

Dual Pot Sand Filter (Type A) Product Code | DSF-A

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
- 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
- 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 A 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.

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 A)



PRODUCT CODE DSF-A

| Model | Hunting DSF-A 5K | Hunting DSF-A 10K | Hunting DSF-A 15K | Hunting DSF-A 20K |
|---|--|--|--------------------------------|--------------------------------|
| Service | H2S | H2S | H2S | H2S |
| Fluid Class | DD | DD | DD | DD |
| Working Pressure psi [bar] | 5,000 [345] | 10,000 [690] | 15,000 [1035] | 20,000 [1379] |
| Working Temperature °C [°F] | -29 [0] up to 180 [350] | -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 | 100 up to 800 |
| Filter Volume - liter | 47 liter | 47 liter | 47 liter | 47 liter |
| Filter Flow Direction | inside → outside | inside → outside | inside → outside | inside → outside |
| Maximum Filter ΔPpsi [bar] | 1,500 [100] | 1,500 [100] | 2,755 [190] | 2,755 [190] |
| Flow Capacity⁽¹⁾ | | | | |
| Gas, Mmscf [m ³ / day] | 25 [750.000] | 50 [1.500.000] | 75 [2.250.000] | 100 [3.000.000] |
| Oil, bbls /day | 5000 | 5000 | 5000 | 5000 |
| Standard Connections⁽²⁾ | | | | |
| Gas / Oil Inlet | API Flange 3-1/8" 5K | API Flange 3-1/16" 10K | API Flange 3-1/16" 15K | API Flange 3-1/16" 20K |
| Gas / Oil Outlet | API Flange 3-1/8" 5K | API Flange 3-1/16" 10K | API Flange 3-1/16" 15K | API Flange 3-1/16" 20K |
| Drain | Union 2" Fig.1002 | Union 2" Fig.1502 | Union 2" Fig.2202 | API Flange 2-1/16" 20K |
| Operational Footprint LxB cm | 214 x 363 | 263 x 214 | 229 x 250 | 300 x 250 |
| Transport Size LxBxH cm | 386 x 214 x 263 Optional 20ft Container Skid ⁽³⁾ | 410 x 214 x 263 Optional 20ft Container Skid ⁽³⁾ | 429 x 229 x 250 | 450 x 300 x 250 |
| Weight, kg [lbm] | 8000 [20,944] | 9.500 [20,944] | 15.300 [33,700] | ±20.000 [44,095] |
| Certifications | | | | |
| Design | Type Approval | Type Approval | Type Approval | DVR |
| Manufacturing | Declaration of Conformity | Declaration of Conformity | Declaration of Conformity | Declaration of Conformity |
| Documentation | Quality File | Quality File | Quality File | Quality File |
| Applicable Codes | PED 2014/68/EU | PED 2014/68/EU | PED 2014/68/EU | PED 2014/68/EU |
| | ASME B31.3 | ASME B31.3 | ASME B31.3 | ASME B31.3 |
| | ASME VIII div.2 | ASME VIII div.2 | ASME VIII div.3 | ASME VIII div.3 |
| | API 6A | 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) | NACE MR 01-75 (ISO 15156-1,-2) |
| | DNV 2.7-1 | 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.
- (3) Hunting has a Dual Pot Sand Filter Design inside a 20ft Container Skid.