

FLEXITRAY® Valve Trays

Proven performance in all liquid-vapor contacting applications.

FLEXITRAY® valve trays combine high capacity and excellent efficiency with a wide operating range. Utilizing proprietary design techniques and the wide range of valve types available for FLEXITRAY valve trays, design engineers at Koch-Glitsch have the knowledge and experience to assist you in optimizing performance for your application.

With Koch-Glitsch technical expertise in design, manufacturing, and installation, a well-designed FLEXITRAY valve tray generally provides the most economically attractive solution for grass-roots column construction projects.

Benefits of FLEXITRAY Valve Trays

Uniform vapor distribution, wide operating range

- ▶ Excellent liquid-vapor contacting for high efficiency
- ▶ Reduction of the reflux ratio for a given tower diameter
- ▶ Smaller tower diameter for a given feed rate

The vapor exiting a valve is directed horizontally, rather than vertically as in a sieve tray, which reduces entrainment. This also allows longer run times in fouling services because horizontal radial vapor flow at the tray floor reduces “dead spots” where solids can settle, polymer growth can start, or decomposition can occur.

Higher capacity and low pressure drop

FLEXITRAY valve trays can handle loadings up to 10% higher than sieve trays while providing higher efficiency. The contoured hole of the T0 type valve provides the lowest pressure drop per tray over a wide range of flow rates.



Conventional trays are equipped with standard downcomers. The typical inlet areas under the downcomer and a bubbling area can be customized using a variety of valve types depending on the application or service.

Cost effective

The initial purchase price, simple installation, and reduced maintenance of the FLEXITRAY valve tray contribute to cost effective projects.

Versatile

An existing tower equipped with FLEXITRAY valve trays can often be used in a different application with minimum modifications because of the wide operating range, high capacity, low pressure drop, and excellent efficiency.

With these product advantages plus Koch-Glitsch technical expertise, KOCH-GLITSCH® conventional trays have been installed in tens of thousands of plants worldwide. Year after year, they continue to be the trays preferred by plant operators.