KF Series
Differential Pressure Indicating Controller
Model KFD

OVERVIEW

The KF Series instruments are field installed type of pneumatic indicating controllers which are used to measure and control the various types of process variables such as differential pressures (flows), temperatures, pressures and liquid levels.

Model KFD Differential Pressure Indicating Controllers (adjustable range type) indicate and control a process variable by converting its differential-pressure change into mechanical displacement of a torque tube or a torque arm.

Indicating transmitters and indicating transmitting controllers also are available as well as indicating controllers. The controllers are available either in the local type to set the set-point value with the knob on the instrument or in the cascade type (remote type) to set the set-point value with a pneumatic signal.

FEATURES

- A wide variety of measuring elements and control mechanisms are available to meet various applications.
- A pneumatic circuit board and a heat-resistant weatherproof sturdy case are used, thereby greatly improving the durability and reliability.
- The pneumatic circuit board system allows to readily add or eliminate control mechanisms and units, thereby enhancing the system modifications and expansion flexibility
- Interchangeable parts are used to the maximum practicable extent, thereby reducing the number of parts to be kept in stock.
- The detecting section is identical with that of the pressure transmitter of PREX3000 Pneumatic Transmitter Series.

SPECIFICATIONS

Standard specification

Item			Specifications				
Detector Section							
Model No.	Type of detector	Measuring range (continuously adjustable)	Process connection	Pressure limit	Overload protection	Suppression (max.)	Elevation (max.)
11	Standard type	0-25 to 0-500 kPa {0-2,500 to 50,000 mm H_2O}	Rc ½ or ½ NPT internal thread {center to center: 54 mm}	-50 kPa to 10 MPa {-0.5 to 100 kgf/cm^2} (PVC cover; -10 kPa to 1 MPa{-0.1 to 10 kgf/cm^2})	To 10 MPa {100 kgf/cm^2} in either direction.	500 kPa {50,000 mm H_2O}	475 kPa {47,500 mm H_2O}
22		0-2.5 to 0-53.9 kPa {0-250 to 5,500 mm H_2O}				53.9 kPa {5,500 mm H_2O}	51.4 kPa {5,250 mm H_2O}
33		0-0.5 to 0-6 kPa {0-50 to 600 mm H_2O}	Rc ½ or ½ NPT internal thread (center to center: 54 mm, PVC cover : 71 mm)	-50kPa to +3.5 MPa {0.5 to 35 kgf/cm^2} (PVC cover; -10kPa to 1 MPa{-0.1 to 10 kgf/cm^2}	To 3.5 MPa {35 kgf/cm^2} in either direction.	6 kPa {600 mm H_2O}	5.5 kPa {550 mm H_2O}
44		0-0.1 to 0-1.2 kPa {0-10 to 120 mm H_2O}	Rc ½ or ½ NPT internal thread (center to center: 54 mm)	-1.5kPa to + 0.5 MPa {-150mm H_2O to +5 kgf/cm^2}	To 0.5 MPa {5 kgf/cm^2} in either direction.	1.2 kPa {120 mm H_2O}	1.1 kPa {110 mm H_2O}
61	Flange type	0-25 to 0-500 kPa {0-2,500 to 0-50,000 mm H_2O}	HP side: Flange Flush diaphragm type; 80 mm -JIS10K,30K(RF)equiv. flange 3 in. ANSI 150, 300(RF)equiv. flange Extended diaphragm type; 100 mm-JIS10K,30K(RF) equiv.flange 4 in.-ANSI150,300(RF) equiv.flange Length of extended part; 100 or 150 mm	-50 kPa {-0.5 kgf/cm^2} to maximum flange rated pressure.	To maximum flange rated pressure in either direction.	500 kPa {50,000 mm H_2O}	475 kPa {47,500 mm H_2O}
62		0-2.5 to 0-53.9 kPa {0-250 to 0-5,500 mm H_2O}	LP side;Rc ½ or ½ NPT internal thread			53.9 kPa {5,500 mm H_2O}	51.4 kPa {5,250 mm H_2O}
71	Remote seal diaphragm type	0-25 to 0-500 kPa {0-2,500 to 0-50,000 mm H_2O}	Flange connection(both HP and LP side) Flush diaphragm type ; 80mm -JIS10K,30K(RF) equiv.flange 3 in.- ANSI 150, 300(RF) equiv. flange Extended diaphragm type; 100 mm -JIS10K,30K(RF) equiv.flange 4 in.-ANSI150,300(RF)equiv.flange Length of extended part; 100 or 150 mm	-50 kPa {-0.5 kgf/cm^2} to maximum flange rated pressure. (PVC cover; -10 kPa to +1.5 Mpa {-0.1 to 15 kgf/cm^2} or maximum flange rated pressure.)	To maximum flange rated pressure in either direction.	500 kPa {50,000 mm H_2O}	475 kPa {47,500 mm H_2O}
72		0-25 to 0-53.9 kPa {0-250 to 0-5,500 mm H_2O}				53.9 kPa {5,500 mm H_2O}	51.4 kPa {5,250 mm H_2O}
81	High Static pressure type	0-25 to 0-500 kPa {0-2,500 to 0-50,000 mm H_2O}	• Rc ¼ or ¼ NPT internal thread (center to center : 64 mm) • When with manifold..... ½ in. socket welding (center to center : 110 mm)	-50 kPa to 42 MPa {-0.5 to 420 kgf/cm^2}	42 MPa {420 kgf/cm^2} in either direction.	500 kPa {50,000 mm H_2O}	475 kPa {47,500 mm H_2O}
82		0-2.5 to 0-53.9 kPa {0-250 to 0-5,500 mm H_2O}				53.9 kPa {5,500 mm H_2O}	51.4 kPa {5,250 mm H_2O}

