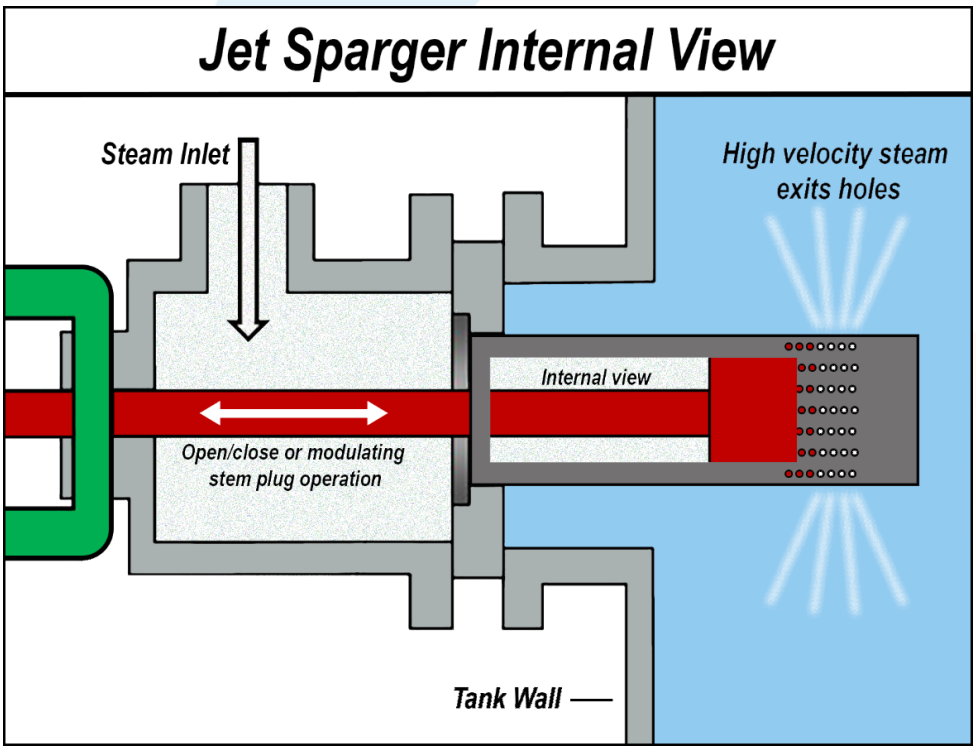
J-Series Jet Sparger

Patent Pending

- **Tank Heating:** PSX Jet Sparger is designed to mount on a tank or vessel for fluid or slurry heating applications.
- **Inline Heating:** PSX Jet Sparger is designed to be mounted in your existing process piping for continuous water or slurry heating applications.
- **Operation:** Modulating diaphragm **or optional** Open/Close air cylinder control the flow of steam through the Jet Sparger.
- **Control:** Plant air signal of 60 psig required for operation.
- **Temperature Control:** Integrates well with customers' temperature control loop.
- **Compact design** suitable for minimal installation space requirements. Can be installed in any orientation.
- **MOC:** Standard materials of construction are carbon steel and 316SS or special alloys upon request.
- **Connection:** Standard 150 psig RF flange for steam and tank connection. 300 psig available as an option.
- **Single or Multiple** unit configurations.

Features & Benefits

High velocity steam delivery ensures complete mixing of steam, reducing occurrences of vibration, and saves energy losses from uncondensed steam escaping. Integral stem plug eliminates need for steam pressure control valve. Can be installed in your existing tank flange, or simply by adding a flanged inlet to your process piping.



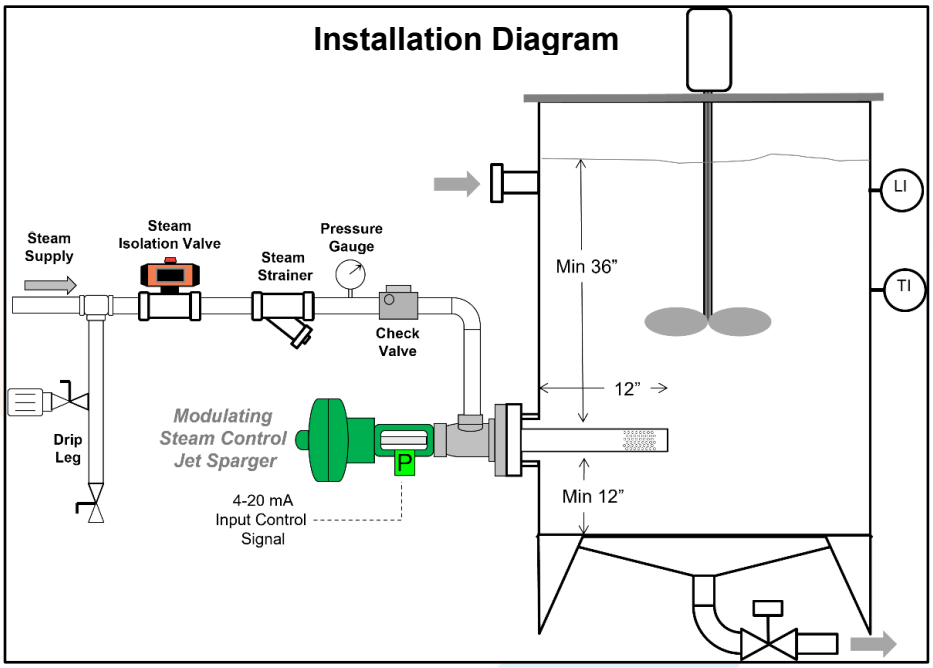
How It Works

The **ProSonix™ J-Series Jet Sparger** is designed for water and slurry heating for both tank and inline applications. The unique design of internal steam control allows the PSX Jet Sparger to deliver high velocity steam to promote rapid condensation and mixing of the steam. An internal stem plug opens and closes to inject steam through the engineered diffuser.

