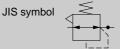
Dial air regulator

2302/2303/2304 Series

Dial provided to enable easy pressure adjustment. Control of large flow rate is also enable.

Port size: Rc1/4 to Rc2







Specifications

Refrigerating

Desiccan

type drye

High polyme membrane dryer Air filte Auto. drain

F.R.L. (Module unit) F.R.L. (Separa Compact F.R. Precise regulato F.R.L. (Related products Clean F.R. Electro pneumati regulator Air booster

control valv

Silence Check valve / others

Joint / tube

Vacuum

Magnetic

Electronic

Air senso Pressure SW

flow senso

flow controlle

Flow senso

Flow senso

Total air

system

Total air

Ending

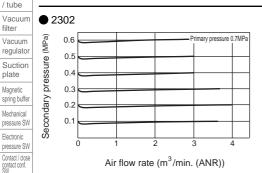
for water

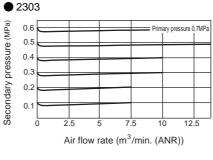
Descriptions	2302-2C-3C-4C-6C	302-2C·3C·4C·6C 2303-6C·8C·10C 230				
Working fluid	Compressed air					
Max. working pressure Mpa	2.06					
Withstanding pressure Mpa	3.09					
Fluid temperature (ambient temperature) °C	5 to 65					
Set pressure range Mpa	0.05 to 1.08					
Relief	With relief mechanism					
Port size Rc	1/4, 3/8, 1/2, 3/4	3/4, 1, 1 1/4	1 1/2, 2			
Product weight kg	1	1.8	4			
Constant bleeding rate ℓ /min ANR 3 or less (air consumption)			n)			

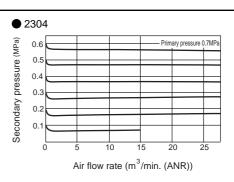
Note 1: Check that the primary pressure is at least 0.1 MPa or more than the setting pressure.

Note 2: The dial scale is a guide. Check the pressure gauge for precise secondary pressure.

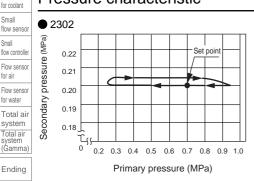
Flow characteristic

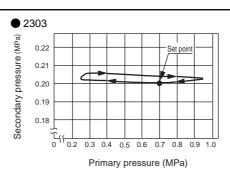


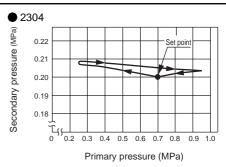




Pressure characteristic



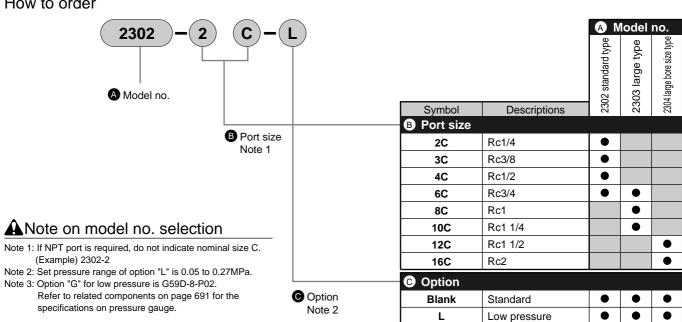




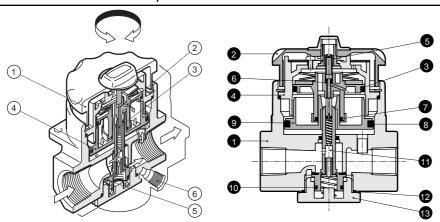
Regulator Series

How to order





Internal structure and parts list



NIa	Dartasasa	Material						
No.	Part name	2302	2303	2304				
1	Body	Zinc alloy die-casting						
2	Adjusting knob	Polycarbonate resin						
3	O ring	Fluoro rubber						
4	O ring	Fluoro rubber						
5	Bonnet assembly	Zinc alloy die-casting, brass, etc.						
6	O ring	Nitrile rubber						
7	O ring	Nitrile rubber						
8	O ring	Fluoro rubber						
9	Bottom piston	Polyacetal resin						
10	O ring	Fluoro rubber						
11	Main valve assembly	Brass, polyacetal resin, hydrogen nitrile rubber Brass, hydrogen nitrile rubbe						
12	O ring	Nitrile rubber						
13	Bottom plug	Polyacetal resin Zinc alloy die-casting						

