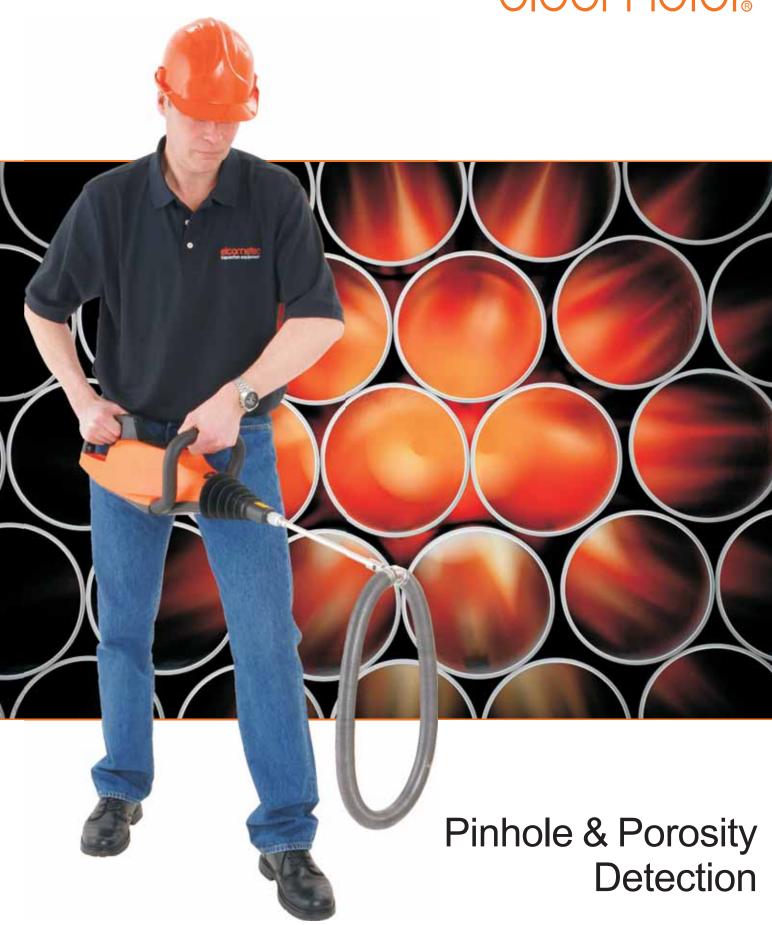
elcometer





Pinhole & Porosity Detection

Premature corrosion of a substrate is usually due to a coating failure. A major cause is the presence of flaws in the finished coating.

Collectively referred to as porosity, the main types of flaws are:

Runs & Sags: Coatings move under gravity leaving a thin dry film.

Cissing: When a coating does not re-flow to cover the voids

generated by air bubbles being released from the

surface of a coating.

Cratering: If the substrate is wet or the coating has poor flow

characteristics, voids are created in the coating.

Pinholes: Caused by air entrapment which is then released from

the surface, or by the entrapment of particulates

(dust, sand etc.) which do not stay in place.

Over Coating: If too much coating is applied, as it cures internal

stresses of the coating can cause it to crack.

Under Coating: Un-coated areas, or where the coating flows away

from edges or corners of a substrate or welds. Insufficient coating over a rough surface profile may

also leave the peaks of the profile exposed.





There are, essentially, three flaw detection methods:

UV Pinhole Detection

UV light can be used as a low cost, quick method of detecting pinholes in coatings. A base coat containing a UV fluorescing additive is applied. When the UV flashlight shines on the coating, areas where the base coat is not covered fluoresce, identifying the location of the pinhole.

Wet Sponge Technique

A low voltage is applied to a moist sponge. When the sponge moves over a coating flaw, liquid penetrates to the substrate and completes an electrical circuit, setting off the alarm. The wet sponge technique is suitable for measuring insulating coatings less than 500µm (20mils) on conductive substrates, and is ideal for powder coatings and other coatings where the user does not wish to damage the coating.

High Voltage Technique

The high voltage, or porosity technique, can be used to test coatings up to 25mm (1") thick and is ideal for inspecting pipelines and other protective coatings. Coatings on concrete can also be tested using this method.

A power supply generates a high voltage DC or pulsed DC to a probe. As the probe passes over a flaw, a spark at the contact point sets off the alarm.

This technique is suitable for locating the types of flaws described above, although care is required on thin coatings.





Elcometer 260 UV Pinhole Flashlight

Battery powered and housed in a rugged aluminium case, the Elcometer 260 provides a quick, low cost method of testing coatings for pinholes.

