

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued : Spt. 15, 2001	Page : 1-4-9
Effective : Jan. 1, 2003	UNIT : 1000YEN

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

Selections							Additional price	
I	Output	4 to 20mA		1			0	
		4 to 20mA (Analog FSK communication)		2	*3		10	
		Digital output (DE protocol)		3	*1, *2		0	
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side			
		*8 Carbon steel Zn plating	SUS316	SUS316 *9	SUS316 *9	A	0	
		*8 Carbon steel Zn plating	SUS316	HastelloyC	SUS316 *9	B	53	
		*8 Carbon steel Zn plating	SUS316	Tantalum	SUS316 *9	D	95	
		*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	
		*8 Carbon steel Ni plating	SUS316	SUS316L	SUS316 *9	7	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	Carbon steel			A		0	
		Carbon steel/SUS304			B		11	
		Carbon steel/SUS630			C		20	
		SUS304/Carbon steel			D		25	
		SUS304/SUS304			E		36	
		SUS304/SUS630			F		45	
		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.
- Analog FSK Communication can not be combined with Intrinsically safe.
- 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

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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.	Measuring span	Pressure range/style	Service (Fill fluid)	Process connection	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	
		4 to 20mA (Analog FSK communication)		2	*3	10	
		Digital output (DE protocol)		3	*1, *2	0	
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	
VII	Flange type	Standard		1		0	
VIII	Flange material/bolt and nut	Carbon steel/Carbon steel		A		0	
		Carbon steel/SUS304		B		11	
		Carbon steel/SUS630		C		20	
		SUS304/Carbon steel		D		25	
		SUS304/SUS304		E		36	
		SUS304/SUS630		F		45	
		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 Analog FSK Communication can not be combined with Intrinsically safe.
- 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

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Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH2O)	Medium differential pressure	Chlorine service(Fluorine oil)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2)	High differential pressure	Chlorine 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	350
	70 to 3500kPa(0.70 to 35kgf/cm2)	JTC940A	350

Selections							Additional price
I	Output	4 to 20mA		1			0
		4 to 20mA (Analog FSK communication)		2	*3		10
		Digital output (DE protocol)		3	*1, *2		0
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		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		0
VII	Flange type	Standard			1		0
VIII	Flange material/bolt and nut	Carbon steel/Carbon steel			A		0
		Carbon steel/SUS304			B		11
		Carbon steel/SUS630			C		20
		SUS304/Carbon steel			D		25
		SUS304/SUS304			E		36
		SUS304/SUS630			F		45
		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 Analog FSK Communication can not be combined with Intrinsically safe.
- 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
- 11 Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating
- 32 SCS14A (equivalent to SUS316) or SUSF316

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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

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	Service (Fill fluid)	Process connection	Basic price
	2.5 to 100kPa (250 to 10,160mmH2O)	JTC929A		350
	70 to 3500kPa (0.70 to 35kgf/cm2)	JTC940A		350

							Additional price
I	Output	4 to 20mA		1			0
		4 to 20mA (Analog FSK communication)		2	*3		10
		Digital output (DE protocol)		3	*1, *2		0
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side		
		*8 Carbon steel Zn plating	SUS316	SUS316 *9	SUS316 *9	A	0
		*8 Carbon steel Zn plating	SUS316	HastelloyC	SUS316 *9	B	87
		*8 Carbon steel Zn plating	SUS316	Tantalum	SUS316 *9	D	129
		*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
*8 Carbon steel Ni plating	SUS316	SUS316L	SUS316 *9	7	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	Carbon steel		A		0	
		Carbon steel/SUS304		B		11	
		Carbon steel/SUS630		C		20	
		SUS304/Carbon steel		D		25	
		SUS304/SUS304		E		36	
		SUS304/SUS630		F		45	
		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.
- Analog FSK Communication can not be combined with Intrinsically safe.
- 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

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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.	Measuring span	Basic price
	2.5 to 100kPa(250 to 10,160mmH2O)	JTC929A
	70 to 3500kPa(0.70 to 35kgf/cm2)	JTC940A
		350
		350

Selections							Additional price
I	Output	4 to 20mA		1			0
		4 to 20mA (Analog FSK communication)		2	*3		10
		Digital output (DE protocol)		3	*1, *2		0
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	Carbon steel		A		0	
		Carbon steel/SUS304		B		11	
		Carbon steel/SUS630		C		20	
		SUS304/Carbon steel		D		25	
		SUS304/SUS304		E		36	
		SUS304/SUS630		F		45	
		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 Analog FSK Communication can not be combined with Intrinsically safe.
- 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
- 11 Dual diaphragm is not available for JIS63K, ANSI600 and JPI600 for a flange rating
- 32 SCS14A (equivalent to SUS316) or SUSF316

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Model	Pressure range/style	Service (Fill fluid)	Process connection
JTC929A	2.5 to 100kPa(250 to 10,160mmH2O) Medium differential pressure	Chlorine service(Fluorine oil)	Flush diaphragm 2 in. (50mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm2) High differential pressure	Chlorine service(Fluorine oil)	Flush diaphragm 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	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
		4 to 20mA (Analog FSK communication)	2	*3			10
		Digital output (DE protocol)	3	*1, *2			0
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
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	Carbon steel	A			0	
		Carbon steel/SUS304	B			11	
		Carbon steel/SUS630	C			20	
		SUS304/Carbon steel	D			25	
		SUS304/SUS304	E			36	
		SUS304/SUS630	F			45	
		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 Analog FSK Communication can not be combined with Intrinsically safe.
- 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
- 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

