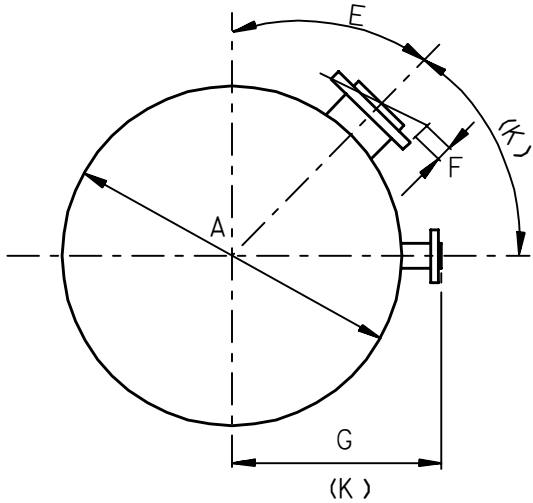
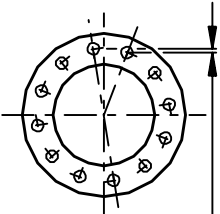
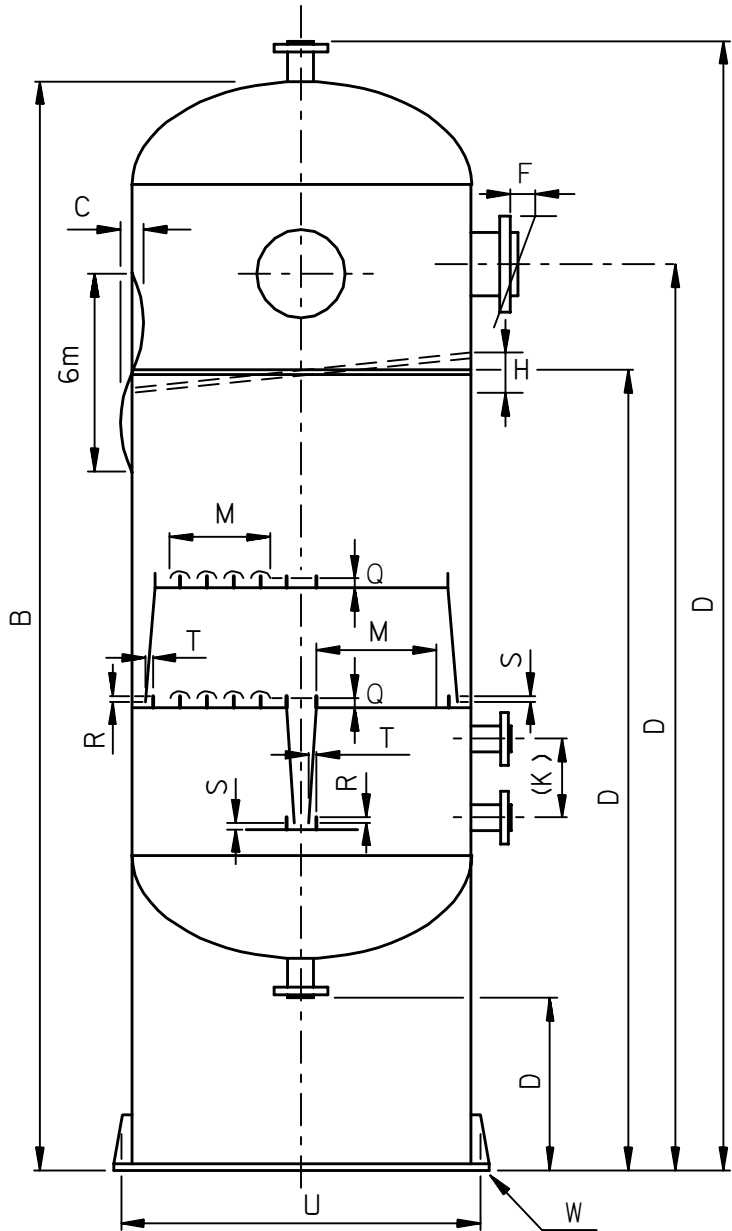


90	100	186920-AD-036981	C/D	066
REV. NO.	SHEET NO.	DRAWING NUMBER	INDEX	PLANT NO.



