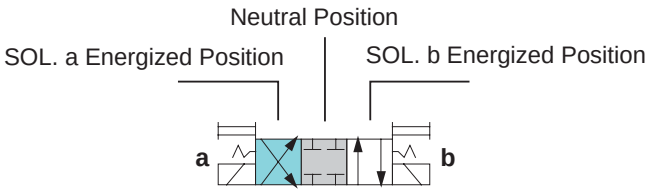
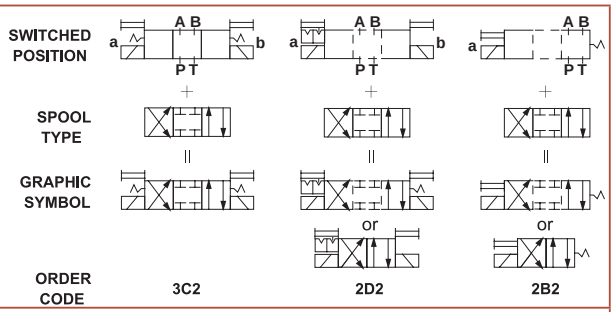
A

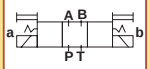
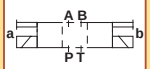
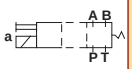
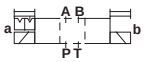
【GRAPHICAL SYMBOLS】

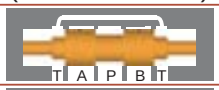
(Example)In Case Of Spool Type "3C2"





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.

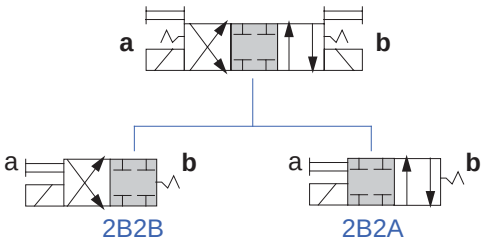
Three Switched Position	Graphical Symbol	Two Switched Position	Graphical Symbol	Two Switched Position	Graphical Symbol	Two Switched Position	Graphical Symbol
Spring Centred Model No: "3C"+ Spool Type		No Spring Model No: "2N"+ Spool Type		Spring Offset Model No: "2B"+ Spool Type		No Spring-With Detent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

Spool Type	Graphical Symbol	Physical Relationship (Neutral Position)	Spool SWG-02	Spool SWG-03	Remark
"2"					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"					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"					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"					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"					It can be used when a pump is unloading at neutral and actuator is halted at one way flow.
"60"					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"					Mainly used as a 2-position type. Shock is reduced on transit.
"8"					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"					
"9"					Regenerative circuit is provided at neutral.
"10"					Prevent actuator from one direction drift by leakage of P port at neutral.
"11"					Half actuator movement positively at B. T ports blocked P.A port connected at neutral.
"12"					Prevent actuator from one direction drift by leakage of P port at neutral.

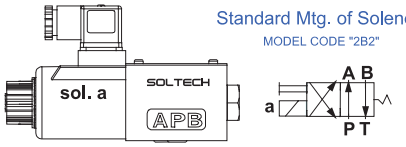
A

【GRAPHICAL SYMBOLS】

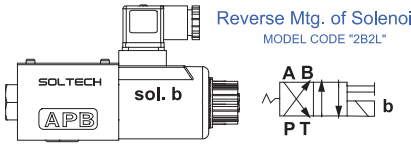
Model No. Explanation
型號說明



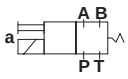
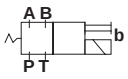
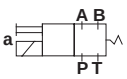
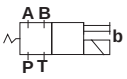
Standard Mtg. of Solenoid
MODEL CODE "2B2"



Reverse Mtg. of Solenoid
MODEL CODE "2B2L"



1) Example: Two switched positions, spring offset(2B) with spool type "2B" , ordering code "2B2B".
2) 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.

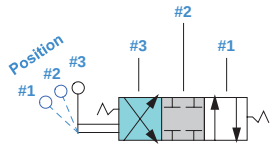
Two Switched Position Spring Offset Model No: "2B"+ Spool Type	Graphical Symbol Standard Assembled	Graphical Symbol Reverse Assembled Model No: Spool Type + "L"	3D Pictures	Two Switched Position Spring Offset Model No: "2B"+ Spool Type	Graphical Symbol Standard Assembled	Graphical Symbol Reverse Assembled Model No: Spool Type + "L"	3D Pictures
							

