

Positioners

Electro-Pneumatic Positioner/Smart Positioner IP8□00/IP8□01



IP8001 (Lever type)



IP8101 (Rotary type)

- Enclosure: JISF8007 IP65 (Compliant with IEC 60529)
- Monitoring function
- Explosion-proof construction
 - Electro-pneumatic positioner: TIS explosion-proof construction (Exd II BT5)
 - ATEX intrinsically safe explosion-proof construction (II 2G Ex ib II CT5/T6)
 - Smart positioner: ATEX intrinsically safe explosion-proof construction (II 1G Ex ia II CT4/T5/T6)
- HART transmission function (Smart positioner)

Description	Series	Type	Port size [Rc, NPT, G]	Supply air pressure [MPa]	Input current
Electro-pneumatic positioner	IP8000	Lever type	1/4	0.14 to 0.7	4 to 20 mA DC
Electro-pneumatic positioner	IP8100	Rotary type	1/4	0.14 to 0.7	4 to 20 mA DC
Smart positioner	IP8001	Lever type	1/4	0.14 to 0.7	4 to 20 mA DC
Smart positioner	IP8101	Rotary type	1/4	0.3 to 0.7	4 to 20 mA DC

Pneumatic-Pneumatic Positioner IP5000/5100



- JIS F8007 IP55

Series	Port size	Supply air pressure [MPa]	Input pressure [MPa]
IP5000/5100	Rc1/4	0.14 to 0.7	0.02 to 0.1

Cylinder Positioner IP200



- Servo-mechanism allows for precise and stable position control of cylinders
- Can be used as a cylinder position control unit for general industrial machines

Series	Port size	Supply air pressure [MPa]	Input pressure [MPa]
IP200	Rc1/4	0.3 to 0.7	0.02 to 0.1

Regulators

Filter Regulator 1301/IW



Series	Port size	Set pressure [MPa]	Filtration accuracy [μm]
1301	Rc1/4	0.02 to 0.2 0.02 to 0.29 0.02 to 0.49	5
IW		0.02 to 0.2 0.02 to 0.3 0.02 to 0.5	

Filter Regulator: Made to Order AW30-B to AW60-B-X430/X440



- Special temperature environment:
Special materials are used in the manufacturing of seals and resin parts to allow them to withstand various temperature conditions in cold or tropical (hot) climates.

Series	Environment	Port size	Set pressure [MPa]	Filtration accuracy
AW30-B to AW60-B-X430	Low temperature -30 to 60°C	1/4 to 1	0.05 to 0.85	5 μm
AW30-B to AW60-B-X440	High temperature -5 to 80°C		0.02 to 0.2	

Regulators

Filter Regulator **AW30/40-X2622**



- Stainless steel 316 and special temperature environment (–40°C) specifications
- External parts material: Stainless steel 316
- Ambient and fluid temperatures: –40 to 80°C
- NACE International Standards compliant

Series	Port size	Set pressure [MPa]	Nominal filtration rating [μ m]
AW30/40-X2622	1/4, 3/8, 1/2, 3/4	0.05 to 0.85	5

Relays/Valves

Booster Relay **IL100/XT240**



- Used when the piping distance between the instrumentation and operational area is long, or when the operational area has a large capacity
- Can help accelerate actuation speed considerably

Series	Port size	Pressure ratio	Input/Output pressure [MPa]
IL100	Rc1/4, 3/8	1 : 1	0.7
XT240	Rc, NPT1/4 (IN), 1 (SUP, OUT)	1 : 1	0.7

Lock-Up Valve **IL201/211/220**



- The lock-up valve is used when any air source or air supply piping line failure occurs in the air operated process control line.
- Single acting, Double acting: Retains the pressure at the operating area as an emergency operation until the air source recovers to its normal state
- 3 port: Changes the supply port if a problem occurs

Series	Port size	Set pressure [MPa]	Shut-off pneumatic circuit pressure [MPa]
IL201/211/220	Rc1/4	0.14 to 0.7	0.7

Electro-Pneumatic Transducers

Electro-Pneumatic Transducer **IT600/601**



- Air pressure in proportion to the current signal can be output.
- Wide output pressure range: 0.02 to 0.6 MPa
- Fast response
- Independent electric unit/Explosion-proof (flameproof) construction
- Easy span adjustment

Series	Port size	Supply pressure [MPa]	Input current
IT600	Rc1/4	0.14 to 0.24	4 to 20 mADC
IT601	Rc1/4	0.24 to 0.7	4 to 20 mADC