

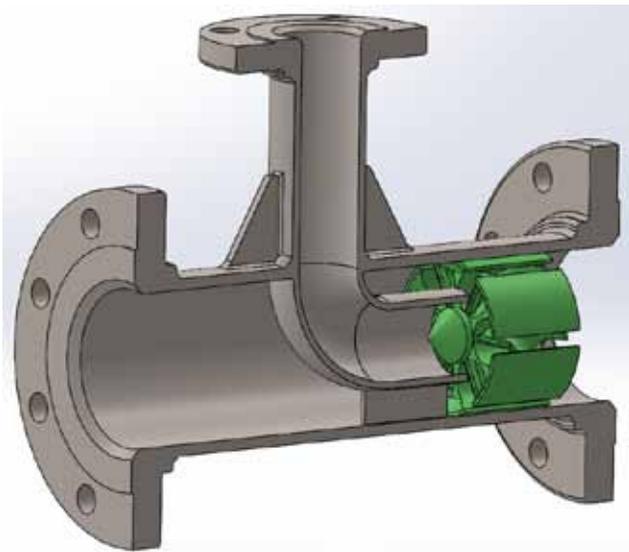
- **SIMPLE IN-LINE INSTALLATION**
- **RUGGED DESIGN**
- **QUIET OPERATION**

MXR "SH" Series for Direct Steam Injection Heating

The main benefits of product heating by direct steam injection are well established. These include high heating efficiency - close to 100% - and low capital cost. Most conventional steam injectors cannot be installed directly in-line with existing product flow pipes and flange sizes. They require major lay-out modifications.

MXR "SH" series direct steam heaters offer a better way to directly heat water-like products. They offer unique features not found in conventional units such as:

- In-line main product flow. Product inlet and outlet connections are close coupled coaxially for ease, layout and installation.
- Quiet operation. Elimination of water hammer reduces operator fatigue and enhances safety and longer operating life.
- Inlet and outlet flanges are the same. No need to adapt the exist product flow line to another size of flange or pipe.
- Rugged mechanical design. No small holes or apertures that can plug the internal structure.
- Short length and light weight makes installation possible in constrained spaces.
- Creates minimal pressure drop
- Broad operating range
- No moving parts
- Cost effective



The MXR Steam Heater

Steam Heater Applications

Direct in-line steam injection of water-compatible products has been common industry practice for well over 100 years. The MXR steam heater's near 100% heating efficiency makes this process very attractive in a variety of applications:

- Low and Medium Consistency Pulp Stock (1% to 12% Consistency)
- Water & Water-Compatible Fluids
- Continuous Digesters
- Black/Green Liquor
- Starch Cooking
- White Water

Benefits of an MXR Steam Heater

Short Length

- The length of a typical MXR Steam Heater is less than three pipe diameters and standard units are available from 2 inches to 24 inches in diameter.

Smooth Operation

- No Vibration prevents system damage that may occur with other devices.
- Low Noise Levels means our unit is safe for nearby personnel.

Broad Operating Range

- Functions under a wide range of temperature requirements.
- Handles high turn-up and turn-down of flow rates.

No Moving Parts

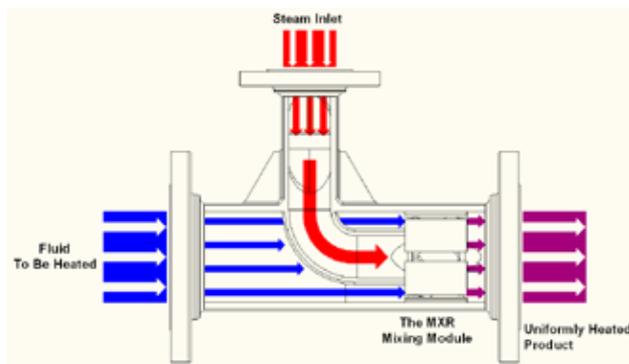
- MXR steam heaters are maintenance free.

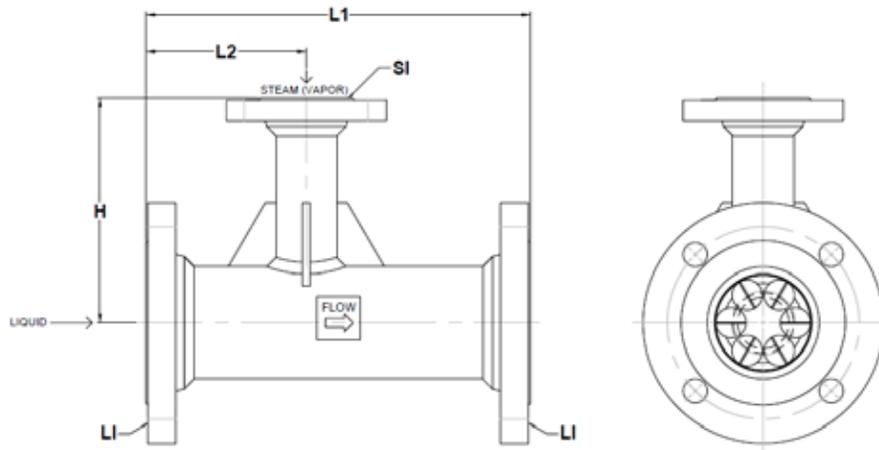
Cost Effective

- Will pay for itself in 90 days or less.

Creates Minimal Pressure Drop

- Results in high mixing efficiency.





LINE SIZE, NPS	MODEL NO.	LI, IN.	SI, IN.	L1, IN.	L2, IN.	H, IN.	WT, LB.
2"	SH - 2.0 - 1.0	2	1	10	4	5	15
3"	SH - 3.0 - 1.5	3	1 1/2	12	5	7	30
4"	SH - 4.0 - 2.0	4	2	15	6	8	50
6"	SH - 6.0 - 3.0	6	3	17	7	11	120
8"	SH - 8.0 - 4.0	8	4	23	8	14	200
10"	SH - 10 - 4.0	10	4	30	10	14	300
10"	SH - 10 - 6.0	10	6	30	10	21	320
12"	SH - 12 - 6.0	12	6	32	10	21	450
14"	SH - 14 - 8.0	14	8	37	12	26	620
16"	SH - 16 - 8.0	16	8	37	12	26	780
24"	SH - 24 - 12	24	12	62	16	39	1360

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