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 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

yne@nt-rt.ru || <https://yuken.nt-rt.ru>

The valve is actuated by operating a built-in switch using a very small current signal (about 10 mA) when the solenoid is energised.

- A Direct drive by the programmable controller is now possible
 As the valve can be actuated by a very small current signal (about 10 mA), a Direct Drive is possible on the output circuit of the programmable controller or sequence controller.
- Simple construction and stable operation
 Since the valve is a direct type, the construction is quite simple. Also the solenoid is the well proven wet armature type, which can withstand contamination. Therefore a stable operation can be obtained.

Specifications and Characteristics of Standard Solenoid

Standard solenoid specifications and pressure drop are same with DSG-01/03 series, please refer to relevant pages.

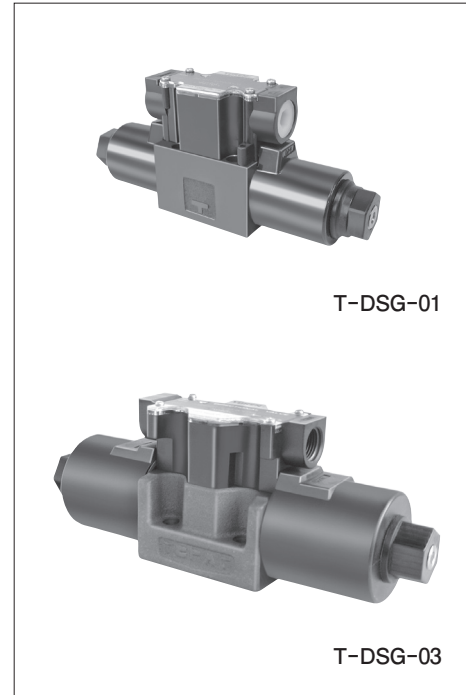
Dimensions

Dimensions are same with DSG-01/03 series, please refer to relevant pages.

Sub-plates and Mounting Bolts

Sub-plates use same models with DSG-01/03 series. Mounting bolts are same with DSG-01/03 series, please refer to relevant pages.

Specifications



T-DSG-01

T-DSG-03

Valve Type	Model Numbers	Max. Flow* L/min	Max. Operating Pressure MPa	Max. T-Line Back Pressure MPa	Max. Changeover Frequency min ⁻¹	Mass kg
Standard Type	T-DSG-01-3C * -D24 * -70	100	35	21	300	1.85
	T-DSG-01-2D2-D24 * -70					
	T-DSG-01-2B * -D24 * -70					
Shockless Type	T-S-DSG-01-3C * -D24 * -70	63	25	21	120	1.85
	T-S-DSG-01-2B2-D24 * -70					1.4
Standard Type	T-DSG-03-3C * -D24 * -50	120	(31.5 Spool Type 60 Only 25)	16	240	5
	T-DSG-03-2D2-D24 * -50					3.6
	T-DSG-03-2B * -D24 * -50					5
Shockless Type	T-S-DSG-03-3C * -D24 * -50	120	25	16	120	5
	T-S-DSG-03-2B2-D24 * -50					3.6

★ Maximum flow indicates a ceiling flow. As the ceiling flow depends on the type of spool and operating condition same as those for standard DSG-01/03, refer to the List of Standard Models for details.

Pages for List of DSG-01/03 Standard Models

Valve Size	Type : Model Numbers	Pages for List of Standard Models
01	Standard Type : DSG-01- * * * -D * -70	E-26
	Shockless Type : S-DSG-01- * * * -D * -70	E-27
03	Standard Type : DSG-03- * * * -D * -50	E-41
	Shockless Type : S-DSG-03- * * * -D * -50	E-42

Signal Power Voltage (External Signal Power Type)

Valve Size	Signal Power Voltage	Current on Signal Cable
01	20 - 65 V DC★1	About 10 mA Constant★2
03		

★1. If use at the range of 5 - 20 V DC, please contact us.

