

ST3000 New Ace 1/2 in. remote-sealed diaphragm style Differential pressure type

Issued: Spt. 15, 2001	Page: 1-4-40
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTE929A	2.5 to 100kPa(250 to 10,160mmH2O) Medium differential pressure	Regular service(Silicon oil), High temperature (Silicon oil), Oxygen service(Fluorine oil)	1/2 in. remote
JTE930A	35 to 700kPa(0.35 to 7kgf/cm2) High differential pressure	Regular service(Silicon oil), High temperature (Silicon oil), Oxygen service(Fluorine oil)	1/2 in. remote

Basic model No. - I II III IV V VI VII VIII - IX X XI XII XIII XIV - Options 1 - Options 2

Basic Model No.			Basic price
Measuring span	2.5 to 100kPa(250 to 10,160mmH2O)	JTE929A	594
	35 to 3500kPa(0.35 to 35kgf/cm2)	JTE930A	606

Selections					Additional price
I	Output	4 to 20mA	1		0
		Digital output (DE protocol)	3	*1, *2	0
		4 to 20mA (HART protocol)	5	*3, *4	5
II	Material of wetted part	SUS316 (Diaphragm : SUS316L)	2		0
		SUS316L	8		40
		Hastelloy C	H		155
III	Fill Fluid	Regular type (Silicone oil)	1		0
		For oxygen service (Fluorine oil)	2		62
		For High temperature service (Silicon oil)	3		62
IV	Flange rating	No flange used	W		0
V	Flange size	1/2 remote with capillary /2in. Remote	R		0
VI	Flange type	Standard	1		0
VII	Bolt and nut material	Carbon steel	N		0
		SUS304	P		10
		SUS630	Q		20
VIII	Length of Capillary tube	1m	1		0
		2m	2		5
		3m	3		10
		4m	4		20
		5m	5		30
	Length of capillary tube with Olefin coating	1m	L		20
		2m	B		25
		3m	C		30
		4m	H		40
		5m	D		50

Notes

- Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- Digital output (DE protocol) can not be combined with an external zero adjustment function.
- HART Communication can not be combined with Special burn-out feature.
- The lowest output limit is -1.25%(3.8mA).

ST3000 New Ace 1/2 in. remote-sealed diaphragm style Gauge pressure type

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Model	Pressure range/style	Service (Fill fluid)	Process connection
JTH940A	35 to 3500kPa(0.35 to 35kgf/cm2) Low pressure	Regular service(Silicon oil), High temperature (Silicon oil), Oxygen service(Fluorine oil)	1/2 in. remote
JTH960A	0.7 to 10MPa(7 to 102 kgf/cm2) High pressure	Regular service(Silicon oil), High temperature (Silicon oil), Oxygen service(Fluorine oil)	1/2 in. remote

Selections Options 1

Basic model No. - I II III IV V VI VII VIII - IX X XI XII XIII XIV - Options 2

Basic Model No.	Measuring span	Pressure range/style	Model	Basic price
	35 to 3500kPa (0.35 to 35kgf/cm2)		JTH940A	438
	0.7 to 14MPa (7 to 140kgf/cm2)		JTH960A	438

Selections					Additional price
I	Output	4 to 20mA	1		0
		Digital output (DE protocol)	3	*1, *2	0
		4 to 20mA (HART protocol)	5	*3, *4	5
II	Material of wetted part	SUS316 (Diaphragm : SUS316L)	2		0
		SUS316L	8		25
		Hastelloy C	H		87
III	Fill Fluid	Regular type (Silicone oil)	1		0
		For oxygen service (Fluorine oil)	2		62
		*11, *15 For High temperature service (Silicon oil)	3		62
IV	Flange rating	No flange used	W		0
V	Flange size	1/2 remote with capillary /2in. Remote	R		0
VI	Flange type	Standard	1		0
VII	Bolt and nut material	Carbon steel	N		0
		SUS304	P		10
		SUS630	Q		20
VIII	Length of Capillary tube	1m	1		0
		2m	2		3
		3m	3		7
		4m	4		14
		5m	5		21
	Length of capillary tube with Olefin coating	1m	L		15
		2m	B		18
		3m	C		22
		4m	H		29
		5m	D		36