Featuring a single Watt purple light emitting diode, the Elcometer 260 UV flashlight has a beam wavelength of 405nm (±5nm), which the human eye perceives as a purple light.

A UV reflective additive is applied to the base coat. The UV flashlight shines the purple light on the coating, the base coat fluoresces where it is not covered by any subsequent coating - identifying any pinholes in the top coat.







Technical Specification	on
Part Number	D2602
Beam Wavelength	405nm ±5nm
Flashlight Casing	Hard anodised aluminium
Battery Life	6 hours (continuous use)
Battery Type	2 x CR123A lithium batteries
Lens Type	Dual element diffuser
Dimensions	150 x 35mm (6 x 1.4")
Weight	173g (6.1oz)
Packing List	Elcometer 260 UV Pinhole Flashlight, UV protective glasses, nylon belt holster, 2 x 123A lithium batteries, operating instructions
	e with: (see Standards Explained inside back cover)
ASTM E2501	

Accessories
T26020140 UV Protective Glasses
T26020141 2 x Replacement Lithium 123A Batteries



Elcometer 270 Pinhole Detector

The Elcometer 270 range utilises the wet sponge technique and sets the standard for wet sponge detectors - high quality, low voltage detectors with a wide range of accessories to meet your requirements.



(see Standards Explained inside back cover)

BS 7793-2

ISO 8289-A

ISO 14654

JIS K 6766

NACE RP 0188

NACE SP 0188

NACE TM0384

AS 3894.2

ASTM G6

ASTM G62-A

ASTM D 5162-A



Wet Sponge Pinhole Detection

Accessories



Standard wand

A universal flat sponge to suit almost all applications

Spare flat sponge set

Pack of 3 sponges; 150x60x25mm (6x2.3x1") T27016867

T27018050



Roller sponge wand

Ideal for large flat surface

Spare roller sponge

T27016960

T27018051



Separate wand adaptor

with belt clip - converts the gauge into a separate pinhole detector

Telescopic wand adaptor

with belt clip - extends to 1m(39"), ideal for floors or high areas

T27016999

T27016998

T27018191



Extension piece

420mm (16.5") extensions to expand operators reach Additional extension pieces can be connected to each other

T27016965



Pinhole Inspector's Kit

The complete pinhole detection kit. Each kit is supplied with:

- 1 x separate wand handle & lead
- 1 x roller wand
- 1 x 10m (32') signal return cable
- 2 x extension pieces
- 1 x telescopic extension
- 1 x belt clip
- 1 x bottle of wetting agent
- 3 x AA batteries
- 1 x spare flat sponge
- 1 x spare roller sponge

The kit does not include the main instrument; simply add the model number to the order



Return cable - 4m (13')

supplied as standard, complete with crocodile clip and plug

Return cable - 10m (32')

supplied on a drum, complete with clip and connection plug

T99916954

T99916996

T27018024



Wetting agent

50ml (1.7floz) bottle - helps aid the fast detection of pinholes. Simply add to the water used to dampen the sponge

Technical	Specification
Model	



Model		Elcometer 270/3	Elcometer 270/2	Elcometer 270/4		
Part Number		D2703	D2702	D2704		
Voltage		9V and 90V	67.5V	9V, 67.5V and 90V		
Maximum Mea	asurement Range	500μm (20mils)	500μm (20mils)	500μm (20mils)		
Sensitivity		9V: 90kΩ ±5%	125kΩ ±5%	9V: 90kΩ ±5%		
		90V: 400kΩ ±5%		67.5V: 125kΩ ±5%		
				90V: 400kΩ ±5%		
Battery Life (c	ontinuous use)	9V: up to 200 hours	Up to 100 hours	9V: up to 200 hours		
		90V: up to 80 hours		67.5V: up to 100 hours		
				90V: up to 80 hours		
Battery Type		3 x AA (LR1600) 1.5V alkal	ine			
battery Type		(NiMH rechargeable batteries can also be used, battery life will be reduced by up to 75%)				
Accuracy of S	etting	±5%				
Dimensions	Without wand	210 x 42 x 37mm (8.3 x 1.7	x 1.5")			
Standard wand 175mm (6.9") long (including sponge)						
Weight		610g (21oz) including wand	I, cable and batteries			
Packing List		Pinhole Detector, standard wand and flat sponge, 4m (13' 2") return lead with crocodile clip, 3 x AA (LR1600) batteries and operating instructions				



Elcometer 280 Pulsed DC Holiday Detector

The Elcometer 280 is a 'stick type' holiday detector which has been designed to make pulsed DC high voltage holiday detection safer, easier and more reliable than ever before.

