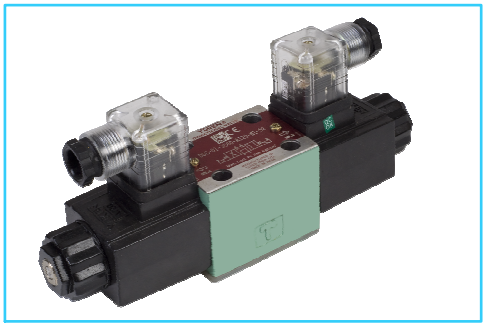
1/8 Solenoid Operated Directional Valves, DSG-01 Series

- ***WIDE RANGE OF MODELS--Choose the optimum valve to meet needs from a large selection available.***



The DSG-01 50 series solenoid operated directional valve comes with two basic models:

- **Standard type -------** Useable at high pressure, high flow [315Kgf/cm^2,63L/min.]
- **Shockless type -------** which greatly reduces noise, which is a result of spool changeover and vibration in pipes.

The optimum valve for any system can be utilized since many spool types and various solenoids are all available, along with other optional functions.

- **IP65-equivalent dust and water resistant**

On request can be customized up to IP68/69.
Consult YUKEN for more details.

Specification

Valve Type	Model Numbers	Max. Flow* L/min.	Max. Operating Pressure Kgf/cm^2	Max. T-Line Back Pressure Kgf/cm^2	Max. Changeover Frequency Cycles/min.	Mass Kg
Standard Type	DSG-01-3C※-※-50	63	315 {Spool Type 60 Only 250}	160	300 {R Type Sol. Only 120}	2.2
	DSG-01-2D2※-※-50					
	DSG-01-2B※-※-50					1.6
Shockless Type	S-DSG-01-3C※-※-50	40	160	160	120	2.2
	S-DSG-01-2B2-※-50					1.6

* Maximum flow indicates a ceiling flow. As the ceiling flow depends on the type of spool and operating condition, refer to the list of standard models & maximum flow on page 350 & 351 for details.

Sub-Plates

Sub-plate Model Numbers	Thread Size	Approx. Mass Kg.
DSGM-01-3080	1/8 BSP.F	0.8
DSGM-01X-3080	1/4 BSP.F	0.8

* Sub-plates are available. Specify the sub-plate model number from the table above. When sub-plates are not used, the mounting surface should have a good machined finish.

Mounting Bolts

Four socket head cap screws as in the table below are included.

Soc. Hd. Cap Screw	Qty.	Mounting Bolt Kit Number
M5 x 45 Lg.	4	BKDSG-01-50

Solenoid Ratings

Valve Type	Electric source	Coil Type	Frequency (Hz)	Voltage (V)		Current & Power at Rated Voltage		
				Source Rating	Serviceable Range	Inrush (A) *2	Holding (A)	Power (W)
Standard Type	*1 AC	A100	50	100	80 - 110	2.38	0.46	---
			60	100	90 - 120	2.12	0.32	
				110		2.33	0.39	
		A120	50	120	96 - 132	1.98	0.38	
			60		108 - 144	1.77	0.27	
		A200	50	200	160 - 220	1.19	0.23	
			60	200	180 - 240	1.06	0.16	
				220		1.17	0.19	
		A240	50	240	192 - 264	0.99	0.19	
			60		216 - 288	0.89	0.13	
Shockless Type	DC	D12	------	12	10.8 - 13.2	------	2.2	26
		D24		24	21.6 - 26.4		1.1	
		D48		48	43.2 - 52.8		0.54	
		D100		100	90 - 110		0.27	
		D110		110	99 - 121		0.24	
		D200		200	180 - 220		0.13	
		D220		220	198 - 242		0.12	
	AC→DC Rectified	R100	50/60	100	90 - 110	------	0.30	26
		R110		110	99 - 121		0.26	
		R200		200	180 - 220		0.14	
		R220		220	198 - 242		0.13	

*1 AC solenoid is not available in shockless type.
R type models with built-in current rectifier is recommended for shockless operation with AC power.
*2 Inrush current in the above table show rms values at maximum stroke.

Model Number Designation

F	S-	DSG	- 01	- 2	B	2	A	- A 100	-C	- N	50	- L
Special Seals	Type	Series Number	Valve Size	Number of Valve Positions	Spool - Spring Arrangement	Spool Type	Special Two Position Valve [Omit if not required]	Coil Type	Manual Override	Electrical Conduit Connection	*3 Design Number	Models with Alternate offset Solenoid [Omit if not required]
F: Special Seals for Phosphate Ester Type Fluids (Omit if not required)	**None:** Standard Type	**DSG :** Solenoid Operated Directional Valve	**01**	**3 :** Three Positions	**C :** Spring Centered	**2, 3 4,40 5,60 7, 8 9,10 11,12**	--	AC : **A 100 A 120 A 200 A 240** DC : **D 12, D 24, D 48, D 100, D 110, D 200, D 220** R : (AC→DC) **R 100, R110 R 200, R220**	**None:** Manual Override Pin **C :** Push Button and Lock Nut (Option)	**None:** *2 Terminal Box Type **N :** With Plug-in Connector (DIN) **N1 :** With Plug-in Connector with Indicator Light (Option)	**50**	--
				2 : Two Positions	**D :** No-Spring Detented	**2, 3 7,8**	**A** *1					**L**
					B : Spring Offset	**2, 3 8**	**A** *1 **B** *1					
	S: Shock-Less Type			**3 :** Three Positions	**C :** Spring Centered	**2 4, 40**	--	DC : **D 12, D 24, D 48, D 100, D 110, D 200, D 220** R : AC→DC **R 100, R110 R 200, R220**				--
				2 : Two Positions	**N:** No-Spring	**2**						**L**
					B : Spring Offset	**2**						

*1 For 2-position valves, spool types in addition to 2,3,7 and 8 are available. Refer page no. 354.
*2 Consult YUKEN for availability.
*3 Design numbers subject to change. But installation dimensions remain as shown for deign number 50 through 59.
Note: Models with rubber dust cap at manual push pin are also available. Consult Yuken for details.