Notes

- 1 Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- 2 Digital output (DE protocol) can not be combined with an external zero adjustment function.
- 3 HART Communication can not be combined with Special burn-out feature.
- 4 The lowest output limit is -1.25%(3.8mA).
- 11 Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating.
- 15 If the fill fluid is for high temperature service and wetted part material is Tantalum, the applicable temperature range of wetted part is from -10 to 180 deg.C

ST3000 New Ace 1/2 in. remote-sealed diaphragm style Differential pressure type

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Model	Pressure range/style	Service (Fill fluid)	Process connection
JTE929A	2.5 to 100kPa(250 to 10,160mmH2O) Medium differential pressure	Low temperature (Fast response) service (Silicon oil)	1/2 in. remote

Selections Options 1

Basic model No. - I II III IV V VI VII VIII - IX X XI XII XIII XIV - Options 2

Basic Model No.	JTE929A	Basic price	594
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Selections				Additional price
I	Output	4 to 20mA	1	0
		Digital output (DE protocol)	3 *1, *2	0
		4 to 20mA (HART protocol)	5 *3, *4	5
II	Material of wetted part	SUS316 (Diaphragm : SUS316L)	2	0
III	Fill Fluid	For low temperature use (Fast response (Fill fluid : Silicon oil))	8	62
IV	Flange rating	No flange used	W	0
V	Flange size	1/2 remote with capillary /2in. Remote	R	0
VI	Flange type	Standard	1	0
VII	Bolt and nut material	Carbon steel	N	0
		SUS304	P	10
		SUS630	Q	20
VIII	Length of Capillary tube	1m	1	0
		2m	2	5
		3m	3	10
		4m	4	20
		5m	5	30
	Length of capillary tube with Olefin coating	1m	L	20
		2m	B	25
		3m	C	30
		4m	H	40
		5m	D	50

Notes

- Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- Digital output (DE protocol) can not be combined with an external zero adjustment function.
- HART Communication can not be combined with Special burn-out feature.
- The lowest outoput limit is -1.25%(3.8mA).

ST3000 New Ace 1/2 in. remote-sealed diaphragm style Differential pressure type

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Model	Pressure range/style	Service (Fill fluid)	Process connection
JTE929A	2.5 to 100kPa(250 to 10,160mmH2O) Medium differential pressure	Regular service(Silicon oil), High temperature (Silicon oil), Oxygen service(Fluorine oil)	1/2 in. remote
JTE930A	35 to 700kPa(0.35 to 7kgf/cm2) High differential pressure	Regular service(Silicon oil), High temperature (Silicon oil), Oxygen service(Fluorine oil)	1/2 in. remote

Selections Options 1

Basic model No. - I II III IV V VI VII VIII - IX X XI XII XIII XIV - Options 2

Basic Model No.	Measuring span	2.5 to 100kPa(250 to 10,160mmH2O)	JTE929A	Basic price
				594

Additional price

Selections

Selections	Options 1	Options 2	Additional price	
I Output	4 to 20mA	1	0	
	Digital output (DE protocol)	3 *1, *2	0	
	4 to 20mA (HART protocol)	5 *3, *4	5	
II Material of wetted part	SUS316 (Diaphragm : SUS316L)	2	0	
	SUS316L	8	40	
	Hastelloy C	H	155	
III Fill Fluid	Regular type (Silicone oil)	1	0	
	For oxygen service (Fluorine oil)	2	62	
	For High temperature service (Silicon oil)	3	62	
IV Flange rating	No flange used	W	0	
V Flange size	1/2in. Corrosion-Resistant model(Rear Connection to Cap T	T	50	
VI Flange type	Standard	1	0	
VII Bolt and nut material	Carbon steel	N	0	
	SUS304	P	10	
	SUS630	Q	20	
VIII Length of Capillary tube	1m	1	0	
	2m	2	5	
	3m	3	10	
	4m	4	20	
	5m	5	30	
	Length of capillary tube with Olefin coating	1m	L	20
		2m	B	25
		3m	C	30
		4m	H	40
		5m	D	50

Notes

- Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- Digital output (DE protocol) can not be combined with an external zero adjustment function.
- HART Communication can not be combined with Special burn-out feature.
- The lowest outoput limit is -1.25%(3.8mA).

