EQUIPMENT EQUIPMENT

1963/64 Edition



THE GOUNGIL OF BRITISH MANUFACTURERS OF PETROLEUM EQUIPMENT



BRITISH PETROLEUM EQUIPMENT

1963/64 Edition

£2-10-0

Published by

THE COUNCIL OF BRITISH MANUFACTURERS OF PETROLEUM EQUIPMENT

118 SOUTHWARK STREET, LONDON S.E.1 V

WATerion 149

COMPILED BY

C. H. W. ROLES AND ASSOCIATES LIMITED, 68/70 GOSWELL ROAD, LONDON, E.C.1,

AND

PRINTED IN GREAT BRITAIN BY
KNIGHT & FORSTER, LTD.,
WATER LANE WORKS,
LEEDS 11.

THE COUNCIL OF BRITISH MANUFACTURERS OF PETROLEUM EQUIPMENT

(A Company limited by Guarantee and not having a share Capital)

WHAT IT IS

The C.B.M.P.E. exists to promote and develop the United Kingdom petroleum equipment industry, whose products are in use throughout the world. Through its Members — some 500 today — and its permanent staff, the Council has helped to establish numerous standards for petroleum equipment, compile statistics and mailing lists, organise works and site visits, sponsor Exhibitions. All these activities are aimed at the improvement of the products and services offered to the petroleum and petro-chemical industry.

HOW IT CAN HELP YOU

As a *User* in search of equipment, you will find that the Catalogue "BRITISH PETROLEUM EQUIPMENT 1963/64" or "Classified List of British Equipment and Services" are invaluable as works of reference.

As a *Manufacturer*, membership of C.B.M.P.E. entitles you to receive up-to-the-minute technical and commercial bulletins; to advertise in "British Petroleum Equipment News" (quarterly) and in the composite catalogue "British Petroleum Equipment" (alternate years); also to take advantage of many opportunities of meeting government officials, users of equipment in the oil industry and competitors.

As a Contractor, the catalogue "British Petroleum Equipment" offers a complete cross-section of the British Engineering Industry.

As an Engineer, a note from you to the Council will produce information on the latest advertised products or techniques.

As a *Financial Comptroller*, requiring finance for a project, you should make contact with British Oil Equipment Credits Ltd., a wholly-owned subsidiary company, which is in existence to promote schemes to finance the sale on deferred terms to overseas purchasers of capital plant and equipment.

The Council Secretariat will be glad to give more detailed information and application forms on request

THE COUNCIL OF BRITISH MANUFACTURERS OF PETROLEUM EQUIPMENT

*OFFICERS AND EXECUTIVE COMMITTEE

Chairman of the Council:

MR. G. L. HANCOCK

David Brown Industries, Ltd.

Immediate Past Chairman: and Chairman British Oil Equipment Credits, Ltd. Mr. J. M. Storey, C.B.E. (Honorary Member)

> Hon. Treasurer: Mr. N. H. BIRDSEYE (Honorary Member)

Members of the Executive Committee:

Mr. N. R. Balfour
Oil Well Supply Company, Ltd.

Mr. D. C. Dally
The Pyrene Company, Ltd.

Mr. J. L. Galloway

Cape Insulation and Asbestos Products, Ltd.

Mr. GORDON GOODRICH Stewarts and Lloyds, Ltd.

MR. R. P. KEY
Ashmore, Benson, Pease & Company, Ltd.

Mr. F. R. Newman Newman, Hender & Company, Ltd.

MR. W. H. G. ROACH, M.B.E. William Press & Son, Ltd.

Mr. L. H. Short, C.B.E.

The English Electric Company, Ltd.

Mr. R. H. STURGES, O.B.E. Head, Wrightson & Company, Ltd.

MR. J. NEILL THOMPSON, M.B.E. Tube Investments, Ltd.

MR. HECTOR D. WALKER A.C.E.-Hartons, Ltd.

Director:
Mr. R. A. PITTMAN, B.Com., F.C.I.S.

Technical Director:
MR. E. JARMAN, M.I.Mech.E., F.Inst.Pet.

Secretary to the Council: Miss D. B. Jaques

Editor: Mr. C. H. W. Roles, M.Inst.Pet.

^{*} As at date of publication.

LIST OF CONTENTS

			PAGE
Work of the Council of British Manufacturers of Equipment			V
Officers and Executive Committee		•••	vii
Index to Classified List of British Equipment and Servi	ices		2 — 10
Classified List of British Equipment and Services			13 — 86
List of Members		•••	89 — 116
Index to Members' Catalogue Announcements			117 — 120
Members' Catalogue Announcements			122 — 695

INDEX TO CLASSIFIED LIST OF BRITISH EQUIPMENT AND SERVICES

FOR TRADE NAMES AND SPECIALITIES SEE ALPHABETICAL LIST — PAGES 76–86

INDEX TO CLASSIFIED LIST OF BRITISH EQUIPMENT AND SERVICES

PRODUCT	PRODUCT	PRODUCT
A Page	Page	Page
"A" Frames and Masts for Erection 27	Architectural Metal-work 62	Boilers, Cast Iron, Central Heating 21
Absorbers and Strippers (Gas) 52	Aridifiers (Water Separators) 52	Boilers, Drilling 21
Accumulators, Hydraulic 40	Articulated and Special Vehicles 75	Boilers, Portable and Vertical 21
Accumulators, Steam Storage 18	Asbestos Goods 18	Boilers, Steam 21
Acetylene Compression Equipment 34	Asbestos Protective Equipment 33	Bolts, Engineers 21
Acid-Proof Materials, Cement, etc 52	Asbestos Packed Cocks 24	Bolts, Non-Ferrous 21
Acid-Resisting Coatings, Paint and	Ash Hoists 18	Bolts, Stainless Steel 21
Enamel 47	Assemblies, Christmas Tree 76	Bombs, Gum Stability 42 Bombs, Test 45
Acid-Resisting Valves 70	Assemblies, Tubular, in Stainless Steel 59	
Acid Storage and non-Metallic Tanks 64	Attachments, Rat-hole Drilling 55	Bonderizing for Ferrous Metals 27
Acid Washers 52 Actuators for Valves 70	Autoclaves 52	Boots and Shoes, Safety and Indus-
Adaptors, Flanges, Well-Head 76	Automatic Control Instruments, Boiler 18	trial 34
Adaptors, Swivel 55	Automatic Telephone Exchange 52	Borehole Pumps 50 Boring Drills, Earth 55
Advisory Services 15	Axles, Rolling Stock 46	Boring Drills, Earth 55 Boxes, Cable 29
Aeration Plant 52		Braces, Ratchet 66
Aftercoolers 27		Brake and Clutch Linings 32
Agitators 52	В	Brake, Hydromatic 56
Air, Compressed Valves 70		Brake Magnets 29
Air Conditioning 13	Backing Rings and Strip 66	Branch Connections, Materials 70
Aircraft Fuel, Bulk Storage, Auto-	Bailers, Production 49	Brass Castings 23
matic Cut-off 18	Ball Floats 41	Breakers, Electric Circuit 29
Air or Water Driven Hydraulic Test	Ball Valves 70	Bricks and Cement, Insulating 44
Pumps 50	Balls, Catalyst Support 53	Bricks, Fire and Fireclay 19
Air Hoists, Winch and Cylinder 39	Bar Stock Valves 70	Bridges and Gangways 62
Air Leak Detectors 46	Barges — See Floating Craft and	Bronze Castings 23
Air Lift Pumps 50	Barges 34	B.Th.U. Meters 41
Air Preheaters 18 Aircraft Fuelling Tanks 64	Barrows, Steel 21	Bubble Trays, Caps and Fittings 53
Aircraft Transport and Survey 18	Bars, Bright Drawn Steel 61 Batteries, Electric 29	Buckets (Skips) 25, 32
Airport Refuelling and Servicing		Buckets, Drag Scraper 29
Equipment 15	Battery Chargers, Rotary 29 Battery Charging Rectifiers 31	Buildings, Steel Framed 62
Airport Refuelling Equipment, In-	Pouvite Filters 31	Building Work 21
stallation 18	Bauxite Filters 33 Beaders, Tube 66	Bulldozers 29
Alarms, Fire 33	Bearing Metal (Anti-Friction) 32	Bulk Products Blending 41
Alarms, Low Water 20	Belting, all Classes 18	Bulk Storage, Airport, Automatic
Alkali Resisting Coatings, Paint and	Belts for Conveyors 26	Cut-off 18
Enamel 47	Belts, V 18,48	Bull Plugs, Forged Steel 67 Bumpers, Crown Block 56
Alloy Steel Castings 22 Alternators, Electric 29	Benders, Pipe 67	Bumpers, Crown Block 56 Bunkers and Vessels, Steel 64
Aluminium Advisory Services 15	Benders, Pipe, Screw and Hydraulic 55	Bunsen Burners 45
Aluminium Alloys, Castings 22	Bends, Return — see Headers 23,54	Buoys, Mooring 22
Aluminium Alloys, non-ferrous Forg-	Bevel Reducing Gear Units 36	Burners, Acid Sludge 22
ings 34	Bits 55	Burners 22
Aluminium Brass Tubes 69	Bituminous and Petroleum Com-	Bursting Discs (under Shear Relief) 74
Aluminium Bronze Castings 22	pounds and Emulsions 47	Bushings, Drill Stem 56
Aluminium Bronze Products 47	Blankets, Floating for Tanks 65	Butt-Welding Steel and Non-Ferrous
Aluminium Paste Pigment 47	Blending Petroleum Products 41	Fittings, Seamless 76
Aluminium Sheets, Sections, Wire and	Blending Valves 73	Butt-Welding Steel Pipe Fittings 67
Plates 47	Blocks, Chain 28	Butterfly Valves 71
Aluminium Structures 62	Blocks, Crown 55	
Aluminium Tanks 64	Blocks, Purchase and Snatch 76	
Ammonia Fittings 66	Blocks, Travelling 55	
Ammonia Gauges 35	Blocks, Tubing, Production 50	
Ammonia Valves 70 Amplifiers, Magnetic 30	Blowers, Air 24	C
Analytical Instruments	Boards, Derrick, Rod and Tubing 56 Body-building and Modifying, Com-	Cables and Accessories 22, 29
Anchore Hold Foot and Assess	mercial Motors 75	Cable Plates 29
Anahana Wina Tina	Boiler Accessories and Fittings 18	Cable Reels 36
A1 - X7 -1	Boiler Baffles 19	Cable Testing Equipment 29
Anodes, Aluminium Alloy 24	Boiler Drums, Class I Welded 21	Cable Trays 29
Anodes, Graphite, Magnesium and	Boiler Drums, Hollow Forged for	Cableslides, Safety 57
Zinc 24	W.T. Boilers 21	Cableways, Aerial 22
Anti-Friction Bearing Metals (White	Boiler Feed Pumps 19,50	Calcium Silicate, Thermal 44
Metals) 32	Boiler Meters 20	Camps, Mobile — See Vehicles, page
Anti-Vibration Mountings 36	Boiler Tubes, Non-Ferrous, Steel 21	75

