

## Plate and Frame Type Filter Press

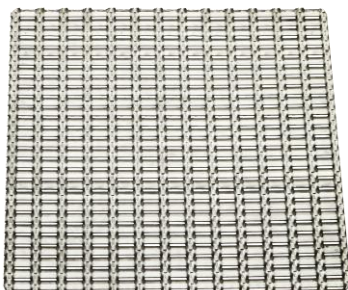
- **Totally enclosed sheet filter system eliminating undesirable product loss**
- **Enclosed design allows for CIP cleaning & SIP sterilization**
- **Mechanical dehydration ensures higher yield & reduction in residual moisture in the filter cake**
- **Mechanical dehydration allows for a dry compact cake in a short time when compared to typical gas drying**
- **Utilizes standard depth filter sheets for maximum selectivity**
- **Sizes from 200 x 200 mm , 400 x 400 mm and 600 x 600 mm available for maximum scalability**
- **Can be equipped with automatic plate shifters and cleaning portals**
- **Filter plate & frame materials are available in 316L & 316 stainless steel**

Leistung's PF series plate & frame type filter press is suitable for coarse, polishing and sterilizing filtration duties. They used in all branches: foodstuffs and drinks, chemistry, pharmaceuticals or in the environmental sector. Filter presses are pressure filters in which a filter package formed by filter plates & filter frames or chamber plates. Filter plates & filter frames are installed in a stand between a "fix cover" and a "loose cover." These elements are plane parallel to each other and are pressed together by a fixed cover and the loose cover. The fixed cover is connected to the traverse via connectors and tie bars. Together they form the press stand. The filter package is pressed together by a pressure unit, which is incorporated in the traverse and acts on a loose cover.

Between the individual filter plates there are filter pads, which have an outward sealing function under the pressure applied. The filtrate is conveyed into the chambers formed by the filter element via a pump. The filtrate passes through the filter medium, leaves filter via internal or external outlet channels and is conveyed further according to its intended usage.

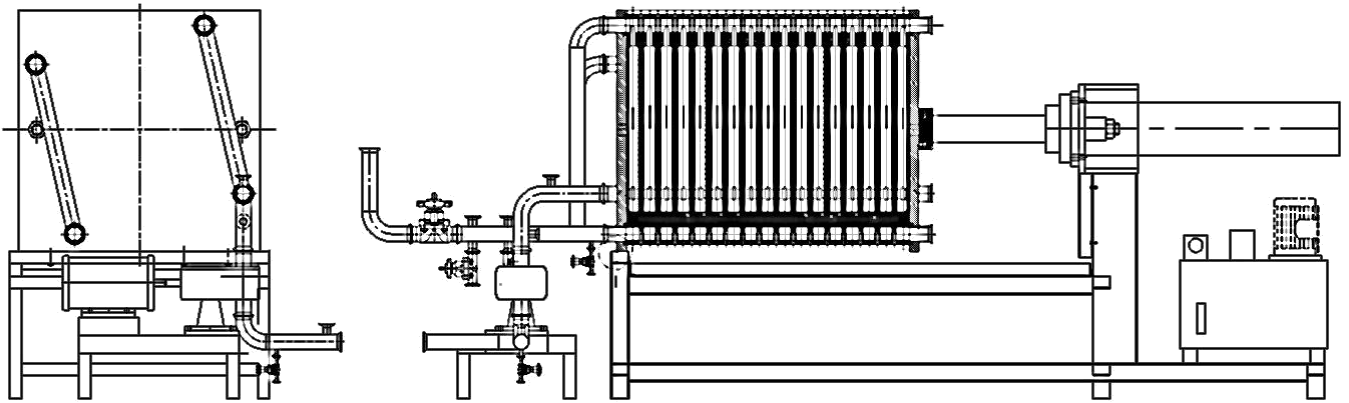
Filtration produces a filter cake, which can be washed if required.

The filtration capacity, which mainly depends on flow geometry of a plate, has been increased by use of screen. The effective filtration area is therefore 40% more than the perforated screen.



