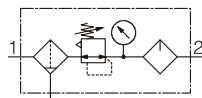


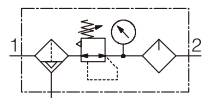
FRL
AC/BC
AFC/BFC
AFR/BFR
AF/BF
AR/BR
AL/BL
SR
SDR
AC
AW
AF
AR
AL
F3
F2
F1
F
R
L
USFRL
USFR/L
USFR
USF
USR
USL
QSL
QTY
QIU
QTYH
QSLH
QFRH
AFF
AF(Big)
AL(Big)
AR(Big)
AD402
AH402
AD-5
IR
ITV
ACR
F804
PG



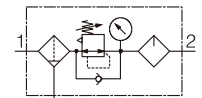
Symbol



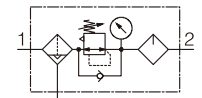
F3-...-MICRO/MINI/MIDI
Manual rotary condensate drain,
with pressure gauge



Semi or fully automatic condensate drain,
with pressure gauge



F3-...-MAXI
Manual rotary condensate drain,
with pressure gauge



Fully automatic condensate drain,
with pressure gauge

Ordering code

F	3		5M	7	MINI	H	E				
Series		Port size	Grade of filtration		Working pressure		Size	Condensate drain		Shell material	
F	F Series	1/8"	Blank	40µm	Blank	12bar	MICRO	Blank	Turned manually	Blank	Zinc
		1/4"	5M	5µm	7	7bar	MINI	H	Semi-automatic	E	Alu.
		3/8"					MIDI	A	Fully automatic		
		1/2"					MAXI				
		3/4"									
		1"									

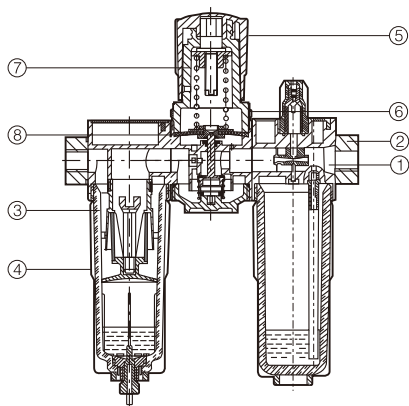
Installation and use

The F3 consisted of F+R+L, each unit can be ordered separately. The filter with water separator cleans the compressed air of fluid oil, condensation and dirt particles. For special application, the standard 40µm filter element may easily be replaced by a 5µm filter element. The R maintain inputting operating pressure constantly despite fluctuation in line pressure and the amount of air consumed. The proportional lubricator adds a regulated quantity of oil to the filtered air. The oil-mist mixed proportionally to the flow and oil can be added during operation. The oil drip rate is controlled by the adjustable knob. Normally, 1 to 12 drops/1000L of the air is sufficient.

Specification

Size		MICRO					MINI			MIDI				MAXI		
Pneumatic connection		M5	M7	1/8"	QS4	QS6	1/8"	1/4"	3/8"	1/4"	3/8"	1/2"	3/4	1/2"	3/4"	1"
Operating medium		Compressed air														
Design		Filter regulator, with/without pressure gauge														
		Proportional standard mist lubricator														
Type of mounting		Via accessories														
		In-line installation														
Assembly position		Vertical ±5°														
Regulator lock		Rotary knob with lock														
		-					Rotary knob with lock									
Grade of filtration (µm)		5					5 (or) 40							0.4		
Max. hysteresis (bar)		0.3					0.2									
Pressure regulation range (bar)		0.5...7					0.5...7									
							0.5...12									
Pressure indication		Via pressure gauge														
		M5 Prepared					1/8" Prepared			1/4" Prepared				1/4" Prepared		
Max. condensate volume (cm³)		3					22			43				80		
Input pressure (bar)																
Condensate drain	Turned manually	1...10					2...16									
	Semi-automatic	1...10					-									
	Fully automatic	-					2...12									

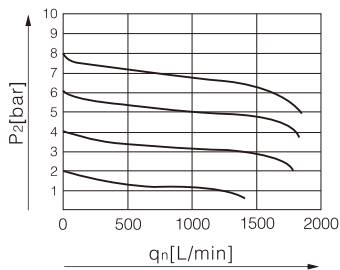
Inner structure



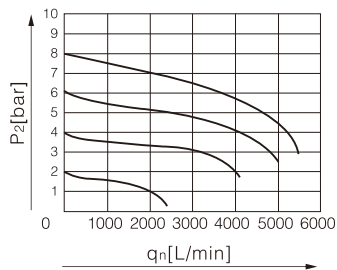
No.	Item	Material
1	Casting	Die-casting zinc alloy
2	Connecting plate	Die-casting aluminum alloy
3	Filter bowl	Polycarbonate
4	Protecting cover	Aluminum
5	Adjustable knob	POM
6	Knurled nut	Aluminum
7	Valve cover	POM
8	Diaphragm	NBR
	Seal	NBR

