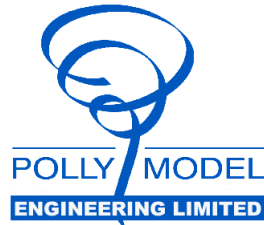


Tel: +44 115 9736700  
Fax: +44 115 9727251



**Polly Model Engineering Limited**  
Atlas Mills, Birchwood Avenue  
Long Eaton

Incorporating BRUCE ENGINEERING

# **POLLY MODEL ENGINEERING**

## **Catalogue – Part 1**

### **January 2021**

**Model Engineers Supplies:**

**Materials, fittings, tools, accessories, books,  
etc**



Molly Ann – the latest Polly Kit Loco

**Tel: +44 (0)115 9736700**

**Fax: +44 (0)115 9727251**

## Introduction:

Building on the strong foundations of Bruce Engineering and Polly Locos, Polly Model Engineering Limited is one of the leading suppliers to the model engineering hobby. Unique amongst suppliers with its in house manufacturing capabilities, Polly is able to address all your model engineering requirements. Combining over forty years of experience in supplying model engineers and a comparable time in the manufacture of renowned Polly kit build locomotives, we can justifiably claim to understand the needs of the model engineer. Furthermore we pride ourselves on the stock held, such that most items are available for immediate despatch.

This new 2018 catalogue is provided in two convenient volumes. The first volume contains the general model engineers supplies, including materials, fittings, accessories, books, tools, etc. The second volume contains drawings and castings for our ranges of stationary engines, fine scale standard gauge locomotives and our narrow gauge locomotive models. A separate catalogue is available for our renowned kit built locomotives.

The range of products listed is vast and whilst we are proud to be appointed agents for major engineering industry suppliers, we are also pleased to be associated with specialist model engineering suppliers including. Having invested heavily in the latest CNC technology we As we constantly strive to extend and update our range of fittings and supplies, please contact us whatever your requirements.

All prices listed include UK VAT (sales tax). Customers for export outside the EU, may deduct the tax from the listed prices. VAT on most items is 20%, although books are not taxed. Prices are current at the time of publication of the catalogue, but are subject to revision in the event of supplier price increases. Postage is additional on all orders, based upon the costs incurred with the Post Office.

This is a metric catalogue, and products are sold by weight in kilogrammes and length in metres. However, for the convenience of our customers generally working to imperial standards, certain dimensions (e.g. thread sizes) are quoted in inches or feet. Note: 1 foot is 304.8 mm and 1 inch is 25.4 mm.

Details of how to order, together with an order form are provided in this catalogue. We have NO MINIMUM ORDER CHARGE and international postage is no problem.



Photo: John .Clarke Legacy – the Polly kit built loco range

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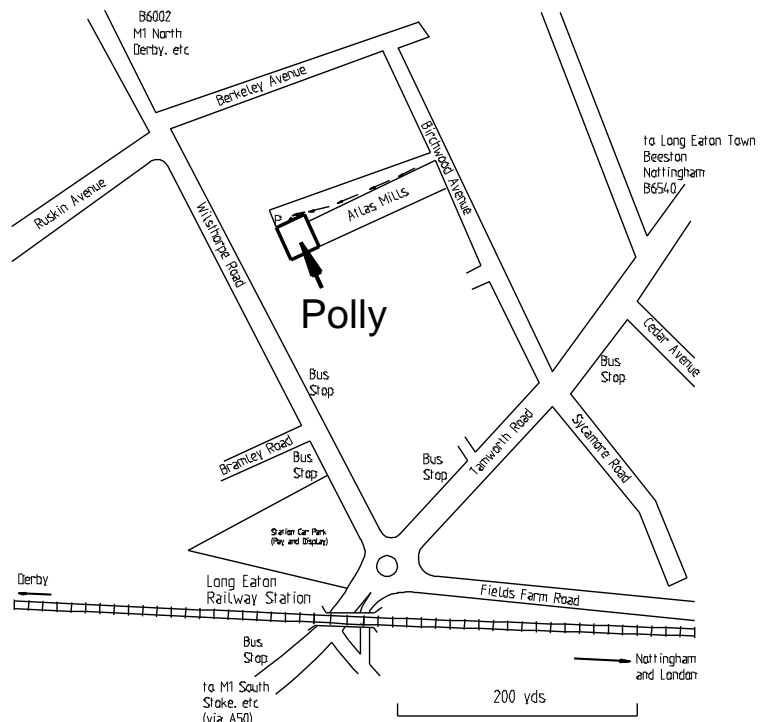
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## Where to Find Us

