

JIS symbol

1219/1244/1237/1238/1226/1226J Series

Micro alescer / micro naught type (oil removing)

Oil content is to be 0.1PPMw/w or less. (measurement/instrumentation and luxury painting) Port size: Rc1/4 to Rc 2



Specifications	Di	scontinue	d				
Descriptions 1219-20		1244-2C-F1	1237-2C/3C/4C-F1	1237-2C/3C/4C-F1	1238-6C-F1	1226-8C-F1	1226J-12C/16C-F1
Appearance				1 Annual			
Working fluid				Compressed a	r		
Max. working pressure MPa				1.0			
Withstanding pressure MPa			1.5				
Fluid temperature (ambient temperature) °C				5 to 54			
Oil removing		0.1PPMw/w (for inlet air temperature 30℃)					
Maximum flow rate m ³ /min. (ANR)	0.056	0.11	0.42	0.71	1.27	2.49	4.8
Port size Rc	1/4	1/4	1/4, 3/8, 1/2	1/4, 3/8, 1/2	3/4	1	1 1/2, 2
Product weight kg	0.3	0.7	1.4	1.5	2.5	8.2	8.5
Mantle quantity	1	1	1	1	1	1	1
Mantle assembly model no.	1219-MANTLE	1244-MANTLE	1237-MANTLE	1237-MANTLE	1238-MANTLE	1226-MANTLE	1226J-MANTLE
(Set of mantle and O ring for sealing or gasket)	-ASSY	-ASSY	-ASSY	-ASSY-J	-ASSY	-ASSY	-ASSY

Note 1: Recommended maximum flow rate is the atmospheric conversion value where inlet air pressure is 0.7MPa and inlet pressure drop is 0.01MPa. Note 2: Mantle assembly number shows the part combining discrete material and O ring or gasket (parts list (6) on the following page).

Note 3: Minimum working pressure of N.C. automatic drain with manual cock (option "F1") is 0.15MPa.

P80

P90

Flow characteristic

CKD





Flow senso for air

Flow senso

Total air

system

Total air

system (Gamma)

Ending

for water

Discontinue

Air Filter Series

How to order / internal structure / dimensions



cock "F" can not be selected. Note 4: Refer to pages 608 and 609 for attachment "B" bracket.

Note 5: Refer to page 543 for operation condition for automatic drain.

Internal structure and parts list



Nie	Part name	Material							
INO.		1219	1244	1237	1238	1226	1226J	ē o	
1	Guard	Zinc alloy die-casting							
2	Clamp ring	- Zinc alloy die-casting							
3	O ring	Special nitrile rubber							
4	Bowl	Polycarbonate resin						o al	
5	Bowl guard	Steel						/licre	
6	O ring or gasket	Nitrile rubber						211	
7	Mantle	-							

Magnetic spring buffer Mechanica pressure SW Electronic pressure SW Contact / close contact conf. SW Air sensor Pressure SW for coolant Small flow senso Small flow controlle Flow sensor for air Flow sensor for water Total air system Total ai (Gamma) Ending

CKD

type

Air Filter Series

CAD

Discontinue

Dimensions

Refrigerating type dryer Desiccant type dryer High polyme membrane dryer

Air filte

Auto. drain / others F.R.L.

(Module unit) F.R.L. (Separate) Compact F.R.

Precise regulator F.R.L. (Related products Clean F.R. Electro pneumatic regulator Air booster Speed

control valv Silence Check valv

/ others

Joint

/ tube

filter Vacuum regulator Suction

Vacuum



Model no.	Port size	А	В					С	D
Combination option		All models	Blank	F1	Ε	М	F1M	All m	odels
1219-2C	Rc1/4	38	92	-	-	92	-	9	60
1244-2C	Rc1/4	68	179	179	169	160.5	190	13	60
1237-2C/3C/4C	Rc1/4/, 3/8, 1/2	92	186	186	175	170	196	17	90
1237-2C/3C/4C-J	Rc1/4/, 3/8, 1/2	92	267	267	255	252.5	278.5	17	160
1238-6C	Rc3/4	118	365	365	354.5	351	375	25.5	200
1226-8C	Rc1	203	529	529	518	517	538	48	250
1226J-12C/16C	Rc11/2, 2	203	529	529	518	517	538	48	250

Note 1: Nylon tube with ϕ 5.7 to 6.0 can be directly connected to the exhaust port of manual cock type.

Note 2: For metal bowl with automatic drain, drain port size is Rc1/4. Note 3: Refer to pages 608 to 609 for dimensions of bracket.

Internal structure of mantle



99% of oil grains in compressed air are present as aerosol. These aerosol (0.8 to $0.01 \,\mu$ m of particles) can not be captured by 3μ m or 5μ m of element, or other mechanical methods. Micro alescer / micro naught type is an air filter to remove aerosol effectively. Due to micro fiber layer, great efficiency is achieved. Using glass fiber in micro fiber layer, oil aerosol is captured by cohesion caused by direct or inertia colliding, containing and adhering, or diffusing (Brownian motion) to fine fibers in the micro fiber layer randomly, then small drops are formed. Oil grains captured in micro fiber condenses on the plastic foam layer coating outside of mantle, and forms large liquid drops to prevent re-entrainment by air flow. At the same time, this plastic foam layer serves to gravity-settle liquid drops in the inside.

Both these micro fiber layer and plastic foam layer captures oil grains to condense and separate the oil in compressed air.

If salphur dioxide or chlorine gas is contained in the compressed air, plastic foam layer is dipped, and may expand by organic compound such as hydrocarbon, chlorine hydrocarbon, ketone, aldehyde and amine, etc. So, carefully check these matters before starting use.

Oil indicator

Use oil indicator for measuring oil content density. Oil indicator model No. With needle valve 6509 Without needle valve 6510



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