Spool Type	Graphical Symbols		3D Pictures SWG-02	3D Pictures SWG-03	Spool Type	Graphical Symbols		3D Pictures SWG-02	3D Pictures SWG-03
2A					2B				
3A					3B				
4A					4B				
40A					40B				
5A					5B				
60A					60B			As The Same As Spool Type "2"~"12".	
7A					7B				
8A					8B				
9A					9B				
10A					10B				
11A					11B				
12A					12B				

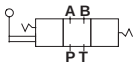
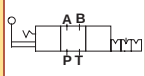
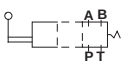
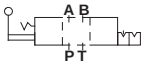
A

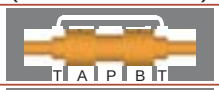
【GRAPHICAL SYMBOLS】

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

Spool Type	Graphical Symbol	Physical Relationship (Neutral Position)	Spool 02	Spool 03	Funtions and Applications
"2"					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"					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"					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"					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"					It can be used when a pump is unloading at neutral and actuator is halted at one way flow.
"60"					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"					Mainly used as a 2-position type. Shock is reduced on transit.
"8"					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"					
"9"					Regenerative circuit is provided at neutral.
"10"					Prevent actuator from one direction drift by leakage of P port at neutral.
"11"					Half actuator movement positively at B. T ports blocked P.A port connected at neutral.
"12"					Prevent actuator from one direction drift by leakage of P port at neutral.

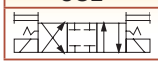
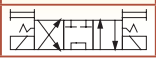
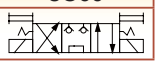
A

【SWG-VH】

※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
				

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"

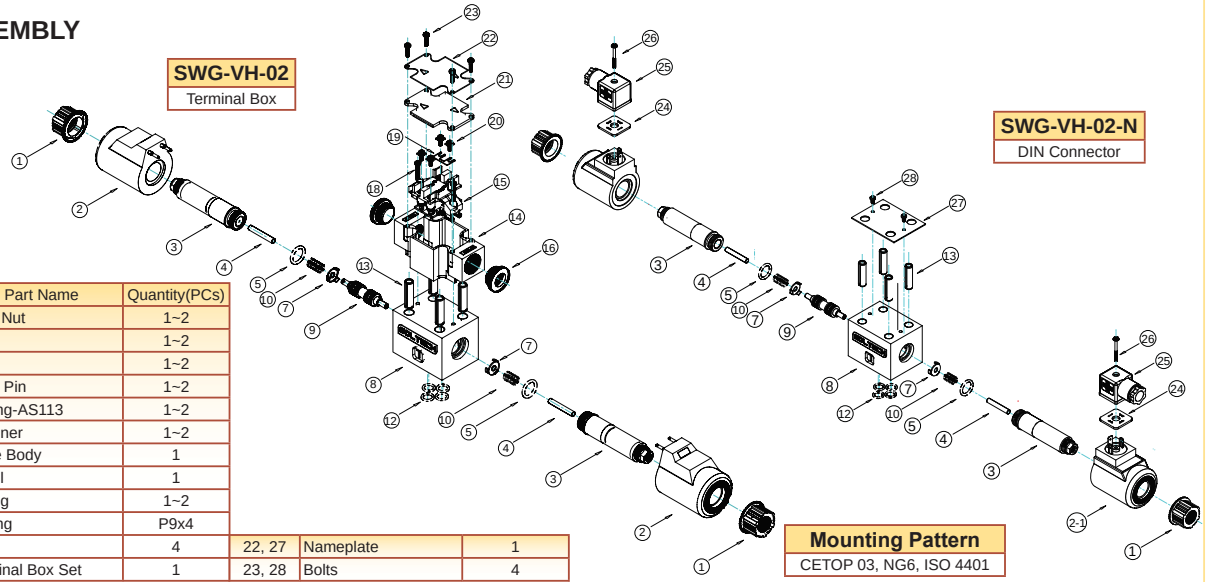
※MODEL NUMBER DESIGNATION

SWG-	VH-	(PA)-	3C2-	D2-	(N)-	(HP03)-	(90)
SERIES NO.	HIGH PRES. 72 MPa	ACTUATION TYPES: OMIT: SOLENOID OPERATION PA: PNEUMATIC ACTUATION	SPOOL TYPE: REFER TO PAGE 5&6	VOLTAGE R1: AC 110V/50HZ AC 110V/60HZ R2: AC 240V/50HZ AC 220V/50HZ AC 220V/60HZ D1: DC 12V D2: DC 24V	CONNECTOR TYPE OMIT: TERMINAL BOX N: PLUG-IN CONNECTOR DIN 43650 ISO 4400	MOUNTING INTERFACE OMIT: CETOP 03, NG6, ISO 4401 HP03: HP03 PATTERN	DESIGN NO. OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STANDARD)
		ML: MANUAL LEVER	2B*/3C*: SPRING RETURN 2D*/3D*: WITH DETENT REFER TO PAGE 39				