SHELL AND SKIRTS OUTSIDE CIRCUMFERENCE	
OUTSIDE DIAMETER	TORERANCE ON CIRCUMFERENCE
LESS THAN 1.2m	±10mm
OVER 1.2 TO 2.4m	±12mm
OVER 2.4 TO 4.5m	±20mm
OVER 4.5m	±25mm



1.5mm MAX. ROTATION
OF FLANGES FROM
INDICATED POSITION
MEASURED AS SHOWN

VESSEL DRAWING

ALLOWABLE VARIATION FROM NOMINAL DIMENSIONS

- DIFFERENCES BETWEEN MAX. AND MIN. DIAMETER AS SPECIFIED BY THE DESIGN CODE. CIRCUMFERENCE, REFER TO TABLE.
- LENGTH OF VESSEL 1.5mm PER METER LENGTH.
- ALIGNMENT OF OUTSIDE SURFACE OF CYLINDER NOT MORE THAN 10mm AT ANY POINT ALONG A STRAIGHT LINE 6-METERS LONG AT SECTIONS CLEAR OF SHELL OPENINGS.
- ELEVATION OF NOZZLES MANWAYS, TRAY DECKS, TRAY SUPPORT RING , LUGS, STRUCTURAL AND PIPING CLIPS ETC. WITH RESPECT TO TRUE BASE 6.5mm (REF. ITEM K)
- ANGULAR VARIATION FROM TRUE CENTERLINE OF NOZZLE (REF. ITEM K)
- DEVIATION FROM INDICATED POSITION 1.5mm MAX. MEASURED ACROSS ANY DIAMETER.
- DISTANCE FROM CENTERLINE OF VESSEL TO FACE OF FLANGE OF NOZZLE ±10mm (REF. ITEM K)
- DISTANCE BETWEEN HIGH AND LOW POINTS OF TRAY DECK SUPPORT RINGS: 5mm FOR VESSELS 1.5m NOMINAL DIAMETER AND LESS OR 0.3 % , OF VESSELS OVER 1.5m NOMINAL DIAMETER.
- ALL INTERNALS TO WHICH TRAY DECKS OR TRAY-PARTS ARE TO BE BOLTED TO HAVE CENTER TO CENTER DIMENSIONS OF ANY TWO BOLTHOLES OF A SERIES ±1.5mm.
- FOR NOZZLES AND/OR DIMENSIONS MARKED (K) ON VESSEL DRAWING. VARIATIONS FROM GIVEN DIMENSIONS ARE ALSO LIMITED AS FOLLOWS: (SEE ITEM "D" ABOVE)FOR DISTANCE BETWEEN ADJACENT NOZZLES: ±1.5mm (SEE ITEM "E" ABOVE)ANGULAR VARIATION 0°. (SEE ITEM "G" ABOVE)DISTANCE FROM CENTERLINE OF VESSEL ±1.5mm.
- OVERALL DIMENSIONS OF TRAY PARTS ±1.5mm.
- CENTER TO CENTER DIMENSION OF ANY TWO BOLTHOLES OF A SERIES ±1.5mm.
- CENTER TO CENTER DIMENSIONS OF BUBBLE CAPS ±3mm.
- HEIGHT OF CAPS AND WEIRS ABOVE TOP OF TRAY DECKS ±1.5mm.
- DOWNFLOW SEAL± 6.5mm (VERTICAL DIMENSIONS FROM BOTTOM OF DOWNCOVERS TO TOP INLET WEIR)
- VERTICAL DISTANCE BETWEEN BOTTOM OF DOWNCOMER AND TOP OF TRAY DECK OR PAN ±6mm.

- HORIZONTAL DISTANCE FROM DOWNCOMER APRON TO INLET WEIR ±6mm.
- THE CENTER OF ANCHOR BOLT HOLE SHALL NOT DEVIATE FROM THE SPECIFIED LOCATION ON THE BOLT CIRCLE BY MORE THAN 6.5mm.
- BASE OUT OF LEVEL SLOPE 2.5mm PER METER, 6.5mm MAXIMUM.

DWG. RESPONSIBILITY :
VESSEL STANDARDS COMMITTEE

REV. NO.	DATE	BY	JO/EWO	DESCRIPTION	CHKD.	CERT.	APPD.
06	APR'96	ESSD RLO		DELETED NOTE-1 & CHANGED "MANDATORY NOTE" TO " DWG. RESPONSIBILITY NOTE".			
05	JUNE'95	ESSD RLO		CONSOLIDATED SHTS. 1 & 2 INTO SHT. 001 AND REVISED NOTES.			
01	JUN92	ESSD EPE		DRAWING DIGITIZED INTO CADD DATABASE WITHOUT CHANGES			

SAUDI ARABIAN OIL COMPANY

DRAWN BY BEYER CHECKED BY _____ SCALE NONE
DATE STARTED MAY '65 DATE COMPLETED _____
OPRG. DEPT. _____ ENG. DEPT. ORIGINAL SIGNED
APPD. FOR CONSTR. _____ 05-07-65

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED
CERTIFIED BY _____ DATE _____

TOLERANCES FOR PRESSURE VESSELS				
STD. DWG.			METRIC	
PLANT NO.	INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
990	C/D	AD-036981	001	06