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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)
			Extended flange type 4 in.(100mm)
			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	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
		4 to 20mA (Analog FSK communication)		2	*3		10
		Digital output (DE protocol)		3	*1, *2		0
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side		
		*8 Carbon steel Zn plating	SUS316	SUS316 *9	SUS316 *9 A		0
		*10 SCS14A *32	SUS316	SUS316 *9	SUS316 *9 E		0
		*10 SCS14A *32	SUS316	SUS316L	SUS316 *9 L		209
	*8 Carbon steel Ni plating	SUS316	SUS316L	SUS316 *9	7		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	Carbon steel			A		0
		Carbon steel/SUS304			B		11
		Carbon steel/SUS630			C		20
		SUS304/Carbon steel			D		25
		SUS304/SUS304			E		36
		SUS304/SUS630			F		45
		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
- Analog FSK Communication can not be combined with Intrinsically safe.
- 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 SUS304 instead of SUS316
- 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

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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)

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
		4 to 20mA (Analog FSK communication)	2	*3			10
		Digital output (DE protocol)	3	*1, *2			0
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	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	Carbon steel	A			0	
		Carbon steel/SUS304	B			11	
		Carbon steel/SUS630	C			20	
		SUS304/Carbon steel	D			25	
		SUS304/SUS304	E			36	
		SUS304/SUS630	F			45	
		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 Analog FSK Communication can not be combined with Intrinsically safe.
- 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 : Jan. 1, 2003	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)

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 10,160mmH2O)	JTC929A
	70 to 3500kPa(0.70 to 35kgf/cm2)	JTC940A

Selections							Additional price
I	Output	4 to 20mA		1			0
		4 to 20mA (Analog FSK communication)		2	*3		10
		Digital output (DE protocol)		3	*1, *2		0
II	Material	Meterbody cover	Vent/Drain plugs	Wetted part of Flange side	Wetted part of reference side		
		*8 Carbon steel Zn plating	SUS316	SUS316 *9	SUS316 *9	A	0
		*10 SCS14A *32	SUS316	SUS316 *9	SUS316 *9	E	0
		*10 SCS14A *32	SUS316	SUS316L	SUS316 *9	L	209
	*8 Carbon steel Ni plating	SUS316	SUS316L	SUS316 *9	7	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	Carbon steel			A		0
		Carbon steel/SUS304			B		11
		Carbon steel/SUS630			C		20
		SUS304/Carbon steel			D		25
		SUS304/SUS304			E		36
		SUS304/SUS630			F		45
		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.
- Analog FSK Communication can not be combined with Intrinsically safe.
- 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 SUS304 instead of SUS316.
- SCS14A (equivalent to SUS316) or SUSF316

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued : Spt. 15, 2001	Page : 1-4-18
Effective : Jan. 1, 2003	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
		4 to 20mA (Analog FSK communication)	2	*3			10
		Digital output (DE protocol)	3	*1, *2			0
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	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	Carbon steel		A		0	
		Carbon steel/SUS304		B		11	
		Carbon steel/SUS630		C		20	
		SUS304/Carbon steel		D		25	
		SUS304/SUS304		E		36	
		SUS304/SUS630		F		45	
		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
- Analog FSK Communication can not be combined with Intrinsically safe.
- 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 : 14-19
Effective : Jan. 1, 2003	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
IX	Electrical connection / explosion-proof	G1/2, Watertight	X		0
		G1/2, JIS Flameproof with 1 pc. Of cable gland attached.	2		14
		G1/2, JIS Flameproof with 2 pcs. Of cable gland attached.	3		23
		G1/2, intrinsically safe *3	6		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 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

				Additional prices
	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) *16 *17		29
	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		130
	E4	Dinghlam Tickness 0.1mm 4in		300

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 Analog FSK Communication can not be combined with Intrinsically safe.
- 16 When the fill fluid is for oxygen or chroline 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.
- 21 When ordering, withstand pressure and airtight test pressure are required.
- 40 When ordering, designed pressure, designed temperature, boit/nut material, and gasket material are required.

ST3000 New Ace Electric Differential Pressure Transmitter Flange style

Issued : Spt. 15, 2001	Page : 1-4-20
Effective : Jan. 1, 2003	UNIT : 1000YEN

Dual diaphragm adapter (Flush flange 3 in.),

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

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

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Effective : Jan. 1, 2003	UNIT : 1000YEN

Dual diaphragm adapter (Flush flange 2 in.),

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

Selections Options

HH -I II III IV V VI V - 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 : Jun. 1, 2003	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.	Measuring span	Pressure range/style	Service (Fill fluid)	Process connection	Basic price
	2.5 to 100kPa(250 to 10,160mmH2O)	Medium differential	Sanitary (Propyleneglycol)	4S clamp	350
	70 to 3500kPa(0.70 to 35kgf/cm2)	High differential pressure	Sanitary (Propyleneglycol)	4S clamp	350

Selections

Selections	Options	Additional price
I	Output 4 to 20mA 1	0
II	Material of wetted part Ferrule Wetted part	
	SUS316L SUS316L L	0
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 nut Ferrule R	25

Options1

Options1	Options	Additional price
IX	Electrical connection / explosion-proof G1/2, Watertight X	0
	G1/2, JIS Flameproof with 1 pc. Of cable gland attached. 2	14
	G1/2, JIS 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

Option 2	Options	Additional price
	No options XX	0
	External Zero adjustment A2	30
	Lightning arrestor 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.