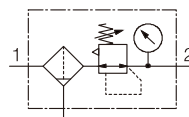


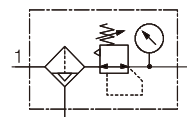
FRL
AC/BC
AFC/BFC
AFR/BFR
AF/BF
AR/BR
AL/BL
SR
SDR
AC
AW
AF
AR
AL
F3
F2
F1
F
R
L
USFRL
USFR/L
USFR
USF
USR
USL
QSL
QTY
QIU
QTYH
QSLH
QFRH
AFF
AF(Big)
AL(Big)
AR(Big)
AD402
AH402
AD-5
IR
ITV
ACR
F804
PG



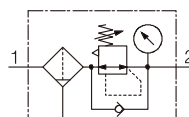
Symbol



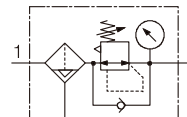
F1...-MICRO/MINI/MIDI
Manual rotary condensate drain,
with pressure gauge



Semi or fully automatic condensate drain,
with pressure gauge



F1...-MAXI
Manual rotary condensate drain,
with pressure gauge



Fully automatic condensate drain,
with pressure gauge

Ordering code

F	1		5M	7	MINI	H	E
Series	Function code	Port size	Grade of filtration	Working pressure	Size	Condensate drain	Shell material
F F Series	Filter & regulator	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

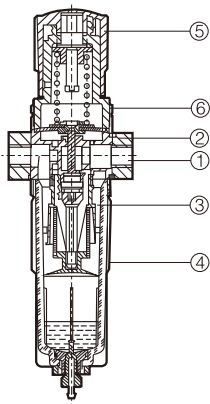
Filter and pressure regulator combine a single unit, and cleans the compressed air of fluid oil, condensation and dirt particles. For special application, the standard 40µm filter element may easily be replaced by a 5µm filter element.

The R maintain inputting operating pressure constantly despite fluctuation in line pressure and the amount of air consumed.

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														
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									

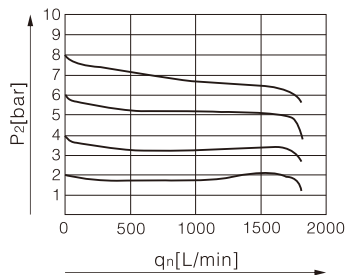
Inner structure



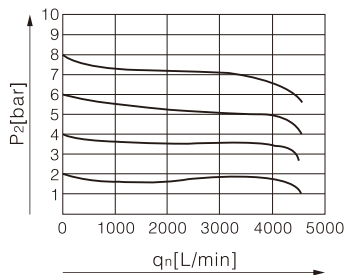
No.	Item	Material
1	Casting	Die-casting zinc alloy
2	Connecting plate	Die-casting aluminum alloy
3	Filter bowl	Polycarbonate
4	Protecting cover	Aluminum
5	Adjustable knob	POM
6	Knurled nut	Aluminum
	Seal	NBR

Standard flow rate chart

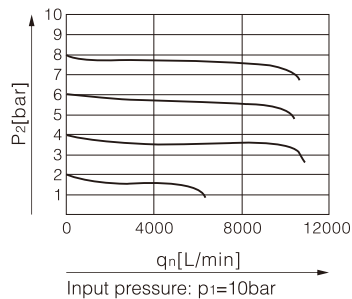
F1-1/4-MINI



F1-1/2-MIDI

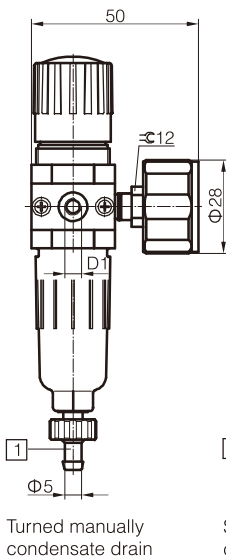
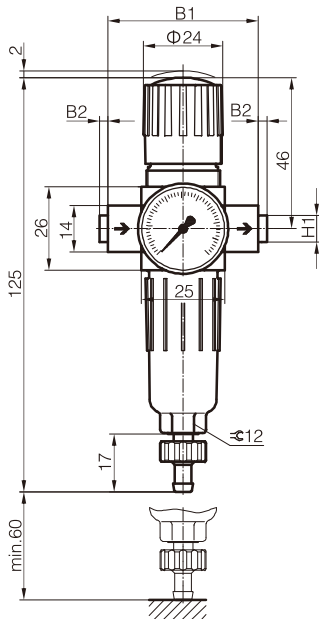


F1-1-MAXI



Dimensions

MICRO



1 Barbed fitting for plastic tubing type PCN-4

➔ Flow direction

Model	B1	B2	D1	H1
F1-M5...-MICRO(H)	25	-	M5	-
F1-M7...-MICRO(H)B			M7	
F1-1/8...-MICRO(H)			1/8"	
F1-QS4...-MICRO(H)	45	~2.5	QS4	~8
F1-QS6...-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