Using state of the art electronics, the Elcometer 280 allows users to inspect coatings - without connecting the earth return lead to the component substrate - ideal for inspecting large surfaces and pipelines.





he Elcometer 280 uses the high voltage pulsed DC technique to detect holidays in coatings - even if the coating is damp, dirty or slightly conductive.

From the two stage safety switch, bright LED's and screen icons signifying when the high voltage is on, to the extended ribbing to protect the user from spark creep, the Elcometer 280 sets the standard for high voltage measurement safety.

Using the wide range of probe accessories users can detect porosity / holidays in coatings up to 25mm (1") thick.

Rugged, shockproof and water resistant, each unit is designed for use even in the harshest of environments.



Elcometer 280 Features

Red LED indicates high voltage ON Earth signal return lead disconnected icon

Porosity Detector overload icon

indicates that the unit cannot obtain selected voltage with current accessory/coating combination

Calculation softkey select relevant standard & coating thickness value

Voltage adjustment softkey



Waterproof buzzer

Blue LED flashes as holidays are detected

Holiday detected icon

Battery symbol indicating remaining charge

Voltage selected

Porosity standard in use

used in conjunction with setting the coating thickness within the Voltage Calculator

Menu softkey

Voltage level achieved at probe





High Voltage Holiday Detection

echnical Specification		C certificat availabl			
Description	Model S	Model T			
Elcometer 280 Pulsed DC Holiday Detector		D280-T			
Elcometer 280 Pulsed DC Holiday Detector	or Inspection Kit D280-S-KIT	D280-T-KIT			
Rugged, Shock Proof & Water Resistant	•	•			
Integrated Safety Trigger Switch	•	•			
Quick Release Battery Pack	•	•			
Internal Jeep Tester	•	•			
Integrated Voltage Calculator		•			
Pulsed DC High Voltage Range	0.5kV - 35kV				
Voltage Adjustment	User adjustable: 0.5 - 1kV: 10 Volt ste	eps, 1 - 35kV: 100V steps			
High Voltage Output Accuracy	±5% or ±50V below 1000 Volts				
Pulse Repetition Rate	~30Hz				
Operating Temperature	0°C to 50°C (32°F to 120°F)				
Power Supply	Rechargeable lithium ion battery, fully	/ charged within 4 hours			
Typical Battery Life	Battery life is dependant on selected	voltage and load applied;			
	12" (DN305) Rolling Spring: 30 hour	rs at 10kV; 12 hours at 35kV			
	40" (DN1016) Rolling Spring: 22 hour	rs at 10kV; 8 hours at 35kV			
Instrument Case Dimensions	PC ABS case; (I x w x h): 603 x 219 x	(193mm (23.7 x 8.6 x 7.6")			
Weight (no probes attached)	3.0kg (6.6lb) - including battery pack	3.0kg (6.6lb) - including battery pack			
	Gauge (Model S or T), 5m (16') trailin pack, battery charger with mains cabl strap and operating instructions Elcometer 280 Pulsed DC Holiday De Gauge (Model S or T), 5m (16') trailin pack (2 supplied with Model T), batter (UK, EUR & US), stainless steel rollin Model T only), 250mm (9.8") probe extrap and operating instructions - pack wheeled transit case - ideal for transp	es (UK, EUR and US), should etector Inspection Kit g signal return lead, battery ry charger with mains cables g spring holder (supplied with ktension shaft, shoulder ked in a light weight, rugged,			
	- ideal for gauge transportation, with additional	T28022769			
	or bronze or 6m (30') of stainless steel rolling spr				
pipe and connected to both the grounding	n-grounded pipes. The conductive rubber mat is pin (supplied separately) and the signal return l	ead.			
(, 0 11	ameters up to 9" (NPS) / 229mm (DN)	T28022637-1			
1500mm (59") long - for pipe dia	ameters up to 18" (NPS) / 457mm (DN)	T28022637-2			
2500mm (98.5") long - for pipe	diameters up to 30" (NPS) / 762mm (DN)	T28022637-3			
3500mm (137.5") long - for pipe	e diameters up to 42" (NPS) / 1067mm (DN)	T28022637-4			
Grounding pin; 60cm (23.5") long x 0.2cm	(0.75") diameter	T28022748			
Trailing signal return lead, 5m (16')		T28022622			
10m (32') earth lead, clips each end (for u	se with the grounding mat)	T28022749			
10m (32') earth lead, clip / Elcometer 280	connector (for use with the grounding mat)	T28022750			



Elcometer 266 Holiday Detector

The Elcometer 266 revolutionises High Voltage DC testing of coatings porosity detection making it safer, easier and more reliable than ever before.

