

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-9
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH2O)	Medium differential pressure Regular service(Silicon oil)	Flush diaphragm 3 in. (80mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2)	High differential pressure Regular service(Silicon oil)	Flush diaphragm 3 in. (80mm)

Selections Options 1

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

Options 1, 2 : Refer to page 1-4-19

Basic Model No.				Basic price			
Measuring span	2.5 to 100kPa(250 to 10,160mmH2O)	JTC929A		350			
	70 to 3500kPa(0.70 to 35kgf/cm2)	JTC940A		350			
				Additional price			
Selections							
I	Output	4 to 20mA	1	0			
		Digital output (DE protocol)	3 *1,*2	0			
		4 to 20mA (HART Communication)	5 *3,*4	5			
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side		
		*10 SCS14A *32	SUS316	SUS316 *9	SUS316 *9	E	0
		*10 SCS14A *32	SUS316	HastelloyC	SUS316 *9	F	53
		*10 SCS14A *32	SUS316	Tantalum	SUS316 *9	H	95
		*10 SCS14A *32	SUS316	SUS316L	SUS316 *9	L	19
III	Fill Fluid	Regular type (Silicone oil)	1	0			
IV	Process connection (Reference side)	Rc 1/2, top connection	A	0			
		Rc 1/2, bottom connection	B	0			
		1/2 NPT internal thread, top connection	F	0			
		1/2 NPT internal thread, bottom connection	G	0			
		Rc 1/4, top connection	L	0			
		Rc 1/4, bottom connection	M	0			
		1/4 NPT internal thread, top connection	R	0			
		1/4 NPT internal thread, bottom connection	S	0			
	Open to atmosphere *10	W	0				
V	Flange rating	JIS 10K	A	0			
		JIS 20K	C	25			
		JIS 30K	D	35			
		*11 JIS 63K	F	50			
		ANSI 150	G	0			
		ANSI 300	H	25			
		*11 ANSI 600	J	50			
		JPI 150	N	0			
		JPI 300	P	25			
		*11 JPI 600	Q	50			
		VI	Flange size	3 in. /80 mm	2	0	
VII	Flange type	Standard	1	0			
VIII	Flange material/bolt and nut	SUS304/Carbon steel	D	0			
		SUS304/SUS304	E	11			
		SUS304/SUS630	F	20			
		SUS316/Carbon steel	G	40			
		SUS316/SUS304	H	51			
		SUS316/SUS630	J	60			
		SUS316L/Carbon steel	K	50			
		SUS316L/SUS304	L	61			
SUS316L/SUS630	M	70					

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).
- This can be selected for the meterbody cover if the process fluid contains hydro-carbon or H2S which used for Refinery/Petrochemical. In other cases, select Carbon steel Ni plating for meterbody cover.
- When a wetted part is SUS316, the diaphragm material is SUS316L.
- When "Open to atmosphere" of process connection is selected, the meterbody cover is SUSF304 instead of SUSF316
- Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating
- SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-10
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH2O)	Medium differential pressure	Oxygen service(Fluorine oil) : Flush diaphragm 3 in. (80mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2)	High differential pressure	Oxygen service(Fluorine oil) : Flush diaphragm 3 in. (80mm)

Selections Options 1

Basic model No. - I III IIII IV V VI VII VIII- IX X XI XII XIII - Options 2 Options 1, 2 : Refer to page 1-4-19

Basic Model No.			Basic price
Measuring span	2.5 to 100kPa(250 to 10,160mmH2O)	JTC929A	350
	0.70 to 3500kPa(0.70 to 35kgf/cm2)	JTC940A	350

