

TROUBLESHOOTING AND MAINTAINING THE REGAL FLUSH VALVE

1 PROBLEM: *VALVE CLOSSES OFF IMMEDIATELY*

- CAUSE:**
- A) Ruptured or damaged diaphragm.
 - B) Enlarged by-pass orifice from corrosion or damage.
- SOLUTION:** A&B) Install new diaphragm or inside parts kit to correct above problems and update flushometer.

2 PROBLEM: *LEAKING AT HANDLE ASSEMBLY*

- CAUSE:**
- A) Handle seal may have deteriorated.
 - B) Handle gasket has been omitted.
 - C) Valve is old style and handle packing is worn.
- SOLUTION:**
- A) Install new seal or handle repair kit.
NOTE: The handle seal will easily slide right onto the bushing if it is wet.
 - B) Install handle gasket.
 - C) Install handle repair kit.

3 PROBLEM: *LENGTH OF FLUSH TOO SHORT*

- CAUSE:**
- A) Diaphragm assembly and guide assembly are not hand tight.
 - B) Enlarged by-pass orifice from corrosion or damage.
 - C) Black urinal relief valve in closet flushometer.
 - D) Low consumption kit installed in non-low consumption fixture.
 - E) Handle assembly is worn.
- SOLUTION:**
- A) Screw the two assemblies hand tight.
 - B) Install diaphragm or inside parts kit.
 - C) Install proper white closet relief valve.
 - D) Replace with proper inside parts kit .
 - E) Install handle repair kit.

4 PROBLEM: *LENGTH OF FLUSH TOO LONG OR FAILS TO CLOSE OFF*

- CAUSE:**
- A) Relief valve is not seating properly or by-pass orifice is clogged because of foreign material, or by-pass orifice is closed by an invisible gelatinous film from "overtreated" water.
 - B) Line pressure has dropped and is not sufficient to force relief valve to seat.
 - C) White closet relief valve has been used in a urinal valve.
 - D) Inside cover is cracked or damaged.
- SOLUTION:**
- A) Disassemble the working parts and wash thoroughly.
NOTE: Size of the orifice in the by-pass is of utmost importance in the proper metering of water into the upper chamber of the valve. Do not enlarge or damage this orifice. Replace inside kit if cleansing does not correct problem.
 - B) Shut off all control stops until pressure has been restored, then open them again.
 - C) Replace with black urinal relief valve.
 - D) Replace the inside cover.

5 PROBLEM: *INSUFFICIENT VOLUME OF WATER TO ADEQUATELY SIPHON FIXTURE*

- CAUSE:**
- A) Control stop not open enough.
 - B) Urinal valve parts inside a closet valve.
 - C) Low consumption valve installed on a non-low consumption valve fixture.
 - D) Water saver kit installed in old, non-water saver bowl.
 - E) Inadequate volume or pressure at supply.
- SOLUTION:**
- A) Adjust control stop for desired delivery of water.
 - B) Replace inside urinal parts with proper closet valve parts from EQUIPARTS.
 - C) Replace with proper inside parts kit.
 - D) Position refill head on guide so that side 1 is in up position.
 - E) If no gauges are available to properly measure supply pressure or volume of water at the valve, then remove the relief valve from the inside parts kit, reassemble the valve, and open the control stop.
If the fixture siphons, more water volume is required. If a 3.5 GPF inside parts kit is installed in the valve, then first flip the refill head (under the diaphragm) to obtain a 4.5 GPF volume. If this volume is still inadequate, remove the flow ring from the guide to obtain a 6.5 GPF volume. If additional flow is still required, try a low pressure guide kit.
If fixture does not siphon or if a low consumption fixture is installed, or if the above steps do not prove satisfactory, steps must be taken to increase the pressure and/or supply.

6 PROBLEM: *LEAKING AT TOP OF VACUUM BREAKER*

- CAUSE:**
- A) Rubber vacuum breaker boot or gasket has deteriorated.
- SOLUTION:**
- A) Install new vacuum breaker repair kit.

7 PROBLEM: *LEAKING AT BOTTOM OF VACUUM BREAKER TUBE OR AROUND COUPLING*

- CAUSE:**
- A) Coupling gaskets have deteriorated.
 - B) Spud washer and/or spud have deteriorated.
- SOLUTION:**
- A) Install proper new coupling gasket kit.
 - B) Install proper new spud washer and/or complete new spud assembly.

8 PROBLEM: *LEAKING BETWEEN VALVE AND CONTROL STOP*

- CAUSE:**
- "O" ring and/or locking ring have deteriorated.
- SOLUTION:**
- Replace "O" ring and locking ring simultaneously.

9 PROBLEM: *CHATTERING NOISE IN FLUSHOMETER*

- CAUSE:**
- A) Diaphragm has been installed upside down.
 - B) Inside cover has become distorted from wear, freezing or abuse.
- SOLUTION:**
- A) Replace the segment diaphragm to the proper position as instructed by markings on the diaphragm.
 - B) Replace inside cover.

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