> A wide range of probe brushes and springs available

Voltage calculator automatically sets the correct voltage from your coating thickness value

Adjustable Voltage: 0.5kV - 1kV in 50V steps 1kV to 30kV in 100V steps

To change maximum voltage range, select a different handle; 5kV, 15kV or 30kV DC

> Internal Voltmeter/Jeep tester ensures that the test voltage equals the selected voltage

> > Dual safety switch on handle to avoid accidental switch on

Can be used in accordance with:

(see Standards Explained inside back cover)

ANSI/AWWA C213 ASTM D 5162-B ISO 2746 AS 3894.1 ASTM G 62-B ASTM C 536 BS1344-11

ASTM C 537 DIN 55670 **ASTM D 4787** EN 14430

ISO 29601 JIS K 6766 NACE RP0274 NACE RP0188

NACE SP0490



High Voltage Holiday Detection

Elcometer 266 Key Features



Interchangeable DC probe handles

Voltage Range	Max Coating Range
500 - 5,000 Volts	1.25mm (50mils)
500 - 15,000 Volts	3.75mm (150mils)
500 - 30,000 Volts	7.50mm (300mils)



Visual and audible holiday alarms

Bright LEDs on the handle, as well as a loud buzzer, clearly indicate when a holiday is detected



Internal jeep tester

Continuous testing ensures that the selected test Voltage is always generated - regardless of the battery life or climatic conditions



Integrated voltage calculator

Enter the test standard & the coating thickness then the gauge will automatically programme the correct voltage



Testing has never been safer

Ribbing provides additional user protection specifically designed to meet EN 61010



Second hand grip is available

Ideal for testing pipes and tank floors with 2 hands - without compromising safety



Removeable, quick charge batteries

Fully charge the battery pack in 4 hours, within the gauge or separately, for up to 40 hours of continuous testing



Universal probe adaptors

Enables the Elcometer 266 to work with all major holiday detector's accessories

Technical Specificatio	n
------------------------	---

C certificate available

Description	Part Number					
Elcometer 266*	D2664	D2664				
High Voltage Output Accuracy	±5% or ±50V below 1000 Volts					
Operating Temperature	0°C to 50°C (32°F to 1	20°F)				
Power Supply	Rechargeable lithium	ion battery, fully charged	within 4 hours			
Measured Current Flow Accuracy	±5% of full scale	Output Current:	0 - 100μA maximum			
Typical Battery Life - Backlight Off (On)	DC5: 40 (20) hours	DC15: 20 (15) hours	DC30: 10 (8) hours			
Instrument Case Dimensions	Waterproof, ABS case; 520 x 370 x 125mm (20.5 x 14.5 x 5")					
Weight	Base unit (including battery pack): 1.2kg (2.7lb) Handle: 0.6kg (1.3lb)					
Packing List	cable for high voltage h	oliday Detector, lithium bandle, 10m (32') signal re K, EUR and US), band bru pperating instructions	turn lead, battery charger			

Accessories DC5 (0 - 5KV) DC15 (0 - 15kV) DC30 (0 - 30kV) Elcometer 266 Probe Handle (Voltage)* T26620033-1 T26620033-2 T26620033-3 Second Hand Grip T26620081 Earth Signal Return Lead 4m(13'): T99916954 10m(32'): T99916996

For rolling springs, rubber or wire brush probes and other accessories see pages 14 - 18



Elcometer 236 Holiday Detector

This instrument provides high voltage porosity testing to detect pits, flaws, holes, etc, in a wide variety of non-metallic coatings.

Standard and telescopic handles available for hard to reach areas

Available in 2 versions; 15 and 30kV; fully adjustable in 100 Volt steps



ASTM C 537

ASTM D 4787

DIN 55670

EN 14430

NACE SP0490

NACE RP0274

NACE RP0188







Available in 2 versions, 15kV and 30kV, each Elcometer 236 unit provides the user with complete control of voltage and sensitivity settings.

Each unit is supplied in a convenient carrying case which also holds the probe handle and an additional (optional) external re-chargeable battery pack which doubles the testing time available.

Due to it's unique design, the probe handle can be replaced with a telescopic probe handle - extending the measurement reach up to almost 4m (13'), ideal for testing on large structures.

