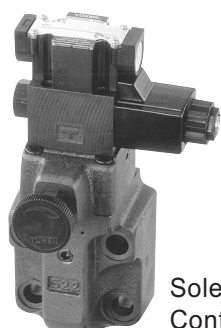


Solenoid Controlled Relief Valves Max. Pressure 25 MPa



Solenoid Controlled Relief Valve



Low Noise Type Pilot Operated Relief Valve

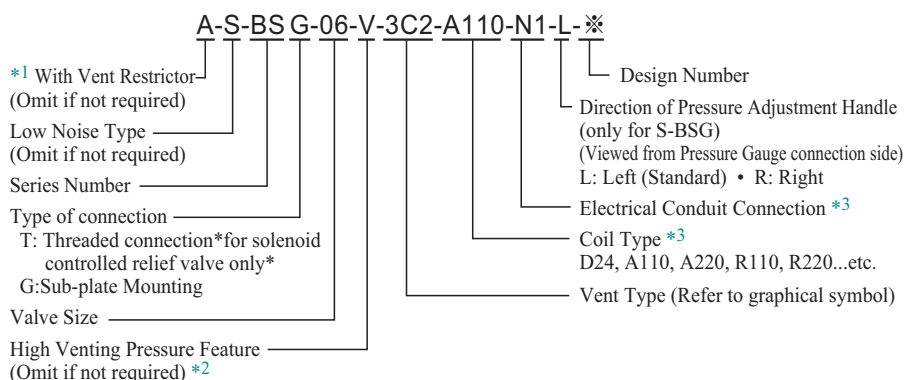
These valves are a combination of relief valve and solenoid valve. Piping between the two valves is eliminated as the solenoid valve is directly mounted on the relief valve and connected with the relief valve vent. Pump pressure may be unloaded remotely by an electrical signal to the solenoid, or by connecting the pilot relief valve to the solenoid valve ports.

Ratings

Valve Type	Valve Size	Model No.	Pressure Adjustment Range MPa (kgf/cm ²)	Max. Flow L/min	Mass kg*	
					Single Sol.	Double Sol.
Solenoid Controlled Relief Valve	3/8	BST-03-※-※-※-46	0.5~25 (5~250)	100	6.8	7.4
		BSG-03-※-※-※-46			6.5	7.1
	3/4	BST-06-※-※-※-46		200	6.8	7.4
		BSG-06-※-※-※-46			7.4	8.0
	1-1/4	BST-10-※-※-※-46		400	10.5	11.1
		BSG-10-※-※-※-46			10.7	11.3
Low Noise Type Pilot Operated Relief Valve	3/8	S-BSG-03-※-※-※- ^R -51	0.4~25 (4~250)	100	5.7	6.3
	3/4	S-BSG-06-※-※-※- ^R -51		200	6.6	7.2

*For models with vent restrictors, add 1kg.

Model Number Designation



*1. Models with vent restrictor (ST-797-40) are applicable only for the vent type 2B3A and 2B3B. It prevents shocks to the main circuit by gradually lowering the venting pressure in the shift from the set pressure to unloading. The hydraulic fluid viscosity remains the range of 15~200cSt. The bolt kits should be 30 mm longer when mounting solenoid controlled relief valves.

*2. Use high-venting pressure type to reduce response time from unloading to loading.

*3. The coil type is the same as that of the solenoid operated directional valve DSG-01. (Page 86)

*4. The minimum using flow is restricted. Please refer to page 53. BG/BT/S-BG series.

Graphic Symbol

Vent type

2B3A	2B3B
2B2B	2B2
3C2	3C3
With Vent Restrictor (A-BS※)	
2B3A	2B3B

Sub-Plate

Valve Model No.	Sub-plate Model No.	Piping Size Rc	Mass kg
(S)-BSG-03	BGM-03-20	3/8	2.4
	BGM-03X-20	1/2	3.1
(S)-BSG-06	BGM-06-20	3/4	4.7
	BGM-06X-20	1	5.7
BSG-10	BGM-10-20	1-1/4	8.4
	BGM-10X-20	1-1/2	10.3

Please refer to page 56 for dimension details.