※ASSEMBLY

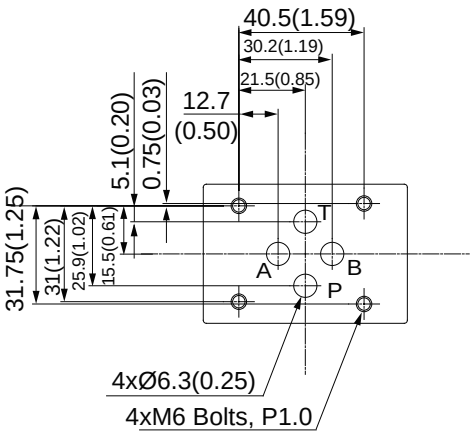
SWG-VH-02
Terminal Box

SWG-VH-02-N
DIN Connector

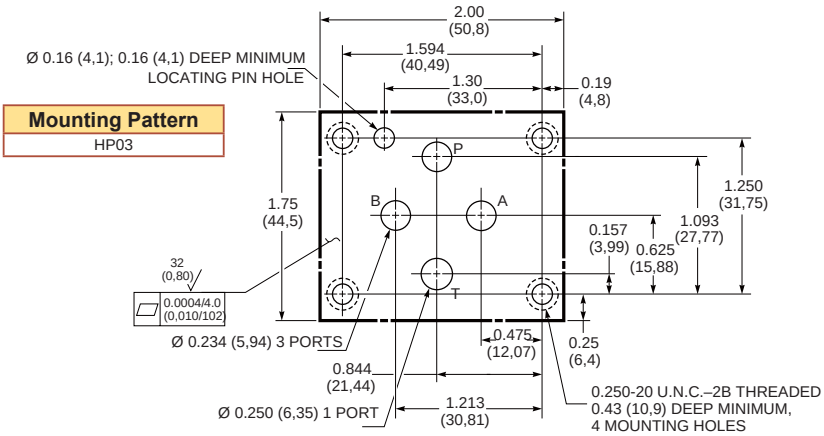


Item No.	Part Name	Quantity(PCs)
1	Lock Nut	1~2
2	Coil	1~2
3	Tube	1~2
4	Push Pin	1~2
5	O Ring-AS113	1~2
7	Retainer	1~2
8	Valve Body	1
9	Spool	1
10	Spring	1~2
12	O Ring	P9x4
13	Pin	4
14~20	Terminal Box Set	1
21	Plastic Cover	1
22, 27	Nameplate	1
23, 28	Bolts	4
24~26	DIN Connector Set	1~2

