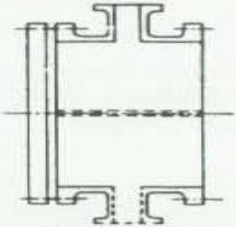
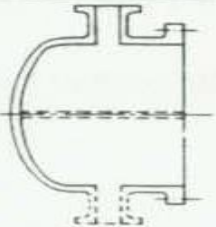
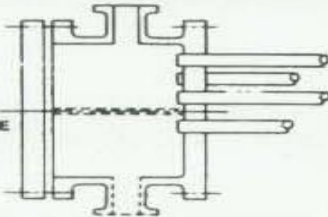
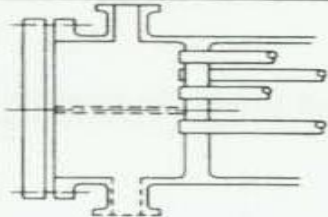
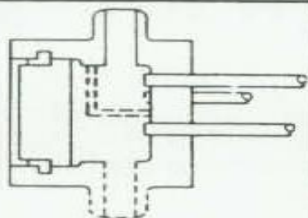
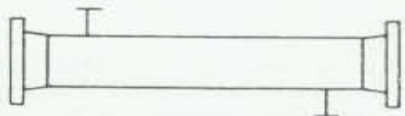
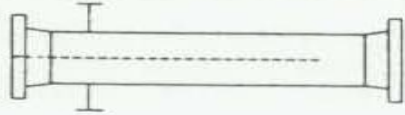
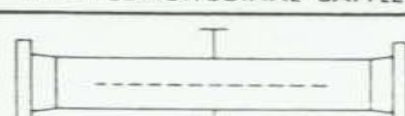
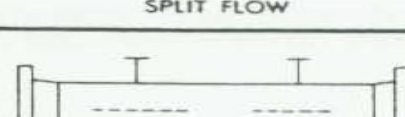
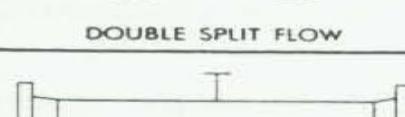

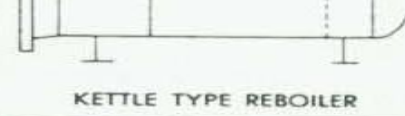
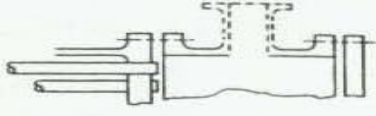
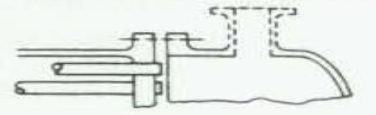
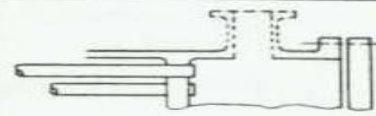
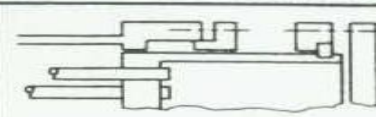
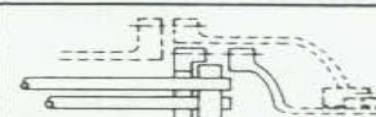
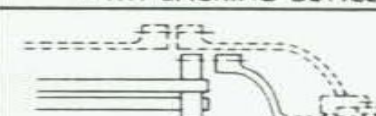
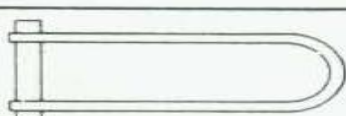
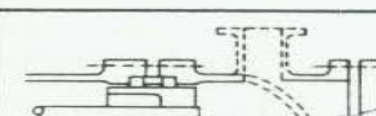


Heat Exchanger TEMA Types

Prepared by : Shahyad Mollasharifi
Winter 2024

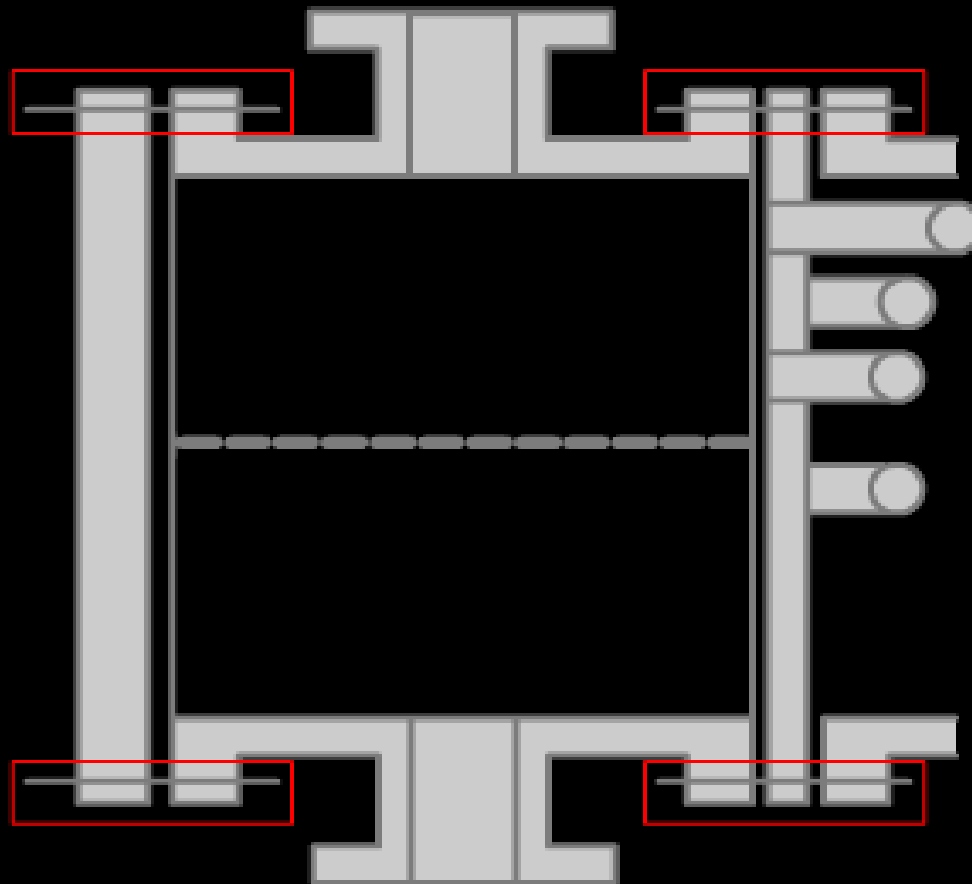
	FRONT END STATIONARY HEAD TYPES
A	 <p>CHANNEL AND REMOVABLE COVER</p>
B	 <p>BONNET (INTEGRAL COVER)</p>
C	 <p>REMOVABLE TUBE BUNDLE ONLY</p> <p>CHANNEL INTEGRAL WITH TUBE- SHEET AND REMOVABLE COVER</p>
N	 <p>CHANNEL INTEGRAL WITH TUBE- SHEET AND REMOVABLE COVER</p>
D	 <p>SPECIAL HIGH PRESSURE CLOSURE</p>

	SHELL TYPES
E	 <p>ONE PASS SHELL</p>
F	 <p>TWO PASS SHELL WITH LONGITUDINAL BAFFLE</p>
G	 <p>SPLIT FLOW</p>
H	 <p>DOUBLE SPLIT FLOW</p>
J	 <p>DIVIDED FLOW</p>
K	 <p>KETTLE TYPE REBOILER</p>
X	 <p>CROSS FLOW</p>