Standard flow rate chart

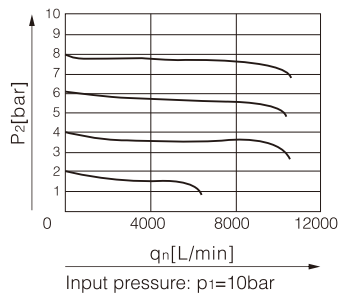
F3-1/4-MINI



F3-1/2-MIDI

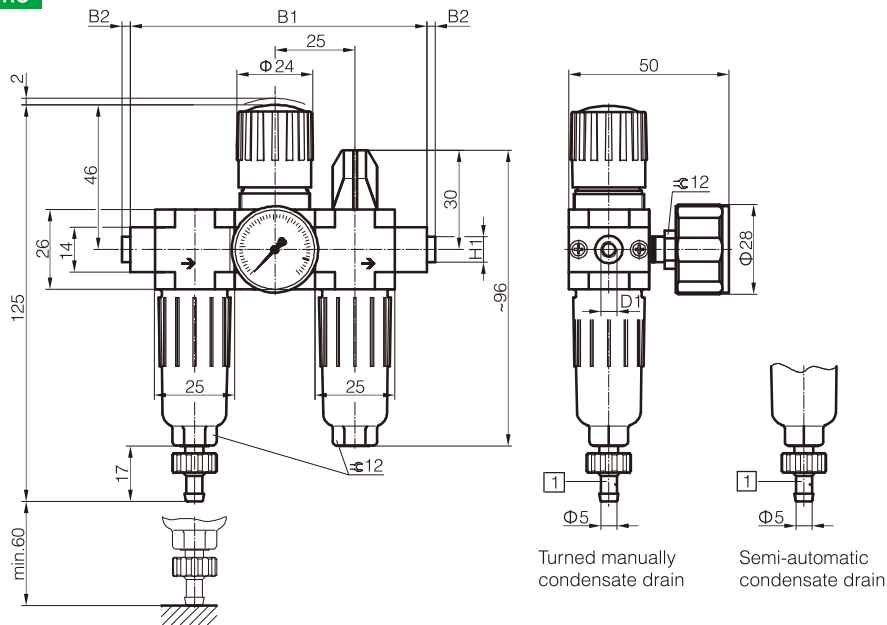


F3-1-MAXI



Dimensions

MICRO



1 Barbed fitting for plastic tubing type PCN-4

➔ Flow direction

Model	B1	B2	D1	H1
F3-M5-D-7-5M-MICRO(H)	75	-	M5	-
F3-M7-D-7-5M-MICRO(H)B			M7	
F3-1/8-D-7-5M-MICRO(H)			1/8"	
F3-QS4-D-7-5M-MICRO(H)	95	~2.5	QS4	~8
F3-QS6-D-7-5M-MICRO(H)			QS6	~10

FRL

AC/BC

AFC/BFC

AFR/BFR

AF/BF

AR/BR

AL/BL

SR

SDR

AC

AW

AF

AR

AL

F3

F2

F1

F

R

L

USFRL

USFR/L

USFR

USF

USR

USL

QSL

QTY

QTYH

QSLH

QFRH

AFF

AF(Big)

AL(Big)

AR(Big)

