PREX3000 Vector Involute Type Pneumatic Pressure Transmitters Model KKP 15/16/17/18 (Low Gauge Pressure)



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The PREX3000 instruments are pneumatic type transmitters which employ a combination of vector balance mechanism and involute mechanism.

The instruments are featured by high resistance against adverse environments, high turn-down ratio, high accuracy, and ease of maintenance.

Item		Specifications										
Measuring range (continuously adjustable)	KKP 15: 0-35 to 0-686 kPa {0-0.35 to 0-7 kgf/cm²} KKP 16: 0-10 to 0-196 kPa {0-0.1 to 0-2 kgf/cm²} KKP 17: 0-3.4 to 0-66.6 kPa {0-25 to 0-500 mmHg} KKP 18: 0-0.7 to 0-13.3 kPa {0-5 to 0-100 mmHg}											
Working pressure, Overload protection,	Model No.	Model No. Working pressure KKP 15 -0.1 to +1 05MPal-1 to +10.5kgt/cm ² 3				Overload protection			Process connection			
Process connection (refer to note.)	KKP 16 KKP 17	KKP 16 -100kPa to +300kPa(-1 to +3kglcm²) KKP 17 -66 6kPa to +66 6kPa(-500 to +500mmHg)				400 kPa {4 kgf/cm²}			Rc 1/2 or 1/4 internal thread, 1/2 or 1/4 NPT internal thread			
Air supply connection	KKP 18	I			nrigi (OU KP8 (4 Kg	(/cm²)					
Air supply pressure	140±14 kPa {1.4±0.14 kqf/cm²}											
Output	20–100 kPa	20–100 kPa {0.2–1.0 kgf/cm²}										
External load	ID 4 mm × Length 3 m+20 cc or over											
Air supply capacity	20NL/minute or over, with 6.7 kPa {50 mmHg} change											
Air consumption	5NL/minute or less (when balanced at output 100%)											
Accuracy, Dead band	Model No. KKP 15 (kPa (kgf/cm²)) KKP 16 (kPa (kgf/cm²)) KKP 17 (kPa (mmHg)) KKP 18 (kPa (mmHg))								-lg})			
	Span		35 (0.35) to less than 70 (0.7)	70 (0.7) or over	10 (0.1) to less than 20(0.2)	20 {0.2} or over	3.4 (25) to less than 6.8(50)	6.8 (50) or over	0.7 (5) to less than 1.4(10)	1.4 {10} to less than 9.8(70)	9.8 {7(or over	
	Accuracy (9 Dead band		±1 0.	±0.5	±1	±0.5	±1	±0.5	±1	±0.5	±0.7	
Operating temperature	Meter body (process fluid): —40 to +120°C Transmitter (ambient): —30 to +80°C											
Operating humidity	10 to 90% RF	+	***************************************									
Construction	Dustproof an	Dustproof and waterproof, meets IEC IP54, NEMA Type 3R, JIS F8001 Class 3 splashproof, JIS C0920 rainproof										
Materials	Bellows: SUS 316 Wetted parts gasket: Teflon Cover: Carbon steel (SF45A) or SUS316 Transmitter case: Aluminium alloy											
Finish	Acryl baking finish Color: Light beige (munsell 4Y7.2/1.3)											
Viounting	On vertical or horizontal 2-inch pipe.											
Net weight	KKP 15/16; Approx. 5.5 kg (add 0.8 kg for air-set). KKP 17/18; Approx. 8 kg (add 0.8 kg for air-set).											

Optional Specifications

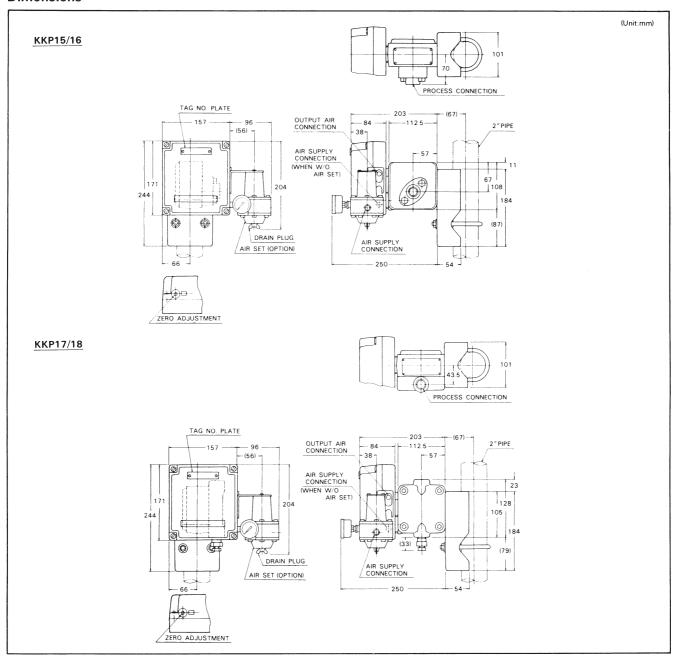
Item	Specifications								
(1) Suppression and elevation									
			Suppression	Spring A	Spring B	Working			
	Model No.	Span	(max.)	Elevation (max.)	High Elevation	Pressure (max.)	Unit		
	KKP 15	35 to 686(0.35 to 7)	100 (1)	600 (6)	600 to 1015(6 to 10.15)	1050 {10.5}	kPa (kgf/cm²)		
	KKP 16	10 to 196{0.1 to 2}	-100 (-1)	180 {1.8}	180 to 290(1.8 to 2.9)	300 {3}	kPa {kgf/cm²}		
	KKP 17	3.4 to 66.6(25 to 500	-66.6(-500)	63.2 (475)	_	66.6 (500)	kPa (mmHg)		
	KKP 18	0.7 to 13.3{5 to 100}	-13.3{-100}	12.6 (95)	_	13.3 {100}	kPa (mmHg)		
	(note: elevation+span≤maximum operating pressure)								
(2) Air-set (filter and pressure regulator)	Primary press Secondary pr Filter mesh di	essure: 140	200 to 90 kPa {2 to 9.9 kgf/cm²} 140 kPa {1.4 kgf/cm²} 5 microns						
			1/4 or 1/4NPT internal thread						

