

SIMPLEX Loss-In-Weight Feeders, PHP/PLP Types



- Continuous gravimetric feeding of liquids
- Feed rate 0.3 to 7,000 l/h
- Insensitivity to vibration – high feed constancy
- Contact parts of stainless steel – almost maintenance-free
- Favourably priced, individual system solutions

Application

SIMPLEX Loss-In-Weight Feeders of the PHP/PHP types, used in production plants and technical schools, are designed for continuous gravimetric feeding of liquids, e.g. plasticizers, additives, aromatics, odiferous agents, oils, and fats. Feeders can be equipped with various pump systems.

Industries

- Chemical
- Plastics
- Detergent
- Food
- Animal feed
- Fertilizer
- Environmental

Equipment

The loss-in-weight feeder comprises:

- Weighing section with load cells
- Stainless steel hopper
- Flexible connectors
- Feed pump with AC motor (option)
- Hopper heating (option)
- Hopper insulation (option)
- Agitator with AC motor (option)

Operating Principle

Loss-in-weight feeders operate on the principle of controlled material discharge.

The loss in weight per unit time corresponds to the actual feed rate. The difference between actual feed rate and setpoint, determined by comparison, forms the control output to the downstream feeder control circuit.

With loss-in-weight feeders, inlet and outlet are connected with the use of flexible connectors, so that the material flow is totally enclosed. The feed rate range is from 0.3 to 7.000 l/hr (15,000 kg/hr). Feed accuracy and constancy are better than $\pm 0,5\%$.



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