

IPCO FID Reducer

Fuel Conditioning Before the Separator

The IPCO FID Reducer is installed directly before the separator to mechanically condition the fuel prior to centrifuging. Using IPCO Power's high-shear homogenization technology, comparable to a "coffee grinder for fuel", the system improves separator efficiency and reduces sludge generation.

By conditioning the fuel before separation, the FID Reducer helps improve contaminant removal, reduce separator workload, and maximize the usable fraction of bunkered fuel.



Key Benefits

- Reduces sludge generation by typically 50–80%*
- Improves separator efficiency
- Extends separator desludging intervals
- Reduces automatic filter contamination
- Maximizes the usable fraction of bunkered fuel
- Reduces waste handling and disposal
- Mechanical treatment only — no additives required
- Designed for continuous 24/7 operation

* Depending on fuel quality, separator configuration, and operating conditions.

How It Works

The IPCO homogenizer mechanically conditions the fuel before centrifuging using high shear forces inside the homogenizing chamber. This improves separator efficiency, resulting in lower sludge generation and a more stable fuel treatment operation.

Technical Features

- High-shear vertical homogenizer
- Aluminum 7075-T6 housing
- Proprietary hard-coat protection
- Magnetic coupling (no mechanical seals)
- Self-lubricating homogenizing chamber
- Suitable for HFO, VLSFO, ULSFO, MDO and biofuel blends
- Continuous-duty marine design

Capacity and power:

Higher capacities are available on request

FID Type	Capacity l/h	Power kW
FID 015	1.500	4/4,8
FID 045	4.500	7,5/9
FID 090	9.000	11/13
FID 120	12.000	11/13
FID 300	30.000	22/27

General Specifications

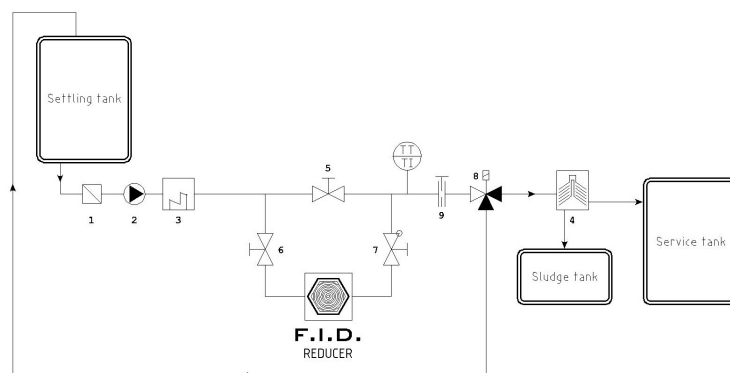
- Max pressure: 12 bar
- Minimum fuel temperature for HFO380: 50°C
- Power supply: 400V @ 50Hz / 460V @ 60Hz
- Control panel: 230V @ 50Hz / 250V @ 60Hz
- Protection class: IP54
- Flange connections: SAE flange
(Counter SAE flange supplied with system)
- Paint system frame: RAL6018 (frame optional)

Installation Position

The FID Reducer is designed for installation directly before the separator.

Typical configurations:

- One FID Reducer per separator
- Centralized installation before multiple separators



Dimensions:

FID 045

FID 090

FID 120