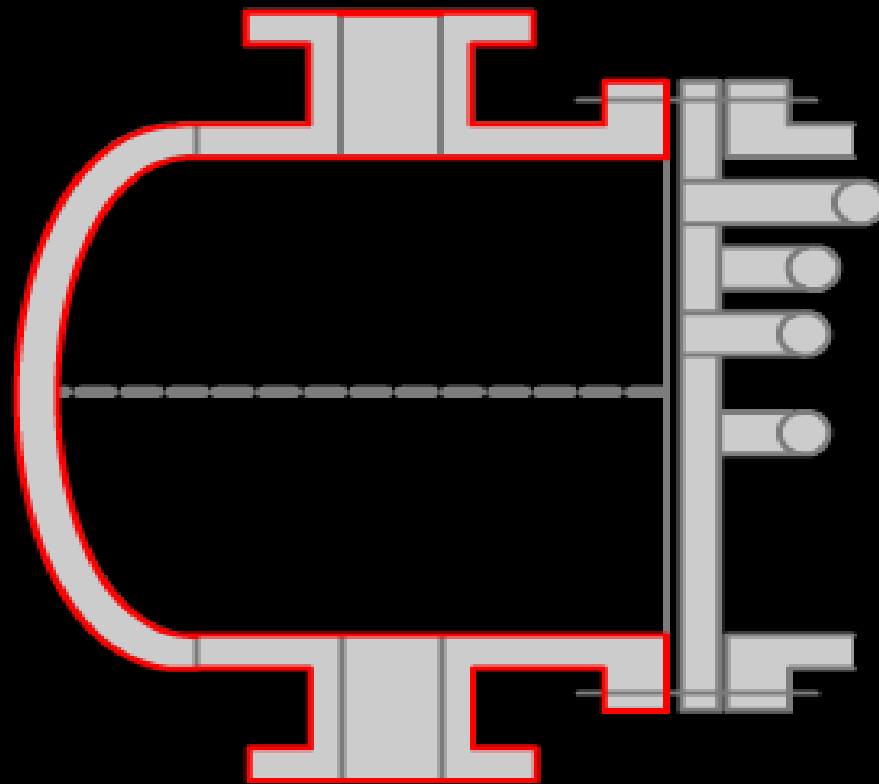
	REAR END HEAD TYPES
L	 <p>FIXED TUBESHEET LIKE "A" STATIONARY HEAD</p>
M	 <p>FIXED TUBESHEET LIKE "B" STATIONARY HEAD</p>
N	 <p>FIXED TUBESHEET LIKE "N" STATIONARY HEAD</p>
P	 <p>OUTSIDE PACKED FLOATING HEAD</p>
S	 <p>FLOATING HEAD WITH BACKING DEVICE</p>
T	 <p>PULL THROUGH FLOATING HEAD</p>
U	 <p>U-TUBE BUNDLE</p>
W	 <p>EXTERNALLY SEALED FLOATING TUBESHEET</p>



