

ST3000 New Ace Electric Differential Pressure Transmitter

Flange style

Issued : Spt. 15, 2001	Page : 1-4-9
Effective : Apr. 1, 2007	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

Additional price

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	
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 THIS intrinsically safe and 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
- 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 10,160mmH ₂ O)	Medium differential pressure	Flush diaphragm 3 in. (80mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ₂)	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.	Measuring span	Basic price
	2.5 to 100kPa(250 to 10,160mmH ₂ O)	JTC929A 350
	0.70 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	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
		*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 TIIS intrinsically safe and 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.
- 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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Flange style

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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 *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	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 TIIS intrinsically safe and 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

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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	Basic price
	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		
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 TIIS intrinsically safe and 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
- 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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Flange style

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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.			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 *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
			JPI 600			Q		50
		VI	Flange size	2 in./50mm			3	
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 TIIS intrinsically safe and 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

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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)

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 *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 TIIS intrinsically safe and 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

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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.			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 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 TIIS intrinsically safe and 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

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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 4 in.(100mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ²) 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 10,160mmH 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	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 TIIS intrinsically safe and 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 : Apr. 1, 2007	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 3 in.(80mm)/2 in.(50mm)
JTC940A	70 to 3500kPa(0.70 to 35kgf/cm ²) 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.				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

				Additional price
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Selections					Additional price		
I	Output	4 to 20mA		1	0		
		Digital output (DE protocol)		3 *1,*2	0		
		4 to 20mA (HART 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

- 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 TIIS intrinsically safe and Special burn-out feature.
- 4 The lowest output limit is -1.25%(3.8mA).
- 8 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.
- 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 : 1-4-18
Effective : Apr. 1, 2007	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 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 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

Additional price

Selections

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	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
V	Flange rating	Open to atmosphere *10			W		0
		JIS 10K			A		0
		JIS 20K			C		25
		JIS 30K			D		35
		ANSI 150			G		0
		ANSI 300			H		25
		JPI 150			N		0
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 TIIS intrinsically safe and 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 : 1-4-19
Effective : Apr. 1, 2007	UNIT : 1000YEN

Selections Options 1

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, 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

Option 2				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)			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

- 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 TIIS intrinsically safe and Special burn-out feature.
- 16 When the fill fluid is for oxygen or choline service, there is not needed to select this.
- 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, bolt/nut material, and gasket material are required.
- 41 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 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
		Hasterloy 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 : 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
		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 : Apr. 1, 2007	UNIT : 1000YEN

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

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	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
II Material of wetted part	Ferrule
	Wetted part
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	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
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 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.