Product features/ Code of order

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• Specification

Item	Model	ERX-200	ERX-300	ERX-400			
Fluid		Air					
Max. supply pressure	kgf/cm ² (kPa)	10 (1,000)					
Min. supply pressure	kgf/cm ² (kPa)	Setting press	Setting pressure +1.0 (100)				
Pressure range	kgf/cm² (kPa)	ERX-200: 0.1~8.2 (10~800)	ERX-300: 0.1~8.2 (10~800)	ERX-400: 0.1~8.2 (10~800)			
		ERX-200-L4: 0.1~4.2 (10~400)	ERX-300-L4: 0.1~4.2 (10~400)	ERX-400-L4: 0.1~4.2 (10~400)			
		ERX-200-L2: 0.1~2.2 (10~200)	ERX-300-L2: 0.1~2.2 (10~200)	ERX-400-L2: 0.1~2.2 (10~200)			
Repeatability		F.S. ±1% within					
Air consumption	L/min(ANR)	0					
Port size	Rc	1/8	1/4	1/4, 3/8, 1/2			
Pressure gauge port size Rc		1/8 (2 sides)					
Ambient and fluid ten	nperature °C	5 ~ 60°C					
Weight	kg 0.21		0.41	0.51			

O Code of order



Characteristics graph

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Product features

Components and Material list



• Working principle

When the setting knob is turned, the nozzle is opened by the rod allowing the supply air that flows in from the upstream side to pass through the fix throttle. It then acts on Main diaphragm as nozzle back pressure, the main valve is pushed down by the generated force, and the supply pressure flows out to the downstream side. The air pressure that flows in acts on main diaphragm. While opposing that force generated by main diaphragm it also acts on diaphragm, opposing the compression force of the setting spring and becomes that set pressure. If the set pressure rises too high, diaphragm is pushed up, the interval between the rod and the piston widens, the nozzle back pressure drop, the balance of main diaphragm and diaphragm is broken, the main valve closes, the exhaust valve opens and the excess pressure from the downstream side is discharge to the atmosphere. In this way fine pressure variations are detected by the nozzle/rod and piston type pilot mechanism, and precise pressure adjustment is performed.

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Components and material list

No.	Item	Material	Quantity	No.	Item	Material	Quantity
01	Body	Aluminum alloy	1	06	Spring	Stainless steel	1
02	Base	Aluminum alloy	1	07	Main spring	Piano string	1
03	Top cover	Aluminum alloy	1	08	Diaphragm	NBR	1
04	Shaft	Copper(With rubber)	1	09	Piston	Stainless steel	1
05	Tube	Copper(With rubber)	1	10	Main diaphragm	NBR	1

▲ Specific Product Precautions

WARNING

① If the drain removal from air filter and mist is missed, drain will be flown out to the outlet side and may resultin a malfunction of the pneumatic equipment.

Air Supply

② Operating with auto drain filter is suggested to keep the qualities of pressure air.

- ① If the supply pressure line contain drain or particulate, etc., the fixed throttle can become clogged leading to malfunction, and therefore, in addition to Chelic's NF or MF series mist separator.
- ② Never use a lubricator on the supply side of the regulator, as this will positively cause the fixed throttle to become clogged and result in a malfunction. If lubricator is required for terminal devices, connect a lubricator on the output side of the regulator.

 Never operate a precision regulator out of the range of its specifications or it could cause failure.(Refer to specifications.)

Operation

- ② Make sure not to clog up the bleed hole when a precision regulator is mounted. Air releasing is normal to make the pressure balance inside.
- ③ Mounting a directional switching valve(solenoid vavle, mechanical valve) on the supply side could cause unbalance pressure and wear and tear on the nozzle/flapper section.; therefore, do not use directional switching valve.
- ④ It is a necessary consumption to released air from the bleed hole (the hole on the bottom of the body) based on the construction of the precision regulator and is no an abnormality.
- (5) After pressure adjustment, make sure to tighten the lock nut to avoid unstable pressure.

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Dimensions



Dimensions

• ERX-400

• Panel mounting dimensions

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Instructions

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• Tension control

• Contact pressure control

Driving roller Winding roller Low friction cylinder

 Adapts to the cylinder's piston displacement, maintaining a certain pressure.

• Multistage control of pressing force for workpiece (Grinder)

• Leakage test circuit

ERP

ERX

NF

MF

MFD

NR

ARX

NPR

NL

Ν

DM

PG/AFB NDV/AD