Technical Specification		C certificate available
	Elcometer 236 15kV Holiday Detector	Elcometer 236 30kV Holiday Detector
Part Number	D23615KV	D23630KV
Voltage Output	0.5 - 15kV in 100V steps	0.5 - 30kV in 100V steps
Display Resolution	0.01kV	0.1kV
Approximate Thickness Range	0 - 3.75mm (0 - 150mils)	0 - 7.5mm (0 - 300mils)
Alarms	Audible & Visual	
Power Supply	NiMH 12V internal rechargeable battery	/
Battery Life (approximate)	10/12 hours continuous use, 20/24 hou	urs with the optional external battery pack
Dimensions	200 x 170 x 70mm (6 x 7 x 3")	
Weight	2.8kg (6lb 3oz)	
Packing List		band brush probe, 2m (79") & 10m (394") er with 3 mains cables (UK, EUR and US), nstructions
Accessories		
T23622790-1	Telescopic probe handle, 600 - 1200mm	(24 - 47")
T23622790-2	Telescopic probe handle, 1800 - 3600mr	n (71 - 142")
T236139031	2m (6.5') earth signal return lead	
T236139032	10m (32') earth signal return lead	
T23615550	External battery pack	

For rolling springs, rubber or wire brush probes and other accessories see pages 14 - 18



Batteries, Cha	Part Number rgers & Eart T23615550 T23613907 T23613908 T23613909 T99923482	External rechargeable battery pack Battery charger & mains lead (UK 240V) Battery charger & mains lead (EU 220V) Battery charger & mains lead (US 110V)	Elcometer 236	Elcometer 266	Elcometer 280
	T23615550 T23613907 T23613908 T23613909	External rechargeable battery pack Battery charger & mains lead (UK 240V) Battery charger & mains lead (EU 220V)			
	T23613907 T23613908 T23613909	Battery charger & mains lead (UK 240V) Battery charger & mains lead (EU 220V)			
	T23613908 T23613909	Battery charger & mains lead (EU 220V)	•		
Core	T23613909				
-		Battery charger & mains lead (US 110V)	_		
-	T99923482		•		
		Rechargeable lithium ion battery pack		•	•
7	T99919999A	Battery charger & mains lead (UK 240V)		•	•
-	T99919999B	Battery charger & mains lead (EU 220V)		•	•
-	T99919999C	Battery charger & mains lead (US 110V)		•	•
-	T236139031	Earth signal return lead, 2m (6.5')	•		
	T236139032	Earth signal return lead, 10m (32')	•		
	T99916954	Earth signal return lead, 4m (13')		•	
	T99916996	Earth signal return lead, 10m (32')		•	
	T28022750	10m (32') earth lead, clip / Elcometer 280 connector			•
	T28022622	Trailing signal return lead, 5m (16')			•
Telescopic Pro	bes, Probe	Extension Rods			
-	T23622790-1	Telescopic probe handle, 0.6 - 1.20m (24 - 47")	0		
	T23622790-2	Telescopic probe handle, 1.8 - 3.60m (71 - 142")	0		
	T99919988-3	Probe extension piece, 250mm (9.8")	0	•	•
	T99919988-1	Probe extension piece, 500mm (20")	0	•	•
1//	T99919988-2	Probe extension piece, 1000mm (39")	0	•	•
Accessory Ad	aptors, allow	ving other manufacturer's accessories to fit Elcometer ma	odels		
-	T99920084	Adaptor for models: AP, APS, AP/S1, AP/S2, AP/W, 10/20, 14/20,10, 20 & 20S	0	•	•
1	T99920083	Adaptor for models: P20, P40, P60, 780, 785 & 790	0	•	•
10 M	T99920252	Adaptor for models: PHD 1-20 & PHD 2-40	0	•	•
	T99922747	Adaptor for models: 4S, 4.0, 8.0, 35	0	•	•
_	T99920082	Adaptor for current range to fit old accessories	•	•	•
	T99922768	Adaptor for Elcometer 136 and older 236 models	•		

