diaphragm seat
material: 0Cr17Ni12Mo2£316£

3. Rectangular flange theca diaphragm [code MH]
the diaphragm and diaphragm seat
material: 0Cr17Ni12Mo2£316£



Stainless Steel Differential Pressure Meter

Series CYW-50B



Dia 6½ double pointer

Application Description

CYW-152B and CYW-153B stainless steel differential pressure meter (thereinafter it calls meter for short) apply to measure the various liquid or gas medium parameter i.e. differential pressure and flux, in the technics process of chemical industry, chemical fibre industry, metallurgy, electric power and nuclear power, etc. The whole structure of the meter is adopted stainless steel among them the measuring system (double corrugation pipes and connecting parts), conducting system (including the joint, meatus, etc.) are made of the special type austenitic stainless steel which has strong resistance to corrosion and environmental etching. The structure of the meter has the advantages of small volume, light weight, good stability, long useful life, original appearance, strong applicability because of the logical design and advanced technics. The junction forms of joint have parallel type (can directly connect with triple valve group) and tilted type which can meet various demands.

Structure

The meter structure is adopted double corrugation pipes, i.e. The two corrugation pipes are respectively installed symmetrical position in I-shaped bracket. The upper part and lower part of the bracket is respectively free end and fixed end. There is spring slice between them. The two corrugation pipes are parallel, which connect with high and low pressure junction on the shell through the meatus. The gear transmission device is installed on the fixed end of the bracket and connects with free end through drag rod. The metric panel is installed on gear transmission device directly.

The working principle of the meter: for the induction component adapted the two same corrugation pipes, the force caused by the identical medium will act respectively on the free end and the two sides of the spring slice will not bend under isodynamic action. Therefore, the bracket will remain original position, the gear transmission device will not move, the finger will point to zero.

When pressed on different force (generally the high pressure end will higher than the lower one), the force upon the two corrugation pipes will be different. The pipes will displace and drive the gear transmission device transmit and magnify. Finally, the finger will indicate the differential pressure value of the two.

Main Technology Data

1. The measuring range of the differential pressure, general working pressure, precision grade and dimension of the junction screw thread.

The measuring range of the differential pressure		General working pressure		Accuracy	Connection dimension
0~10	KPa	60	KPa	2.5	M20½1.5 NPT □/ □ G 1/2
0~16		100			
0~25		160			
0~40		250			
0~60		400			
0~100		600			
	bar	10	bar		
		16			
		25			
		40			
		60			
		100			
		100			

2. Conducting system and shell material

Ports name	Material code
Connector pipe	OCr17Ni12Mo2(316)
Bellow pipe	OOCr17Ni14Mo2(316L)
Case, cover, ring	OCr18Ni9(304)

3. Appearance and installation dimension: see chart 1, chart 2, and chart 3.

4. Using environmental temperature: -40-70℃

5. Anti-oscillation of the working environment: V.H 3 grade

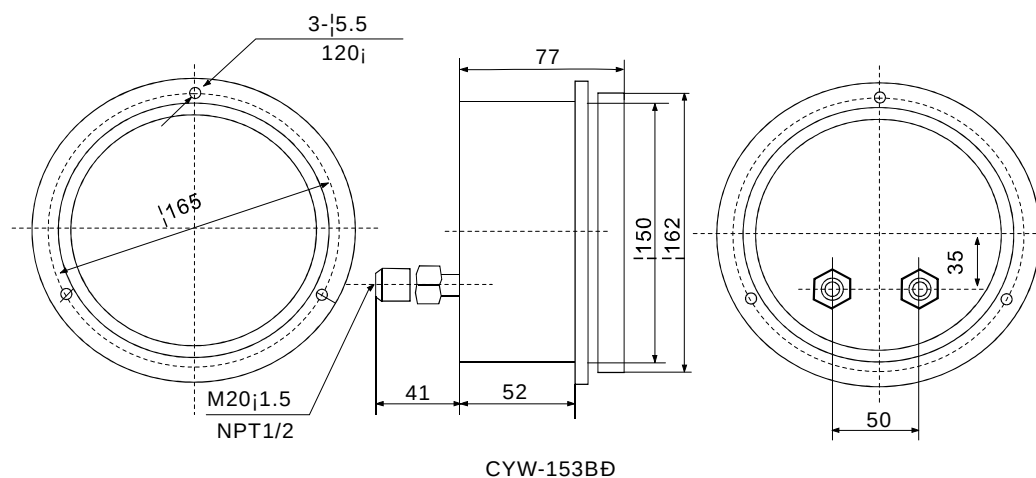
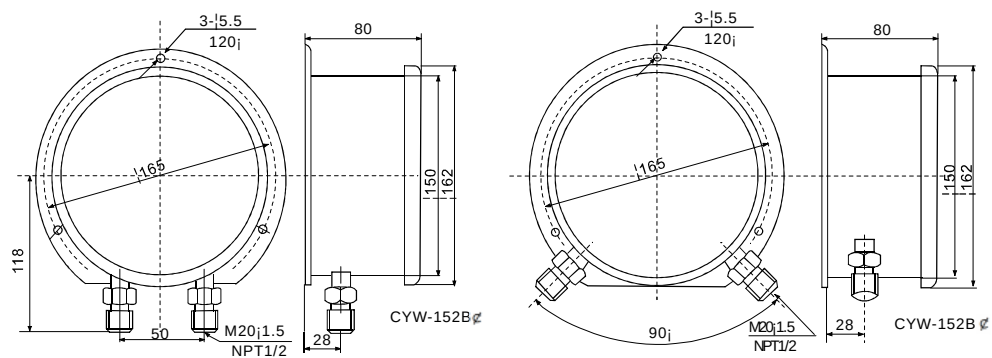
6. Weight: about 1.5Kg

