

ANNEXURE-I TO PI 830691040

SPECIFICATION OF EXHAUST FILTER

Exhaust filters are highly effective filter systems, which are to be used for the separation of the oil mist from the exhaust air for oil-lubricated rotary vane vacuum Pumps. At 100 mbar the exhaust air of the exhaust filter should contain less than 0.5 ppm of residual oil particles And at 400 mbar it should contain less than 2.5 ppm.

Height or length of Exhaust filter = 385mm

Diameter of Exhaust filter, OD= 70 mm with push button type locking facility'

Internal diameter of Exhaust filter - ID 55mm

Mounting collar OD = 35mm

Mounting collar ID = 32mm

'O' ring ID for collar = 36mm

'O' ring OD for collar = 42mm

Material of filter - Epoxy Impregnated Glass Fiber

Other features: _

1. Filter media should provide greater oil separating efficiency (99.99%) with minimal oil saturation.
2. Less than 3 parts per million of oil carryover (3mg/m³).
3. Rated for continuous duty temperature to 266°F or intermittent duty temperature to 302°F.
4. Reduced sound levels by up to 4 dB(A).
5. High burst pressure with mechanical integrity to 75 PSIG.
6. ATEX applications with certification.
7. Constructed with anti-corrosive materials that better withstand water, steam and many chemicals for longer filter service life.
8. Materials are fully conductive between 2 end caps so there is no risk of static electricity build-up.
9. Pre-assembled with Viton O-ring and with orientation mark on back end cap making them easy to install and position.
10. Working medium: oil mist
11. Material: glass fibre
12. Permissible Flow=40 m³/h
13. General working pressure of oil separator filter: 0.1~1.0 Mpa
14. Initial pressure difference of oil separator filter: 0.15~0.25 bar
15. Oil separator oil content: 3~6ppm
16. Oil mist particle oil separator: $\leq 0.1 \mu\text{m}$.
17. Oil separator components: Ultra-fine glass fiber
18. Fine welding of spot welding, spot welding and the latest two-component glue.
19. Function: Separate oil and gas
20. End caps: Galvanized steel sheet
21. Inner filter core/ inner filter skeleton: Galvanized steel sheet
22. TEST STANDARD:
Filter elements are tested according to ISO 2943
Compatibility with hydraulic fluids: ISO 3968
Flow characteristics :ISO/DIS 3724
Flow fatigue characteristics ISO/DIS 4572
Filter performance test (Multi-pass test) : ISO 2942
Proof of integrity and quality: (Bubble point test) ISO 3723
Verification of the end cap stress: ISO 2941

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