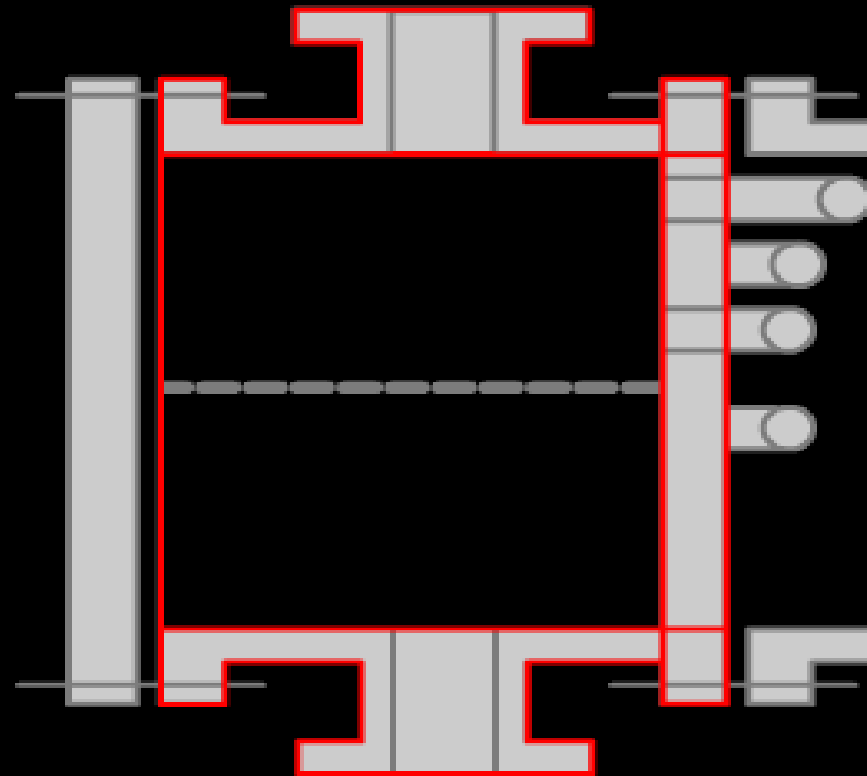
Stationery Head



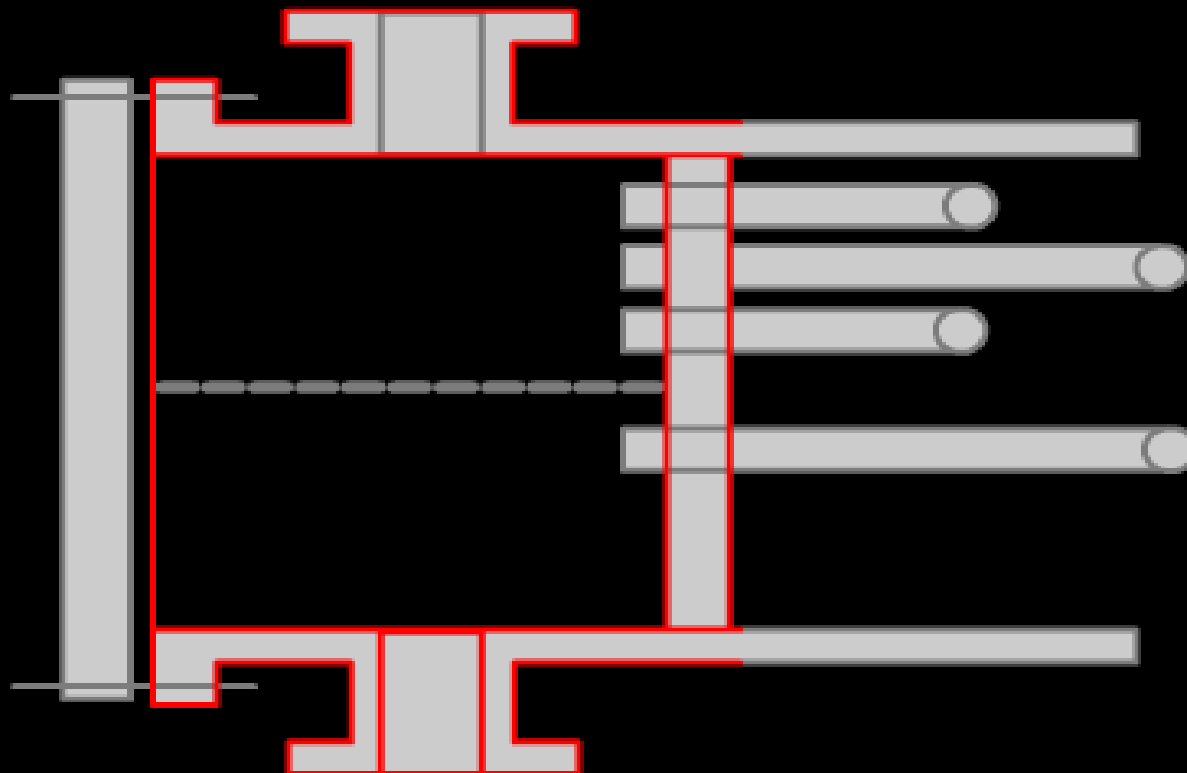
Type A Stationery Head



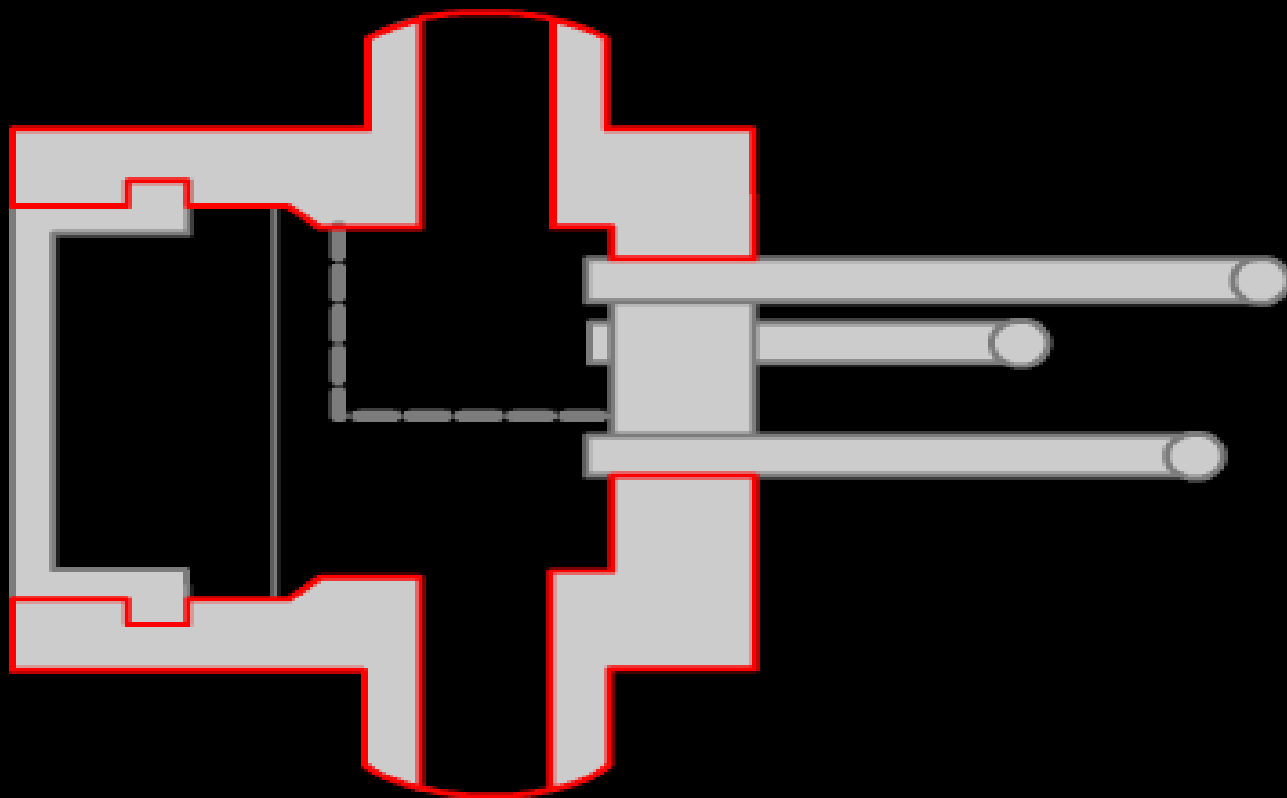
Type B



Type C



Type N



Type D

SHELL

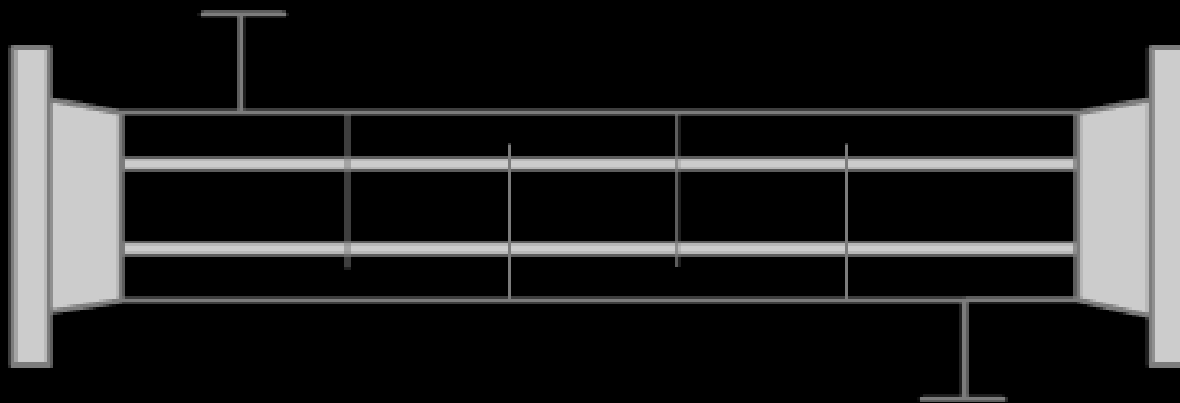
The image features a solid light beige background. In the lower right quadrant, there are several overlapping, wavy, light gray lines that create a sense of movement or depth, resembling stylized waves or smoke.



