

# ADOHC

## Advanced Deoiling Hydrocyclones

### Maximum removal efficiency of dispersed oils from produced water

NOV's ADOHC liner family represents the current state of the art in liquid-liquid hydrocyclone design. The technology provides strong performance over a wide operating envelope enabling successful integration into most produced water systems. Flexible mechanical design allows the liner to be compatible with other products on the market. The ADOHC can be provided with unique design features that help enhance fouling tolerance and allow the liner to be more easily cleaned in the field. For debottlenecking purposes or ultra-low footprint applications, high-density packaging arrangements can be offered.

#### Benefits:

- True high-performance design
- Suitable as a pre-deoiling liner as well as traditional deoiling
- Wide operating envelope, even at low pressure differentials
- Non-stick coatings and 'easy-clean' designs can be offered
- A variety of different packaging densities available
- Fully backward compatible with NOV's HE2 and TL style liners
- Compatible with most other 'high-performance' liners
- Suitable for condensate-water systems where very high liner pressure drops may be beneficial
- Available as a compartmentalized design to further support turndown
- Very low pressure fluids can be boosted with NOV's Mono brand progressive cavity pumps to create a dynamic loop offering 100% turndown
- Performance can be augmented with NOV's Mare's Tail® pre-coalescer technology
- Can be offered as part of a fully mobile and skidded WaterWolf™ treatment system
- Performance can be demonstrated in our Flotta test centre, with site testing skids, or by our in-house modeling tools

#### Design specifications

Parameter	Value
Nominal liner size	20 mm / 1"
Maximum typical inlet OiW concentration (predeoiling/normal)	25000 ppmv / 2000 ppmv
Typical outlet concentration (predeoiling/normal)	500-1000 ppmv / 50-100 ppmv
Lowest achievable outlet concentration	<10 ppmv
Applicable differential pressure range	1-30 barg
Reject rate	2-5% depending on application
Erosion resistance designs available	Yes
Associated products	NOV Mono Pumps, Mare's Tail®, WaterWolf, CFU