

LEGAL NOTICE No. 175

REPUBLIC OF TRINIDAD AND TOBAGO

THE PETROLEUM ACT, CHAP. 62:01

NOTIFICATION

ISSUED UNDER REGULATION 3 OF THE PETROLEUM (COMPRESSED NATURAL GAS) REGULATIONS, 1994

THE MINISTER with responsibility for Energy and Energy Industries hereby gives notice that in accordance with the power given to him under Regulation 3 of the Petroleum (Compressed Natural Gas) Regulations, 1994 he has approved for use in Trinidad and Tobago, the compressed natural gas vehicle systems (hereinafter called "CNGV SYSTEMS") and the compressed natural gas systems, (hereinafter called the "CNG SYSTEMS") detailed in the First and Second Schedules respectively.

FIRST SCHEDULE

CNGV SYSTEMS

(A) Cylinders

All cylinders must have identifying marks, including the manufacturer's name and pressure rating and must be marked for CNG usage.

(1) MANUFACTURER	Faber
TYPE	Fuel Cylinders
MANUFACTURING STANDARDS	New Zealand NZS 5454 Specifications
MATERIAL TYPE	Steel
PRESSURE RATING	200 bars (3,000 psi)
TEST PRESSURE	300 bars (4,500 psi)

SIZE AND CAPACITY DESCRIPTION

<i>Diameter/ mm</i>	<i>Length/ mm</i>	<i>Water Capacity / litres</i>
267 ...	1100 ...	50
316 ...	835 ...	50
316 ...	905 ...	55
316 ...	975 ...	60
316 ...	1115 ...	70
356 ...	905 ...	70
356 ...	1235 ...	100

(2) MANUFACTURER	Inflex
TYPE	Fuel Cylinder
MANUFACTURING STANDARDS	DOT ISO
MATERIAL TYPE	Steel
PRESSURE RATING	200 bars (3,000 psi)
TEST PRESSURE	300 bars (4,500 psi)

SIZE AND CAPACITY DESCRIPTION

<i>Diameter/ mm</i>	<i>Length/ mm</i>	<i>Water Capacity/litres</i>
244 ...	972 ...	34
244 ...	1050 ...	40
244 ...	1305 ...	50
244 ...	1545 ...	60
323 ...	774 ...	50
323 ...	912 ...	60
323 ...	975 ...	65
323 ...	1140 ...	75
400 ...	950 ...	95

(3) MANUFACTURER	Cilbras
TYPE	Fuel Cylinders
MANUFACTURING STANDARDS	ISO 4705 DOT
MATERIAL TYPE	Steel
PRESSURE RATING	3,000 psi
TEST PRESSURE	4,500 psi

SIZE AND CAPACITY DESCRIPTION

<i>Diameter/ mm</i>	<i>Length/ mm</i>	<i>Water Capacity/litres</i>
270 ...	990 ...	45
270 ...	1150 ...	53
270 ...	1735 ...	80
270 ...	820 ...	36
270 ...	1435 ...	65

(B) Pressure Regulators

All pressure regulators must have identifying marks, including manufacturer's name and model number.

(1) (i)	MANUFACTURER	Landi Renzo
	MODEL	TN2/CS
	MANUFACTURING STANDARDS	CAN/CGA 12.3-M91
	PRESSURE RATING	3,000 psi
(ii)	MANUFACTURER	Landi Renzo
	MODEL	TN1C
	MANUFACTURING STANDARDS	CAN/CGA 12.3-M91
	PRESSURE RATING	3,000 psi
(iii)	MANUFACTURER	Landi Renzo
	MODEL	TN1B
	MANUFACTURING STANDARDS	CAN/CGA 12.3-M91
	PRESSURE RATING	3,000 psi
(2) (i)	MANUFACTURER	Rodagas
	MODEL	72.000
	MANUFACTURING STANDARDS	Brazilian Standard NBR 11353 NB 1247
	PRESSURE RATING	200 bars (3,000 psi)
(ii)	MANUFACTURER	Rodagas
	MODEL	50.000
	MANUFACTURING STANDARDS	Brazilian Standard NBR 11353 NB 1247
	PRESSURE RATING	200 bars (3,000 psi)
(3)	MANUFACTURER	Ansi
	MODEL	RE1000
	MANUFACTURING STANDARDS	NBR 001 Gas del Estado-Argentina
	PRESSURE RATING	3,000 psi
(4) (i)	MANUFACTURER	Tartarini
	MODEL	RP/76M
	MANUFACTURING STANDARDS	CAN/CGA 12.3-M91 Italian Ministry of Transport Standard 350 Argentine Standards Malaysian Standards
	PRESSURE RATING	3,000 psi