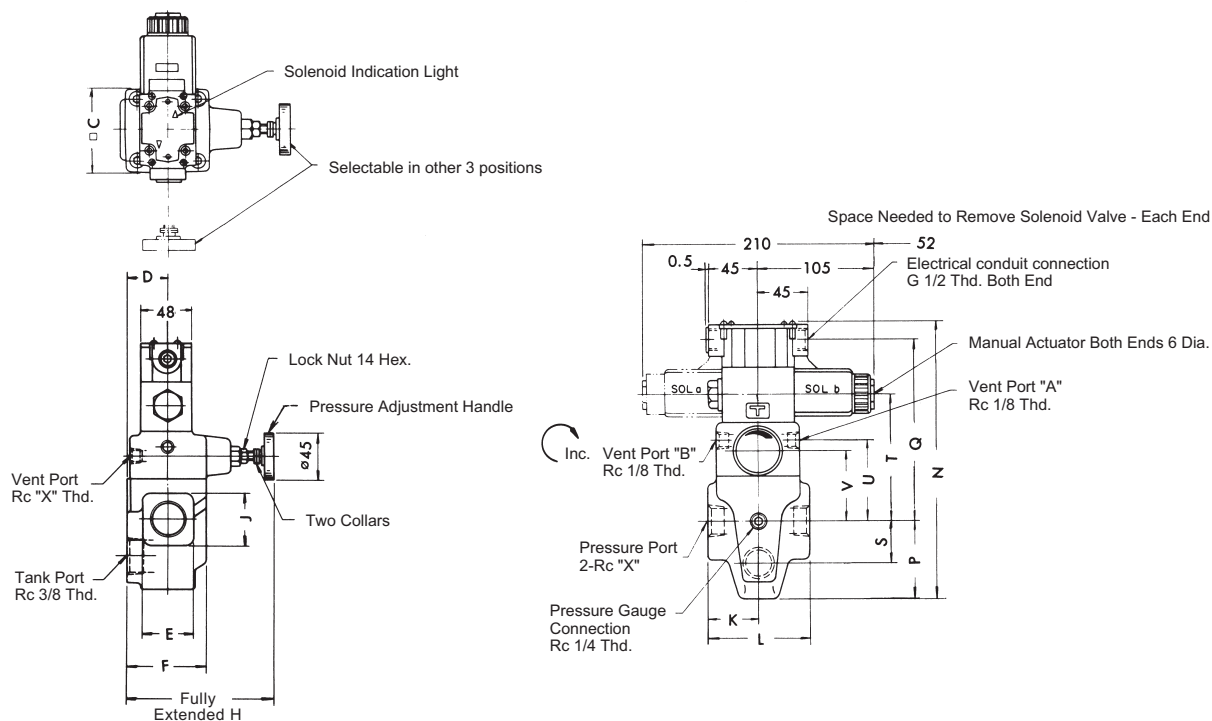
Mounting Bolts (Attachment)

Model No.	Socket Head Cap	Screw Q'ty	Tightening Torque N•m
BSG-03	M12 x 70 Lg	2	104~127
	M12 x 95 Lg	2	
BSG-06	M16 x 60 Lg	2	253~310
	M16 x 80 Lg	2	
BSG-10	M20 x 70 Lg	2	493~603
	M20 x 90 Lg	2	
S-BSG-03	M12 x 40 Lg	4	104~127
S-BSG-06	M16 x 50 Lg	4	253~310

Solenoid Controlled Relief Valves

Max. Pressure 25 MPa

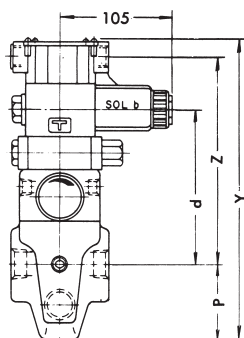
BST-03,06,10



Model No.	C	D	E	F	H	J	K	L	N	P	Q	S	T	U	V	X
BST-03	75	40	52	78	145	52	45	90	240.8	68.5	154	36	107	69	62	3/8
BST-06																3/4
BST-10	85	50	80	96	151	80	60	120	273.3	89	166	49	119	81	74	1-1/4

Note: For detailed dimensions of Solenoid Operated Directional Valves (page 87,88).