**Atlas Mills,  
Birchwood Avenue,  
Long Eaton,  
Nottingham,  
NG10 3ND**

Callers are welcome at the workshop, but it can be helpful to telephone beforehand and we can have things ready for you. Please be aware that parking in the yard is limited. For those travelling by train, we are only a few minutes walk from Long Eaton railway station.



Polly at a recent exhibition

In addition to our range of kit-build locos and general model engineers' supplies, you will find:

- Our own manufactured fittings, safety valves, lubricators, special GWR loco parts, etc
- Wide range of stationary engine kits including Stuart Models and designs by Anthony Mount
- Loco drawings, castings and parts from 3 1/2" to 7 1/4" gauge including exclusive designs serialised in the magazines – S.R. Q1 by Nick Feast, Fair Rosamund by Neville Evans, Collett Goods by Dave Aitken

Shop hours: Mon – Fri 9:00 to 16:30, closed for lunch 13:00 to 14:00

Address: Atlas Mills, Birchwood Avenue, Long Eaton, Nottingham, NG10 3ND

Find us on 

## Polly Locomotive Kits – see separate catalogue



Polly V £7208.00



Prairie 2-6-2 tank £7828/£8858



O&K 0-4-0T £6535.00  
0-6-0T £7006.00



0-4-0 'Trojan' £6374

Polly IV £6889.00



Polly III £6137.00



Polly I £5716.00



- **Since 1987 the famous 5" gauge live steam POLLY Loco kits.**
- **Complete fully machined kit of parts**
- **Can be assembled with hand tools**
- **10 different locos to choose from**
- **Driving/Passenger truck and accessories available**



Polly II £6385.00



Driving/passenger  
Truck from £807.00



Molly Ann 0-6-0ST  
Latest in the range £7044.00



Polly VI £8278.00

Renowned the world over for their sound design, ease of build and performance on the track. The range continues to develop. See separate catalogue and contact us for spares and accessories.

Jan 2021

For All your Model Engineering Requirements:

Email: [sales@pollymodelengineering.co.uk](mailto:sales@pollymodelengineering.co.uk) Polly Model Engineering Ltd (inc Bruce Eng) Fax +44 (0)115 9727251

Web: [www.pollymodelengineering.co.uk](http://www.pollymodelengineering.co.uk)

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Telephone: +44 (0)115 9736700



# Model Engineers Supplies

In previous catalogues, we separated out accessories, materials, fittings, etc but in response to customer demand, they are presented here alphabetically in one combined section, which we hope will enable you more readily to find your requirements. Some fine scale fittings, particularly GWR loco parts are listed in our Practical Scale catalogue (the second volume of this catalogue)

## Axle Bearings – Double Sealed Needle Roller Bearings

As specified by Neville Evans in his designs, for tender and locomotive axle bearings. Used on axles, these bearings provide low rolling resistance and long life.

|                      |            |
|----------------------|------------|
| 12mm ID (shaft size) | £5.15 each |
| 20mm ID (shaft size) | £8.30 each |



## Axle pumps

Conventional pumps suitable to be driven by eccentrics on locomotives, etc.

|                                       |             |        |
|---------------------------------------|-------------|--------|
| 3/16"/5mm ram axle pump double outlet | 1/4" stroke | £40.00 |
| 3/16"/5mm ram axle pump single outlet | 1/4" stroke | £40.00 |
| 1/4" ram axle pump                    | 1/2" stroke | £45.00 |
| 3/8" ram axle pump                    | 3/4" stroke | £50.00 |
| 1/2" ram axle pump 3/16" pipe         | 1" stroke   | £55.00 |
| 1/2" ram axle pump 1/4" pipe          | 1" stroke   | £55.00 |



## BA & Metric box spanners

**Our own in-house manufactured box spanners.** Manufactured from high grade steel, the ends of these tools are reduced in diameter to allow access to nuts/bolts in awkward locations.