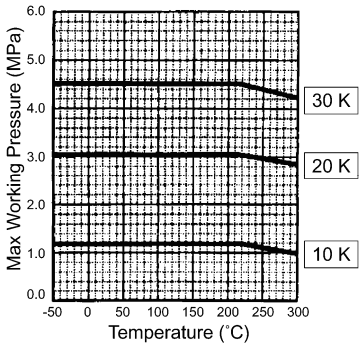
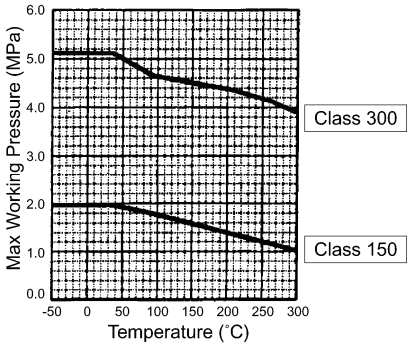
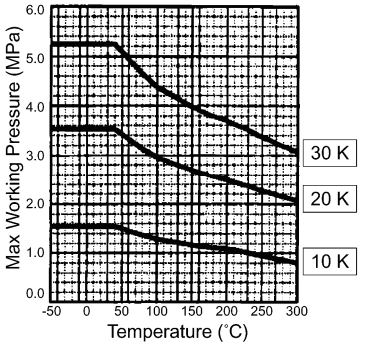
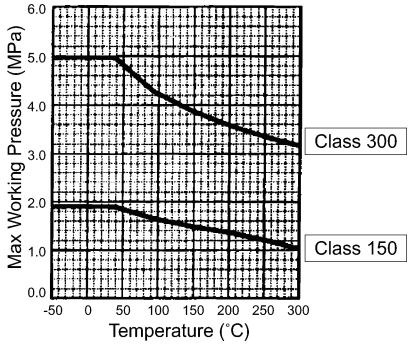
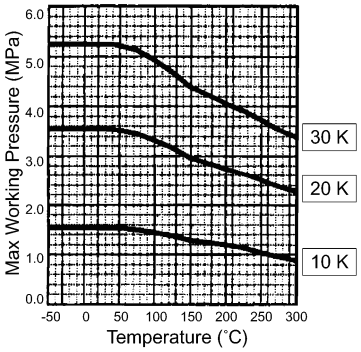
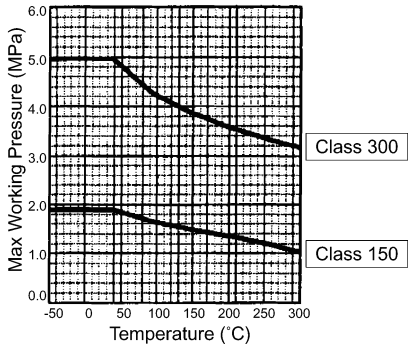
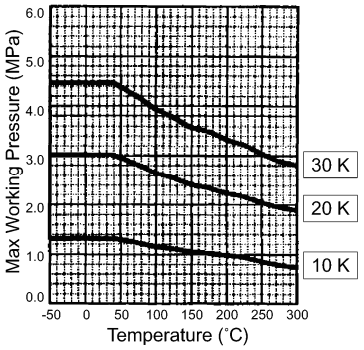
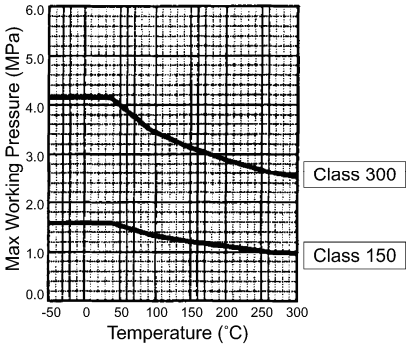
Note 1) Elevation + Span ≤ Maximum span, Suppression ≤ Maximum span.

