STC **Manual & Actuated Process Valves Fine Quality** Precision Engineered Advanced Design ТΜ S T C **Excellent Prices**



connects fluid power to industrial automation ™

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STC Process Valve Numbering System Ordering Part No. = eg. 2W025-1/4-1-G **2W** 025 1/4 G 1 NC (Normally Closed) PORT SIZE (NPT) Model BODY SIZE VOLTAGE ELEC. CONNECTION NO (Normally Open) NC Brass High Pressure 1/8 **2L** 025 NC Engineered Plastic 2P 1/4 **2V** 040 NC Anodized Aluminum 3/8 BLANK = Standard DIN Con-nection (with Conduit Terminal) NC 304 Stainless Steel 3/8 **1** = 12 VDC **2S 160** 2 = 24 VDC 2A = 24 VAC NO 304 Stainless Steel **2SO** 1/2200 NC Brass **2W** 3/4 **G** = Grommet Terminal **3** = 110 VAC NO Brass **2WO** 250 (Options for 2P and 2V series 1 4 = 220VAC valves) NC Brass VX 350 1 1/4 NC Anodized Aluminum VXF 1 1/2 400 **AIR PILOT VALVES** 500 2 NC Brass QW NO Brass Air Pilot QWO

	Ordering Part No. = eg. 2W200C-1	2W	200C	1	
COILS		Μ	ODEL	VOL	TAGE
Coil for 2W & 2S 025 TO 250 series	valves	2W200C		1 = 12 VD	С
Coil for 2W & 2S 350 TO 500 series	valves	2W300C		2 = 24 VD	C
Coil for 2WO & 2SO 160 TO 500 ser	ies valves	2WO2500	;	$\frac{2A}{3} = 24 \text{ V/}$	AC
Coil for 2P & 2V Series Valves		200C		4 = 220VA	IC I

	Ordering Part No. = eg. V1-1/4	V1	1/4		
MANUAL BALL V	ALVES	MODEL	PORT SIZE (NPT)	Mounting	
Reduced port 316 SS ball valve (1 Piece)	V1	1/4		
Full port 316 SS ball valve (2 Piec	e)	V2	3/8	Blank - No mounting	
Full port 316 SS ball valve (3 Piec	e)	V3	1/2	Option	
Full port 316 SS ball valve (3 Piec	e, Tri-Clamp)	V3C	3/4	A=Actuator Mount	
Full port brass ball valve (2 Piece))	T101L	1	A-Actuator Mount	
Reduced port chrome plated bra	ss ball valve (FXF port)	T400	1 1/4	P= Panel Mount	
Reduced port chrome plated bra	ss ball valve (FXM port)	T400FM	1 1/2		
316 SS Needle valve		VNO1	2		
VALVE ACTUA	TORS	MODEL	Actuator Bore Size (mm)	Rotation	Action
			45		
			63		S=Single Acting
			83	90	(Spring Return)
ROTARY PNEUMATIC VAI	VE ACTUATORS	кт	105		(opg)
			140	180	D=Double Acting (Air
			160		Return
			210		
			280		



