

Towers of Oil and Petrochemical Industries

Major processes of distilling, absorbing, repelling, etc take place in towers. In towers, the flow of liquid and gas in trays or packing are in touch with each other and mass transfer is done. The basis for the function of towers is the difference in boiling point of various hydrocarbons. The heavier the hydrocarbon the higher the boiling point is and vice versa. In the production process refinery products get warm as they pass through heat exchangers and enter distillation tower in which distillation is done in different layers of a tower under specific temperature and pressure. In this process the products obtained in different heights of the tower come out through its nozzles. Towers are designed and made to a broad range of temperatures and different pressures using various materials including carbon steel, stainless steel, clad, duplex, inconel, chromium molybdenum, monel, etc and based on different codes like ASME, PD5500, AD-Merkblatt, UBC, ANSI, etc. MSA prides itself on having a significant role in the design, fabrication, and delivery of towers for most refineries and petrochemical complexes including: Shazand Imam Khomeini Refinery, towers of South Pars Project Phases 1, 6, 7, 8, 14, towers of Ilam Petrochemical Complex, towers of Arvand Petrochemical Complex, towers of 4th and 5th Methanol Project, towers of Ilam Gas Refinery, towers of Jam Petrochemical Complex, etc.