2) Refer to the annexed table about Max. working pressure on Flange and remote seal type.

Max working pressure

Note 1 : Max working pressure depends on flange rating, flange materials and operating temperature. Please refer to the following data. Operating range of temperature depends on specification of transmitters.

Note 2 : In case of remote sealed type (KKP75, KFKB□□-75), Max working pressure depends on the smaller value of either 1.05 MPa or following data.

	JIS	JPI/ANSI
Carbon Steel		
SUS304		
SUS316		
SUS316L		

Standard Specification (Continued)

Item	Specification
Function	

Model no.	Measuring range kPa (mmH_2O)	
Accuracy		
KFDB□□ 11	0 - 25 to 0-less than 50 {0-2,500 to 0-less than 5,000}	0 - 50 to 0 - 500 {0 - 5,000 to 0 - 50,000}
KFDB□□ 22	0 - 2.5 to 0-less than 5 {0-250 to 0-less than 500}	0 - 5 to 0 - 53.9 {0 - 500 to 0 - 5,5000}
Transmitting / Indicating	± 0.75 / ±1.0 (±1.25) % FS*1	± 0.5 / ± 1.0 % FS
KFDB□□ 33	0 - 0.5 to 0-less than 1 {0-50 to 0-less than 100}	0 - 1 to 0 - 6 {0 - 100 to 0 - 600}
KFDB□□ 44	0 - 0.1 to 0-less than 0.2 {0-10 to 0-less than 20}	0 - 0.2 to 0 - 0.2 {0 - 20 to 0 - 20}
KFDB□□ 61, 71, 81	0 - 25 to 0-less than 50 {0-2,500 to 0-less than 5,000}	0 - 50 to 0 - 500 {0 - 5,000 to 0 - 50,000}
KFDB□□ 62, 72, 82	0 - 2.5 to 0-less than 5 {0-250 to 0-less than 500}	0 - 5 to 0 - 53.9 {0 - 500 to 0 - 5,5000}
Transmitting / Indicating	± 1.0% FS / ±1.5 % FS	± 0.5% FS / ± 1.0% FS

Note) *1 ; When with elevation or suppression.

