

Clean Room Regulator Manifold Type

Oil-free specification

INA-48-14-M02

INA-48-14-M04

SMC CORPORATION 1-16-4 Shimbashi, Minato-ku Tokyo 105-0004, JAPAN

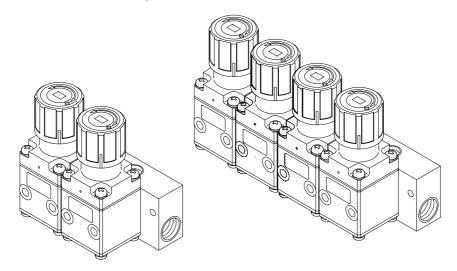
URL: http://www.smcworld.com

Application: Used for semiconductor manufacturing device (stepper), pressure regulation for air bearing and air-blow.

Feature 1: Oil-free specification

- 1) Component assembly without using grease
- 2) All wetted parts are given an ultrasonic (degreasing) cleaning using HCFC141b (alternative freon)

Feature 2: Manifold type (Number of stations: 2 stations, 4 stations)



INA-48-14-M02

INA-48-14-M04

Feature 3: Integrated production in clean room

1) Cleaning in Class 10000 atmosphere, and assembly, inspection and sealed double packing in Class 100 atmosphere

Feature 4: Wetted parts material

Body	SUS316		
Stem guide	PTFE		
Diaphragm assembly	FPM (Wetted parts material: SUS316)		
Manifold base	SUS304		

Specifications

Fluid	Air, N ₂
Proof pressure	1.5MPa
Maximum operating pressure	1.0MPa
Regulating pressure range	0.05 to 0.7MPa
Ambient and fluid temperature	5 to 60°C
Construction	Non-relieving
Oil-free	Without using grease, wetted part by degreasing

How to Order

Manifold model number (*1) INA-48-14-M 02

Number of stations

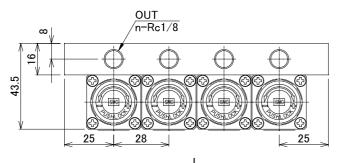
02	2 stations				
04	4 stations				

Regulator model number (*2) INA-48-14-00

- *1) Designated No. of regulators (INA-48-14-00) are mounted on a manifold before shipping.
 *2) Regulator cannot be used independently. Be sure to mount on a dedicated manifold base for use.

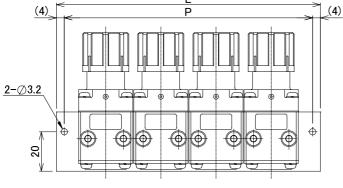
Dimensions: mm

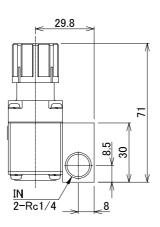
Regulator manifold (Model number: INA-48-14-M**)



Dimensions: mm

Model number	Stations n	Р	L	Manifold base number
INA-48-14-M02	2	70	78	INA-48-3-102
INA-48-14-M04	4	126	134	INA-48-3-104

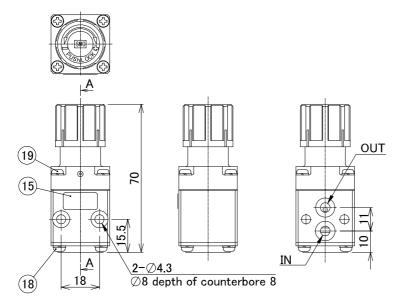


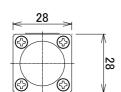


- *3) One hexagonal socket plug and manifold regulator are shipped in a same package.
- *4) Mount regulator on base with O-ring and hexagon socket head cap screw attached to the regulator.

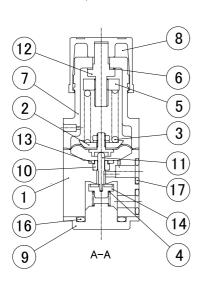
Dimensions: mm

Regulator (number: INA-48-14-00)





*5) Components 17 and 20 are shipped together with regulator in a same package.



Component Parts

Component Parts						
No.	Description	Material	Qty.	Note		
1	Body	SUS316	1	_		
2	Diaphragm assembly	FPM	1	Wetted parts material SUS316		
3	Adjusting spring	SWPB	1	Zinc chromate		
4	Valve spring	SUS316	1	_		
5	Adjusting spring holder	S15C	1	Special electroless nickel plated		
6	Seal	PTFE	1	_		
7	Bonnet	POM	1	_		
8	Knob	POM	1	_		
9	Cap	SUS316	1	_		
10	Stem guide	PTFE	1	_		
11	Stem	SUS316	1	_		
12	Adjusting screw	SS41	1	Electroless nickel plated		
13	Spacer	SUS316	1	_		
14	Valve	SUS316	1	Rubber lining FPM		
15	Label	PET	1	Full part number indicated		
16	O-ring	FPM	1	JIS B 2401 P14		
17	O-ring	FPM	2	JIS B 2401 P6		
18	Machine screw with spring washer	SUS304	4	M3×6		
19	Machine screw with spring washer	SUS304	4	M3 × 12		
20	Machine bolt with spring washer	SUS304	2	M4 × 25		

Note: Pressure gauge should be mounted on piping.

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To ensure the safest possible operation of this product, please be sure to read thoroughly the "Safety Instructions" in our "Best Pneumatics" (general catalog) before use.