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A53 Gr.B STD, ERW 2 200 MM 300 100MM NIPPLE, GROOVED END AS PER 25.03 + BW END, ASTM A53 GR.B. RUBBERLINED 6MM 3 1 300X100 TEE, RED, VICTAULIC NO. 25 GROOVED TO VICTAULIC 25.01, 6MM RUBBER DUCTILE IRON, A536 4 1 300X50 TEE, RED, VICTAULIC NO. 25 GROOVED TO VICTAULIC 25.01, 6MM RUBBER DUCTILE IRON, A536 5 1 300 90 DEG 3D BEND TRIMMED, CARBON STEEL, BW, ASTM A53 GR.B. RUBBERLINED 6MM 6 1 100 FLANGE, CL150, VICTAULIC NO 45F, CUT GROOVE ENDS, RUBBER 6MM, 3MM FACE DUCTILE IRON, ASTM A536 7 1 50 FLANGE, CL150, VICTAULIC NO 45F, CUT GROOVE ENDS, RUBBER 6MM, 3MM FACE DUCTILE IRON, ASTM A536 8 1 300 SINGLE TRUNNION 9 3 300 CLAMPED SLOPED MEDIUM PIPE SHOE - 3 DEGREE SLOPE 10 5 300 COUPLING, FLEXIBLE, STYLE 77 FLEX COUPLING DUCTILE IRON, A536 11 3 300 COUPLING, RIGID, STYLE 07 ZERO-FLEX RIDGID COUPLING DUCTILE IRON, A536 12 1 100 COUPLING, FLEXIBLE, STYLE 77 FLEX COUPLING DUCTILE IRON, A536 13 1 50 COUPLING, FLEXIBLE, STYLE 77 FLEX COUPLING DUCTILE IRON, A536 14 1 100 GASKET, 1.5MM RING or FULL FACE TO SUIT FLANGES GARLOCK 3000 15 1 50 GASKET, 1.5MM RING or FULL FACE TO SUIT FLANGES GARLOCK 3000 16 4 16 BOLT, HEX HD BOLTS c/w HEX HEAD NUT A193 Gr.B7, A194 Gr.2H - 88.9 mm Length 17 24 16 WASHER, ROUND, FLAT, STEEL, GALV, for 0.625in bolt 18 8 16 BOLT, HEX HD BOLTS c/w HEX HEAD NUT A193 Gr.B7, A194 Gr.2H - 101.6 mm Length 19 1 100 KNIFE GATE VALVE, CLARKSON KGA, FLANGE TYPE (KG01)	PT No		1					
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19 1 100 KNIFE GATE VALVE, CLARKSON KGA, FLANGE TYPE (KG01)	17	24	16	WASHER, ROUND, FLAT, STEEL, GALV, for 0.625in bolt				
	18	8	16	BOLT, HEX HD BOLTS c/w HEX HEAD NUT A193 Gr.B7, A194 Gr.2H - 101.6 mm Length				
20 1 50 KNIFE GATE VALVE, CLARKSON KGD, WAFER TYPE (KG03)	19	1	100	KNIFE GATE VALVE, CLARKSON KGA, FLANGE TYPE (KG01)				
	20	1	50	KNIFE GATE VALVE, CLARKSON KGD, WAFER TYPE (KG03)				

BILL OF MATERIALS / LISTA DE MATERIALES

FOR PROJECT PIPING STANDARDS, REFER TO DRAWING ECFN-AUS-PI-6000-STD-01001

ALL ISOMETRICS ARE DRAWN TO VICTAULIC STANDARD GROOVE SPECIFICATIONS 25.01. ALL DIMENSIONS INDICATED ARE TO THE FACE OF STEEL.

GAPS WHERE VICTAULIC COUPLINGS WILL BE ADDED RESPECTS VICTAULIC STAND DIMENSIONS FOR MAXIMUM SEPARATION ALLOWANCE.

FOR RUBBERLINING MANUFACTURING PURPOSE

STRAIGHT PIPE SPOOLS AND CUSTOM FITTINGS ARE TO BE FABRICATED TO VICTAULIC STANDARD GROOVE DIMENSIONS FOR RUBBER LINING 25.03.

FOR PIPE-TO-FITTING JOINT, FITTINGS ARE TO BE SUPPLIED AS PER VICTAULIC STANDARD

GROOVE SPECIFICATIONS 25.01 (3 MM RUBBER TO BE ADDED). FOR FITTING-TO-FITTING JOINT, 12 INCH AND LESS, FITTINGS ARE TO BE SUPPLIED AS PER

VICTAULIC STANDARD GROOVE SPECIFICATIONS 25.01 (1.6 TO 3 MM RUBBER TO BE ADDED).

FOR FITTING-TO-FITTING JOINT, 14 INCH AND LARGER, FITTINGS ARE TO BE SUPPLIED AS PER VICTAULIC STANDARD GROOVE SPECIFICATIONS 25.03.

					NÚMERO DE LI	NEA
/DISEÑO	M.ROCHE	18-04-02	Ausenco Montréal, Québec, Canada	Ausenco	TITLE / TITULO	FRUT
/DIBUJADO	M.ROCHE	18-04-02	T +1 514 866 1221 W www.ausenco.com			
DA/EDIEICADO	V CHVDI ED	10 04 05	CLIENT /			PROY

SHT

02 OF 03

LINE NUMBER

DESIGN TEMP (°C) / TEMPERATURA DE DISEÑO DESIGN PRESS (kPag) / PRESIÓN DE DISEÑO AURELIAN ECUADOR S.A.

DESIGN CODE & CLASS / CÓDIGO Y CLASE DE DISEÑO INSULAȚION (TYPE/THK) / AISLACIÓN (TIPO/ESPESOR) RE-ISSUED FOR FABRICATION MR PD 18-09-07 ISSUED FOR FABRICATION MR PD 18-07-06 TRACING / TRAZADO ISSUED FOR TENDER MR PD 18-05-08 HECKED/VERIFICADO A.CHARLEB 18-04-05 CLIENTE MR NDE ISSUED FOR PROJECT REVIEW PD 18-04-05 MINING SERVICES INC. TEST TYPE / PRUEBA TIPO ISSUED FOR INTERNAL REVIEW MR PD 18-04-05 ENGINEER/INGENIERO | P.DUMONT | 18-04-05 TEST PRESS (kPag) / PRUEBA DE PRESIÓN REV DESCRIPTION / DESCRIPCION BY / DE ENG DATE/FECHA

PD

18-10-11

MR

2 RE-ISSUED FOR FABRICATION

PIPING ISOMETRIC PROYECTO FRUTA DEL NORTE ISOMÉTRICOS DE TUBERÍAS

FRUTA DEL NORTE PROJECT

6210-300-SPR-L03-0114

P&ID NUMBER 6210-PID-00001 L03 NÚMERO P&ID SUB-PROJECT / ENGINEERING CONSTRUCTION / SIZE / SUB-PROYECTO: INGENIERIA Y CONSTRUCCIÓN TAMA NO **A3** ALL DIMENSIONS IN MM / TODAS LAS DIMENSIONES EN MM REV. 2

DRAWING No

ECFN-AUS-PI-6210-ISO-01013