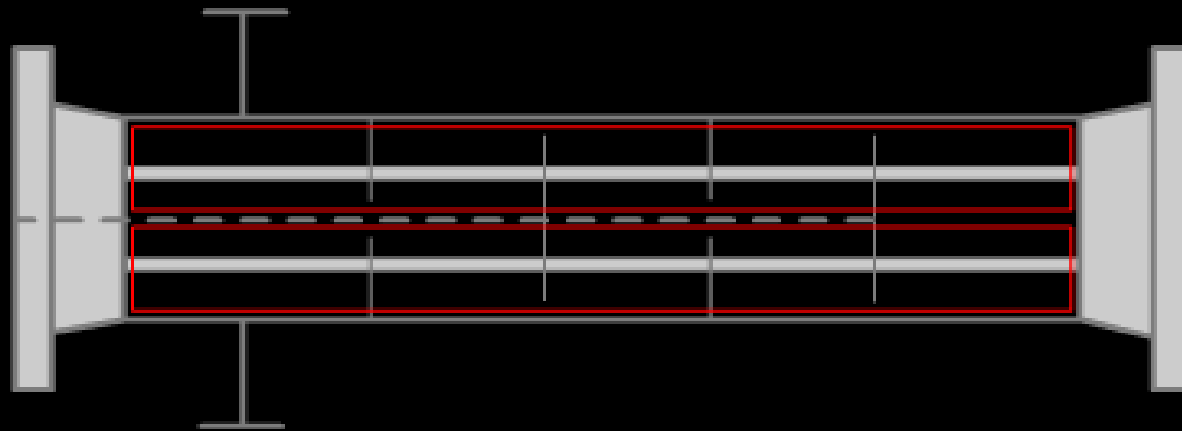
Shell



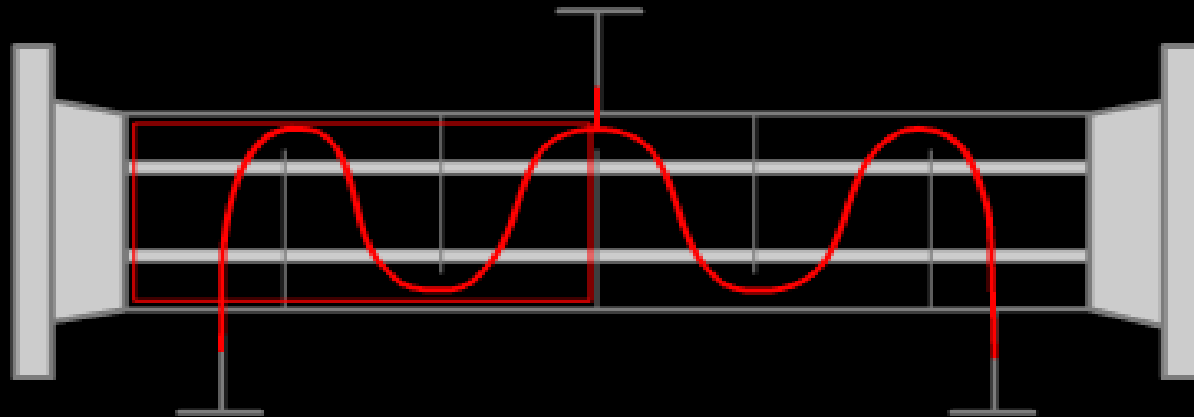
**Shell and
Nozzel**



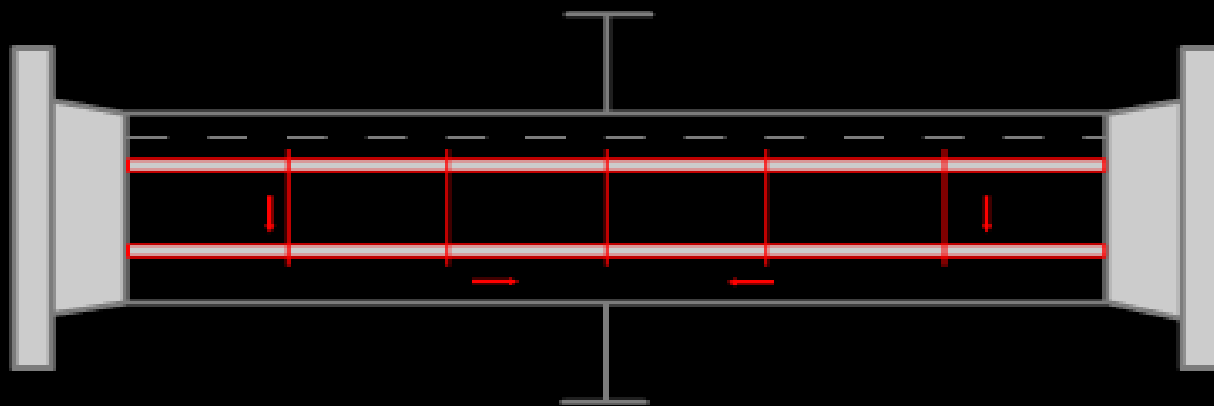
Shell Type E



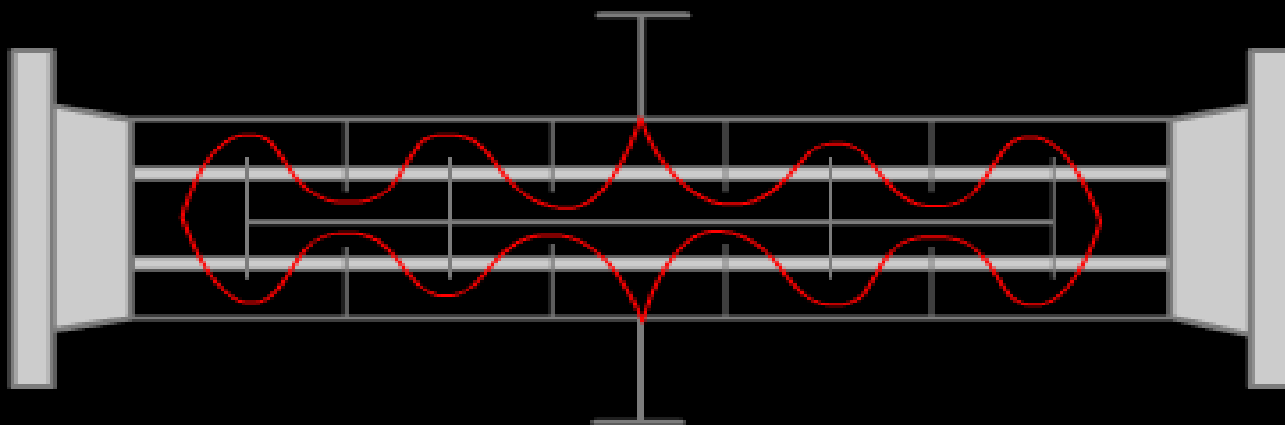
Shell Type F



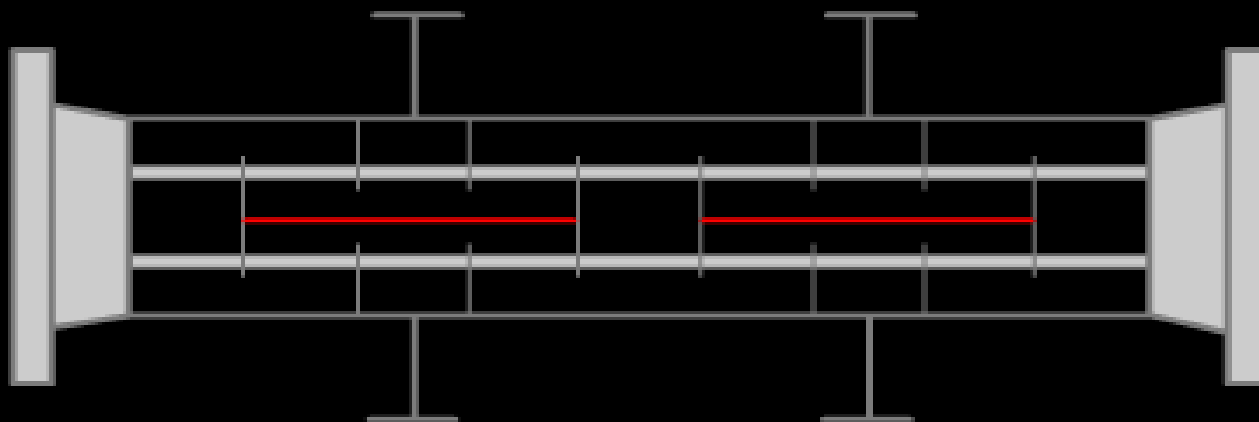
Shell Type J



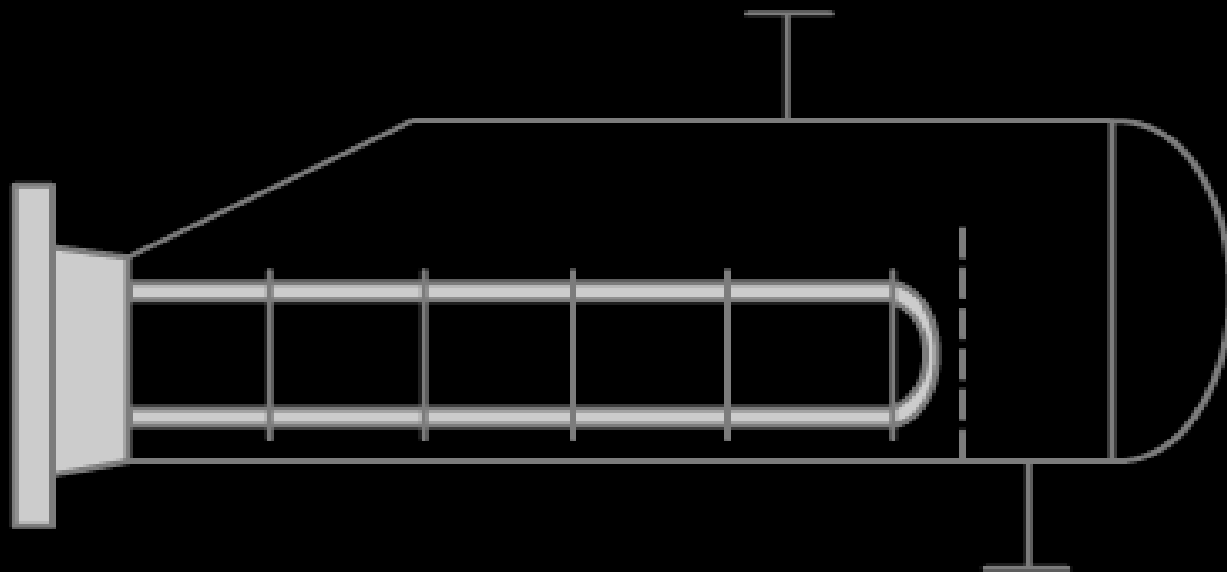