(ii) MANUFACTURER	Tartarini
MODEL	RP/76E95
MANUFACTURING STANDARDS	CAN/CGA 12.3-M91 Italian Ministry of Transport Standard 350 Argentine Standards Malaysian Standards
PRESSURE RATING	3,000 psi

(C) Pressure Gauges

(1) MANUFACTURER	Wika
MODEL	111.10
MANUFACTURING STANDARDS	CAN/CGA 12.3-M91 IR 45
DIAL RANGE	0-5,800 psi
(2) MANUFACTURER	Rodagas
MANUFACTURING STANDARD	EB-1975
DIAL RANGE	0-400 bars

(D) Piping

(1) MANUFACTURER/SUPPLIER	Swagelok
MANUFACTURING STANDARDS	ASTM
MATERIAL TYPE	Stainless Steel
EXTERNAL DIAMETER	6 mm
PRESSURE RATING	4,000 psi
TEST PRESSURE	12,400 psi
(2) (i) MANUFACTURER/SUPPLIER	Ansi
MANUFACTURING STANDARDS	NBR.001 Gas del Estado-Argentina
MATERIAL TYPE	Stainless Steel
EXTERNAL DIAMETER	4 mm
PRESSURE RATING	200 bars (3,000 psi)
TEST PRESSURE	1000 Bars (15,000 psi)
(ii) MANUFACTURER/SUPPLIER	Ansi
MANUFACTURING STANDARDS	NBR.001 Gas del Estado-Argentina
MATERIAL TYPE	Stainless Steel
EXTERNAL DIAMETER	6 mm
PRESSURE RATING	200 bars (3,000 psi)
TEST PRESSURE	1000 Bars (15,000 psi)

(3) MANUFACTURER/SUPPLIER	Landi Renzo
MANUFACTURING STANDARDS	CAN/CGA 12.3-M91 IR 45
MATERIAL TYPE	Steel (with PVC covering)
EXTERNAL DIAMETER	6 mm
PRESSURE RATING	200 bars (3,000 psi)
TEST PRESSURE	800/900 bars (12,000/13,500 psi)
(4) MANUFACTURER/SUPPLIER	Bondy Spa
MANUFACTURING STANDARDS	ASTM A254
MATERIAL TYPE	Steel with Zinc coating
EXTERNAL DIAMETER	6 mm
PRESSURE RATING	3,000 psi
TEST PRESSURE	12,000 psi

(E) Cylinder Valves

All cylinder valves must have identifying marks, including manufacturer's name and model number.

MANUFACTURER	Emer
MODEL	198/1
MANUFACTURING STANDARDS	CAN/CGA 12.3-M91 IR 45
MATERIAL TYPE	Brass
PRESSURE RATING	210 bars (3,150 psi)
TEST PRESSURE	900 bars (13,500 psi)
RELIEF DEVICE TYPE	Combination excess flow/rupture disc/ fusible plug Rupture disc rating: 300 bars Fusible plug rating: 212°F

(F) Valves (other than Cylinder Valves)

All valves must have identifying marks, including manufacturer's name and model number.

(1) MANUFACTURER	Emer
MODEL	198/2B
MANUFACTURING STANDARDS	CAN/CGA 12.3-M91 IR 45 NZSS 5422
MATERIAL TYPE	Brass
PRESSURE RATING	210 bars (3,150 psi)
TEST PRESSURE	900 bars (13,500 psi)
(2) MANUFACTURER	Tartarini
MODEL	M2
MANUFACTURING STANDARDS	CAN/CGA 12.3-M91 Italian Ministry of Transport Standard 350 Argentine Standards Malaysian Standards
MATERIAL TYPE	Brass
PRESSURE RATING	220 bars
TEST PRESSURE	800 bars

SECOND SCHEDULE

CNG SYSTEMS

(A) Compressors

All compressors must have identifying marks, including manufacturer's name and model number.