List of Standard Models and Maximum Flow

Model with AC Solenoids : DSG-01-※※※ -A※

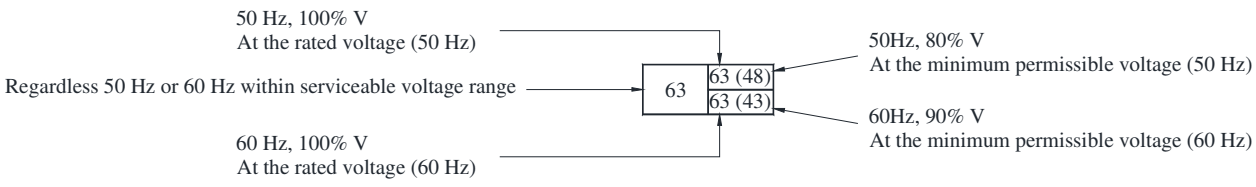
No. of Valve Positions	Spool-Spring Arrangements	Model Numbers	Graphic Symbols	Max. Flow L/min															
				P A B T (A→B, B→A)					P → A [Port "B" Blocked]					P → B [Port "A" Blocked]					
				50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²	250 Kgf/cm²	315 Kgf/cm²	50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²	250 Kgf/cm²	315 Kgf/cm²	50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²	250 Kgf/cm²	315 Kgf/cm²
Three Positions	Spring Centered	DSG-01-3C2		63	63	63	63	63	63 (30)	63 (23)	63 (15)	50 (10)	40 (10)	63 (30)	63 (23)	63 (15)	50 (10)	40 (10)
									45 (25)	33 (18)	20 (10)	13 (5)	13 (5)	45 (25)	33 (18)	20 (10)	13 (5)	13 (5)
		DSG-01-3C3		63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
		DSG-01-3C4		63	63	63	63	63 (48)	63 (25)	63 (23)	63 (20)	63 (13)	55 (10)	63 (25)	63 (23)	63 (20)	63 (13)	55 (10)
								63 (43)	58 (20)	48 (18)	35 (15)	20 (8)	13 (5)	58 (20)	48 (18)	35 (15)	20 (8)	13 (5)
		DSG-01-3C40		63	63	63	63	63	63 (30)	63 (23)	63 (15)	50 (10)	40 (10)	63 (30)	63 (23)	63 (15)	50 (10)	40 (10)
									45 (25)	33 (18)	20 (10)	13 (5)	13 (5)	45 (25)	33 (18)	20 (10)	13 (5)	13 (5)
		DSG-01-3C5*		45	43	40	40	--	45	43	40	40	--	45	43	40	40	--
		DSG-01-3C60*		45	43	40	40	--	45	43	40	40	--	45	43	40	40	--
		DSG-01-3C7		63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
		DSG-01-3C8		--	--	--	--	--	63 (25)	63 (25)	63 (25)	63 (15)	63 (10)	63 (25)	63 (25)	63 (25)	63 (13)	63 (10)
									63 (20)	38 (20)	28 (20)	20 (10)	15 (5)	63 (20)	38 (20)	28 (20)	20 (10)	15 (5)
		DSG-01-3C9		63	63	63	63	63	28	20	15	10	10	28	20	15	10	10
		DSG-01-3C10		63	63	63	63	63	63 (38)	63 (30)	63 (25)	63 (15)	63 (13)	63 (38)	63 (30)	63 (25)	63 (15)	63 (13)
									63 (33)	45 (25)	30 (20)	20 (10)	15 (8)	63 (33)	45 (25)	30 (20)	20 (10)	15 (8)
		DSG-01-3C11		63	63	63	63	63	30	23	20	13	10	63	63 (50)	63 (50)	63 (50)	63 (50)
														63 (58)	63 (45)	63 (45)	63 (45)	63 (45)
		DSG-01-3C12		63	63	63	63	63	63 (30)	63 (28)	63 (23)	63 (18)	63 (15)	63 (30)	63 (28)	63 (23)	63 (18)	63 (15)
									63 (25)	35 (23)	25 (18)	18 (13)	15 (10)	63 (25)	35 (23)	25 (18)	18 (13)	15 (10)
Two Positions	No Spring Detented	DSG-01-2D2		63	63	63	63	63	45	45	45	45 (35)	45 (25)	45	45	45	45 (35)	45 (25)
												40 (30)	30 (20)				40 (30)	30 (20)
		DSG-01-2D3		63	63	63	63	63	45	45	45	45 (35)	45 (25)	45	45	45	45 (35)	45 (25)
												40 (30)	30 (20)				40 (30)	30 (20)
		DSG-01-2D7		63	63	63	63	63	45	45	45	45 (35)	45 (25)	45	45	45	45 (35)	45 (25)
												40 (30)	30 (20)				40 (30)	30 (20)
		DSG-01-2D8		--	--	--	--	--	40 (30)	40 (30)	40 (30)	35 (30)	35 (25)	40 (30)	40 (30)	40 (30)	35 (30)	35 (25)
									35 (30)	35 (30)	35 (30)	30 (25)	25 (20)	35 (30)	35 (30)	35 (30)	30 (25)	25 (20)
	Spring Offset	DSG-01-2B2		63	63	63	63	63	20	20	20	20	20	63	63 (55)	63 (50)	63 (50)	63 (45)
															63 (50)	63 (45)	63 (45)	60 (40)
		DSG-01-2B3		63	63	63	63	63	50	50	50	50	50	63	63	63	63	63
					63 (60)	63 (60)	63 (60)	63 (60)						63 (55)	63 (55)	63 (55)	63 (55)	63 (55)
		DSG-01-2B8		--	--	--	--	--	25	13	10	10	10	63 (28)	63 (25)	63 (20)	63 (13)	50 (10)
														63 (23)	35 (20)	23 (15)	15 (8)	10 (5)

Note :

1 Maximum Flow rates and applied current.

- The single column describes maximum flow rates regardless of whether AC solenoid 50 Hz or 60 Hz as long as it is within serviceable voltage range.
- Maximum flow rates at 50 Hz solenoid with serviceable voltage range, refer to the figures in the upper column and 60 Hz solenoid as long as it is within serviceable voltage range. Refer to the figures in the latter column.
  Where two figures are shown in the same column , the figure outside ( ) is at rated voltage and inside ( ) is at the minimum permissible solenoid voltage.

