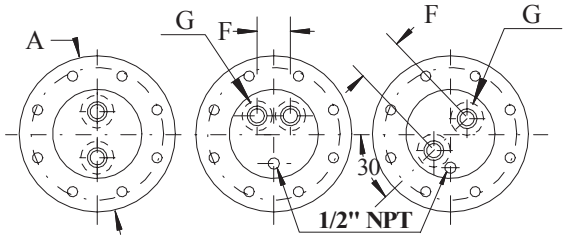
THE ALSTROM CORPORATION
1408 Seabury Ave. Bronx, NY 10461 tel 718.824.4901 fax 718.409.3605 • alstromcorp.com

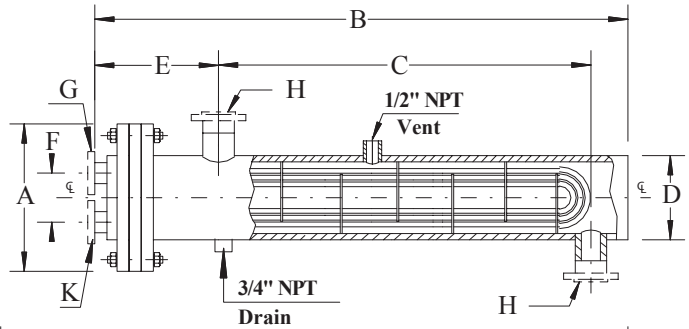
Baffled "U-Tube" Heat Exchangers for Viscous Liquids Series "HST"

Typical Applications	To have the capacity to (heat) (cool)_____gpm of_____in the (shell) (tubes)
Fuel oil heaters Lube oil coolers	from_____F to_____F using_____, entering at_____
Easy removal of tube bundle Unaffected by thermal expansion	Unit to be constructred 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.

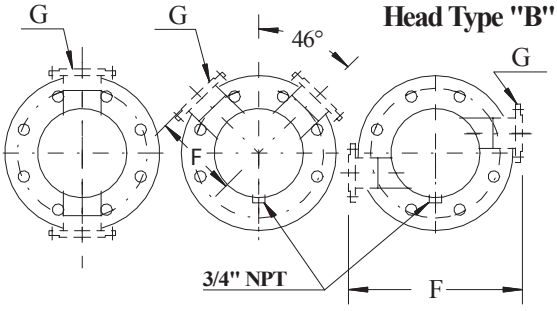
Bonnet Head "A"

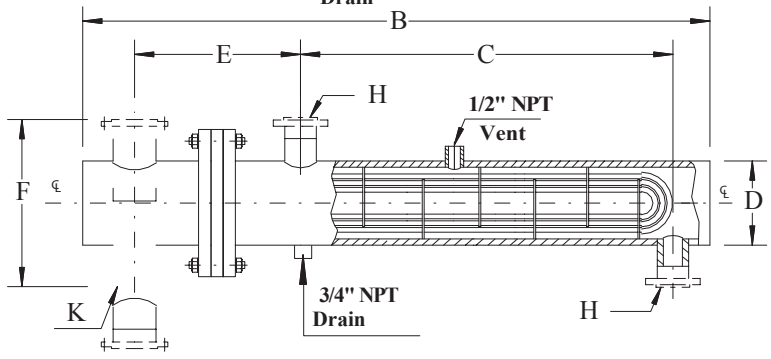


2 Passes 4 Passes 6 Passes

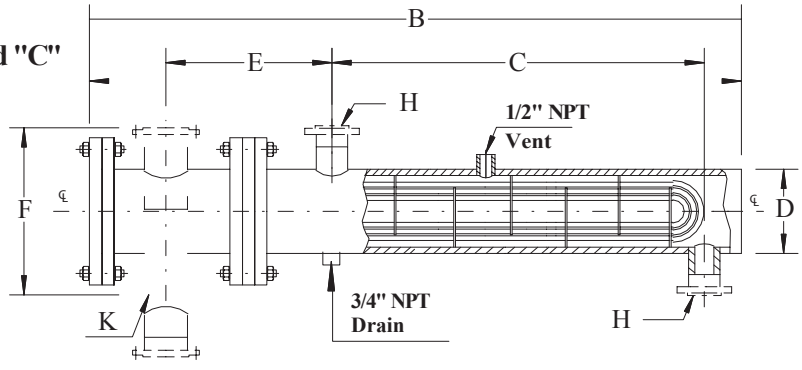


Head Type "B"





Channel Head "C"



Complete model number as per the following example:

HST-2-10-12-A-F

- "HST" Series
- Number of tube passes
- Nominal shell diameter
- Tube bundle immersion length
- Type of head
- Connections flanged or couplings

Design Pressure & Temperature	Side	Standard	Customized
	Shell	300 psi @ 400 F	
	Tube	100 psi @ 400 F	
Head		Carbon Steel, Stainless Steel, Cast Iron	
Shell		Carbon Steel, Stainless Steel	
Tubesheet		Carbon Steel, Stainless Steel	
Tubes O.D. 1/2", 5/8", 3/4"		316L Stainless Steel	

* - Various materials and working conditions can be provided.
- Legs can be supplied when specified.
- Space equal to or greater than dimension "B" should be provided for removal of tube bundle.