Sizes from 2BA to 12BA & 2mm AF to 8 mm AF available individually

|                   |     |                       |     |
|-------------------|-----|-----------------------|-----|
| 2BA Box Spanner   | £3  | 2 mm AF Box Spanner   | £3  |
| 3BA Box Spanner   | £3  | 2.5 mm AF Box Spanner | £3  |
| 4BA Box Spanner   | £3  | 3 mm AF Box Spanner   | £3  |
| 5BA Box Spanner   | £3  | 3.5 mm AF Box Spanner | £3  |
| 6BA Box Spanner   | £3  | 4 mm AF Box Spanner   | £3  |
| 7BA Box Spanner   | £3  | 5 mm AF Box Spanner   | £3  |
| 8BA Box Spanner   | £3  | 5.5 mm AF Box Spanner | £3  |
| 9BA Box Spanner   | £3  | 6 mm AF Box Spanner   | £3  |
| 10BA Box Spanner  | £3  | 7 mm AF Box Spanner   | £3  |
| 12BA Box Spanner  | £3  | 8 mm AF Box Spanner   | £3  |
| 11BA special      | £3  |                       |     |
| Full Set BA sizes | £30 | Full Set Metric Sizes | £27 |





## BA Open Ended Spanners

Industrial quality spanners in metric and BA sizes.

|                                 |        |
|---------------------------------|--------|
| Open ended 0-11BA set           | £20.00 |
| Open ended Metric set 3.2mm-8mm | £20.00 |



## Bakers Fluid flux

Liquid flux for soft soldering, supplied in 100ml bottle price £5.00, N.B. Baker's fluid is corrosive and not available by post. After soldering flux residues should be washed off with soapy water.

## Blanking Plugs

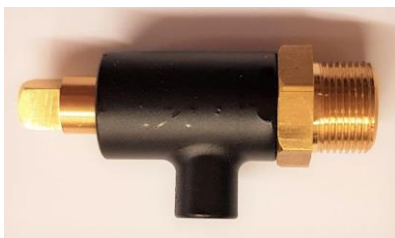
Suitable for plugging boiler bushes during hydraulic tests.



|           |       |           |       |
|-----------|-------|-----------|-------|
| 3/16 x 40 | £1.30 | 3/8 x 40  | £2.00 |
| 1/4 x 40  | £1.60 | 3/8 x 32  | £2.00 |
| 1/4 x 32  | £1.60 | 7/16 x 26 | £2.00 |
| 5/16 x 32 | £1.80 | 1/2 x 26  | £2.00 |
| 5/16 x 26 | £1.80 | 5/8 x 26  | £3.50 |
| 3/8 x 26  | £2.00 |           |       |

## Blow Down valves

Available with a wide range of standard threads



|           |        |                        |        |
|-----------|--------|------------------------|--------|
| 1/4 x 40  | £10.50 | 3/8 x 32               | £11.50 |
| 5/16 x 26 | £11.50 | 3/8 x 40               | £11.50 |
| 5/16 x 32 | £11.50 | 1/2 x 26               | £13.50 |
| 5/16 x 40 | £11.50 | 1/4 BSP                | n/a    |
| 3/8" x 26 | £11.50 | 1/4 BSP (P.B. special) | £40.80 |

## Blow down spanner

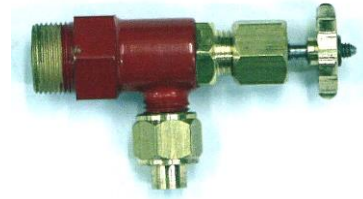
Suitable for 5/16 and 3/8

blowdowns- £6.50



## Blower valves

|            |                |        |
|------------|----------------|--------|
| 1/4" x 40  | 5/32" x 40 int | £13.80 |
| 5/16" x 40 | 3/16" x 40 int | £14.10 |
| 3/8" x 40  | 1/4" x 40 int  | £14.10 |