Repeatability	Within 0.3% FS
Dead Band	Within 0.2% FS
Indication	
Angle	44 degrees
Scale length	150 mm
Pointer	Process variable ; Red, Setpoint value ; Green
Output indicator (40 mm)	Scale range ; 0 to 200 kPa {0 to 2 kgf/cm^2} Indicator accuracy ; ± 3% FS
Set-point Section	
Local setting	Internal or external setting by setting knob.
Remote setting	Pneumatic pressure setting of 20 to 100 kPa {0.2 to 1.0 kgf/cm^2}
Setting range	0 to 100% FS
Controller	
Control action	P+ Manual reset, PI, PID, PD + Manual reset, PI + Batch, On-Off, Differential gap, P+ External reset, PD, + External reset
Proportional band (P)	5 - 500% (direct or reverse action)
Integral (I)	0.05 to 30 min.
Derivative (D)	0.05 to 30 min.
Differential gap	1 to 100% FS, adjustable
Batch setting pressure	60 to 110 kPa { 0.6 - 1.1 kgf/cm^2} , adjustable
External reset pressure	20 to 100 kPa { 0.2 - 1.0 kgf/cm^2} , adjustable
Manual reset	0 to 100% FS, adjustable (by pneumatic pressure setting)
General Specification	
Output	20 to 100 kPa {0.2 to 1.0 kgf/cm^2} , 0 or Corresponding to supply air pressure (on-off, differential gap)
Minimum load	I.D. 4 mm x 3 m + 20 cm^3
Supply air pressure	140 ± 14 kPa {1.4 ± 0.14 kgf/cm^2}
Air consumption (50% output balanced)	Indicating transmitter (A0) ; 5 L/min [N] Indicating controller (A1, A3) ; 9 L/min [N] Indicating transmitting controller (A2, A4) ; 9 L/min [N] Manual controller (M) ; 3 L/min [N]
Saturated air supply capacity	Transmitter output ; 40 L/min [N] Controller output ; 40 L/min [N] Manual controller output ; 30 L/min [N]
Air connection	Rc ¼ or ¼ NPT internal thread
Ambient temperature	At meter body (process fluid) ; -40 to 120 °C (PVC cover; 0 to 55 °C) At transmitter (ambient) ; -30 to 80 °C
Relative humidity	10 to 90% RH
Case, Door	Enclosure ; Rain-tight and dust-tight, meets JIS F 8001 class 3 splash-proof, NEMA 3, IEC IP 54 Materials ; Case…… Aluminum die-case Door…….. Polyester with fiberglass Door glass…… Reinforced glass (3 mm thick) Case finish ; Acryl baking finish (for corrosion-resistant and silver finish, refer to the optional specification)
Mounting	Panel, 2 in. pipe or flange mounting.
Weight	11.8 kg (when model KFDB12-221122A1P-X)

<table>
<tr><th>Item</th><th>Specifications</th></tr>
<tr><td>(1) External SP setting knob
(for local setting)</td><td>A setting knob is mounted on the door. SP can be adjusted from outside.</td></tr>
<tr><td>(2) Built-in manual controller
(with auto-manual transfer switch)</td><td>Consist of manual control regulator, two position transfer switch and balance check button.</td></tr>
<tr><td>(3) With manifold valve
(except type 6□ / 7□ detector)</td><td>
<table>
<tr><th>Manifold valve / KFD</th><th>Direct Mounting type
Without Extension type</th><th>Direct Mounting type
With Extension type</th><th>High pressure type
NZ16</th></tr>
<tr><td>KFDB□□ -11</td><td></td><td>✔</td><td></td></tr>
<tr><td>" -22</td><td></td><td>✔</td><td></td></tr>
<tr><td>" -33</td><td></td><td>✔</td><td></td></tr>
<tr><td>" -44</td><td>✔</td><td>✔</td><td></td></tr>
<tr><td>" -81</td><td></td><td></td><td>✔</td></tr>
<tr><td>" -82</td><td></td><td></td><td>✔</td></tr>
</table>
</td></tr>
<tr><td>(4) Elevation , Suppression</td><td>Elevation ; The lower limit of input range is above zero.
Suppression ; The lower limit of input range is below zero.</td></tr>
<tr><td>(5) Pressure regulator with filter
(hot applicable to panel mounting type)</td><td>Pressure regulator with filter plus 40 mm pressure gauge.
(supply pressure ; 200 to 970 kPa {2 to 9.9 kgf/cm^2}, output; 140 kPa {1.4 kgf/cm^2} , pressure gauge; 0 to 200 kPa {0 to 2 kgf/cm^2})</td></tr>
<tr><td>(6) High accuracy type
(applicable model KFDB□□-11-22)</td><td>
<table>
<tr><th>Model no.</th><th>Measuring span kPa{mmH$_2$O}</th><th>Accuracy</th></tr>
<tr><td>KFDB□□ -11</td><td>50 to less than 500 {5,000 to less than 50,000}</td><td>±0.25 (±0.375)*1</td></tr>
<tr><td>KFDB□□ -22</td><td>5 to less than 53.9 {500 to less than 5,500}</td><td></td></tr>
<tr><td>KFDB□□ -11</td><td>25 to less than 50 {2,500 to less than 5,000}</td><td>±0.5 (±0.75)*1</td></tr>
<tr><td>KFDB□□ -22</td><td>2.5 to less than 5 {250 to less than 500}</td><td></td></tr>
</table>
</td></tr>
</table>

Note) *1: When with elevation or suppression.

