

ABSTRACT**MAINS PRESSURE FLUSHER VALVE**

A mains pressure valve which comprises a main chamber (12) having an inlet chamber (11) for fluid and an outlet for fluid; a non-return valve (36) located downstream of the outlet and adapted to provide resistance to fluid flowing therethrough; a piston (17) located in the main chamber (12) which is movable into and out of sealing engagement with the outlet of the main chamber and which defines above it an upper portion (40) of the main chamber (12) and having an internal passageway (20) which communicates between upper portion of the main chamber (40) and the inlet (11); a port (35) in the upper portion (40) which permits fluid to flow therethrough; and actuation control (42) associated with the port to regulate the flow of fluid through the port. Upon actuation fluid in the upper portion (40) drains through port (35) allowing piston (17) to rise and mains pressure fluid passes from inlet chamber (11) through main chamber (12) and out discharge chamber (14). Non-return valve (36) provides some resistance to the passage of fluid to reduce the vacuum force created by the passage of fluid at mains pressure. Fluid bleeds via flow valve (21) and (22) into upper port (40) and as port (35) is closed piston (17) closes the valve after a predetermined period.

Fig 1