J-Series - Available Configurations

On/Off Operation - The dual acting air cylinder (ATO/ATC) is used in applications where on/off service is most appropriate.

Modulating - The modulating actuator allows for linear steam flow control and is used in situations where temperature control is most important. The Jet Diffuser comes in extension lengths from 12” – 36” for tank or large pipe/high flow applications.



J-Series Connections & Steam Flow Capacities						
Model	Steam Inlet	Pipe/Tank Flange Connection	PSX Jet Sparger Diameter	Typical Minimum Pipe diameter	Steam Capacity @ 30 PSIG (pph)	Steam Capacity @ 100 PSIG (pph)
PSX100-J	1.0" NPT	3.0"	1.5"	3”	870	2,365
PSX200-J	2.0" NPT	4.0"	2.375	4”	2,180	6,073
PSX300-J	3.0" RFF	4.0"	3.5"	6”	5,295	14,600
PSX400-J	4.0" RFF	6.0"	4.5"	8”	9,550	26,340
PSX600-J	6.0" RFF	8.0"	6.5"	10”	18,500	51,100

Common Applications

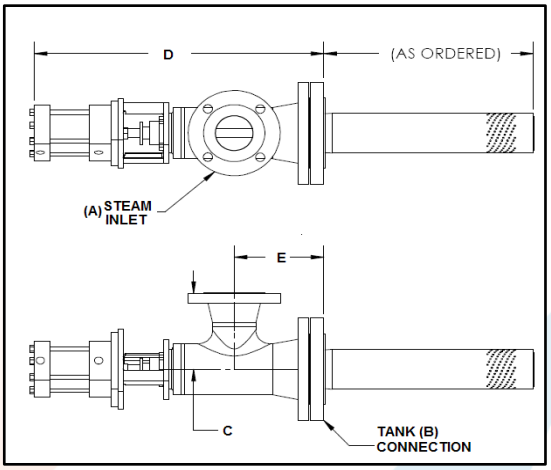
- Tank or Vessel Steam Sparging
- Continuous inline heating
- Water, slurry or sludge heating
- Boiler Feedwater Pre-heating
- Boiler Deaerator Tank Heating
- CIP tank heating
- Supplemental Hot Water Needs
- Seasonal freeze-up prevention
- Large Pipe/Small Temp Needs
- Reactor Sparging
- Chemical Mix Tanks
- Vent or waste steam recovery

J-Series – On/Off Configuration

Dimensions are for reference only and not for construction. Please contact ProSonix for current dimensional print.

For Additional Information, visit
pro-sonix.com

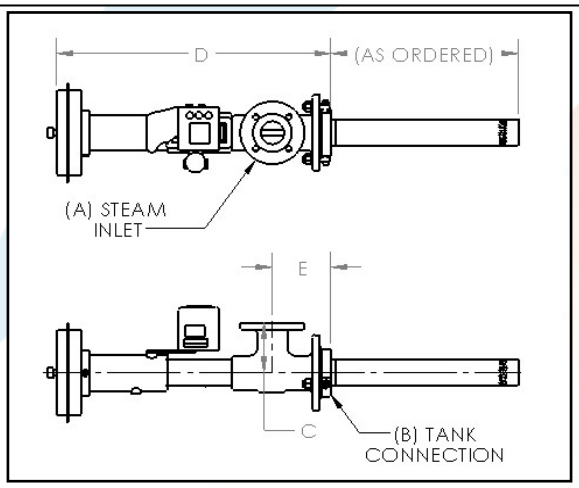
ProSonix J-Series On/Off Dimensions



Model	A	B	C	D	E
PSX100-J	1” NPT	3” RFF	3.12”	20.25”	5.5”
PSX200-J	2” NPT	4” RFF	3.75”	21”	6”
PSX300-J	3” RFF	4” RFF	6.7”	23.6”	7.3”
PSX400-J	4” RFF	6” RFF	8.4”	29.3”	9.5”
PSX600-J	6” RFF	8” RFF	10.2”	35.4”	14.5”

J-Series – Modulating Configuration

ProSonix J-Series Modulating Dimensions



Model	A	B	C	D	E
PSX100-J	1” NPT	3” RFF	3.12”	16.0”	4.1”
PSX200-J	2” NPT	4” RFF	3.75”	32.6”	5.5”
PSX300-J	3” RFF	4” RFF	6.7”	35.3”	7.5”
PSX400-J	4” RFF	6” RFF	8.4”	46.1”	9.0”
PSX600-J	6” RFF	8” RFF	10.2”	48.7”	9.3”

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