Shell Type X



Shell Type G



Shell Type H

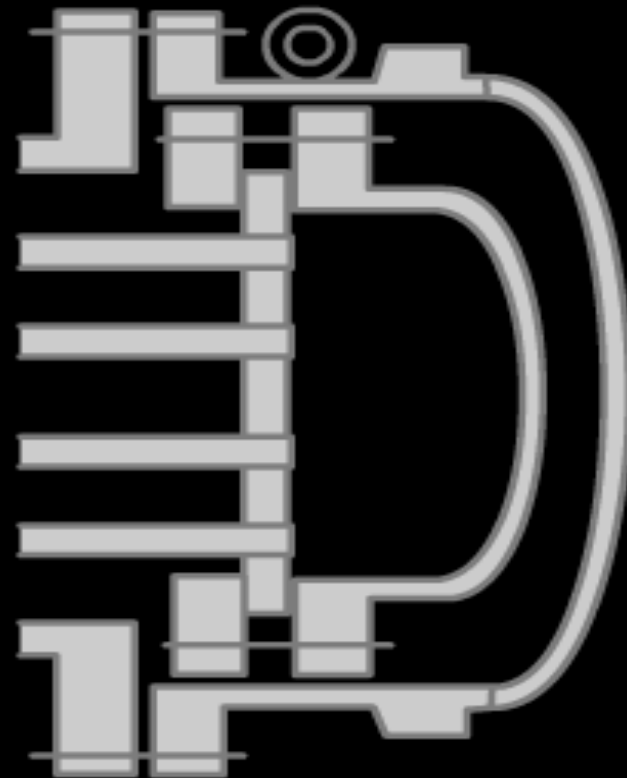


Shell Type K

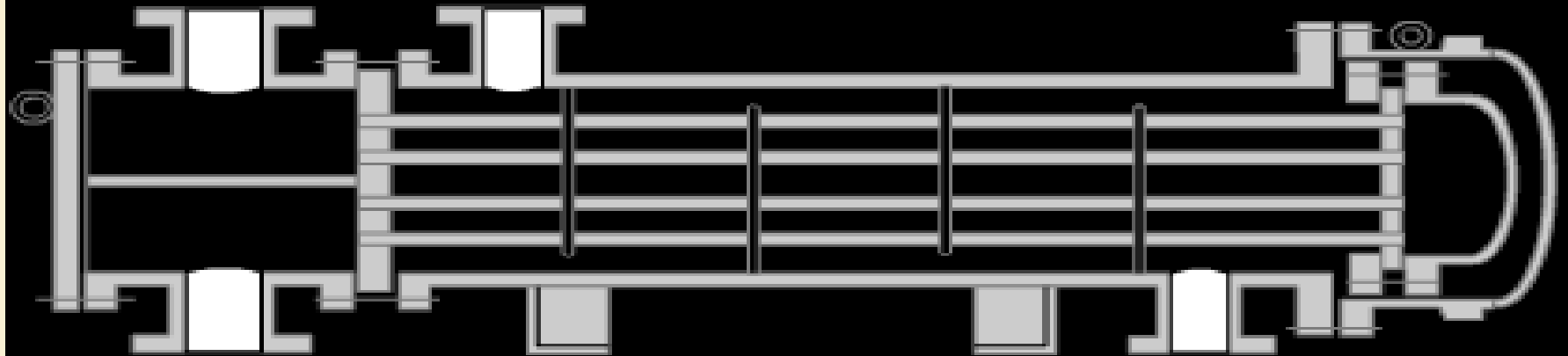
REAR HEAD



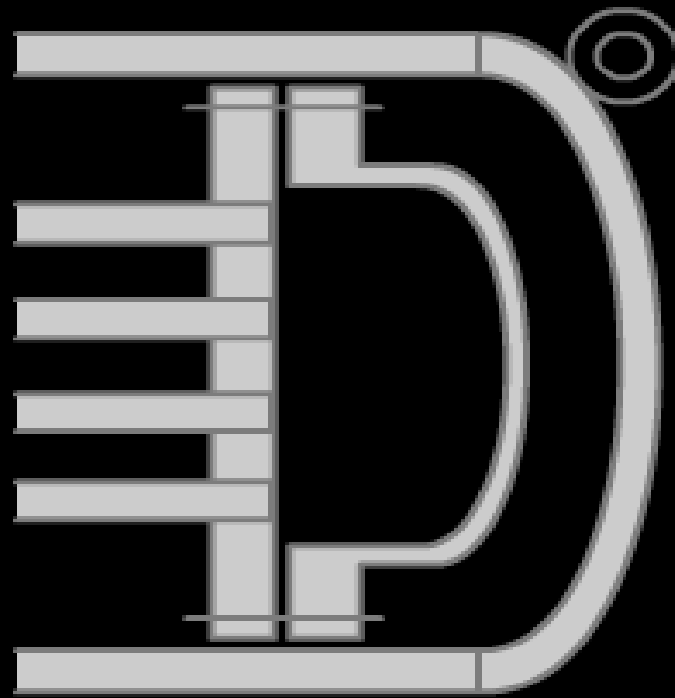
REAR HEAD



Rear Head Type S

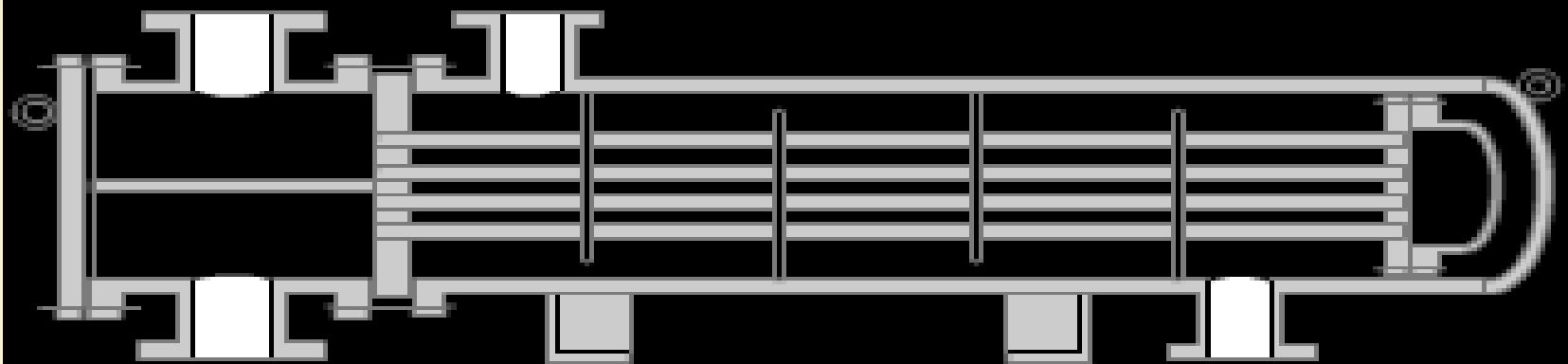


S Type (Split Baking Rings)