PRODUCT		PRODUCT	PRODUCT
	Page	Page	Page
Can and Drum Making Machinery		Civil Engineering Appliances 55	Controllers, Feed Water 44
Cans and Containers	22	Civil Engineering, Mechanical Engin-	Controls, Hydraulic 40
Canteen Equipment	13	eering, Building, R.C. Work 13, 24	Converters, Digital to Analogue 41
Capacitors (see Condensers)	25	Clamps, Casing 56, 76 Clamps, Pipe 67	Converters, Motor 30
Capillary Fittings	67	Clamps, Pipe 67 Clamps, Polished Rod 49	Conveyors and Transporters 26
Capstans Carbides, "Super Hard" Metal	39	Clamps, Safety (Drill Stem) 56	Conveyors, Elevators and Mechanical Handling, Installation 16
Carbon Black	13	Clarifiers and Filters, Magnetic 33	Cooking Apparatus 27
Carbon Products	22	Closures for Cans and Drums 24	Coolers, After 27
Carbon Valves		Cloth, Woven Wire 24	Coolers, Air Blast 32
Cargo Pumps, Oil		Clothing, Protective 50	Coolers, Floating and Fixed Head
Casing and Tubing Heads	56	Clutch Linings 32	Types, Assemblies and Components 37
Casing Protectors	57	Clutches 32, 48 Coal and Ash Handling Plants 19	Coolers (Gas) 53
Casing Shoes	57	Coal Tar Distillation 13, 16	Coolers, Jacket Water 32
Casing, Well, API Standard		Coatings, Bituminous 27	Coolers, Oil 32
Cast Iron Pipe Specials	0/	Coatings, Pipe Line 16, 48	Coolers, Water Industrial 27 Copper Nickel Products 47
Castings Castings, Non-Ferrous	47	Coatings, Pipe Line 16, 48 CO ₁ Recorders 19, 43	Copper Nickel Froducts 4/ Coppersmithing Work 16
Castings, Lost Wax	23	Cocks 24	Cordage 55
Castings, Pressure Vessels, N.F.	49	Coils, Steaming 64	Core Drills and Heads 28
Castings, Steel		Coke Removal Gear 53	Core Trays 56
Catalysts		Collars, Cement Baffle 56 Collars, Cementing Whirler 56	Coring Reels 57
Catalyst Recovery Equipment	53	Collars, Drill 56	Cork Gaskets 35
Catalyst Regenerators	53	Collars, Float Cement 56	Corkboards 44
Catalytic Cracking Plant	13	Collectors, Dust, Multi-Cyclone 33	Corrosion-Prevention Measures and
Catalytic Reactors Cathodic Protection	53	Columns, Refinery 54	Cathodic Protection 27
Cathodic Protection, Test Sets	44	Combustible Gas Indicator 41	Corrosion Resistant Valves 74
Caustic Soda Manufacture/Reco		Combustion Instrumentation 41	Corrosion-Resistant Metal Alloys 27 Corrosion Resisting Pumps 50
Causticizers		Communications, Radio and Line 52	Corrosion Resisting Steel 61
Cellulose, Spraying		Complete Plants 13	Corrugated Tubes, Boiler 21
Cement Heads	56	Completion Equipment, Well 49	Cotter Pins 31
Cement, Insulating		Composition, Petrol Resisting Jointing 45	Counters 41
Cementing Outfits		Compressed Air Motors 49 Compressed Air Systems, Installation	Couplers, Automatic 46
	28,56	and Instrumentation 16, 41	Couplings, Air Hose 40
Centralizers, Sucker Rod		Compressed Air Winches 28	Couplings, Flanged Spigot 40
Centrifugal and Sand Castings Centrifugal Pumps	22	Compression Fittings for Pipes and	Couplings, Flexible, Power Drive 36
Centrifuges		Tubes 67	Couplings, Flexible 36
Chains		Compressor Protection Devices 25	Couplings, Fluid 48 Couplings, Magnetic 29
Chains and Wheels, Conveyor		Compressors, Air, Fans and Blowers 24 Compressors, Air and Gas 25	Couplings, Nozzles and Fittings, for
Chains and Wheels, Transmission		Computors, Digital and Analogue;	Fire Hose 33
Channels, Acid proof		Computing Service 41	Couplings, Pipe 67
Chasers, Stocks and Dies	66	Concrete, Lightweight 24	Couplings, Quick Acting Hose 28, 40
Chassis, Airport Refuelling and F	ire- 18	Concrete Mixers and Handling Equip-	Couplings, Rotary Hose and Swivel 40
Chassis, Lorry, Firecrash, etc.	75	ment 25	Couplings, Shaft 48
Check, Valves		Concrete, prefabricated products,	Couplings, Steam Hose 40
Check Valves, Petrol Dispensing	g	structures, erection 25	Couplings, Swivel 67 Covering, Pipe, Sectional 45
Pump	52	Concrete, Reinforced, Construction 25 Condensate Return 50	Covering, Pipe, Sectional 45 Cracking, Catalytic 13
Chemical Engineering	13, 24	Condensate Return 50 Condensers Accessories and Com-	Cracking, Thermal, Chambers 14
Chemical Equipment	53	ponents 25	Crane Electric Equipment 29
Chemical Injection Pumps Chemical Plant Installation	50	Condensers for Power Factor Im-	Cranes, Hydraulic 28
Chemical Refining of Oil	13	provement 29	Cranes, Lifting Equipment and
Chemical Refining Treatments	19	Conditioner, Mud 56	Tackle, all Types 27
Chemicals	53	Conductivity Instruments 41	Crane-Skips 25, 29
Chemicals, Clay	53	Conduit and Fittings 29	Creep-Resisting Steel 61
Chemicals, Drilling Mud	56	Connectors 56	Cross Valves 71
Chimneys Steel	19	Consistency Controllers 41 Contactors, Rotary Disc 53	Crosses, Well-Head 76
Chisels Chlorine Gas Manufacture	66	Containers, Insulated 22	Crown Blocks 55 Crude Oil Stabilization 13
Chokes, Well-Head	53	Control-Gear for Motors 29	Crude Oil Stabilization 13 Cups, Fabric (Production) 49
Christmas Tree Valves	76	Control Gear for Valves 71	Culverts, Corrugated Steel 62
Chromatography, Gas	41	Control Instruments, Automatic 41	Cutters, Boring 66
Chucks, Twist-Drill	66	Control Panels 29	Cutters, Pipe, Sheets, and Bolts 66
Cinematographic Equipment	29	Control Valves, Pneumatic 48	Cutting Equipment, Oxy-acetylene/
Circulating Heads	56	Controlled Ball Steam Valves 59	Hydrogen/Propane/Electric 70

