

ABSTRACT OF THE DISCLOSURE

PRESSURE REDUCING DEVICE, HOT AND COLD WATER SUPPLY SYSTEM
USING SAID PRESSURE REDUCING DEVICE, AND METHOD OF SELECTING
THE PRESSURE REDUCING DEVICE USED IN SAID SYSTEM

The invention provides a pressure reducing device, hot and cold water supply system using the same, and a method of selecting the pressure reducing device used in said system, thereby supplying water at a stable pressure even when the consumption amount varies. In the invention a main valve is provided, wherein a master valve 17, which opens and closes a valve port 11 that communicates with a valve-inlet pressure chamber 8 and a valve-outlet pressure chamber 9 that are provided in the interior of the main body 2, is urged in the closing direction by means of a spring 19 and a diaphragm 13 that is coupled with master valve 17 partitions a diaphragm chamber 14, which is provided at the rear side of diaphragm 13, and valve-inlet pressure chamber 8, and a pilot pipeline 3, having a pressure reducing valve 4 interposed between valve-inlet pressure chamber 8 and valve-outlet pressure chamber 9, is disposed and in pilot pipeline 3, by connecting a branch pipeline 3a, installed at the valve-inlet side of pressure reducing valve 4, to diaphragm chamber 14 and by disposing a restriction means 20 upstream of the branching point, the amount of water that is passed from valve-inlet pressure chamber 8 of main body 2 to valve-inlet pressure chamber 25 of pressure reducing valve 4 and diaphragm chamber

14 is restricted by means of restriction means 20, the pressure in diaphragm chamber 14 is made to drop to thereby cause main body 2 to open when pressure reducing valve 4 is opened by the consumption of water, thus causing the same amount of water as the consumption amount to pass through main body 2 and thereby preventing the valve-outlet pressure from dropping greatly.

(Figure 1)