(Example)



2 For the maximum flow between P and T of those valves marked *, refer to page 352.

List of Standard Models and Maximum Flow

Model with DC or R Type Solenoids : DSG-01-※※※-D※/R※

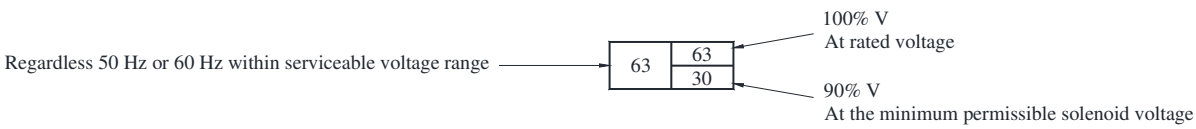
No. of Valve Positions	Spool-Spring Arrangements	Model Numbers	Graphic Symbols	Max. Flow L/min P → A, B → B, T [Port "B" Blocked]					P → A [Port "B" Blocked]					P → B [Port "A" Blocked]				
				50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²	250 Kgf/cm²	315 Kgf/cm²	50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²	250 Kgf/cm²	315 Kgf/cm²	50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²	250 Kgf/cm²	315 Kgf/cm²
Three Positions	Spring Centered	DSG-01-3C2		63	63	63	63	63	45	30	20	15	13	45	30	20	15	13
									33	23	15	10	10	33	23	15	10	10
		DSG-01-3C3		63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
		DSG-01-3C4		63	63	63	63	35	63	45	35	30	28	63	45	35	30	28
							28	23	50	30	23	15	13	50	30	23	15	13
		DSG-01-3C40		63	63	63	63	63	45	45	45	45	45	45	30	20	15	13
									33	23	15	10	10	33	23	15	10	10
		DSG-01-3C5*		45	43	40	40	--	45	43	40	40	--	45	43	40	40	--
		DSG-01-3C60*		45	43	40	40	--	45	43	40	40	--	45	43	40	40	--
		DSG-01-3C7		63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
		DSG-01-3C8		--	--	--	--	--	63	50	30	20	15	63	50	30	20	15
									55	28	18	13	10	55	28	18	13	10
		DSG-01-3C9		63	63	63	63	63	25	20	15	10	10	25	20	15	10	10
		DSG-01-3C10		63	63	63	63	45	63	55	40	28	20	63	55	40	28	20
							33	23		40	28	18	13		40	28	18	13
		DSG-01-3C11		63	63	63	63	63	30	23	20	13	10	63	58	55	55	55
															50	50	50	50
		DSG-01-3C12		63	63	63	63	38	63	60	40	25	20	63	60	40	25	20
							30	23		38	28	20	15		38	28	20	15
Two Positions	No Spring Detented	DSG-01-2D2		63	63	63	63	63	45	45	45	40	30	45	45	45	40	30
				58	55	55	55	55				30	25				30	25
		DSG-01-2D3		63	63	63	63	63	45	45	45	40	30	45	45	45	40	30
				58	55	55	55	55				30	25				30	25
		DSG-01-2D7		63	63	63	63	63	45	45	45	40	30	45	45	45	40	30
				58	55	55	55	55				30	25				30	25
		DSG-01-2D8		--	--	--	--	--	35	35	35	30	25	35	35	35	30	25
									30	30	30	25	20	30	30	30	25	20
	Spring Offset	DSG-01-2B2		63	63	63	63	63	20	18	18	18	18	63	58	40	30	30
				53	53	53	53	53							40	28	25	25
		DSG-01-2B3		38	38	38	38	38	48	48	45	45	40	63	63	63	63	63
				28	28	28	28	28	45	45	40	40	38		60	60	60	60
		DSG-01-2B8		--	--	--	--	--	25	13	10	8	8	63	48	28	15	15
															30	20	13	10

Note:

1 Maximum Flow Rates and applied current.

- The single column describes maximum flow rates regardless of voltage as long as it is within the serviceable voltage range.
- Where two figures are shown in the same column, the upper is at rated voltage and the latter is at the minimum permissible solenoid voltage.

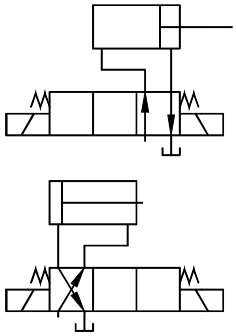
(Example)

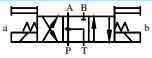
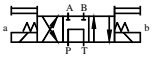


2 For the maximum flow between P and T of those valves marked *, refer to page 352.

Maximum Flow of Centre By-Pass

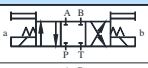
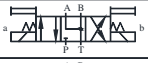
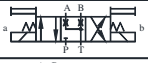
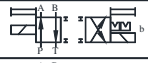
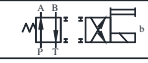
In spool type 5 and 60, P→T (Center By-Pass) flow rates are limited as shown in the column below. Described maximum flow rates are regardless voltage within serviceable voltage range.



Model Numbers	Graphic Symbols	Max. Flow L/min.			
		50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²	250 Kgf/cm²
DSG-01-3C5-A※/D※/R※		45	43	40	30
DSG-01-3C60-A※/D※/R※		45	43	40	30

List of Spool Function of Shock-Less Type

- **Model with DC or R Type Solenoids : S-DSG-01-※※※-D※/R※**

No. Of Valve Positions	Spool Spring Arrangement	Model Numbers	Graphic Symbols	Max. Flow L/min. P → A, B → B			P → A [Port "B" Blocked]			P → B [Port "A" Blocked]		
				50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²	50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²	50 Kgf/cm²	100 Kgf/cm²	160 Kgf/cm²
Three Positions	Spring Centered	S-DSG-01-3C2		40	40	40	40	40 20	30 15	40	40 20	30 15
		S-DSG-01-3C4		40	40	40	40	40 20	30 15	40	40 20	30 15
		S-DSG-01-3C40		40	40	40 30	40	40 20	25 15	40	40 20	25 15
Two Positions	No Spring	S-DSG-01-2N2		40	40	40	40	40	40	40	40	40
	Spring Offset	S-DSG-01-2B2		40	40 35	40 35	40	30	30	40	40 20	25 15

Note:

1 Maximum Flow Rates and applied current.

- The single column describes maximum flow rates regardless voltage within serviceable voltage range.
- Where two figures are shown in the same column, the upper is at rated voltage and the latter is at the minimum permissible solenoid voltage.

