

Silencers

<u>Silencer</u> is a device used to reduce unwanted noise created by gas or steam flow in a pipeline. The noise produced is a combination of shock noise suddenly generated by the rapid reduction in pressure across the relief device and the noise created by the turbulent flow of gas.

<u>General Usage</u>	Typical Applications in Industries
They can reduce unwanted noise created by gas or steam flow in a pipeline discharging directly into the atmosphere (vent silencers) or discharging to another equipment or piping (inline silencers)	In <u>CHP plants, power plants</u> , <u>oil and gas industries</u> and <u>chemical plants</u> to Reduce the noise of:
<u>Advantages</u>	 Simple installation Economical Low maintenance cost Simple and compact No moving parts working with all types of gases Long lifetime Safe and reliable operation Manufactured from various materials
<u>Applicable Materials</u>	 Carbon Steel Stainless Steel Low Alloy Steel

Design Codes/Standards	<u>Quality Assurance</u>
✤ ASME Sec. VIII, div. 1	
✤ ASTM E477	

<u>Kara Sanat Silencers</u>	 Custom design
Advantages:	 Superior acoustic performance
	 Lighter, less space & support structure
	♦ Noise reduction of high flow rates with high pressure and
	temperature
	 No limit of operating pressure, temperature and flow rate
	Producing as sliding nozzle type or expansion joint to eliminate
	nozzle loads



Kara Sanat SilencersTypes:Specifications of one TypeItemProjectPurchaserNoise Source	 <u>Vent Silencer:</u> Applicable when gas or steam flow in a pipeline discharges directly into the atmosphere. Both vertical and horizontal installation is possible. <u>Inline Silencer:</u> Applicable when gas or steam flow in a pipeline discharges to another equipment or piping. Both vertical and horizontal installation is possible. 									
Each Valve Upstream Pressure	bara	106	109	102	100	4				
Each Valve Upstream Temperature	°C	316	316	528	528	380				
Total Flow Rate	kg/hr	255852	2				33.4			
Discharge Pressure	bara	1								

Previous Projects

Equipment photos / Operation photos / Applications photos