Optional Semi-standard and Special Specification

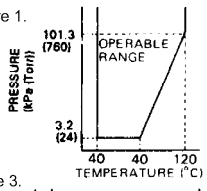
<table>
<tr><th>Item</th><th>Applicable Models</th><th>Specifications</th></tr>
<tr><td>(1) Vacuum use (Y23)</td><td>KFDB□□ - 11, 22, 6□, 7□, 8□
(Fig 1.)
KFDB□□ - 7□
(Fig 2.)</td><td rowspan="3">Relation of Process temperature and Pressure
Figure 1.
 

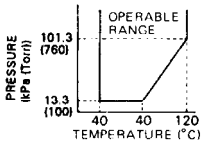
Figure 2.
 

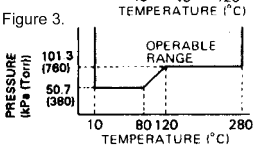
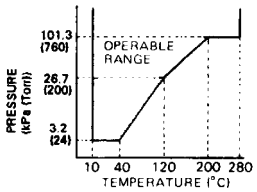
Figure 3.
 

Figure 4.
 

For details, please contact your Yamatake-Honeywell agent.</td></tr>
<tr><td>(2) High temperature use (Y62)</td><td>KFDB□□ - 7□
(Fig 3.)</td></tr>
<tr><td>(3) High temperature-Vacuum use (Y62+Y23)</td><td>KFDB□□ - 7□
(Fig 4.)</td></tr>
<tr><td>(4) Steam block (Y29)</td><td>KFDB□□-11, 23, 33
(except PVC and monel cover)</td><td>Max. operating pressure ; 5 MPa {50 kgf/cm^2}
Max. operating temperature; 250 °C (below 120 °C at meter body)
Steam piping connection; PT ¼ or ¼ NPT internal thread
Material; Carbon steel (SF45A)</td></tr>
<tr><td>(5) Stainless steel bolts (Y66)</td><td>KFDB□□-11, 22, 33, 6□, 8□</td><td>SUS304 stainless steel is used for meter body fixing bolts.
Max. operating pressure; [MPa]
<table>
<tr><th></th><th>SF45A</th><th>SUS316</th><th>Monel</th><th>PVC</th></tr>
<tr><td>KFDB□□ - 11, 22, 6□</td><td>6</td><td>6</td><td>6</td><td>1.5</td></tr>
<tr><td>“ - 33</td><td>2.5</td><td>2.5</td><td>2.5</td><td>1</td></tr>
<tr><td>“ - 8□</td><td>23</td><td>23</td><td>-</td><td>-</td></tr>
</table></td></tr>
<tr><td>(6) Corrosion resistant and silver finish (Y138)</td><td>All the KFD models</td><td>Corrosion-resistant finish with baked acryl (Y138A) ;
Resistant against corrosive gases.
Corrosion-proof finish with baked epoxy resin (Y138B) :
Resistant against corrosive liquids.
Regular silver finish with baked acryl (Y138C) :
To suppress temperature rise caused by direct sunlight or other cause.
Corrosion-resistant silver finish with baked acryl (Y138D) :
To suppress temperature rise caused as above and to be resistance against corrosive gases.
(note: silver finish is not resistant against alkaline gases.)</td></tr>
<tr><td>(7) Variable damping mechanism (Y169)</td><td>KFDB□□-11, 22, 33, 6□, 7□, 8□
(when measuring element material is SUS316 or SUS316L.)</td><td>Time Constant:
<table>
<tr><th rowspan="2">Model no.</th><th colspan="2">Time constant (continuously variable)</th></tr>
<tr><th>Min.</th><th>Max.</th></tr>
<tr><td>KFDB□□ -11, 22, 8□</td><td>0.5 sec. or less</td><td>30 sec. or over</td></tr>
<tr><td>KFDB□□ -33, 6□</td><td>2 sec. or less</td><td>30 sec. or over</td></tr>
<tr><td>KFDB□□ - 7□</td><td>6 sec. or less</td><td>50 sec. or over</td></tr>
</table>
Note: KFDB□□-44 is with min.2 sec. or less and max. 15 sec. or over</td></tr>
<tr><td>(8) Rear connection for process piping (Y171)</td><td>KFDB□□-11, 22</td><td>Applicable only when cover material is carbon steel or SUS 316
(installation method is limited to that on a 2-inch horizontal pipe)</td></tr>
<tr><td>(9) For oxygen measurement (Y182)</td><td>All the KFD models
(when measuring element material is SUS316 or SUS316L.)</td><td>Liquid fill ; Fluorine oil
Operating temperature (both fluid and ambient); -10 to 60 °C
Wet-part treatment; Treated for degreasing</td></tr>
<tr><td>(10) For chlorine gas measurement (Y183)</td><td>KFDB□□-11, 22, 33, 6□, 7□, 8□
(when measuring element material is tantalum.)</td><td>Liquid fill ; Fluorine oil
Operating temperature (both fluid and ambient); -10 to 80 °C
Wet-part treatment; Treated for degreasing</td></tr>
<tr><td>(11) Special order items (the items mentioned in the right are available as special order item.)</td><td>All the KFD models</td><td>1) Door lock
2) Stainless steel tag plate
3) AUTO/MAN switch viewing window
4) Pressure gauge (40 mm) for transmitting signal</td></tr>
</table>

