

## Dual-Pot Sand Filter

Remove sand and other solids from well effluent

### APPLICATIONS

- Completion cleanups
- Maximum sand-free rate tests

### BENEFITS

- Prevents erosion of downstream equipment

### FEATURES

- Two frame-mounted filter pots with telescopic lifting support
- Interconnecting piping with bypass valve and bypass drain

The dual-pot sand filter is used to remove sand and other solid particles from well effluent to prevent erosion of downstream equipment. Typical applications for the unit include completion cleanups and maximum sand-free rate tests.

This filter is typically located after the well flowhead upstream of the choke manifold. It consists of two filter pots and interconnecting piping with a bypass valve and bypass drain. The frame-mounted pots have telescopic lifting support for convenient filter replacement.

Based on a 50% solids slurry with a solids specific gravity of 2.7, the maximum sand concentration for continuous operation is approximately 10-lbm/min [4.5-kg/min] solids.



*Dual-pot sand filter.*

# Dual-Pot Sand Filter

## Specifications

| Model   | SFDP-A/SFDP-AB  | SFDP-B  | SFDP-C   |
|---|---|---|--|
| Service   | H <sub>2</sub> S  | H <sub>2</sub> S  | H <sub>2</sub> S   |
| Fluid class   | DD  | DD  | DD   |
| Working pressure, psi [MPa]   | 10,000 [69]   | 5,000 [34]  | 15,000 [103]   |
| Working temperature, degF [degC]                                      | SFDP-A: -4 to 250 [-20 to 121]<br>SFDP-AB: -4 to 350 [-20 to 177]   | -4 to 250 [-20 to 121]  | -4 to 350 [-20 to 177]   |
| Standard filter size, um  | 200   | 200   | 200  |
| Equivalent flow area, in <sup>2</sup> [mm <sup>2</sup> ] <sup>†</sup> | 11.5 [292]  | 11.5 [292]  | 11.5 [292]   |
| Max. Δp, psi [MPa]  | 1,500 [10]  | 1,500 [10]  | 2,755 [19]   |
| Connections   |   |   |  |
| Oil inlet   | 3-in Fig 1502 Female  | 3-in Fig 1002 Female  | 3¼-in 15,000-psi API-6A Flange   |
| Oil outlet  | 3-in Fig 1502 Male  | 3-in Fig 1002 Male  | 3¼-in 15,000-psi API-6A Flange   |
| Drain outlet  | 2-in Fig 1502 Male  | 2-in Fig 1002 Male  | 3¼-in 15,000-psi API-6A Flange   |
| Certifications  |   |   |  |
| Design  | Type Approval/DVR <sup>‡</sup>  | Type Approval/DVR   | EC Type Examination Module B   |
| Manufacturing   | Certificate of Conformity   | Certificate of Conformity   | EC Certificate of Conformity Module D/D1   |
| Documentation   | Quality File  | Quality File  | Quality File   |
| Applicable codes  | ASME <sup>§</sup> VIII Div. 2, API-6A (PSL-3, PR-2),<br>ANSI B31.3, H <sub>2</sub> S (NACE MR0175), CE <sup>§</sup> | ASME VIII Div. 2, API-6A (PSL-3, PR-2),<br>ANSI B31.3, H <sub>2</sub> S (NACE MR0175) | ASME VIII Div. 2, API-6A (PSL-3, PR-2),<br>ANSI B31.3, H <sub>2</sub> S (NACE MR0175),<br>CE <sup>††</sup> , DNV <sup>††</sup> |
| Footprint, ft × ft [m × m]  | 9.2 × 7.2 [2.8 × 2.2]   | 9.2 × 7.2 [2.8 × 2.2]   | 14.0 × 8.2 [4.3 × 2.5]   |
| Height, ft [m]  | 13.1 [4] (transport), 24.3 [7.4] (in use)   | 13.1 [4] (transport), 24.3 [7.4] (in use)   | 8.2 [2.5] (transport), 24.9 [7.6] (in use)   |
| Weight, lbm [kg]  | 20,944 [9,500]  | 17,636 [8,000]  | 33,700 [15,300]  |

<sup>†</sup> Equivalent flow area through sand screen (empty pot) is greater than inlet/outlet piping flow area.

<sup>‡</sup> Design Verification Review

<sup>§</sup> American Society of Mechanical Engineers

<sup>††</sup> Conformité Européenne

<sup>††</sup> Det Norske Veritas

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