

DISPOSABLE GAS EQUIPMENT



DISPOSABLE GAS CYLINDERS

The 2.2 litre disposable gas cylinders have a much larger capacity and are filled to a much higher pressure than conventional disposable cylinders currently available, making them a viable alternative for many applications. These cylinders are not refillable and once evacuated, must be disposed of or recycled according to local government requirements. Operators are required to read and adhere to the MSDS applicable to the gas being used, available for download from the Tesuco website.

NITROGEN

The nitrogen cylinders and gas are to a food grade standard, so have a wide range of uses.

Applications include:

Wine Dispensing – Wine dispensing machines use very low pressure and small amounts of gas, therefore the cylinders are a perfect, compact supply solution.

Air Conditioning and Refrigeration – There are many applications in this industry such as purging, pressure testing, drain clearing and dust removal.

Laboratory – Ideal for conducting many small experiments and other processes.

Specifications	
Packaging Type	Cardboard Carton of 6 Cylinders
Dimensions Carton of 6 Product Only	(H) 370 mm (W) 350 mm (D) 240 mm (H) 330 mm (Ø) 102 mm
Materials of Construction Cylinder Valve Valve Seal Base	Welded Steel Brass PTFE Plastic
Operating Temperature	-20°C to +60°C
Standards Cylinder Valve	EN 12205-2001 / TPED 99/36 EN 15614-1 EN 1418 CE COMPLIANT CE Directive 2010/35/EU (T-PED)
Outlet Connection	M10 x 1 mm Male
Gas Volume	0.22 m ³
Water Capacity	2.2 L
Pressure	10,000 kPa @ +20°C
Test Pressure	14,500 kPa
Purity	99.995 % (Minimum)
Boiling Point	-195.8°C
Warranty	1 Year (Manufacturer's Defect)
Country of Origin	Italy



Part No	Composition	Formula	UN No.	Weight (kg)	
				Nett	Gross (Carton of 6)
GTNI2	100% Nitrogen	N ₂	1066	2.33	14.36

Note: Weights are indicative only and may vary slightly between cylinders.

ARGON AND ARGON MIXTURES

To obtain the best results, it is important to use the correct gas or gas mixture for the composition of the material being welded. This range of cylinders is ideal for use with smaller welders and where access is limited.

Applications include:

Argon – MIG welding of aluminium and all TIG welding.

Argon / CO₂ – MIG welding of carbon steel.

Argon / O₂ – MIG welding of stainless steel.

Specifications	
Packaging Type	Cardboard Carton of 6 Cylinders
Dimensions Carton of 6 Product Only	(H) 365 mm (W) 350 mm (D) 240 mm (H) 314 mm (Ø) 102 mm
Materials of Construction Cylinder Valve Valve Seal Base	Welded Steel Brass PTFE Plastic
Operating Temperature	-20°C to +60°C
Standards Cylinder Valve	EN 12205-2001 / TPED 99/36 EN 15614-1 EN 1418 CE COMPLIANT CE Directive 2010/35/EU (T-PED)
Outlet Connection	M10 x 1 mm Male
Gas Volume	0.22 m ³
Water Capacity	2.2 L
Pressure	10,000 kPa @ +20°C
Test Pressure	14,500 kPa
Purity	99.995 % (Minimum)
Boiling Point	-185.8°C
Warranty	1 Year (Manufacturer's Defect)
Country of Origin	Italy



Part No	Composition	Formula	UN No.	Weight (kg)	
				Nett	Gross (Carton of 6)
GTAR2	100% Argon	Ar	1006	2.43	14.96
GTARC102	90% Argon 10% Carbon Dioxide	Ar / CO ₂	1956	2.46	15.14
GTAROX2	98% Argon 2% Oxygen	Ar / O ₂	1956	2.48	15.26

Note: Weights are indicative only and may vary slightly between cylinders.

DISPOSABLE GAS CYLINDERS

CARBON DIOXIDE

The carbon dioxide cylinders and gas are to a food grade standard, so they have a wide range of uses.

Applications include:

Beer Dispensing – Counter top beer dispensing machines use low pressure and small amounts of gas, therefore the cylinders are a perfect, compact supply solution.

Carbonated water – Due to their size and convenience, many carbonated water machines use these cylinders.

Aquariums – Ideal for bubbling CO₂ through fish aquariums.

Laboratory – Ideal for conducting many small experiments.

