Make you positive

SSS — *Asian leading company*

Safety Speed Satisfaction

SSS Co., Ltd.

ISO 9001

Xseries

POSI-POWER XE100
Electro/Pneumatic Positioner

POSI-POWER XP100
Pneumatic/Pneumatic Positioner

Features

Mounting kits interchangeable between E/P and P/P

Simple zero and range adjustment

Linear Motion (L type) and Rotary Motion (R type) are available

3 kinds of pilot relays. normal, steady, and fast

No resonance 5 to 200 Hz(2G)

Innovative design supports various mounting position

4 types characters are available with a single standard cam

Specification

XE

Specification	Single Acting	Double Acting
Input voltage/ resistance	Standard: 4 - 20 mADC/250 Ω Optional: 10 - 50 mADC/100 Ω (1/2 split range adjustment is also available.)	
Supply pressure	0.14 - 0.7 MPa (140 - 700 kPa)	
Stroke	Linear motion: 10 - 100 mm Rotary motion: 60° - 90°	
Air connection	Standard: Rc1/4 (Gauge Rc1/8) Option: NPT1/4 (Gauge NPT1/8)	
Power connection	G1/2 (PF1/2)	
Wiring method	Conduit method or Pressure-tight packing method	
*1 Pressure gauge (output pressure)	Standard: 0 - 0.2 MPa, 0 - 0.4 MPa, 0 - 1.0 MPa Option: kPa, psi, bar	
Housing	Standard: Junction box unit, Dust proof & Weather proof: IP65 Explosion-proof: ExdII BT6 Explosion-proof H2: Exd II + H2T6	
Cam	Standard: Linear and equal % characteristics Option: Non-linear characteristics	
*2 Ambient temperature	Standard: -20 - 83 ℃ Explosion proof Low temp. : -50 - 60 ℃ ExdII BT6: -20 - 60 ℃ High temp. : 0 - 100 ℃ Exd II + H2T6: -20 - 60 ℃	
Weight	Approx.2.2 kg	Approx.2.3 kg
Material	Basic : Aluminium Diecastings (Special Anodize)	Cover : PBT resin (Mixed Glass Fiber) Option : Diecastings (Special Anodize)

*1 Contact us for kPa, psi, bar displays.
*2 The explosion proof type is only available for the standard products.

XP

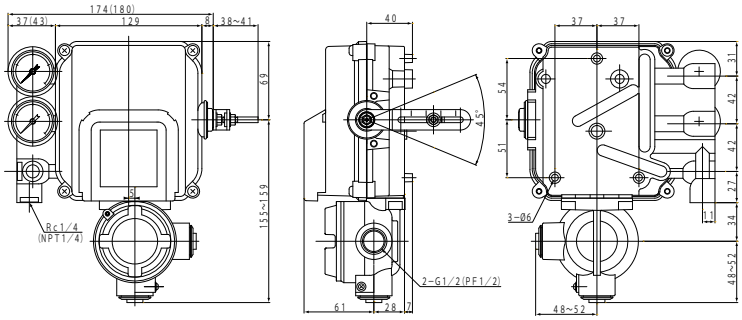
Specification	Single Acting	Double Acting
Input signal (pressure)	Standard: 20 - 100 kPa (1/2 split range adjustment is also availabe.)	
Supply pressure	0.14 - 0.7 MPa (140 - 700 kPa)	
Stroke	Linear motion: 10 - 100 mm Rotary motion: 60° - 90°	
Air connection	Standard: Rc1/4 (Gauge Rc1/8) Optional: NPT1/4 (Gauge NPT1/8)	
*1 Pressure gauge (output pressure)	Standard: 0 - 0.2 MPa, 0 - 0.4 MPa, 0 - 1.0 MPa Option: kPa, psi, bar	
Structure	Standard: Dust & Weather proof: IP54 (JIS C 0920-1993)	
Cam	Standard: Linear and equal % characteristics Option: Non-linear characteristics	
Ambient temperature	Standard: -20 - 83 ℃ Lower temp. : -50 - 60 ℃ Higher temp. : 0 - 100 ℃	
Weight	Approx. 1.3 kg	Approx. 1.4 kg
Material	Base:Aluminum Diecastings (Special Anodize)	Cover:PBT resin (Mixed Glass Fiber) Option:Diecastings (Special Anodize)

*1 Contact us for kPa,psi,bar displays.