		ST	C Solend	oid Valve	e List Price									
		To Orde	er, Please Sp	ecify: 1. M	odel No. 2. Volta	ge								
Part No. List Price Port Size (NPT) Cv Voltage Features Image: Street Acting Normally Closed 2P025-1/8 \$18.43 1/8 0.23 2 Way. Direct Acting Normally Closed														
NOD GT - O NOT MARIN I St MARIN I St MARIN	2P025-1/8 2P025-1/4	\$18.43 \$18.43	1/8	0.23	-	2 Way, Direct Acting, Normally Closed Operating Temp: –5 to 80 deg. C								
Ê	2S025-1/4	\$30.69	1/4	0.23	Voltage Options:	Operating Pressure: Vacuum to 115 PSI Coil: F Class, IP65, 100% ED, 12-15 watts								
	2S040-3/8	\$42.57	3/8	0.6	1 = 12 VDC 2 = 24VDC	Service: Air, Gas, Liquid Seals: NBR, (Viton Option)								
Ninger Minger	2V025-1/8	\$18.81	1/8	0.23	2A=24VAC 3 = 110VAC 4 = 220VAC	Body Material:								
	2V025-1/4	\$18.81	1/4	0.23	-	2P Series: Engineered Plastic 2S Series: 304 Stainless Steel Body								
Weiller 1. m Weiller 1. m Weiller an Weiller and Ge	2W025-1/4	\$27.50	1/4	0.23	-	2V Series: Anodized Aluminum Body								
	2W040-3/8	\$34.16	3/8	0.6		2W Series: Brass								
	2W160-3/8	\$54.45	3/8	4.8		2 Way. Direct Acting/Lift. Normally Closed								
	2W160-1/2	\$54.45	1/2	4.8		Operating Temp: –5 to 80 deg. C								
0440 000 - 00 07 9103 100 V 1000 Ng 123 V 00 Ng 22 V 40 Ng 100	2W200-3/4	\$62.87	3/4	7.6		Operating Pressure: Vacuum to 115 PSI Coil: F Class, IP65, 100% ED, 12-15 watts								
	2W250-1	\$76.73	1	12		Service: Air, Gas, Liquid								
	2W350-1 1/4	\$169.29	1 1/4	24		Body Material: Brass								
	2W400-1 1/2	\$188.10	1 1/2	29										
	2W500-2	\$273.24	2	48										
	2S160-3/8	\$103.46	3/8	4.8										
	2S160-1/2	\$103.46	1/2	4.8		2 Way Direct Acting/Lift Normally Closed								
	2S200-3/4	\$117.32	3/4	7.6	Voltage Options: 1 = 12 VDC	Operating Temp: –5 to 80 deg. C								
	2S250-1	\$131.18	1	12	2 = 24VDC	Coil: F Class, IP65, 100% ED, 20-30 watts								
	2S350-1 1/4	\$239.71	1 1/4	24	2A=24VAC 3 = 110VAC	Seals: NBR, (Viton High Temp. Option)								
	2S400-1 1/2	\$255.75	1 1/2	29	4 = 220VAC	Body Material. 304 Stamless Steel								
	28500-2	\$399.56	2	48										
	QW-1/2	\$123.20	1/2	4.8		2 Way, Direct Acting, NC								
	QW-3/4	\$132.00	3/4	7.6		Operating Temp –5 to 80 deg. C								
	QW-1	\$162.00	1	12	Pilot Pressure: 80-150 PSI	Operating Pressure: 100 PSI Service: Air, Water. Oil. Gas								
	QW-1 1/2	\$266.37	1 1/2	29		Seals: Teflon								
	QW-2	\$332.97	2	48		Body Material: Brass								



