

Dual Pot Sand Filter (Type AH)

Product Code | DSF-AH

Features

- Separates sand and other solid particles from the well stream
- Dual pot system with high pressure by-pass and dual isolation valves
- Switching flow between pots for continuous sand removal
- Horizontal operation and transportation without need to lift to vertical
- Telescopic lifting support for convenient filter replacement
- Quick union on pot vessels for rapid filter replacement & maintenance
- Optional water jet sand flushing system
- Optional Sandbox for sand disposal

Benefits

- Simple to operate
- Eliminates erosion on choke manifold and downstream process equipment
- Enables high rate well testing
- Can be operated in areas with height restrictions
- Allows representative sand sampling and sand production rate estimation

Wellhead sand filtration is established as an industry standard technique for sand and solids removal upstream of the choke manifold during well testing, frac-flowback and well clean-up operations.

The Hunting Dual Pot Sand Filters are available in a broad range of sizes and configurations, up to 20,000psi WP. These products are in service globally with major production testing companies.

The principle of sand filtering is well understood, with the minimum size of the separated sand particles determined by the slot size in the sand filter in each pot which are available in a range from 100 to 800 microns. Continuous operation is achieved by switching the flow between the two pots and draining the collected sand from the bottom of the pot that is isolated from the flow. The Type AH Sand Filter is configured for the well to flow from the inside of the filter and the sand to collect therein. The sand can be removed with the filter or purged with water jets.

The Type AH is custom configured for use in an area where there are height restrictions and is both operated and transported in the horizontal position. It does not need to be swivelled upright for operation and can be used in areas where there are height restrictions.

Optional equipment includes a sand flushing system using pressurized water injection through nozzles mounted on the pot vessel outside diameter and a sandbox for collection of the solids slurry exiting the 2" diameter drain valve.



→ See overleaf for technical information



TECHNICAL INFORMATION

Dual Pot Sand Filter (Type AH)

DSF-AH

PRODUCT CODE

Model	Hunting DSF-AH 5K	Hunting DSF-AH 3-1/16 10K	Hunting DSF-AH 4-1/16 10K
Service	H2S	H2S	H2S
Fluid Class	DD	DD	DD
Working Pressure psi [bar]	5,000 [345]	10,000 [690]	10,000 [690]
Working Temperature °C [°F]	-29 [0] up to 180 [350]	-29 [0] up to 180 [350]	-29 [0] up to 180 [350]
Filter Sizes [mu]	100 up to 800	100 up to 800	100 up to 800
Filter Volume - liter	47 liter	47 liter	47 liter
Filter Flow Direction	inside → outside	inside → outside	inside → outside
Maximum Filter ΔPpsi [bar]	1,500 [100]	1,500 [100]	1,500 [100]
Flow Capacity⁽¹⁾			
Gas, Mmscf [m ³ / day]	50 [1.500.000]	50 [1.500.000]	100 [3.000.000]
Oil, bbls /day	5000	5000	10,000
Standard Connections⁽²⁾			
Gas / Oil Inlet	API Flange 5-1/8" 5K	API Flange 3-1/16" 10K	API Flange 4-1/16" 10K
Gas / Oil Outlet	API Flange 5-1/8" 5K	API Flange 3-1/16" 10K	API Flange 4-1/16" 10K
Drain	Union 3" Fig.1502	Union 3" Fig.1502	Union 3" Fig.1502
Operational Footprint LxB cm	425 x 245	425 x 245	425 x 245
Transport Size LxBxH cm	425 x 245 x 300	425 x 245 x 300	425 x 245 x 300
Weight, kg [lbm]	12.000 [26.455]	10.000 [30.864]	12.000 [30.864]
Certifications			
Design	Type Approval	Type Approval	Type Approval
Manufacturing	Declaration of Conformity	Declaration of Conformity	Declaration of Conformity
Documentation	Quality File	Quality File	Quality File
Applicable Codes	PED 2014/68/EU	PED 2014/68/EU	PED 2014/68/EU
	ASME B31.3	ASME B31.3	ASME B31.3
	ASME VIII div.2	ASME VIII div.2	ASME VIII div.2
	API 6A	API 6A	API 6A
	NACE MR 01-75 (ISO 15156-1,-2)	NACE MR 01-75 (ISO 15156-1,-2)	NACE MR 01-75 (ISO 15156-1,-2)
	DNV 2.7-1	DNV 2.7-1	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.