

Interchangeable Wellhead Desander

Product Code | IWD

Features

- Cyclone separator insert is interchangeable with a sand filter
- Dual pot system with high pressure by-pass and dual isolation valves
- Lifting support for sand filter and cyclone separator interchange
- High efficiency of solids separation (up to 99%) at high flow rates
- Handles high flow rates with minimal back pressure
- Continuous sand disposal by gravity and water flushing
- Separates a wide range of particle sizes from the well stream

Benefits

- Flexible solids separation configuration on a single wellhead package
- Eliminates erosion on choke manifold and downstream process equipment
- Enables high rate well testing
- Allows representative sand sampling and sand production rate estimation

The Hunting Interchangeable Wellhead Desander offers a flexible high pressure sand management solution upstream of the choke manifold during well testing, frac-flowback and well clean-up operations.

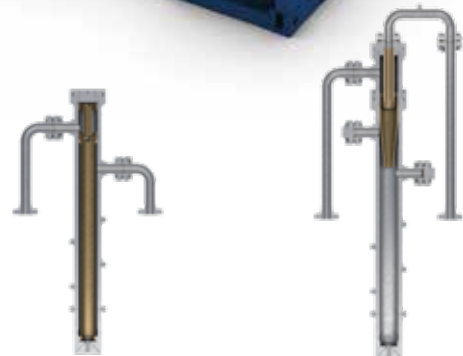
Cyclonic de-sanders have a high efficiency of separation at high flow-rates with minimal pressure drop and can handle both a wider range of particle sizes and larger volumes of solids when compared to sand filters.

The cyclonic and sand filter separation techniques are considered complimentary and present a challenge to the well test service company in making an investment decision on one technique or the other without prior knowledge of the well conditions.

The Hunting Interchangeable Wellhead Desander features a dual pot system with interchangeable cyclone separators and sand filters offering the unique benefit of system configuration with both techniques to cover a wider range of well conditions from a single package.

The Hunting cyclonic technology has been independently flow loop tested to verify solids separation performance.

→ See overleaf for technical information



Sand Filter Configuration

The sand filter is set up in the Type A configuration.

Cyclone Configuration

The sand filter is removed, the cyclone separation inserted and the pipework configured for cyclone operation.



TECHNICAL INFORMATION

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Model	Hunting IWD 10K
Service	H2S
Fluid Class	DD
Working Pressure psi [bar]	10,000 [690]
Working Temperature °C [°F]	-29 [0] up to 180 [350]
Filter Sizes [mu]	100 up to 800
Filter Volume - liter	2x 47 liter
Cyclone Sand Volume - liter	2x 70 liter
Filter Flow Direction	inside → outside
Maximum Filter ΔPpsi [bar]	1,500 [100]
Flow Capacity⁽¹⁾	
Gas, Mmscf [m ³ / day]	65 [1.850.000]
Oil, bbls /day	5000
Standard Connections⁽²⁾	
Gas / Oil Inlet	API Flange 4-1/16" 10K
Gas / Oil Outlet	API Flange 3-1/16" 10K
Drain	Union 2" Fig.1502
Operational Footprint LxB cm	244 x 244
Transport Size LxBxH cm	6025 x 244 x 244 (20ft Container Skid)
Weight, kg [lbm]	12.000 [26,455]
Certifications	
Design	Type Approval
Manufacturing	Declaration of Conformity
Documentation	Quality File
Applicable Codes	PED 2014/68/EU
	ASME B31.3
	ASME VIII div.2
	API 6A
	NACE MR 01-75 (ISO 15156-1,-2)
	DNV 2.7-1

NOTES

- (1) Flow capacity is dependant on many factors. Please contact Hunting for advice.
- (2) Connections cross-overs can be added as per customer requirements.
- (3) Hunting has a Dual Pot Sand Filter Design inside a 20ft Container Skid.