ST3000 New Ace 1/2 in. remote-sealed diaphragm style Differential pressure type

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Model	Pressure range/style	Service (Fill fluid)	Process connection
JTE929A	2.5 to 100kPa(250 to 10,160mmH2O)	Medium differential pressure	Regular service(Silicon oil), High temperature (Silicon oil), Oxygen service(Fluorine oil)
JTE930A	35 to 700kPa(0.35 to 7kgf/cm2)	High differential pressure	Regular service(Silicon oil), High temperature (Silicon oil), Oxygen service(Fluorine oil)

Selections Options 1

Basic model No. - I II III IV V VI VII VIII - IX X XI XII XIII XIV - Options 2

Basic Model No.			Basic price
Measuring span	2.5 to 100kPa(250 to 10,160mmH2O)	JTE929A	594

Selections					Additional price
I	Output	4 to 20mA	1		0
		Digital output (DE protocol)	3	*1, *2	0
		4 to 20mA (HART protocol)	5	*3, *4	5
II	Material of wetted part	SUS316 (Diaphragm : SUS316L)	2		0
		SUS316L	8		40
		Hastelloy C	H		155
III	Fill Fluid	Regular type (Silicone oil)	1		0
		For oxygen service (Fluorine oil)	2		62
		For High temperature service (Silicon oil)	3		62
IV	Flange rating	No flange used	W		0
V	Flange size	1/2in. High model(Rear Connection to Capillary)	U		50
VI	Flange type	Standard	1		0
VII	Bolt and nut material	Carbon steel	N		0
		SUS304	P		10
		SUS630	Q		20
VIII	Length of Capillary tube	1m	1		0
		2m	2		5
		3m	3		10
		4m	4		20
		5m	5		30
	Length of capillary tube with Olefin coating	1m	L		20
		2m	B		25
		3m	C		30
		4m	H		40
		5m	D		50

Notes

- Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- Digital output (DE protocol) can not be combined with an external zero adjustment function.
- HART Communication can not be combined with Special burn-out feature.
- The lowest output limit is -1.25%(3.8mA).

**ST3000 New Ace 1/2 in. remote-sealed diaphragm style
Differential pressure type/Gauge pressure type**

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Selections Options 1
Basic model No. - I II III IV V VI VII VIII - IX X XI XII XIII XIV - Options 2

Options 1				Additional price
IX	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, TIIS Flameproof with 1 pc. Of cable gland attach	2	14
		G1/2, TIIS Flameproof with 2 pcs. Of cable gland attach	3	23
		G1/2, TIIS intrinsically safe	K	5
		G1/2 KOSA Explosionproof	P	5
		1/2 NPT, Watertight	A	0
X	Building indicating smart meter	None	X	0
		0 to 100 % liner scales	1	25
		Engineering unit scales	2	30
XI	Finish	Standard	X	0
		Corrosion-resistant	A	11
		Corrosion-proof	B	14
		Corrosion-resistant (Silver coating)	D	16
XII	Finish of gasket face	Standard (JISRa3.2(12.5S))	X	0
XIII	Burnout feature *1	None	X	0
		Upper limit of output at abnormal condition	U	7
		Lower limit of output at abnormal condition	D	7
XIV	Mounting bracket	None	X	0
		Carbon steel	1	3
		SUS304	2	10