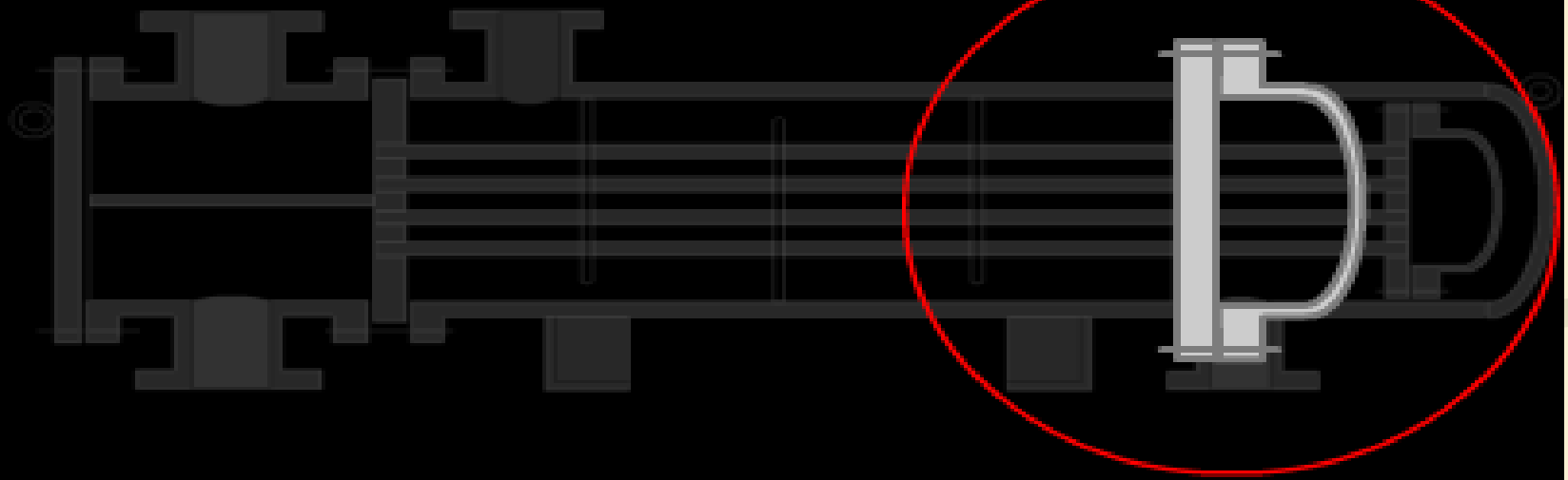


Rear Head Type

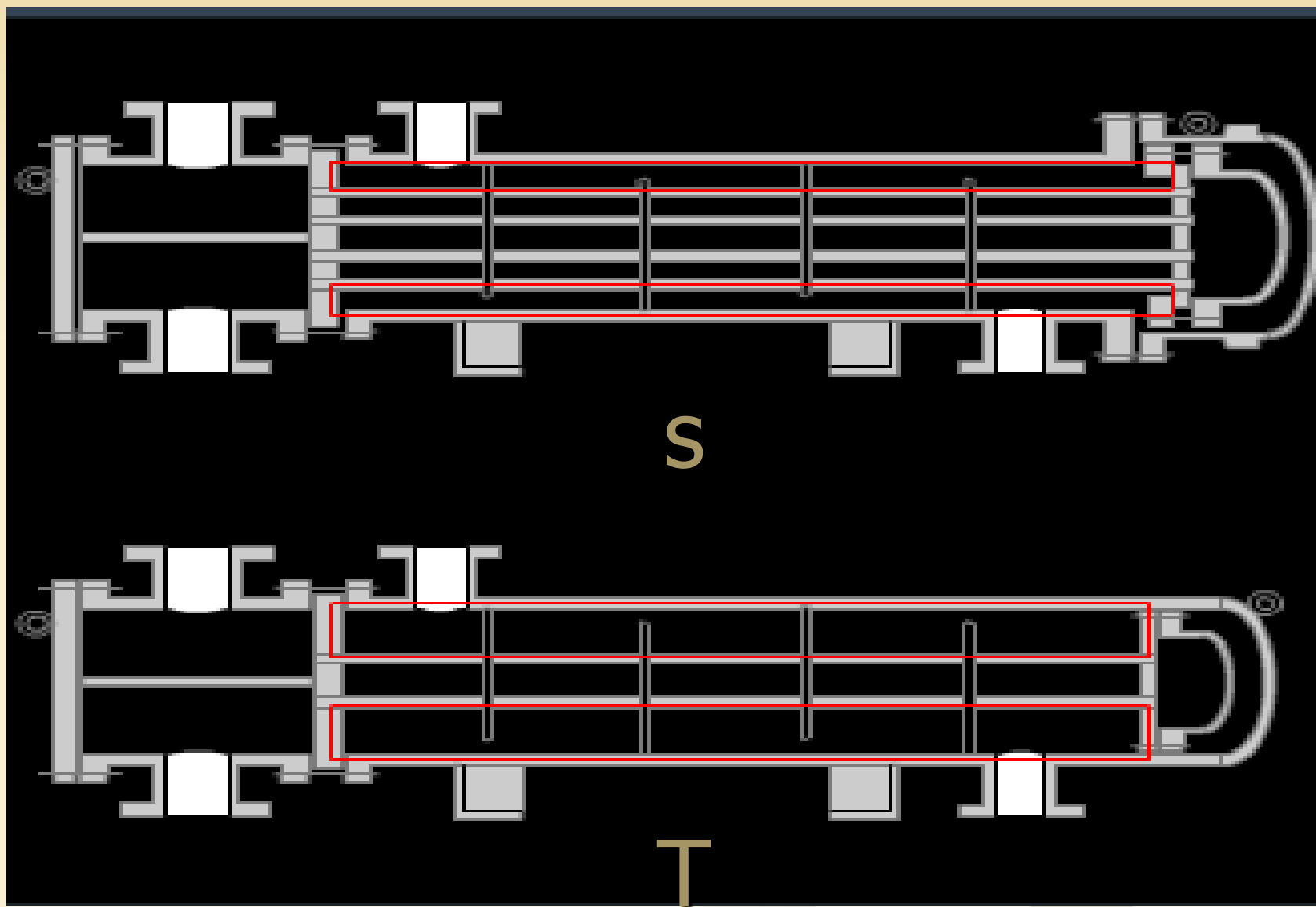
T



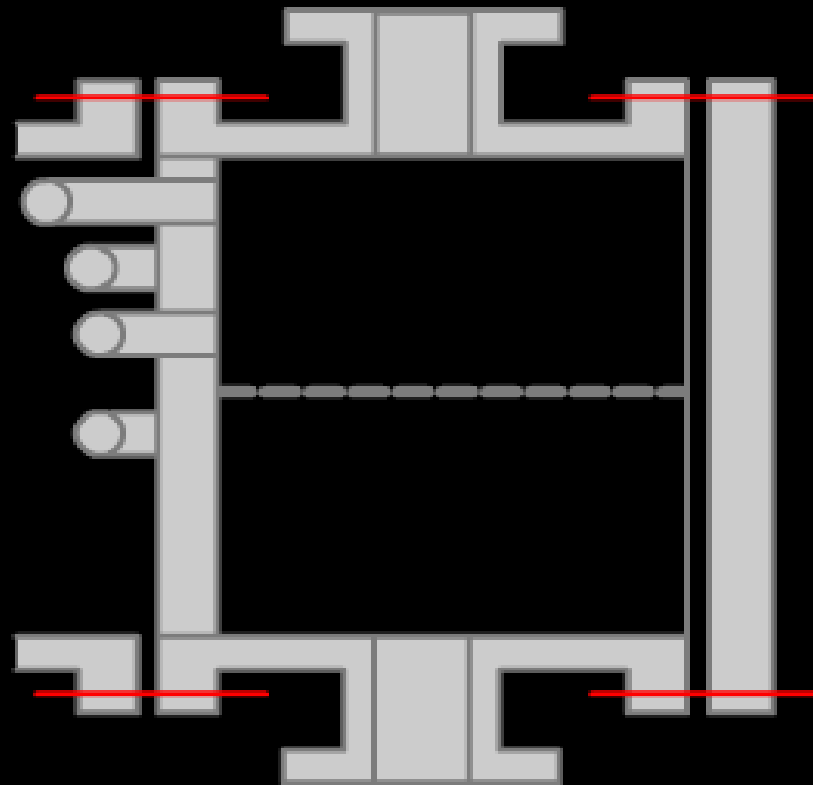
T Type



