

Kosan Crisplant's UFM universal filling machine is designed for safe and accurate filling of all types of LPG cylinders and valves.

- Most used filling machine in the world
- Weighing principle (load cell) or mass flow principle
- Operation; fully automatic, semi-automatic or manual
- Installation: on carrousel, in-line in roller or chain conveyor, or as stand-alone unit
- Flexible to different cylinder diameters, heights and cylinder valves
- Modular design with thoroughly tested components
- Competitive price

Your benefits

- Satisfied end-users due to accurately filled cylinders
- Savings on LPG because of high filling accuracy and intelligent filling software

- 1 *Semi-automatic filling of industrial cylinders with screw valves including fully automatic opening and closing of valve hand wheel*
- 2 *Fully automatic filling of domestic cylinders with centre valves*
- 3 *Manual filling of camping cylinders with screw valves*
- 4 *Semi-automatic filling of industrial cylinders with centre valves*
- 5 *Manual filling of industrial cylinders with screw valves*
- 6 *Fully automatic filling of camping cylinders with centre valves*



- Low installation costs due to intrinsically safe system
- Minimum maintenance and service requirements
- Low power consumption
- Easy and safe to operate
- High safety due to intrinsically safe system
- Easy adjustment and maintenance (error messages in display)
- Ready for integration in filling system network
- Ready for communication with PC for data collection

Your possibilities

- Carrousel models for high capacity batch filling (from approx. 300 cylinders per hour)

and/or for automated filling. Operation can be manual, semi-automatic or fully automatic

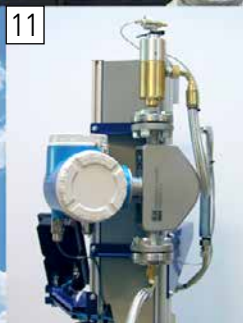
- In-line in chain conveyor models for low capacity filling (up to approx. 300 cylinders per hour) or/and for automated handling of cylinders (especially big and/or heavy cylinders)
- In-line in roller conveyor for low capacity filling
- The modular design allows for rebuilding of existing filling machines
- Stationary on floor models for low capacity random or batch filling and/or for filling of cylinders in different sizes /with different valves

Your safety

- Ex marking according to the ATEX Directive and applicable EN standards: **CE** **Ex** II 2G Ex h IIB T3 Gb



UFM universal filling machine with double centring device for automatic filling of industrial cylinders with centre valves



- All filling machines are intended for operation in hazardous areas classified as Zone 1 or Zone 2 according to EN/IEC 60079-10-1
- All filling machines are designed and validated in accordance with a certified ISO:9001 quality management system; furthermore, they are designed according to all relevant requirements set out in applicable EU Directives
- All filling machines have weighing Accuracy Classification C3 according to OIML R 76/EN45501

8 UFM universal filling machines mounted on filling carrousel

9 UFM universal filling machine with three filling heads for fully automatic filling of domestic cylinders with three different types of centre valves

10 Adjustable HMI/CUC controller – easy to use and program

11 UFM universal filling machine with mass flow meter