Elcometer blast machines are available in a range of easy-to-order kits to get you up and running as quickly and easily as possible.

Blast Kit 1

- Elcometer Abrasive Blast Machine
- RCV 4000+ Remote Control Valve with Silencer, Exhaust & Safety Petcock
- 20m[1] (65.6ft) Pneumatic Control Hose with Deadman's Handle (DMHII)
- Air Manifold
- Choke Valve and Pusher Line
- Abrasive Metering Valve & Metal Pot Coupling
- Hard Wearing Mixer T[2]
- Pressure Test Certificate
- Moisture Separator

Blast Kit 2

All of Blast Kit 1 plus:

- 20m[1] (65.6ft) 1¼" (32mm) ID Blast Hose Assembly complete with Cast Iron Coupling and Nylon Nozzle Holder

Personal Protection Kits

Elcometer offers a full range of personal protection & operator safety equipment including blast helmets, blast suits, capes and gloves, breathe air filters and breathe air hose.

[1] 10m (32.8ft) for Elcometer 1020 variants

[2] When fitted with a GV & AGV Media Valve

ELCOMETER ENGINEERED

Every aspect of an Elcometer Blast Machine uses high quality components, is manufactured to an industry leading specification and designed and engineered by Elcometer experts.

Heavy Duty Construction

6mm (¼") steel wall thickness, double weld seams & coated with a tough 2 pack epoxy multi-coat paint for corrosion protection.

High Flow Pipework & Valves

Large bore 38mm (1½") pipework throughout ensures efficient airflow and minimal pressure loss.

Concave Dishes

Our high flow concave dish comes complete with a deflector plate for fast filling & operator safety.

Fast Flow Cones

45/90° cone to maximise abrasive flow rate.

Remote Control Valves

Used with a deadman's handle, the 1½" (38mm) remote control valve minimises air flow loss and shuts the blast system down quickly and safely.

Precision Metering Valves

Range of precision metering valves offer accurate control of your blast media, even whilst blasting.

Exhaust Manifolds

Hard working exhaust manifolds allow air to exhaust through the silencer quickly & safely, with minimum wear.

Moisture Separators

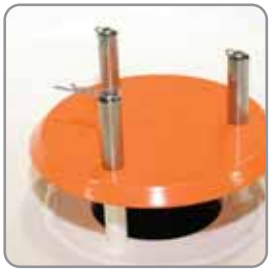
High performance moisture separator prevents water and oil from entering the blast pot.

Hard-wearing Mixer T's

Machined out of a single block of high grade machine steel, the hard-wearing Elcometer Mixer T is designed to last.

Serviceable Exhaust T's

When a blast machine exhausts, it can quickly wear out elbow joints, that is why Elcometer Exhaust T's are fitted with sacrificial wear nuts to minimise wear and maximise lifetime.



Adjustable Deflector Plates

The adjustable height deflector plate is designed to prevent abrasive escaping the blast machine when the pop up valve is engaged - keeping you safe.

Large Inspection Access

Large, easy to remove access doors to make maintenance easier and faster.

Reinforced Pop Up Valves

The heavy duty internal pop up valve is long lasting and quickly responds to pressurisation.

Narrow & Protected

Designed to fit through most standard doorways, valves and pipework are protected, even when laid down during transportation.

Flexible Pusher Lines

Flexible pusher line ensures air flow without pressure loss caused by elbows.

Air Manifold

The Elcometer Air Manifold allows multiple outlets for ancillary equipment and a pressure relief valve.

Waterproof Sieves & Lids

Optional sieves & lids are designed to fit on the outside of the machine to prevent water ingress, keeping the media dry.

Balanced by Design

Easy to manoeuvre on site by one person, no matter their size.

SAFE & RELIABLE

Rugged, reliable and easy to use, Elcometer blast machines & valves are supplied with a full 12 month warranty and are engineered & tested to be incredibly efficient, durable and safe.

Excellence Is Our Standard

Designed and manufactured at our purpose built production facility in Manchester, England, Elcometer blast machines are CE approved, fully tested and certified to International Standards PED 2014/68EU.

Built to Last

Manufactured out of heavy duty 6mm (¼") steel with double weld seams and with a tough marine specification multi-coat anti-corrosion paint, Elcometer blast machines exceed CE/PED Standards to maximise their lifespan.

Putting You in Control

Elcometer's state-of-the-art RCV4000 & RCV4000+ Remote Control Valves allow you to safely control the blast machine at the nozzle. The high flow exhaust manifold allows air to quickly depressurise the blast machine.