	Part Number	Description			(Compatible wit	h
	Part Number	Description			Elcometer 236	Elcometer 266	Elcometer 280
Wire Brush F	Probes, band bru	ush, flat brush, internal and external pipe	brush pro	bes			
	T99919975	Band brush probe			0	•	•
A STATE OF THE PARTY OF THE PAR	T99922751	Phosphor bronze brush probe			0	•	•
The state of the s							
A STATE OF THE PARTY OF THE PAR	T00000000 4	Dialet careladorias harrela carela	Wid			_	_
	T99920022-1	Right angled wire brush probe	0.25m	9.8"	0	•	•
	T99920022-2	Right angled wire brush probe	0.50m	19.7"	0	•	•
	T99920022-3	Right angled wire brush probe	1.00m	39"	0	•	•
	T99926621	Spare wire brush electrode	0.25m	9.8"	•	•	•
	T99926622	Spare wire brush electrode	0.50m	19.7"	•	•	•
	T99926623	Spare wire brush electrode	1.00m	39"	•	•	•
			Diam	eter			
	T99920071-1	Internal circular wire pipe brush probe	38mm	1.5"	0	•	•
	T99920071-2	Internal circular wire pipe brush probe	51mm	2.0"	0	•	•
	T99920071-3	Internal circular wire pipe brush probe	64mm	2.5"	0	•	•
	T99920071-4	Internal circular wire pipe brush probe	76mm	3.0"	0	•	•
	T99920071-5	Internal circular wire pipe brush probe	89mm	3.5"	0	•	•
	T99920071-6	Internal circular wire pipe brush probe	102mm	4.0"	0	•	•
	T99920071-7	Internal circular wire pipe brush probe	114mm	4.5"	0	•	•
	T99920071-8	Internal circular wire pipe brush probe	127mm	5.0"	0	•	•
	T99920071-9	Internal circular wire pipe brush probe	152mm	6.0"	0	•	•
	T99920071-10	Internal circular wire pipe brush probe	203mm	8.0"	0	•	•
	T99920071-11	Internal circular wire pipe brush probe	254mm	10"	0	•	•
	T99920071-12	Internal circular wire pipe brush probe	305mm	12"	0	•	•
	T9993766-	Spare circular wire brush electrode	38mm	1.5"	•	•	•
	T9993767-	Spare circular wire brush electrode	51mm	2.0"	•	•	•
	T9993768-	Spare circular wire brush electrode	64mm	2.5"	•	•	•
	T9993769-	Spare circular wire brush electrode	76mm	3.0"	•	•	•
	T9993770-	Spare circular wire brush electrode	89mm	3.5"	•	•	•
	T9993771-	Spare circular wire brush electrode	102mm	4.0"	•	•	•
	T9993772-	Spare circular wire brush electrode	114mm	4.5"	•	•	•
	T9993773-	Spare circular wire brush electrode	127mm	5.0"	•	•	•
	T9993774-	Spare circular wire brush electrode	152mm	6.0"	•	•	•
	T9993775-	Spare circular wire brush electrode	203mm	8.0"	•	•	•
	T9993776-	Spare circular wire brush electrode	254mm	10"	•	•	•
	T9993777-	Spare circular wire brush electrode	305mm	12"	•	•	•



'C-type' wire brush holder[†] (order C-type brush from the list below)

Part Number	Description	(Compatible wit	n
Fait Number	Description	Elcometer 236	Elcometer 266	Elcometer 280

Wire Brush Probes, band brush, flat brush, internal and external pipe brush probes

T99922745-10 External 'C-type' wire brush



T99922752

T99922907	'C-type' wire brush support handle			0	•	•
		Outside Diame DN	eter (OD) NPS			
T99922745-1	External 'C-type' wire brush	150 - 250mm	6 - 9"	•	•	•
T99922745-2	External 'C-type' wire brush	250 - 350mm	9 - 12"	•	•	•
T99922745-3	External 'C-type' wire brush	350 - 450mm	12 - 16"	•	•	•
T99922745-4	External 'C-type' wire brush	450 - 550mm	16 - 20"	•	•	•
T99922745-5	External 'C-type' wire brush	550 - 650mm	20 - 24"	•	•	•
T99922745-6	External 'C-type' wire brush	650 - 750mm	24 - 28"	•	•	•
T99922745-7	External 'C-type' wire brush	750 - 850mm	28 - 32"	•	•	•
T99922745-8	External 'C-type' wire brush	850 - 950mm	32 - 36"	•	•	•
T99922745-9	External 'C-type' wire brush	950 - 1050mm	36 - 40"	•	•	•

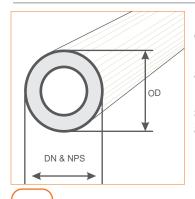
1050 - 1150mm 40 - 44"

