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API Standard 610

API SPECIFICATIONS
FOR
CENTRIFUGAL PUMPS FOR GENERAL REFINERY
SERVICES

(Tentative)

1954

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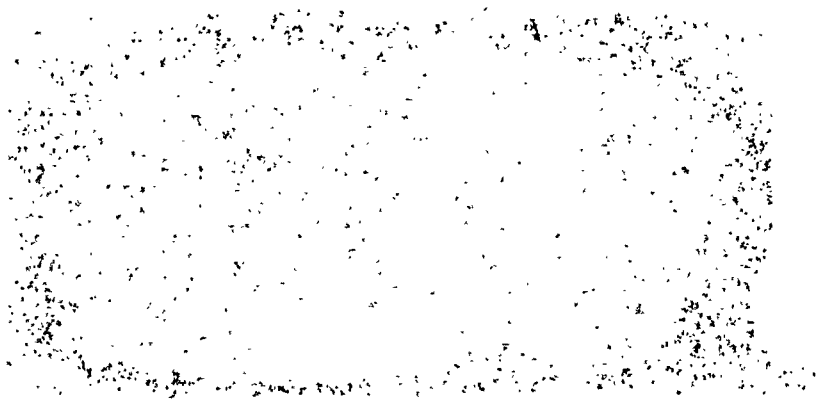


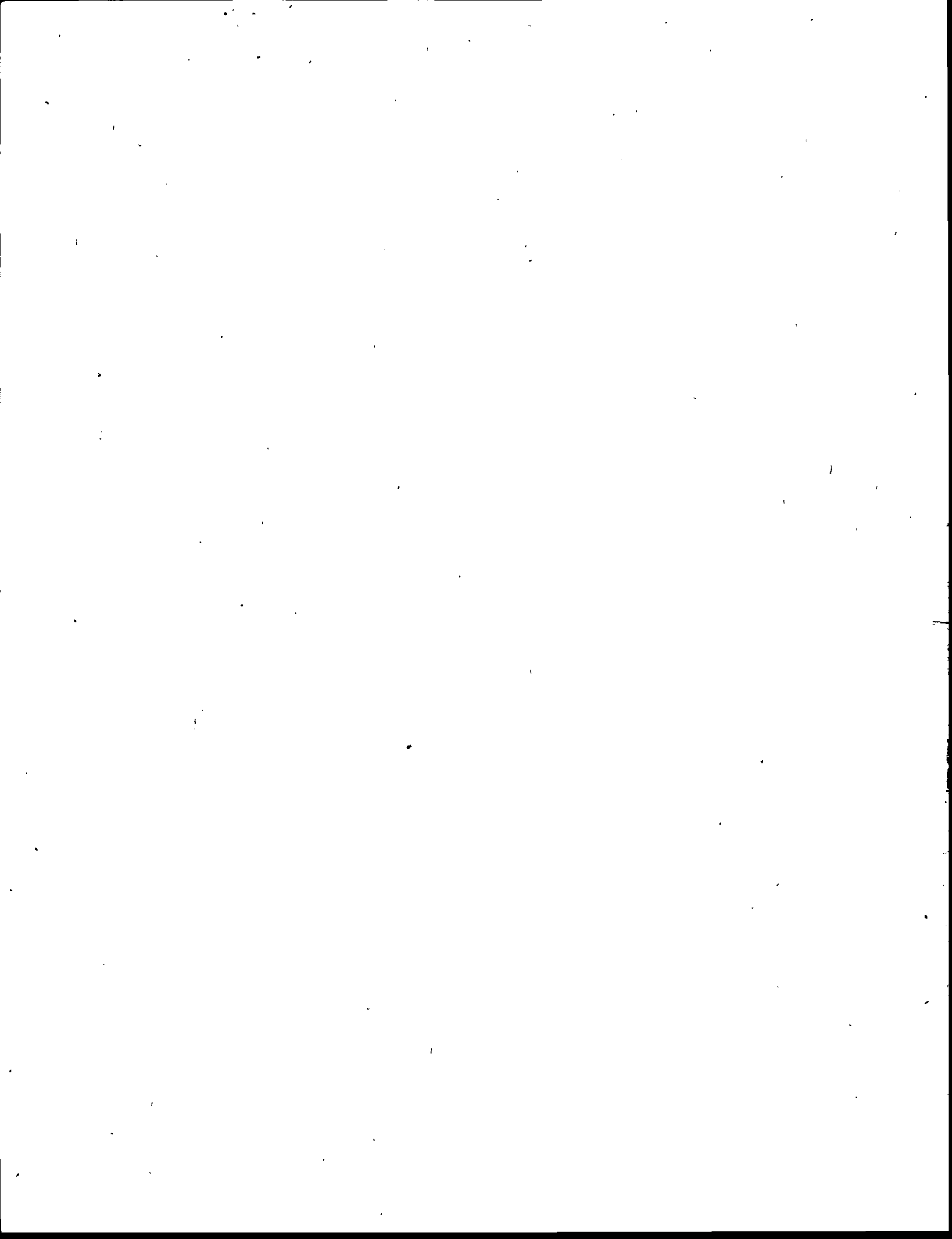
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ABBREVIATIONS USED IN THIS PUBLICATION

