



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

MATERIAL STANDARD

FOR
PACKAGED, INTEGRALLY GEARED, CENTRIFUGAL PLANT AND
INSTRUMENT AIR COMPRESSORS FOR GENERAL REFINERY SERVICES
NPCS-MS-RE-08

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PREPARED BY : PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING COMPANY (P.I.D.E.C.)



Documents

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PART I GENERAL INFORMATION

1 GENERAL

1.1 This standard covers the minimum requirements for packaged, Integrally Geared, Centrifugal Plant and Instrument Air Compressors.

1.2 Centrifugal air compressor shall be furnished in accordance with API standard, 672, second edition of April 1988, with additions and modifications described in part II of this standard.

1.3 This standard is supplemented by the specification sheets on which the operating conditions and special requirements are listed in detail.
In case of conflicts between document listed below, the ones appearing first in sequence of this listing will proceed over the following ones:

- a) Purchaser order.
- b) data sheets.
- c) Requirements of the requisition.
- d) This standard.
- e) Other standards and specifications referred to in the above documents.
- f) Vendor drawings.

1.4 Compliance by vendor with the provisions of this standard does not relieve him of the responsibility of furnishing unit of proper design, mechanically suited to meet operating guarantees at the specified operating conditions.
Deviations from this standard which the vendor may consider advisable, shall be submitted in writing to purchaser, together with his quotation, in order purchaser may approve or reject such deviations.
Exceptions other than those included in the above mentioned document shall not be considered.

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- 1.5 Vendor shall only supply equipment of proper design and construction, of which satisfactory operation over at least three year period can be proven in similar service and operating conditions.

2 STANDARDS AND CODES

- 2.1 Centrifugal utility air compressor shall be designed, manufactured, inspected and tested in accordance with the editions that are in effect at the time of the order of the following documents.

2.1.1 Codes

- ASME Sections II,V,VIII div. 1 and IX.

2.1.2 Standards

- API.672 Packaged, Integrally Geared, Centrifugal Air Compressors for General Refinery Service.
- API.670 Vibration, Axial Position, and Bearings-Temperature Monitoring Systems.
- API.671 Special-Purpose Couplings.
- TEMA Standards.

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