PRODUCT	Product	PRODUCT
Page	Page	Page
Cutting Machines, Pipe 66	Drill, Diamond Prospector 28	Emergency Valves, Truck Tank 74
Cycle Controllers 41	Drill Steel 61	Emulsions, Petroleum and Bituminous 47
Cyclones, Dust Extractors 53	Drilling Appliances and Tools (Wells) 28	Enamels, Pipeline 27
Cylinders for Gas, Propane and	Drilling Bits 55	Engine Fittings and Accessories 32
Butane Storage 46	Drilling and Boring Machines 66	Engine Packings and Jointings,
	Drilling Equipment, Rotary 14, 55	Asbestos 18
	Drilling Mud, Chemicals 56	Engines, Internal Combustion 49
	Drilling Rigs, Standard Cable 14	Engines, Steam Reciprocating 49
	Drilling Valve Bodies and Parts 23	Excavators 28, 29
D	Drilling Valves, Cast Steel 71	Exhausters 24
	Drilling Valves, Forged Steel 72	Exhaust Heads, Steam 59
Data Handling Systems 41	Drills, Electric 29	Expanded Aluminium, Copper and Brass 47
Dampeners, Pulsation 24	Drills, Engineers' 66	
De-aerators 19, 27	Drills, Mobile Rotary 28	
Deep Well Pumps 49	Drills, Power-arm Rotary 28	
Dehydration 13	Drills, Rotary Air 48	Expansion Joints, Copper 55 Experimental Engineering 32
Demisters, Mist Eliminators 53	Drills and Taps 66	Explosimeter (see Combustible Gas
Density Controllers 41	Drive, Independent Pump 56	Indicator) 41
Dephlegmators 53	Drives, Rig, Steam, Diesel and	Extinguishers, Fire, Portable 34
Depth Indicators 41	Electric 56	Extractors, Feed Water Grease 19
Derricks, Drilling and Production 56	Drop Stampings 60	Extractors, Stud 66
Derricks, Scotch 28	Drop-Forged Steel Valves 72	Extrusions, Aluminium/Magnesium
De-Salting Plant 53	Drum Paint 48	Alloys and Bronze 33
Descaling Service 16	Drums and Kegs 22	Extrusions, Steel 32, 60
Desks, Control 41	Drums, Boiler 21	
Desulphurization, Catalytic 13	Drums, Closures and Taps 22	
De-Superheat Controllers 41	Dryers, Adsorptive 28	
Detectors, Automatic Fire 34	Dryers, Rotary 29 Dual-Fuel I.C. Engines 49	
Detectors, Crankcase Oil Mist 32		F
Detectors, Pipeline Pig 43.67		F
De-watering Equipment 53	Ducts and Trunks, Air 60,75	Fabricated Pipework 67
De-waxing Filter Equipment 53	Duplex Tubes (Bi-Metallic) 26 Dust Extraction Equipment 16	Fabrications, Welded Plate, Steel 60
Dew Point Controller 41	Dust Extraction Equipment 16 Dust-Tight Electrical Equipment 32	Fans 24
Diamond Core Drill, Skid-Mounted 28		Fastenings, Bolts, Screws 21
Diamond Coreheads 28	Dynamometers, Electrical 29, 42	Feed Pumps, Boiler 19
Diamond Setting in Drilling Heads 28		Feed Water Grease Extractors 19
Diaphragm Motor-operated Valves 71		Feed Water Heaters 19
Diaphragm Pumps 51		Feed Water Regulators 19
Dip Hatch, Tank 65	E	Feed Water Test Instruments 19
Discs, Solid Steel 46	F 4 F 11	Feed Water Treatment (Electric) 19
Dished and Flanged Ends 19	Earth Drills 55	Fencing and Gates 62
Dispensing Equipment for Oil Pro-	Earth Moving Equipment 29	Fendering for Docks and Ships 33
ducts: Hydrants 28	Earth Resistance Testers 29	Fenders, Rubber 57
Distillate Treating Units 53 Distillation and Cracking Plant 54	Ebonite and E-lined Pumps 51	Ferrules 26
D: 01 10 1:	Economizers and Accessories 29	Files, Hacksaw Blades and Chisels 66
Distribution, Oil and Cracking 14 Distribution Fixtures, Electric 29	Effluent Purification Systems 54 Ejectors 29	Filling Machines for Cans, Drums,
Distribution of Petroleum Products		Barrels, etc 33
(Vehicles) 75	Ejectors, Sewage 51 Ejectors, Sea water driven for Tanks 29	Filters 33
Ditches, Mud 62	Ejectors, Steam Driven for Tankers 29	Filters, Rotary Vacuum 33
Diving Apparatus 28,70	Elbows, Welding, Forged Alloy Steel 67	Finger Boards for Drilling Derricks 56, 62
Docks (Servo) and Grills for Vehicle	Electric Apparatus 29	Finishes, Paint 48
Washing Bays 75		Fintube and Extended Surface Tubes
Domestic Appliances (Electric) 29	Electric Gear, Cables and Wires 29, 32 Electric Generating Plants, Installation 16	Products 68
Domestic Equipment, Installation 16		Fire Alarms 33
Doors, Fire Resisting 34	Electric Power Distribution Systems 16 Electric Power Generating Plant 16	Firecrash Tender, Airfield 18
Doors, Sliding and Gear 62	Electrical Equipment, Apparatus and	Fire Fighting Service 75
Dovetail Sheets 62	Accessories, Distribution 29	Fire Fighting and Protective Appliances, all Classes 33, 40
Dowel Pins 32	Electrical Gear for Oilwell Pumping	ances, all Classes 33, 40 Fire Protection Systems (Chemical
Drag Type Bits 55	and Drilling 56	and Gas) 13
Drainage, Water 14	Electrical Instruments 42	Fire Pumps 51
Drains, Cast Iron, Floor 62	Electrodes 75	Fishing Tools 28
Draught Gauges 42	Electronic Control 42	Fishing Tools, Production 49
Draught, Mechanical Forced, In-	Electronic Valves 29	Fittings, Compression, for Tubing,
duced or Balanced 20	Elevators and Stackers 32	Plastic, and Plastic covered Pipes 48
Draw-works, Rotary 56	Elevators, Automatic Grip 56	Fittings, Laboratory 45
Dredging Pumps 51 Drift-Mandrels 56	Elevators, Production, Tubing and	Fittings for Petroleum Road and
Drift-Mandrels 56	Sucker Rod 50	Rail Tankers 28

