

**SOLID-EJECTING
DISC STACK SEPARATORS**



CE

GRUPPO

PIERALISI

SOLID-EJECTING DISC STACK SEPARATORS

Continuous solid/liquid separation and solid/liquid/liquid separation

The PIERALISI FPC-type series covers the range of small- to medium-size disc stack separators with automatic solid discharge. It is designed for the continuous separation of finely dispersed, sedimenting solid particles from the entering mother liquid.

If necessary, two immiscible liquid phases of different density can be separated simultaneously in the same process step.

OPERATING PRINCIPLE

The product enters the feed zone of the separator bowl through a stationary feed pipe. The incoming liquid is accelerated to full rotational speed by means of the distributor.

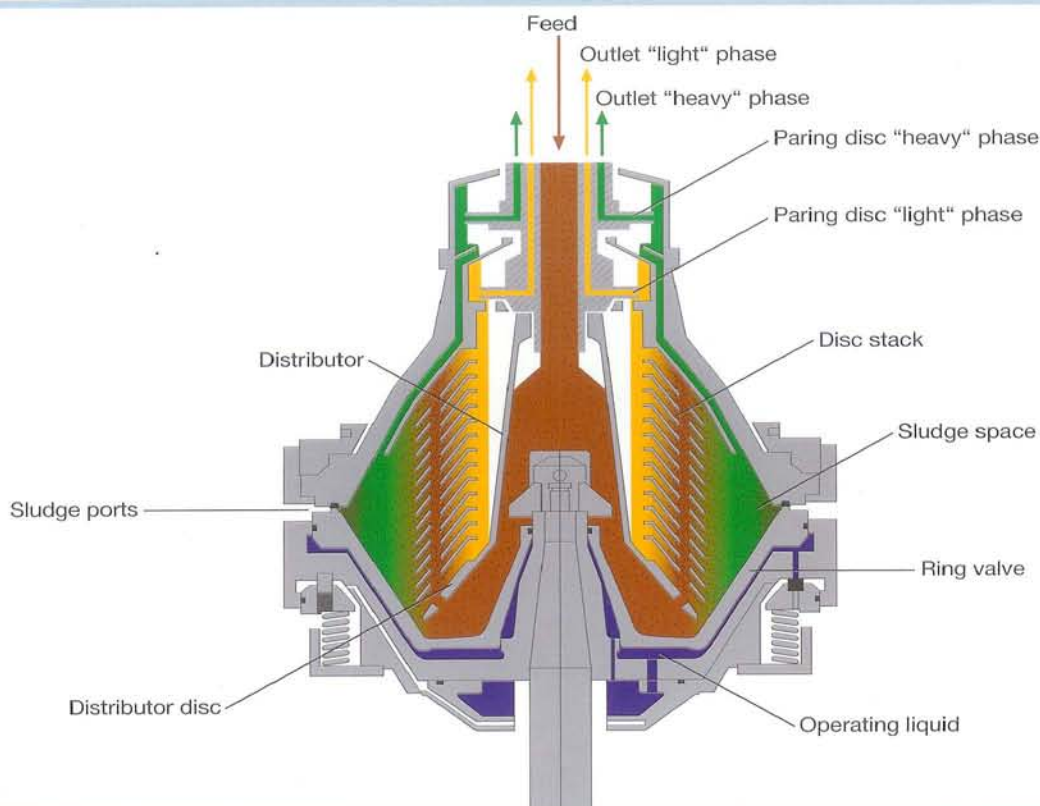
The accelerated liquid flows outwards along the underside of the distributor disc.

When the zone of maximum

g-force is reached, the flow direction changes, the liquid is conveyed towards the center of the bowl where it is discharged under pressure by means of a stationary paring disc.

While flowing through the disc stack, the solid particles sediment towards the underside of the discs and then move towards the periphery of the bowl where they accumulate in the sludge space.

A hydraulically operated ring valve opens a number of peripheral ports at preset intervals, so the collected solids are discharged owing to the centrifugal force.