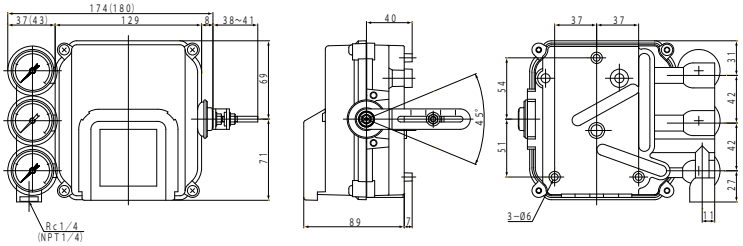
Dimension

Linear motion / Side lever type

XE1●●-SS1

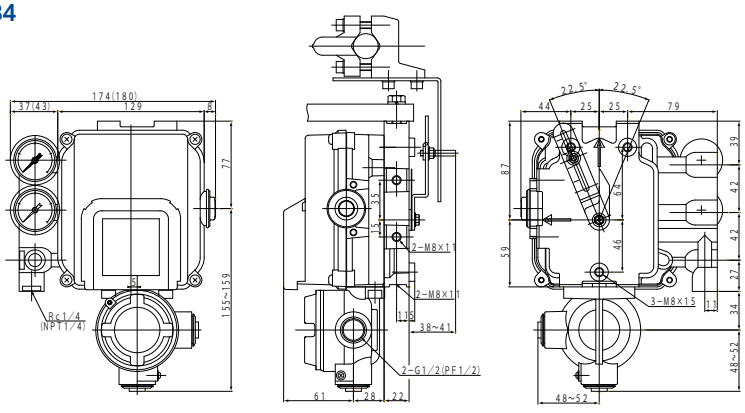


XP10●-SS1

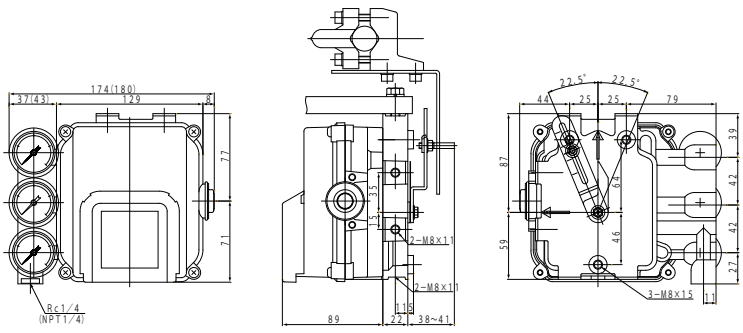


Linear motion / Back lever type

XE1●●-SB4



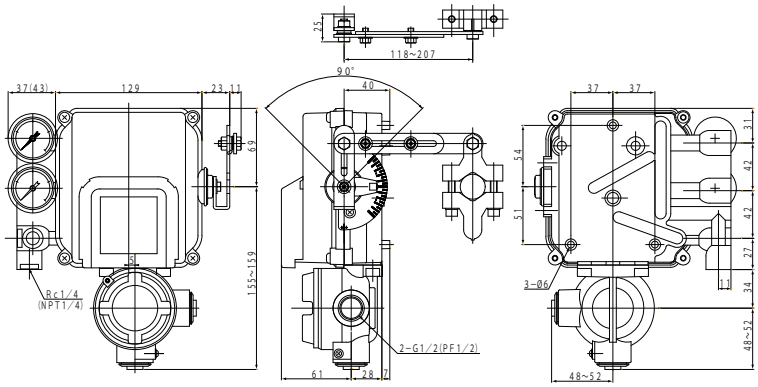
XP10●-SB4



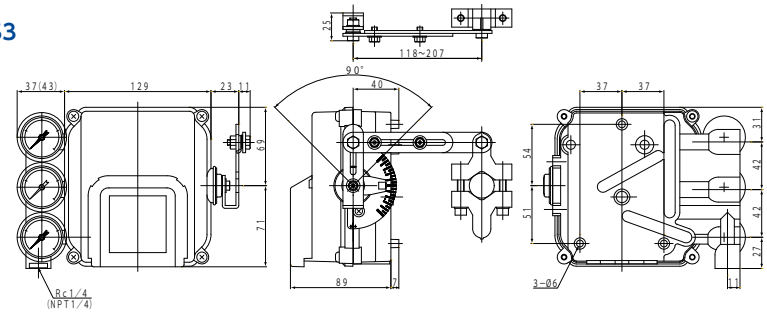
Dimension

Rotary motion / Linkage lever type

XE1●●-SS3

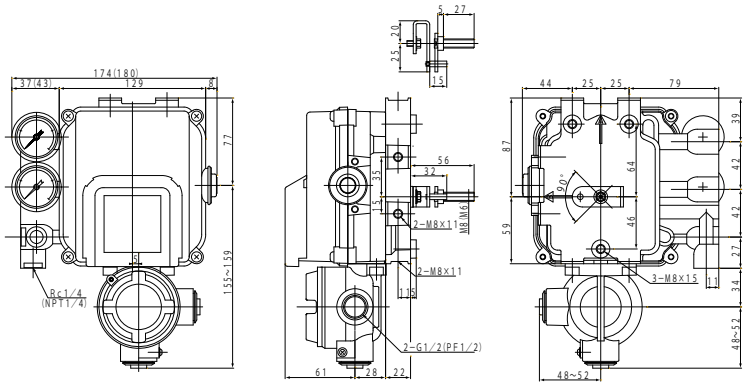


XP10●-SS3

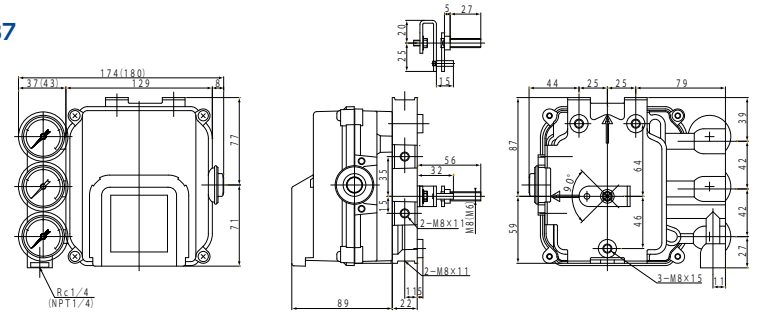


Concentric rotary motion / Back lever type

XE1●●-SB7



XP10●-SB7



Notation table

1	2	3	-	4	5	/	6	7	8	9

Specification		Definition	Code	
1	Basic code	XE100 - Flameproof IP65 enclosure XP100 - Dust & weatherproof IP65 enclosure	XE 1	XP 1
2	Housing	Non-explosion proof	0	0
		Flameproof IP65 ExdIIBT6 (TIIS) enclosure Supply pressure: 0.14 - 0.7 MPa / electric conduit entry: G1/2	5	
		Flameproof IP65 ExdIIB+H2T6 (TIIS) enclosure Supply pressure: 0.14 - 0.7 MPa / electric conduit entry: G1/2	6	
3	Connection & acting	Single acting, Rc 1/4	1	
		Double acting, Rc 1/4	2	
		Single acting, NPT 1/4	3	
		Double acting, NPT 1/4	4	
4	Ambient temperature	Standard: -20 - 60 ℃ (Flameproof) standard: -20 - 83 ℃ (Non-explosion proof)	S	
		Low temp construction: -50 - 60 ℃	L	
		High temp construction: 0 - 100 ℃	H	
5&9	Mounting & Cam	Linear motion / side lever type / 4 phases cam: linear & equal %	S1 / C1a	
		Rotary motion / linkage lever type / 2 phases cam: linear	S3 / C3L	
		Rotary motion / linkage lever type / 2 phases cam: equal %	S3 / C3E	
