



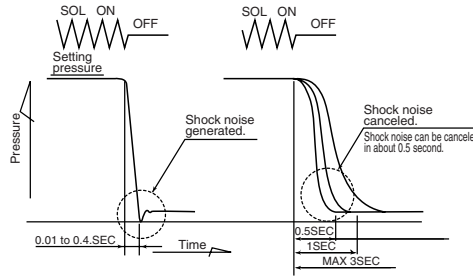
Solenoid Controlled Relief Valve

30 to 380 ℓ /min
21MPa

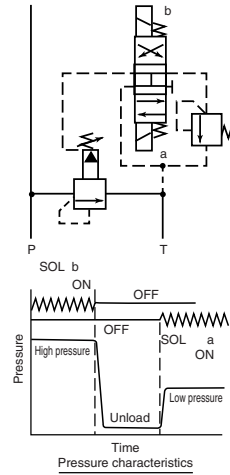
Features

- ① This valve adds a wet type solenoid valve to a balanced type piston type relief valve to form a hydraulic device unload circuit.
- ② The 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.
- ③ A two-pressure control circuit can be configured by adding a relief modular valve. Contact your agent for more information.

(Pressure Relief Circuit Example)



(Two-pressure Control Circuit Example)



Specifications

Model No.		Nominal Diameter (Size)	Maximum Working Pressure MPa(kgf/cm ²)	Maximum Flow Rate ℓ /min	Pressure adjustment range MPa(kgf/cm ²)	Weight kg		JIS Symbol	Used Solenoid Valve Model Number
Screw Mounting	Gasket Mounting					T Type	G Type		
RSS (RSA) -T03-AQ ₃ -** ¹ -15	RSS (RSA) -G03-AQ ₃ -** ¹ -15	3/8	21{214} P, X Ports	80	Type 1 0.8 to 7 {8.2 to 71.4}	3.2	4.5		SS (SA) -G01-A3X-**-31
RSS (RSA) -T06-AQ ₃ -** ¹ -23	RSS (RSA) -G06-AQ ₃ -** ¹ -23	3/4		170		4.0	6.4		
RSS (RSA) -T10-AQ ₃ -** ¹ -23	RSS (RSA) -G10-AQ ₃ -** ¹ -23	1 1/4		380		8.8	10.0		
RSS (RSA) -T03-AR ₃ -** ¹ -15	RSS (RSA) -G03-AR ₃ -** ¹ -15	3/8		80	Type 3 3.5 to 21 {35.7 to 214}	3.2	4.5		SS (SA) -G01-AR-**-31
RSS (RSA) -T06-AR ₃ -** ¹ -23	RSS (RSA) -G06-AR ₃ -** ¹ -23	3/4		170		4.0	6.4		
RSS (RSA) -T10-AR ₃ -** ¹ -23	RSS (RSA) -G10-AR ₃ -** ¹ -23	1 1/4		380		8.8	10.0		

Shockless Type

RSS (RSA) -T03- ₃ -F-**-15	RSS (RSA) -G03- ₃ -F-**-15	3/8	21{214} P, X Ports	80	Type 1 1 to 7 {10.2 to 71.4}	4.2	5.5		SS (SA) -G01-A8XO-**-31
RSS (RSA) -T06- ₃ -F-**-23	RSS (RSA) -G06- ₃ -F-**-23	3/4		170		5.0	7.4		
RSS (RSA) -T10- ₃ -F-**-23	RSS (RSA) -G10- ₃ -F-**-23	1 1/4		380		9.8	12.0		

Note) For information about electrical specifications, see the SS type and SA type solenoid valve items on pages E-1 and E-13.

● Handling

- ① To adjust pressure, loosen the lock nut and then rotate the adjusting bolt 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.
- ⑤ Pressure becomes unstable when at slow control flow rates. Use a flow rate of no less than 8 ℓ /min for the 03, 06 sizes, and 10 ℓ /min for the 10 size.
- ⑥ Use 90 to 110% of rated voltage.
- ⑦ The pressure adjustment range for the high vent type is 1.3MPa {13.3kgf/cm²}. Note that RSS (RSA) -T/G03 is not a high vent type.
- ⑧ Use the following table for specification when a sub plate is required.

Model No.	Pipe Diameter	Weight kg	Applicable Valve Type
MR-03-10	3/8	1.6	RSS (RSA) -G03-*** ¹ -15
MR-06-20	3/4	3.5	RSS (RSA) -G06-*** ¹ -23
MR-06X-20	1		
MR-10-20	1 1/4	8.5	RSS (RSA) -G10-*** ¹ -23
MR-10X-20	1 1/2		

Note) See page relief valve page item on F-3 for dimensions.

- ⑨ The following are the bundled mounting bolts.

Model No.	Bolt Dimensions	Qty	Tightening Torque N·m(kgf·cm)
RSS (RSA) -G03-*** ¹ -15	M10 × 75 ℓ	4	45 to 55 {460 to 560}
RSS (RSA) -G06-*** ¹ -23	M16 × 80 ℓ	4	190 to 235 {1940 to 2400}
RSS (RSA) -G10-*** ¹ -23	M20 × 105 ℓ	4	370 to 460 {3770 to 4690}

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

- ⑩ 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.