* - 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.

* - All heaters have a one year guarantee against failure caused by materials or workmanship, but not against gasket failure or damage caused by corrosion, water hammer, fouling, sealing, excessive pressure or temperature, incorrect installation or other factor beyond the manufacturer's control.

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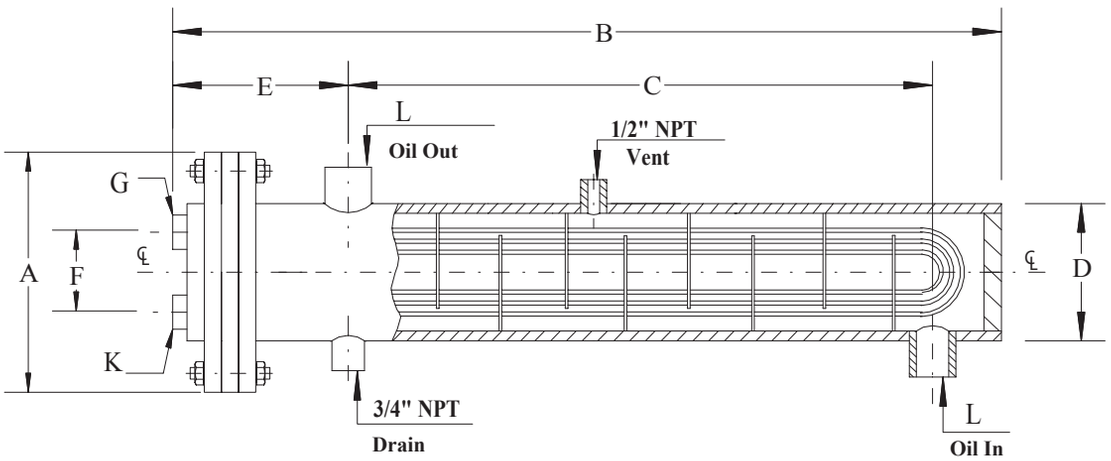
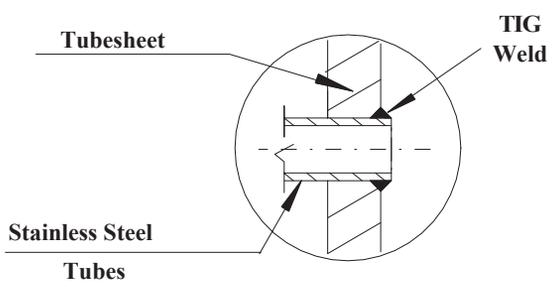


Optional stainless steel tubes have superior mechanical properties and corrosion resistance.
TIG welds provides the best tube to tubesheet joint (ASME joint efficiency equals 1)



Recommended Connection Sizes - Inches

G	K	L	F

DIMENSIONS AND WEIGHTS

HST	A	B	C	D	E	WGT
	in	in	in	in	in	lbs
*-42-**	7-3/4	29	17	4-1/2	8	70
*-43-**	7-3/4	41	29	4-1/2	8	90
*-44-**	7-3/4	53	41	4-1/2	8	110
*-45-**	7-3/4	65	53	4-1/2	8	130
*-46-**	7-3/4	76	64	4-1/2	8	150
*-52-**	9-1/4	29	17	5-9/16	8	95
*-53-**	9-1/4	41	29	5-9/16	8	120
*-54-**	9-1/4	53	41	5-9/16	8	145
*-55-**	9-1/4	65	53	5-9/16	8	170
*-56-**	9-1/4	76	64	5-9/16	8	195
*-64-**	9-1/4	53	41	6-5/8	8	190
*-65-**	9-1/4	65	53	6-5/8	8	220
*-66-**	9-1/4	76	64	6-5/8	8	250
*-68-**	9-1/4	100	88	6-5/8	8	310
*-610-**	9-1/4	125	113	6-5/8	8	370
*-612-**	9-1/4	150	136	6-5/8	8	430
Customized Fuel Oil Preaheater →						

HST	A	B	C	D	E	WGT
	in	in	in	in	in	lbs
*-86-**	12	77	63	8-5/8	9	415
*-88-**	12	101	87	8-5/8	9	525
*-810-**	12	126	112	8.625	9	635
*-812-**	12	150	136	8-5/8	9	745
*-106-**	15	78	63	10-3/4	10	605
*-108-**	15	102	87	10-3/4	10	765
*-1010-**	15	127	112	10-3/4	10	925
*-1012-**	15	151	136	10-3/4	10	1085
*-126-**	17	78	63	12-3/4	10	845
*-128-**	17	102	87	12.750	10	1065
*-1210-**	17	127	112	12-3/4	10	1285
*-1212-**	17	151	136	12-3/4	10	1505
*-1412-**	19	152	136	14	11	1750
*-1612-**	21	154	136	16	12	2305
*-1812-**	23	156	136	18	13	2850
*-2012-**	25-1/2	156	136	20	13	3550