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ABSTRACT

WATER HAMMERING PREVENTION DEVICE



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A water hammering prevention device for completely preventing water hammering is provided, wherein a water hammering prevention device 1 comprises an outer box 2 having concentric flow paths 8 for an inlet 6 and an outlet 7 and a drain port 9 in the midstream section 8b of the flow path 8; an inner tube member 3 having a diaphragm 14 on its periphery dividing the inside of said outer box 2 into an upstream section 8a and an area consisting of a midstream section 8b and a downstream section of the flow path 8, wherein said inner tube member 3 slidably fits into the upper section 8a; a relief valve 4 provided on the end face of the downstream side opening of said inner tube member 3, wherein said relief valve is capable of moving toward or away from a valve seat 11 located on the periphery of a valve port 10, which is provided between the midstream section 8b and the downstream section 8c, and is energized by a relief valve spring 17 toward the valve opening direction; and a check valve 5 provided inside the inner tube member 3 to prevent fluid from flowing backward from the downstream side, and discharge pressurized fluid generated by water hammering to the outside via drain port 9.

(Figure 1)