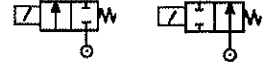


INSTALLATION & MAINTENANCE INSTRUCTIONS

2/2 DIRECT ACTING STRAIGHT THROUGH SOLENOID VALVES
WITH GUILLOTINE TYPE DISC FOR STEAM AND HOT WATER SERVICE
3/8" AND 1/2"

BULLETIN
267



Form No. V6461

DESCRIPTION

Bulletin 267 is a 2-way Normally Closed or Normally Open Guillotine type (Slide) Valve with an epoxy moulded spade plug connection coil, according to ISO 4400 and DIN 43650. Valves with prefix WP (IP65) are provided with a plug-on connector and a gasket.

OPERATION

Normally Closed: When solenoid is de-energised valve is closed. When solenoid is energised, core lifts disc and lines up hole in disc with hole in seat allowing flow through the valve.

Normally Open: When solenoid is de-energised valve is open. When solenoid is energised, core lifts disc and moves hole from alignment with hole in seat causing flow to stop.

INSTALLATION

Check nameplate for correct catalogue number, pressure, voltage, frequency and service.

POSITIONING

Valve must be mounted upright with solenoid above body.

TEMPERATURE LIMITATIONS

The maximum valve ambient temperature is 40°C. Maximum steam temperature is 135°C, the water should not exceed 100°C.

SOLENOID TEMPERATURE

Standard catalogue valves are supplied with coils designed for continuous duty service. When the solenoid is energised for a long period the solenoid becomes hot and can hardly be touched with the bare hand.

This is a safe operating temperature. Any excessive heating will be indicated by the smoke and odour of burning coil insulation.

MAINTENANCE

WARNING: Before making repairs, turn off electrical power and de-pressurize valve.

CLEANING

A periodic cleaning of all solenoid valves is desirable. The times between cleaning will vary, depending on the media and service conditions. In general, if the voltage to the coil is correct, sluggish valve operation or excessive leakage will indicate that cleaning is required.

PIPING

Connect piping so that flow through the valve will follow the directional markings on valve body. Apply pipe compound sparingly to the male fittings only. If applied to the valve threads, it may enter the valve and cause operational difficulty. Pipe strain on valve body should be avoided by proper support and alignment of piping. When tightening pipe, do not use the valve as a lever. A strainer is recommended connected as close as possible to the valve inlet.

IMPORTANT

When the valve has reached the normal operating temperature, re-tighten screws if necessary.

INTERNAL PARTS REPLACEMENT

(Refer to exploded view)

WARNING: Turn off electrical power disconnect coil connector, depressurize valve and proceed as follows:

1. Remove solenoid and unscrew solenoid base sub-assembly from body.
2. Remove pipe adapter by removing 2 screws.
3. Remove adapter gasket, disc spring guide, and disc spring.
4. Remove core spring (spring retainer, upper spring, core spring guide, lower spring), core - disc assembly which can be further disassembled by removing groove pin. Remove bonnet gasket, seat, and seat gasket.
5. All parts are now accessible for replacement.
6. Reassemble in reverse order of disassembly.

NOTE

1. Insert seat, gasket end first, into body, using rubber tool to prevent doing damage to the seat, since pressure must be applied so that seat bottoms in body.
2. When placing spring guide in body, make certain that large diameter end is inserted first.
3. When reassembling pipe adapter make certain not to pinch adapter gasket. Assemble pipe adapter flange evenly by holding thumb square on pipe adapter in order to line up flanges before taking up on screws.
4. Assemble conical lower spring, small diameter end first then assemble spring guide small diameter end first. Place upper spring over large diameter of spring guide and assemble spring retainer.

CORRECTIVE MAINTENANCE CHART

The following is a guide to aid in trouble shooting:

FAILURE	POSSIBLE CAUSE	CORRECTIVE ACTION
A Normally Closed Constr. Valve will not open. Normally Open Constr. Valve will not close	1. Improper Voltage	Check voltage supply. Voltage must be at least 85% of nameplate rating.
	2. Burned-out Coil.	Check for open circuited or grounded coil. Replace coil if necessary.
	3. Damaged Core, Core Tube, or Disc.	Replace per instructions in Internal Parts Replacement paragraph.
B. Normally Closed Constr. Valve will not close. Normally Open Constr. Valve will not open.	1. Broken Core Spring.	Replace per instructions in Internal Parts Replacement paragraph.
	1. Worn Seat	Replace per instructions in Internal Parts Replacement paragraph.
C Internal Leakage	2. Damaged Disc	Replace per instructions in Internal Parts Replacement paragraph.
	3. Broken Disc Spring	Replace per instructions in Internal Parts Replacement paragraph.
	4. Worn or Damaged Seat Gasket.	Replace per instructions in Internal Parts Replacement paragraph.
D External Leakage	1. Worn or Damaged bonnet gasket or adapter gasket	Replace per instructions in Internal Parts Replacement paragraph.