	STC Solenoid Valve List Price												
To Order, Please Specify: 1. Model No. 2. Voltage Part No. List Price Port Size Cy Voltage Features													
	Part No.	List Price	Port Size (NPT)	Cv	Voltage	Features							
	2WO 160-3/8	\$91.58	3/8	4.8									
	2WO 160-1/2	\$91.58	1/2	4.8									
	2WO 200-3/4	\$99.88	3/4	7.6		Normally Open 2 Way, Direct Acting/Lift,							
	2WO 250-1	\$116.55	1	12									
	2WO 350-1 1/4	\$183.10	1 1/4	24		Operating Temp: –5 to 80 deg. C							
	2WO 400-1 1/2	\$203.42	1 1/2	29	Voltage Options:	Operating Pressure: Vacuum to 115 PSI							
	2WO 500-2	\$295.50	2	48	2 = 24VDC	Coil: F Class, IP65, 100% ED							
	2SO 160-3/8	\$119.00	3/8	4.8	2A=24VAC	Service: Air, Liquid							
	2SO 160-1/2	\$129.84	1/2	4.8	3 = 110VAC 4 = 220VAC	Seals: NBR (Option: Viton, EPDM)							
	2SO 200-3/4	\$151.51	3/8	7.6		Body Material:							
	2SO 250-1	\$238.00	1	12		2S Series: 304 Stainless Steel							
	Part No. 2WO 160-3/8 2WO 200-3/4 2WO 250-1 2WO 350-1 1/4 2WO 350-1 1/4 2WO 250-1 2WO 350-1 1/4 2WO 160-3/8 2WO 350-1 1/4 2WO 350-1 1/4 2SO 160-1/2 2SO 160-1/2 2SO 350-1 1/4 2SO 350-1 1/4 2SO 350-1 1/4 2L170-3/8 2L170-3/4 2L170-3/4 2L200-1 2L300-1 1/2 2L300-1 1/2 2L1300-3/8 2V130-3/8 2V130-3/8 2V130-3/8 2V130-3/8 2V130-3/4 2V130-3/4 QWO-1/2 QWO-1/2 QWO-1/2 QWO-3/4 QWO-1	\$335.41	1 1/4	24		2W/ Series: Brass							
	2SO 400-1 1/2	\$372.69	1 1/2	29									
	2SO 500-2	\$541.37	2	48									
0	2L170-3/8	\$87.95	3/8	4.8		Normally Closed, 2 Way, Direct Acting							
	2L170-1/2	\$103.46	1/2	4.8		Brass Body, Seals: PTFE							
0	2L170-3/4	\$117.32	3/4	4.8	Voltage Options: 1 = 12 VDC	Operating Temp: –5 to 150 deg. C							
	2L200-1	\$131.18	1	12	2 = 24VDC	Operating Pressure: 215 PSI							
	2L300-1 1/4	\$185.52	1 1/4	20	2A=24VAC 3 = 110VAC	Coil: F Class, IP65, 100% ED							
	2L300-1 1/2	\$216.32	1 1/2	20	4 = 220VAC	Service: Air, Gas, Liquid, Steam							
	2L500-2	\$325.22	2	48		Installation: Vertical Coil Position							
	2V130-3/8	\$58.80	3/8	4.8	Voltage Options:	Normally Closed 2 Way Direct Acting							
	2V130-1/2	\$58.80	1/2	4.8	1 = 12 VDC 2 = 24VDC	Brass Body, Seals: VITON							
ala	2V130-3/4	\$113.40	3/4	8	2A=24VAC	Operating Pressure: 140 PSI							
