The Webster High-pressure Sylphon Trap

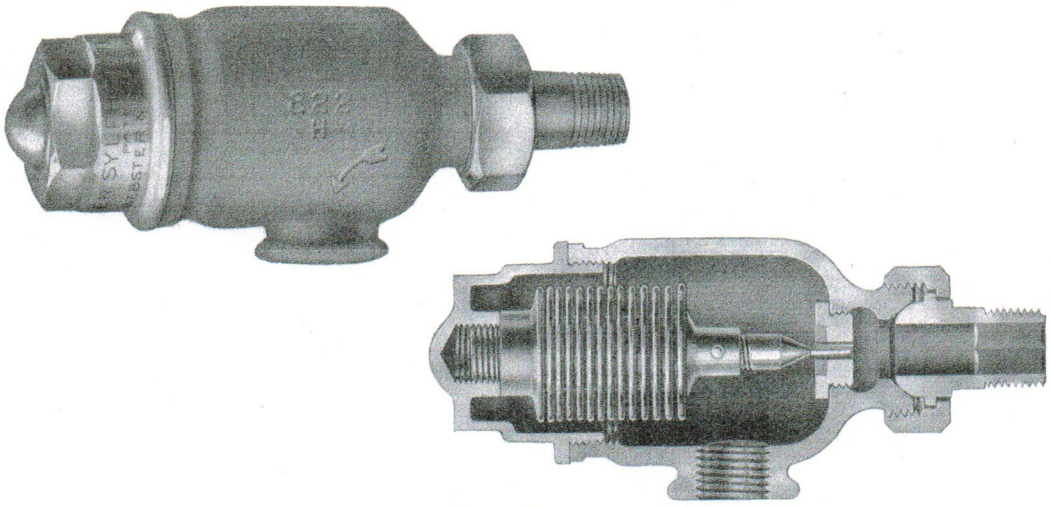

Fig. 24-77. The Webster High-pressure Sylphon Trap

This trap is in many respects like the standard Webster Sylphon Trap described on Page 242. The body construction is the same except that the position of inlet and outlet opening and the union connection of the inlet are reversed.

As the trap must operate at comparatively high steam pressure with resulting high temperature, the thermostatic member or bellows is located outboard of the valve. The sylphon bellows, surrounded in this position with the cooler vapor from the discharged condensate at atmospheric pressure, is extremely sensitive to the much higher temperature of the steam, and consequently acts quickly and positively to close the valve against steam passage through the trap.

It is particularly important when arranging pipe connections that the manufacturer's directions shall be specifically followed.

In consequence also of the higher pressure, the valve piece and the seat are constructed of monel metal, which successfully resists wire-drawing and its accompanying wear.

The Webster High-pressure Sylphon Trap is made in three sizes and for two pressure ranges—Class 2 for pressure from 15 to 50 lb. per sq. in., and Class 3 for pressures to 100 lb. per sq. in.

Application diagrams for this device are shown in Chapters 18 and 20.

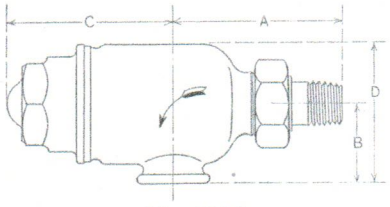

Fig. 24-78

Table 24-22. Dimensions of Webster High-pressure Sylphon Traps

SIZE	A	B	C	D
½"—822	3⅜"	1⅝"	3¼"	2¾"
¾ —833	4 1/16	2⅛	2¾	3⅞
1 —844	4 5/16	2½	3¾	4½