Emergency Shut Down

Every Elcometer blast machine is fitted with a large and easy to reach safety petcock as standard. In an emergency it will isolate the deadman's handle circuit and depressurise the blast machine quickly and safely.

Peace of Mind

Pressure relief valves must be incorporated into the system to meet global safety standards. Elcometer offer certified pressure relief valves that can be easily fitted to RCV4000+ remote control valves, automatically discharging the compressed air in the blast machine upon reaching the release pressure.

Productivity is a function of pressure and air flow.

"For every psi at the nozzle above 100psi (7bar) you get a 1.5% increase in productivity."

ENHANCE YOUR PERFORMANCE

Optimising the volume, speed and pressure of air to the nozzle results in greater blasting efficiency. Higher pressure and speed of air at the nozzle will also allow use of a larger nozzle size, resulting in faster blast area coverage, allowing you to cover more in less time.

Operating at more efficient blast pressures will also result in less abrasive usage thus saving money and clean up time!

Minimise Your Pressure Loss

The design of your blast machine together with your blast hose diameter, length, age, wear and quality can effect the pressure at the nozzle.

This is why we manufacture blast machines which have a maximum working pressure of either 12 or 15bar (174 or 217psi), and have been engineered for minimal pressure loss - so that you will always have the nozzle pressure you need to maximise your productivity.

Maximise Your Cubic Air Flow Per Minute

With an internal pipe diameter of 1½" (38mm) across our blast machines we have optimised the volumetric flow rate of air through the system every minute so that you can select a larger nozzle diameter, allowing you to blast more in less time.

Blast for Longer

Elcometer blast machines have a maximum working pressure of 12 or 15bar (174 or 217psi) allowing you to maintain the nozzle pressure over significantly longer lengths of hose, even as it wears.

Reduce Your Media Costs

Elcometer blast machines are designed to deliver the optimum pressure and flow rate at the nozzle, allowing you to use less abrasive to blast the same area to the same profile, saving you money.

Our abrasive media valves come with fingertip adjustment so that you can precisely control the media flow, even whilst blasting.

Reduce Your Maintenance

Elcometer's blast machines are engineered to be extremely durable so that parts last longer. Forcing abrasive through a high pressure system will, however, always create wear and tear so we have designed our machines to be easy and fast to maintain so that you can maximise your blast time.

Be In Control

Designed for precision control and minimal air flow loss, the Elcometer RCV4000 & RCV4000+ Remote Control Valves allows you to safely control a blast machine at the nozzle, fast.

"Greater pressure at the nozzle lets you work faster as every 1psi (0.07bar) above 100psi (7bar) equals 1.5% productivity increase."

MAXIMISE UP TIME

When you are not blasting you are not earning, that's why Elcometer blast machines are engineered to work harder, last longer and be faster to maintain.

Quick and Easy

Whilst Elcometer pop up valves come with reinforced metal guards so that they last longer, when they need to be replaced you can do so quickly and easily thanks to the large access doorway which is wide enough for both of your arms. As each door comes with an ElcoFit™ wraparound sealing gasket, you don't even have to worry about gasket alignment.

Maintenance in Minutes

Maintenance is always required to prolong the service life of your blast machine. To minimise your downtime, the remote control valve, exhaust, silencer and moisture separator can be quickly swapped out in one assembly by undoing just two union joints. So whilst the assembly is being serviced, you can carry on blasting.

Tough T's

The Elcometer Mixer T is made from ultra-hard wearing machined steel so that they last longer and, when they have started to wear out, just rotate them by 180° to double their service life.

Each Elcometer Exhaust T features a replaceable sacrificial plug designed to extend the life of the assembly.

Extend Your Lifetime

Unlike other media valves, Elcometer GV and AGV abrasive metering valves are fitted with a replaceable elcoTOUGH™ rubber valve liner which protects and prolongs the lifetime of the valve itself.

Integrated scales on the valves clearly indicate the valve setting and tells you when you need to change the liner, so you don't have to guess, or open up the valve to check.

Each elcoTOUGH™ liner can last more than 3 times longer than other rubber liners and can be rapidly replaced without the need to remove the valve from the machine.

New elcoTOUGH™ Valve Liner

elcoTOUGH™ Valve Liner after 1665 hours using copper slag at 8bar (116psi)

Whether you are blasting at a dockyard or in a blast room, **Elcometer offers a range of blast machines,** from 100 up to 285 litres (3.53 - 10.06cu ft), available with **15bar (217psi) working pressure** to maximise productivity.