Options 2			Additional prices
XX	No options		0
A2	External Zero adjustment *2		30
A4	Lightning arrester		18
A6	1/2 in. remote mounting kit		Refer to page1-4-46
A7	1/2in. Remote Mounting Kit(For Flange Size:T,U)		Refer to page1-4-46
B7	For mounting a high load resistance smart meter		0
C1	Color : Red (Munsell 5R4/13)		20
C2	Color : Yellow (Munsell 2.5Y8/16)		20
C3	Color : Blue (Munsell 7.5BG7/2)		20
C7	Process connection ; reverse		0
D1	Water free finish (included oil free finish)		29
E6	Water free finish (included oil free finish) High Grade		35
D2	Oil free finish *16 *17		19
G1	One elbow (left)		2
G2	One elbow (right)		2
G3	2 elbows		4
J8	Special burn-out feature (3.2mA) *18		20
T1	Test report		2
T2	Material certificate *19		21
T5	Strength calculation sheet		15
T6	Withstand pressure and airtight test *21		40
T8	Traceability certificate		10
U2	Non-SI unit conformance		0

Notes

- 1 Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- 2 Digital output (DE protocol) can not be combined with an external zero adjustment function.
- 3 HART Communication can not be combined with Special burn-out feature.
- 16 When the fill fluid is for oxygen or chlorine service, there is not needed to select this.
- 17 The carbon steel for meterbody cover material is not available for this option.
- 18 "Lower limit of output at abnormal condition" - code D must be selected for Options 1 "V", Burnout feature.
- 19 Available only for material of wetted part.
- 20 When ordering, designed pressure and designed temperature are required.
- 21 When ordering, withstand pressure and airtight test pressure are required.

**ST3000 New Ace 1/2 in. remote-sealed diaphragm style
Differential pressure type/Gauge pressure type
1/2 in. remote diaphragm mounting kit**

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Selections

HF -I II III IV V - Options

Basic Model No.		Basic price	
		JTE	JTH
1/2 in. Remote mounting kit	HF	68	35

Selections				Additional price	
I	Transmitter model number	2 adapters for JTE	E	-	-
		1 adapter for JTH	H	-	-
II	Adapter	Flange size	1/2 in. flange	1	30 15
			3/4 in. flange	2	50 25
			Screw connection Rc 1/2 internal	A	0 0
III	Flange rating	JIS 10K	A	0 0	
		JIS 20K	C	5 3	
		JIS 30K	D	15 8	
		ANSI 150	G	0 0	
		ANSI 300	H	5 3	
		JPI 150	N	0 0	
		JPI 300	P	5 3	
IV	Material of	SUS316	2	0 0	
		Bolt & nut	SUS630	3	15 8

Options					
Options	None		X	0	0
	Water free finish (included oil free finish) *1		1	0	0
	Oil free finish *13	*1	2	0	0
	Long vent/drain plugs		3	10	5
	Assembled with a transmitter *2		4	5	3
	Water free finish (included oil free finish) High Gra *1		7	0	0

Basic Model No.		Basic price	
		JTE	
1/2 in. Remote mounting kit	HF	68	

Selections				Additional price	
I	Transmitter model	2 adapters for JTE (for Flange Size "T,U") *4	W		45
II	Adapter	Flange size	1/2 in. flange	1	30
			3/4 in. flange	2	50
III	Flange rating	JIS 10K	A	0	
		JIS 20K	C	5	
		JIS 30K *3	D	15	
		ANSI 150	G	0	
		ANSI 300 *3	H	5	
		JPI 150	N	0	
IV	Material of	SUS316	2	0	
		Bolt & nut	SUS304	2	0

Options					
Options	None		X	0	
	Water free finish (included oil free finish) *1		1	0	
	Oil free finish *1		2	0	
	Long vent/drain plugs		3	10	
	Assembled with a transmitter *2		4	5	
	Water free finish (included oil free finish) High Gra *1		7	0	

Notes

- 1 When this option is selected, the same option for transmitter must be selected.
- 2 Select the option when "T3" is selected in the transmitter selection.
- 3 Refer to the specification sheet for the working pressure range.
- 4 The combination with SDR is not available.