

PRESSURE VESSEL RECORD SHEET

FORM
P.V.1.

WORKS REGISTRATION No:
PR 42

PROJECT No. 850		TITLE CORVIC 7 RUNCORN	
VESSEL EQUIPMENT No. W 701/1		DESCRIPTION 40 M ³ AUTO CLAVE (L.H.)	
MAKER'S NAME ROBERT JENKINS		MAKERS No. ES 98351	CLASS OF CONSTRUCTION CLASS 1
I.C.I. PURCHASE ORDER No.		DATE OF CONSTRUCTION	STRESS CALCS. BY
PE 850/137/5		DRAWING No. 165/01/73/6	
CALCULATION(S) No. AND/OR RELATED STANDARDS SHEETS			
DATA			
MATERIALS OF CONSTRUCTION			
NOMINAL THICKNESS (OR DIA.) (IN) 15/16 1 1/8			
CORROSION ALLOWANCE (IN) .062			
OPERATING PRESSURE P.S.I.G. UP TO 200			
MAX. ATTAINABLE PRESSURE P.S.I.G. 273			
MAX. PERMISSIBLE PRESSURE P.S.I.G. 330 + VACUUM			
DESIGN PRESSURE P.S.I.G. " "			
TEST PRESSURE P.S.I.G. 465 + VACUUM			
OPERATING FLUID V.C + WATER + CAT			
MAX. OPERATING FLUID TEMP. °C. 85			
MAX. PERMISSIBLE TEMP. °C. 100			
MAX. METAL TEMP. °C.			
CAPACITY M ³			
LINING S.S. CLAD			
RELATED SPEC ^N			
SPECIFIED ARRANGEMENTS FOR PRESSURE MEASUREMENT AND CONTROL			
PRESS. GAUGE RANGE P.S.I.G.		TYPE AND MAKE	
PRESS.		FARRIS (26 KA 12)	
RELIEF		3" IN / 4" OUT	
DEVICE		225	
PRESS. GAUGE RANGE P.S.I.G.		SET TO RELIEVE AT P.S.I.G.	
PRESS.		FARRIS (26 KA 12)	
RELIEF		3" IN / 4" OUT	
DEVICE		225	
TYPES OF ATTACHED FITTINGS AND PARTICULARS OF BRANCH ATTACHMENTS (INTERNAL DIA. AND FLUID CARRIED)			
BORE SITUATED IN FLUID			
SEE DRAWING Nos BELOW			
165/01/73/182			
165/01/73/189			
165/01/73/190			
MAIN VESSEL RELIEF DEVICE IS CONVENTIONAL 12" NB MARSTON ALUMINIUM DISC (273 PSIG @ 70°C) LOCATED IN CLASS 300 MARSTON D 889-481-4 CARRIER IN MANHOLE LID			

OTHER SPECIAL ARRANGEMENTS "BOLTLESS" PATENT MANHOLE CLOSURE

SIGNED Tanweer L. Bolton DATE 18.3.76

NOTES (1) MAX. ATTAINABLE PRESSURE IS THE GAUGE PRESSURE AT WHICH THE RELIEF DEVICE IS SET.

(2) MAX. PERMISSIBLE PRESSURE IS THE MAX. INTERNAL GAUGE PRESSURE WHICH CAN BE PERMITTED AT THE TOP OF THE VESSEL SO THAT THE STRESSES ALLOWED BY THE DESIGN CODE ARE NOT EXCEEDED. IN CERTAIN CASES (1) MAY BE LESS THAN (2).

(3) DESIGN PRESSURE IS THE PRESSURE (INTERNAL OR EXTERNAL) USED FOR DETERMINING THE THICKNESSES OF THE PRESSURE PARTS OF THE VESSEL. IT IS THE SUM OF (1) + BACK PRESSURE ON SAFETY DEVICE + STATIC HEAD.

(4) FOR VESSELS WITH A SINGLE WALL HAVING NO STATIC HEAD OR BACK PRESSURE ON THE RELIEF DEVICE, MAX. ATTAINABLE, MAX. PERMISSIBLE AND DESIGN PRESSURES HAVE THE SAME VALUE. FOR COLUMNS, JACKETED AND OTHER COMPLEX CASES CONSULT THE MECHANICAL ENGINEERING SERVICES SECTION.

THE SPARE COLUMNS ON THE RIGHT ARE FOR OTHER COMPONENTS SUCH AS HEATING COIL, TUBE AND TUBEPLATE, ETC. AS APPLICABLE.
THE TABLE FOR BRANCHES MAY BE EXTENDED TO SUIT.