(Example)

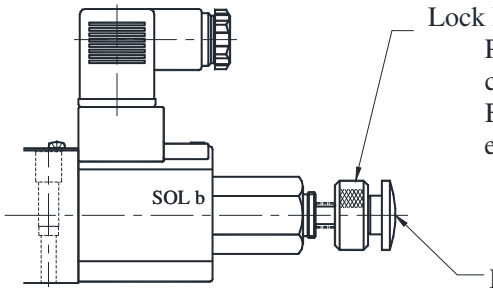
Regardless voltage within serviceable range → 40 / 40 / 20

100% V
At rated voltage

90% V
At the minimum permissible solenoid voltage

Options

Model With Push Button & Lock Nut : (S-) DSG-01-※※※-※C-(N / N1)-50



Lock Nut

Press the "Push Button" then turn "Lock Nut" clockwise. The position of the "Push Button" is held. Be sure to loosen "Lock Nut" fully before solenoid is energized.

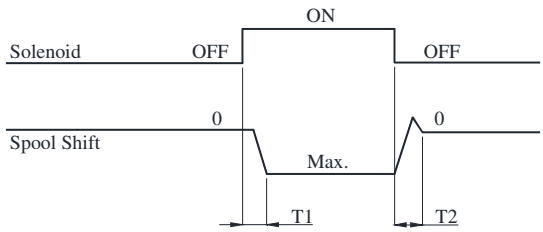
Push Button

Typical Changeover Time

Changeover time varies according to oil
Viscosity, spool type and hydraulic circuit

Standard Type

(Without Shockless Function)



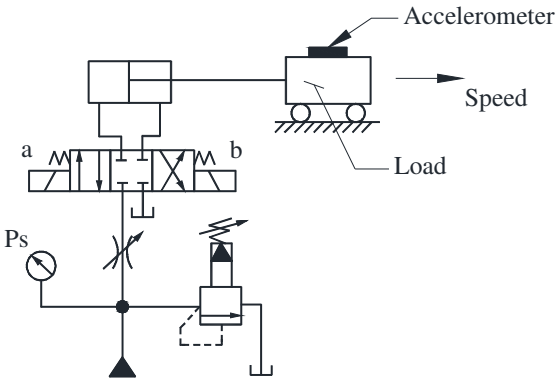
[Test Conditions]
Pressure : 160 Kgf/cm^2
Flow Rate: 31.5 L/min
Viscosity: 35cSt
Voltage : 100% V
(After coil temperature rise and saturates)

[Result of Measurement]

Type	Model Numbers	Changeover Time ms	
		T1	T2
Standard Type	DSG-01-3C2-A※	15	23
	DSG-01-3C2-D※	48	19
	DSG-01-3C2-R※	50	100

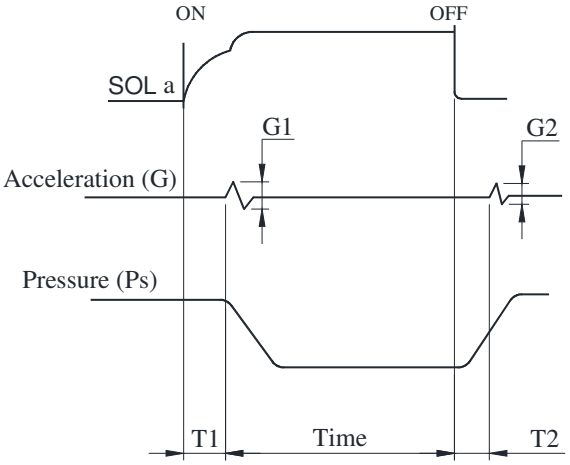
Shockless Type

[Test Circuit an Conditions]



Setting Pressure (Ps): 70 Kgf/cm^2
Speed :8m/min

[Result of Measurement]

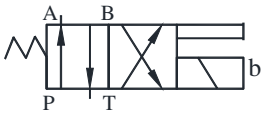


Type	Model Numbers	Time ms		Acceleration (G) m/s²	
		T1	T2	G1	G2
Shockless Type	S-DSG-01-3C2-D※	70	30	1.2	0.7
Standard Type	DSG-01-3C2-D※	35	25	1.8	1.5

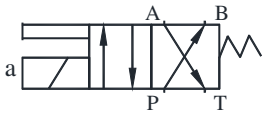
Spring Offset Valves with Alternate Solenoid

Through our standard spring offset models use solenoid “b”, alternate models using solenoid “a” are also available. The graphic symbols are expressed below.

For Models 2 B※ A and 2B※ B, refer to table below.



Standard Offset

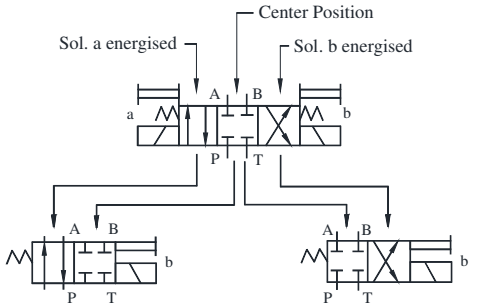


Alternate Offset

Valves with Center position and One Offset Position (Special Two Position Valve)

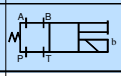
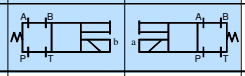
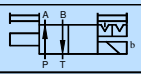
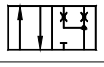
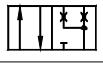
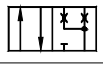
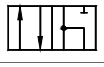
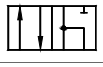
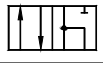
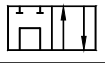
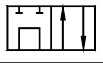
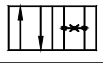
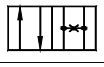
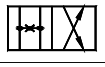
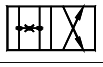
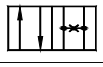
In addition to the standard two position valves shown on the table on page 350 and 351 two kinds of valves are available with center position and either one of two offset positions.
Standard and alternate offset types use solenoid “b” and solenoid “a” respectively.

