



**T-1001**  
SATURATOR

Vnom	262 m3
od	4000 mm
TL-TL	19500 mm
pe *	54 bar
t *	270 C
* = MECH. DESIGN	

**P-1001 A-ST**  
STEAM TURBINE FOR  
SATURATOR RECIRCULATION PUMP

SEE P&ID SHEET: 120

**P-1001 A/B**  
SATURATOR  
RECIRC. PUMP

Vnom	628.5m3/h
dp	4.32 bar
pe max	bar

**E-1005**  
CIRCULATION WATER  
HEATER

A	2592 m2
Shell- pe *	60 bar
Side t *	270 C
Tube- pe *	39 bar
Side t *	400 C
* = MECH. DESIGN	

- REMARKS:
- ALL PRESSURES ARE IN GAUGE  
IF NOT STATED OTHERWISE
- 1) MIN. FLOW LINE
  - 2) ARRANGE VALVE NEXT TO TURBINE
  - 3) EXCENTRIC REDUCER, WITH FLAT TOP
  - 4) WATER BACK FLOW INTO FEED GAS LINE MUST BE AVOIDED BY SWAN-NECK TO D-1007
  - 5) TIME DELAY (30...60 SEC.)
  - 6) VALVE FV-10042B WITH MECHANICAL MIN.-STOP
  - 7) MIN. 3M REQUIRED IN LINE 24" (INCL. ELBOWS, IF NECESSARY)
  - 8) HEAT INSULATION= 200 MM
  - 9) PROVIDE REMOVABLE SPOOL PIECE OR ELBOW FOR LINE STEAM BLOWING IN MIN. DISTANCE TO TURBINE
  - 10) PROVIDE 10 MM DRAIN HOLE
  - 11) SEE COMPLETE LOOP DESCRIPTION
  - 12) BLOW-OUT MIN.5 M ABOVE GROUND LEVEL.
  - 13) FOR START-UP ONLY

REV.	DATE	BY	CHKD	APPV	REVISION
9	18.01.20	S.Heydari			AS BUILT REVISED AS MARKED
8	14.03.06	ZMM	PTK	16.03.06	APC REVISED AS MARKED
7	03.12.03	ZMM	PTK	04.12.03	APC REVISED AS MARKED
6	10.07.03	ZMM	PTK	11.06.03	APC REVISED AS MARKED (FROZEN)
5	05.02.03	ZMM	PTK	06.02.03	APC REVISED AS MARKED (FROZEN)

**ZAGROS PETROCHEMICAL COMPANY**

OWNER: NATIONAL PETROCHEMICAL COMPANY  
ZAGROS PETROCHEMICAL COMPLEX  
شرکت پتروشیمی زاگرس

PROJECT: 4th METHANOL PROJECT

DWG. NO.: DIG-PI-008

CONTRACTOR: PETROCHEMICAL INDUSTRIES  
DESIGN & ENGINEERING COMPANY  
شرکت طراحی و مهندسی صنایع پتروشیمی

ZPC PROJ. NO.: 40404277  
PIDEC PROJ. NO.: 1175

Scale: Original Size

Rev: 9

**engineering Lurgi**

Nomination: T-1001  
P-1001 A-ST  
P-1001 A/B  
E-1005

Basic document:

DCC DG DL-NO. RT

Job name: Lurgi Job No: 169666-01 Lurgi Document No: 37108

MEGA METHANOL IRAN

REFORMING SATURATOR AND CIRC. WATER SYSTEM  
UNIT 100  
P&ID DIAGRAM SHEET 104

Rev: 9

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