Conductive Rubber Probes



T99920022-11 Right angled rubber probe 250mm 9.8" • • T99920022-12 Right angled rubber probe 500mm 19.7" • • T99920022-13 Right angled rubber probe 1000mm 39" • • T99920022-14 Right angled rubber probe 1400mm 55" • • T99926731 Spare rubber electrode 250mm 9.8" • • T99926732 Spare rubber electrode 500mm 19.7" • • T99926733 Spare rubber electrode 1000mm 39" • • T99926734 Spare rubber electrode 1400mm 55" • •			Width	1			
T99920022-13 Right angled rubber probe 1000mm 39" • • T99920022-14 Right angled rubber probe 1400mm 55" • • T99926731 Spare rubber electrode 250mm 9.8" • • T99926732 Spare rubber electrode 500mm 19.7" • • T99926733 Spare rubber electrode 1000mm 39" • •	T99920022-11	Right angled rubber probe	250mm	9.8"	0	•	•
T99920022-14 Right angled rubber probe 1400mm 55" • • T99926731 Spare rubber electrode 250mm 9.8" • • T99926732 Spare rubber electrode 500mm 19.7" • • T99926733 Spare rubber electrode 1000mm 39" • •	T99920022-12	Right angled rubber probe	500mm	19.7"	0	•	•
T99926731 Spare rubber electrode 250mm 9.8" • • T99926732 Spare rubber electrode 500mm 19.7" • • T99926733 Spare rubber electrode 1000mm 39" • •	T99920022-13	Right angled rubber probe	1000mm	39"	0	•	•
T99926732 Spare rubber electrode 500mm 19.7" • • T99926733 Spare rubber electrode 1000mm 39" • •	T99920022-14	Right angled rubber probe	1400mm	55"	0	•	•
T99926733 Spare rubber electrode 1000mm 39" • •	T99926731	Spare rubber electrode	250mm	9.8"	•	•	•
	T99926732	Spare rubber electrode	500mm	19.7"	•	•	•
T99926734 Spare rubber electrode 1400mm 55" • • •	T99926733	Spare rubber electrode	1000mm	39"	•	•	•
	T99926734	Spare rubber electrode	1400mm	55"	•	•	•

Rolling Springs, available in phosphor bronze or stainless steel



Each spring is supplied with an easy-release coupling piece, allowing users to quickly connect and disconnect the rolling spring at stanchions, pillars, etc.

Please note that rolling springs are not supplied with a spring holder. Please order the appropriate rolling spring holder separately.

Rolling springs are available in 2 versions, phosphor bronze round spring and 304 stainless steel box section spring. The 19mm (0.75") diameter phosphor bronze springs are almost 3 times lighter than the 34mm (1.33") diameter stainless steel springs.

Older Elcometer 236 models may require adaptor piece T99922768

[†]Wire brush holder supplied separately (T99922752)



Part Number	Description		Compatible with				
			Elcometer 236	Elcometer 266	Elcometer 280		
Rolling Spring	gs, available in pho	sphor bronze or stainless steel, rolling spring holders o	are supplied sep	arately			
	T99920086	Phosphor bronze rolling spring holder	0	•	•		

199920000	Order the relevant phosphor bronze spring(s) from the list below	0	•	•
T99922746	Stainless steel rolling spring holder Order the relevant stainless spring(s) from the list below	0	•	•

Rolling Spring Description / Dimensions

		Nominal Pipe Size		Pipe Outside Diameter (OD)				
		DN	NPS	millimeters (mm)		inches (")		
Phosphor Bronze	Stainless Steel	(mm)	(inches)	min OD	max OD	min OD	max OD	
T99920438-15A	-	40	1.5	48	54	1.9	2.1	
T99920438-15B	-	40		54	60	2.1	2.4	
T99920438-20A	-	50	2.0	60	66	2.4	2.6	
T99920438-20B	-	50		66	73	2.6	2.9	
T99920438-25A	T99922744-25A	65	2.5	73	80	2.9	3.1	
T99920438-25B	T99922744-25B	03		80	88	3.1	3.5	
T99920438-30A	T99922744-30A	80	3.0	88	95	3.5	3.7	
T99920438-30B	T99922744-30B	80	3.0	95	100	3.7	3.9	
T99920438-35A	T99922744-35A	90	3.5	100	108	3.9	4.3	
T99920438-35B	T99922744-35B	90		108	114	4.3	4.5	
T99920438-40A	T99922744-40A	100	4.0	114	125	4.5	4.9	
T99920438-45A	T99922744-45A	114	4.5	125	136	4.9	5.4	
T99920438-45B	T99922744-45B			136	141	5.4	5.6	
T99920438-50A	T99922744-50A	125	5.0	141	155	5.6	6.1	
T99920438-50B	T99922744-50B	125		155	168	6.1	6.6	
T99920438-60A	T99922744-60A	152	6.0	168	180	6.6	7.1	
T99920438-60B	T99922744-60B	132		180	193	7.1	7.6	
T99920438-70A	T99922744-70A	178	7.0	193	213	7.6	8.4	
T99920438-70B	T99922744-70B			213	219	8.4	8.6	
T99920438-80A	T99922744-80A	203	8.0	219	240	8.6	9.4	
T99920438-90A	T99922744-90A	229	9.0	240	264	9.4	10.4	
T99920438-100A	T99922744-100A	254	10.0	264	290	10.4	11.4	
T99920438-110A	T99922744-110A	279	11.0	290	320	11.4	12.6	
T99920438-120A	T99922744-120A	305	12.0	320	350	12.6	13.8	
T99920438-140A	T99922744-140A	356	14.0	350	375	13.8	14.8	
T99920438-140B	T99922744-140B	330	14.0	375	400	14.8	15.7	