(Example) In case of spool Type “2”



"A" : Use of Center and **SOL.a** energised Position (2B2A)

"B" : Use of Center and **SOL.b** energised Position (2B2B)

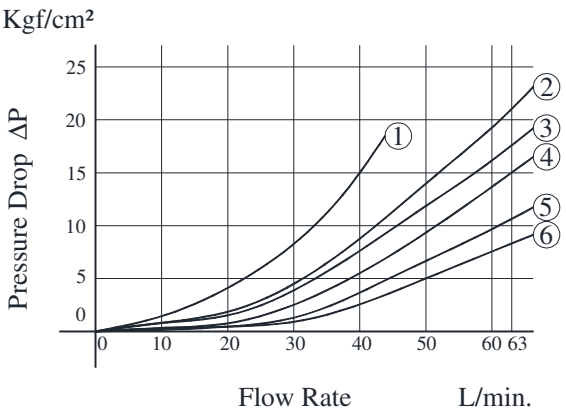
Model Number	Graphic Symbol		Model Number	Graphic Symbol		Model Number	Graphic Symbol
	Standard Offset Type	Alternate Offset Type		Standard Offset Type	Alternate Offset Type		Standard Offset Type
DSG-01-2B※ A			DSG-01-2B※ B			DSG-01-2D※ A	
DSG-01-2B2A			DSG-01-2B2B			DSG-01-2D2A	
DSG-01-2B3A			DSG-01-2B3B			DSG-01-2D3A	
DSG-01-2B4A			DSG-01-2B4B			DSG-01-2D4A	
DSG-01-2B40A			DSG-01-2B40B			DSG-01-2D40A	
DSG-01-2B5A			DSG-01-2B5B			DSG-01-2D5A	
DSG-01-2B60A			DSG-01-2B60B			DSG-01-2D7A	
DSG-01-2B7A			DSG-01-2B7B			DSG-01-2D9A	
DSG-01-2B8A			DSG-01-2B8B			DSG-01-2D10A	
DSG-01-2B9A			DSG-01-2B9B			DSG-01-2D11A	
DSG-01-2B10A			DSG-01-2B10B			DSG-01-2D12A	
DSG-01-2B11A			DSG-01-2B11B				
DSG-01-2B12A			DSG-01-2B12B				

Pressure Drop

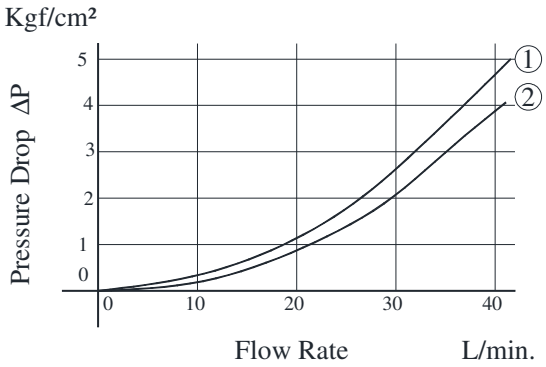
Pressure drop based on viscosity cSt and specific gravity of 0.850.

Model Numbers	Pressure Drop Curve Number				
	P→A	B→T	P→B	A→T	P→T
DSG-01-3C2	⑤	⑤	⑤	⑤	—
DSG-01-3C3	⑥	⑥	⑥	⑥	④
DSG-01-3C4	⑤	⑥	⑤	⑥	—
DSG-01-3C40	⑤	⑤	⑤	⑤	—
DSG-01-3C5	①	①	①	①	④
DSG-01-3C60	①	①	①	①	④
DSG-01-3C7	⑤	⑤	⑤	⑤	—
DSG-01-3C8	⑤	—	⑤	—	—
DSG-01-3C9	⑥	⑤	⑤	⑥	—
DSG-01-3C10	⑤	⑥	⑤	⑤	—
DSG-01-3C11	⑥	⑤	⑤	⑤	—
DSG-01-3C12	⑤	⑤	⑤	⑥	—
DSG-01-2D2	⑤	②	⑤	②	—
DSG-01-2D3	⑤	③	⑤	③	—
DSG-01-2D7	⑤	③	⑤	③	—
DSG-01-2D8	⑤	—	⑤	—	—
DSG-01-2B2	②	②	⑤	⑤	—
DSG-01-2B3	③	③	⑤	⑥	—
DSG-01-2B8	⑤	—	⑤	—	—
DSG-01-2N2	⑤	②	⑤	②	—
DSG-01-2N3	⑤	③	⑤	③	—
DSG-01-2N7	⑤	③	⑤	③	—
DSG-01-2N8	⑤	—	⑤	—	—

- **Standard Type : DSG-01**



- **Shock-Less Type : S-DSG-01**



Model Numbers	Pressure Drop Curve Number			
	P→A	B→T	P→B	A→T
S-DSG-01-3C2	①	①	①	①
S-DSG-01-3C4	①	②	①	②
S-DSG-01-3C40	①	②	①	②
S-DSG-01-2N2	①	①	①	①
S-DSG-01-2B2	①	①	①	①

- For any other viscosity, multiply the factors in the table below.

Viscosity cSt (mm^2/s)	15	20	30	40	50	60	70	80	90	100
Factor	0.81	0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.30

- For any other specific gravity (G′), the pressure drop (ΔP′) can be obtained from the formula below.