MODEL SELECTION

Basic model no.			Selections										
Type	Function	Control action	Type of detector	Cover or flange[*1] material		Pressure element material		Flange rating	Capillary tube length	Length of extended part of flange	Air connection	Pressure unit / Output	Mounting method	Options
				HP[*2]	LP[*3]	HP	LP							
KFD	I	II	III	IV	V	VI	VII	VIII	IV	X	XI	XII	XIII	XIV

I

B0	Indicating transmitter	
B1	Indicating controller	(local type)
B2	Indicating transmitting controller	(local type)
B3	Indicating controller	(cascade type)
B4	Indicating transmitting controller	(cascade type)

II

0	No selection	5	PI + Batch
1	P + Manual reset	6	On-Off
2	PI	7	Differential gap
3	PID	8	P + External reset
4	PD + Manual reset	9	PD + External reset

III

11	Standard type	025 to 0500 kPa {02,500 to 0 50,000 mm H_2O}
22	Standard type	02.5 to 053.9 kPa {0250 to 0 50,000 mm H_2O}
33	Standard type	00.5 to 06 kPa {050 to 0 600 mm H_2O}
44	Standard type	00.1 to 01.2 kPa {010 to 0 120 mm H_2O}
61	Flange type	025 to 0500 kPa {02,500 to 0 50,000 mm H_2O}
62	Flange type	02.5 to 053.9 kPa {0250 to 0 5,500 mm H_2O}
71	Remote seal diaphragm type	025 to 0500 kPa {02,500 to 0 50,000 mm H_2O}
72	Remote seal diaphragm type	02.5 to 053.9kPa {0250 to 0 5,500 mm H_2O}
81	High static pressure type	025 to 0500 kPa {02,500 to 050,000 mm H_2O}
82	High static pressure type	025 to 053.9 kPa {0250 to 0 5,500 mm H_2O}

IV

1	Carbon steel (SF45A)
2	SUS316 (applicable type 11, 22, 33, 44, or 8☐ detector.)
3	Monel lining (base SUS316) (applicable to type 11, 22, or 33 detector.)
5	Rigid PVC (applicable type 11, 22, 33 detector.)
7	SUS304 (applicable to type 6☐ or 7☐ detector.)