Options-Model with Vent Restrictor: A-BST-03, 06, 10



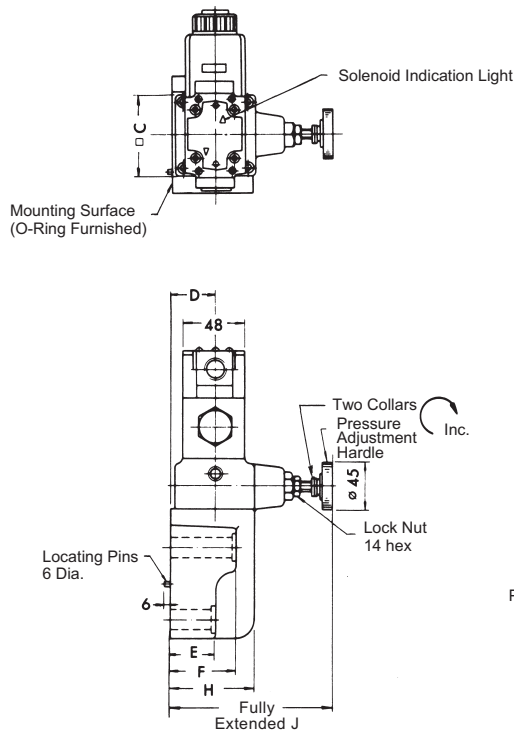
Model No.	P	Y	Z	d
A-BST-03	68.5	270.8	185	137
A-BST-06				
A-BST-10	89	303.3	197	149

For other dimensions, please refer to the dimensions of each model as listed in the table in the upper drawing.

Solenoid Controlled Relief Valves

Max. Pressure 25 MPa

BSG-03,06,10

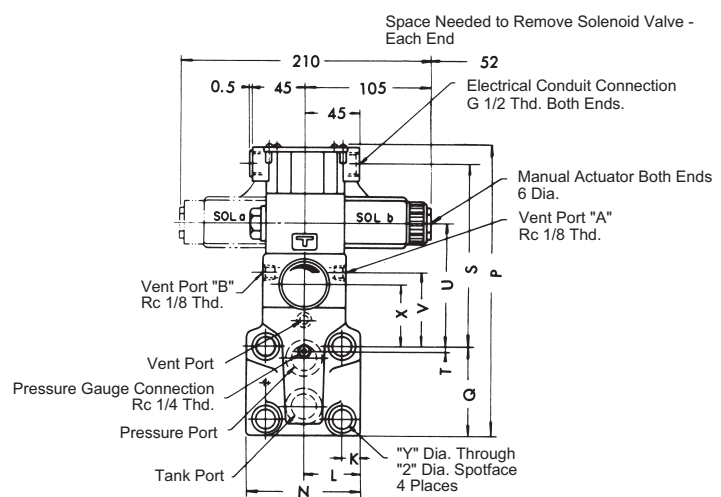


Mounting Surface

BSG-03:ISO 6264-AR-06-2-A-87

BSG-06:ISO 6264-AS-08-2-A-87

BSG-10:ISO 6264-AT-10-2-A-87

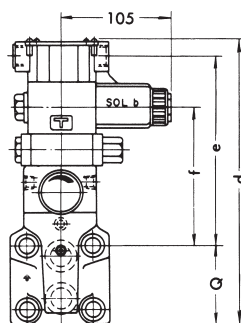


Model No.	C	D	E	F	H	J	K	L	N	P	Q	S	T	U	V	X	Y	Z
BSG-03	75	40	57	78	78	145	14.1	41	82	227.3	77	132	22	85	47	40	13.5	21
BSG-06	75	40	40	60	78	145	17	52	104	251.3	83.5	149.5	4.5	102.5	64.5	57.5	17.5	26
BSG-10	85	45	47	67	84	146	20.7	62	124	285.3	110	157	6	110	72	65	21.5	32

Note: For dimensions of mounting surface, please refer to BGM type sub-plate (page 56).