## Boiler Banding

Brass boiler banding 3/8" wide as used on our locos, Per foot £2.00

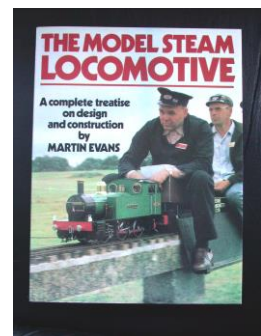
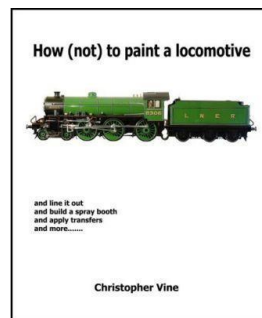
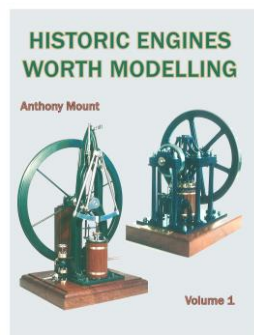
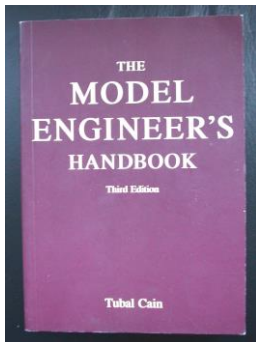
## Boiler Lagging

|                                   |              |
|-----------------------------------|--------------|
| Boiler lagging 2mm (0.080") thick | £3.50 per ft |
| Boiler lagging 3mm (0.120") thick | £4.50 per ft |

High temperature (1200 deg C) ceramic matting in 2mm or 3mm thickness 500mm wide, cut length to your requirement.

## Books

We stock a wide range of model engineering related books, including many classics. 'The Model Engineer's Reference Book' is a must for every model engineer. Martin Evan's Treatise on Miniature Locomotive Construction is a valuable reference book for loco builders and the various books on building Stuart stationary engines are essential to novice builders of those models. George Thomas' work on toolmaking is legendary and even for those who 'want to get on with the job' the books are worth reading. We list here a few of the more popular books normally in stock, but with many others available, we encourage you to peruse our shelves at the exhibitions or contact us to discuss your requirements.



### STUART ENGINE CONSTRUCTION BOOKS

|                                      |       |
|--------------------------------------|-------|
| The Stuart Beam Engine               | £9.25 |
| The No. 9 Engine                     | £9.25 |
| Building the Vertical Engine [No.10] | £9.25 |
| The Victoria                         | £9.25 |
| The Williamson                       | £9.25 |

### CONSTRUCTION BOOKS

|  |        |
|--|--------|
| Building the Beam Engine 'Mary'          | £6.95  |
| Miniature Car Construction               | £5.95  |
| Building the Overcrank 'Georgina'        | £6.95  |
| Model Boiler Making [Pearce]             | £5.95  |
| Model Boilers and Boiler Making [Harris] | £14.95 |
| The Quorn Tool and Cutter Grinder        | £12.95 |
| Rob Roy and William                      | £14.95 |

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For All your Model Engineering Requirements:

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Web: [www.pollymodelengineering.co.uk](http://www.pollymodelengineering.co.uk)

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### **I.C.ENGINES,HOT AIR ENGINES,& OTHER PRIME MOVERS**

|  |        |
|--|--------|
| The Stirling Engine Manual                   | £27.95 |
| The Atom Minor Mk 111                        | £5.95  |
| Gas and Oil Engines Simply Explained         | £5.95  |
| Model Petrol Engines [Westbury]              | £11.95 |
| Small Internal Combustion Engines [Westbury] | £9.50  |
| Magnetos Simply Explained                    | £4.95  |
| Model Steam Turbines                         | £5.95  |
| Diesel Model Engines                         | £11.95 |
| Ignition Equipment                           | £12.50 |
| Model Petrol Engines                         | £11.95 |
| Model Jet Reaction Engines                   | £5.95  |
| Windmills and Wind Motors                    | £5.95  |

### **LATHE & WORKSHOP PRACTICE**

|  |        |
|--|--------|
| Beginners Guide to the Lathe             | £5.95  |
| Know Your Lathe                          | £6.95  |
| Pattern Making [Camm]                    | £3.95  |
| Grinding, Lapping and Honing             | £5.95  |
| Know Your Materials – Metals             | £5.50  |
| Gear Wheels and Gear Cutting             | £5.95  |
| Bent Iron Work                           | £5.95  |
| Painting and Lining Models               | £5.95  |
| How to Paint a Locomotive [C.Vine]       | £19.95 |
| Gear Wheels Simply Explained             | £5.95  |
| Screw Cutting for Engineers              | £5.95  |
| The Model Engineers Handbook             | £9.95  |
| Model Engineers Workshop Manual [Thomas] | £25.95 |
| Workshop Techniques [Thomas]             | £26.95 |
| The Art of Wood turning                  | £9.95  |