Optional Semi-standard Specifications

ltem	Specifications						
(1) Steam block (Y29)	Maximum working pressure: 5 MPa {50 kgf/cm²} Maximum operating temperature: 250°C (except meter body whose temperature must not exceed 120°C) Steam piping connections: Rc 1/4 or 1/4 NPT internal thread Material of block: Carbon steel (SF45A)						
(2) SUS304 bolts for meter body clamping (Y66)	Working pressure: The same as the standard specifications. (applicable to model KKP15 and KKP16 type)						
(3) Oil free (Y67)	Wetted parts treatment: Treated for degreasing						
(4) Corrosion-resistant and silver finish (Y138)	Corrosion resistant (acryl baking) finish (Y138A): Resistant against corrosive gases. Corrosionproof (epoxy baking) finish (Y138B): Resistant against corrosive liquids. Silver-normal (acryl baking) finish (Y138C): To prevent temperature rise of instrument caused by direct sunlight or radiation from other source of heat. Silver-corrosion-resistant (acryl baking) finish (Y138D): To prevent temperature rise the same as above, plus resistance against corrosive gases. (note: silver finish is not applicable for alkaline gases.)						
(5) Output pressure gauge (Y185)	Pressure gauge (100 mm diameter) OUTPUT GAUGE(\$\phi\$100) TRANSMITTER						
(6) High vibration resistant type (Y188)	8) High vibration resistant type with dashpot.						

Model Number Table Ex: KKP15-22A1-5, 7

Basic Model No.		Cover Bellows Mat'l Mat'l		Air Piping	Pressure unit /	Options	Description	
Model No.	Span	IVIALI	Mat'l	Connections	Output	·		
KKP 1							Pressure transmitter	
	5						0-35 to 0-686 kPa {0-0.35 to 0-7 kgf/cm²}	
	6						0-10 to 0-196 kPa {0-0.1 to 0-2 kgf/cm²}	
	7						0-3.4 to 0-66.6 kPa {0-25 to 0-500 mmHg}	
	8						0-0.7 to 0-13.3 kPa {0-5 to 0-100 mmHg}	
		-1					Carbon steel (SF45A) [KKP17, 18 only]	
		-2					SUS316	
			2				SUS316	
				А			Rc 1/4 internal thread	
				В			1/4 NPT internal thread	
					1		kgf/cm² (or mmH ₂ O) / 0.2 to 1.0 kgf/cm²	
					2		PSI / 3 to 15 PSI	
					3		bar / 0.2 to 1.0 bar	
					4		Pa / 20 to 100 kPa	
Note) When ordering "Y" options, please write as: KKP15-22A1-5,7 (Y □).					8		Pa / 19.6 to 98.1 kPa (equality to 0.2 to 1.0 kgf/cm²)	
						_X	No option	
						-5	Elevation or High elevation	
						-6	Suppression	
						7	Air-set	



Ordering Information

When ordering, please specify:

- 1) Model No.
- 2) Measuring range

Note) PREX3000 Transmitter covers a wide measuring range. At a span close to the minimum range point, however, the instrument exhibits particular characteristics. When operating the instrument at this span, refer to Instrumentation Data Sheet ID2-522-002.

- 3) Optional specification
- 4) Optional semi-standard specification

Note) For any combination of two or more Y-specification items, please consult an Azbil Corp. agent.

Reference instruction manual · · · OM2-5220-0000/
OM2-5240-1100

Please read the "Terms and Conditions" from the following URL before ordering or use: http://www.azbil.com/products/bi/order.html

Specifications are subject to change without notice.



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