Selections							Additional price
I	Output	4 to 20mA		1			0
		Digital output (DE protocol)		3	*1,*2		0
		4 to 20mA (HART Communication)		5	*3,*4		5
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side		
		*10 SCS14A *32	SUS316	SUS316 *9	SUS316 *9	E	0
		*10 SCS14A *32	SUS316	HastelloyC	SUS316 *9	F	53
		*10 SCS14A *32	SUS316	Tantalum	SUS316 *9	H	95
		*10 SCS14A *32	SUS316	SUS316L	SUS316 *9	L	19
III	Fill Fluid	For oxygen service (Fluorine oil)			2		62
IV	Process connectio	Rc 1/2, top connection		A		0	
		Rc 1/2, bottom connection		B		0	
		1/2 NPT internal thread, top connection		F		0	
		1/2 NPT internal thread, bottom connection		G		0	
		Rc 1/4, top connection		L		0	
		Rc 1/4, bottom connection		M		0	
		1/4 NPT internal thread, top connection		R		0	
		1/4 NPT internal thread, bottom connection		S		0	
		Open to atmosphere *10		W		0	
V	Flange rating	JIS 10K		A		0	
		JIS 20K		C		25	
		JIS 30K		D		35	
		*11	JIS 63K		F		50
			ANSI 150		G		0
			ANSI 300		H		25
		*11	ANSI 600		J		50
			JPI 150		N		0
			JPI 300		P		25
			JPI 600		Q		50
		VI	Flange size	3 in. /80 mm		2	
VII	Flange type	Standard		1		0	
VIII	Flange material/bolt and nut	SUS304/Carbon steel		D		0	
		SUS304/SUS304		E		11	
		SUS304/SUS630		F		20	
		SUS316/Carbon steel		G		40	
		SUS316/SUS304		H		51	
		SUS316/SUS630		J		60	
		SUS316L/Carbon steel		K		50	
		SUS316L/SUS304		L		61	
		SUS316L/SUS630		M		70	

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).
- When a wetted part is SUS316, the diaphragm material is SUS316L.
- When "Open to atmosphere" of process connection is selected, the meterbody cover is SUSF304 instead of SUSF316
- Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating
- SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-11
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH ₂ O)	Medium differential pressure Chlorine service(Fluorine oil)	Flush diaphragm 3 in. (80mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ²)	High differential pressure Chlorine service(Fluorine oil)	Flush diaphragm 3 in. (80mm)

Selections Options 1

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

Options 1, 2 : Refer to page 1-4-19

Basic Model No.			Basic price
Measuring span	2.5 to 100kPa(250 to 10,160mmH ₂ O)	JTC929A	350
	70 to 3500kPa(0.70 to 35kgf/cm ²)	JTC940A	350

Selections				Additional price		
I	Output	4 to 20mA	1	0		
		Digital output (DE protocol)	3 *1,*2	0		
		4 to 20mA (HART Communication)	5 *3,*4	5		
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side	
		*10 SCS14A *32	SUS316	Tantalum	SUS316 * H	
III	Fill Fluid	For Chlorine service (Fluorine oil)		5	62	
IV	Process connection (Reference side)	Rc 1/2, top connection	A	0		
		Rc 1/2, bottom connection	B	0		
		1/2 NPT internal thread, top connection	F	0		
		1/2 NPT internal thread, bottom connection	G	0		
		Rc 1/4, top connection	L	0		
		Rc 1/4, bottom connection	M	0		
		1/4 NPT internal thread, top connection	R	0		
		1/4 NPT internal thread, bottom connection	S	0		
	Open to atmosphere *10	W	0			
V	Flange rating	JIS 10K	A	0		
		JIS 20K	C	25		
		JIS 30K	D	35		
		*11 JIS 63K	F	50		
		ANSI 150	G	0		
		ANSI 300	H	25		
		*11 ANSI 600	J	50		
		JPI 150	N	0		
		JPI 300	P	25		
		*11 JPI 600	Q	50		
VI	Flange size	3 in. /80 mm	2	0		
VII	Flange type	Standard	1	0		
VIII	Flange material/bolt and nut	SUS304/Carbon steel	D	0		
		SUS304/SUS304	E	11		
		SUS304/SUS630	F	20		
		SUS316/Carbon steel	G	40		
		SUS316/SUS304	H	51		
		SUS316/SUS630	J	60		
		SUS316L/Carbon steel	K	50		
		SUS316L/SUS304	L	61		
SUS316L/SUS630	M	70				

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).
- 9 When a wetted part is SUS316, the diaphragm material is SUS316L.
- 10 When "Open to atmosphere" of process connection is selected, the meterbody cover is SUS304 instead of SUS316
- 11 Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating
- 32 SCS14A (equivalent to SUS316) or SUS316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-12
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH ₂ O)	Medium differential pressure Regular service(Silicon oil)	Flush diaphragm 2 in. (50mm)/1.5 in.(40mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ₂)	High differential pressure Regular service(Silicon oil)	Flush diaphragm 2 in. (50mm)/1.5 in.(40mm)

