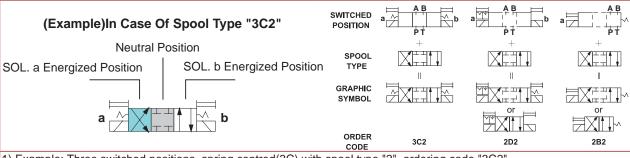


## SOLENOID OPERATED DIRECTIONAL CONTROL VALVES

# [GRAPHICAL SYMBOLS]



- 1) Example: Three switched positions, spring centred(3C) with spool type "2", ordering code "3C2".
- 2) Example: Two switched positons, no spring, with detent(2D) and spool type "2", ordering code "2D2".
- 3) Example: Two switched positions, spring offset(2B) with spool type "2" (reverse assembled), ordering code "2B2(L)".
- 4) The dotted line of graphical symbol(2B, 2D, 2N) represent the momentary switched position.

Three Switched Position	Graphical Symbol	Two Switched Position	Graphical Symbol	Two Switched Position	Graphical Symbol	Two Switched Position	Graphical Symbol
Spring Centred  Model No: "3C"+ Spool Type	a AB b	No Spring  Model No: "2N"+ Spool Type	a AB b	Spring Offset  Model No: "2B"+ Spool Type	a PT	No Spring-With Detent  Model No: "2D"+ Spool Type	a AB b

Spool Type	Graphical Symbol	Physical Relationship (Neutral Position)	Spool SWG-02	Spool SWG-03	Remark
"2"		TAPBT	ST.	ST.	Holds pump pressure and cylinder position at neutral. Care should be paid if used as a 2-position type because shock occurs when each port is blocked in transit.
"3"		TAPBI	The same	The	Pump can be unloaded and actuator is floating at neutral. If a 2-position type is used, shock is reduced as each port is releases to tank in transit.
"4"		TAPBT	The same	The same	Pump pressure is held and actuator is floated at neutral. 2-position type is used when system pressure is required to be held in transit. Shock during transit is less compared to spool type "2".
"40"		TAPBT	TOO	753	In a variation of spool type "4", a restrictor is provided in A-T and B-T ports. Making it faster at stopping the actuator.
"5"		TAPBT	B	The same of the sa	It can be used when a pump is unloading at neutral and actuator is halted at one way flow.
"60"		TAPBT	The state of the s		Pump is unloading and actuator postion held at neutral. Suitable for series operation. Shock is reduced as each port is released to tank on transit.
"7"		TAPBT	TOTOS	7550	Mainly used as a 2-position type. Shock is reduced on transit.
"8"		TAPBI	The same	The	Pump pressure and cylinder position is held at neutral in the same way as spool type "2". It is used as 2 way type.
"85"		TAPBT	The same of the sa	100	
"9"		TAPBT	The same of the sa	The same	Regenerative circuit is provided at neutral.
"10"		TAPBT	The same	ST.	Prevent actuator from one direction drift by leakage of P port at neutral.
"11"		TAPBT	ST. ST.	ST.	Half actuator movement positively at B. T ports blocked P.A port connected at neutral.
"12"		TAPBT	STONE STONE	The	Prevent actuator from one direction drift by leakage of P port at neutral.

## SOLENOID OPERATED DIRECTIONAL CONTROL VALVES

# [GRAPHICAL SYMBOLS]

Model No. Explanation Standard Mtg. of Solenoid 型號說明 sol. a (APB Reverse Mtg. of Solenoid MODEL CODE "2B2L" (APB)

2B2A

- Example: Two switched positions, spring offset(2B) with spool type "2B", ordering code "2B2B".
   Example: Two switched positions, spring offset(2B) with spool type "2A", reverse assembled, ordering code "2B2AL".