		Rotary motion / linkage lever type / 2 phases cam: square-low	S3 / C3B	
		Rotary motion / linkage lever type / 2 phases cam: reverse equal %	S3 / C3P	
		Linear motion / back lever type / 4 phases cam: linear & equal %	B4 / C4La	
		Rotary motion / top mount type / 2 phases cam: linear	B7 / C7L	
6	Outlet pressure gauge	0 - 0.2 Mpa, 0 - 0.4 Mpa, 0 - 1.0 Mpa	M2, M4, M0	
		0 - 200 kPa, 0 - 400 kPa, 0 - 1000 kPa	K2, K4, K0	
		0 - 30 psi, 0 - 60 psi, 0 - 150 psi	P2, P4, P0	
		0 - 2 bar, 0 - 4 bar, 0 - 10 bar	B2, B4, B0	
7	Pilot relay	Standard: with filter mesh protector ● Orifice size: 1: ϕ 5.0 mm, 2: ϕ 2.0, 4: ϕ 1.0, 5: ϕ 0.7, 6: ϕ 0.45	F ●	
		Standard: with cleaning pin ● Orifice size: 1: ϕ 5.0 mm, 2: ϕ 2.0, 4: ϕ 1.0, 5: ϕ 0.7, 6: ϕ 0.45	Q ●	
		Stable: with filter mesh protector ● Orifice size: 1: ϕ 5.0 mm, 2: ϕ 2.0, 4: ϕ 1.0, 5: ϕ 0.7, 6: ϕ 0.45	G ●	
		Stable: with cleaning pin ● Orifice size: 1: ϕ 5.0 mm, 2: ϕ 2.0, 4: ϕ 1.0, 5: ϕ 0.7, 6: ϕ 0.45	J ●	
		Quick speed: with filter mesh protector ● Orifice size: 1: ϕ 5.0 mm	R1	
		Quick speed: with cleaning pin ● Orifice size: 1: ϕ 5.0 mm	T1	
8	Input signal	4 - 20 mADC	M1	
		4 - 12 mADC	M2	
		12 - 20 mADC	M3	
		20 - 100 kPa		B1
		20 - 60 kPa		B2
		60 - 100 kPa		B3

ME series

ME1100 (with junction box)

ME1200 (without junction box)

Features

Easy Zero-Span adjustment

External Zero-adjustment

Easy PID setting

Suitable for any kinds of actuators

IP67 housing (dust-proof, water-proof)

Explosion-proof Exd II CT6

Position transmitter (option)