Basic model No. - I II III IV V VI VII VIII- IX X XI XII XIII - Options 2 Options 1, 2 : Refer to page 1-4-19

Basic Model No.	Measuring span	Pressure range/style	Service (Fill fluid)	Process connection	Basic price
	2.5 to 100kPa (250 to 10,160mmH ₂ O)		JTC929A		350
	70 to 3500kPa (0.70 to 35kgf/cm ₂)		JTC940A		350

Selections						Additional price	
I	Output	4 to 20mA		1		0	
		Digital output (DE protocol)		3	*1,*2	0	
		4 to 20mA (HART Communication)		5	*3,*4	5	
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side		
		*10 SCS14A *32	SUS316	SUS316 *9	SUS316 *9	E	0
		*10 SCS14A *32	SUS316	HastelloyC	SUS316 *9	F	87
		*10 SCS14A *32	SUS316	Tantalum	SUS316 *9	H	129
		*10 SCS14A *32	SUS316	SUS316L	SUS316 *9	L	19
III	Fill Fluid	Regular type (Silicone oil)		1		0	
IV	Process connection (Reference side)	Rc 1/2, top connection		A		0	
		Rc 1/2, bottom connection		B		0	
		1/2 NPT internal thread, top connection		F		0	
		1/2 NPT internal thread, bottom connection		G		0	
		Rc 1/4, top connection		L		0	
		Rc 1/4, bottom connection		M		0	
		1/4 NPT internal thread, top connection		R		0	
		1/4 NPT internal thread, bottom connection		S		0	
Open to atmosphere *10		W		0			
V	Flange rating	JIS 10K		A		0	
		JIS 20K		C		25	
		JIS 30K		D		35	
		*11 JIS 63K		F		50	
		ANSI 150		G		0	
		ANSI 300		H		25	
		*11 ANSI 600		J		50	
		JPI 150		N		0	
		*11 JPI 300		P		25	
		*11 JPI 600		Q		50	
VI	Flange size	2 in./50mm		3		0	
		1.5 in./40mm *12		4		0	
VII	Flange type	Standard		1		0	
VIII	Flange material/bolt and nut	SUS304/Carbon steel		D		0	
		SUS304/SUS304		E		11	
		SUS304/SUS630		F		20	
		SUS316/Carbon steel		G		40	
		SUS316/SUS304		H		51	
		SUS316/SUS630		J		60	
		SUS316L/Carbon steel		K		50	
		SUS316L/SUS304		L		61	
SUS316L/SUS630		M		70			

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).
- This can be selected for the meterbody cover if the process fluid contains hydro-carbon or H₂S which used for Refinery/Petrochemical. In other cases, select Carbon steel Ni plating for meterbody cover.
- When a wetted part is SUS316, the diaphragm material is SUS316L.
- When "Open to atmosphere" of process connection is selected, the meterbody cover is SUSF304 instead of SUSF316
- Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating
- Can not be selected with Dael diaphragm.
- SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-13
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection	
JTC929A	2.5 to 100kPa(250 to 10,160mmH ₂ O)	Medium differential pressure	Oxygen service(Fluorine oil)	Flush diaphragm 2 in. (50mm)/1.5 in.(40mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ₂)	High differential pressure	Oxygen service(Fluorine oil)	Flush diaphragm 2 in. (50mm)/1.5 in.(40mm)

Selections Options 1

Basic model No. - I II III IV V VI VII VIII - IX X XI XII XIII - Options 2 Options 1, 2 : Refer to page 1-4-19

Basic Model No.	Measuring span	Basic price	
	2.5 to 100kPa(250 to 10,160mmH ₂ O)	JTC929A	350
	70 to 3500kPa(0.70 to 35kgf/cm ₂)	JTC940A	350