V

1	Carbon steel (SF45A)
2	SUS316 (applicable type 11, 22, 33, 44, 6☐ or 8☐ detector.)
3	Monel lining (base SUS316) (applicable to type11, 22, 33 or 6☐ detector.)
5	Rigid PVC (applicable type 11, 22, 33 or 6☐ detector.)
7	SUS304 (applicable to type 7☐ detector.)

VI

2	SUS316 (diaphragm; SUS316L, SUS316 in case of type 44)
3	Monel (excluding type 44 and extended diaphragm of 6☐ or 7☐ detector.)
4	Tantalum (excluding type 44 and extended diaphragm of 6☐ or 7☐ detector.)
8	SUS316L (excluding type 44 detector.)

VII

2	SUS316 (diaphragm; SUS316L, SUS316 in case of type 44)
3	Monel (excluding type 44 and extended diaphragm of 7☐ detector.)
4	Tantalum (excluding type 44 and extended diaphragm of 7☐ detector.)
8	SUS316L (excluding type 44 detector.)

VIII

	SUS316 (diaphragm; SUS316L, SUS316 in case of type 44)		
1	80 mm-JIS 10K (RF) equiv. flange	Flush diaphragm type	Applicable type is 6☐ or 7☐ detector
2	80 mm-JIS 30K (RF) equiv. flange		
3	3 in. -ANSI 150 (RF)equiv. flange		
4	3 in. -ANSI 300 (RF) equiv. flange		
5	100 mm-JIS 10K (RF) equiv. flange	Extended diaphragm type	
6	100 mm-JIS 30K (RF) equiv. flange		
7	4 in. -ANSI 150 (RF)equiv. flange		
8	4 in.-ANSI 300 (RF) equiv. flange		

IX

	Blank (applicable to type 11, 22, 33, 44, 6☐ or 8 ☐ detector)
02	2 m (applicable to type 7☐ detector.)
03	3 m (applicable to type 7☐ detector.)
05	5 m (applicable to type 7☐ detector.)

X

	Blank (applicable to type 11, 22, 33, 44, 6☐ or 8 ☐ detector.)
00	Applicable to flush diaphragm, wafer and button diaphragm type.)
10	100 mm (applicable to extended diaphragm of type 6☐ or 7☐ detector.)
15	150 mm (applicable to extended diaphragm of type 6☐ or 7☐ detector.)

XI

A	Rc ¼ internal thread (When this option chosen, instruction plate becomes Japanese version.)
B	¼ NPT internal thread (When this option chosen, instruction plate becomes Japanese version.)

XII

1	0.2 to 1.0 kgf/ cm²
2	3 to 15 PSI
3	0.2 to 1.0 bar
4	20 to 100 kPa
8	19.6 to 98.1 kPa (equality to 0.2 to 1.0 kgf/cm^2)

XIII

P	Panel mounting (not applicable to with air-set.)
T	2 in. pipe mounting
F	Flange mounting (applicable to type 61 or 62 detector.)

XIV

-X	No selection
-M	Built in manual controller (with auto/manual transfer switch) (applicable to type B_1, B_2, B_3 or B_4 controller.)
-K	With external SP setting knob (applicable to type B_1 or B_2 controller.)
-5	Elevation
-6	Suppression
-7	Pressure regulator with filter

[Notes]

1) For material of cover and flange.

*1. Cover material denote for detector type 11/22/33/44/61 LP[*3]/62LP[*3]/81 or 82.
Flange materials denote for detector type 61HP[*2]/62HP[*2]/71 or 72.

