CARROUSEL FILLING SYSTEMS

Kosan Crisplant’s carrousel filling system is designed for safe and effective filling of all kinds of LPG cylinders.

- The most effective way of filling LPG cylinders
- High capacity filling, up to 1,800 cylinders per hour
- Fully automatic cylinder flow
- High safety level thanks to intrinsically safe network
- Decentralized control units independent of PC’s
- Rapid encoding or automatic reading of cylinder tare
- Control system uptime: 99% – the best on the market
- Total overview of the filling production thanks to PC data collection

Equipment in hazardous area:
1. Chain conveyor
2. Encoding station
3. Introduction and ejection units
4. Filling carrousel and filling machines
5. Check scale
6. Sort-out conveyor
7. Leak detector
8. Power and data interface

Equipment in non-hazardous area:
A. PC incl. software and database for filling data
B. Modem for connection to KC on-line service
C. Printer for printing reports

Example of carrousel filling system
Electronic check scale

Your benefits

- Low installation costs and high safety thanks to intrinsically safe network
- Focus on ergonomics at central tare encoding station
- Few operators and minimized risk of human errors
- No mechanical wear on electrical control equipment, non-touch sensors and swivel connectors
- Optimal logistics and high output (e.g. sorting of cylinders for maintenance before filling)
- Optimal PC data collection tool for effective filling and maintenance
- Capacity increase is possible
- Same user interface (HMI/CUC controller) on all machines

Your possibilities

- Semi-automatic or fully automatic system according to valve type
- Automation level can be upgraded according to actual and future needs

Your safety

- Ex marking according to the ATEX Directive and applicable EN standards:
  - II 2G Ex h IIB T3 Gb
- All equipment and machines in the filling system are intended for operation in hazardous areas classified as Zone 1 or Zone 2 according to EN/IEC 60079-10-1
- All equipment and machines in the filling system 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
- Filling machines and check scales have weighing Accuracy Classification C3 according to OIML R 76/EN45501

From 8 to 42 filling machines on the carrousel platform – capacity can be adapted to actual and future needs

Filling machines and filling heads adapted to cylinders and cylinder valves

PC placed in non-hazardous area can be connected to the system

Quick and professional service backup by remote control available

ATEX approval certificate