QIU

QTYH

QSLH

QFRH

AFF

AF(Big)

AL(Big)

AR(Big)

AD402

AH402

AD-5

IR

ITV

ACR

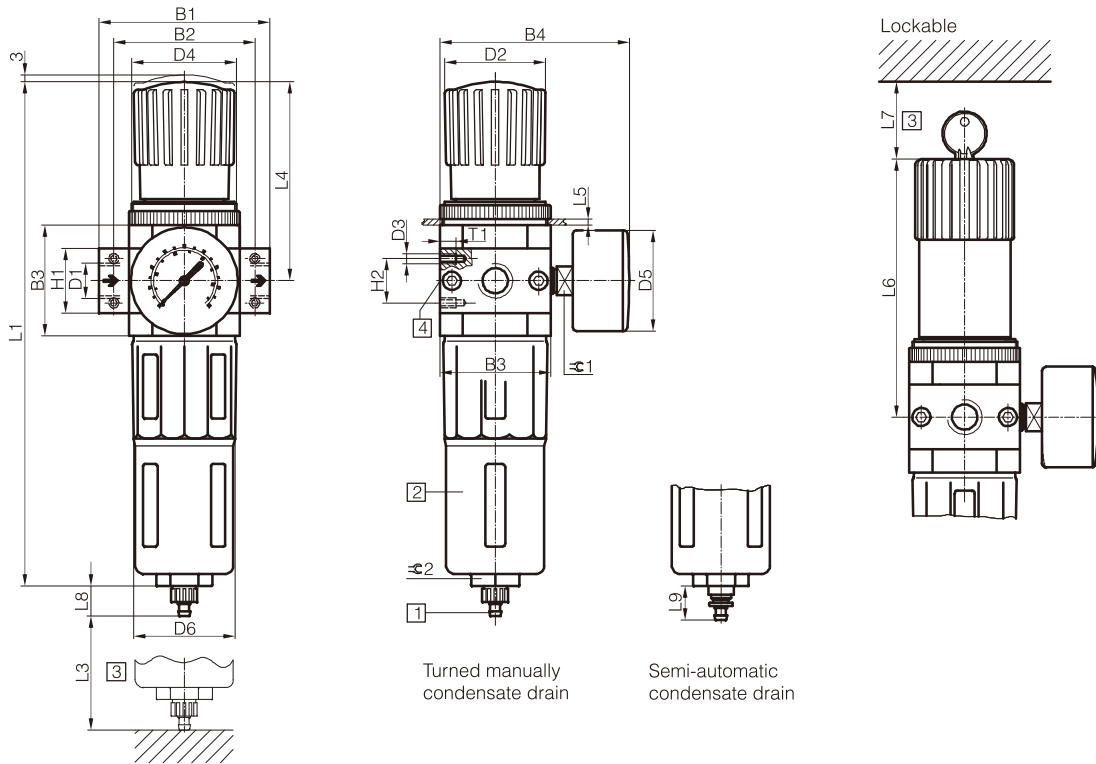
F804

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
QFRH
AFF
AF(Big)
AL(Big)
AR(Big)
AD402
AH402
AD-5
IR
ITV
ACR
F804
PG

MINI/MIDI/MAXI



[1] Barbed fitting for plastic tubing type PCN-4

[3] Installation dimensions

➔ Flow direction

[2] Metal bowl guard

[4] Second pressure gauge connection

Model	B1	B2	B3	B4	D1	D2Φ	D3	D4	D5Φ	D6Φ	H1	H2	L1	L3	L4	L5 max.	L6	L7	L8	L9	T1	≧1	≧2
MINI																							
F1-1/8-D-MINI	64	52	40	76	1/8"	31	M4	M36×1.5	41	38	20	11	193	60	68	3	98	60	15	19	7	14	22
F1-1/4-D-MINI					1/4"																		
F1-3/8-D-MINI	70				3/8"																		
MIDI																							
F1-1/4-D-MIDI	85	70	55	95	1/4"	50	M5	M52×1.5	50	52	32	22	250	80	99	5	130	60	15	19	8	14	24
F1-3/8-D-MIDI					3/8"																		
F1-1/2-D-MIDI					1/2"																		
F1-3/4-D-MIDI					3/4"																		
MAXI																							
F1-1/2-D-MAXL	96	80	66	107	1/2"	31	M5	M36×1.5	50	65	32	22	252	90	82	4	111	60	15	19	8	14	24
F1-1/2-D-DI-MAXL					49	M52×1.5		275					105		135								
F1-3/4-D-MAXL					3/4"	31		M36×1.5					252		82		111						
F1-3/4-D-DI-MAXL					49	M52×1.5		275					105		135								
F1-1-D-MAXL	116	91			1"	31		M36×1.5			40		252		82		111						
F1-1-D-DI-MAXL					49	M52×1.5		275					105		135								

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