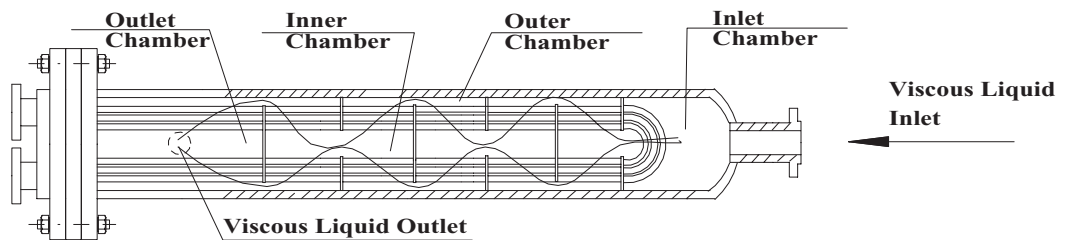


## Baffled "U-Tube" Heat Exchangers for Highly Viscous Liquids Series "BEST"

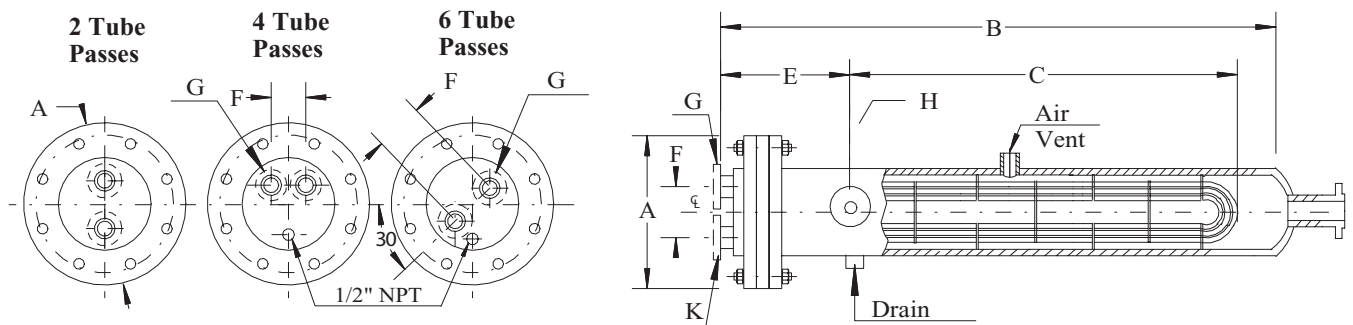
<b>Typical Applications</b> Syrup Heaters Asphalt Heaters Food Processing	To have the capacity to heat _____ gpm of _____ in the shell from _____ F to _____ F using _____, entering at _____
Easy removal of tube bundle Unaffected by thermal expansion	Unit to be constructed in accordance with ASME requirements. ASME Stamp is (not) required. Unit to have no more than _____ ft. of length and _____ psi pressure drop in the shell and _____ psi in the tubes.



The Alstrom "BEST" Heat Exchanger is designed to heat asphalt, syrup and other highly viscous liquids with steam, hot water or thermal fluid. Usually, the initial viscosity of these liquids is extremely high, complicating their transfer from a storage tank to the processing equipment. The viscosity is reduced with the temperature rise in the heat exchanger, but the pressure drop may remain extremely high. The "BEST" heater has minimal pressure drop due to proper flow. Because the inlet chamber is free of tubes the pressure drop is minimal.

The flow is divided into upstream and downstream flows, reducing the liquid velocity by half. After heating by tubes, the flows enter the outer chambers, which are created by the outer tube rows and the shell. The flows enter the next chamber without the friction resistance of tubes, resulting in a reduced pressure drop.

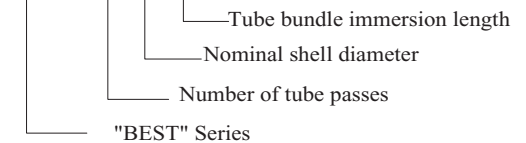
The liquid flows are directed to cross the tubes, improving heat transfer.



Due to extreme variety of possible performance requirements and transport properties of liquids these heaters are manufactured only by custom design.