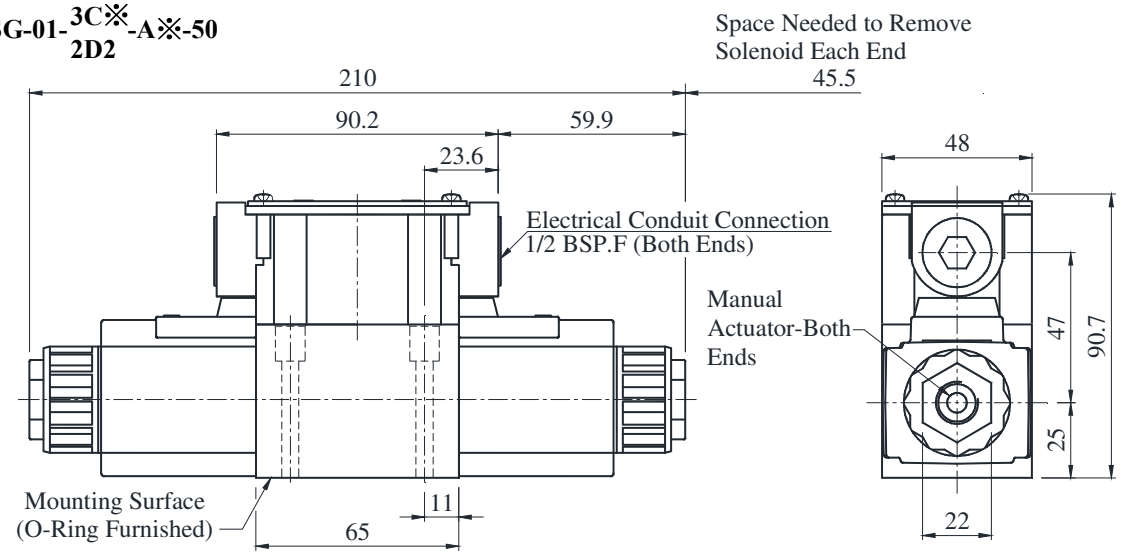
$\Delta P' = \Delta P(G'/0.850)$

TERMINAL BOX TYPE

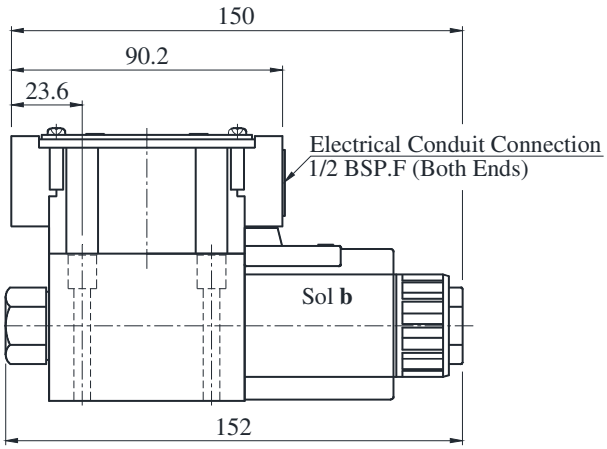
DIMENSIONS IN MILLIMETRES

Models With AC Solenoid

- **Double Solenoid: Spring Centred & No-Spring Detented**
- **DSG-01-$\begin{matrix}3C\text{※}\\2D2\end{matrix}$-A※-50**



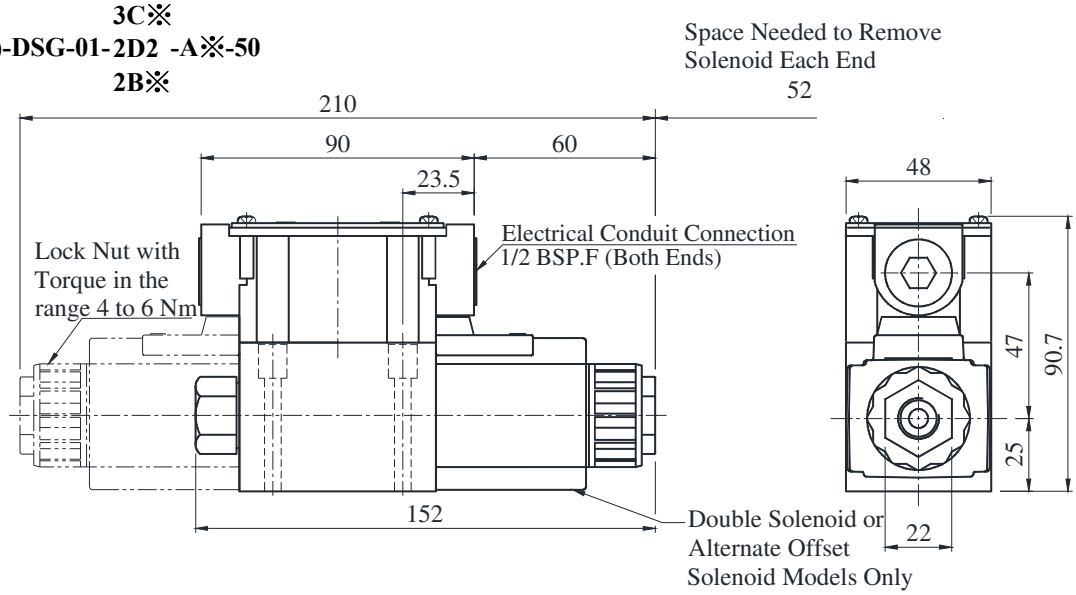
- **Single Solenoid: Spring Offset**
- **DSG-01- 2B※-A※-50**



For other dimensions, refer to models with Double Solenoid.
Alternate models using solenoid "**a**" are also available.

Models With DC & R Solenoid

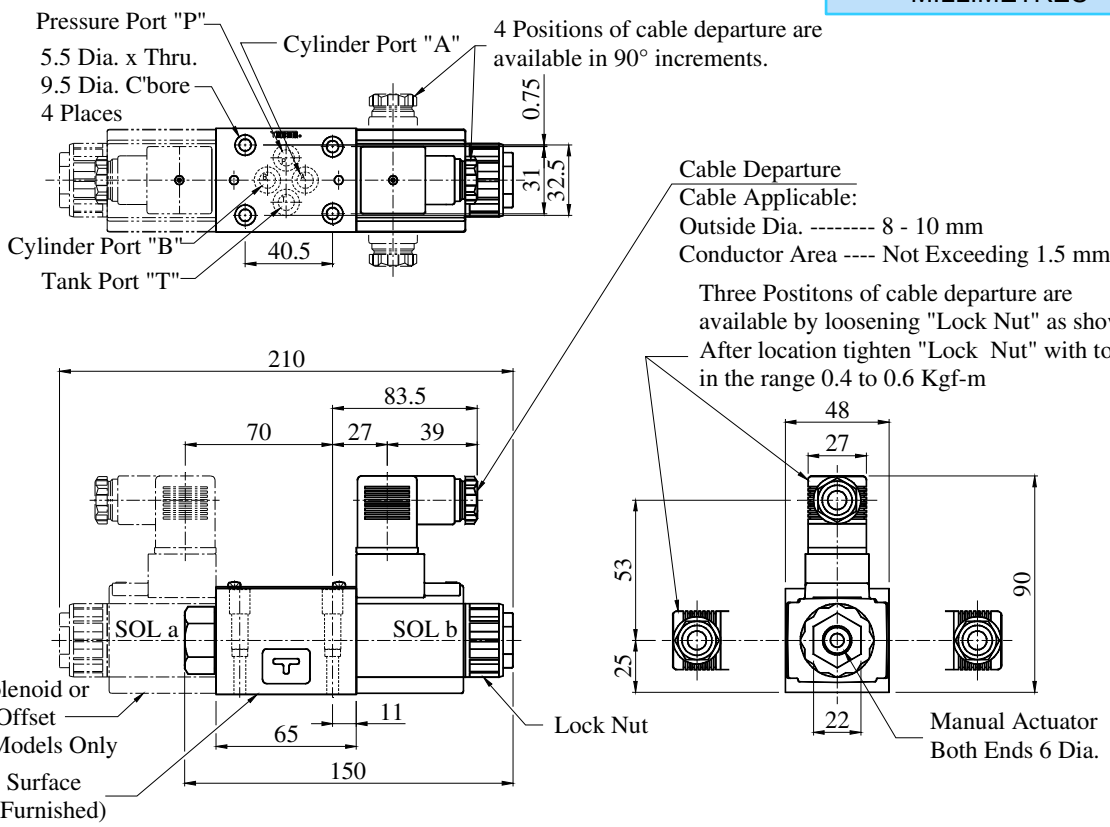
- **Spring Centred, No-Spring Detented & Spring Offset**
- **(S)-DSG-01-$\begin{matrix}3C\text{※}\\2D2\\2B\text{※}\end{matrix}$-A※-50**