	2V130-1	\$113.40	1 Explosion Proof C	12 ail Option for	3 = 110VAC 4 = 220VAC	Service: Air, Gas, Water, Liquid							
	2000	\$78.60	all voltages w/ 1/2	2" conduit	Voltage Ontions:	Normally Closed 2 Way Direct Acting							
	VXF2120-1/8		1/8		1 = 12 VDC	Seals: NBR (Option: VITON)							
	VAF2120-1/4		2/9		2 - 24VDC	Operating Pressure: 150 PSI							
	VXF2120-3/0		1/2		3 = 110VAC	Service: Air, Liquid							
	0\W/0-1/2	\$112.00	1/2	4.8	4 = 220VAC	Body Material: Aluminum							
	QWO-3/4	\$132.00	3/4	7.6		Normally Open 2 Way, Direct Acting,							
	QWO-1	\$162.00	1	12	Pilot Pressure: 80-	Brass Body; Seals: Viton Operating Temp –5 to 80 deg. C							
	QWO-1 1/2	\$242.15	1 1/2	29	150 PSI	Operating Pressure: 100 PSI Air Pilot Pressure: 80-150 PSI							
	QWO-2	\$302.70	2	48		Service: Air, Water, Oil, Gas							

				E	lectrical Coil	List Price		
			Part No.	Price	Voltage Options	Electrical Connection	Power	Specifications
2W200C	2W350C	2WOC	2W200C	\$23.10	1 = 12 VDC 2 = 24VDC		13 to 20W	For 2S/2W 025 to 250 series valves
			2W350C	\$35.75	2A=24VAC 3 = 110VAC	D = DIN (5/16" strain relief connector)	25-65W	For 2/S2W 350-500 & 2L 170-500 series valves
200C-G	200C-D		2WOC	\$29.70	4 = 220VAC		40 W	For 2SO/2WO 160-500 series valves
		0	200C \$7.92		Duty Cycle: 100% ED	D = DIN (with LED indicator) G = Grommet (12" Lead Wire)	3 to 6.5 W	For 2V & 2P025-035 & 2V1, 3V1 series valves

Solenoid Valve Specifications

Valve Type	2P	2P 2S/2SO 2W/2WO		2L Series	VX Series 06 to 08	VX Series 10-15	QW			
Operating Pressure	-28" Hg to	o 150 PSI @30 Deg	g. C	0 to 210 PSI	0 to 145 PSI	0 to 145 PSI	0 to 85 PSI			
Operating Temperature		-5 TO 80 Deg. C		-5 TO 150 Deg. C	-5 TO 150 Deg. C	-5 TO 80 Deg. C	-5 TO 100 Deg. C			
Body Materials	Engineered Plastic 304 Stainless Brass			Brass	Brass	Brass	Brass			
Seal Materials		NBR		PTFE		NBR				
Coil Protection Insulation Class				F Class IP65	F Class IP65					
Coil Duty Cycle				100% ED						
Electrical Connections		DIN (with 3/8" S	train Relief Conne	ection)	Two 12" L	ead Wires	N/A			
Service	Va (Reverse flow dire	cuum, Air, Liquid ection for vacuum a	pplications)	Air, Liquid, Steam Installation -Vertical	Vacuum	, Air, Liquid	Air, Liquid, Gas			

. . .