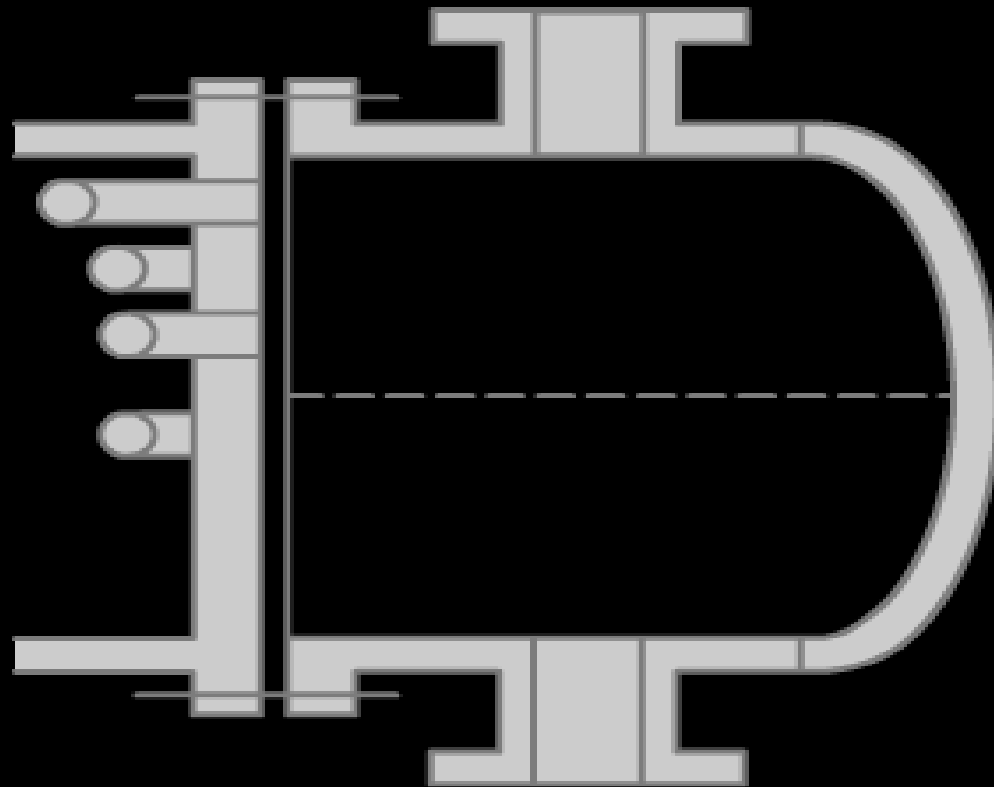
T Type (Pull Throught Floating Head)



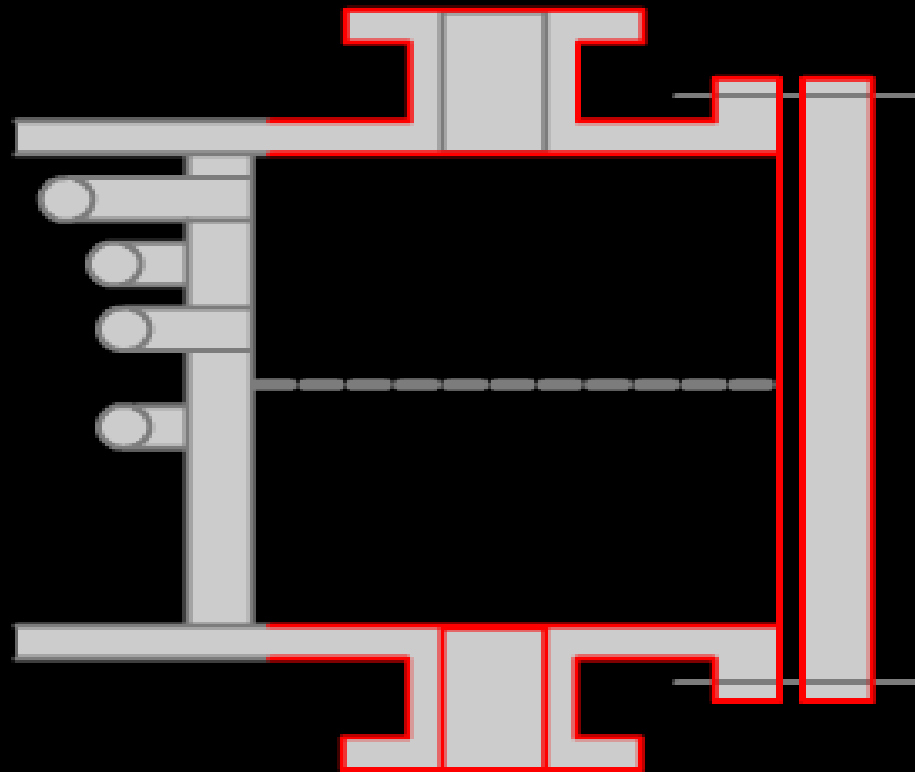
مبدل نوع S فضای بیشتری از مبدل نوع T جهت نصب لوله دارد



