

SOLENOID VALVES FOR USE WITH THE MODEL RCW FLOW CONTROL VALVE

GENERAL DESCRIPTION

Releasing solenoid valves are utilized for relieving pressure from the Pressure Chamber allowing the push rod and roller assembly, on the Model RCW Valve, to move off of the clapper assembly and actuate the valve. Typically, releasing solenoid valves are normally closed valves. Once the releasing circuit is energized, the solenoid is moved to its open position allowing water to flow through the valve. The solenoid valve is utilized in conjunction with a Listed releasing fire control panel. During releasing panel selection, panel compatibility with the releasing solenoid valve must be verified. This information can typically be found in the panel manufacturers Installation Operation and Instruction Manual or by contacting the panel manufacturer. Ensure all electrical connections meet the requirements of the local and/or National Electrical Codes.

All of the trim assembly testing performed on the Model RCW Water Control Valve was completed utilizing a releasing solenoid valve with a Cv factor of 2.8. All of the valves listed in Table A have Cv values equal to or greater than 2.8. Choosing a valve with the correct friction factor ensures that the pressure chamber will relieve pressure faster than that which can be supplied through the supply line restriction on all Model RCW Flow Control Valve assemblies.



RELEASING SOLENOID

TECHNICAL DATA

Approvals

- See Table A

Maximum System Working Pressure

- See Table A

End Connections

- 1/2" Female NPT Connections

TABLE A

Manufacturer	Voltage	Pressure Psi (Bar)	Power (Watts)	DC Current (AMPS)	Size	Cv Factor	Model #	Part #	Approvals
Asco	24 V DC	175 psi (12 bar)	10.6 W	0.44 amp (Holding)	1/2" (12.7 mm)	3.0	8210G207	G8219G207	UL/FM CE
Asco	24 V DC	300 psi (20.7 bar)	22.6 W	0.94 amp (Holding)	1/2" (12.7 mm)	4.0	HV432449001	GHV432449001	UL CE
Skinner (1)	24 V DC	175 psi (12 bar)	10 W	0.41 amp (Holding)	1/2" (12.7 mm)	4.0	73218BN4UNLVN0C111C2	G5118026	UL/FM CE
Skinner	24 V DC	250 psi (17.2 bar)	22.6 W	0.83 amp (Holding)	1/2" (12.7 mm)	2.8	73212BN4TNLVN0C322C2	G5118025	UL/FM CE

Note:

¹ Solenoid valve comes standard with all trim arrangements (if necessary) unless otherwise noted.

SOLENOID VALVE SELECTION

CARE AND MAINTENANCE

Solenoid valve should be inspected and tested as described in the individual trim/system datasheets and in accordance with the applicable Inspection Testing and Maintenance Standard (e.g. NFPA 25). The use of pipe sealant should be applied carefully as not to introduce potential debris into the trim piping, adversely affecting operation of the solenoid valve.

If improper operation of the solenoid, check the following: check to see that the valve is free of debris and corrosion, correct activation of the releasing circuit, application of the expected voltage on the releasing circuit. If problem persists call Technical Services.

If sluggish operation or leaking out of the solenoid valve, when no power is being applied to the releasing circuit is present, this indicates that the valve should be cleaned. If cleaning of the valve is required for proper operation of the valve, clean the valve with a mild soap and water.

Only trained personnel should attempt to work on any Model RCW Valve Trim Assemblies. If any portion of the trim, solenoid valve included, is not installed to the applicable technical literature it could render the system impaired or inoperable.

Potential Causes of Improper Operation:

- Check the control circuit voltage. The voltage should be at least 85% of the voltage on the faceplate of the valve.
- If proper voltage is being applied by the control circuit and solenoid valve is not opening, solenoid may have been "burned out" and may need replacing. The circuit should be "open" if the valve is in this condition.

ORDERING INFORMATION

RELEASING SOLENOID

Specify: Releasing Solenoid, Manufacturer, Pressure Rating, PN (see Part # column of Table A)

GLOBE® PRODUCT WARRANTY

Globe agrees to repair or replace any of its own manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).

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