Specifications	
Packaging Type	Cardboard Carton of 6 Cylinders
Dimensions Carton of 6 Product Only	(H) 365 mm (W) 350 mm (D) 240 mm (H) 314 mm (Ø) 102 mm
Materials of Construction Cylinder Valve Valve Seal Base	Welded Steel Brass PTFE Plastic
Operating Temperature	-20°C to +60°C
Standards Cylinder Valve	EN 12205-2001 / TPED 99/36 EN 15614-1 EN 1418 CE COMPLIANT CE Directive 2010/35/EU (T-PED)
Outlet Connection	M10 x 1 mm Male
Contents	1,000 g
Water Capacity	2.2 L
Pressure	6,000 kPa @ +20°C
Test Pressure	14,500 kPa
Purity	99.995 % (Minimum)
Boiling Point	-78.5°C
Warranty	1 Year (Manufacturer's Defect)
Country of Origin	Italy



Part No	Composition	Formula	UN No.	Weight (kg)	
				Nett	Gross (Carton of 6)
GTCD22	100% Carbon Dioxide	CO ₂	1013	3.10	18.98

Note: Weights are indicative only and may vary slightly between cylinders.

HELIUM

Applications include:

Balloon Inflation – These cylinders are ideal for inflating small numbers of balloons and they are supplied with a disposable inflator.

Leak Testing – Due to the low density of helium it is ideal for pressure leak testing of components.

Laboratory – Ideal for conducting many small experiments using helium, where a large cylinder is not required.

Specifications	
Packaging Type	Cardboard Carton of 6 Cylinders
Dimensions Carton of 6 Product Only	(H) 365 mm (W) 350 mm (D) 240 mm (H) 314 mm (Ø) 102 mm
Materials of Construction Cylinder Valve Valve Seal Base	Welded Steel Brass PTFE Plastic
Operating Temperature	-20°C to +60°C
Standards Cylinder Valve	EN 12205-2001 / TPED 99/36 EN 15614-1 EN 1418 CE COMPLIANT CE Directive 2010/35/EU (T-PED)
Outlet Connection	M10 x 1 mm Male
Gas Volume	0.22 m ³
Water Capacity	2.2 L
Pressure	10,000 kPa @ +20°C
Test Pressure	14,500 kPa
Purity	99.995 % (Minimum)
Boiling Point	-269°C
Warranty	1 Year (Manufacturer's Defect)
Country of Origin	Italy



Part No	Composition	Formula	UN No.	Weight (kg)	
				Nett	Gross (Carton of 6)
GTHE2	100% Helium	He	1046	1.82	11.40

Note: Weights are indicative only and may vary slightly between cylinders.

REGULATORS AND ACCESSORIES

The disposable cylinders have different valving requirements to those cylinders that are designed to be refilled. As a result, there are dedicated regulators and other accessories that have been designed specifically for use with the range of disposable cylinders.

ARGON AND ARGON MIXTURES – WELDING

The regulators for argon and argon mixtures are a very simple but reliable design and come with or without pressure gauge. They are available with a push fit outlet or the standard 5/8-18 UNF RH Male, with a nut and small hose barb to suit the hoses on small inverter welding machines.

Specifications	
Packaging Type	Cardboard Box
Materials of Construction	
Body	Brass
Seat Seal	PTFE
Diaphragm	EPDM
Knob	Plastic
Inlet Seal	PU
Pressure Gauge	
Case	Mild steel
Stem	Brass
Internals	Copper and Brass
Inlet Connection	M10 x 1 mm Female
Flow Rate	0-8 L/min
Warranty	1 Year (Manufacturer's Defect)
Country of Origin	Italy



Part No	Outlet Connection	Dimensions (mm)		Weight (kg)	
		Product Only	With Packaging	Nett	Gross
OTMRIGP5	5/8-18 UNF RH Male	(H) 135 (W) 85 (D) 26	(H) 115 (W) 90 (D) 50	0.26	0.28

ARGON AND ARGON MIXTURES – WELDING

This regulator for argon and argon mixtures is a lightweight, cost effective and reliable piston design which include a contents pressure gauge. The outlet flow is set using the litres per minute scale on the body. The outlet is the standard 5/8-18 UNF RH Male for standard hose fittings and also come with a nut and hose barb to suit the 4mm ID hoses on small inverter welding machines.