			S	C val	ive Lis													
	1 Mer	a) 970 (319 100				5										
	Reduc Ball \	ed Port /alves	Full I Ball V	Port alves	Full Port Ball Valves		Full Port Ball Valves		rt Full Port res Butterfly Val		Full Port Butterfly Valves		Needle	Valves				
Model	V	/1	V	2	V	3	V3	iC	VBS0)1	VN	01						
Material	316	SS	316	SS	316	SS	316	SS	316 SS		316 SS		316 SS		316 Stainl	ess Steel		
Port	FN	IPT	FNI	РТ	FN	РТ	Cla	mp	Clamp		NPT Fe	NPT Female						
Size 1/4"	V1-1/4	\$8.07	V2-1/4	\$12.21	V3-1/4	\$20.17					VNO1-1/4	\$18.67						
3/8"	V1-3/8	\$8.43	V2-3/8	\$14.13	V3-3/8	\$20.17					VNO1-3/8	\$18.67						
1/2"	V1-1/2	\$8.43	V2-1/2	\$14.13	V3-1/2	\$20.17					VNO1-1/2	\$22.20						
3/4"	V1-3/4	\$12.27	V2-3/4	\$20.57	V3-3/4	\$29.03					VNO1-3/4	\$31.53						
1"	V1-1	15.83	V2-1	\$28.67	V3-1	\$37.13	V3C-1	\$40.83	VBS01- 1	\$67.39	VNO1-1	\$41.80						
1 1/4"	V1-1 1/4	25.87	V2-1 1/4	\$42.37	V3-1 1/4	\$56.17												
11/2"	V1-1 1/2	\$31.67	V2-1 1/2	\$60.53	V3-1 1/2	\$70.53	V3C-1 1/2	\$79.20	VBS01- 1 1/2	\$85.32								
2"	V1-2	40.23	V2-2	\$73.70	V3-2	\$100.90	V3C -2	\$111.00	VBS01- 2	\$107.59								
3"							V3C –3	\$327.17										
	_		1	à.		-												

Miniature Ball Valves Miniature Ball Valves Full Port ROTARY PNEUMATIC VALVE ACTUATORS Single Acting Double Acting Note T400 T400FM T101L Rotation Model Suitable for Ball Valve Size Chrome-Plated Brass Bore (mm) 90 Degree 180 Degree Chrome-Plated Brass Model 180 Degree 90 Degree Material Brass F NPT F x M NPT F NPT \$149.36 \$195.52 \$114.00 \$160.00 1" Port 45 Size 1/4" T400-1/4 \$2.15 T400FM-1/4 \$2.15 T101L-1/4 \$2.72 63 \$175.52 \$230.00 \$135.00 \$189.24 1 1/2" **KT-DA** T400-3/8 \$2.48 T400FM-3/8 \$2.48 T101-3/8 \$251.52 \$330.00 \$195.52 \$273.60 2 1/2" 3/8" 83 T400-1/2 T400FM-1/2 T101L-1/2 \$4.22 \$329.12 \$431.52 \$255.00 \$358.00 3" 1/2" \$2.90 \$2.90 105 3/4" T101L-3/4 \$6.33 125 \$520.00 \$681.60 \$387.00 \$542.52 4" 1" T101L-1 \$10.46 11/2" T101L-1 1/2 \$21.89 2" T101L-2 \$36.14



STC Valve Technical Data







	MODEL: 2S & 2W Series (MM)													
		А	В	С	D	E	F							
2S160-3/8	2W160-3/8	101.5	57	117	69	50	36							
2S160-1/2	2W160-1/2	101.5	57	117	69	50	36							
2S200-3/4	2W200-3/4	107.0	57	124	73	50	36							
2S250-1	2W250-1	111.5	74	135	99	50	36							
2S350-1 1/4	2W350-1 1/4	142.0	95	172	123	70.5	56							
2S400-1 1/2	2W400-1 1/2	142.0	95	172	123	70.5	56							
2S500-2	2W500-2	172.0	123	209	168	70.5	56							



MODEL: VX Series (MM)														
	Port (NPT)	А	В	С										
VX2120-1/8	1/8	25	40	64										
VX2120-1/4	1/4	25	40	64										
VX2120-3/8	3/8	48	68	110										
VX2120-1/2	1/2	48	68	110										



