SOLENOID CONTROLLED RELIEF VALVE(WITH ISO TYPE)

RI Series Solenoid Controlled Relief Valve

150 to 320 ℓ /min 35MPa



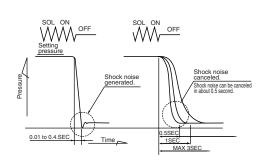
Features

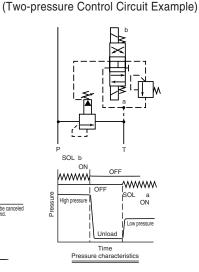
- ①This valve adds a wet type solenoid valve to a balanced type piston type relief valve to form a hydraulic device unload circuit.
- ②The shockless type has an internal structure that prevents shock generated during unloading. This valve can also be used in a pressure relief circuit, and has a maximum adjustment time of three seconds. See the pressure relief circuit example.
- 3A two-pressure control circuit can be

configured by adding a relief modular valve.

Contact your agent for more information.

(Pressure Relief Circuit Example)





Specifications

Model No. Gasket Mounting	Nominal Diameter (Size)	Maximum Flow Rate & /min	Maximum Working Pressure MPa{kgf/cm²}	Pressure adjustment range MPa{kgt/cm²}	Weight kg	Gasket Surface Dimensions	JIS Symbol	Used Solenoid Valve Type
1 RIS-G03-AQ3-**-21 5	3/8	150			6.0	ISO 6264-AR-06-2-A		SS-G01-A3X-**-31
1 RIS-G06-AQ3-**-21 5	3/4	320	35{357}	Type 1: 0.8 to 7 {8.2 to 71.4} Type 3: 3.5 to 25	7.1	ISO 6264-AS-08-2-A	P	33-G01-A3A31
1 RIS-G03-AR3-**-21 5	3/8	150	P, X Ports {35.7 to 255} Type 5: 3.5 to 35 {35.7 to 357}		6.0	ISO 6264-AR-06-2-A		SS-G01-AR-**-31
1 RIS-G06-AR3-**-21 5	3/4	320		[00.7 to 007]		ISO 6264-AS-08-2-A	₽Ŭ — — →	33-dul-An31

Shockless Type

1 RIS-G03-3-F-**-21 5	3/8	150	35{357}	· · ·	{10.2 to 71.4}	7.0	ISO 6264-AR-06-2-A	SS-G01-A3X-**-31
1 RIS-G06-3-F-**-21 5	3/4	320	P, X Ports		8.1	ISO 6264-AS-08-2-A	33-401-43431	

Note) For electrical specifications, see the SS type solenoid valve item on page E-1.

Handling

- To adjust pressure, loosen the lock nut and then rotate the handle clockwise (rightward) to increase pressure or counterclockwise (leftward) to decrease it.
- 2 To adjust the time from onload to unload, loosen the lock nut and rotate the restrictor adjusting bolt clockwise (rightward) to make the time longer, or counterclockwise (leftward) to make it shorter.
- 3 Make sure that tank port back pressure is no greater than 0.2MPa {2.0kgf/cm²}.
- 4 The ** before the design number in the model number of the solenoid valve used shows voltage. See the voltage

- symbols in the model number explanation.
- $\fill \begin{tabular}{ll} \hline 5 \end{tabular} A small control flow rate can cause pressure instability. Use a control flow rate that is at least 8 <math>\ell$ /min. Use a drain type relief valve in the case of a flow rate that is less than the minimum flow rate.
- 6 Use 90 to 110% of rated voltage.
- ☑Use the following table for specification when a sub plate is required. Maximum operating pressure is 25MPa {255kgf·cm²}.

Model No.	Pipe Diameter	Weight kg	Applicable Pump Model		
MRI-03-10	3/8	26	RIS-G03		
MRI-03X-10	1/2	2.0	1110-000		
MRI-06-10	3/4	3.5	RIS-G06		
MRI-06X-10	1	3.5	nio-606		

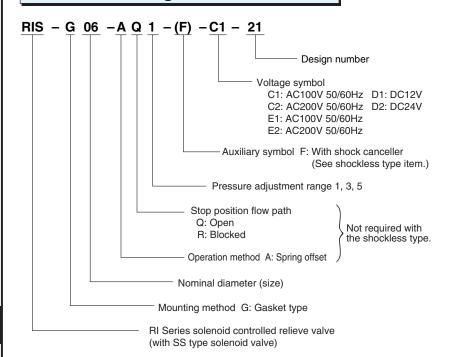
8 The following are the bundled mounting bolts.

Model No.	Bolt Dimensions	Q'ty	Tightening Torque N·m{kgf·cm}
RIS-G03-***-**-21	M12 × 50 ℓ	4	75 to 95 {765 to 969}
RIS-G06-***-**-21	M16 × 60 ℓ	4	190 to 235 {1940 to 2400}

Note) For mounting bolts, use 12T or equivalent.