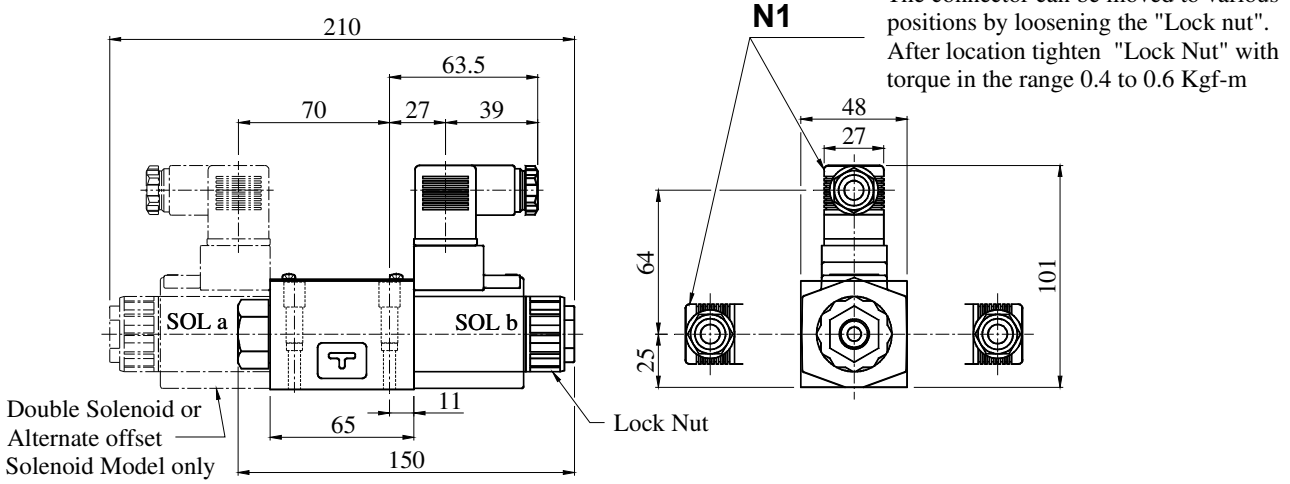
PLUG-IN CONNECTOR TYPE (N)
PLUG-IN CONNECTOR WITH INDICATOR LIGHT (N1)

DIMENSIONS IN MILLIMETRES

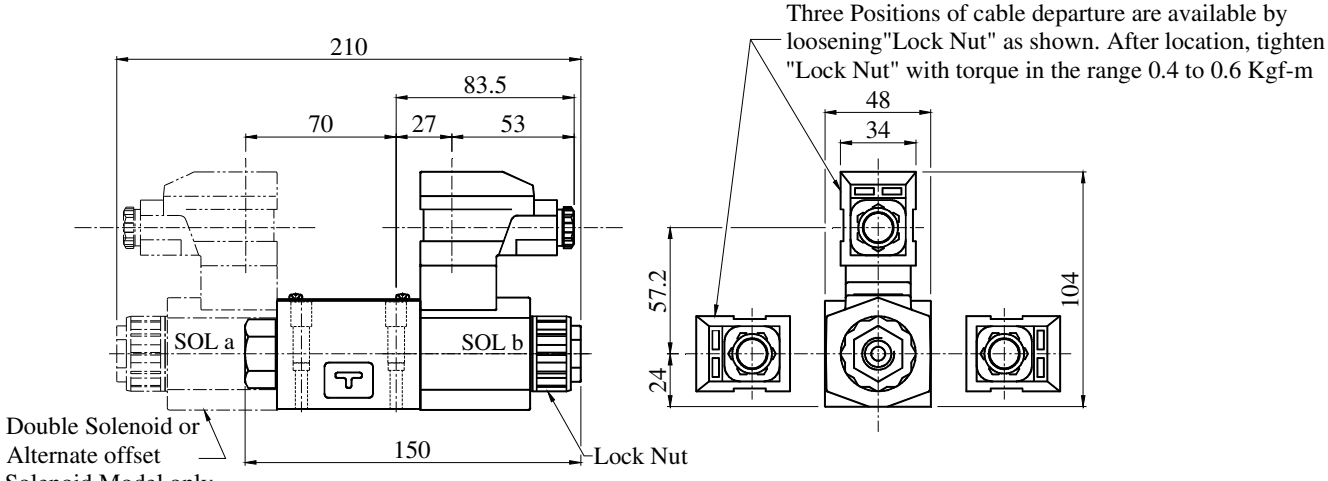
Models With AC Solenoid : DSG-01-※※※-A※-$^{N}_{N1}$-50