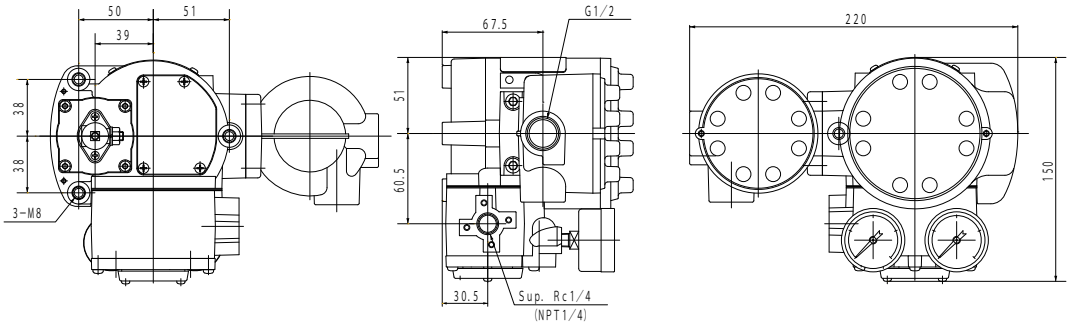
Specification

Specification	ME1100 Single-action type (with junction box)	ME1200 Single-action type (without junction box)	ME1100 Multi-action type (with junction box)	ME1200 Multi-action type (without junction box)
Signal input	4 - 20 mADC (inter-terminal pressure 6 VDC)			
Supply air pressure	140 kPa (1.4 kgf/㎠)			
Air connection	Rc1/4 (Gauge Rc1/8) Option: NTP1/4 (Gauge NPT1/8)			
Power connection	G1/2 (PF1/2) Option: NPT1/2			
Housing	Dust-proof, water-proof IP67 Nonincendive Exd Ⅱ CT6			
Weight	Approx. 2.9 kg	Approx. 2.4 kg	Approx. 2.9 kg	Approx. 2.4 kg
Material	Body & Cover: Aluminum diecasting (Anodize)			
Accuracy	1.0 % F.S			
Ambient temperature	Standard: -20 - 80 ℃ Intrinsically safe: -20 - 60 ℃ Nonincendive: -20 - 60 ℃			
Air consumption	At SUP 0.14 MPa, OUT 50 % : 3 Nℓ /min		At SUP 0.4 MPa, OUT 75 % : 10 Nℓ /min	
Output air capacity	At SUP 0.14 MPa: 90 - 100 Nℓ /min		At SUP 0.4 MPa: 180 - 200 Nℓ /min	

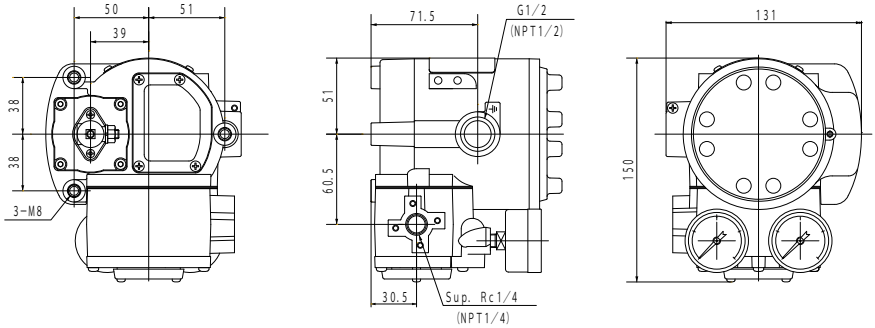
NB Please be aware that stated specifications are subject to change without notice.

Dimension

ME1100 (with junction box)



ME1200 (without junction box)



Notation table

1	2	3	4	-	5a	5b	6	7	8	9	10

Specification		Definition	Code
1	Basic code	ME1000	ME 1
2	Junction box	With junction box	1
		Without junction box (Non-explositon proof type only)	2
3	Housing	Non-explositon proof	0
		Explosion proof	6
4&7	Connection & Acting pilot relay	Single acting, Rc 1/4	1 / S
		Double acting, Rc 1/4	2 / W
		Single acting, NPT 1/4	3 / S
		Double acting, NPT 1/4	4 / W
		Single acting, Rc 1/4 with valve open signal function	5 / S
		Double acting, Rc 1/4 with valve open signal function	6 / W
		Single acting, NPT 1/4 with valve open signal function	7 / S
		Double acting, NPT 1/4 with valve open signal function	8 / W
5a	Ambient temperature	Standard: -20 - 80 ℃ Explosion proof: -20 - 60 ℃	S
5b	Mounting	Linear motion	B4
		Rotary motion	B7
6	Outlet pressure gauge	0 - 0.2 Mpa, 0 - 0.4 Mpa, 0 - 1.0 Mpa	M2, M4, M0
		0 - 200 kPa, 0 - 400 kPa, 0 - 1000 kPa	K2, K4, K0
		0 - 30 psi, 0 - 60 psi, 0 - 150 psi	P2, P4, P0
		0 - 2 bar, 0 - 4 bar, 0 - 10 bar	B2, B4, B0
8	Input signal	4 - 20 mADC	M1
		4 - 12 mADC	M2
		12 - 20 mADC	M3
9	Characteristics	Linear	L
		Equal %	E
		Square low	B
10	Feedback lever	Back lever for linear motion	L
		Linkage lever for rotary motion	K
		Concentric lever for rotary motion	V

TE series

TE100 (with junction box)

TE200 (without junction box)

Features

Small and lightweight design

Low air consumption

Filter regulator directly attached (without piping)