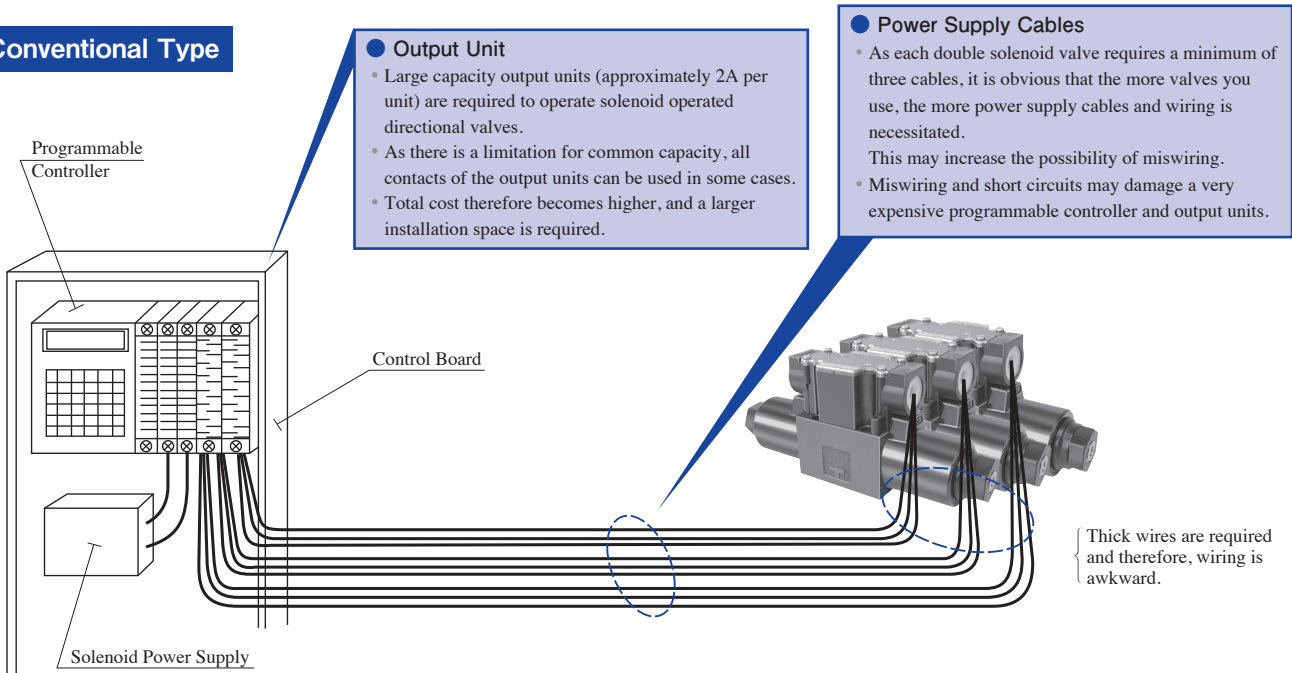
★2. Current does not increase with voltage increase, so no need to district current by resistor etc.

Characteristics and Effect

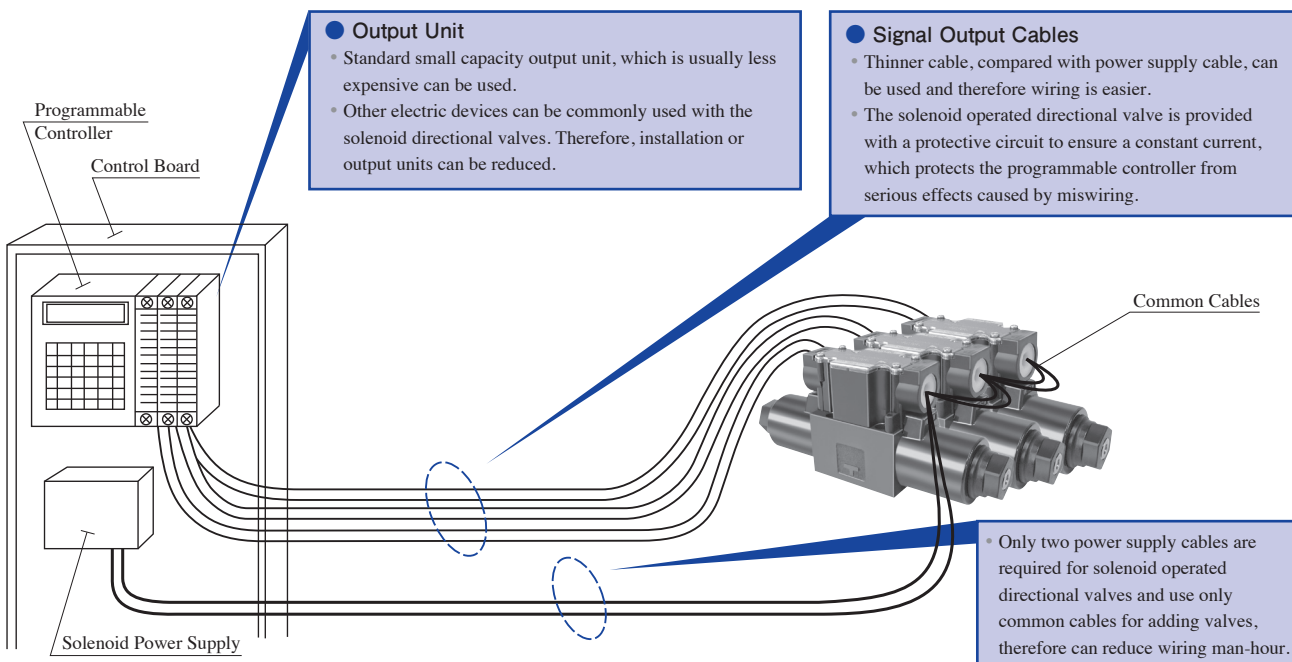
Characteristics	Merit	Effect (Example)
<ul style="list-style-type: none"> Changeover signal current is very small as one hundredth of the conventional type. Changeover Signal Current : 10 mA Constant (Voltage 20 - 65V DC) 	<ul style="list-style-type: none"> Enable to wiring by the cables thinner than conventional ones. Can changeover directly from programmable controller ! Programmable controller enable to be more compact and cut costs. Enable to increase number of simultaneous changeover contacts. Not influence on surge voltage in the sequence output unit. 	<ul style="list-style-type: none"> Cable occupied spaces reduce to one third. No need to relay for changeover. 16 contacts output unit Conventional Type.....Max. 3 Contacts Electronic Relay Incorporated Type.....Max. 16 Contacts
<ul style="list-style-type: none"> Protect of Output Circuit 	<ul style="list-style-type: none"> Not influence on the output side even if over current by defective solenoid changeover for some reason. 	<ul style="list-style-type: none"> Only to replace solenoid operated valve in case of trouble.

