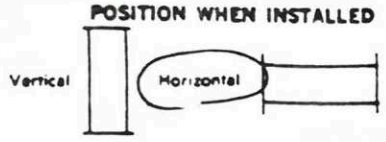
TYPE "OC" HEAT EXCHANGERS (Straight Tube—Channel Head Design)

ARRANGEMENT WANTED

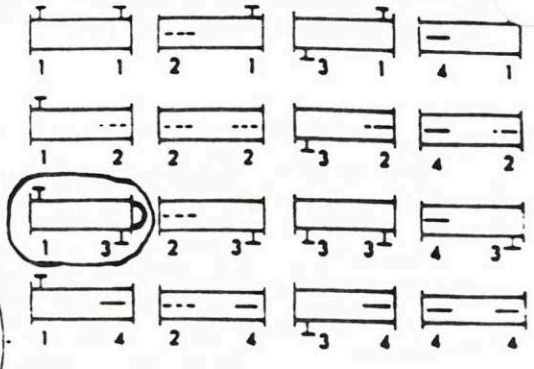
SHELL AND HEAD CONNECTION DETAILS

POSITION WHEN INSTALLED



Encircle Needed Connection Arrangement

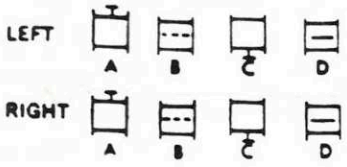
SHELL VARIATIONS
SIDE VIEW SINGLE PASS



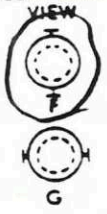
CHANNEL FABRICATED HEADS

TWO PASS

ONE PASS—SIDE VIEW

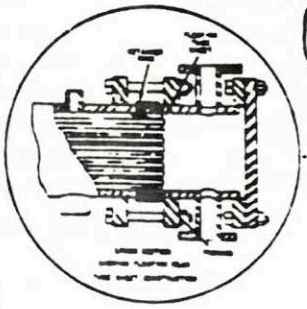


LEFT END VIEW



RIGHT SIDE VIEW

Figure H shows bonnet but channel with cover can be furnished

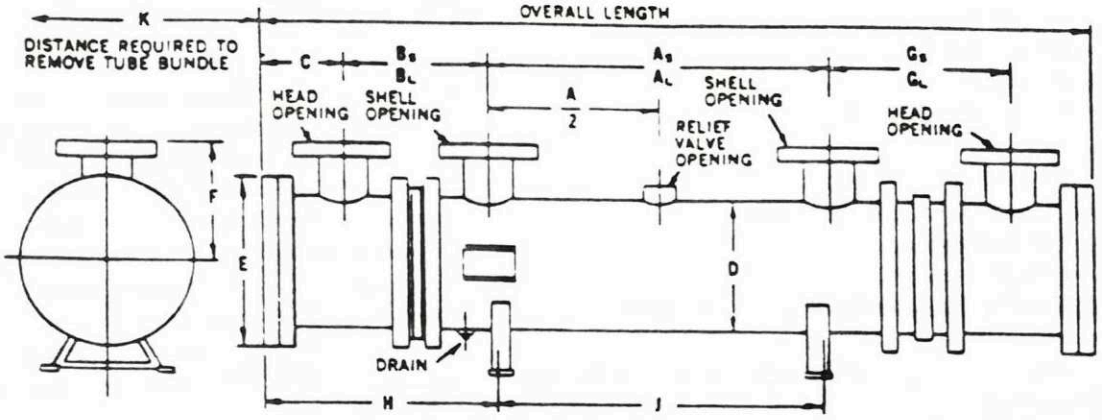


NOTES: One pass connection arrangement A A and 1-1 shell will be furnished unless otherwise specified. Two pass connection arrangement F-H and 1-1 shell will be furnished unless otherwise specified. Shell and head connection sizes given on front page. Materials of construction listed on front page.