Easy Zero-Span adjustment

Auto / manual function

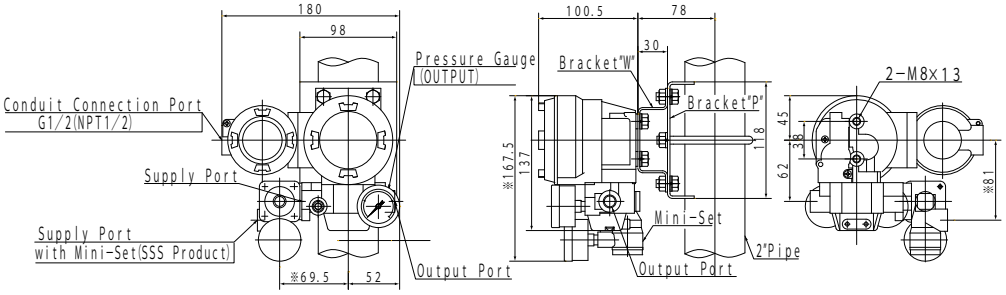
Easy mounting brackets (wall or pipe)

Specification

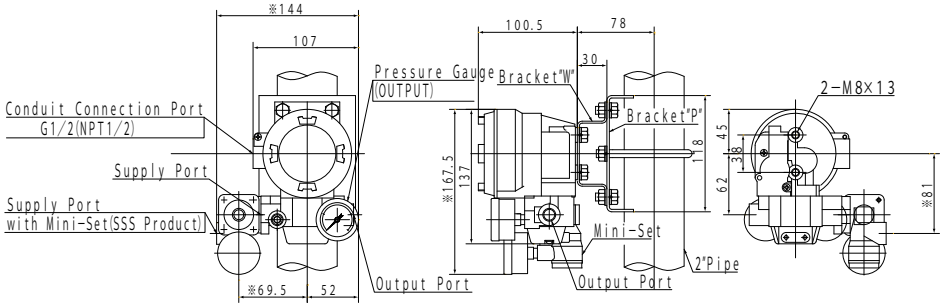
Specification	TE100 (with junction box)	TE200 (without junction box)
Supply air pressure	20 psi 140 kPa (1.4 kgf/㎠)	
Output pressure	3 - 15 psi 20 - 100 kPa (0.2 - 1 kgf/㎠)	
Input signal	4 - 20 mADC	
Accuracy	Accuracy: ± 0.2 % Hysteresis: ± 0.2 % Repeatability: ± 0.1 %	
Required operating voltage	6.5 VDC @20 mADC	
Output air capacity	Max. 40 Nℓ/min	
Air consumption	3 Nℓ/min (4 Nℓ/min: with a filter regulator integrated)	
Ambient temperature	Standard: -22 - 176 ℉ (-30 - 80 ℃)	
	Explosion proof (Exd Ⅱ BT6): -4 - 140 ℉ (-20 - 60 ℃)	———
Air connection	Standard: Rc 1/4 (Gauge Rc 1/8), Option: NPT 1/4 (Gauge NPT 1/8)	
Electrical wire connection	Standard: G1/2, Option: NPT 1/2	
Housing	Standard: dust proof and weather proof (IP54) Temp class: T4. NEMA 4X. Vmax=29 V, Imax=96, 1 mA Pmax=0.7 W, Ci=0 μ F, Li=50 μ H	
Weight	Approx. 3.5 lbs (1.8 kgs) (3.9 lbs with a filter regulator integrated)	Approx. 2.8 lbs (1.3 kgs) (3.2 lbs with a filter regulator integrated)
Material (case and cover)	Aluminum Diecastings (ADC12)	

Dimension

TE100 (with junction box)



TE200 (without junction box)



Notation table

1	2	3	-	4	5	/	6	7	8	9

Specification		Definition	Code
1	Basic code	TE100 - Dustproof and weatherproof (IP54) with junction box	TE 1
		TE200 - Dustproof and weatherproof (IP54) without junction box	TE 2
2	Housing	Non-explositon proof	0
		ExdIIB T6X (TIIS) Explosion proof model	5
3&9	Air/Electrical connection	Rc 1/4 G 1/2	1 / R1
		NPT 1/4 G 1/2	3 / N1
		NPT 1/4 NPT 1/2	5 / N1
4	Ambient temperature	Standard: -20 - 60 ℃	S
		ExII BT6: -20 - 60 ℃	
5	Auto-Manual function	Manual	M
6	Pressure gauge	0 - 200 kPa	K2
		0 - 0.2 Mpa	M2
		0 - 30 psi	P2
		0 - 2 bar	B2
7	Pressure gauge	None	G0
		Outlet only	G1
		Supply & Outlet	G2
8	Input signal	4 - 20 mADC	M1
		4 - 12 mADC	M2
		12 - 20 mADC	M3
		User's specified	M4

XR100

Features

- Compact and lightweight
- No Bracket Required
- 2 air supply inlets and 3 air outlets available
- Built-in Drain Plug
- Large exhaust power
- Polypropylene cloth-free filter
- Panel mounting hole provided