Comparison of The Conventional Type and The Electronic Relay Incorporated Type

Conventional Type



Electronic Relay Incorporated Type



■ Model Number Designation

T-	S-	DSG	-01	-2	B	2	A	-D24	M	-70	-L	
Control Type	Type	Series Number	Valve Size	Number of Valve Positions	Spool-Spring Arrangement	Spool Type	Input Only Valves Using Neutral Position & Side Position	Coil Type	Supply Type of Signal Power	Design Number	Models with Reverse Mtg. of Solenoid	
T : Electronic Relay Incorporated Type	None: Standard Type	DSG : Solenoid Operated Directional Valve (Sub-plate Mounting Type)	01	3	C : Spring Centered	2 , 3	—	DC: D24	None: Internal Signal Power M : External Signal Power Sink Type MS : External Signal Power Source Type	70	—	
						4 , 40						
						60 , 9						
				2	D : No-Spring Detented	2	—					
						B : Spring Offset					2	A ^{*1}
											3	B ^{*1}
	8											
	S: Shockless Type		3	C : Spring Centered	2	—	DC: D24	None: Internal Signal Power M : External Signal Power Sink Type MS : External Signal Power Source Type	50	—		
					4							
					2						—	
			B : Spring Offset	2	—							
None: Standard Type	3	C : Spring Centered	2 , 3	—	DC: D24	None: Internal Signal Power M : External Signal Power Sink Type MS : External Signal Power Source Type	50	—				
			4 , 40									
			5 , 60									
	2	D : No-Spring Detented	2	—								
			B : Spring Offset					2	A ^{*1}			
								3	B ^{*1}			
8												
S: Shockless Type	3	C : Spring Centered	2	—	DC: D24	None: Internal Signal Power M : External Signal Power	50	—				
			4									
2	B : Spring Offset	2	A ^{*1}									
				B ^{*1}								