Selections						Additional price	
I	Output	4 to 20mA		1		0	
		Digital output (DE protocol)		3	*1,*2	0	
		4 to 20mA (HART Communication)		5	*3,*4	5	
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange	Wetted part of reference side		
		*10 SCS14A *32	SUS316	Tantalum	SUS316*9	H	129
		*10 SCS14A *32	SUS316	SUS316 *9	SUS316*9	E	0
		*10 SCS14A *32	SUS316	SUS316L	SUS316*9	L	19
		*10 SCS14A *32	SUS316	HastelloyC	SUS316*9	F	87
III	Fill Fluid	For oxygen service (Fluorine oil)			2	62	
IV	Process connection	Rc 1/2, top connection		A		0	
		Rc 1/2, bottom connection		B		0	
		1/2 NPT internal thread, top connection		F		0	
		1/2 NPT internal thread, bottom connection		G		0	
		Rc 1/4, top connection		L		0	
		Rc 1/4, bottom connection		M		0	
		1/4 NPT internal thread, top connection		R		0	
		1/4 NPT internal thread, bottom connection		S		0	
		Open to atmosphere *10		W		0	
V	Flange rating	JIS 10K		A		0	
		JIS 20K		C		25	
		JIS 30K		D		35	
		*11	JIS 63K		F		50
			ANSI 150		G		0
			ANSI 300		H		25
		*11	ANSI 600		J		50
			JPI 150		N		0
			JPI 300		P		25
				*11 JPI 600		Q	
VI	Flange size	2 in./50mm		3		0	
		1.5 in./40mm *11		4		0	
VII	Flange type	Standard		1		0	
VIII	Flange material/bolt and nut	SUS304/Carbon steel		D		0	
		SUS304/SUS304		E		11	
		SUS304/SUS630		F		20	
		SUS316/Carbon steel		G		40	
		SUS316/SUS304		H		51	
		SUS316/SUS630		J		60	
		SUS316L/Carbon steel		K		50	
		SUS316L/SUS304		L		61	
		SUS316L/SUS630		M		70	

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).
- When a wetted part is SUS316, the diaphragm material is SUS316L.
- When "Open to atmosphere" of process connection is selected, the meterbody cover is SUSF304 instead of SUSF311
- Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating
- SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-14
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH ₂ O)	Medium differential pressure	Chlorine service(Fluorine oil) ; Flush diaphragm 2 in. (50mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ²)	High differential pressure	Chlorine service(Fluorine oil) ; Flush diaphragm 2 in. (50mm)

Basic model No. - I II III IV V VI VII VIII- IX X XI XII XIII - Options 2 Options 1, 2 : Refer to page 1-4-19

Basic Model No.	Measuring span	Pressure range/style	Model	Basic price
	2.5 to 100kPa(250 to 10,160mmH ₂ O)		JTC929A	350
	70 to 3500kPa(0.70 to 35kgf/cm ²)		JTC940A	350

Selections						Additional price
I	Output	4 to 20mA		1		0
		Digital output (DE protocol)		3	*1,*2	0
		4 to 20mA (HART Communication)		5	*3,*4	5
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side	
		*10 SCS14A	SUS316	Tantalum	SUS316 *9 H	129
III	Fill Fluid	For Chlorine service (Fluorine oil)			5	62
IV	Process connection	Rc 1/2, top connection		A		0
		Rc 1/2, bottom connection		B		0
		1/2 NPT internal thread, top connection		F		0
		1/2 NPT internal thread, bottom connection		G		0
		Rc 1/4, top connection		L		0
		Rc 1/4, bottom connection		M		0
		1/4 NPT internal thread, top connection		R		0
		1/4 NPT internal thread, bottom connection		S		0
		Open to atmosphere *10		W		0
V	Flange rating	JIS 10K		A		0
		JIS 20K		C		25
		JIS 30K		D		35
		*11 JIS 63K		F		50
		ANSI 150		G		0
		ANSI 300		H		25
		*11 ANSI 600		J		50
		JPI 150		N		0
		JPI 300		P		25
		*11 JPI 600		Q		50
VI	Flange size	2 in./50mm		3		0
VII	Flange type	Standard		1		0
VIII	Flange material/bolt and nut	SUS304/Carbon steel		D		0
		SUS304/SUS304		E		11
		SUS304/SUS630		F		20
		SUS316/Carbon steel		G		40
		SUS316/SUS304		H		51
		SUS316/SUS630		J		60
		SUS316L/Carbon steel		K		50
		SUS316L/SUS304		L		61
		SUS316L/SUS630		M		70

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).
- 9 When a wetted part is SUS316, the diaphragm material is SUS316L.
- 10 When "Open to atmosphere" of process connection is selected, the meterbody cover is SUSF304 instead of SUSF31
- 11 Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating
- 32 SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

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

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH ₂ O)	Medium differential pressure Regular service(Silicon oil)	Extended flange type 4 in.(100mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ²)	High differential pressure Regular service(Silicon oil)	Extended flange type 4 in.(100mm)

