KAPLAN INDUSTRIES INC
COMPRESSED GAS CYLINDERS
HIGH PURITY HYDROCARBONS
TOTAL CYLINDER SERVICE

A Brief Explanation of various Industrial Gas Cylinder Dip Tubes

Siphon tube: The siphon is meant to extract the liquid at the bottom of the cylinder. This allows liquid to dispel from the cylinder instead of gas. Normally, if a cylinder has a siphon built in, it is painted a particular color depending on the gas provider. This is done to prevent confusion as to which cylinder has a siphon or not. Siphon tube material can vary but for Co2 applications such as paintball cylinders, smaller Co2 tanks for Kegerators, home soda machines, as well as many others should be poly material only.

Dip tube: Dip tubes are used for liquid phase product withdrawal from cylinders of liquefied products such as liquid hydrocarbon blends, carbon dioxide, propane, ammonia, or various refrigerants. The dip tube runs down the center of the pressurized cylinder and draws the liquid up through the valve. These can be made of various materials but must be compatible with the gas application.

Mixing tube: developed to allow a uniform mix of cylinders being filled with multiple gases. A “dip tube” with openings along its length creates turbulence in the cylinder during filling. This promotes superior gas mixing and produces a homogeneous gas blend without need to roll the cylinder.

Blending tube: In addition to uniform gas mixing as done with the mixing tube, a blending tube is a modified mixing tube with the bottom pinched which then permits withdrawal of the gas mixture from various locations within the cylinder and not just the bottom, ensuring a consistent mix from beginning to end.

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