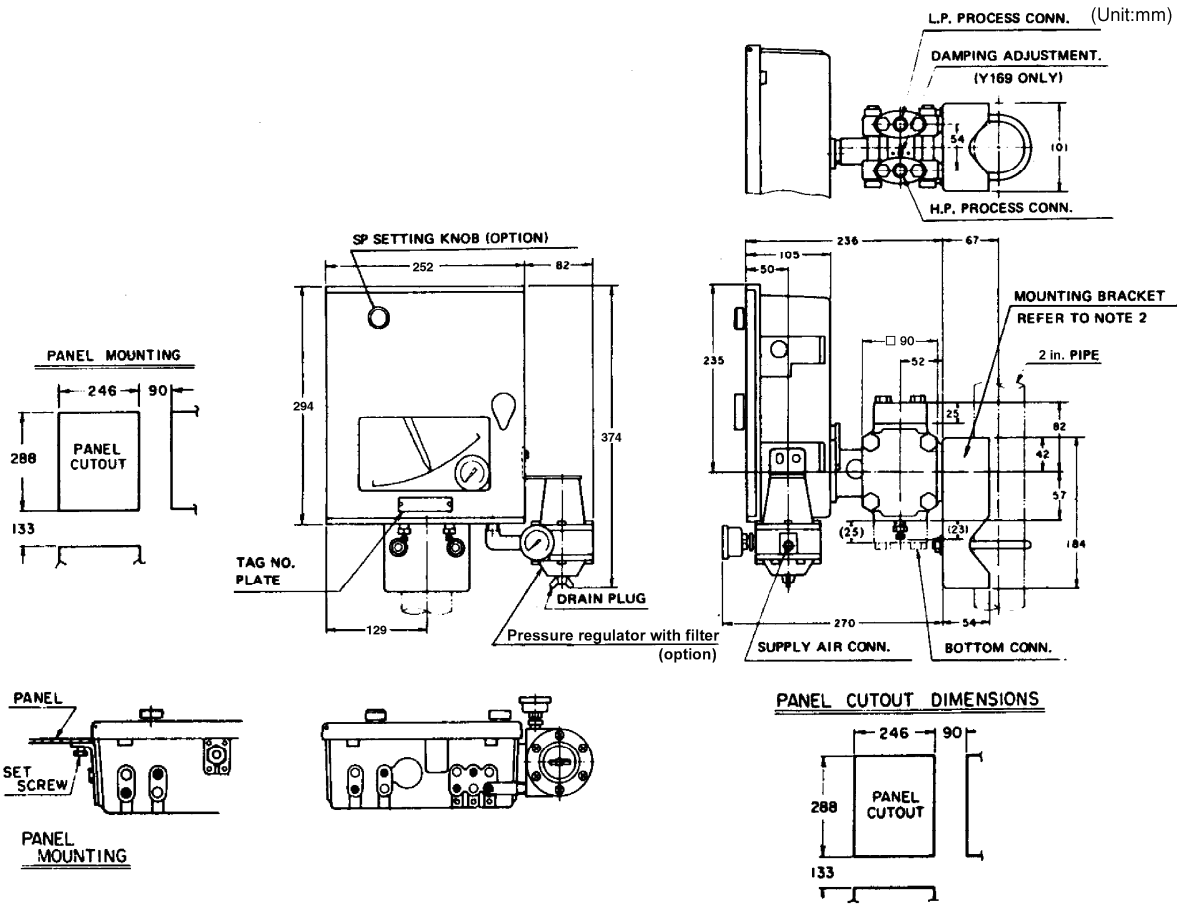
*2. For detector type 61 or 62; Flange material

*3. For detector type 61 or 62; Chamber cover material

2) When specifying semi- standard option (Y☐) not listed in model no. table, please write as;
KFDB11Y-112222A1T-M,K,6,7 (Y66,Y138).
Please consult with factory in case of a multiple of "Y" spec. are required.)

DIMENSIONS

(Unit:mm)



AIR CONNECTIONS (Refer to note 1, 4)

- o : Rc ¼ internal
- • : ¼ NPT internal

REGEND

ESP : EXTENAL SP SIGNAL
(FOR CASCADE TYPE ONLY)
× : TRANSMITTING SIGNAL
(FOR TRANSMITTER ONLY)
OUT : CONTROLLED SIGNAL
RES : EXTERNAL RESET SIGNAL
(FOR EXTERNAL RESET TYPE ONLY)
SUP : SUPPLY AIR PRESSURE

Notes:

1) The holes not to be used for connection are plugged.
2) These holes in the bracket enable the controller to be mounted in various position.
3) For manual reset provision, “SUP” and “RES” have been preconnected.
4) This dimensions are of bourdon type detector. (detector model nos 11~14). Caution must be taken to dimensions which depend on the shape of elements. (refer to the reference specification sheets at the rear of this sheet.)

Ordering Information

When ordering please specify;

1) Model no. 2) Pressure range 3) Options

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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Advanced Automation Company

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