[○] Older Elcometer 236 models may require adaptor piece T99922768



Rolling Springs, available in phosphor bronze or stainless steel, rolling spring holders are supplied separately





Rolling Spring Description / Dimensions

		Nominal Pipe Size		Pipe Outside Diameter (OD)				
		DN	NPS	millimete	ers (mm)	inch	es (")	
Phosphor Bronze	Stainless Steel	(mm)	(inches)	min OD	max OD	min OD	max OD	
T99920438-160A	T99922744-160A	406	16.0	400	435	15.7	17.1	
T99920438-160B	T99922744-160B	400	10.0	435	450	17.1	17.7	
T99920438-180A	T99922744-180A	457	18.0	450	500	17.7	19.7	
T99920438-200A	T99922744-200A	508	20.0	500	550	19.7	21.7	
T99920438-220A	T99922744-220A	559	22.0	550	600	21.7	23.6	
T99920438-240A	T99922744-240A	610	24.0	600	650	23.6	25.6	
T99920438-260A	T99922744-260A	660	26.0	650	700	25.6	27.6	
T99920438-280A	T99922744-280A	711	28.0	700	750	27.6	29.5	
T99920438-300A	T99922744-300A	762	30.0	750	810	29.5	31.9	
T99920438-320A	T99922744-320A	813	32.0	810	860	31.9	33.9	
T99920438-340A	T99922744-340A	864	34.0	860	910	33.9	35.8	
T99920438-360A	T99922744-360A	914	36.0	910	960	35.8	37.8	
T99920438-380A	T99922744-380A	965	38.0	960	1010	37.8	39.8	
T99920438-400A	T99922744-400A	1016	40.0	1010	1060	39.8	41.7	
T99920438-420A	T99922744-420A	1067	42.0	1060	1110	41.7	43.7	
T99920438-440A	T99922744-440A	1118	44.0	1110	1160	43.7	45.7	
T99920438-460A	T99922744-460A	1168	46.0	1160	1210	45.7	47.6	
T99920438-480A	T99922744-480A	1219	48.0	1210	1270	47.6	50.0	
T99920438-500A	T99922744-500A	1270	50.0	1270	1320	50.0	52.0	
T99920438-520A	T99922744-520A	1321	52.0	1320	1370	52.0	53.9	
T99920438-540A	T99922744-540A	1372	54.0	1370	1425	53.9	56.1	

Other sizes are available upon request. Please contact your nearest distributor for more information.

Grounding mats



Grounding mats are ideal for testing on un-grounded pipes. The conductive rubber mat is wrapped around the coated pipe and connected to both the grounding pin (supplied separately) and the signal return lead.

	Outside Diam	neter (OD)	Compatible with			
	DN	NPS	Elcometer 236	Elcometer 266	Elcometer 280	
T28022637-1 Grounding Mat	up to 229mm	up to 9"			•	
T28022637-2 Grounding Mat	up to 457mm	up to 18"			•	
T28022637-3 Grounding Mat	up to 762mm	up to 30"			•	
T28022637-4 Grounding Mat	up to 1067mm	up to 42"			•	
T28022748 Grounding pin; 60cm (23.5") long					•	
T28022749 10m (32') earth lead, clips each end					•	
T28022750 10m (32') earth lead, clip / Elcometer 280 cc	onnector				•	

Why choose Elcometer?

For more than sixty years Elcometer has been a world leader in the design, manufacture and supply of inspection equipment to the coatings industry.

Ever since the first Elcometer gauge was manufactured in 1947, our philosophy has been to provide 'best in class' design, quality and service at a competitive price. By concentrating on these core values, Elcometer has grown into a global network with representation in over 70 countries.

With a range of products specifically developed to meet the needs of the coatings industry, Elcometer is well positioned to provide you with the solution to your inspection requirements - whatever and wherever they might be.

Fit for Purpose - Standards Explained

All Elcometer products are designed to comply with National and International Standards. We have a team of experts working with Standards bodies around the world, ensuring we have products fit for purpose, exceeding the demands of our customers.

In this catalogue, we have identified the latest National and International Standards - those in Orange are current and those in Grey have been superseded but are still recognised in some industries.

We continuously review our products against current and new Standards and for the most up to date list, visit our online catalogue which provides the latest information on all new, current and superseded Standards which our products can be used in accordance with.

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Elcometer has over 150 Distributors around the world, all comprehensively trained in our products, providing a full after sales service and support within your region. With the widest range of own manufactured products, Elcometer can provide a complete solution to all your inspection requirements.

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