Specification

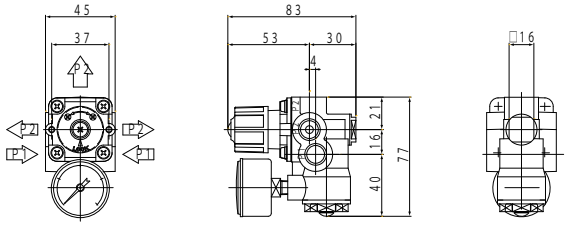
Specification		XR100
Ambient temperature		-4 - 158° F (-20 - 70 ℃)
Pressure range		0 - 30 psi, 0 - 60 psi, 0 - 120 psi (0 - 2 kgf/㎠ , 0 - 4 kgf/㎠ , 0 - 8 kgf/㎠)
Output pressure gauge		30 psi, 60 psi, 150 psi (2 kgf/㎠ , 4 kgf/㎠ , 10 kgf/㎠)
Air connection (pressure gauge)		NPT1/4, PT1/4 (NPT1/8, PT1/8)
Filter element	Material	Polypropylene cloth-free filter 5 μ Element D=20 mm, H=30 mm
	Air resistance (Approx.)	0.22 psi at 3.54 scfm 0.66 psi at 10.62 scfm 1.32 psi at 21.24 scfm
Air Consumption (Max.): Pressure setting		0.018 scfm: 20 psi 0.022 scfm: 35 psi 0.025 scfm: 60 psi
Max. air supply pressure		130 psi (9 kgf/㎠)
Weight		1 Outlet: 0.53 pounds (Approx.) 3 Outlet: 0.58 pounds (Approx.)
Material		Body: Aluminum Diecasting Bonnet: Aluminum Diecasting (Special Anodize)

Notation table

1	2	-	3	/	4	5

Specification		Definition	Code
1	Basic code	Filter element: polypropylene cloth filter, 5 μ element Max. supply air pressure: 900 kPa	XR 10
2	Pressure range	200 kPa (0.2 MPa)	2
		400 kPa (0.4 MPa)	4
		800 kPa (0.8 MPa)	8
3	Ambient temp.	Standard: -20 - 83 ℃	S
		High temp construction: 0 - 100 ℃	H
4	Outlet pressure gauge	0 - 0.2 Mpa, 0 - 0.4 Mpa, 0 - 1.0 Mpa	M2, M4, M0
		0 - 200 kPa, 0 - 400 kPa, 0 - 1000 kPa	K2, K4, K0
		0 - 30 psi, 0 - 60 psi, 0 - 1000 kPa	P2, P4, P0
		0 - 2 bar, 0 - 4 bar, 0 - 10 bar	B2, B4, B0
5	Connections	Air connection PT 1/4, 3 outlets	J3
		Air connection NPT 1/4, 3 outlets	U3

Dimension

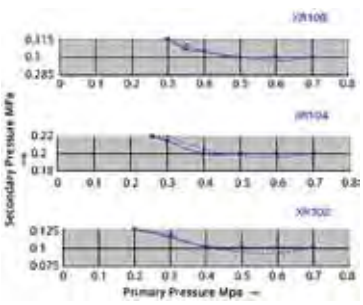


(1) P1 P2
Supply pressure connection inlet Outlet pressure connection outlet
※Unused connection outlets should be fitted with the attached blind plug.
(2) Connection outlet is NPT1/4 or PT1/4
(3) Pressure gauge connection outlet is NPT1/8 or PT1/8
(4) A pressure gauge with a diameter of up to 43mm is connectable(Option)

Characteristics

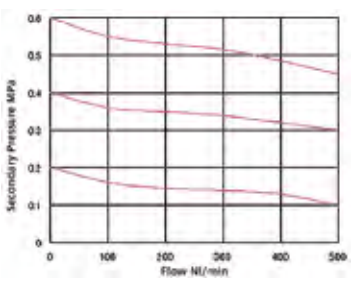
REGULATION CHARACTERISTICS

Primarily Set Press. : 5 kgf/㎠ (72 psi)



FLOW CHARACTERISTICS

Prim. press. : 6 kgf/㎠ (86 psi)



AS200

Features

Different 3 function in 1 body

「SOURCE」 Mode
Emit a current signal of 4 - 20 mA or 1 - 5 V.
Functions as follows are available;
*Signal: 4 - 20 mA or 1 - 5 V
*Step: 25 % step or 0.01 mA step
*Display: in mA or %

「READ」 Mode (option)
Display 4 - 20 mA current of circuit.

「RECEIVE」 Mode
Display output signal of two-wire-system transmitters, e.g. positioners, without external electric power provision.

「TWO-WIRE」 Mode (option)
Available for loop testing of two-wire-system transmitters.

LED light automatically on in response to ambient brightness

Selectable load high limit: 500 Ω or 750 Ω

Specification

Specification			Non-Rechargeable battery (AS100/AS101)	Rechargeable battery (AS110/AS111)
Accuracy			SOURCE Mode ± 0.1 % F.S, RECEIVE & READ Mode ± 0.15 % F.S	
Input/Output Range	SOURCE Mode		0 - 23 mA (−25 - 119 %)	
	READ Mode		0 - 24 mA (−25 - 125 %)	
Drive lode capacity			L load mode: 500 Ω MAX / H load mode: 750 Ω MAX	
Display (LCD)			3,1/2	
Temperature influence			50 PPM (TYP.) /℃	
*1 Battery life (non-rechargeable battery)	SOURCE Mode	L load mode	Approx. 8 hours/Full output	
		H load mode	Approx. 5 hours/Full output	
	RECEIVE Mode		Approx. 8 hours in L load mode / Approx. 5 hours in H load mode	
	READ Mode		Approx. 50 hours	
Battery			Non-Rechargeable battery (9 V, 006 P) × 1	Rechargeable battery (1.2 V × 4)
Recharging time			—	(After total use of energy) approx. 7 hours
Ambient recharging temperature			—	0 - 40 ℃
Length of rechargeable battery life			—	Approx. 3 years
Ambient operating temperature			0 - 50 ℃	
Ambient storage temperature			-20 - 70 ℃	
Dimemsions			145 × 80 × 40	
Weight			320 g (Approx.)	350 g (Approx.)
Accessories			Connecting cord / Carrying case / Non-Rechargeable battery or rechargeable battery	
			Option: AC adaptor (9 V, 300 mA)	