7. Protection grade of the meter shell: Ip54

Stainless Steel Differential Pressure Meter

Series CYW-50B

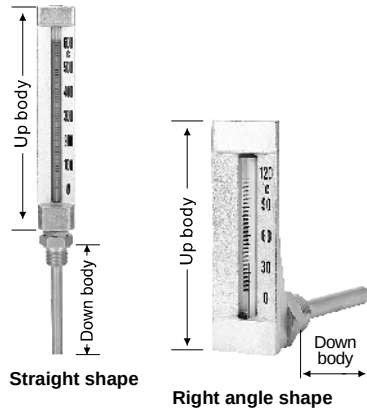
8. The technique data of the meter measure up the enterprise standard Q/YXBM831-1997 stainless steel differential pressure meter



Machine Glass Thermometer

Dia.110,150,200

Thermometers for very precise measurement indicating negative and / or positive Temperature.



Length	110mm;30mm	150mm;36mm	200mm;36mm
Case	Alu-V-form brass-zinc-coated		
Measuring System	brass		
Measure range	-60...+600; Option F		
Connection thread	brass G1/4; G1/2; NPT; BSPT... Option: St.St.(SS 316) Thermowells		
Connection	bottom, back, angle 90;		
Fluid container	glass		
Fluid	blue filling, ab 200; quick silver		
Stem	45mm, 63mm, at inquiry		

Modifications are possible according our technical requirements.

Special execution according to customer's requirements possible.

Bil-Metall-Thermometer

Dia.63,80,100,150 Acc.1,6



Thermometers for general measurement of positive and / or negative temperature.

	63mm	80mm	100mm	150mm
Case	Steel-chrome-plated, Option: St.St			
Measuring System	Brass, Option: St.St.(SS316)			
Measure range	-60...+600; Option F			
Connection thread	Brass, G1/4; G1/8; NPT, BSPT... Option: St.St (Ss316)			
Connection	Bottom, back centre			
Lens	Glass			
Dial	Aluminium-white			
Pointer	Aluminium-black			
Ring	Steel-chrome-plated			
Options	Front flange			
Stem	45mm, 63, at inquiry			

Modifications are possible according our technical requirements.

Special execution according to customer's requirements possible.

Bil-Metall-Thermometer

Dia.63,80,100,150 Acc.1,6



Dia 2½" thermometer & back connection & stainless steel



Dia 3½" thermometer & back connection & stainless steel

Back connection angle bi-metallic thermometer: A shape

No.	Diarmeter	The connecting type of the cover and case	Meterial	Measuring stern dia.	Measuring range
1	½75	Rotate cover type	Stainless steel SUS304	½8	-40~60½"/° 0~100½"/° 0~150½"/° 0~200½"/° 0~300½"/° 0~400½"/° 0~500½"/°
2	½100			½10	