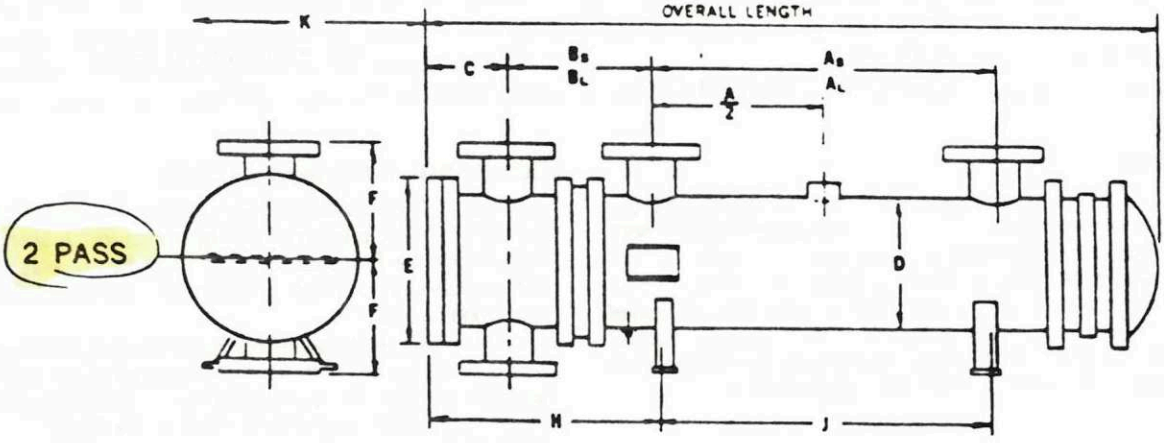
IMPORTANT: Indicate connection orientation required

DIMENSIONS

1 PASS



2 PASS



NOTE: Flanges for field connections drilled and faced per 150# ANSI standards.

BELL & GOSSETT

SUBMITTAL

C-211
REVISION 3

Type "OC" Heat Exchangers [redacted]

Straight Tube—Channel Head Design

JOB SECONDARY TREATMENT [redacted]

UNIT TAG NO. [redacted]

ENGINEER [redacted]

CONTRACTOR [redacted]

B & G REPRESENTATIVE [redacted]

ORDER NO. [redacted] DATE 02/22/91

SUBMITTED BY _____ DATE _____

APPROVED BY _____ DATE _____

DUTY: MODEL [redacted] OC-1812-2 OPERATING DATA

1. Type of Service: Condenser _____ Evaporator _____ Cooler _____ Heater X

	TUBE SIDE	SHELL SIDE
2. Fluid Circulated	EFFLUENT	50% ETH. GLYCOL
3. Total Flow*	13.38 l/s	16.7 l/s
4. Specific Gravity	1.0	1.07
5. Specific Heat	1.0	.76
6. Latent Heat		
7. Viscosity**	1.37 cp	9.42 cp
8. Thermal Conductivity	.356	.250
9. Temperature In/Out	12.8°C / 1.7°C	-9.4°C / 1.7°C
10. Transfer kW	626.8	
11. Openings (Flanged) (~~Threaded~~)	100 mm	150 mm
12. Operating Pressure		
13. Design Pressure	1034 kPa	1034 kPa
14. Maximum Operating Temperature of Unit	190°C	190°C
15. Pressure Drop (Maximum)	2.4 kPa	58 kPa
16. Fouling Factor or Percentage of Additional Surface	.00086	

*Expressed in (l/s), l/min, m³/hr, kg/min, kg/hr
**Expressed in Proper Units and Temperature such as centipoises @ °C

MATERIALS:

1. Heads _____ (Channel) STEEL
2. Shell STEEL
3. Tube Sheets STEEL
4. Tubes COPPER 0.889 TH.
5. Tube Size O. D & Gauge (16) 19
6. Baffles STEEL
7. Gaskets COMPRESSED FIBRE

CODE: ASME ✓ Other _____

DESCRIPTION

B&G Type "OC" Heat Exchangers are of the shell and tube type. Tube bundles are removable and tubes are easily cleaned both inside and outside. Tube ends are roller expanded into both the front and rear tube sheets. Floating tube sheet construction within the rear head compensates for expansion or contraction of the entire bundle regardless of temperature variations. Baffles are stamped to close tolerances, minimizing the slippage of liquids or gases between the baffles and shell wall.

CONSTRUCTION MATERIALS

B&G "OC" Heat Exchangers are constructed according to ASME requirements for pressures and temperature. A Manufacturer's Data Report for Pressure Vessels, Form No. U-1 as required by the provisions of the ASME Code Rules is furnished with each unit upon request.

This form is signed by an authorized inspector, holding a National Board Commission, and who is employed by an authorized inspection agency, certifying that construction conforms to the latest ASME Code for pressure vessels. The ASME "U" symbol is stamped on each vessel.

BELL & GOSSETT ITT

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