

IGS-M-PM-111(1)

Oct. 2018

Approved

مصوب



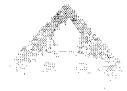
شرکت ملی گاز ایران
مدیریت پژوهش و فناوری
امور تدوین استانداردها

IGS

مشخصات فنی خرید

کارتريج فيلتر گاز خشک

Dry Gas Filter Cartridge



تاریخ: ۱۳۹۷/۸/۲۳

شماره: گ/۰/دب/۰/۳۲۸-۱۸۵۶۵



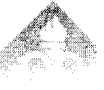
شرکت ملی گاز ایران



دفتر مدیر عامل



ابلاغ مصوبه هیأت مدیره



مدیر محترم پژوهش و فناوری



باسلام،

به استحضار می‌رساند در جلسه ۱۸۰۱ مورخ ۱۳۹۷/۸/۱۳ هیأت مدیره،
نامه شماره گ/۹/۰۰۰/۹۹۸۵۳ مورخ ۱۳۹۷/۸/۷ آن مدیریت در مورد تصویب نهایی استاندارد
به شرح زیر:

۱- دستورالعمل حمل، نصب و نگهداری کنتورهای توربینی

IGS-C-IN-106(0)

۲- مشخصات فنی خرید کربن فعال برای سیستم شیرین سازی گاز

IGS-M-CH-024(2)

۳- مشخصات فنی خرید کارتریج فیلتر گاز خشک

IGS-M-PM-111(1)

مطرح و مورد تصویب قرار گرفت.

این مصوبه در حکم مصوبه مجمع عمومی شرکت‌های تابعه محسوب و برای کلیه
شرکت‌های تابعه لازم الاجرا می‌باشد.

الهام ملکی

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FOREWORD

This standard is intended to be mainly used by NIGC and contractors, and has been prepared based on interpretation of recognized standards, technical documents, knowledge, backgrounds and experiences in natural gas industry at national and international levels. Iranian Gas Standards (IGS) are prepared, reviewed and amended by technical standard committees within NIGC Standardization division and submitted to the NIGC's "STANDARDS COUNCIL" for approval. IGS Standards are subject to revision, amendment or withdrawal, if required. Thus the latest edition of IGS shall be checked/ inquired by NIGC employees and contractors. This standard must not be modified or altered by NIGC employees or its contractors. Any deviation from normative references and / or well-known manufacturer's specifications must be reported to Standardization division. The technical standard committee welcomes comments and feedbacks about this standard, and may revise this document accordingly based on the received feedbacks.

GENERAL DEFINITIONS:

Throughout this standard the following definitions, where applicable, should be followed:

- 1- "STANDARDIZATION DIV." is organized to deal with all aspects of industry standards in NIGC. Therefore, all enquiries for clarification or amendments are requested to be directed to mentioned division.
- 2- "COMPANY": refers to National Iranian Gas Company (NIGC).
- 3- "SUPPLIER": refers to a firm who will supply the service, equipment or material to NIGC whether as the prime producer or manufacturer or a trading firm.
- 4- "SHALL ": is used where a provision is mandatory.
- 5- "SHOULD": is used where a provision is advised only.
- 6- "MAY": is used where a provision is completely discretionary.

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1. Scope

This standard specification covers the minimum requirements for material, design, testing, inspection, marking, packing and packaging of elements for the dry gas filters which are used in metering and regulating gas stations. This specification is the main part of the enquiry and purchase order. It shall be the supplier responsibility to clearly indicate any deviation from this specification.

2. References

Throughout this standard specification the following standards are referred to. The editions of these standards that are in effect at the time of issue of this standard specification shall, to the extent specified herein, form part of this standard specification. The applicability of changes in standards that occur after the date of this standard specification shall be mutually agreed upon by the purchaser and the supplier.

ASHRAE 52.2 “Method of testing general ventilation air-cleaning devices for removal efficiency by particle size”

ASTM B117 “Standard practice for operating salt spray (fog) apparatus”

ASTM F316-03 “Standard test methods for pore size characteristics of membrane filters by bubble point and mean flow pore test”

ISO 11057 “Air quality -- Test method for filtration characterization of cleanable filter media”

ISO 1817 “Rubber, vulcanized or thermoplastic -- Determination of the effect of liquids”

ISO 2941 “Hydraulic fluid power -- Filter elements -- Verification of collapse/burst pressure rating”

ISO 48 “Rubber, vulcanized or thermoplastic -- Determination of hardness (hardness between 10 IRHD and 100 IRHD)”

ISO 815-1 “Rubber, vulcanized or thermoplastic -- Determination of compression set -- Part 1: At ambient or elevated temperatures”

ISO 9073-1 “Textiles -- Test methods for nonwovens -- Part 1: Determination of mass per unit area”

ISO 9073-2 “Textiles -- Test methods for nonwovens -- Part 2: Determination of thickness”

ISO 9073-3 “Textiles -- Test methods for nonwovens -- Part 3: Determination of tensile strength and elongation”

ISO 9073-4 “Textiles -- Test methods for nonwovens -- Part 4: Determination of tear resistance”

ISO 9237 “Textiles -- Determination of the permeability of fabrics to air”

ISO 17025 “General requirements for the competence of testing and calibration laboratories”

ISO 9227 “Corrosion tests in artificial atmospheres”

3. Definition

3.1 Actual Filtration Area: A measure of the usable media surface in the cartridge.

3.2 Cartridge: The inside element of the dry gas filter.

3.3 Corrugation: Corrugated metal folded into a series of small parallel folds to make it stronger.

3.4 Dry gas filter: A device which is designed to remove solid particles.

3.5 Efficiency: Fraction or percentage of number of particles which is removed by the cartridge.

3.6 Media: The dust removing part of the cartridge.

3.7 Outer Guard: The final guard in the direction of gas flow through the cartridge.

3.8 Particle size: Light scattering equivalent size expressed as a diameter in micrometer ($1\ \mu\text{m} = 10^{-6}\ \text{m}$).

3.9 Pressure drop: A measure of the cartridge resistance to gas flows through it.