MODEL: 2L Series (MM)																
	А	В	С	D	K											
2L170-3/8	125	42	146	82	3/8											
2L170-1/2	125	42	146	82	1/2											
2L170-3/4	125	42	146	82	3/4											
2L200-1	136	52	162	91	1											
2L300-1 1/4	148	74	185	111	1 1/4											
2L300-1 1/2	148	74	185	111	1 1/2											
2L500-2	176	86	223	163	2											



STC Valve Technical Data

		Model: V1 SPECIFICATIONS											MAIN PARTS AND MATERIALS			
		e Piece Reduced Port 316 Stainless Steel Ball Valve											NO	PART NAME	MATERIAL	QTY
on STC 2	One	Piece Reduced Port 316 Stainless Steel Ball Valve											1	SEAT	PTFE	2
-00	Movie		oratio	a Drocou	ro: 100		@ 100		00*				2	BALL	SS316	1
	Waxii	num O	crauf	9110556		7 010	w 100		33				3	JOINT GASKET	PTFE	1
	Oper	ating Te	empera	ature Rar	ige: -60	to 450	°F*						4	CAP	SS316	1
	End (Connec	tions: I	NPT Thre	aded w	ith Pad	locking	a devid	ce				5	BODY	SS316/ CF8M	1
								(6	STEM	SS316	1
••	SI	ZE	(1	L		H	(mm)	W		Wt ('ka)	7	THRUST WASHER	PTFE	1
	1/	4"	Ę	5	39		35		64		0.0)7	8	STEM PACKING	PTFE	1
н	3/	8"	7 44 37 70 0.1									9	GLAND NUT	SS304	1	
	1/	2"	9.	2	56.5		43.5		90		0.1	6	10	STEM WASHER	SS304	1
	3/	4" "	12	5 5	58 70		47 50		103	;	0.2	25 13	11	STEM NUT	SS304	1
	1 1	/4"	2	0	78		57		103	;	0.	7	12			1
•	11	/2"	24	.5	83		69		127	•	0.8	33	12	HANDLE COVER	PLASTIC	-
	2	2"	3	2	100		74.5		127	,	1.	5	13	HANDLE	SS304	1
				N	lodel: \	2 SPE	CIFIC	ATIO	NS					MAIN PARTS AND	MATERIALS	
and STC	Two	Piece	Full P	ort 316 S	tainless	Steel E	Ball Va	lve					NO	PART NAME	MATERIAL	QTY
													1	SEAT	PTFE	2
	Max	kimum (Operat	ing Pres	sure: 1/4 2 ^	" to 2" 1/2" to 3	1000 F 3" 800	PSIG (PSIG	@ 100 ⁰ @ 100	PF WO	G*)G*		2	BALL	SS316	1
					-					/			3	JOINT GASKET	PTFE	1
	Ten	nperatu	re Ra	nge: -60	to 450°F	*							4	CAP	SS316	1
	Enc	l Conne	ctions		readed	with Pa	dlocki	na & r	nanel m	nount c	levice		5	BODY	SS316/ CF8M	1
			Clions		reaucu	with the		ng a p	Janei II				6	STEM	SS316	1
W					DI	MENSI	ONS (mm)					7	THRUST WASHER	PTFE	1
	SIZE	1/4"	3/8	1/2"	3/4"	1"	1 1/4	" 1 1 <i>/</i>	/2" 2	2" 2	1/2"	3"	8	STEM PACKING	PTFE	1
	d	11.6	12.7	7 15	20	25.4	32	38	8 50	0.8	65	76	9	GLAND NUT	SS304	1
		55	55	62.5	75	00	102	1.1	0 1	24	107	102	10	STEM WASHER	SS304	1
d,	L	55	55	63.5	/5	88	103	11	0 1.	24	167	192	11	STEM NUT	SS304	1
	н	48	48	50	57	69	73	83	3 9	92	136	149	12	HANDLE COVER	PLASTIC	1
	w	103	103	103	125	145	145	19	0 1	90 2	250	250	13	HANDLE	SS304	1
			-	Mo	del: V3	SPEC	FICAT						-	MAIN PARTS AND	MATERIALS	
	Maxi	mum O	oeratir	In Press	ire: 1/2"	to 2" 1	000 P	SI @ 1	100°F \	NOG*			NO	PART NAME	MATERIAL	QTY
				0	2 1/	2" to 3"	800 P	si @	100°F	WOG*	•		1	SEAT	PTFE	2
	Tem	perature	Ran	ge: -60 to	450°F*								2	BALL	SS316	1
	Full F	Port											3	JOINT GASKET	PTFE	1
	End	Connec	tions:	FNPT									4	CAP	SS316	1
	Mour	nting Op	tions:	Padlocki	ng devi	ce and	actuate	or mou	unting	bracke	ŧ		5	BODY, BODY CONNECTOR	SS316/ CF8M	1, 2
					DIM		NS (mi	m)					6	STEM	SS316	1
		SIZE 1/4" 3/8" 1/2" 3/4" 1" 11/4" 11/2" 2" 21/2" 3" 4"										7	THRUST WASHER	PTFE	1	
W	d	d mm 12.5 12.5 15 20 25 30 38 50 64 80 98 in 0.49 0.49 0.59 0.79 0.98 1.18 1.5 1.97 2.52 3.15 3.86								8	STEM PACKING	PTFE	1			
										9	GLAND NUT	SS304	1			
	н	mm	57	57 68	3 70	80	84	93	100	142	155	172	10	STEM WASHER	SS304	1
		in	2.24	2.24 2.6	8 2.76	3.15	3.31	3.66	3.94	5.59	6.1	6.77	11	STEM NUT	SS304	1
	W	mm 96 96 124 142 142 202 202 250 250 300								12	HANDLE COVER	PLASTIC	1			
		in	3.78	3.78 4.8	8 4.88	5.99	5.99	7.95	7.95	9.84	9.84	11.81	13	HANDLE	SS304	1
-	L	mm	68	68 72	83	90	112	120	147	174	193	216	14	BOLT	SS304	4
· L		in	2.56	2.56 2.8	4 3.35	3.62	4.33	4.48	5.59	6.85	7.6	8.5	15	BODY CONNECTOR NUT & WASHER	SS304	4