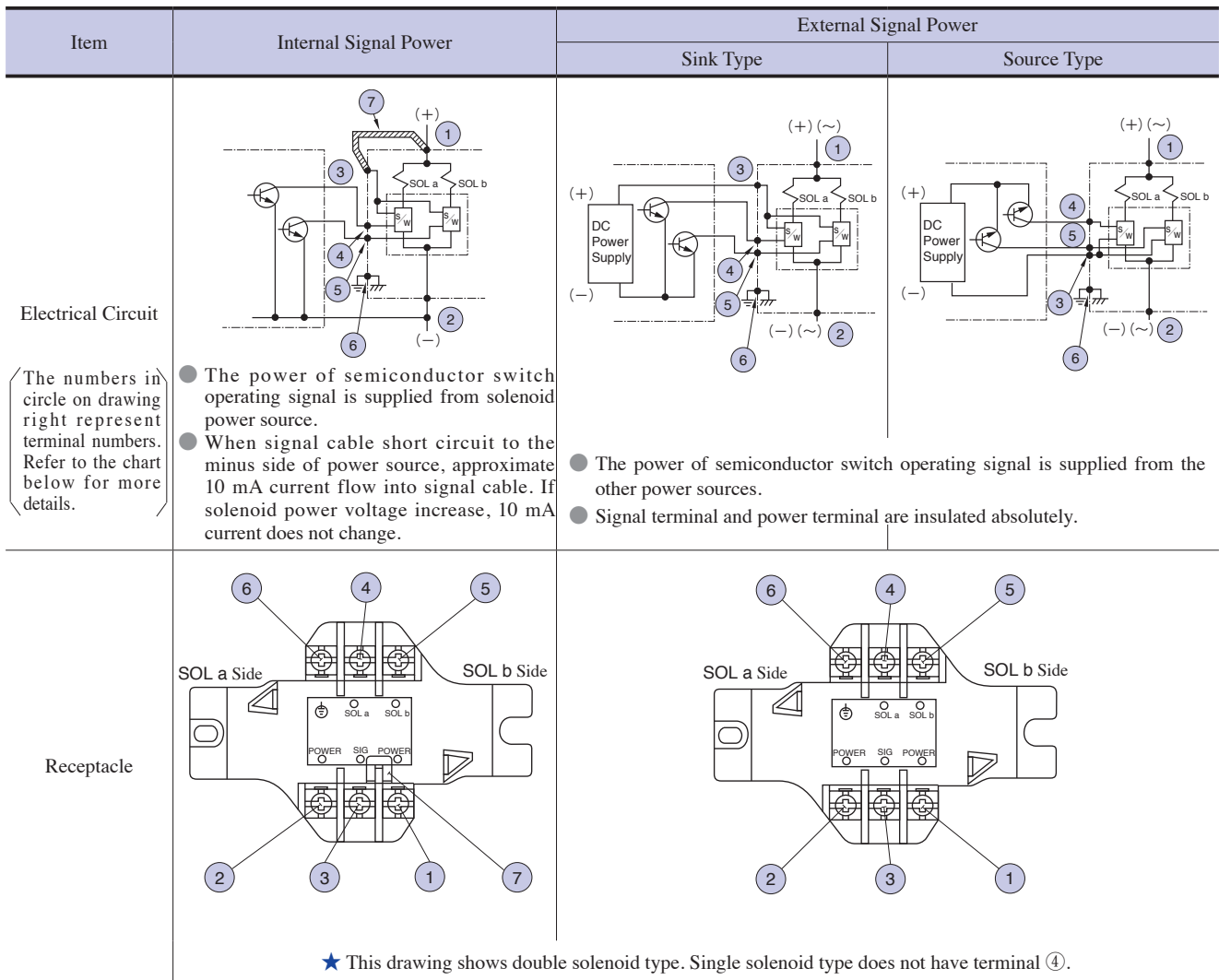
★1. In case of Valves Using Neutral Position and Side Position, please refer to pages E-28 & E-43 for details.

★2. Models for phosphate ester fluid are available. When phosphate ester fluid is used, prefix "F-" to the model number because the special seals (fluororubber) are required to be used.

Attention

In the table above, the symbols or numbers highlighted with shade represent the optional extras. The valves with model number having such optional extras are handled as options, therefore, please confirm the time of delivery with us before ordering.

Details of Receptacle



Terminal Number	Name of Terminals		
	Internal Signal Power	External Signal Power	
		Sink Type	Source Type
①	Power Terminal (24V DC ⊕ Terminal)	Power Terminal (24V DC ⊕ Terminal)	
②	Power Terminal (24V DC ⊖ Terminal)	Power Terminal (24V DC ⊖ Terminal)	
③	Short circuit to terminal ① by common plate. (Unused)	Signal Power Terminal (⊕ Terminal)	Signal Power Terminal (⊖ Terminal)
④	SOL a Signal Terminal (Single solenoid does not have this terminal.)		
⑤	SOL b Signal Terminal		
⑥	Ground Terminal (Connect to body of solenoid operated directional valve)		
⑦	Common Plates		

- Please wire correctly to the receptacle. Power terminals are fixed (+) and (-) sides. Please use smoothing power source for DC power supply.
- There is no time lag between signal output cables switch (ON/OFF) and solenoid switching (ON/OFF).
- Signal output cables do not need to use shield cables.
- This valves of external signal type, the signal terminal and power terminal are insulated. So that surge voltage which generated when solenoid off will not affect to control units connecting signal output cables. (Internal signal type generate surge voltage, so please install surge killer as required.)

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