



SUI SOUTHERN GAS COMPANY LIMITED
TECHNICAL SPECIFICATIONS
FILTER ELEMENTS FOR DRY GAS FILTERS
1", 2", 4" & 6" SIZE ANSI CLASS 150 LB.

Specification No.
DGF(E)-003/11
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1. **GENERAL REQUIREMENT:**

- 1.1. Suitable for fine filtration of natural gas (specific gravity = 0.60) and retention of solid elements.
- 1.2. Quantities and sizes shall be as per schedule of requirement.

2. **SPECIFIC REQUIREMENTS:**

2.1. **CONSTRUCTION & MATERIAL:**

- 2.1.1. Filter elements for dry gas filters shall be made of Non-woven fabric, Filter paper and metallic mesh pleated around the centre core (to provide large surface area and dirt holding capacity).
- 2.1.2. Center core of the filter elements shall be made of expanded / perforated metallic screen.
- 2.1.3. Upper and lower ends of the filter element shall be bonded firmly by metallic or PVC molded caps.
- 2.1.4. All metallic parts of the filter element shall be corrosion free.

2.2. **EFFICIENCY:**

- 2.2.1. Filter element shall have high solid loading capacity and independent of flow velocity.
- 2.2.2. Filter elements should be capable of removing solid particle having size of 5 microns and larger with a removal efficiency of 99.9%.
- 2.2.3. Moisture shall not affect the efficiency of filter elements.
- 2.2.4. Initial pressure loss across the element should not be more than 2 Psig.
- 2.2.5. Maximum service temperature of the element shall not be less than 240 deg. F.
- 2.2.6. The filter element or its any part shall not damage, disband or deform under a pressure of 150 psig.

Prepared By:

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Production



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2.3. DIMENSIONS:

Filter Elements For	Height	Inside dia.	Outside dia.	Minimum Filtration Area
	(mm)	(mm)	(mm)	(cm ²)
1 inch size Dry gas filters.	123	36	83	850
2 inch size Dry gas filters.	210	70	121	2000
4 inch size Dry gas filters.	283	111	201	7500
6 inch size Dry gas filters.	310	142	250	11000

3. MANDATORY REQUIREMENTS:

3.1. ISO ACCREDITATIONS:

Manufacturer must submit a valid ISO-9000 series accreditation or equivalent internationally recognized certificate along with the bid.

3.2. PRINTED LITERATURE:

Original printed technical literature, showing dimension, material, operation and performance details, must accompany the bid.

3.3. SALES TRACK RECORD:

The bidder shall provide sales track record for the last three (03) years of the similar items (as offered) supplied to the renowned oil / gas companies. The detail should include purchase order and e-mail address of the purchasing companies.

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