PRODUCT	PRODUCT	PRODUCT
Page	Page	Page
Fittings, Pipe 67, 68, 69, 70	Furnaces, Refractory Enclosures for 54	Glass Filters 35
Flame Arresters 34	Furnishing and Internal Services 46	Glazing, Steel, Patent Roof 62
Flame Cleaning 27	Furnishings for Factories and Stores 60	Globe, Valves, Non-Ferrous 72
Flame Hardening—Welding 76	Furniture, Tubular 68	Globe Valves, Steel 72
Flame Proofed Engines (Diesel) 49	Fuses 30	Gloves 57
Flame Protection 42		Go-Devils, Pipeline-Scrapers, Pigs 68
Flanges 67, 68		Goosenecks, Stand Pipe 56
Flanges, Casing 56		Grab-Buckets 29
Flanges, Insulating 45		Gravity Conveyors 26
Flanges, Stainless Steel, Forged and	G	Grease Plants 14
Cast 59		Grinding Mills 47
Flaps 74	Galvanized Sheets, Wire 62	Ground Power Units, Airport 18
Flare-Stacks 62	Galvanized Tanks 65	Guards, Machinery 36
Flash Chambers 54	Galvanizing 27	Guides, Wire Line 56
Flash Point Apparatus 45	Garage Pumps, Petrol and Oil 52	Gum Stability Bombs 42
Flexible Joints, Cast Iron Pipe 68	Gas Absorpers and Strippers 34	Gunmetal Castings 23
Flexible Couplings 36	Gas, Argon 34	Guns, Mud Mixing 56
Flexibles and Cords 22, 29 Float Valves 72	Gas Coolers 34	
	Gas Fractionating Plant 14	
	Gas Lift Valves 49	
Floating Blankets for Tanks 65 Floating Craft and Barges 34	Gas Lift Valves 49 Gas Meters 42	
Floating Roof Tanks 65	Gas Compression Plant 34	Н
Floating Suction Assemblies 65	Gas, Natural and Casing Head,	
Floats, Tubing and Drill Pipe 56	Absorption 14	Hacksawing Machines 46
Floors, Industrial 62	Gas Pressure Regulators 42	Handling Coal and Ash, Equipment
Flotation Plant 54	Gas Production Plant 14	for 19
Flow Beans 49	Gas Production, Synthesis and Purifi-	Handling of Materials, Mechanical 39 Handrails 62
Flow Controllers 42	cation 15	Hangers, Casing and Tubing 76
Flow Diagrams, Mimic and Indicator	Gas-Oil Separators 58	Hangers, for Pipelines 68
Boards 42	Gas Treatment Plant 14	Hardfacing for Bits 56
Flowing Test-Sets 45	Gas Turbines 49	Hardfacing Service and Rods 36
Flow Switches 31	Gaseous Fuel Burners 19	Hard Surfacing Electrodes 75
Flue Gas Analysis-Sets 42	Gasholders, Water-Sealed and Pressure 34	Headers and Return Bends for Distil-
Fluid Couplings for Power Trans-	Gaskets 34	lation and Cracking Plants 54
mission 48	Gaskets, Ring, Well-head 76	Heads, Casing 56
Fluon (P.T.F.E.) Gaskets 35	Gate, Valves 72	Heads, Cement 56
Flushing and Coolant Trolleys 18 Fluxes, Foundry and Welding 47	Gauge Glasses 19	Heads, Circulating 56
Fluxes, Foundry and Welding 47 Fluorescent Lamps and Fittings 30	Gauges, Ammonia 35	Heads, Tubing 50, 56
Foam Fire-Fighting Materials and	Gauges, Depth 65	Heat Exchangers, Air-Cooled 37
Equipment 34	Gauges, Draught 42	Heat Exchangers, Coolers, Con-
Foam Ingredients, Pumps for 51	Gauges, Fixtures and Jigs 66	densers 37
Food Preparation and Canteen	Gauges and Indicators, Liquid Level,	Heat Resisting Steel Castings 23
Equipment 13	and Remote 42	Heat Resisting Coatings, Paint and
Footvalves and Strainers 72	Gauges, Pressure 35	Enamel 47
Footwear, Safety 34	Gauges, Screw Testing 56	Heat Resisting Steel 61 Heat Treatment 32
Forgings, Alloy, Carbon and Stainless	Gauges, Screw-Thread 36	
Steel 47 Forgings, Drop Stampings 60	Gauges, Strain 44	Heaters and Dryers 22 Heaters, Air 36
P ' N P	Gauges, Vacuum 36	Heaters, Electric 19
Forgings, Non-Ferrous 34 Forgings, Tool-Joints, etc., Steel 56	Gauges, Well-head-Completion 76 Gauging, Electronic, Tank 44	Heaters, Emulsion 37
Fork Lift Trucks 39, 75		Heaters, Feed Water 19
Foundation Bolts 21	Gear Blanks, Steel 36 Gear Cutting Tools and Machines 46	Heaters, Fuel Oil 19
Foundations, Piling for 34	Gear Pumps 51	Heaters, Suction, Tank 37
Fractionating, Gas Plant 14	Gear Units, Increasing and Reducing 36	Heaters, Tubular Oil 37
Fractionating Towers 54	General Engineering Equipment,	Heating Baths, Mantles, Laboratory 46
Friction Hoists 39	Services, Tools 66	Heating Systems, High Temperature 14
Fuel Burning Systems (Liquid and	Generating Sets 30	Heating and Ventilating 14, 75
Gas) 13	Generators, Inert Gas 34	High Duty Iron Castings 23
Fuel Burning Systems, Installation 16	Geophone-Cables 36	High Frequency Equipment 30
Fuel Filters 33	Geophysical Equipment 36	High Speed Steel 61
Fuellers, Mobile 18	Gilled Tubes 68	High Temperature Cement and
Fuller's Earth 54	Girders 62	Plastic 55
Fume Extractors 46	Glands, Packing for 45	High Tensile Steel 61
Furnaces 54	Glands, Packless — see Mechanical	High Vacuum Luboil, Plant 14
Furnaces and Accessories Refinery 54	Seals, page 47	Hobs and Special Thread Gauges 66
Furnaces, Heat Treatment 34	Glass Fibre Laminates 48	Hoist Blocks, Electric 39

PRODUCT	Product	PRODUCT
Page	Page	Page
Hoist Trucks 75	Installation of Process Piping 68	Lamps, Electric, all Types and
Hoisting, Winding and Haulage 39	Installations, Loading and Unloading	Fluorescent 30
Holders, Bit 66	Liquid 14	Lapping, Machine Tools 46
Holiday Detectors 27	Instrument Transformers 30	Latex, Cement 57
Hollow Forged High Pressure Vessels 49	Instrumentation for Automatic Control, Measurement and Regulation 40	Lead Lining, Homogeneous 27
Hollow Forgings 34	Instrumentation Systems, Installation 16	Lead Lining, Sheet (Tanks) 65 Leak Clamps, Collar 68
Homogeneous Lead Lining 27	Instruments and Controls 41	Leak Clamps, Collar 68 Leak Detection 46
Homogenizers 39 Hooks, Chain 28	Instruments, Cathodic Protection 24	Leak Detection 46
Hooks, Chain 28 Hoppers 26	Instruments, Electric Switchboard 30	Leather Belting 48
Hopper-Mouths, Crane-Skips' 25	Instruments, Laboratory 45	Leather, Hydraulic Mechanical 40
Hortonspheres — see Tanks Spherical	Instruments, Scientific 45	Level Controls 19
Pressure, page 65	Insulating Oil Testing Apparatus 30	Life Saving Apparatus 46
Hose and Fittings, Kerbside Pumps 52	Insulation 44	Lifting Tackle 28
Hose 39	Insulation of Pipes, Thermal 16	Light Alloy Castings 46
Hose, Couplings 40	Insulation of Steel Structures 62	Light Alloys 46
Hose, All Steel Rotary 56	Insulation Testing Instruments 44	Light Steelwork 62
Hose, Fire, Reels, and Wheeled	Integrating Watt-Hour Meters 30 Interface Controllers 42	Lighting Distribution Control Boards 30
Mounts 34	Internal Combustion Engines 49	Lighting Fittings, Industrial 30
Hose-handling Equipment, Jetty-side 54	Iron Castings 23	Lightning Arresters 30 Lights, Control-Panel Indicator and
Hose Liquefied Petroleum Gas 46	Iron Castings, Spheroidal Graphite 23	Pilot 30
Hose, Refuelling, Aircraft 18, 40 Hose, Rotary and Fittings 40	aron Outlings, opnorodan Grapina 25	Lights, Pneumatically Operated 48
11000, 110111, 111111		Lime, Milk of, Plant 54
Hose, Steam, Fire 40 Hose, Steel Cementing 40, 56		Liners, Slush Pump and Packings 56
Hotplates 46		Lines, Steel Wire Rope 76
Hot Face Insulating 55	J	Lining, Titanium 27
Houses, Prefabricated 40		Lining of Towers and Reactors 16
Houses, Utility 62	Jacks, Hydraulic 40,56	Linings, Acid Resisting 45
Humidifiers (Gas) 54	Jacks, Pumping 49	Linings, Brake and Clutch 32
Humidity Recorders, Transmitters	Jars, Drilling and Fishing 28 Jet Condensers 26	Linings, Rubber and Synthetic, Tank 27,65
and Controllers 42	Jet Condensers 26 Jetties, Pipe 63	Tank 27,65 Linings, Rubber and Synthetic, Pipe 27
Hydrant-Pits 18	Jetties, Screw Pile 63	Links, Elevator 56
Hydrants, Dispensing 28	Jointing Compound 68	Liquid Fuel Burners 22
Hydrants, Fire 34 Hydrant-Valves 18	Jointing, Oil, Steam and Chemical 45	Liquid Level Indicators, Gauges and
Hydrant-Valves 18 Hydraulic Appliances 40	Jointing, Petrol Resisting 45	Controllers 42, 46, 65
Hydraulic Instruments (Gauges) 35	Joints, Compression Pipe 68	Liquid Meters 42
Hydraulic Jacks 40	Joints, Ring 35	Liquefied Petroleum Gas Equipment
Hydraulic Presses 44	Joints, Swivel 69	Valves and Fittings, Cylinders 46 Living Quarters, Trailer-Mounted 75
Hydraulic Rams 51	Joints, Tool 56	Loading Arms and Valves 28
Hydraulically operated Valves 72	Joints, Swing, Storage Tank 69	Loading and Unloading Assemblies
Hydrostats 51	Junction Boxes — see Conduit and	for Barge and Tanker Service 28
	Fittings, page 29	Loading and Unloading Equipment,
		Vehicle, Liquid, Installations, Com-
		ponents and Assemblies 14 Loading Racks 68
		Lock Nuts 68
	K	Locomotives and Rolling Stock 46
I and the second		Lorry-Loader for Drums, Barrels.
Ignition Equipment, Electric 30	Kellys, Rotary 56	Cases, etc 75
Impact sockets for Nut Running 66	Keys, Machine 32	Lost Wax Castings 23
Increasing and Reducing Gear Units 36	Kittel Plate, Distillation Tray 54	Low Pressure Gas Burners 22
Indicators 32		Low Temperature Storage Plants 14
Induction Heating, Equipment		Lubricating Oil Blending Plants 14
Electric 30		Lubricating Oil, Filters 33
Industrial and Light Railway Material 46		Lubricators and Greasers 46
Inert-Gas Fire Fighting Installations 34	L	
Inert-Gas Shielded Metal-Arc, Welding 75	L.P.G. Bulk Transport 75	
Infra-red Drying 14	L.P.G. Equipment/Installations 46	
Injection Pumps (Chemical) 19	L.P.G. Manufacture 54	M
Injectors 19	L.P.G. Vessels 46	
Inserts, Hard Metal 56, 75	Laboratories, Installation 16	Machines for Pipelines—Cleaning,
Inserts for Tube-End Protection 68	Laboratory Furniture 45	Priming, Coating, Wrapping 27
Inspection 41	Ladders, Stainless Steel 59	Machines (Tables) Rotary 56
Installation, Repair and Construction	Laminates, Glass Fibre Plastic 48	Machine Tools, various 46 Machining Precision 47
Services 15	Lamps and Torches, Safety 57	Machining Precision 47