Abrasive Blast Machines are designed to provide the correct pressure and flow of a mix of air and blast media through the blast nozzle. The pressure of the air and media mix at the nozzle is critical in terms of providing the optimum conditions for efficient blasting.

Nozzle pressure below 100psi (6.89bar) will dramatically reduce the process efficiency and result in greater media usage and slower blast coverage.

Generating the sufficient blast nozzle pressure to produce the required blast pattern is dependent upon the compressor pressure, the blast machine pressure and the total system pressure loss caused by hose length, age, wear, media type etc.

Studies have shown that nozzle pressures of 100psi (6.89bar) provide up to 40% more efficient blast coverage than nozzle pressures of 72psi (5bar).

To provide the optimum blast nozzle pressure of 100psi (6.89bar) or greater, it is often necessary to use a blast machine that is capable of running at pressures significantly above the required nozzle pressure.

The inherent pressure drop that occurs when using long hose lengths or worn hose means that an abrasive blast machine with a maximum working pressure of 150psi (10.34bar) can produce significantly less than 100psi (6.89bar) at the nozzle - which results in a reduction to your blast efficiency.

To overcome this, Elcometer offer a range of high pressure (H) abrasive blast machines that are capable of operating at 217psi (15bar) allowing you to overcome any efficiency losses associated with long or worn hose and still generate the pressure you require at the blast nozzle, improving your efficiency.

Elcometer high pressure blast machines are **CE approved** and fully tested and certified to **PED 2014/68EU** with a maximum working pressure of 15bar (217psi).

	Options	Elcometer 20100H	Elcometer 24200H	Elcometer 24285H
Capacity	Volume	100 litres (3.53cu ft)	200 litres (7.06cu ft)	285 litres (10.06cu ft)
	Aluminium Grit	234kg (515lbs)	468kg (1031lbs)	667kg (1469lbs)
	Steel Shot/ Garnet	440kg (971lbs)	880kg (1942lbs)	1254kg (2767lbs)
Model Options	Portable	■	■	■
	Static	■	■	■
Valve Options	FV: Flat Valve GV: General Valve AGV: Automatic General Valve	FV GV AGV	FV GV AGV	FV GV AGV
Dimensions	Pot Diameter	508mm (20")	610mm (24")	610mm (24")
	Height	1175mm (46")	1380mm (54")	1665mm (66")
	Width	704mm (28")	794mm (31")	794mm (31")
	Depth	865mm (34")	1109mm (44")	1109mm (44")
	Weight	153kg (337lbs)	205kg (452lbs)	231kg (509lbs)

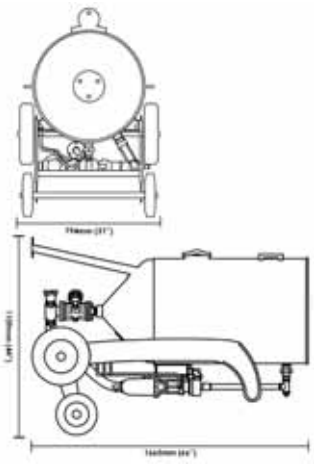
Elcometer 24285H

285 litre

10.06cu ft

The **Elcometer 24285** High Pressure Abrasive Blast Machine is ideal for large scale applications requiring continuous high production blasting.

- Ideal for site work or blast room installation
- One or two operators from a single blast machine
- Ideal for refilling from a storage hopper
- Choice or static or twin wheeled portable pot
- Available with a range of media valves to suit your application
- Heavy duty 6mm (¼") construction
- Easy & quick to service



Kit Selection

Part Numbers

Elcometer Blast Machine Kits are available with:

Flat Valve **(F)**

General Media Valve **(G)**

Automatic General Valve **(A)**

	Portable						Static					
	Kit 1			Kit 2			Kit 1			Kit 2		
	M24285H-FV1-B	M24285H-GV1-B	M24285H-AGV1-B	M24285H-FV2-B	M24285H-GV2-B	M24285H-AGV2-B	M24285HS-FV1-B	M24285HS-GV1-B	M24285HS-AGV1-B	M24285HS-FV2-B	M24285HS-GV2-B	M24285HS-AGV2-B
24" 285 litre (610mm, 10.06cu ft) Abrasive Blast Machine	●	●	●	●	●	●	●	●	●	●	●	●
Pressure Test Certificate	●	●	●	●	●	●	●	●	●	●	●	●
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer	●	●	●	●	●	●	●	●	●	●	●	●
20m (65.6ft) Pneumatic Control Hose & Deadman's Handle (DMHII)	●	●	●	●	●	●	●	●	●	●	●	●
Choke Valve and Pusher Line	●	●	●	●	●	●	●	●	●	●	●	●
Abrasive Metering Valve with Mixer T[1] and Metal Pot Coupling	F	G	A	F	G	A	F	G	A	F	G	A
Moisture Separator	●	●	●	●	●	●	●	●	●	●	●	●
20m 1½" (65.6ft, 38mm) ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Holder				●	●	●				●	●	●
Externally Mounted Sieve and Lid				●	●	●				●	●	●

