

Pressemitteilung / Press Release

Modular DUPLEX large scale filter technology for high quality polymer filtration

Oberglatt, Switzerland, October 16, 2019 – The MAAG Group introduces an all new modular DUPLEX filter system. The wide range of filter modules allows the configuration of DUPLEX filter units for any large scale polymer filter application customized to its polymer type, viscosity, throughput and filter fineness.

According to the polymer process, piping layout and filter handling requirement the new DUPLEX filter system is available with reliable direct bolt sealing units, and also jack bolt sealing units between the piping and the filter vessel.

The cost-effective DUPLEX direct bolt execution allows a fast disconnection of the outlet piping due to a C-clamp between the outlet pipe and the vessel cover. Once the vessel cover is unbolted and removed, the used candle bundle can be replaced easily by a new candle bundle.

With the convenient DUPLEX jack bolt execution, for replacement of only the candle bundle the connection between the outlet piping and the vessel cover opens by unscrewing the upper single jack bolt with its safe access from outside of the system frame. For a complete filter vessel replacement only the lower jack bolt needs to be unscrewed as well.

The new modular DUPLEX system offers the use of external piston style switch over valves, and also system integrated slide plate switch over valves.

The sturdy design of the external piston style switch over valves offers a reliable and safe operation. Depending on the handling and access requirements, the valves are available for manual operation or with electric actuators and position control.

The metal-to-metal seal of the system integrated slide plate switch over valves needs no additional sealing gaskets and ensures minimal maintenance. The standard hydraulic drive with position control can be executed with an electric actuators as well.


Both valve executions are backed by MAAG Groups quality control, spare part service and guarantee.

The basic operation of MAAG Groups modular DUPLEX filter system is a semi-automatic transfer sequence where the actual fill position is controlled by the operator. Depending on the filter execution, the PLC panel visualizes the movement of both switch over valves and each of four vent and drain valves, and additional process data as pressures and temperatures. Depending on the ambient conditions, the control system can be executed for a safe industrial area or hazardous area.

The new DUPLEX filter units are available in finely graduated sizes to match the need of active filter surface. Up to 12 different standard sizes cover the range between 5,1 m² and 255,4 m² and furthermore can be adjusted to any application. The corresponding candle bundles are made out of MAAG Groups micronex[®] candle filter elements and designed for equal flow distribution, minimized polymer dwell time and lowest deltaP pressure loss. Based on the experience of more than 1000 different candle executions, all components (e.g. diameter and length, pleating height, filter fineness, layer configuration, 316L woven mesh and fiber metal felt, Nitronic 60 end fittings) of MAAG Group micronex[®] candle filter elements are carefully arranged to match the specific needs of the filtration target.

For discontinuous and batch filter applications all filter sizes are available as SIMPLEX single vessel execution as well. According to the flow piping, a SIMPLEX filter can be installed in a horizontal or vertical position. For fast candle bundle exchange there are Pre Heat Stations and Vessel Rotating Devices available.

The new modular DUPLEX and SIMPLEX large scale filter units are covered by MAAG Groups worldwide parts and field service support.

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Photo		DUPLEX vessel filter

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About the MAAG Group

The MAAG Group is a broadly diversified global solutions provider with integrated and customizable systems in process technology for the polymer, chemical, petrochemical, pharmaceutical and food industries. Its Pump & Filtration Systems, Pelletizing Systems, Pulverizing Systems, and Recycling Systems divisions consolidate the many years of experience and in-depth know-how of the AUTOMATIK, ETTLINGER, GALA, MAAG, REDUCTION, and SCHEER product brands. The MAAG Group currently employs over 1,000 people at production sites in Switzerland, Germany, Italy, the USA, and China. Additional sales and service centers in France, Singapore, Taiwan, Malaysia, India, Thailand and Brazil ensure close attention to customers' needs. For more information visit www.maag.com.

The MAAG Group is a business unit of Dover Fluids, a segment of the Dover Corporation.