3) Valves Only Using Neutral Position and Side Positions.													
			Graph	ical Symb	ol					Graph	ical Sym	bol	
Two Switched Position Spring Offset		Standard Assembled		Mo	Assembled del No:	3D Pictures	Two Switch Position Spring Of	n	Stan Asser		M	e Assembled odel No: I Type + "L"	3D
Model N "2B"+ Spoo		a	A B	A B		Fictures	Model N "2B"+ Spoo		a	A B	φ.	В	Pictures
Spool Type	Gr	aphica	l Sym	bols	3D Pi SWG-02	ctures SWG-03	Spool Type	Spool Graphica		al Symbols		3D Pi	ctures SWG-03
2A			X		500	The same	2B	X			<b>†</b> ↓		1011000
3A	В	<b> </b>	X		The Table	TOTA	3B	X		H	<b> </b>		
4A	Б	1	$\boxtimes$		D.	1	4B	X		Н	<b>1</b>		
40A	DO(		X		TO CO	AL SO	40B	X		DC)C	<b>†</b>		
5A	Б		1	,	200		5B	1	Н	E	X		
60A			Ť,		200		60B	1		As The San Spool Ty			
7A	K	<b> </b>	X		1000 C	STONE OF THE PARTY.	7B	X				"12".	
8A	TI	<u></u>	Z	T T	ST ST	E ST	8B	Ţ.	T T				
9A	E	. ↑↓	X	H	The same	ST.	9B	X		E	Î		
10A	<u></u>	1	X	T T	The	The sales	10B	X	T I	<u></u>	<b>†</b> ↓		
11A	Ľ		X		The same	De la company de	11B	X		Ţ	<b>†</b> ↓		
12A	Ţ		$\boxtimes$		The Day	ST.	12B	X	T		<b>†</b>		



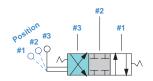
Two Switched

Graphical

## MANUAL OPERATED DIRECTIONAL CONTROL VALVES

# [GRAPHICAL SYMBOLS]

# (Example): In Case Of Spool Type"3C2" 範例: 芯軸型式' 3C2'



- 1) Example: Three switched position(3C) with spool type "2", ordering code "3C2".
- 2) Example: Two switched positon(2B) with spool type "2", ordering code "2B2".
- 3) Example: Three switched position(3D) with spool type "2", ordering code "3D2".
- 4) The dotted line of graphical symbol(2B, 2D) represent the momentary switched position. Three Switched Graphical Three Switched Graphical Two Switched Graphical

Pos	Position Symbol		ol	Position	Sy	mbol F		osition	Symbol	Position	Symbol		
Mode	Model No: Model No:		No Spring-With Detent  Model No:  "3D"+ Spool Type		Spring Offset  Model No:  "2B"+ Spool Type		AB PT	No Spring-With Detent  Model No: "2D"+ Spool Type	A B T				
Spool Type	Grap Syr	ohical mbol	Ph (	ysical Relations Neutral Positior	ship n)	Spo 02	ool 2	Spool 03	F	Funtions and Applications			
"2"				TAPBIT		Z	2	B	should be	np pressure and cylinder po paid if used as a 2-position en each port is blocked in t	type because shock		
"3"				TAPBT		1	20	The state of the s	a 2-position	be unloaded and actuator in type is used, shock is rec tank in transit.			
"4"				TAPBT		Z	2	B	2-position	ssure is held and actuator is type is used when system transit. Shock during transi "2".	pressure is required to		
"40"				TAPBT		K	25	53		In a variation of spool type "4", a restrictor is provided and B-T ports. Making it faster at stopping the actuato			
"5"				TAPBT		2	2	B		It can be used when a pump is unloading at neutral an actuator is halted at one way flow.			
"60"	TIHE			TIAIPIBIT		Q	2	P	Suitable for	Pump is unloading and actuator postion held at neutral. Suitable for series operation. Shock is reduced as each port is released to tank on transit.			
"7"		×  <b>†</b>		TAPBIT		TO	3	ß	Mainly use transit.	Mainly used as a 2-position type. Shock is reduced on transit.			
"8"				TAPBIT		2	2	B		Pump pressure and cylinder position is held at neutral the same way as spool type "2". It is used as 2 way type "2".			
"85"				TAPBIT		1	2	B	5				
"9"				TAPBT		R	2	15 Ta	Regenera	Regenerative circuit is provided at neutral.			
"10"				TAPBT		1	2	1 To		Prevent actuator from one direction drift by leakage port at neutral.			
"11"				TAPBT		13	B	15th		Half actuator movement positively at B. T ports blocked port connected at neutral.			
"12"				TAPBI		K	2	1 To	Prevent a port at ne	ctuator from one direction d	rift by leakage of P		