Elcometer 24285H High Pressure Blast Machine Technical Specification

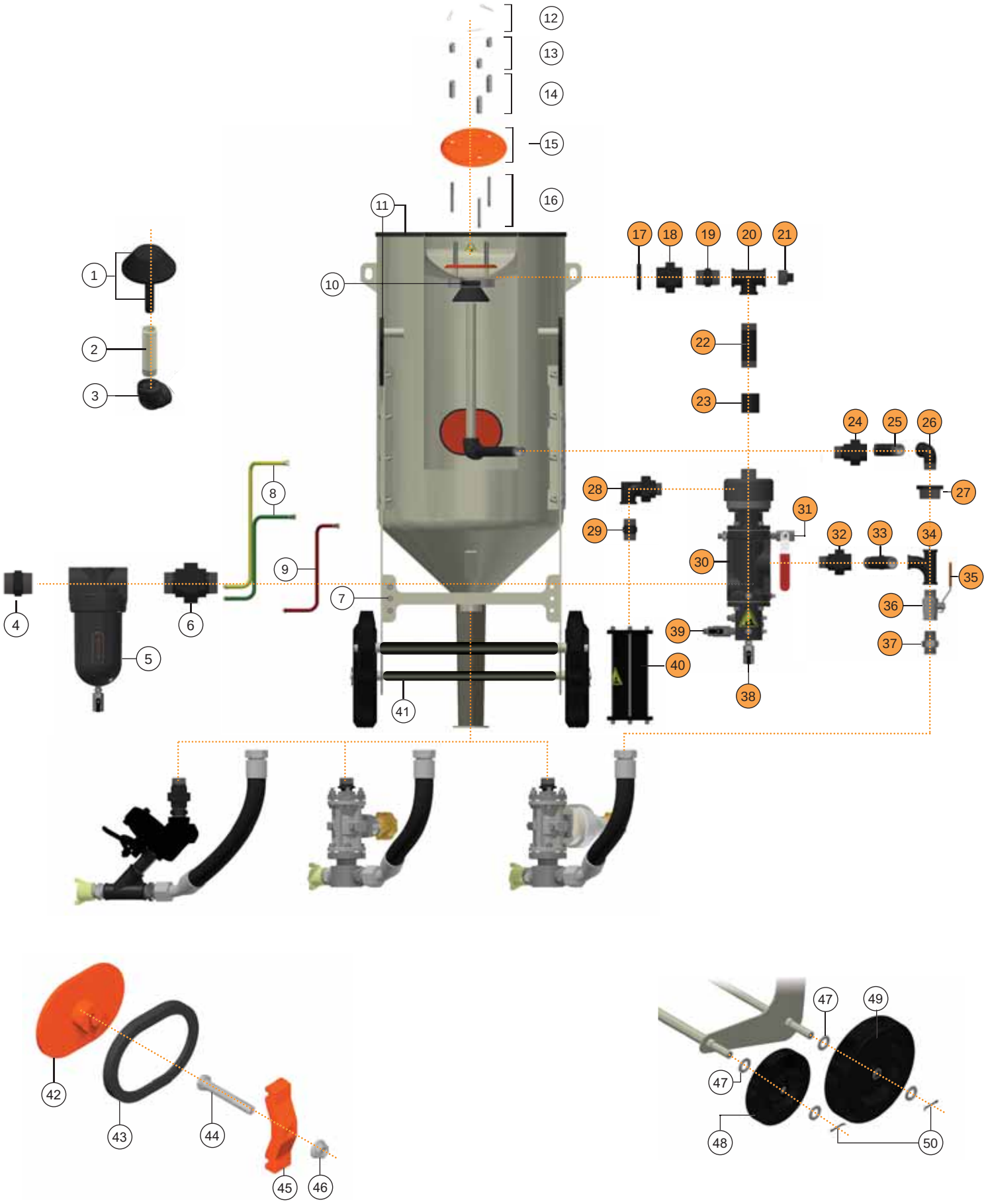
Capacity[2]		
Volume	285 litres	10.06cu ft
Aluminium Grit	667kg	1469lbs
Steel Shot/Garnet	1254kg	2767lbs
Pot Diameter	610mm	24"
Height	1665mm	66"
Width	794mm	31"
Depth	1109mm	44"
Weight	231kg	509lbs
Pipework Diameter	38mm	1½"
Maximum Working Pressure (WP)[3]	15bar	217psi
Operating Temperature Range	0 to 60°C	32 to 140°F