Selections Options 1

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

Options 1, 2 : Refer to page 1-4-19

Basic Model No.	Measuring span	Pressure range/style	Model	Basic price
	2.5 to 100kPa(250 to 10,160mmH ₂ O)		JTC929A	391
	70 to 3500kPa(0.70 to 35kgf/cm ²)		JTC940A	391

Selections						Additional price
I	Output	4 to 20mA	1			0
		Digital output (DE protocol)	3	*1,*2		0
		4 to 20mA (HART Communication)	5	*3,*4		5
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side	
		*10 SCS14A *32	SUS316	SUS316 *9	SUS316 *9 E	0
		*10 SCS14A *32	SUS316	SUS316L	SUS316 *9 L	209
III	Fill Fluid	Regular type (Silicone oil)	1			0
IV	Process connection (Reference side)	Rc 1/2, top connection	A			0
		Rc 1/2, bottom connection	B			0
		1/2 NPT internal thread, top connection	F			0
		1/2 NPT internal thread, bottom connection	G			0
		Rc 1/4, top connection	L			0
		Rc 1/4, bottom connection	M			0
		1/4 NPT internal thread, top connection	R			0
		1/4 NPT internal thread, bottom connection	S			0
	Open to atmosphere *10	W			0	
V	Flange rating	JIS 10K	A			0
		JIS 20K	C			25
		JIS 30K	D			35
		ANSI 150	G			0
		ANSI 300	H			25
		JPI 150	N			0
		JPI 300	P			25
VI	Flange size	4in./100mm	1			0
VII	Flange type	Length of extended part 50mm	2			58
		Length of extended part 100mm	3			68
		Length of extended part 150mm	4			75
		Length of extended part 200mm	5			83
		Length of extended part 250mm	6			93
		Length of extended part 300mm	7			103
VIII	Flange material/bolt and nut	SUS304/Carbon steel	D			0
		SUS304/SUS304	E			11
		SUS304/SUS630	F			20
		SUS316/Carbon steel	G			40
		SUS316/SUS304	H			51
		SUS316/SUS630	J			60
		SUS316L/Carbon steel	K			50
		SUS316L/SUS304	L			61
	SUS316L/SUS630	M			70	

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).
- This can be selected for the meterbody cover if the process fluid contains hydro-carbon or H₂S which used for Refinery/Petrochemical. In other cases, select Carbon steel Ni plating for meterbody cover.
- When a wetted part is SUS316, the diaphragm material is SUS316L.
- When "Open to atmosphere" of process connection is selected, the meterbody cover is SUSF304 instead of SUSF316
- Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating
- SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-16
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH2O)	Medium differential pressure	Oxygen service(Fluorine oil)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2)	High differential pressure	Oxygen service(Fluorine oil)

Selections Options 1

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

Options 1, 2 : Refer to page 1-4-19

Basic Model No.			Basic price
Measuring span	2.5 to 100kPa (250 to 10,160mmH2O)	JTC929A	391
	70 to 3500kPa (0.70 to 35kgf/cm2)	JTC940A	391

Selections						Additional price
I	Output	4 to 20mA		1		0
		Digital output (DE protocol)		3	*1,*2	0
		4 to 20mA (HART Communication)		5	*3,*4	5
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side	
		*10 SCS14A *3	SUS316	SUS316 *9	SUS316 *9 E	0
		*10 SCS14A *3	SUS316	SUS316L	SUS316 *9 L	209
III	Fill Fluid	For oxygen service (Fluorine oil)		2		62
IV	Process connection	Rc 1/2, top connection		A		0
		Rc 1/2, bottom connection		B		0
		1/2 NPT internal thread, top connection		F		0
		1/2 NPT internal thread, bottom connection		G		0
		Rc 1/4, top connection		L		0
		Rc 1/4, bottom connection		M		0
		1/4 NPT internal thread, top connection		R		0
		1/4 NPT internal thread, bottom connection		S		0
Open to atmosphere *10		W		0		
V	Flange rating	JIS 10K		A		0
		JIS 20K		C		25
		JIS 30K		D		35
		ANSI 150		G		0
		ANSI 300		H		25
		JPI 150		N		0
		JPI 300		P		25
VI	Flange size	4 in. /100mm		1		0
VII	Flange type	Length of extended part 50mm		2		58
		Length of extended part 100mm		3		68
		Length of extended part 150mm		4		75
		Length of extended part 200mm		5		83
		Length of extended part 250mm		6		93
		Length of extended part 300mm		7		103
VIII	Flange material/bolt and nut	SUS304/Carbon steel		D		0
		SUS304/SUS304		E		11
		SUS304/SUS630		F		20
		SUS316/Carbon steel		G		40
		SUS316/SUS304		H		51
		SUS316/SUS630		J		60
		SUS316L/Carbon steel		K		50
		SUS316L/SUS304		L		61
SUS316L/SUS630		M		70		

