

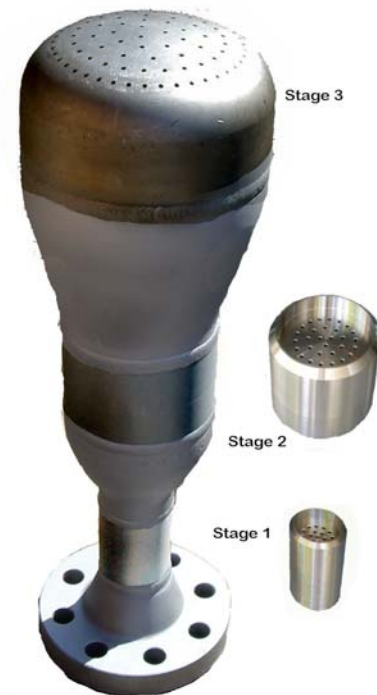
## Model D800 High Pressure Silencer

During a power plant startup or shutdown, steam is usually released to atmosphere from the drum and other piping systems using control vent valves. In addition to generating unacceptable noise levels, the valves are subjected to severe pressure drops. One way to reduce these problems is to place a series of multi-hole, diffusers downstream of the valve.

By using a Multi-stage, Multi-Port Vent Diffuser System downstream of the vent valve :

- The pressure is reduced in several stages within the piping system before the steam reaches the exit thus greatly reducing the exit noise .
- The back pressure on the valve reduces the valve pressure drop and therefore valve noise and valve maintenance are greatly reduced.
- Each Vent Diffuser stage is engineered to prevent choked flow thus preventing the noise-generating shock waves.
- By using multiple holes at each stage, the peak noise frequency is shifted higher than the pipe's ring frequency thus reducing the potential for damaging pipe vibrations.
- Unlike Stacked-Plate diffusers, the holes in the Vent Diffuser are sized to reduce the possibility of clogging.
- Unlike Stacked-Plate diffusers, there is no impingement on metal surfaces with the Vent Diffuser System.
- Unlike conventional Muffler-Silencers, a Vent Diffuser System is custom-designed to produce a lightweight, compact arrangement,

- greatly reducing structural requirements
- Vent Diffuser Systems are constructed of the highest quality 304 or 316 SS and are built ruggedly to ensure a long and trouble free life.
- There are no pressure or temperature limits.
- Noise reductions in excess of 20 dBA can be achieved.
- Diffusers can be furnished for socket welding, butt welding or flanging.



3- Stage, 6x2 D800 Silencer



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