PRODUCT	Product	Product
Page	Page	Page
Magnesium Alloys 47	Nickel and Nickel Base Alloys 15, 23	Perforated Sheets and Plates 47, 48, 60
Magnets 66 Magnets, Brake 29	Nickel-Chrome Tubular Products, Centrifugally Cast 67	Petrochemical Plant 14 Petrolatum-Based Wrappings 47
Malleable Iron Castings 23	Non-Ferrous Alloys 15	Petroleum Refineries 14
Malleable Iron Pipe Fittings 69	Non-Ferrous Heat Exchanger Com-	pH Recorders and Controllers 43
Mandrels, Drift 56	ponents Castings 47 Non-Ferrous Metals Advisory Service 15	Phosphor Bronze Castings 23 Photo-electric Cells 43
Manganese Bronze 23, 47 Manhole Doors (Boiler) 20	Non-Ferrous Metals 47	Physical Instruments 46
Manipulators, Welding 76	Non-Ferrous Tubular Goods and	Pickling and Washing Plants 54
Mantles, Electric 30	Fittings 66	Pickling, Phosphoric Acid 27
Mantles for Glass Flasks, Heating 46 Marine Installations for Handling	Nozzles and Fire Hose 18 Nozzles, Oil and Trigger Operated 18	Piled Foundations 55 Piledriving Plant and Winches 28
Liquid Cargoes 14	Nozzles, Wet Hose 40 Nuts, Carbon and Alloy Steel 21	Piles, Fabricated Steel 61
Marine Lighting Fittings 30	Nuts, Carbon and Alloy Steel 21	Piling, Concrete, Bored and Cast-in-
Masks, Gas, Fume and Dust 57 Mass Spectrometers 42	Nuts, Non-Ferrous 21 Nylon Rope 55	Situ for Foundations 25 Pilot Plant, Design and Testing 14
Masts, Well Servicing and Drilling 56	Trylon Rope	Pinions — see Machine Cut Gears,
Mats. Plastic, Glass Fibre Reinforcing 48		page 36
Mats, Safety Industrial 57 Measures, Liquid 42		Pipe, Aluminium 66 Pipe Cleaning, Internal and External 16
Measuring Devices for Wells 42		Pipe-Cutting Machines 16, 66
Measuring Instruments 42	0	Pipe Cutting and Trepanning 16 Pipe-End Closures, Hinged 68
Measuring Lines for Oil Wells 42	O Pinns	Pipe-End Closures, Hinged 68
Measuring Tube, Flow 42 Mechanical Handling Equipment 39	O-Rings 47 Off-Shore (Marine) Structures and	Pipe, Fabricated 67 Pipe Fittings 68
Mechanical Engineering 13	Works 16	Pipe Heaters, Electric 16
Mechanical Rubber Mouldings 57	Off-Site Facilities 54	Pipe Jetties 63
Mechanical Seals 47,54 Melting Point Apparatus 46	Oil Burners 22 Oil Burner Valves 73	Pipe Straightening Machines, Hydraulic 40
Membranes, Roofing 63	Oil Distillation and Cracking Plant 44	Pipe Unions, Flexible 69
Mercury Arc Rectifiers 30	Oil Distribution Instruments 43	Pipe, Wrought Iron and Steel 69
Metal Spraying 47	Oil Field Auxiliaries, Installation 16 Oil Field Instruments 43	Pipeline Consultants and
Metal Work, Architectural 62 Metallic Materials, Advisory Services 15	Oil Filters 33	Inspectors 16, 18, 68 Pipeline Oil Transport 14, 16
Metals, Alloys, Corrosion resistant 27	Oil Gasification Plants 14 Oil Refinery Instruments 43	Pipeline Pig Detectors 67
Metals, Non-Ferrous 47	Oil Refinery Instruments 43	Pipeline Pigs 68
Metering Pumps 51	Oil Seals 47 Oil-Tank Vapour Valves 73	Pipeline Tools 66 Pipeline Transport 75
Meters, Airport, Liquid 18	Oil-Water Separators 58	Pipelines, Submarine 16
Meters and Accessories 41, 44 Meters, Airport, Liquid 18 Meters, Engine Exhaust Smoke 32	Oil Suction and Discharge Hose 40	Pipes, Cast Iron 68
Meters, Liquid 18, 42 Meters, Venturi and Orifice Fittings 43	Oilwell Pumping Units and Pendulum Pumpers 50	Pipes, Coating, Internal and External 16
Micrometers 66	Oilwell Pumping and Drilling (Electric	Pipework 17
Micro Filters 33	Gear) 30	Pipework, Plastic 17, 48
Microscopes, Electronic 46 Milling Cutters 66	Orifice Plates 43 Oscilloscopic, Stroboscopic and Vibra-	Pipework, Steel 60
Mills (Pulverizing and Fine Grinding) 47	tion Equipment 43	Pipewrap 27 Pistons and Rings 32
Mineral Water Machinery 14	Outboard Motors 49	Pit Covers for Valves 18
Mixers and Washers 54 Mobile Refuellers 18	Ovens, Industrial 37	Pitch Burners 22
Mobile Refuellers 18 Moisture Content Controls 43	Overhauls, Engine 32 Overhead-Line Equipment 31	Pitch Distillation 13 Planning, Laying-out, and Contracting
Monitoring and Logging, Data 41	Overshots, Circulating and Release 56	Services for Refineries', Oilfields',
Moorings, Air Fields 18	Oxy-Acetylene Gas Generators 75 Oxygen, Analysis 43	Transport and Storage Installations 18
Moorings, Marine 22 Motor Control, Electronic 30	Oxygen, Analysis 43 Oxygen Compressing Equipment 25	Plants, Útility 25 Plastic Expanded Sheets 48
Motor Converters 30	The state of the s	Plastic Tubes and Fittings 48
Motor-Operated Valves, Electric 73		Plastic-Spraying 27
Motors, Compressed Air 49 Motors, Electric, A.C. and D.C 30		Plastics, Mouldings and Products 48 Plate Work, Steel 59
Motors, Electric for Valves 70		Plates, Rolled Steel 61
Mouldings, Injection and Com-		Plates and Rods, Copper, Firebox 20
pression 48 Mouldings, Mechanical Rubber 57	P	Plates, Non-Ferrous 26 Plates, Non-Ferrous (Plain and
Mountings, Anti-Vibration 36	Packaging, Preservation and Trans-	Circular) 47
Mountings, Boiler 20	portation 47	Plates, Stainless Steel 61
Mud and Vibratory Mud Screens 56 Mud Circulating Systems 56	Packing, "Overflow" 54	Platforms, Drilling Off-Shore 63
Mud Circulating Systems 56 Mud Conditioner 56	Packings, Condenser 45 Packings, Mechanical 45	Platforms, Underwater Survey 63 Platinum Group Metals Advisory
Mud Pumps, Packing 45	Packings, Tower 54	Service 15
Mud Tanks 56 Multi-tube Air-Line 40	Packings, Glands 45	Plugs, Set Shoe 56
Wutti-tube Au-Line 40	Paint and Enamel 47 Pallets, Steel and Wooden 39	Plumbers' and Pipeliners' Tools 66 Plummer Blocks, Self-Lubricating 48
	Panels, Electric Automatic Control 31	Pneumatic Appliances and Tools 48
	Panels, Control 29	Poles for Tramways, Telegraphs,
N	Pans, Mixing 59 Paraffin Wax Plant 54	Transmission and Lighting 31 Polished Rods (Pumping) Production 50
	Parallel Slide Valves 73	Pollution, Air, Control 41
Natural and Casing Head Gas	Partitions, Steel 63	Polystyrene, Expanded 44
Absorption 14 Needle Valves 73	Percussion Drilling Equipment and Tools 28	Polyurethane Insulation 45 Portable Cable Drilling Rigs 14
11 11 11 11 11	11 11 11 11 11	17