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).
- 9 When a wetted part is SUS316, the diaphragm material is SUS316L.
- 10 When "Open to atmosphere" of process connection is selected, the meterbody cover is SUSF304 instead of SUSF316
- 32 SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-17
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH2O) Medium differential pressure	Regular service(Silicon oil)	Extended flange type 3 in.(80mm)/2 in.(50mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2) High differential pressure	Regular service(Silicon oil)	Extended flange type 3 in.(80mm)/2 in.(50mm)

Selections Options 1

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

Options 1, 2 : Refer to page 1-4-19

Basic Model No.	Measuring span	Pressure range	Service (Fill fluid)	Process connection	Basic price
	2.5 to 100kPa(250 to 10,160mmH2O)	JTC929A			391
	70 to 3500kPa(0.70 to 35kgf/cm2)	JTC940A			391

Selections						Additional price
I	Output	4 to 20mA	1			0
		Digital output (DE protocol)	3	*1,*2		0
		4 to 20mA (HART Communication)	5	*3,*4		5
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side	
		*10 SCS14A *32	SUS316	SUS316 *9	SUS316 *9 E	0
		*10 SCS14A *32	SUS316	SUS316L	SUS316 *9 L	209
III	Fill Fluid	Regular type (Silicone oil)		1		0
IV	Process connection (Reference side)	Rc 1/2, top connection		A		0
		Rc 1/2, bottom connection		B		0
		1/2 NPT internal thread, top connection		F		0
		1/2 NPT internal thread, bottom connection		G		0
		Rc 1/4, top connection		L		0
		Rc 1/4, bottom connection		M		0
		1/4 NPT internal thread, top connection		R		0
		1/4 NPT internal thread, bottom connection		S		0
	Open to atmosphere *10		W		0	
V	Flange rating	JIS 10K		A		0
		JIS 20K		C		25
		JIS 30K		D		35
		ANSI 150		G		0
		ANSI 300		H		25
		JPI 150		N		0
		JPI 300		P		25
VI	Flange size	3 in./80mm	2			0
		2 in./50mm	3			0
VII	Flange type	Length of extended part 50mm	2			58
		Length of extended part 100mm	3			68
		Length of extended part 150mm	4			75
VIII	Flange material/bolt and nut	SUS304/Carbon steel		D		0
		SUS304/SUS304		E		11
		SUS304/SUS630		F		20
		SUS316/Carbon steel		G		40
		SUS316/SUS304		H		51
		SUS316/SUS630		J		60
		SUS316L/Carbon steel		K		50
		SUS316L/SUS304		L		61
	SUS316L/SUS630		M		70	

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).
- This can be selected for the meterbody cover if the process fluid contains hydro-carbon or H2S which used for Refinery/Petrochemical. In other cases, select Carbon steel Ni plating for meterbody cover.
- When a wetted part is SUS316, the diaphragm material is SUS316L.
- When "Open to atmosphere" of process connection is selected, the meterbody cover is SUSF304 instead of SUSF316
- SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-18
Effective: Dec. 1, 2009	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A: 2.5 to 100kPa(250 to 10,160mmH2O)	Medium differential pressure	Oxygen service(Fluorine oil)	Extended flange type 3 in.(80mm)/2 in.(50mm)
JTC940A: 70 to 3500kPa(0.70 to 35kgf/cm2)	High differential pressure	Oxygen service(Fluorine oil)	Extended flange type 3 in.(80mm)/2 in.(50mm)

Selections Options 1

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

Options 1, 2 : Refer to page 1-4-19

Basic Model No.			Basic price
Measuring span	2.5 to 100kPa(250 to 10,160mmH2O)	JTC929A	391
	70 to 3500kPa(0.70 to 35kgf/cm2)	JTC940A	391

