



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

MATERIAL STANDARD
FOR
POSITIVE DISPLACEMENT PUMPS-CONTROLLED VOLUME
NPCS-MS-RE-03
REVISION : 0

JUNE 1992

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MODIFICATION TO API STANDARD 675

For the purpose of this standard the following definitions shall hold:

(Substitution)

The API Standard clause is deleted and replaced by the new clause.

(Deletion)

The API Standard clause is deleted without any replacement.

(Addition)

A new clause with a new number is added.

(Modification)

Part of the API Standard clause is modified, and/or a new description and/or condition is added to that clause.

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1 SECTION 1 - GENERAL

1.1 SCOPE

1.1 This standard covers the minimum, mechanical, material and performance features for controlled volume positive displacement type, direct plunger or hydraulically operated diaphragm pumps and its accessories used in process applications.

1.1.2 No deviations or exceptions from this Specification shall be permitted without the written approval of the purchaser; Intended deviations shall be listed by the supplier on a separate sheet of paper and supported by reasons for consideration by the purchaser. Unless specific exceptions and extent thereof, is recorded by vendor, in his proposal it shall be understood that he is in complete accordance with all terms and specifications to which reference is made and that he also guarantees to meet guarantee requirements as covered under standard of Hydraulic institute.

1.1.3 Compliance with this Specification shall not relieve the supplier of the responsibility of furnishing equipment and accessories of proper design, materials and workmanship, to meet the specific operating condition.

1.1.4 Except as modified herein, the pumps shall be designed, fabricated, **tested** and supplied strictly in accordance with:

API 675 standard

"POSITIVE DISPLACEMENT PUMPS CONTROLLED VOLUME" 1980

All requirements specified in the following paragraphs are additions and modifications to API 675-1980 edition

1.2 CRITERIA OF ACCEPTANCE (SUBSTITUTION)

1.2.1 The offered pumps models shall be the one from the existing regular production range of the vendor. At least one unit of the said model shall have been operating at job site and shall have completed 500 hours of successful operation as minimum, at the specified operating range without any major overhaul.

1.2.2 The mechanical as well as the hydraulic performance of the model shall have been established in the shop test.

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