Repair parts list

Part name	Model no.					
raithanle	2302	2303	2304			
Repair kits Note 1	2302-KIT	2303-KIT	2304-KIT			
Valve assembly kit Note 2	2302-VALVE-ASSY	2303-VALVE-ASSY	2304-VALVE-ASSY			

Note 1: Set of main valve assembly, bottom piston, O ring, etc.

Note 2: Set of main valve assembly, O ring, etc.

Functional explanation

Pressure gauge (G59D-8-P10)

(1) Adjusting knob

G

Adjusting knob can be turned clockwise to set the pressure within range of 0.05 to 1.08 MPa. A stopper is provided to prevent the secondary pressure from setting more than set pressure. (2) Upper piston

Pilot pressure is adjusted by the upper piston and the pressure adjustment spring according to pilot singles from the pilot valve.

(3) Pilot valve

Turning the adjusting pilot knob shifts the pilot valve position to set the pilot pressure.

(4) Bottom piston

A valve stem is open and closed by the balance between pilot pressure and secondary pressure. If the secondary pressure increases more than the set pressure, a relief valve opens to release the pressure to the atmosphere.

(5) Valve stem

If the pilot pressure and secondary pressure turn to off-balance, the compressed air on the primary side is supplied as requires as to the secondary side.

A valve with large port size is used to achieved excellent flow characteristics.

(6) Gauge port

Pressure scale is provided to enable rough pressure setting without another pressure gauge. If the accurate set pressure is required, install a pressure gauge to the gauge port.

Desiccant type dryer High polyme Air filter

> Auto. drain F.R.L.

(Module unit) F.R.L. Compact

Precise regulator F.R.L. (Related products Clean Electro

regulator booster

Silencer

Check valve / others / tube

Vacuum Vacuum Suction

Magnetic spring buffer

Mechanica pressure SV pressure SW

Air sensor

Pressure SW

flow sensor flow controlle Flow sensor

Flow sensor for water

Total air Total air (Gamma)

Ending

air regulator

Regulator Series

Dimensions



Refrigerating type dryer

Desiccant type dryer

High polymer membrane dryer

Air filter

Auto. drain / others F.R.L. (Module unit)

F.R.L. (Separat

Compact F.R.

Precise regulator F.R.L. (Related products)

Clean F.R. Electro

Electro pneumatic regulator Air booster

Speed

Speed control valve Silence

Check valve / others

Joint / tube

Vacuum

Vacuum regulator

Suction plate

Magnetic spring buffer

Mechanical pressure SW Electronic

pressure SW Contact / close contact conf. SW

Air sensor

Pressure SW for coolant

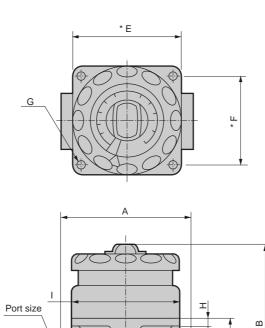
Small flow sensor

Small flow controlle

Flow sensor for air Flow sensor for water

Total air system Total air system (Gamma)

Ending



Ω

S

Descriptions	Port size	А	В	С	D	Е	F	G	Н	1
2302-2C-3C-4C-6C	Rc1/4, 3/8, 1/2, 3/4	81	99	24	28	67.5	56	4- φ5.6 penetrating	φ6	φ67
2303-6C-8C-10C	Rc3/4, 1, 11/4	110	129	44	37	67.5	56	4-φ5.1 depth 11	-	φ67
2304-12C-16C	Rc1 1/2, 2	135	170	71	36	-	-	-	-	φ67

2-Rc1/4

Gauge port