Selections						Additional price
I	Output	4 to 20mA		1		0
		Digital output (DE protocol)		3	*1,*2	0
		4 to 20mA (HART Communication)		5	*3,*4	5
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side	
		*10 SCS14A	SUS316	SUS316 *9	SUS316 *9 E	0
		*10 SCS14A *32	SUS316	SUS316L	SUS316 *9 L	209
III	Fill Fluid	For oxygen service (Fluorine oil)			2	62
IV	Process connection	Rc 1/2, top connection		A		0
		Rc 1/2, bottom connection		B		0
		1/2 NPT internal thread, top connection		F		0
		1/2 NPT internal thread, bottom connection		G		0
		Rc 1/4, top connection		L		0
		Rc 1/4, bottom connection		M		0
		1/4 NPT internal thread, top connection		R		0
		1/4 NPT internal thread, bottom connection		S		0
		Open to atmosphere *10		W		0
V	Flange rating	JIS 10K		A		0
		JIS 20K		C		25
		JIS 30K		D		35
		ANSI 150		G		0
		ANSI 300		H		25
		JPI 150		N		0
		JPI 300		P		25
VI	Flange size	3 in./80mm		2		0
		2 in./50mm		3		0
VII	Flange type	Length of extended part 50mm		2		58
		Length of extended part 100mm		3		68
		Length of extended part 150mm		4		75
VIII	Flange material/bolt and nut	SUS304/Carbon steel		D		0
		SUS304/SUS304		E		11
		SUS304/SUS630		F		20
		SUS316/Carbon steel		G		40
		SUS316/SUS304		H		51
		SUS316/SUS630		J		60
		SUS316L/Carbon steel		K		50
		SUS316L/SUS304		L		61
		SUS316L/SUS630		M		70

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).
- When a wetted part is SUS316, the diaphragm material is SUS316L.
- When "Open to atmosphere" of process connection is selected, the meterbody cover is SUSF304 instead of SUSF316
- SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Dec. 15, 2000	Page: 1-4-19
Effective: Aug. 1, 2011	UNIT: 1000YEN

Selections Options 1

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

				Additional price
Options1				
IX	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, TIIIS Flameproof with 1 pc. Of cable gland attached	2	14
		G1/2, TIIIS Flameproof with 2 pcs. Of cable gland attached	3	23
		G1/2, TIIIS 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 % linear 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	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

Option 2

				Additional prices
	XX	No options		0
	A2	External Zero adjustment *2		30
	A4	Lightning arrester		18
	A5	Long vent/drain plugs		10
	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
	D3	FEP protective film		11
	G1	One elbow (left)		2
	G2	One elbow (right)		2
	G3	2 elbows		4
	G6	Adapter for dual diaphragm		Refer to Next Pages
	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(for regular service) *21		40
	T8	Traceability certificate		10
	U2	Non-SI unit conformance		0
	E4	Dingham Tickness 0.1mm 3in *41		130
	E4	Dingham Tickness 0.1mm 4in *41		300

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.
- When the fill fluid is for oxygen or chroline service, there is not needed to select this.
- "Lower limit of output at abnormal condition" - code D must be selected for Options 1 "V", Burnout feature.
- Available only for material of wetted part.
- When ordering, withstand pressure and airtight test pressure are required.
- When ordering, designed pressure, designed temperature, bolt/nut material, and gasket material are required.
- Available only for wetted part material "SUS316,SUS316L".

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-20
Effective: Dec. 1, 2009	UNIT: 1000YEN

Dual diaphragm adapter (Flush flange 3 in.),

For regular service (fill fluid : silicon oil), oxygen service and chlorine service (fill fluid :

Selections Options

HH -I II III IV V VI V - VIII

Basic Model No.	Basic price
Adpater for dual diaphragm HH	72

Additional price

Selections				Additional price
I	Transmitter model number	JTC with 1 adapter	C	0
II	Material of wetted part	SUS316 (Diaphragm:SUS316)	2	0
		Tantalum	4	68
		Hasterlloy C	H	38
		SUS316L	8	3
III	Fill fluid	Regular type (Silicone oil)	1	0
		For oxygen service (Fluorine oil)	2	0
		For Chlorine service (Fluorine oil)	5	0
IV	Flange rating	JIS 10K	A	0
		JIS 20K	C	0
		JIS 30K	D	0
		ANSI 150	G	0
		ANSI 300	H	0
		JPI 150	N	0
		JPI 300	P	0
V	Flange size	3 in. /80 mm	2	0
VI	Flange type	Standard (Flush diaphragm)	1	0
VII	Finish of gasket face	Standard	X	0