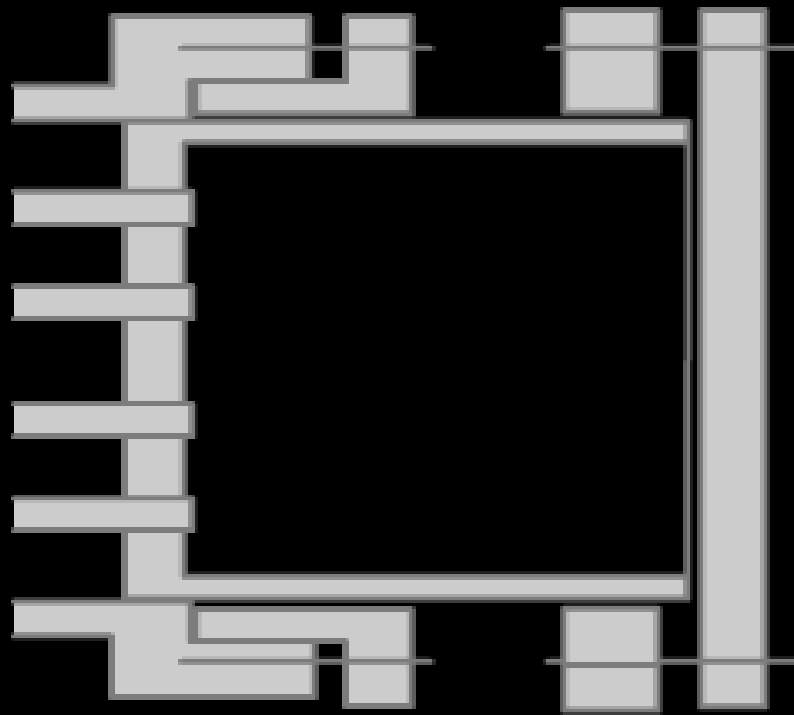
Rear Head Type L



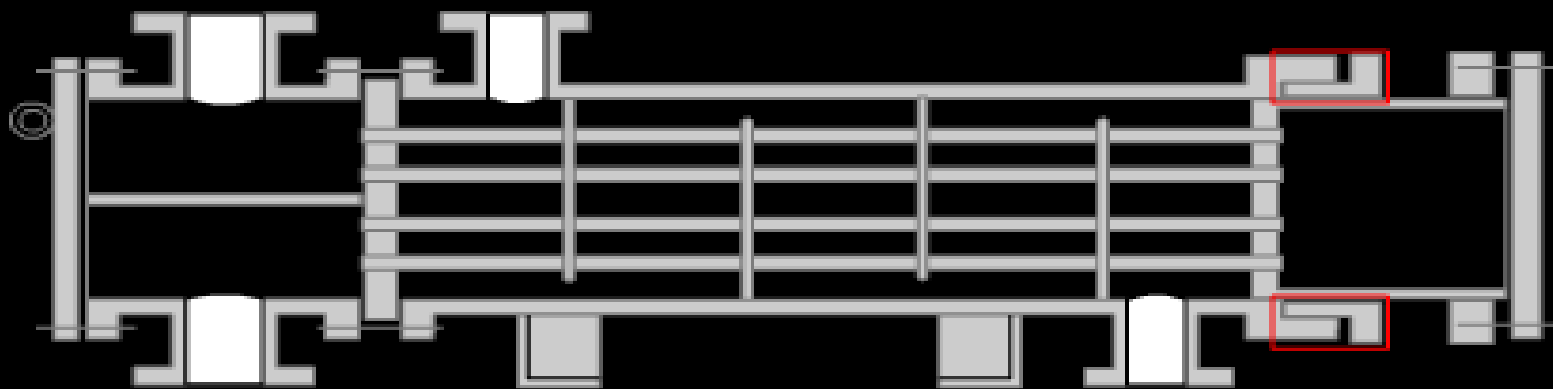
Rear Head Type M



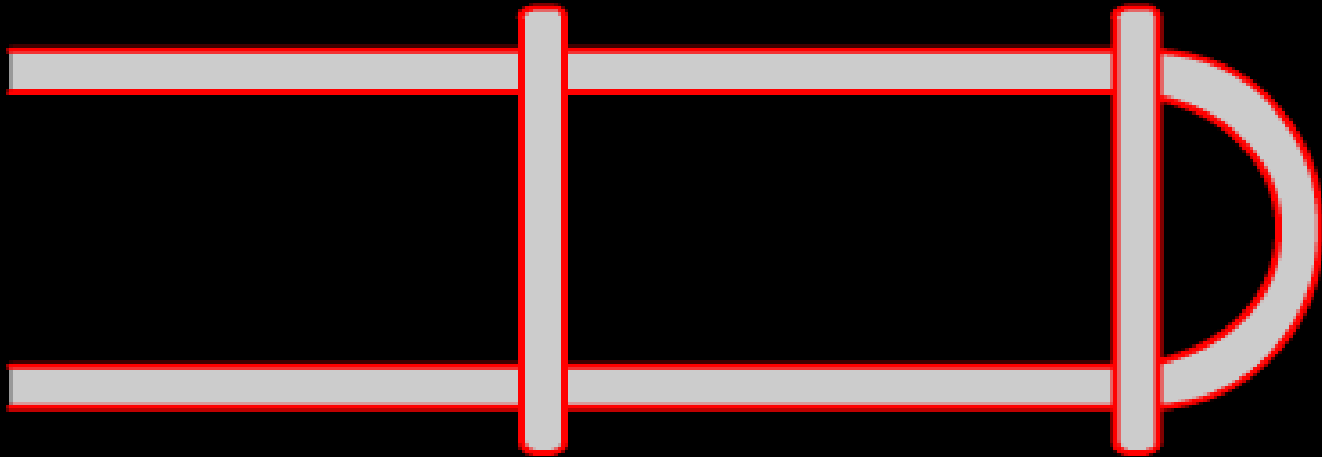
Rear Head Type N



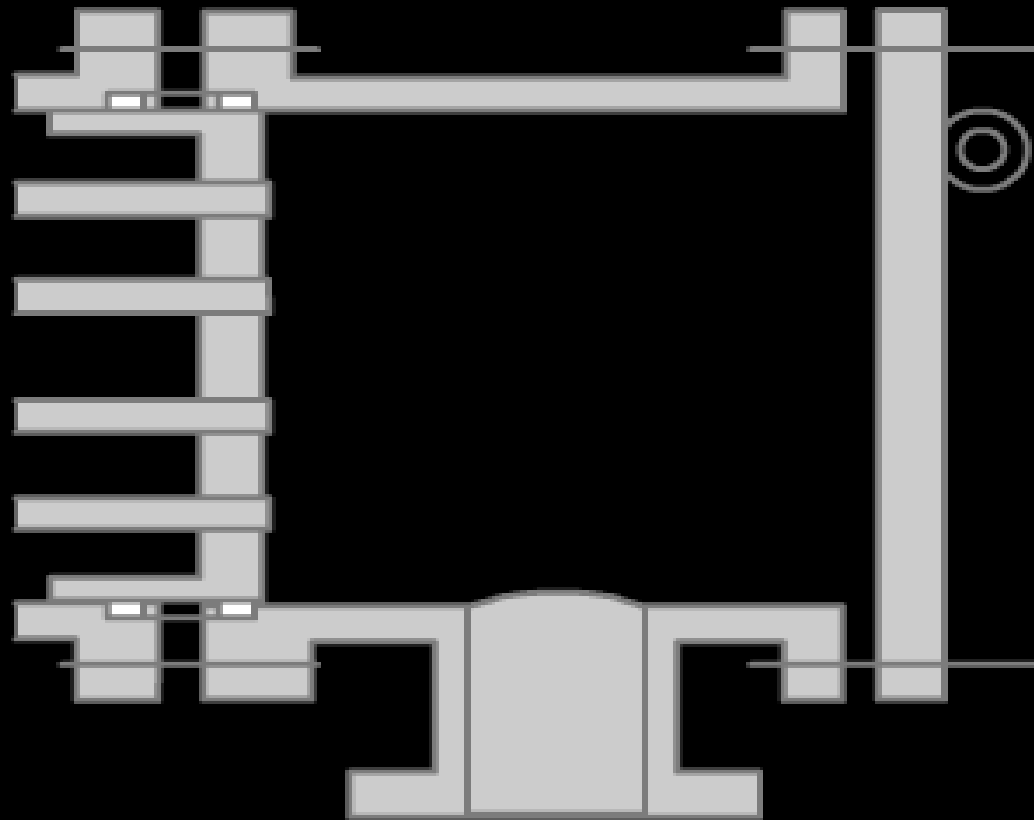
Rear Head Type P



P Type (Outside Packed)

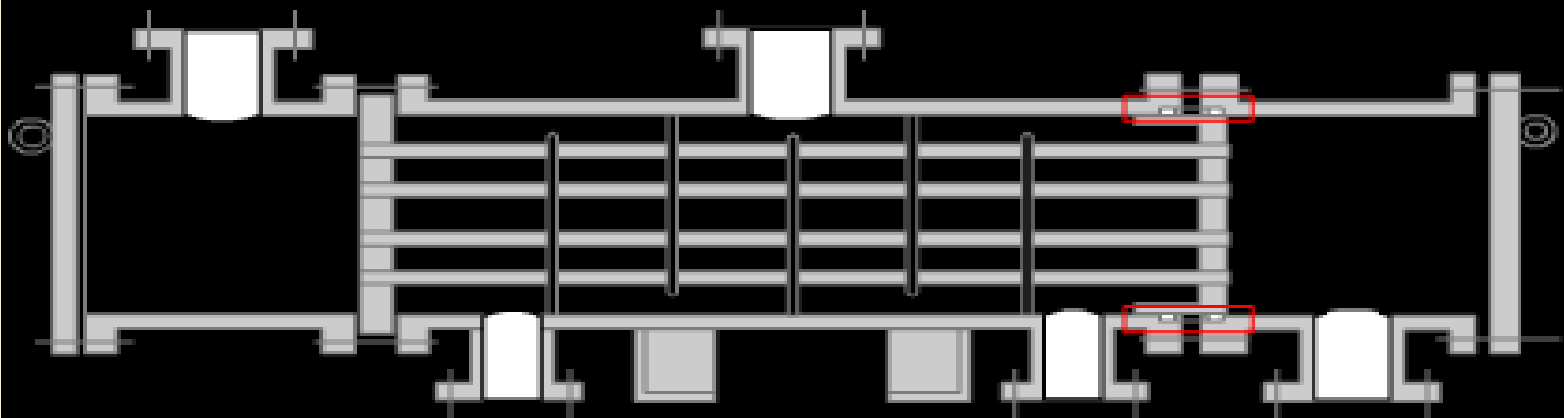


REARE head TYPE U



Rear Head Type

W



W Type (Externally Scaled)