Aajustable angle bi-metallic thermometer: A shape

No.	Diarmeter	The connecting type of the cover and case	Meterial	Mounting thread	Adjusting deoice	With thermowell
1	½50	Cover and case crimped connection	SUS304	G1/4½	NO	NO
2	½63	Cover: SUS304, the case is steel zinc plated	SUS304 case steel case zine plated	G1/2½ NPT1/2½	NO	G1/2½copper thermoewll
3	½75	Cover and case crimped connection or rotated cover type	SUS304	G1/2½ NPT1/2½	YES	NO
4	½100	Cover and case crimped connection or rotated cover type	SUS304 steel chrome plated	G1/2½ NPT1/2½	NO	According to the customer required
5	½150	Cover and case rotate connection type	SUS304	G1/2½ NPT1/2½	NO	According to the customer required



Dia 4½" thermometer & bottom connection & stainless steel



Dia 4½" thermometer & bottom connection & temperature transmitter & stainless steel

Bil-Metall-Thermometer Vapor acutated thermometer

L.shape (bottom) bi-metal thermometer



Diameter	60	75	100	100	150
The case and base connecting type	Revoiving cove type				
Material	SUS-304			Steel case chrome Plated.	SUS-304
Mounting nut	G1/4 _i , G1/2 _i		G1/2 _i , NPT1/2 _i		
Testing diamete	6.3,8mm	8mm	8,10mm	10mm	8,10mm
Temperature range	-40~60 _i /F, 0~100 _i /F, 0~150 _i /F, 0~200 _i /F, 0~300 _i /F, 0~400 _i /F, 0~500 _i /F				



Full stainless steel capillary vapor actuated thermometer

Diameter	100	100
Case mounting type	Back flange hanged mounting	Capillary and case bottom connection front flange, flush type mounting
With or without mounting nut	Without the nut or according to the customer's requirement, G1/2, NPT1/2 _i or M27X2	
Capillary	With the 3m S.S.capillary as the basic length. The capillary whether packed in the S.S.soft pipe according to the customer required.	
Temperature range	-40~60 _i /F, 0~100 _i /F, 0~150 _i /F, 0~200 _i /F, 0~300 _i /F, 0~400 _i /F, 0~500 _i /F, 0~600 _i /F	



Thermo-pressure gauge

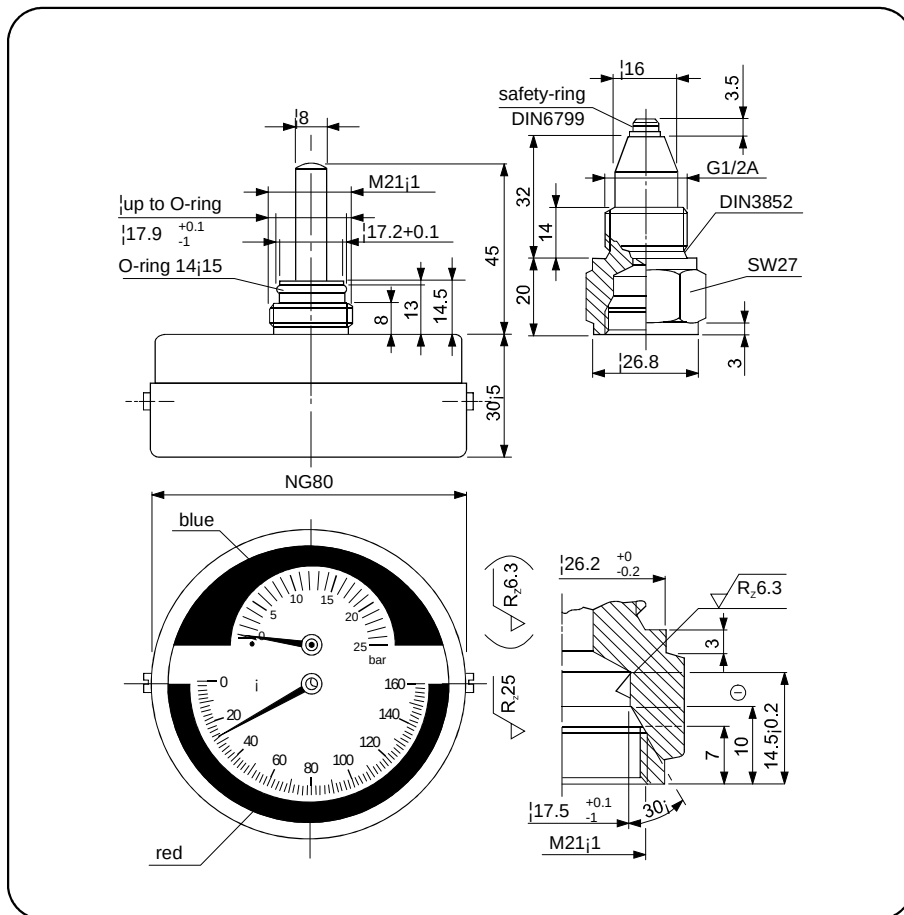
Type THR80.11 Acc.1,6

Thermo-oressure gauges type THR 80.11 with indicating pressure and temperature, which is measured by the rearside senso tube. Deliverable in nominal size 80mm.