*1 Depends on battery capacity and ambient temperature.

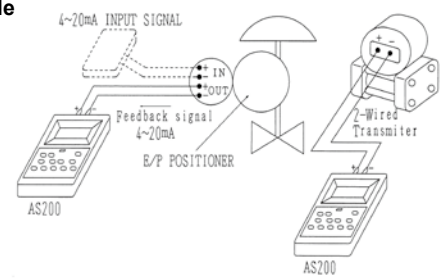
Notation table

1	2	3	-	4

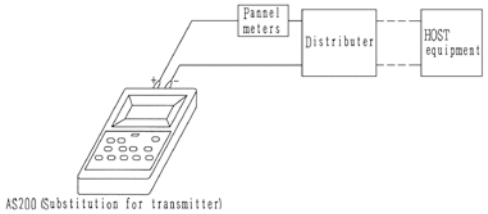
	Specification	Definition	Code
1	Basic code	Current signal generator	AS 2
2	Battery	Non-Rechargeable battery	0
		Rechargeable battery	1
3	Mode	READ type	0
		2 Wire type	1
4	AC adaptor	Without AC adaptor	S 0
		With AC adaptor	S 1

Connection

RECEIVE Mode



TWO-WIRE Mode



XB series

XB100

Features

- Flow characteristics suitable for valves
- Secondary pressure partition plate (seal plate) to detect stable secondary pressure
- Built-in bypass valve for adjusting sensitivity of the
- Filter for both supply pressure side and signal pressure
- Stainless steel both and nuts for all the exposed

Specification

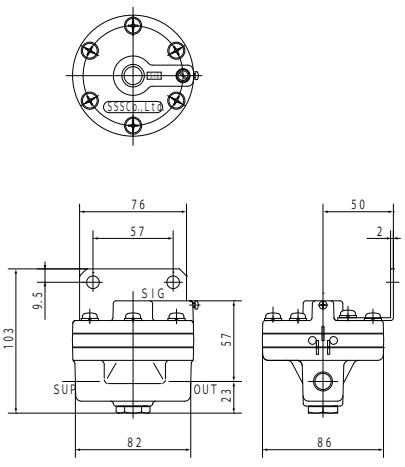
Specification	XB100
Max. supply pressure	1.03 MPa
Max. signal pressure	1.03 MPa
Max Cv.	1.2
Temperature limits	-30 - 83 ℃
	-50 - 100 ℃ (optional)
In/Out ratio	1:1
Connection	Rc 1/4 Option: NPT 1/4
Net weight	0.6 kg

Notation table

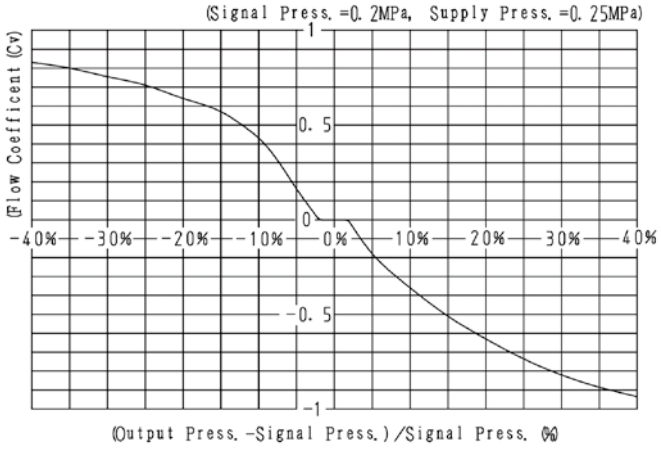
1	2	3	4

Specification		Definition	Code
1	Basic code	Max. input air pressure: 1.03 MPa, Max. supply air pressure: 1.03 MPa, Max. Cv : 1.2	XB 1
2	Ambient temperature	-30 - 83 ℃	0
		-55 - 60 ℃	1
		0 - 100 ℃	2
3	Air connection	Rc 1/4	1
		Rc 3/8	2
		NPT 1/4	3
4	Mounting bracket	With bracket	B
		Without bracket	N