Complete model number as per the following example:

**Best-2-10-12**

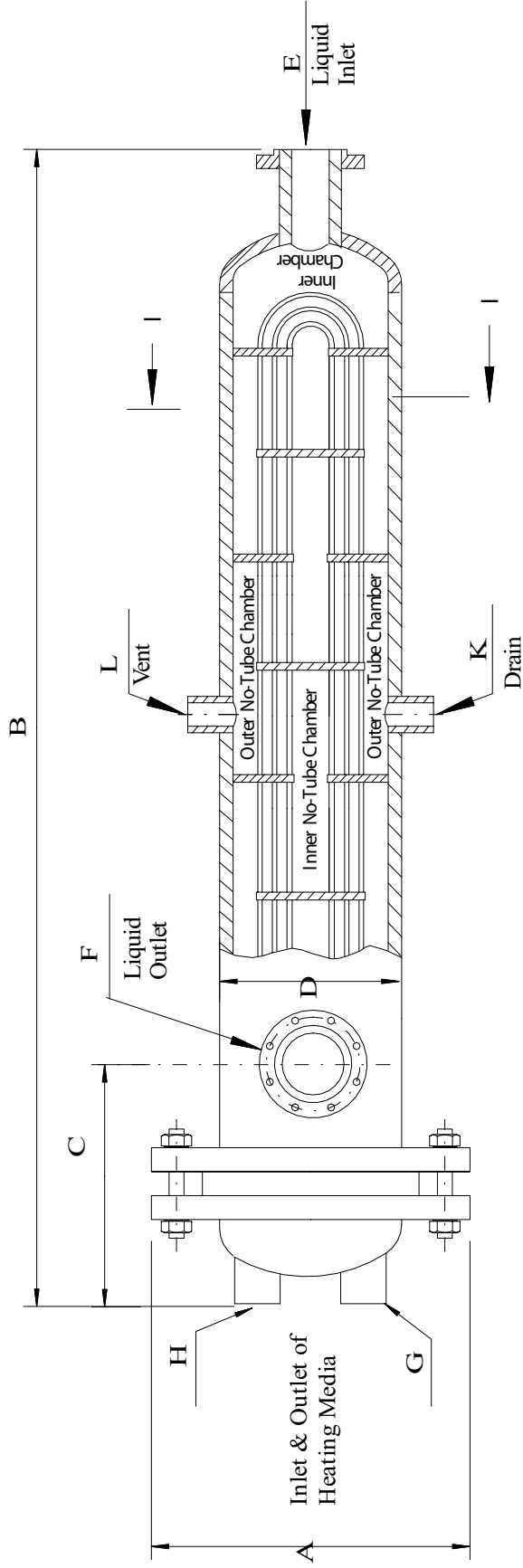


Design Pressure & Temperature	Side	Standard	Customized
	Shell	150 psi @ 400 F	
Tube	150 psi @ 400 F		
Head	Carbon Steel, Stainless Steel		
Shell	Carbon Steel, Stainless Steel		
Tubesheet	Carbon Steel, Stainless Steel		
Tubes O.D. 5/8", 3/4", 1"	Stainless Steel 304, 316		

\* - Other materials and working conditions can be provided.  
- Legs can be supplied when specified.

\* - All heat exchangers are designed and manufactured according to ASME Code, Section VIII, Div.1. ASME U-1 form, stamp, and N.B. number are provided upon request for an additional cost.

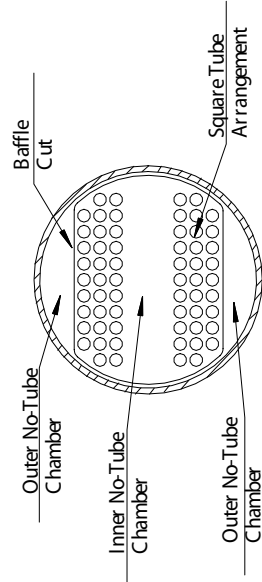
\* - The heaters have an one year guarantee against failure caused by materials or workmanship, but not against gasket failure or damage caused by corrosion, water hammer, excessive pressure, temperature or any other factor beyond the manufacturer's control.



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In order to prevent contamination of the viscous liquid by heating media the tubes are welded to the tubesheet. Seal TIG weld provides the best tube - to - tubesheet joint . ASME Code weld joint efficiency equals 1.

Due to extreme variety of possible performance requirements and transport properties of liquids these heaters are manufactured only by custom design.



**THE ALSTROM CORPORATION**  
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**CUSTOM DESIGNED BAFFLED "U-TUBE" HEAT EXCHANGER FOR HIGHLY VISCOUS LIQUIDS "BEST"**

A	B	C	D	E	F	G	H	K	L

SIZE	DWG. NO.	Rev.
		0
SCALE	RELEASE DATE	SHEET