Mounting Pattern
CETOP 03, NG6, ISO 4401



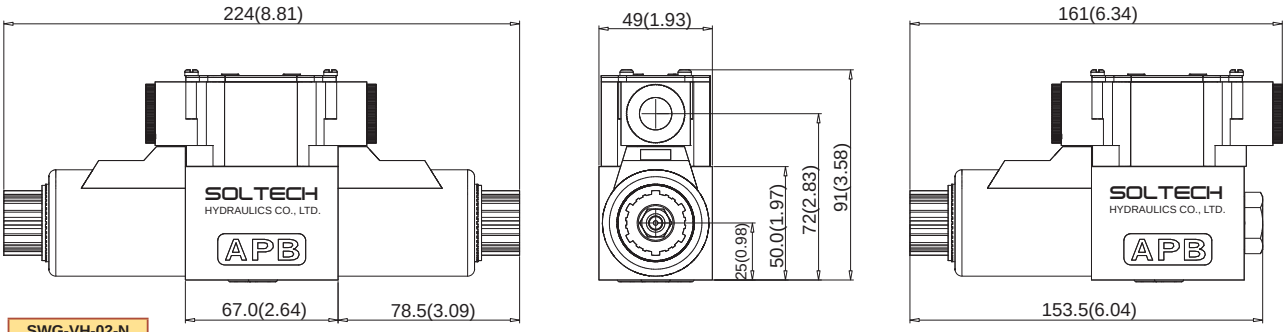
Mounting Pattern
HP03



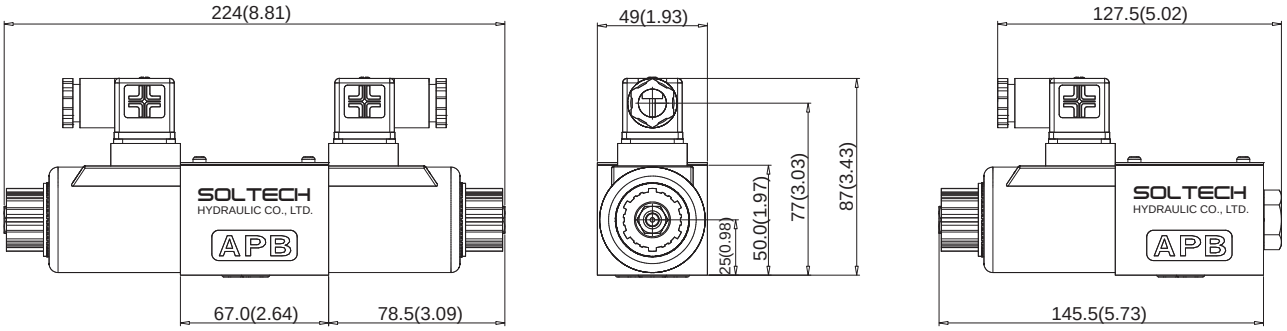
UNIT: M.M.(INCHES)

※DIMENSIONS

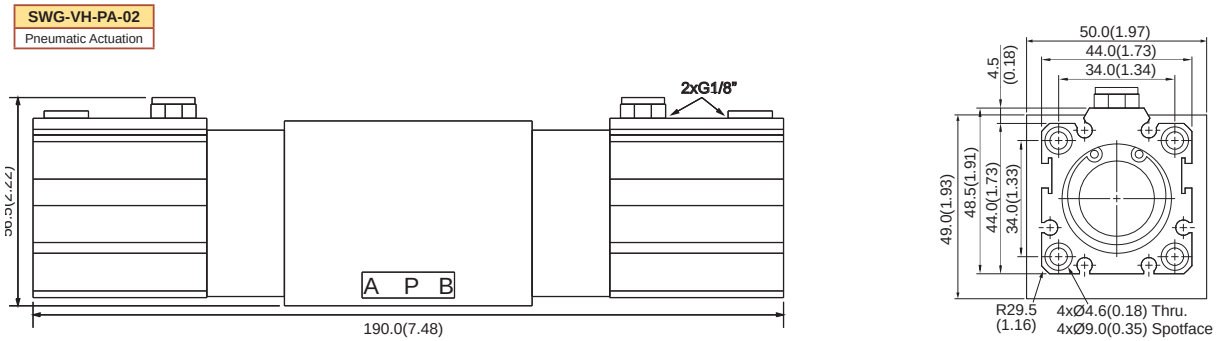
SWG-VH-02
Terminal Box Type



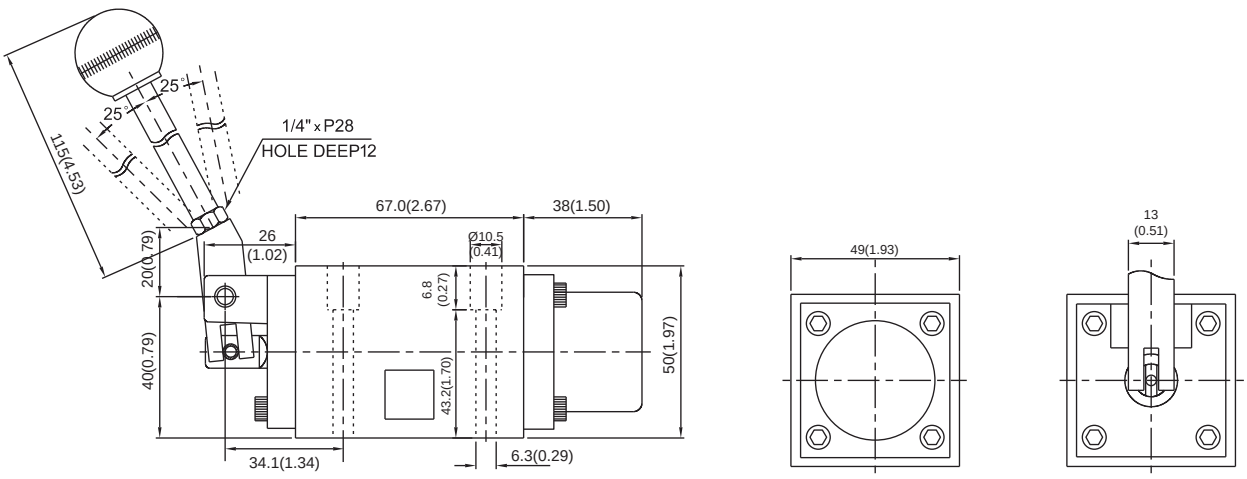
SWG-VH-02-N
DIN Connector Type



SWG-VH-PA-02
Pneumatic Actuation



SWG-VH-ML-02
Manual Lever



UNIT: M.M.(INCHES)