

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)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2)	High differential pressure	Regular service(Silicon oil)
			Flush diaphragm 3 in. (80mm)
			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.	Measuring span	Pressure range/style	Model	Basic price
	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	
		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.
- 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)

Basic model No. - I II III IV V VI VII VIII - IX X XI XII XIII - Options 2
 Selections Options 1
 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 10,160mmH2O)		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 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
			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).
- 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.	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 side	Wetted part of reference side	
		*10 SCS14A *32	SUS316	Tantalum	SUS316 * H	95
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
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 SUSF3
- 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 : 1-4-12
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 2 in. (50mm)/1.5 in.(40mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2) ; High differential pressure	Regular service(Silicon oil)	Flush diaphragm 2 in. (50mm)/1.5 in.(40mm)

Selections Options 1

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

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

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			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
		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
- 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 10,160mmH2O)	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	Pressure range/style	Model	Basic price
	2.5 to 100kPa(250 to 10,160mmH2O)		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 *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		50
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 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 : 1-4-14
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.			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 SUS14A #22	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

- 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 SUSF3
- 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 : 1-4-15
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 4 in. (100mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2)	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 10,160mmH2O)	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	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) ; Extended flange type 4 in.(100mm)}
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2)	High differential pressure	{Oxygen service(Fluorine oil) ; Extended flange type 4 in.(100mm)}

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	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	E	0
		*10	SCS14A *3	SUS316	SUS316L	SUS316 *9	L
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

- 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 : 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/style	Model	Basic price
	2.5 to 100kPa(250 to 10,160mmH2O)		JTC929A	391
	70 to 3500kPa(0.70 to 35kgf/cm2)		JTC940A	391

Additional price

Selections	Options	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 SUSF3
- 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 10,160mmH ₂ O) ; Medium differential pressure	Oxygen service(Fluorine oil)	Extended flange type 3 in.(80mm)/2 in.(50mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ₂) ; High differential pressure	Oxygen service(Fluorine oil)	Extended flange type 3 in.(80mm)/2 in.(50mm)

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 10,160mmH 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 SUS14A *32	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

Selections Options 1

Issued : Spt. 15, 2001	Page : 1-4-19
Effective : Dec. 1, 2009	UNIT : 1000YEN

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

Options1				Additional price
IX	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, TIIS Flameproof with 1 pc. Of cable gland attached	2	14
		G1/2, TIIS Flameproof with 2 pcs. Of cable gland attached	3	23
		G1/2, TIIS intrinsically safe	K	5
		1/2 NPT, Watertight	A	0
X	Built-in 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 price
XX	No options		0
A2	External Zero adjustment *2		30
A4	Lightning arrestor		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	Dinghlam Tickness 0.1mm 3in *41		130
E4	Dinghlam 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 chlorine 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 : Apr. 1, 2007	UNIT : 1000YEN

Dual diaphragm adapter (Flush flange 3 in.),

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

Selections Options

HH -I II III IV V VI VII - VIII

Basic Model No.

Adpater for dual diaphragm			HH	Basic price
				72

Additional price

Selections

I	Transmitter model number	JTC with 1 adapter	C		0
II	Material of wetted part	SUS316 (Diaphragm:SUS316L)	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 : Apr. 1, 2007	UNIT : 1000YEN

Dual diaphragm adapter (Flush flange 2 in.),

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

Selections Options

HH - I II III IV V VI \ - VIII

Basic Model No.

Adpater for dual diaphragm	HH		Basic price
			72

Additional price

Selections

I	Transmitter model number	JTC with 1 adapter	C		0
II	Material of wetted part	SUS316 (Diaphragm:SUS316L)	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 : 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	Sanitary (Propyleneglycol) 4S clamp
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ²)	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 10,160mmH 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
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	Flange/bolt and nut	Ferrule	V	25

Options1

IX	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, TIIS Flameproof with 1 pc. Of cable gland attached.	2	14
		G1/2, TIIS 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.