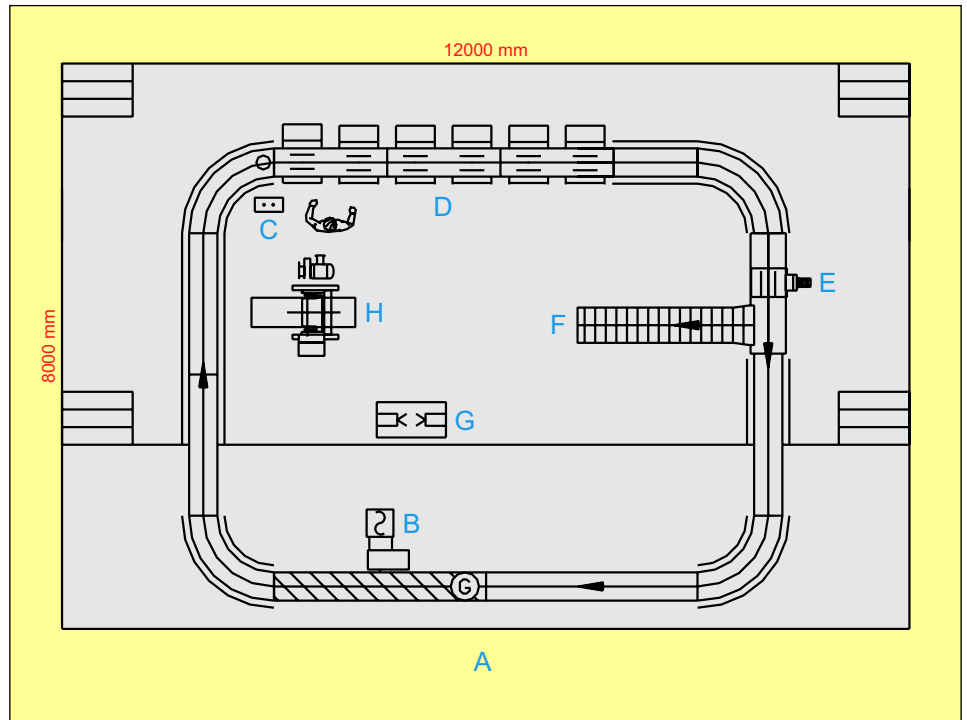


Kosan Crisplant's in-line filling systems are designed for safe and efficient filling and checking of all kinds of LPG cylinders.

- 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 Tiltable 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

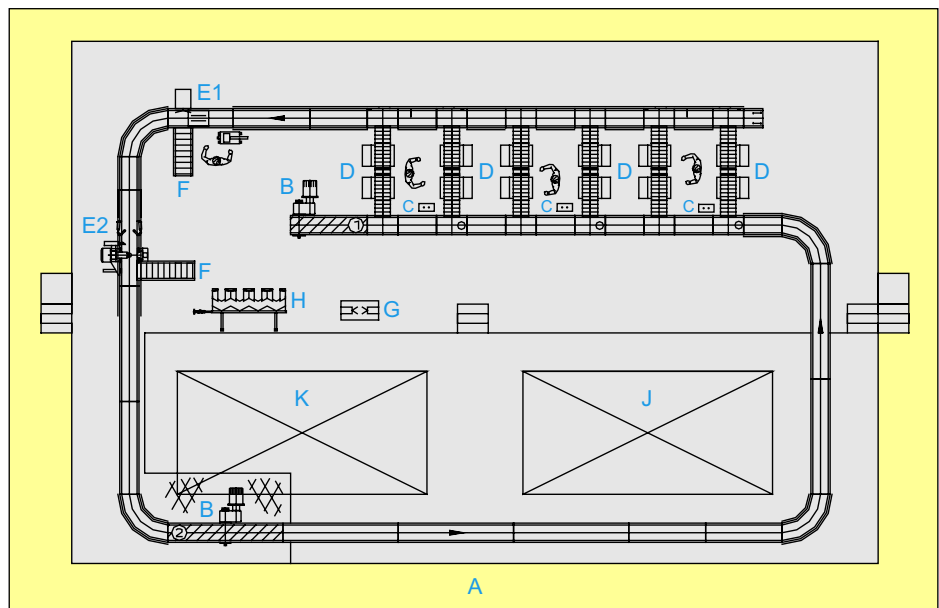
- Manual or semi-automatic filling head according to valve type
- Parallel filling lines for increased capacity
- 1 to 8 filling machines per filling line
- Weighing principle or mass flow principle
- Can be integrated in chain conveyor or roller conveyor
- Manual or semi-automatic handling of cylinders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

Your safety

- All in-line filling systems 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 in-line filling systems 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
- All in-line filling systems have weighing Accuracy Classification C3 according to OIML R 76/EN45501
- National/local approvals



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 | |