PRODUCT	PRODUCT	Product
	Dage	Page
Page	Page	
Portable Pumping Sets 51	R	Rods for Oxy-acetylene Welding and
Portable Rotary Drilling Rigs 14	- 1 1 D C D W D' CO	Hard Surfacing 75
Positioner, Valve 73	Racks and Ramps for Drilling Pipe 63	Rollers and Compactors, Road 29
Potentiometers 43	Racks (Loading), Steel 63	Roofing Steel Cored Asbestos 63
Powder, Hardsurfacing Alloy 47	Radiators, Internal Combustion En-	Rooming Steel Coled Assessos 05
Power Controllers 29	gine 32 Radiators, Cast Iron 75	Rope, Hemp, Sisal, Manila, Jute,
Power Distribution, Electric Trans-	Radiators, Cast Iron /5	Nylon and Terylene 55
formation and Control 14	Radio Communication Equipment 52	Rope, Cotton, Manila, etc. for Power Transmission 48
Power Packs 49	Rails, Steel Sleepers, Sole plates and	Pone Cteel Wire 76
Power Packs, Petrol and Vapourising	Fishplates 46 Railway Castings and Forgings 46	Rope, Steel Wire 76
Oil 49	Railway Castings and Forgings 40	Rotary Converters 31
Power Plant and Boiler Structures 63	Railway Track Permanent Way Main-	Rotary Drilling Equipment (Deep
Power Transmission Equipment,	tenance Equipment 46	Wells) 14, 55
Electrical 31	Railway Signal Posts 63	Rotary Hose and Fittings 40
Power Transmission Gear, Mechanical 48	Raising and Lowering Gear for Light-	Rotary Machines (Tables) 56
Precipitation, Electric 31 Preheaters 54	ing Installations 31	Rotary Vacuum Filter Presses 33
Preneaters 54	Ramps, Car and Lorry 63	Rotating Shafts of Pumps, Centrifugal
Prepared Sections and Plates 61	Raschig Rings 55 Rat-Hole Drilling Equipment 57	and Rotary, Glands for 45
Pressed Steel Tanks 65	Rat-Hole Drilling Equipment 5/	and Rotary, Glands for 45 Rubber Bonded to Metal Parts 57
Presses, Hydraulic 41	Ratchet Braces 63	Kupper Groods
Presses, Wax Extraction and Caking 55	Ratio Controls 43 Reactors 59	Rubber Lined Pumps 51 Rubber Mouldings, Mechanical 57 Rubbers for Slush Pumps 57
Pressings, Steel 60	Reactors 59	Rubber Mouldings, Mechanical 57
Pressure Controllers 20 Pressure Distillate Rerun 14	Reactors, Electric 31 Reamers 57	Rubbers for Slush Pumps 57
Processes Courses Courses 35	Realliers 5/	Runways and Telfers 27
Pressure Gauges 35 Pressure Loading Valves, Slow Action 17	Reamers, Adjustable Floating 66 Receivers, High Pressure Air 25	
Pressure Recorders 20	Recorders, Pressure, Temperature 43	
Pressure Switches 31	Recovery from Diesels, Waste Heat 21	
Pressure and Vacuum Controllers 43	Poctifiers 31	
Pressure and Vacuum Relief Valves 65	Rectifiers	
Pressure Vessels, (Lloyds approved),	Peels Hose and Wall-fiving 34	
Class I and Class II 48, 49	Defineries Detroleum 14	
Pressure Vessels, Cast, Ferrous and	Refinery Auxiliary Equipment Com-	S
Non-Ferrous 49	ponents 52	
Non-Ferrous 49 Pressure Vessels, Hollow Forged 49	Refinery Plants and Auxiliaries, In-	Saddles, Pipe 69
Preventers, Blowout 56	Remery Plants and Auxiliaries, III-	Saddles, Pipe 68 Safety Equipment, Fire 57
Prime Movers, etc 49	stallation 17 Refinery Process Pumps 51	Safety Equipment, Fire 57 Safety Equipment: Belts, Gloves, Goggles, Lamps, Masks, Mats and
Process Controllers 43	Refineries and Installations Marketing	Goggles, Lamps, Masks, Mats and
Process Refinery, Pumps 50		Helmets 57
Production Equipment, Electric Gear 49	Equipment 13, 14, 15, 52, 53, 54, 55 Refining of Oil, Chemical 13	Safety-Relief Valves 20,74
Propeller Mixers 54	Reflux Dividers 55	Sampling, Device for Pressure
Proportioning and Metering Pumps 51	Reflux (Check) Valves 71	Tanks 44
Prospecting and Shothole Drilling	Refractory Cements, Castables and	Sand and Ballast Pumps 51
Machines 28	Plastics 20	Sand and Shot Blasting 2
Protection External, for Thermal In-	Refractory-Contract, Labour and	Scaffolding Tuhular
sulation 45	Gunning 17	Scaffolding, Tubular 63 Scraper Haulages 39
Protective Coatings 27	Gunning 17 Refractories 20,55	Scrapers, Drag and Buckets 29
Protectors, Casing 57	Refrigerating Machinery 55	Scrapers, Paraffin 50
P.T.F.E. Fabricators 48	Refrigeration Plants, Installation 17	Scrapers, Pipeline 68
Public Address Systems 31	Refrigeration Tubes 69	Scrapers, Wall, Bottom Hole and
Pull Rods and Fittings, Production 50	Regulating Valves, Pressure 73,74	Casing 5
Pullers, Pump Valve Seat 57	Relays and Instruments, Electro-	Scratchers, Wall-cleaning 5
Pulley Blocks 39	Pneumatic 43	Screener Conveyors 20
Pulleys, Conveyor, all Types 27	Relays, Switchboard 30	
Pulling Machine 28	Release Vessels and Valves, Auto-	Screens 58 Screw Pile Jetties 63
Pulsation Dampeners 24	matic Air or Gas 70	Screw Pumps 51
Pulverized Fuel Burning Systems 14	Relief Valves 74	Screws, Steel and Non-Ferrous 2
Pulverized Fuel Burners 22	Remote Control Switches, Indicators	Scrubbers, Gas 58
Pulverizing Mills 47	and Controllers (Electric) 31, 44	Seals, Mechanical, Rotating 4
Pump Castings 22, 23	Rerun, Pressure Distillate 14	Seals, Oil, and Rings and Washers,
Pump Drive, Independent 56	Resuscitating Apparatus 57	Rotary 4'
Pump-Stations 17	Rigs, Drilling 57	Rotary 4' Seals, Water 22
Pumping Equipment for Ring Mains 18	Rigs, Portable Cable Drilling 14	Seismic Shot-Hole Drilling Machines 2
Pumping Units, Hydraulic 51	Rigs, Portable Rotary Drilling 14	Seismic Surveys, Portable Mud Pumps
Pumping Units, Beam 49	Rigs, Water Well 28	for 5
Pumps, All Types 50	Ring Mains, Pumping Equipment 18	Seismograph Equipment 58
Pumps, Slush 52 Purification, Water, Mobile Units 14	Rings, Jointing, Iron and Alloy Steel	Semi-Rotary Hand Pumps 52
P.V.C., Polyethylene and Plastic	35, 45, 69	Separator, Liquid 33
Equipment 48	Rings, Solid Forged and Rolled 60	Separator (Oily Water) Controls 4
Pyrometers 42	Rings, Welding 70	Separators, Emulsion 55
Pyrometers 43 Pyrometer Sheaths 43	Rivets 21	Separators, Field's-Crude Oil and Gas 50
Tyrometer sheaths 43	Road Making and Civil Engineering	Separators, Installation 1'
	Appliances 55	Separators of Liquids, Gases, Solids 58
	Road Signs 55	Septic Tanks 58
Q	Rock Bits 57	Servicing Equipment, Production 5
	Rock Drills 55	Servos, Electric 3
Quick-change Unions 57, 69	Rods, Tubes, Non-Ferrous, Chill and	Set Screws, alloy steel 2
Quick-closing and Opening Valves 74	Continuous Cast 47	Sewage, Disposal and Treatment
Quilts, Insulating 45	Rods, Bronze 75	Equipment 14,58