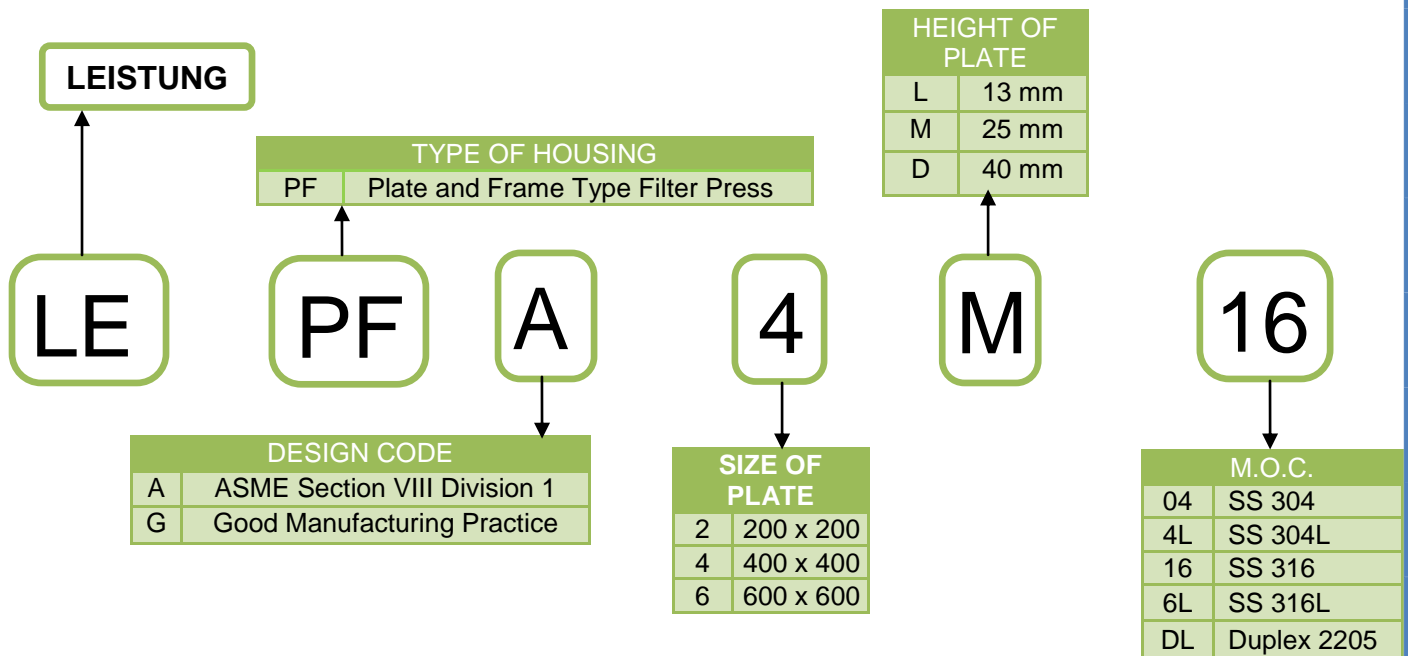
| Technical Data                |  |
|-------------------------------|--|
| <b>No. of Plates</b>          | As per requirement                                     |
| <b>Available Plate Size</b>   | 200 x 200, 400 x 400, 600 x 600 mm                     |
| <b>Plate Height</b>           | 13 mm, 25 mm, 40 mm                                    |
| <b>MOC</b>                    | SS – 304, 304L, 316, 316L, Duplex                      |
| <b>Media</b>                  | Liquid & Semi-liquid products                          |
| <b>Pressure Rating</b>        | 1 – 15 bar   |
| <b>Temperature Rating</b>     | -25°C to +65°C, more on request                        |
| <b>Closure</b>                | Screwed / Hydraulic                                    |
| <b>Sealing material</b>       | EPDM, Silicon, FKM /FPM (fluoroelastomer)              |
| <b>Support</b>                | Mounted on Skid  |
| <b>Surface Finish</b>         | Matt Finish, Mirror Finish                             |
| <b>Optional Finish</b>        | Electro polish on plates and frames                    |
| <b>Options</b>                | Centrifugal, lobe or gear pump for pressure filtration |
| <b>Accessories (Optional)</b> | Pressure Gauge, Vent Valve, Drain Valve                |

Leistung PF series plate and frame housing consists an innovative, rouge design, high performance screen with an open filtration area that is 40% larger than perforated screens. The unique geometry of this screen optimizes the flow path and enables full use of filtration area. Increased filter area translates into better flow distribution. This optimized filter sheet performance results in longer service life.



## Ordering Chart

### ORDER IDENTIFICATION NUMBER



### Technical Data

#### PF Series Plate and Frame Type Filter Press

| Sr. No. | Size of Plate | Filtering Area per Plate (m <sup>2</sup> ) | Cake Holding Capacity per Frame (Liters) |       |        |
|---------|---------------|--|--|-------|--------|
|         |               |  | 13 mm                                    | 25 mm | 40 mm  |
| 1       | 200 x 200     | 0.057                                      | 0.375                                    | -     | -      |
| 2       | 400 x 400     | 0.265                                      | 1.710                                    | 3.310 | 5.280  |
| 3       | 600 x 600     | 0.640                                      | 4.000                                    | 7.700 | 12.700 |

In case of special application conditions, please e-mail at: [rnd@leistung.in](mailto:rnd@leistung.in)  
The technical specifications are subject to change without notice.