**Challenge:**
Through a major engineering firm located in North East USA, home to numerous Pharmaceutical Companies, DFT was contacted to come up with a check valve solution for a waste drain. It was important that the check valve meet the following criteria: Sanitary connections, ability to steam clean in place, low cracking pressures, and a tight shut off.

The check valve would be used for medical non-corrosive waste that would be pumped through a drain to a waste drain, with no more than 10 psig at temperatures up to 300°F and low flow of 3 GPM. The line is then flushed with utility water into the waste inactivation line with a duration of 10 minutes flush at 5 GPM. The line is then steam sanitized with clean steam and condensate forced into the waste inactivation line at 330°F at about 30 psi for about 60 minutes. The line is then air dried with compressed air for about 30 minutes at about 20 PSI. This procedure is repeated at least 3 times a day.

**Solution:**
A DFT® 2” model DSV® Check Valve was used to meet the criteria. It is a non-slam spring-assisted check valve designed to prevent flow reversal in industries with strict cleanliness codes. The 2” DSV can be used in a Vertical Position, able to be equipped with a .1 psi cracking spring, is steam cleanable, and is a full body valve with Tri-clamp connections. This check valve was able to withstand the frequent cycles and has been in operation since 2009.

Note: A horizontal valve is available for horizontal lines requiring a self draining valve.

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**Contact DFT for a solution to your problem.**

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