Specifications	
Packaging Type	Cardboard Box
Materials of Construction	
Body	Aluminium
Seat Seal	PTFE
Diaphragm	Aluminium
Knob	Aluminium
Inlet Seal	PU
Pressure Gauge	
Case	Mild steel
Stem	Brass
Internals	Copper and Brass
Inlet Connection	M10 x 1 mm Female
Flow Rate	0 – 20 L/min
Warranty	1 Year (Manufacturer's Defect)
Country of Origin	China



Part No	Outlet Connection	Dimensions (mm)		Weight (kg)	
		Product Only	With Packaging	Nett	Gross
RC1DARFGM10	5/8-18 UNF RH Male	(H) 42 (W) 115 (D) 60	(H) 90 (W) 120 (D) 50	0.22	0.24

NITROGEN – HVAC-R

This regulator, to suit the nitrogen disposable gas cylinders, is specifically made for the air conditioning and refrigeration industry. It has a high outlet pressure for testing of pipework after welding and can be used for purging, drain clearing and dust removal. The outlet takes a standard hose fitting common to this industry.

Specifications	
Packaging Type	Cardboard Box
Materials of Construction	
Body	Brass
Seat Seal	PTFE
Diaphragm	
Knob	Plastic
Pressure Gauge	
Case	Mild steel
Stem	Brass
Internals	Copper and Brass
Inlet Connection	M10 x 1 mm Female
Warranty	1 Year (Manufacturer's Defect)
Country of Origin	China



Part No	Outlet Connection	Delivery Pressure (kPa)	Dimensions (mm)		Weight (kg)	
			Product Only	With Packaging	Nett	Gross
RG1MNI15	1/4" SAE Flare	0-1500	(H) 66 (W) 92 (D) 90	(H) 150 (W) 130 (D) 120	0.56	0.61

REGULATORS AND ACCESSORIES

CARBON DIOXIDE – BEER DISPENSE, WINE DISPENSE AND WATER CARBONATION

The beverage regulator range are made to food grade standards and suit various beverage applications, including beer dispense, water carbonation and a special very low outlet pressure, two stage wine dispense regulator.

Specifications	
Packaging Type	Cardboard Box
Materials of Construction	
Body	Brass
Seat	EDPM
Seat Seal	PTFE
Diaphragm	EPDM
Knob	Plastic
Inlet Seal	NBR 70
Pressure Gauge	
Case	Mild steel
Stem	Brass
Internals	Copper and Brass
Inlet Connection	M10 x 1 mm Female
Maximum Working Pressure	13,000 kPa
Warranty	1 Year (Manufacturer's Defect)
Country of Origin	Italy



Part No	Outlet Pressure (kPa)	Outlet Connection	Dimensions (mm)		Weight (kg)	
			Product Only	With Packaging	Nett	Gross
RIMCD4P	400	1/4" SAE Flare Male	(H) 89 (W) 85 (D) 90	(H) 70 (W) 130 (D) 110	0.38	0.41
RIMCD4M10	400	5/16" Push Fit	(H) 80 (W) 95 (D) 85	(H) 137 (W) 126 (D) 70	0.41	0.46
RIM2NIM10	30	5/16" Push Fit	(H) 140 (W) 110 (D) 70	(H) 137 (W) 126 (D) 70	0.97	0.99

REGULATORS AND ACCESSORIES

When repairing refrigeration / air conditioning piping, the internal area of the pipe should be purged with nitrogen to prevent oxidation around the internal joint during the brazing or silver soldering process. The Tesuco purge tools allow for a quick and easy positive seal for many different pipe dimensions. A positive seal for the nitrogen purge process reduces the amount of gas used and limits any ingress of air during the repair.

NITROGEN PURGE TOOLS

Purge tools are supplied in two sizes to suit size ranging of pipe. They have a knurled hand grip for easy use and to allow for positive placement in the pipe.

Specifications	
Packaging Type	Shell Pack
Materials of Construction	Anodised Aluminium
Inlet Thread	1/4" SAE Flare (7/16-20 UNF)
Warranty	1 Year (Manufacturer's Defect)
Country of Origin	China



Part No	Pipe Size Range (mm)	Orifice Size (mm)	Dimensions (mm)		Weight (kg)	
			Product Only	With Packaging	Nett	Gross
GEPT1	5 – 20	3	(L) 150 (ø) 30	(H) 300 (W) 120 (D) 35	0.08	0.13
GEPT2	20 – 29	6	(L) 150 (ø) 35	(H) 300 (W) 120 (D) 35	0.24	0.29
GEPTT	See Above			(H) 300 (W) 120 (D) 35	0.32	0.37