[SWG-VH]



#### SOLENOID OPERATED DIRECTIONAL CONTROL VALVES [72MPa]

#### **\*SPECIFICATION**

MODEL	MAX. OPER. PRES. Kgf/cm²/(MPa)	ALLOWABLE BACK PRES. Kgf/cm²/(MPa)	RATED FLOW (ℓ/min)	WEIGHT (Kg)
SWG-VH	720(72)	140(14)	12	2.4

#### **\*\*GRAPHIC SYMBOL**

3C2	3C3	3C4	3C6	3C60	
	AXIHIT.R	ZITIK.			

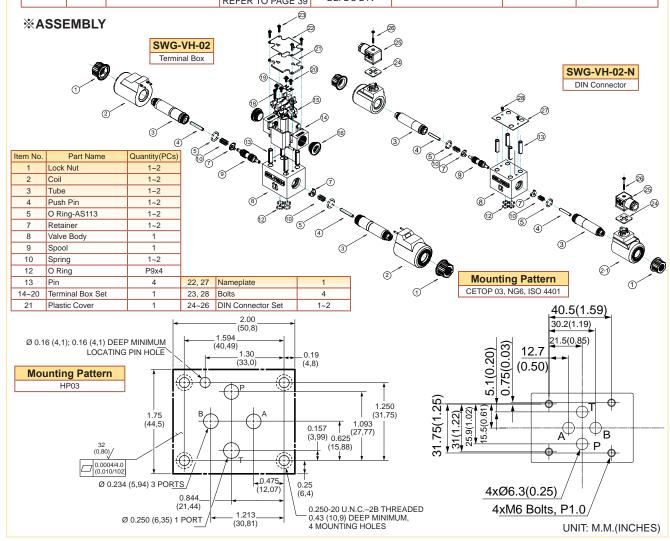
Refer to Page 5&6. For more spool type, please contact SOLTECH

\*Note: 3C6 is only available for HP03 Pattern

\*\*Note: 3C60 is achieved by "SWG-VH-3C3" + "MPC-VH-W"

#### **\*\*MODEL NUMBER DESIGNATION**

SWG-	VH-	(PA)-	3C2-	D2-	(N)-	(HP03)-	(90)
SERIES	HIGH	ACTUATION TYPES: OMIT: SOLENOID OPERATION PA: PNEUMATIC ACTUATION	SPOOL TYPE: REFER TO PAGE 5&6	VOLTAGE R1: AC 110V/50HZ AC 110V/60HZ R2:	CONNECTOR TYPE OMIT: TERMINAL BOX N: PLUG-IN	MOUNTING INTERFACE OMIT: CETOP 03, NG6,	DESIGN NO. OMIT: DIN 912 BOLTS 90:
NO.	PRES	ML: MANUAL LEVER	2B*/3C*: SPRING RETURN 2D*/3D*: WITH DETENT	AC 240V/50HZ AC 220V/50HZ AC 220V/60HZ D1: DC 12V D2: DC 24V	CONNECTOR DIN 43650 ISO 4400	ISO 4401	UNC BOLTS (NORTH AMERICA STANDARD)





## SOLENOID OPERATED DIRECTIONAL CONTROL VALVES [72MPa]

