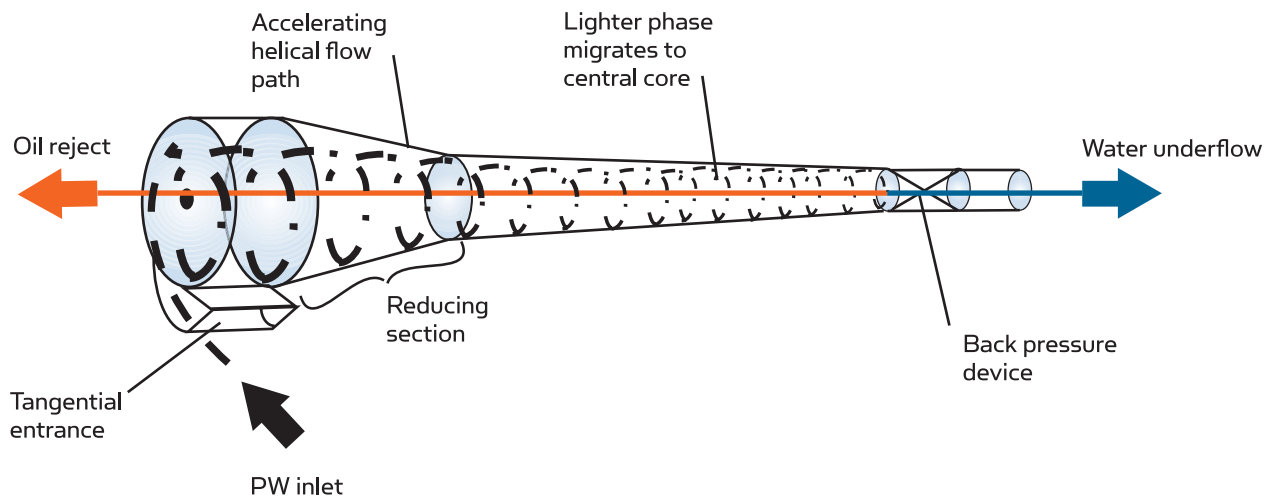


ProSpin HYDROCYCLONES



As part of effectively treating large volumes of produced water, the ProSpin hydrocyclone separates liquids that have different densities, especially oil and water, by taking advantage of gravity and centrifugal forces. The ProSpin hydrocyclone is an excellent primary separation solution in most offshore applications where sufficient process pressure is available, since it has a small footprint and is highly efficient at separating free oil from water.

ProSpin FLOW PATH



FEATURES

- Customizable size and materials
- Small footprint
- Good turndown
- No moving parts
- Simple controls
- Minimal maintenance
- No external utilities
- Quality construction
- Motion-insensitive
- No chemicals

OPERATING PRINCIPLES



With sufficient pressure from the separator or a pump to serve as a driver, the hydrocyclone takes in oily water at the tangential entrance and moves it through the reducing section. The fluid travels through the narrowing chamber, flowing along the walls and accelerating

as it progresses, developing forces that are needed to separate the oil from the water.

The denser fluid moves to the walls of the hydrocyclone and is removed at the downstream fluid outlet (underflow). The less dense fluid is drawn into the low-pressure core and, by applying a back pressure

to the outlet, flows back up the hydrocyclone to be removed at the upstream outlet orifice (overflow).

The ProSpin is unaffected by ship or platform motions and delivers typical removal efficiencies of 85-95% of all oil droplets >12-15 microns with effluent quality of 25-100 mg/l OiW.

APPLICATIONS

UPSTREAM PRODUCTION

- Produced water treatment for re-injection or disposal
- Bulk water removal
- Pre-separation ahead of an IGF or DGF

DOWNSTREAM REFINING AND PROCESSING

- Desalter water processing
- API separator replacement
- Ethylene quench water treatment



REFERENCES

Available upon request.

FOR MORE INFORMATION

Contact your nearest ProSep Inc., office.



5353 W. Sam Houston
Parkway N., Ste. 150
Houston, Texas 77041, USA
Tel: 1 281 504 2040
E-mail: sales@prosep.com
www.prosep.com



Kokstaddalen 4
N-5257 Bergen, Norway
Postal address:
PO Box 106
N-5863 Bergen, Norway
Tel: 47 55 52 94 00
E-mail: sales@propure.com
www.propure.com



Trust Tower, Third Floor
Building No. 125, Road No. 1702
P.O. Box No. 2215
Diplomatic Area, Manama, Bahrain
Tel: +973 16 500 705
E-mail: sales@propure.com
www.propure.com



ProSep AP Sdn Bhd
Unit 19A-10-2, Wisma UOA
No 19 Jalan Pinang
50450 Kuala Lumpur, Malaysia
Tel: +603 2715 6680
E-mail: sales@prosep.com
www.prosepinc.com