

PIPE LINES

UNIT
11
DRAWING REFERENCE
P 11101-1

INSPECTION DESIGNATION
1

ROUTE IDENTITY
12" P 61102-1 - P 1101A/B

CODE IDENTITY

10" P 11101-1-D-1
12" P 11101-1-D-3

6300 P 11101 3

GENERAL INFORMATION

12" P 61102-1 - P 1101A/B

Pipe class
Nominal dia
Sch Number
Original thickness
Corrosion Allowance
Design stress at °C
Y-value
Retiring thickness
Weight Empty
Weight water filled
Route elevation Max
Maximum linear exp.
Route elevation Min

D-1
10"
30
7.8mm
2.0mm
16000
0.4
2.31
2604.75
5562.40
1022.37
0.28"
99500

Operating Pressure
Operating temperature
Design pressure
Design temperature
Fluid
Gravity
IP, 33°C, FP ...°C, EP ...°C

0
25°C
2.0 BAR
40°C

VALVES AND FITTINGS

ITEM TYPE SERIES ASTM/API SPEC REMARKS

Gatevalve FOR-D-1 FD 150# A 216 WC13

WELDING SPECIFICATION

Globevalve Check valve

PIPE MANUFACTURING PROCEDURE

Plug valve

API 5L GR. A : OH EF (FOR D-1)
ASTM A-105 139A OH EF (FOR D-3) (REDUCER)

Needle valve

WELD BUTT WELD
WELDING ROD: E 6011/ET011 (FOR D-1)
ROOT GAP: 1/8"
BEVEL 60°

Flange FOR-D-1 SO 156# A 105 GR-1

HEAT TREATMENT REQUIREMENTS

Forged fittings

TEST DATA

Half coupling FOR-D-1 SD 3000# A 105 GR-2

Hydraulic test pressure

Unions

Design test pressure

Bolts FOR D-1 156H A 193 GR B3

Pneumatic test pressure

Nuts " D-1 156H A 194 C-1 2H

NOT NECESSARY

GASKETS " D-1 156H IRON ASBESTOS

METHOD OF INSPECTION

TYPE CODE

Type Code Type Code Type Code

Hammer test

Silphon So Flanged FD

Ultrasonics

Welding neck WN Screwed and weld SE

YES

Socket weld SD Long radius LR

Radioactivity