PIERALISI SEPARATORS

ALL PARTS IN CONTACT WITH THE PRODUCT ARE IN STAINLESS STEEL

MATERIALS

- All parts in contact with the product are in stainless steel
- Seals and O-rings available in NBR, EPDM, Viton, Nitrile. Other materials on request.

VARIOUS EXECUTIONS

- Machine designed for solid/liquid/liquid separation (purifier/concentrator) with pressurized discharge of both liquid phases.
- Cost-saving execution with open liquid outlet and bottom casing made of painted carbon steel.
- Ex-proof execution.
- Inert gas purgeable.

WIDE RANGE OF APPLICATIONS

The PIERALISI disc stack separators can be used effectively for various processes.

The following fields of applications are mentioned by way of example.

- Mechanical Industry: cleaning of lubricants and washing liquids.
- Chemical Industry:



pigments, additives, dressing processes, degumming.

- Pharmaceutical Industry: clarification of fermentation broth, treatment of plants.
- Food Industry: fruit juices, wine, milk, fats and oils
- Environmental protection: slop oil and organic solvent

recovery, separation of heavy metals and heavy metal compounds.

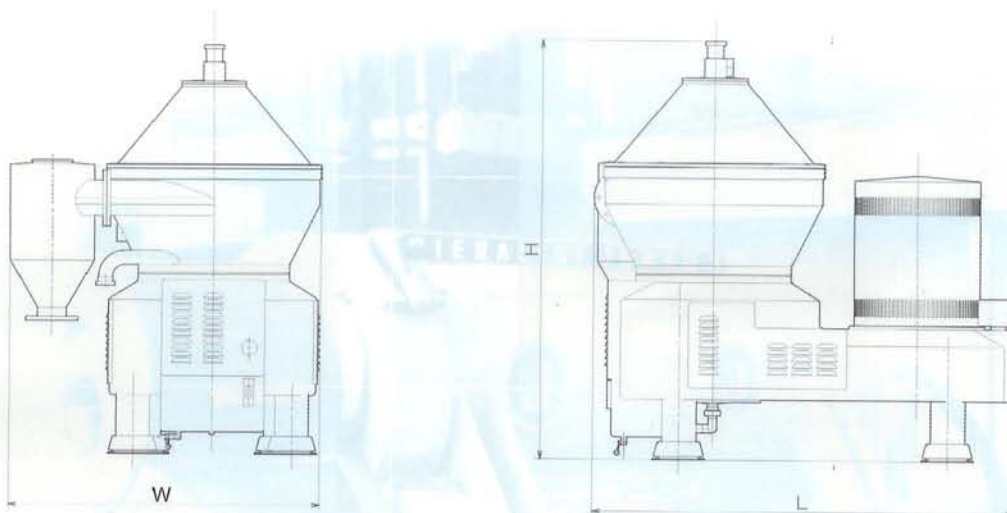
TECHNICAL DATA

The range of PIERALISI solid-ejecting disc stack separators is available as follows:

| | FPC 6 | FPC 12 | FPC 18 |
|-----------------------------------------------|--------|--------|--------|
| Bowl volume (litres) | 10 | 14 | 22.4 |
| Sludge space (litres) | 4 | 7 | 11.5 |
| Bowl speed (rpm) | 7,166 | 6,468 | 6,450 |
| Centrifugal force at max. bowl diameter (x g) | 9,070 | 9,270 | 10,000 |
| Installed motor power (kW) | 7.5/11 | 11/15 | 18.5 |

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DIMENSIONS AND WEIGHTS



| | Length L (mm) | Width W (mm) | Height H (mm) | Weight incl. motor (kg) |
|---------------|------------------|-----------------|------------------|----------------------------|
| FPC 6 | 1,300 | 900 | 1,370 | 1,160 |
| FPC 12 | 1,400 | 930 | 1,390 | 1,230 |
| FPC 18 | 1,630 | 1,235 | 1,635 | 1,690 |

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