

*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 carousel, in-line in conveyor, or as stand-alone unit
- Flexible to different cylinder diameters, heights and cylinder valves
- Modular design with thoroughly tested components
- Competitive price



- 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

**Your benefits**

- Satisfied end-users due to accurately filled cylinders
- Savings on LPG because of high filling accuracy and intelligent filling software
- 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
- Stationary on floor models for low capacity random or batch filling and/or for filling of cylinders in different sizes /with different valves

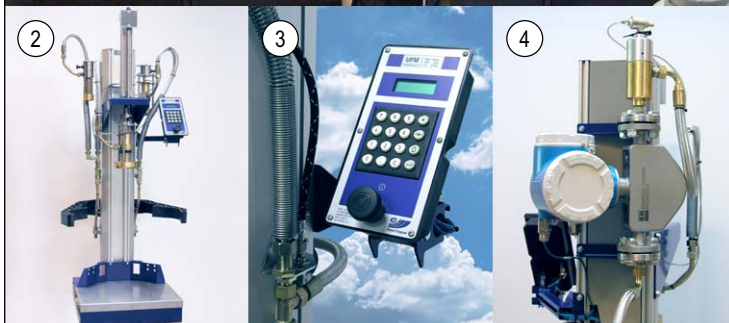


*UFM universal filling machine with double centring device for automatic filling of industrial cylinders with centre valves*



**Your safety**

- All equipment and machines in the filling system are EU approved and designed in accordance with current EU directives EN 50014, EN 50020, EN 50081, EN 50082, EN 55022, incl. the ATEX Directive (94/9/EC)
- All equipment and machines in the filling system are designed for use in hazardous areas classified as Zone 1 according to IEC 79-10 and Class I, Division 1 according to NEC (USA), article 500
- Filling machines and check scales have weighing Accuracy Classification C3 according to OIML R 76/EN45501
- National/local approvals



- 1 UFM universal filling machines mounted on filling carrousel
- 2 UFM universal filling machine with three filling heads for fully automatic filling of domestic cylinders with three different types of centre valves
- 3 Adjustable HMI/CUC controller – easy to use and program
- 4 UFM universal filling machine with mass flow meter