1. Y Mixer for Flat Valve versions.

2. Garnet & steel shot capacity figures based on typical media bulk density. Note that bulk density also varies according to media size and grade.

3. Do not operate this abrasive blast machine unless there is an appropriate safety pressure relief valve within the pressurised system as a whole.

Elcometer 24285H High Pressure Blast Machine



Elcometer 24285H High Pressure Blast Machine

Spare Parts

Item	Part Number	Description
1	MT28622	Pop Up Valve
2	MT28631-6	1" (25mm) Pop Up Shaft for Elcometer 24285H
3	MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)
4	MT29663	1½" (38mm) Hex Nipple
5	MT28617	Moisture Separator Assembly (see page 4-7)
6	MT29662	1½" (38mm) Male/Male Union Taper Seat
7	MT29664	¼" (6mm) Bulkhead Connector (x3)
8	MT29727	Elcometer 24285H Twin Airline Hose Assembly (Yellow & Green)
9	MT29728	Airline Assembly for Elcometer 24285H (Red)
10	MT28627-5	Pop Up Valve O-Ring (x5)
11	MT31073	Protective Edging Strip Kit (2.7m) (8.9ft)
12	MT29667	Spring Cotter Pin Type E (x3)
13	MT29719	Short Deflector Plate Spacer - 25mm (x3) (1")
14	MT29720	Long Deflector Plate Spacer - 51mm (x3) (2")
15	MT29670	Deflector Plate
16	MT28629-3	Deflector Plate Shaft - 82mm (x3) (3.2")
17	MT29672	1" (25mm) Backnut (Recessed)
18	MT29673	1" (25mm) Female/Female Union Taper Seat
19	MT29679	1" (25mm) Hex Nipple
20	MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)
21	MT29681	1" (25mm) Exhaust Plug
22	MT29729	1" (25mm) Pipe for Elcometer 24285H (448mm) (17.6")
23	MT29683	1" (25mm) Socket
24	MT29704	1" (25mm) Male/Female Equal Union Taper Seat
25	MT29730	1" (25mm) Pipe for Elcometer 24285H (106mm) (4.2")
26	MT29706	1" (25mm) Male/Female 90° Elbow
27	MT29707	1" to 1½" Reducing Bush (25 x 38mm)
28	MT28599	¾" (19mm) Reinforced Union Elbow
29	MT29688	¾" (19mm) Hex Nipple
30	MT29465	Elcometer RCV4000+ Remote Control Valve
31	MT29656	Petcock Valve Assembly (Red Handle)
32	MT30122-5	1½" (38mm) Male/Female Equal Union Taper Seat
33	MT29726	1½" (38mm) Pipe for Elcometer 24285H (84mm) (3.3")
34	MT29708	1½" (38mm) Equal Pitcher T
35	MT30094	1½" (38mm) Choke Valve Handle
36	MT29177	1½" (38mm) Choke Valve Handle Assembly (includes MT30094 Choke Valve Handle)
37	MT29710	1½" (38mm) 60° Cone Male/Male Adaptor
38	MT29658	¼" (6mm) Ball Valve Assembly (Black Handle)
39	MT29660	¼" (6mm) Airline Ball Valve Assembly (Black Handle)
40	MT28597	Exhaust Silencer Assembly
41	MT29692-4	Protection Guard for Elcometer 24285H
42	MT28616	Elcometer Inspection Hatch Door for Elcometer 24285H
43	MT28613	ElcoFit™ Door Sealing Gasket
44	MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm
45	MT28615	Inspection Hatch Door Yoke
46	MT29696	M16 Hexagon Flanged Nut
47	MT29697	Flat Washer (x8)
48	MT28636	Ø250mm (9.8") Diameter Wheel (x1)
49	MT28637	Ø350mm (13.8") Diameter Wheel (x1)
50	MT29698	Split Cotter Pin (x4)
-	MT29490-6	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)
-	MT29180	Elcometer Safety Label Kit