For detailed dimensions of Solenoid Operated Directional Valve (page 87,88).

Options-Model with Vent Restrictor: A-BSG-03, 06, 10



Model No.	Q	d	e	f
A-BSG-03	77	257.3	163	115
A-BSG-06	83.5	281.3	180.5	132.5
A-BSG-10	110	315.3	188	140

For other dimensions, please refer to the dimensions of each model as listed in the table in the upper drawing.

B

Solenoid Controlled Relief Valves

Max. Pressure 25 MPa

S-BSG-03-06-**-**-**-**-L-51

Normal: Handle Position

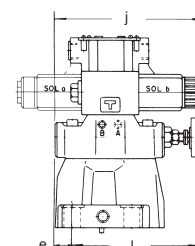
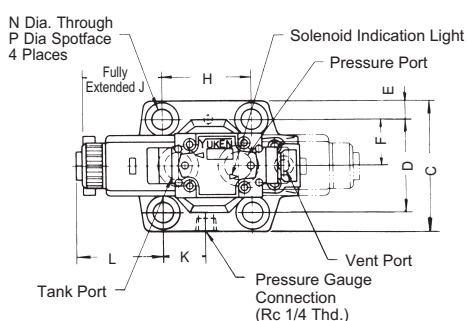
Mounting Surface:

S-BSG-03:ISO 6264-AR-06-2-A-87

S-BSG-06:ISO 6264-AS-08-2-A-87

Opposite Handle Position

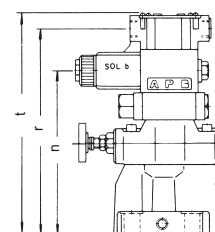
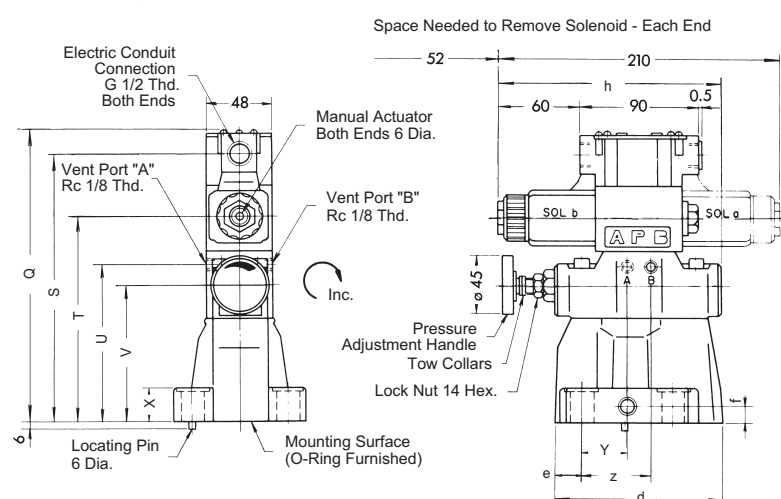
S-BSG-03.06-※-※-※-※- R



For other dimensions, please see the figures shown left.

Options-Model with Vent Restrictors

A-S-BSG-03
06



For other dimensions, please see the figures shown left.

Model No.	C	D	E	F	H	J	K	L	N	P	Q	S	T	U
S-BSG-03	76	53.8	11.1	26.9	53.8	73.6	26.9	78.1	13.5	21	218.3	200	153	117
S-BSG-06	98	70	14	35	66.7	58.8	33.7	63.3	17.5	26	218.3	200	153	117

Model No.	V	X	Y	Z	d	e	f	h	i	j	n	r	t
S-BSG-03	103	21.5	17.1	36.6	106	26.1	13	158	127.9	168	183	230	248.3
S-BSG-06	103	26	31.9	51.4	122	19.3	13	166	142.2	166	183	230	248.3

Note: For dimensions of mounting surface, please refer to BGM-03 type sub-plate (page 56).

For detailed dimensions of Solenoid Operated Directional Valve (page 87, 88).