Dia.	80mm
Case	Steel, black
Measuring System	brass-copper alloy
Measure range	0...40 bar/i
Connection thread	G1/2{G1/2BSPT with rearside sensotube and automatic closing valve
Lens	glass
Ring	steel chrome-plated bezel ring
Scales	Bar/i...120i/160i
Options	completely hard soldered-useable up to 160i

i Overall Dimensions



Vapor actuated thermometer



TY-7015 rectangular vapor actuated thermometer

Outer case: white ABS

Black ABS 62;12

Flush type mounting

Copper capillary that pack in the PVC pipe.

Copper thermometer bulb: diameter 6mm, length 60mm.



TY-6330 rectangular vapor actuated thermometer

Outer case: Black ABS, case dimension 25;58

Flush type mounting with clip

Copper capillary that pack in the PVC pipe.

Copper thermometer bulb: diameter 6mm, length 60mm.

Measuring Range: -40~40;/'" 20~120;/'"



TY-52 flush type thermometer

Outer case: ABS.

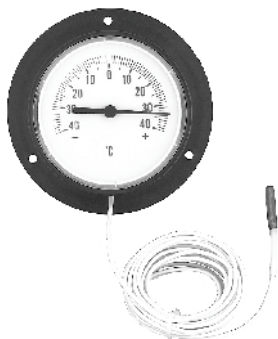
Outer diameter: 50, with clip flush type mounting.

Copper capillary that pack in the PVC pipe.

Length: 1.2m.

Measuring Range: -40~40;/'" 20~120;/'"

0~200;/'" 50~250;/'"



TY-8, TY-10 refrigerate or frozen thermometer for fridge and ice locker

Case material: ABS.

Case diameter: 60, 75, 100.

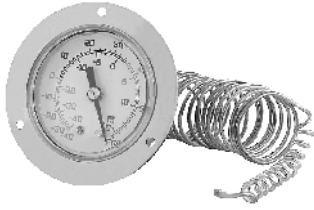
Mounting type: back flange hanged on the wall mounting, and front flange flushing mounting, copper capillary packed in PVC.

Length: 1.2m or 3m, as customer required.

Thermometer bulb: 6. Length:40

Measuring range: -40~40;/'"

Vapor actuated thermometer



TZU, YZU-2 refrigerate or frozen thermometer for fridge and ice locker

Case diameter: 50mm

Case material: SUS304

Case mounting type: Front flange mounting, back bracket mounting, hanged on the wall mounting.

Capillary: copper packed in PVC, length: 1.2m or 3m, as customer required.

Thermometer bulb: Copper, diameter: 8mm, length: 65mm.

The capillary of the diameter 1.8mm is coil into spiral pipe as the sensitive thermometer bulb, with suit to measure the air temperature.

Measuring Range: -40~150 $^{\circ}$ F / -40~20 $^{\circ}$ C



TZH-2 hanged type thermometer for fridge and ice locker

Outer size: 2 $\frac{1}{2}$ "

Outer case material: stainless steel

Copper capillary length: 120mm, 150mm, packed in PVC pipe.

The dimension of the thermometer bulb: 8 $\frac{1}{2}$ "x60, the outer bulb pack with PVC

Temperature range: -40~150 $^{\circ}$ F / -40~20 $^{\circ}$ C

Accuracy: 2%



TQU-221S oven use vapor actuated thermometer

Case diameter: 1 $\frac{5}{8}$ "

Stainless steel case, back bracket mounting stainless steel thermometer bulb: 1 $\frac{1}{2}$ "x10, Length: 100mm

Copper thermometer bulb: 1 $\frac{1}{8}$ "x8, Length: 85mm

Stainless steel capillary: 1 $\frac{1}{8}$ "x1.6, Length: 1m

Copper capillary: 1 $\frac{1}{8}$ "x1.6, Length: 1m

Measuring range: 0~300 $^{\circ}$ F / 0~400 $^{\circ}$ C, 50~500 $^{\circ}$ F / 0~500 $^{\circ}$ C or as customer required.