ASA	American Standards Association
avail	.....	available
bhp	.....	brake horsepower
ccw	.....	counterclockwise
cplg	.....	coupling
cw	.....	clockwise
diam	.....	diameter
diff	.....	differential
disch	.....	discharge
dwg	.....	drawing
eff	.....	efficiency
enc	.....	enclosed
F	.....	degrees Fahrenheit
FPT	.....	fahrenheit at pumping temperature
ft	.....	feet
gpm	.....	gallons per minute
guar	.....	guaranteed
hp	.....	horsepower
in.	.....	inches
lb	.....	pounds
max	.....	maximum
mfr	.....	manufacturer
min	.....	minimum
min	.....	minutes
No.	.....	number
NPSH	.....	net positive suction head above vapor pressure referred to the pump centerline in the case of horizontal pumps and to the eye of the first stage impeller in the case of vertical pumps
ped	.....	pedestal
PO	.....	purchase order
press	.....	pressure
psi	.....	pounds per square inch
psia	.....	pounds per square inch, absolute
psig	.....	pounds per square inch, gage
PT	.....	pumping temperature
req'd	.....	required
rpm	.....	revolutions per minute
sp gr	.....	specific gravity
std	.....	standard
suct	.....	suction
temp	.....	temperature
vap pr	.....	vapor pressure
vis Ssu	.....	viscosity—Saybolt seconds universal

NOTE: The nomenclature and part definitions used in this specification are taken from the *Centrifugal Pump Section of the Standards of Hydraulic Institute*, 8th edn.



SPECIFICATIONS FOR CENTRIFUGAL PUMPS FOR GENERAL REFINERY SERVICE**SECTION A—GENERAL****A-1 Scope**

This specification is intended to cover the minimum requirements for centrifugal-type pumps for petroleum products. It is not intended that this specification be used for heavy-duty double-case pumps * or for pumps of a highly specialized nature, such as those used for pumping chemicals, etc.

A-2 Alternate on Manufacturer's Standard Design

A vendor may offer an alternate pumping unit of a manufacturer's standard design, provided the

* Special requirements for vertical process-type centrifugal pumps are under preparation.

alternate design covers a construction which is equivalent to, guaranteed, and otherwise submitted in accordance with the requirements herein specified. All deviations in the manufacturer's standard design from the requirements specified herein shall be described fully in the proposal. The alternate design will receive full consideration.

A-3 Conflicting Requirements

Whenever the information included on the purchaser's data sheets, order sheets, or purchase orders conflicts with the provisions of this specification, the purchaser's data sheets, order sheets, and purchase orders shall govern.

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