Dimension



Characteristics



XB200

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Features

Large Cv suitable for large valves

Secondary pressure partition plate to ddetect stable secondary pressure

Built-in bypass valve for adjusting sensitivity

Filter for both supply pressure side and signal pressure

Stainless steel both and nuts

Specification

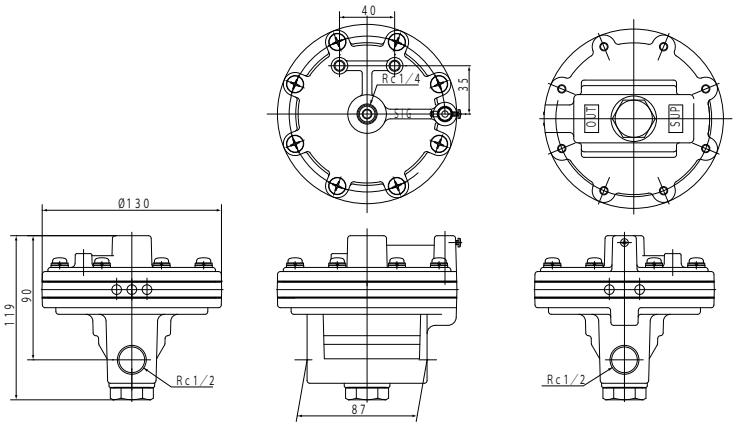
Specification	XB200
Max. supply pressure	0.99 Mpa
Max. signal pressure	0.99 Mpa
Max Cv.	2.6
Ambient temperature	-30 - 83 ℃ Option: -50 - 100 ℃
In/Out ratio	1:1
Connection	Rc 1/2 Option: NPT 1/2
Net weight	1.5 kg

Notation table

1	2	3	4

Specifications		Definition	Code
1	Basic code	Max. input air pressure: 0.99 MPa, Max. supply air pressure: 0.99 MPa, Max.Cv : 2.6	XB 2
2	Ambient temperature	-30 - 83 ℃	0
		-55 - 60 ℃	1
		0 - 100 ℃	2
3	Pneumatic connection	Rc 1/2	1
		NPT 1/2	2
4	Mounting bracket	With bracket	B
		Without bracket	N

Dimension



Company Profile

SSS was established in 1986 in Tokyo, Japan as a unique specialist-manufacturer of valve positioners. We have been in service for 25 years and produced more than 500,000 units to date.

We are highly trusted in Japanese industry because of high quality in products and service based on 25 years of experience. Our products - E/P and P/P positioners, digital positioners, I/P converters and peripherals - are used in various industries. Petrochemical, Chemical, Steel, Pulp & Paper, Power & Gas, and more. Our products are often selected especially in hard-duty environment.

We have so much technological know-how that our products can be attached to a variety of different valve actuators.

We also serve various countries. We are willing to support our customers anywhere in the world.

Location

SSS Head office and factory are located at Tokyo, Japan. This is our main manufacturing site and most of our product is manufactured here.

We have 3 sales branches at Ibaraki, Osaka and Hiroshima. All these branches are working cooperating with distributors, and our service is broadly covering customers all over Japan.

We have one subsidiary company in Shanghai. This site is also manufacturing some of our products, and covering Chinese market.

Key Figures

- **Head office and factory in Tokyo**
- **3 other branches in Japan and a subsidiary in Shanghai**
- **Employees: 61**
  - Board & General Administration: 4
  - Sales: 11
  - Engineer: 10
  - Production & Procurement: 36
- **OEM contracts: 14 in Japan (and an agency in Taiwan)**
- **Our products are used in 27 countries**

SSS OEM Customers

SSS is the number one OEM supplier in Japanese positioner industry. We have OEM contracts with 14 companies including leading Japanese valve manufacturers, with which we have been in long trusted relationship. We are very proud that many of our customers are satisfied with our high quality products and service.

Customer
Dresser Japan (Formerly Masoneilan)
KITZ
YKV
Tyco Flow Control Japan (Formerly KTM)
Tomoe Valve
Motoyama Engineering
CCI
Toko Valex
Nippon Dia Valve
CKD
Yamatake
OKM
Asahi-Yukizai
Konan Electric

Sales Record

Since 1986 our establishment, we have produced more than 500,000 units to date. They are broadly used in Japan or in Asian nations nowadays.

Our customer is in various field. Petrochemical, chemical, steel, pulp & paper, power, and more. Even in hard-duty environment, our product is trusted and selected by customers.

SSS product, is also used in various countries in the world. We are willing to support our customers anywhere in the world.

Domestic (Japanese) end users.

- **Petrochemical**
  - JX (formerly Japan Oil), Idemitsu, Showa Shell, Cosmo Oil, etc.
- **Chemical**
  - Mitsubishi, Sumitomo, Mitsui, Asahi Kasei, Shin-Etsu, etc.
- **Steel**
  - Nippon Steel, JFE, Sumitomo Metal, Kobe Steel, etc.
- **Pulp & Paper**
  - Oji Paper, Nippon Paper, Daio Paper, Rengo, etc.
- **Power**
  - Tokyo Electric Power, Osaka EP, Tokyo Gas, etc.

Overseas sales

Asia-Pacific
China, Taiwan, South Korea,VietNam, Philippines, Singapore, Thailand, India, Indonesia, Malaysia, Myanmar, Pakistan, Turkey

Middle East
Iran, Qatar, Saudi Arabia, UAE

Europe
Denmark, Germany, Portugal, Spain, Switzerland, UK

Other
Canada, Chile, USA, Zambia

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