AD402

AH402

AD-5

IR

ITV

ACR

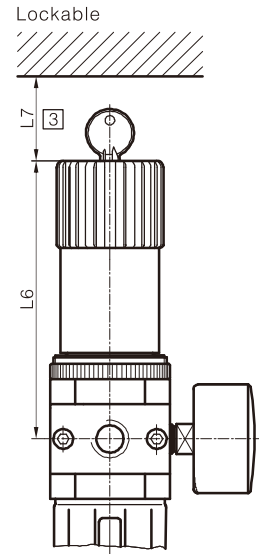
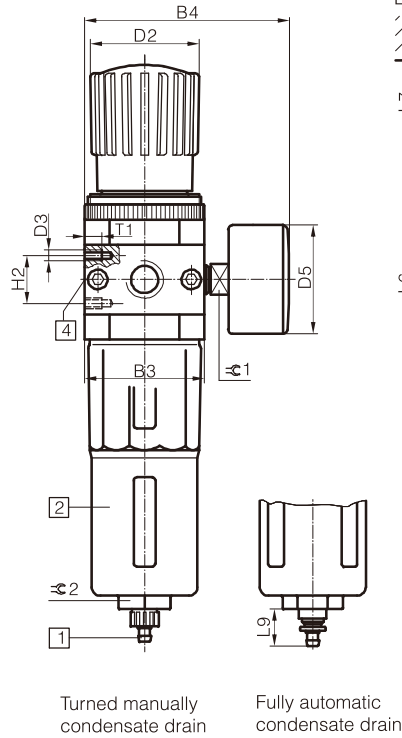
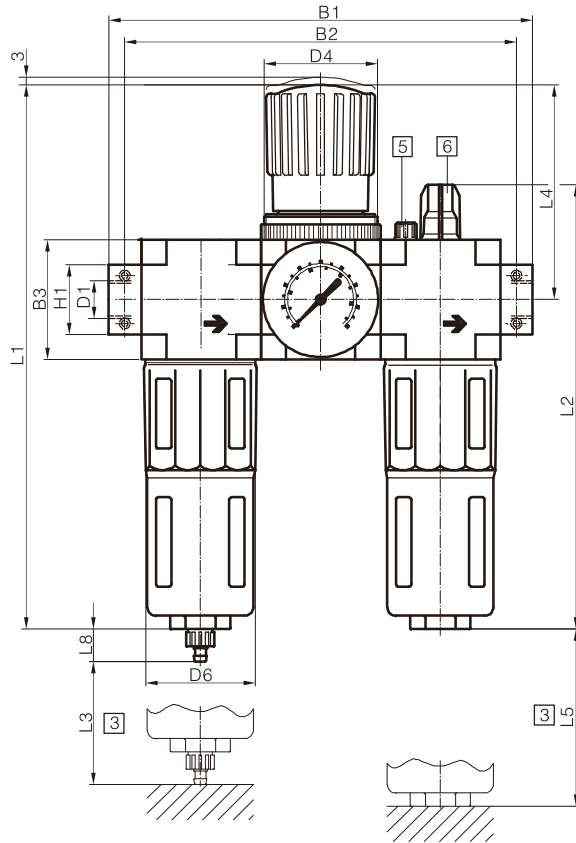
F804

PG

FRL

AC/BC
AFC/BFC
AFR/BFR
AF/BF
AR/BR
AL/BL
SR
SDR
AC
AW
AF
AR
AL
F3
F2
F1
F
R
L
USFRL
USFR/L
USFR
USF
USR
USL
QSL
QTY
QIU
QTYH
QSLH
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F804
PG

MINI/MIDI/MAXI



- 1 Barbed fitting for plastic tubing type PCN-4 2 Metal bowl guard 3 Installation dimensions → Flow direction
4 Second pressure gauge connection 5 Exhausting screw for oil reservoir 6 Oil adjusting screw

Model	B1	B2	B3	B4	D1	D2Φ	D3	D4	D5Φ	D6Φ	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9	T1	≈1	≈2
MINI																								
F3-1/8-D-MINI	144	120	40	76	1/8"	31	M4	M36×1.5	41	38	20	11	193	169	60	69	100	98	60	15	19	7	14	22
F3-1/4-D-MINI					1/4"																			
F3-3/8-D-MINI	150				3/8"																			
MIDI																								
F3-1/4-D-MIDI	195	165	55	95	1/4"	50	M5	M52×1.5	50	52	32	22	250	204	80	99	120	130	60	15	19	8	14	24
F3-3/8-D-MIDI					3/8"																			
F3-1/2-D-MIDI					1/2"																			
F3-3/4-D-MIDI					3/4"																			
MAXI																								
F3-1/2-D-MAXL	228	198	66	107	1/2"	31	M5	M36×1.5	50	65	32	22	252	228	90	82	150	111	60	15	19	8	14	24
F3-1/2-D-DI-MAXL					1/2"	49		M52×1.5					275			105		135						
F3-3/4-D-MAXL					3/4"	31		M36×1.5					252			82		111						
F3-3/4-D-DI-MAXL					3/4"	49		M52×1.5					275			105		135						
F3-1-D-MAXL	248				1"	31		M36×1.5			40		252			82		111						
F3-1-D-DI-MAXL					1"	49		M52×1.5					275			105		135						

Note: This product conforms with ISO 1179-1 standard and the ISO 228-1 standard.