(1) (i)	MANUFACTURER	Norwalk
	TYPE	Charger NQ-SV2 Two stage reciprocating/Quick-fill
	MANUFACTURING STANDARDS	ASTM
	PRESSURE CAPACITY	3,600 psi
(ii)	MANUFACTURER	Norwalk
	TYPE	Three stage reciprocating/Quick-fill
	MANUFACTURING STANDARDS	ASTM
	PRESSURE CAPACITY	3,600 psi
(2)	MANUFACTURER	Hamworthy Compressor Systems
	TYPE	Two stage reciprocating
	MANUFACTURING STANDARDS	ASTM
	PRESSURE CAPACITY	3,600 psi

(B) Relief Valves

All relief valves must have identifying marks, including manufacturer's name, model number and set pressure.

(1) (i)	MANUFACTURER	Anderson, Greenwood & Company
	TYPE	83 (Direct acting spring loaded)
	MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
	SET PRESSURE	1,015 psi
(ii)	MANUFACTURER	Anderson, Greenwood & Company
	TYPE	83 (Direct acting spring loaded)
	MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
	SET PRESSURE	3,900 psi
(iii)	MANUFACTURER	Anderson, Greenwood & Company
	TYPE	83 (Direct acting spring loaded)
	MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
	SET PRESSURE	315 psi
(iv)	MANUFACTURER	Anderson, Greenwood & Company
	TYPE	83 (Direct acting spring loaded)
	MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
	SET PRESSURE	1,200 psi

(v) MANUFACTURER	Anderson, Greenwood & Company
TYPE	83 (Direct acting spring loaded)
MANUFACTURING STANDARDS	ASME Boiler & Pressure Vessel Code
SET PRESSURE	3,950 psi
(2) (i) MANUFACTURER	Hamworthy Compressor Systems
TYPE	K965/626
MANUFACTURING STANDARDS	ASTM
SET PRESSURE	850 psi
(ii) MANUFACTURER	Hamworthy Compressor Systems
TYPE	K965/626
MANUFACTURING STANDARDS	ASTM
SET PRESSURE	3,950 psi

(C) Pressure Gauges

(1) MANUFACTURER	Ashcroft & McDaniel
TYPE	High pressure liquid fill
MANUFACTURING STANDARDS	ASTM
DIAL RANGE	0-5,000 psi
(2) MANUFACTURER	Ashcroft & McDaniel
TYPE	High pressure liquid fill
MANUFACTURING STANDARDS	ASTM
DIAL RANGE	0-2,000 psi

(D) Hose and Hose Connections

MANUFACTURER	Compac
TYPE	Synflex
MANUFACTURING STANDARDS	ASTM
DIAMETER	$\frac{3}{8}$ inch
PRESSURE RATING	300 bars (4,500 psi)

(E) Piping

(1) MANUFACTURER/SUPPLIER	Norwalk Company Inc.
MANUFACTURING STANDARDS	ASTM A53
MATERIAL TYPE	Carbon steel XXS/Stainless steel
EXTERNAL DIAMETER	$\frac{1}{2}$ inch
PRESSURE RATING	8,390 psi
TEST PRESSURE	6,000 psi

(2) MANUFACTURER/SUPPLIER	Norwalk Company Inc.
MANUFACTURING STANDARDS	ASTM A53
MATERIAL TYPE	Carbon steel XXS/Stainless steel
EXTERNAL DIAMETER	1/4 inch
PRESSURE RATING	8,390 psi
TEST PRESSURE	6,000 psi

(F) Vehicle Fuelling Connection

(1) MANUFACTURER	Compac
TYPE	AR
MANUFACTURING STANDARDS	ASTM
SIZE	9/16 inch
PRESSURE RATING	4,000 psi
(2) MANUFACTURER	Compac
TYPE	NZ
MANUFACTURING STANDARDS	ASTM
SIZE	7/16 inch
PRESSURE RATING	4,000 psi

Dated this 1st day of November, 1995.

B. BARNES
Minister of Energy and Energy Industries