PRODUCT	Product	Product
Page	Page	Page
Sewage Pumps 52	Standard Cable Drilling Rigs and	Switches, Liquid Flow and Pressure 31
Sewer Cleaning 17	Tools 14	Swivel Joints 69
Shackles, Lifting 28	Standnines Pads and Nozzles,	Swivels, Catline 57
Shafting and Accessories 48	Wrought Steel 20 Starters, Motor 31	Swivels, Lifting 28 Swivels, Rotary 57
Shale Shakers 57	Starters, Motor 31	Synthesis Gas Production 14
Shallow Drilling and Coring 28	Steam Distribution 59 Steam Generation and Installation of	Synthetic Linings 65
Shear Relief Valves 74 Sheaves, Wire Rope 76	Plant 15, 17	Synthetic Rubber Jointing for Bolted
Sheet-Metal Working Machinery 58	Steam, High Temperature Valves 74	Tanks 45
Sheet-Metal Fabrication, Steel 60	Steam Jacketed Filters 33 Steam Jacketed Valves 74	
Sheets, Perforated 4/	Steam Jacketed Valves 74	
Sheets, Steel 61	Steam Jointing, High Temperature 74	
Sheets, Rubber, Electrically Heated 57 Shell-Mould Castings 23	Steam Reciprocating Engines 49 Steam Separators 58	
Shells, Channels, C.I. & Non-Ferrous 37	Steam Traps 60	T
Shells, Forged Steel for Heat Exchan-	Steam Traps 60 Steel Abrasion Resisting 61	
gers 37	Steel and Wrought Iron Pipe 69 Steel Castings 23	Tachometers 31
Shoes, Casing, Cement (Float and	Steel Castings 23	Tackle, Lifting 27
Guide) and Whirler 57	Steel Commercial Plate Strip Wire	Tank Cleaning Service 17 Tank Equipment, Oil 65 Tank Erection 17
Shoes, Diamond Washover 56 Shot-Hole Drilling Equipment 28	Steel Commercial Plate, Strip, Wire, Blooms and Billets 61	Tank Erection 05
Shovels 21	Steel, High Tensile 61	Tank Fittings and Valves, Stainless
Shovels 21 Silencers 32	Steel, Manganese 61	Steel 65
Silica Bricks 55 Sillimanite Bricks 55	Steel (Manipulation) 60	Tank Foundation Service 17
Sillimanite Bricks 55	Steel (Material only) 61	Tank Gauge, Automatic 65
Skips, (Buckets), Crane 25, 29, 32 Slings, Equalizing 56	Steel Structures 17 Steels, Alloy, Advisory Service 15	Tank Gauging and Sampling 44
Slips, Casing, Rotary and Drill Collar 57	Steels, Clad, (Stainless, Nickel, Monel) 61	Tanker Fittings, Marine 65 Tanks and Tank Fittings 64
Slipways 63	Stirrers and Shakers 46	Tanks and Vessels, Stainless Steel 59
Sluices, Flaps and Penstocks 74	Stock Indicators 34	Tanks, Skid and Trailer Mounted 65
Slush (Mud) Pump Valves 74	Stocks and Dies, Chasers 66	Tape Heaters 37
Slush Pumps and Accessories 57 Slush Pump Pressure Gauges 36	Stokers, Mechanical 20	Tape, Insulating 45 Taper Dowel and Cotter Pins 32
Slush Pump Pressure Gauges 36	Stone Quarry Equipment 55	Taper Dowel and Cotter Pins 32
Snow-Plough 55 SO ₂ Recorders and Controllers 43	Stoneware Acid Pumps 25 Stoppers, Pipe 69	Taps, Drum and Can 24 Taps, Engineers 66
Sockets for Nut Running 66	Stop Rings 28, 57	Taps, (Faucets) Delivery and Drain 22
Socket-Welding Fittings 69	Stop-Valves, Boiler 20	Tar-Acids Fractionation 14
Soda-Acid Materials and Appliances 34	Storage and Distributing Depots 14	Tar and Pitch Distillation Plants 14
Solenoid Operated Valves 72	Storage and Handling Bulk Materials 26	Technical Information on Materials 15
Solenoids 31	Storage Tank Controls 44	Telecommunications and Radio 52
Solvent Extraction, Plants 14	Storage Tank Installation 17	Telemetering Devices 31
Soot Blowers 20 Soot Blower Control 20	Stoves, Coke Heating 37 Straighteners, Kelly and Pipe 40	Telemeters, Pneumatic and Electrical 44 Telephone Transmission 52
Spades (Blinds) Pipeline 69	Strain Gauges and Recorders 44	Television Equipment 52
Spanners 66	Strainers 61	Television Equipment 52 Telfers and Runways 27
Spears, Hydraulic Casing 57	Stress-Relieving Equipment, Service 62	Temperature Recorders and Con-
Specialities 76	Structural Features for Conveyors	trollers 20, 44
Speed Reducers (Torque Arm) 36 Speedometers and Controllers 44	and Elevators 27, 32 Structures and Components in Alum-	Tenders, Airfield, Fire Crash 18 Testers, Earth Resistance 29
Spherical Pressure Tanks 65	inium 62	Testing Instruments 29
Spheroidal Graphite Cast Iron Ad-	Structures, Boiler 20	Testing Machine 47
visory Service 15	Structures, Steel 17, 62 Stud Bolts 21	Testing, Hydraulic and Air Operated
Spheroidal Graphite Cast Iron Valves 74	Stud Bolts 21	Pumps 52
Spheroidal Graphite Iron Castings 23	Stud Extractors 66	Thermal Cracking 14,55
Spiders, Casing 57 Spiders, Tubing 50	Stuffing Boxes, Production 76	Thermocouple Extension Cables 44
Spinning Line Swivels 50	Submarine Flexible Pipelines 16 Submersible Pumps 52	Thermometer Pockets 44 Thermometers 20, 44
Spray Booths 47	Substitutes 57	Thermostats 44
Spraying, Metal 47	Sub-Structures, Derrick, Draw Works	Thread Gauges 66
Spray Packaging Materials and	and Engines 28,56	Threading Machines 66
Services 47	Sucker Rods, Fittings and Production 50	Thrustors, Electric 31
Spraying, Plastic, Materials 48 Spraying Service, Paint and Enamel 17	Suction Assembly (Swing Pipe)	Tilting Disk Check Valves 71
Spraying Wire (Metal) 47	Floating 64,65 Suits, Aluminium, Heat Reflecting 50	Timbers 15, 66 Time Controls 44
Springs, Coil and Flat 58	Sulphur Burners 55	Time Switches 31
Springs for Pump Valves 57	Sulphur Recovery 55	Tinplate 61
Springs for Rolling Stock 46	Sulphuric Acid Manufacture 55	Titanium Alloys Technical Inform-
Sprinkler Installations 34	Sump Pump (Air Operated) 52	ation 15,47
Sprocket Wheels 48 Spudders, Tubing, Portable 57	Superheater Castings 24	Tongs, Chain Pipe 66
Stabilization, Crude Oil 13	Superheaters 20 Superheater Supports 20	Tool Steels 61 Tools (Engineers) 66
Stabilizers, Dead Line 57	Supports, Pipeline 69	Tool-joints, Rotary 57
Stackers, Lifts, Elevating Trucks 39	Surface Condensers 26	Torches, Cutting and Gouging 75
Stages, Gantries and Trestles 63	Surge Eliminators 18,55	Torches, Hand 30
Stainless Steel 61	Surveying Instruments 44	Torque Converters 48
Stainless Steel, Machined Castings 23 Stainless Steel Strip 59	Swabs, Tubing 50	Torque Wrenches 66
Stainless Steel Vessels 59	Swaged Nipples, Forged Steel 69 Swing Joints 69	Towers and Water Towers, Steel 63 Tower Packings 54
Stainless Steel Wire and Rope Cord 76	Switchboards, Electric 31	Tracer Tubes, Integral 69
Staircases 63	Switches, Float 31	Traction, Electric 31