Options

VIII	No options	XX	0
	*13 Water free and oil free treatment	D1	0
	*13 Oil free treatment	D2	0
	*13 Material certificate	T2	0
	*13 Pressure test	T7	0

Notes

13 When this option is selected, the same option for transmitter must be selected.

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-21
Effective: Dec. 1, 2009	UNIT: 1000YEN

Dual diaphragm adapter (Flush flange 2 in.),

For regular service (fill fluid : silicon oil), oxygen service and chlorine service(fill fluid

Selections Options

HH - I II III IV V VI - VIII

Basic Model No.

				Basic price
	Adpater for dual diaphra	HH		72

Additional price

Selections

I	Transmitter model number	JTC with 1 adapter	C		0
II	Material of wetted part	SUS316 (Diaphragm:SUS316)	2		0
		Tantalum	4		68
		SUS316L	8		3
III	Fill fluid	Regular type (Silicone oil)	1		0
		For oxygen service (Fluorine oil)	2		0
		For Chlorine service (Fluorine oil)	5		0
IV	Flange rating	JIS 10K	A		0
		JIS 20K	C		0
		JIS 30K	D		0
		ANSI 150	G		0
		ANSI 300	H		0
		JPI 150	N		0
		JPI 300	P		0
V	Flange size	2 in. /50 mm	3		0
VI	Flange type	Standard (Flush diaphragm)	1		0
VII	Finish of gasket face	Standard	X		0

Options

VIII		No options	XX		0
	*13	Water free and oil free treatment	D1		0
	*13	Oil free treatment	D2		0
	*13	Material certificate	T2		0
	*13	Pressure test	T7		0

Notes

13 When this option is selected, the same option for transmitter must be selected.

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued: Spt. 15, 2001	Page: 1-4-22
Effective: Sep. 1, 2010	UNIT: 1000YEN

Model	Pressure range/style		Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH2O)	Medium differential	Sanitary (Propyleneglycol)	4S clamp
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2)	High differential pressure	Sanitary (Propyleneglycol)	4S clamp

Selections Options 1

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

Basic Model No.			Basic price
Measuring span	2.5 to 100kPa(250 to 10,160mmH2O)	JTC929A	350
	70 to 3500kPa(0.70 to 35kgf/cm2)	JTC940A	350

Selections				Additional price
I	Output	4 to 20mA	1	0
II	Material of wetted part	Ferrule	Wetted part	
		SUS316L	SUS316L	L
III	Fill Fluid	Propyleneglycol (Food additive)	B	80
IV	Process connection	Open to atmosphere	V	0
V	Flange rating	IDF	U	0
VI	Clamp size	Clamp 4S	A	0
VII	Ferrule type	Standard (Flush diaphragm)	1	0
		Length of extended part 50mm	2	80
		Length of extended part 100mm	3	98
VIII	Material of Flange/bolt and	No flange/without bolt and nut	1	25

Options1

IX	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, T11S Flameproof with 1 pc. Of cable gland attached.	2	14
		G1/2, T11S Flameproof with 2 pcs. Of cable gland attached.	3	23
X	Building indicating smart meter	None	X	0
		0 to 100 % linear scales	1	25
		Engineering unit scales	2	30
XI	Finish	Standard	X	0
		Corrosion-proof	B	14
XII	Finish of gasket face	Standard (JISRa3.2(12.5S))	X	0
		Electro polishing	A	15
		Passivation	B	15
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

Option 2

		Additional price		
	No options	XX	0	
	External Zero adjustment	A2	30	
	Lightning arrester	A4	18	
	Water free finish (included oil free finish)	D1	29	
	Oil free finish	D2	19	
	One elbow (right)	G2	2	
	Special burn-out feature (3.2mA) *18	J8	20	
	Test report	T1	2	
	Traceability certificate	T8	10	
	IDF clamp with gaskets for Flush diaphragm type	S1	15	
	IDF clamp	S2	10	
	Gaskets for Flush diaphragm type	S3	5	
	Extended type Tank spud for 4S clamp	S4	50mm	100mm
			120	160
	Non-SI unit conformance	U2	0	

Notes

18 "Lower limit of output at abnormal condition" - code D must be selected for Options 1 "V", Burnout feature.