* Refer to Maximum Operating Pressure -Temperature Data on Page 8 for more information



STC Valve Technical Data



• W





Model: VBS01 SPECIFICATIONS					MAIN PARTS AND MATERIALS											
Size: 1/2" to 4"																
Full Port						NO		PART NAME		MA	TERIAL					
Connection Options: Butt weld, Clamp, or Male Thread, Female Ends (RJT, IDF, DIN, SMS).																
Operating Pressure: -13 PSIG to 150 PSIG WOG*					1		BODY		SS316 or SS316L							
Temperature Range: -10°C to 150°C with Silicone, or Viton*																
Disc H	ead Size	e: 9.4 r	nm (to fit	actuator)					2		STEM WASHER		SS304			
Operator Options: Lever, Actuators										00004						
Body Material Options: 316SS, or 316L SS						3		STEMINUT		55304						
Handle: 304 SS/Plastic						4				304 SS/Plastic						
Seat C	ptions :	Silicon	e, EPDM	or Viton							TIANDEL		304 33/F lastic			
•			DIME	NSIONS	(mm)		D		5		GASKET		Silicone	, EPDM, or		
A	B	Id I	Clamp	Boyol	C		D	E						liton		
1"	47 6	33	88.9	122 24	100		74	39	6	BODY CONNECTOR BOLT		s	\$\$304			
1 1/2"	47.6	63	88.9	134.94	110		47	39	-		DODITOONNEOTOR B		00004			
2"	52.3	39	95.25	163.51	110		83.5	49.5	7	BODY CONNECTOR NUT		- BODY CONNECTOR NUT &		NUT &	55204	
2 1/2"	53.9	98	96.84	174.63	110		93	58.5			WASHER		3	3304		
3"	61.9	91 [·]	104.78	196.26	159		98	66	8		BUTTERELY		SS31	6/553161		
4"	79.3	38 ⁻	122.24	228.6	159		118	84.5	Ŭ		BUTTERFLY 55316/55316			5/00010E		
Sanita	rv Stair	Mo See	del: V3C	Valve: T	FICATI		are mar	le with		N	MAIN PARTS AND MATERIALS					
precis	ion mac	hined	Teflon s	eat for us	se in Sa	anitary	applica	itions.	NO PART NAME		PART NAME	AME MATERIAL		QTY		
They and e	They are three piece design and have four bolts that permit quick					1		SEAT PTFE		FE	2					
line connections.					c pipe	2		BALL SS316		316	1					
Maxim 2 1/2"	um Ope to 4" 80	rating)0 PSI	Pressure: @ 100°	1/2" to 2" F WOG*	1000 F	°SI@	100°F W	OG*	3	JC	JOINT GASKET PTFE		FE	1		
Temp	erature	Rang	e: -60 to	450°F*					4	CAP SS31		316	1			
Full P	ort		Nama Fa	d					5	BODY, SS316		316/	1.2			
Mount	ing Opt	ions: F	Padlockir	ng device	and a	ctuato	r mount	ing	6	BOL	STEM	CF SS	-8M 316	1		
bracke	et					1 m)			7	THE	UST WASHER	P	FF	1		
SIZE	PORT					T1	T2	w	8	ST		P1	FE	1		
1/2"	(d) 9.6	75	25	20.24	64		3.63	125	Q			22	304	1		
3/4"	15.9	90	25	20.24	67		3.63	125	10	ст.		00	204	1		
1"	22.2	100	50.4	43.6	83	2.85	4.75	140	10	31			004	1		
1 1/4"	28.5	110	50.4	43.6	89	2.85	4.75	140	11			55	304	1		
1 1/2" 2"	34.9 47.5	125	63.9	43.6	100	2.85		200	12	HANDLE COVER		PLA	STIC	1		
2 1/2"	60.2	190	77.4	70.6	150	2.85		250	13	HANDLE		55	304	1		
3"	72.9	220	90	83.3	161	2.85		250	14	COL		SS	304	4		
4"	97.4	270	118.9	110.3	180	2.85		250	15	00.	WASHER	SS	304	4		
End C	Model: VN01 SPECIFICATIONS							N	IAIN PARTS AND	MATE	RIALS					
DIN 2999 & BS21: ISO 228/1 & ISO 7/1					N	0	PART NAM	E	MA	TERIAL						
Max. Operating Pressure: 6000 PSIG @ 100 °F*						1	1 SET SCREW S		S304							
Operating Temperature Range: -60 to 450°F*						2		HANDLE		S	S410					
Fire safe design						3	3	STEM	_	S	S316					
SIZE	1/5	2"	1/4"	3/8"	(mm)		3/4"	1"	4		GLAND NU	I	S	\$304		
A	75	5	75	75	87		90	103	5)	GLAND		S	\$304		
В	25	5	25	25	30		32.5	40	6	5	PACKING		TE	FLON		
С	50)	50	50	60		65	80	7		BONNET		SS3	16/CF8M		
Cv	0.4	3	0.43	0.74	1.30	6	2.64	3.6	8	3	BODY		SS3	16/CF8M		

Valve Specifications						
Valve Type	T400 T400FM		T101L			
Operating Pressure	200-800 PS	800 PSI @ 90 °F				
Operating Temperature	-5 TO 80 Deg. C					
Body Materials	Chrome Plated Brass		Brass			
Seal Materials	PTFE					
Service	Air, Liquid					

Solenoid & Process Valves



STC Process Valves Installation and Operation Procedures

This Installation and Operation Procedures apply to the solenoid valves shown below.

Valve Type	Stainless Steel	Brass		
Direct Acting Normally Closed Action: Plunger Type	2S025-2S040 SERIES	2W025-2W040 SERIES		
Direct Acting/Lift Normally Closed Action: Diaphragm Type	2S160-2S500 SERIES	2W160-2W500 SERIES		
Direct Acting/Lift Normally Open Action: Diaphragm Type	2SO160-2SO500 SERIES	2WO160-2WO500 SERIES		
Direct Acting/Lift Normally Closed Action: Plunger Type	2LS170-2LS500 SERIES	2L170-2L500 SERIES		



Electrical Connection of Solenoid Coils

To connect Grommet coil:

- 1. For DC Coil, connect the RED wire to Positive, and the BLACK wire to Negative.
- 2. For AC Coil, connect the BLACK wire to HOT wire, and the WHITE wire to Neutral wire.
- 3. Tighten the screw that secures the coil to the valve. If the screw nut if plastic, hand tighten only. If the screw nut is metal, hand tighten, and tighten 1/4 to 1/2 with a wrench. Do not over-tighten, it may damage the valve!