The coil surface temperature increases if this pump is kept continuously energized. Install the valve so there is not chance of it being touched directly by hand.

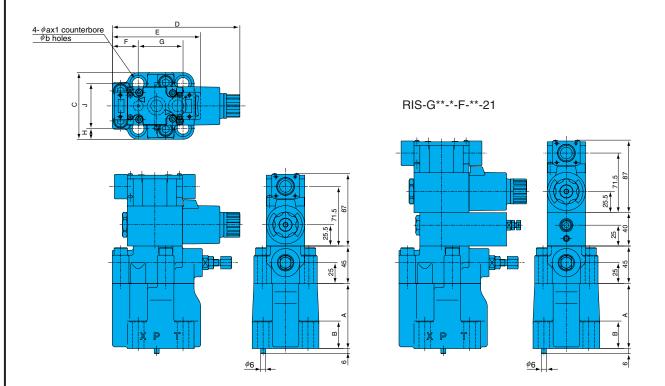
Understanding Model Numbers



Other auxiliary symbols G, N, and Q (R is omitted) can be used (enter them in alphabetic order if there are 2 or more).

Installation Dimension Drawings

RIS-G**-A**-**-21

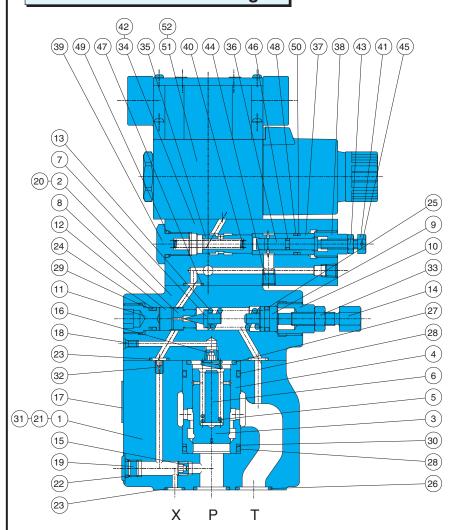


Model No.	Α	В	С	D	Е	F	G	Н	J	а	b
RIS-G03-***-**-21	78	32	80	153 (160)	106	31	53.8	13.1	53.8	20	14
RIS-G06-***-**-21	83	36	100	162 (169)	119	37	66.7	15	70	26	17.5

Note) 1. For gasket surface dimensions, see RI-G**-* on page F-5.

^{2.} Figures in (parenthesis) are for the DC solenoid valve.

Cross-sectional Drawing



Seal Part List (Kit Model Numbers: Main REBS-***, Restrictor Valve I	DFS-01H)
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Component	Part No. Part Name		Nominal Diame	ter/Part Number	Q'ty			
Parts			G03	G06	Q ty			
	22	O-ring	1B-P8	1B-P8	1			
	23	O-ring	1B-P9	1B-P9	3			
	24	O-ring	1B-P10A	1B-P10A	1			
	25	O-ring	1A-P11	1A-P11	1			
Main	26	O-ring	1B-P18	1B-P28	2			
	27	O-ring	1B-G25	1B-P28	1			
	28	O-ring	1B-G30	1B-P32	2			
	29	Backup ring	T2-P10A	T2-P10A	1			
	30	Backup ring	T2-G30	T2-P32	1			
	46	O-ring	1B	-P4	1			
	47	O-ring	1B	-P9	2			
Restrictor Valve	48	O-ring	1B	1				
· a. • 0	49	O-ring	1B	-P12.5	1			
	50	Backup ring	T2	-P10	1			

- Note) 1. O-ring 1A/1B-** refers to JIS B 2401-1A/1B-**.

 2. For the *** part of the kit number, specify the valve size (G03, G06).

 3. The restrictor valve kit is required only when a shockless valve is included.

 4. SS (SA)-G01 pilot valve seal is available separately. For details, see pages E-11

	I =
Part No.	Part Name
1	Body
2	Cover
3	Poppet
4	Sleeve
5	Spring
6	Spacer
7	Poppet
8	Seat
9 10	Plunger
11	Retainer Plug
12	Collar
13	Spring
14	Handle assy
15	Orifice
16	Orifice
17	Plate
17	Flate
Part No.	Part Name
18	Plug
19	Plug
20	Screw
21	Pin
22	O-ring
23	O-ring
24	O-ring
25	O-ring
26	O-ring
27	O-ring
28	O-ring
29	Backup ring
30	Backup ring
31	Screw
32	Choke
33	Nut
34	Body
	i -
Part No.	Part Name
35	Spool
36	Throttle
37	Sleeve
38	Retainer
39	Guide
40	Spring
41	Nut
42	Plate
43	Nut
44	Plug
45	Pin
46	O-ring
47	O-ring
48	O-ring
49	O-ring
50	Backup ring
51	Solenoid Valves

52

Screw