

ABSTRACT

Direct Touch Type Metal Diaphragm Valve

With a direct touch type metal diaphragm valve, the durability of the valve, that is to say, the ensured number of continuous open/close operations of a valve, is substantially increased under conditions that an appropriate flow rate coefficient C_v is maintained, and changes of the afore-mentioned C_v value over time become less by means of the deformation of a valve seat being restricted.

With a direct touch type metal diaphragm valve, the afore-mentioned metal diaphragm is formed in a round, reverse-dish shape by laminating a plural number of thin stainless steel plate and thin Nickel Cobalt alloy plate, and its center part is bulged upward, and the maximum valve stroke of the valve is regulated to be 55 to 70% the distance of the maximum bulge height Δh of the afore-mentioned metal diaphragm.



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