To connect DIN coil (refer to diagram shown below for more detail):

- 1. Remove the Philip screw from the plastic DIN housing and unplug it from the DIN coil and remove the gasket.
- 2. From the screw opening, use the screw to push the Terminal Block out of the plastic DIN housing.
- 3. Note the 1, 2 and ground markings on underside of Terminal Block.
- 4. For DC DIN Coil, Connect 1 to Positive, 2 to Negative.
- 5. For AC DIN Coil, connect 1 to HOT wire, 2 to Neutral wire, and if required, connect ground to ground wire.
- 6. Thread the wires through and out off the strain-relief opening of the plastic DIN housing, and re-inert the Terminal Block into the plastic DIN house in the desire orientation.
- 7. Re-install the gasket onto the DIN coil, plug the wired DIN enclosure into the DIN coil, and reinstall the Philip screw.
- 8. Tighten the screw that secure the coil to the valve. If the screw if plastic, hand tighten only. If the screw is metal, hand tighten, and tighten 1/4 to 1/2 with a wrench. Do not over-tighten!



Installation of Solenoid Valves

Connection of Pipe to Solenoid Valve:

- 1. Follow the arrow mark on the solenoid valve for installation of inlet and outlet, for valve that can be used for vacuum applications and is to be connected for vacuum applications, reverse the direction inlet and outlet installation.
- 2. Apply the appropriate sealant to the pipe thread, screw the pipe into the solenoid valve, tighten the pipe by hand, then turn it 2 to 3 turns with a pipe-wrench until it reaches the desire torque listed.
- 3. For the 2L series valves, the coil/armature tube must be installed **vertically** and with flow in the **horizontal** direction.
- 4. The coil generate heat, install the solenoid valve in a well ventilated location and away from flammable materials.
- 5. Provide the solenoid valve with secure mechanical support through the piping structure.
- 6. Make sure the valve is installed properly and make sure there is no leak in all the connections.
- 7. Test the solenoid valve to make sure it operates properly before putting the solenoid valve into service.

Recommendation of Torque for Tightening Pipes					
Fitting Thread Size	Torque, Ib-ft	Torque, kgf/cm			
10-32, M5 –M6	1.0 -1.5	14 –21			
NPT 1/8, R 1/8	5 -6.5	70 -90			
NPT 1/4, R 1/4	8.5 -10	120 -140			
NPT 3/8, R 3/8	16 -17.5	220 -240			
NPT 1/2, R 1/2	20 -21.5	280 -300			
NPT 3/4, R 3/4					
NPT 1, R 1	Depends on user's requirements and applications				
NPT 1 1/4, R 1 1/4					
NPT 1 1/2, R 1 1/2					
NPT 2, R 2					

Operation and Maintenance of Solenoid Valves

Operation:

- 1. Follow the current industrial safety standards when using the solenoid valve in pressurized air, gas or liquid, and when high electrical voltage is used to operate the solenoid valve.
- 2. Make sure the materials to be used are compatible with the solenoid valve.
- 3. Do not exceed the operation limits of the solenoid valve.
- 4. The coil generates heat, to prevent the coil from overheating, keep the solenoid valve well ventilated and away from flammable materials.
- 5. The opening or closing of solenoid valve is controlled by the electrical power supplied to the solenoid valve.

Maintenance:

- 1. Keep the valve clean, and inspect for leak after installation and on a regular interval.
- 2. If it is a diaphragm valve, the diaphragm needs to be replace on a regular interval depending on the usage and the usage conditions.

Maintenance Spare Parts:

- 1. Solenoid Coil
- 2. Diaphragm for diaphragm valve
- 3. Plunger and Plunger Spring
- 4. O-ring

Safety Precautions:

- 1. Follow the current industrial safety standards when using the solenoid valves in pressurized air, gas or liquid, and when high electrical voltage is used to operate the solenoid valves.
- 2. Make sure the materials to be used are compatible with the solenoid valve.
- 3. Do not exceed the operation limits of the solenoid valves.
- 4. The coils generates heat, install the solenoid valves in well ventilated locations and away from flammable materials.

Terms and Conditions

SHIPMENTS:

All shipments are F.O.B. 892 Commercial Street, Palo Alto, CA 94303, USA. Most orders are shipped via UPS Standard Ground unless instructions accompany order. Outside the UPS zones, shipment will be made Best Way. The responsibility for goods delay, lost or damaged in transit rests with the carrier and purchaser. Purchaser may purchase shipping insurance to cover and lost or damage caused by shipping.

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Sizto Tech Corporation 892 Commercial Street Palo Alto, CA 94303 USA TEL: 650-856 8833, FAX: 650-856 8811 Email: Sales@StcValve.com; www.StcValve.com