

SPECIFICATION FOR 291-P5 (HCL TRANSFERRING PUMP)

Dated: September 29, 2022

STANDARD SPECIFICATION OF HYDROCHLORIC ACID (HCL)

Concentration	32 to 37% w/w
Specific gravity	1.192 to 1.175 at 60 °F
Iron ppm as Fe	10 max.
Sulfate ppm as SO	10 max.
Oxidant ppm as Cl ₂	10 max.
Arsenic ppm as As	5 max.
Lead ppm as Pb	5 max.

PUMPS TECHNICAL SPECIFICATION

Service	(concentration of HCL as mentioned above)
NPSHA	10 ft.
Suction pressure	0 psig
Rated Capacity	25 m ³ /hr
Minimum capacity	10 m ³ /hr
Discharge pressure	45 psig
Differential pressure	45 psig
Differential head	70 ft.
Pumping Temperature	15°C (minimum) / 35°C (Normal) 45 °C (maximum)

AREA CLASSIFICATION

Class- I, Group- C, Division- II

PUMP METALLURGY

Pump metallurgy to be specified by vendor as per service specification (with options)

Mechanical Seal Type & Seal Flushing Plan with API-682

Coupling Type Flexible

Two Years Recommended spare parts / parts list to be provided by vendor

MOTOR SPECIFICATION

KW and RPM to be specified by vendor as per pump specs.

Frequency: 50 Hz

IP Rating: 55 or above

Insulation Class: F

Coating: Fire protection of Acid (HCl) should be provided

Efficiency: IE2 or above

Voltage: 380 VAc

Name plate should be protected from corrosion

Note: Note: Pump shall be quoted as per API-610. Pump warranty and commissioning services also to be provided by vendor.