Models With DC Solenoid : DSG-01-※※※-D※-$^{N}_{N1}$-50



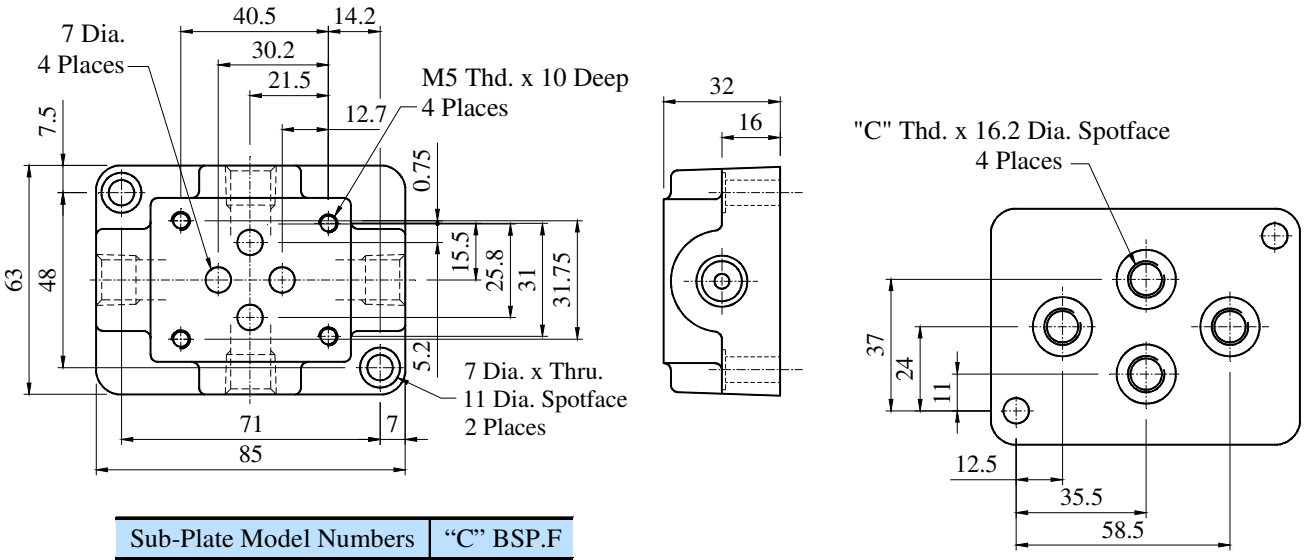
Models With R Solenoid : DSG-01-※※※-R※-N-50



Sub Plates

DIMENSIONS IN MILLIMETRES

- **DSGM-01※-3080**



Sub-Plate Model Numbers	"C" BSP.F
DSGM-01-3080	1/8
DSGM-01X-3080	1/4
DSGM-01Y-3080	3/8

Sub-Plates are available specify sub-plate model from the table above. When sub-plates are not used, the mounting surface should have a good machined finish.

Spare Parts List

- **List of Seals**

Model Numbers	O-Ring Details For Seal Kit	Qty.		
		3C※	2D※	2B※
DSG-01-※※※-※※-50	SO-NB-P9	4		4
	SO-NB-P18	2		2
	SO-NA-P4	4		2
DSG-01-※※※-※※-N-50	SO-NB-P9	4		4
	SO-NB-P18	2		1

Note:When ordering the seals, please specify the seal kit number as shown above.

- **List of Seal kits**

Valve Model Numbers	Seal Kit Numbers
DSG-01-※※※-※※-50	KS-DSG-01-50
DSG-01-※※※-※※-N-50	KS-DSG-01-N-50

Solenoid Assy., Coil, Connector Assy. Number

Valve Model Numbers	Solenoid Assy. Numbers	Coil Numbers	Terminal Box / Connector Assy. Part Numbers	Remarks
DSG-01-※※※-A100-50※	SA1-100-50	C-SA1-100-50	AC-TB1-60-$\frac{1}{2}$ [*1]	Terminal Box Type
DSG-01-※※※-A120-50※	SA1-120-50	C-SA1-120-50		
DSG-01-※※※-A200-50※	SA1-200-50	C-SA1-200-50		
DSG-01-※※※-A240-50※	SA1-240-50	C-SA1-240-50		
DSG-01-※※※-D12-50※	SD1-12-50	C-SD1-12-50	DC-TB1-60-$\frac{1}{2}$ [*1]	
DSG-01-※※※-D24-50※	SD1-24-50	C-SD1-24-50		
DSG-01-※※※-D48-50※	SD1-48-50	C-SD1-48-50		
DSG-01-※※※-R100-50※	SR1-100-50	C-SR1-100-50	R-TB1-60-$\frac{1}{2}$ [*1]	
DSG-01-※※※-R200-50※	SR1-200-50	C-SR1-200-50		
S-DSG-01-※※※-D12-50※	SD1-12-S-50	C-SD1-12-50	DC-TB1-60-$\frac{1}{2}$ [*1]	
S-DSG-01-※※※-D24-50※	SD1-24-S-50	C-SD1-24-50		
S-DSG-01-※※※-D48-50※	SD1-48-S-50	C-SD1-48-50		
S-DSG-01-※※※-R100-50※	SR1-100-S-50	C-SR1-100-50	R-TB1-60-$\frac{1}{2}$ [*1]	
S-DSG-01-※※※-R200-50※	SR1-200-S-50	C-SR1-200-50		
DSG-01-※※※-A100-N1-50※	SA1-100-N-50	C-SA1-100-N-50	GDML-211-1-11	Plug-in Connector with Indicator Light.
DSG-01-※※※-A120-N1-50※	SA1-120-N-50	C-SA1-120-N-50		
DSG-01-※※※-A200-N1-50※	SA1-200-N-50	C-SA1-200-N-50		
DSG-01-※※※-A240-N1-50※	SA1-240-N-50	C-SA1-240-N-50		
DSG-01-※※※-D12-N1-50※	SD1-12-N-50	C-SD1-12-N-50	GDML-211-2-11	
DSG-01-※※※-D24-N1-50※	SD1-24-N-50	C-SD1-24-N-50	GDML-211-3-11	
DSG-01-※※※-D48-N1-50※	SD1-48-N-50	C-SD1-48-N-50	GDML-211-1-11	
S-DSG-01-※※※-D12-N1-50※	SD1-12-S-N-50	C-SD1-12-N-50	GDML-211-2-11	
S-DSG-01-※※※-D24-N1-50※	SD1-24-S-N-50	C-SD1-24-N-50	GDML-211-3-11	
S-DSG-01-※※※-D48-N1-50※	SD1-48-S-N-50	C-SD1-48-N-50	GDML-211-1-11	

Note: The connector or terminal box assembly is not included in the solenoid assembly.

[*1] For '2B' models, use ※-TB3-60-1.
For '3C', '2D' & '2N' models, use ※-TB3-60-2.