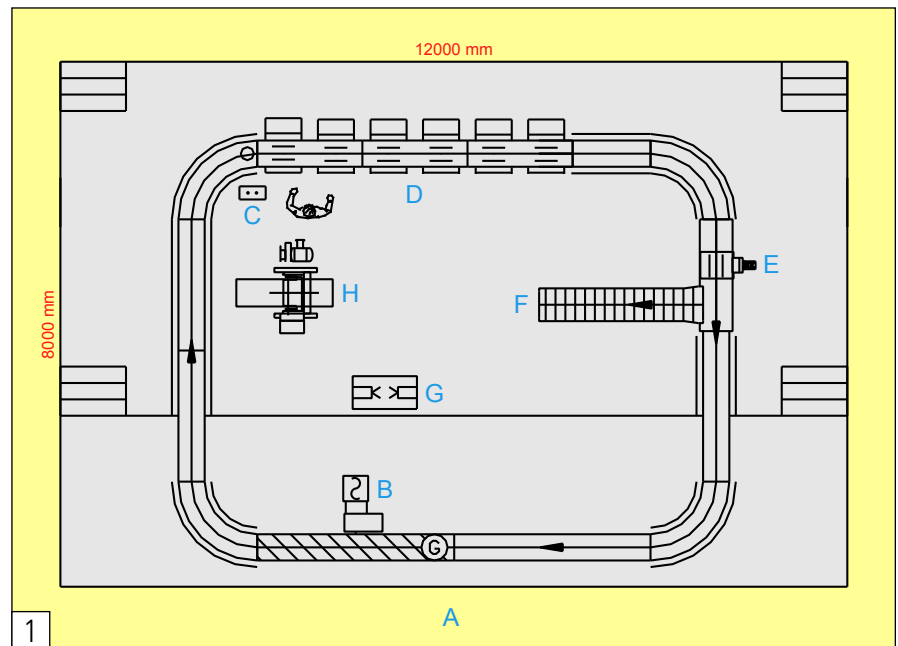


IN-LINE FILLING SYSTEMS

Kosan Crisplant's in-line filling systems are designed for safe and efficient filling and checking of all kinds of LPG cylinders.

- Suitable system for low capacity filling of industrial cylinders
- Capacity between 50 and 250 cylinders per hour
- Semi-automatic handling of cylinders
- Flexible to different cylinder diameters, heights and cylinder valves
- Filling machines can perform both filling and check weighing
- Flexible solutions – with possibilities of expansion
- Small investment



Example of in-line filling system with filling machines in-line in chain conveyor

- | | |
|---|--|
| A Unloading/loading area | E Check scale and manual leak detector |
| B Driving unit for chain conveyor | F Roller conveyor for rejected cylinders |
| C Control desk for control of cylinder flow | G Cylinder clamp |
| D Filling machines | H Tilttable evacuation rack |



UFM universal filling machines in-line in roller conveyor

Your benefits

- Low installation costs
- High safety thanks to intrinsically safe network
- Focus on ergonomics
- Minimum manual cylinder handling
- Includes automatics for regulation of cylinder flow
- Controlled cylinder logistics
- Ready for communication with PC for data collection
- Capacity increase is possible

Your possibilities

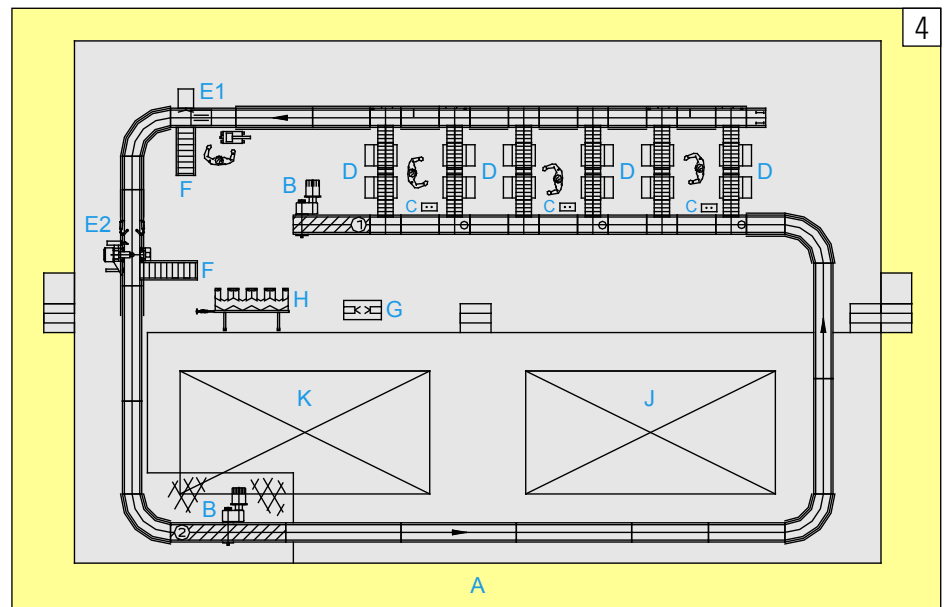
- Manual or semi-automatic filling head according to valve type
- Parallel filling lines for increased capacity
- 1 to 8 filling machines per filling line
- Weighing principle or mass flow principle
- Can be integrated in chain conveyor or roller conveyor
- Manual or semi-automatic handling of cylinders
- Filling of both domestic and industrial cylinders
- Automation level can be upgraded according to actual and future needs

Your safety

- Ex marking according to the ATEX Directive and applicable EN standards: **CE** **Ex** 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



3
In-line filling system with roller conveyor



Example of in-line filling system with filling machines in-line in roller conveyor

- | | | | |
|----|---|---|--|
| A | Unloading/loading area | F | Roller conveyor for rejected cylinders |
| B | Driving unit for chain conveyor | G | Cylinder clamp |
| C | Control desk for control of cylinder flow | H | Evacuation rack |
| D | Filling machines | J | Storage area for empty cylinders |
| E1 | Check scale | K | Storage area for filled cylinders |
| E2 | Electronic leak detector | | |