PRODUCT	PRODUCT	PRODUCT
P.	Daga	Page
Page	Page	
Tractors and Trailers, Replacements 75	Underpressure Work 17	Washing Machines for Cans and
Trade Names 76	Underground Tanks 65	Drums 75
Trailers, Industrial 27 Transducers, Electro-Pneumatic 44	Under-Reamers 57	Waste-Heat Recovery from Internal
Transducers, Electro-Pneumatic 44	Underwater Appliances 70	Combustion Engines 21
Transformers, Electric 31	Underwater Cutting Apparatus 70	Waste Water and Oil Separators 55
Transmissions, Locomotive and Rail-	Uniflux Distillation Trays 55	Water Coolers, Industrial 27
car, Oil Operated 46	Unions, Misaligning Pipe 68	Water Drainage 14
Transport, Fine Materials, and Bulk-	Unions, Pipe 69	Water Evaporation 14
Cement 75	Unions, Pipe 69 Utility Plants, Pump 25, 31, 52	Water Level Gauge 21
Transporters and Traversers 27		Water, Mobile Trailer Mounted Tanks 65
Transporters, Vehicular, for Bulk		Water Purification, Mobile Units and
Materials and Cements 27		Static Plants 14
Traps, Air 59 Traps, Pipeline-Scraper 69		Water Purity Meters 44
Traps, Pipeline-Scraper 69		Water Separators 58
Traps, Water 48		Water Storage Plants 14
Travelling Blocks 55		Water Supply and Filtration 14
Trepanning Machine 66	V	Water Supply and Treatment Systems,
Tripod Stands, Folding 69		Installation 17
Trolleys Flushing and Coolant 18	V. Belts and Pulleys 48	Water Tube Boilers 21
Truck Chassis	Vacuum and Absolute Pressure	Water Turbines 49
Trucks Dump 29 75	Gauges 36 Vacuum Equipment, Steam Jet 70	Waterproofing: Coatings 27
Trucks Flectric 21	Vacuum Equipment, Steam Jet 70	Waterworks Fittings 70
Trucks Forklift	Vacuum, High, Luboil Plants 14	Wax Deoiling 55
Trucks Hand	Vacuum Pumps 52	Wax Extraction and Caking Presses 55
Truck and Dail Tanks Values for 74	Vacuum Refrigeration 55 Vacuum Service Valves 74	Wear-Resisting Manganese Steel 47
Truck and Rail, Tanks, Valves for 74	Vacuum Service Valves 74	Weldahle Non Ferrous Eittings 70
Trucks, Mobile for Geophysical	Vacuum Switches 31	Weldable Non-Ferrous Fittings 70
Equipment 36 Truck-Tank Fittings 75	Vacuum Vessels 49 Valve Actuators 70	Welders, (Protective Clothing) 50
Truck-rank ritings /5	Valve Actuators 70	Welding, Electric and Oxy-Acetylene 17
Trunking for Electric Cable, Steel 31	Valve and Cock Castings, Steel 23	Welding, Electrodes 75
Tube Cleaners 26, 55	Valve Positioner 75	Welding Inspection, Service 17
Tube Cleaners (Turbine) 21	Valves, All Types, Ferrous and Non-	Welding, Installation 75
Tube Fittings, Copper 69	Ferrous 70, 71, 72, 73, 74, 75	Welding Rings 70
Tube Expanders 66	Valves Controlled Dell Steem 50	Welding Wire, Alloy Steel 75
Tube Fittings, Copper 69 Tube Expanders 66 Tube-Packing, Heat Exchanger 39	Valves, Controlled Ball Steam 59	Weldments up to 100 tons 60
Tube-Plates, Aluminium Bronze 46	Valves, Gas Lift (see Gaslift Equip-	Weld Neck Rings and Flanges 70
Tube Supports, Furnace 24,54 Tubes, Aluminium Brass 69	ment) 49	Well-Head Equipment, Drilling 57
Tubes, Aluminium Brass 69	Valves, Motor Operated 73	Well-Head Equipment, Production 50
Tubes Roiler	Valves, Pressure Loading 18	Well-Head Completion Fittings 76
Tubes, Condensate	Valves, Pressure Reducing 74	Wheels, Rolling Stock 46
Tubes, Corrugated, Large Size 21	Valves, Shear Relief 74	Wheels and Chains, Conveyor 26
Tubes, Duplex (Bi-Metallic) 26	Valves, Refuelling, Airport, Elec-	Wheels and Chains, Transmission 32, 48
Tubes, Ferrous 26 37	trically or Heat Operated 18	White Metal Alloys 47
Tubes Finned 68	Valves, Vent, Safety and Free Mush-	Winches and Hoists 28
Tubes Furnace 54	room 65,73	Windows and Doors Metal 64
Tubes Light Alloy	Vapourspheres 65	Windows and Doors, Metal 64 Window Water-Level Gauges 21
Tubes, Light Alloy 68 Tubes, Non-Ferrous 21, 26, 47, 69	Variable-Speed Drive (V. Belts) 48	Wipers, Kelly, Pipe and Wire Line 57
Tubes Non-Ferrous, Plastic Covered 60	Vehicle Springs 58	Wipers, Sucker Rod 50
Tubes Plastic Plastic Covered 60	Vehicle Auxiliaries 41	Wire Proid
Tubes, Plastic 48, 69 Tubes, Steel 69 Tubes Tracer, Integral 69 Tubing Blocks 50	Vehicle (Road and Rail) Tanks and	Wire Braid 76
Tubes Tracer Internal	Fittings 66	Wire Brushes 27
Tubes Tracer, Integral 69	Vehicles and Tractors 75	Wire, Steel 76
Tubing Blocks 50	Vehicle Tanks Pressure Type 65	Wire Line Tools 50 Wire-Rope, Steel 76
Tubing and Casing Heads, Production 50	Vehicle Tanks, Pressure Type 65 Ventilating and Heating Systems 17	wire-Rope, Steel 76
Tubing, Finned 68	Ventilators, Louvre 75	Wire, Welding 75
Tubing Fittings, Compression Plastic 48		Wood Preservative 48
Tubing, Flexible Metallic for Air,		Workshops, Mobile 75
Oil and Steam 40	Vessels I D.C.	Wrenches 66
Tubular Goods and Fittings 66		Wrenches, Pneumatic Impact 66
Tubular Scaffolding 63	Vessels, Stainless Steel 59	
Tubular Structures, Welded Steel 64	Vessels, Steel 64	
Tungsten Carbide Tips and Tools 66	Vibrators, Pneumatic 48	
Tungsten Carbide Products 70	Vices, Bench and Chain Pipe 66	
Turbine Reduction Gears 36	Viscometers, Indicating, Recording	
Turbines, Gas, Steam, Water 49	and Controlling 44	X
Turbo Compressors 25	Voice Recorders 52	
Turbo Mixers 54	Voltage Regulators 31	V Day Farriagent 7 1 1 1 1
Turbogrid Distillation Trays 55	Volume Controllers 44	X-Ray Equipment, Industrial 32
Twines 55	Vulcanizers 31	X-Ray Gloves, Protective Sheeting,
Tyres, Rubber 57		etc 76
Tyres, Wheel, Steel 46		X-Ray Service, Mobile and Test
2,120, 1111001, 51001 40		House Radiography 76
		X-Y Function-Recorder 42
U	W	
Ultrasonic Examination, Plates and		
Welds 44	Wagone Railway	
Underground Lighting Fittings 31	Wagons, Railway 46 Walkways and Stairtreads 61	Z
Underpressure Pipe-Drilling and Tap-	777 1 0 1 1 111 0 1	
ping Equipment 70	Washers, Carbon and Alloy Steel 32 Washers, Continuous 55	7ing Amades
2 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Washers, Continuous 55	Zinc Anodes 24

CLASSIFIED LIST OF BRITISH EQUIPMENT AND SERVICES