



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

MATERIAL STANDARD
FOR
TANK MIXER

NPCS-MS-ME-03

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1 SCOPE

This standard covers the minimum requirements for supply of misers to be installed in pressure vessels and atmospheric tanks.

2 DESIGN CONSIDERATION

2.1 GENERAL

2.1.1 Mixer shall be designed and constructed for continuous operation at full tank capacity in the specified operating conditions. Mixers shall not be considered as operating during tank filling or pumpout.

2.1.2 The mixer shall be complete with driver, transmission, mounting flange, gasket and fixing bolts as per data sheet.

2.1.3 The mixer vendor shall assume full responsibility for the engineering of the mixer complete with gear unit & driver.

2.1.4 The choise of the impeller type shall be suitable for *the type of mixing.*

2 . 2 MECHANICAL DESIGN

2.2.7 The mechanical design of the compelete mixer unit shall be sturdy and shall take into account all stresses anticipated during its starting, running & stopping conditions. The *miser* shall operate without undue vibration, shock or noise. The vendor shall guarantee the maximum level of noise and vibrations within, which mixer shall operate.

2.2.2 All rotating parts shall be individually statically balanced. Where the impeller RPM is more than 300, the whole assembly shall be dynamically balanced.

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