### **LOCOMOTIVE & STEAM RELATED**

|  |                        |
|--|------------------------|
| Baker Valve Gear                           | £5.50                  |
| The Live Steam Book LBSC                   | £15.95                 |
| The Locomotive Simply Explained            | £5.95                  |
| The Model Steam Locomotive [Martin Evans]  | currently out of print |
| Locomotive Valves and Valve Gears          | £13.95                 |
| Locomotives Valves Setting                 | £6.95                  |
| Locomotive Handbook                        | £5.95                  |
| Locomotive Injectors                       | £8.95                  |
| Beginners Guide to Model Steam Locomotives | £15.95                 |
| Slide Valve Simply Explained               | £4.95                  |

### **CATALOGUES**

|  |                       |
|--|-----------------------|
| Polly Range of Locomotive Kits   | £2.00 [£3.00 by post] |
| Bruce Engineering Model Engineers Supplies<br>(note: can be downloaded from website free of charge)] | £2.00 [£2.50 by post] |
| Stuart Models  | £6.00                 |

### **STATIONARY ENGINES**

|  |        |
|--|--------|
| Historic Engines Worth Modelling Vol.1 [A.Mount] | £12.95 |
| Historic Engines Worth Modelling Vol.2 [A.Mount] | £12.95 |
| Care & Management of Stationary Steam Engines    | £5.95  |

### **MISCELANEOUS**

|  |        |
|--|--------|
| Flash Steam [Westbury]   | £6.95  |
| BOOKS CONTD:   |        |
| Steam Wagon Manual   | £7.95  |
| Model Stationary Engine Design & Construction                  | £5.95  |
| Garden Railways  | £6.95  |
| Meccano No.10 Manual   | £11.95 |
| The Portable Steam Engine                                      | £14.95 |
| Drills, Taps and Dies [Tubul Cain]                             | £6.95  |
| Myford Series 7 Manual   | £7.95  |
| Milling – A Complete Course                                    | £6.95  |
| Vertical Milling in the Home Workshop                          | £6.95  |
| The Motorcyclist's Workshop                                    | £10.50 |
| Workshop Drawing [Tubul Cain]                                  | £6.95  |
| How to Read Workshop Drawings                                  | £5.95  |
| Simple Workshop Devices  | £6.95  |
| Workshop Wrinkles and Recipes                                  | £6.95  |
| Building 5"Gauge Wagons [BR steel 16 ton mineral<br>[D.Hewson] | £2.95  |
| Building 5"Gauge Wagons [LMS 20 ton goods brake<br>van]        | £2.95  |
| Making Clocks  | £6.95  |
| Evolution of the Steam Engine                                  | £5.95  |
| Meccano and Hornby Trains Catalogue [!933/34<br>reprod]        | £2.95  |
| Peter's Railway Vol 1  | £11.95 |
| Peter's Railway Vol 2 Moonlight Express                        | £11.95 |
| Peter's Railway Vol 3 Forgotten Engine                         | £11.95 |

## Brake Valves

In-house designed and manufactured vacuum or steam brake valve. £83.00



## Brake Vacuum Ejectors

Vacuum ejectors are suitable for continuously braked trains using the vacuum system.

|                                      |                       |
|--------------------------------------|-----------------------|
| Small ejector 1/8 x 5/32 x 5/32 pipe | £30.50                |
| Large ejector 3/16 x 1/4 x 1/4       | Currently unavailable |



## Brake Vacuum Limiters



Vacuum limiting valve used at the rear end of the train to limit vacuum. Adjustable 10-22" Hg. £20.00 each.

## Bronze Balls For non-return valves, etc.

|             |       |       |       |       |                |       |       |
|-------------|-------|-------|-------|-------|----------------|-------|-------|
| Pkts of ten |       |       | 3/16" | £2.90 | Price per ball | 3/8"  | £3.10 |
|             | 1/16" | £2.50 | 7/32" | £3.20 |                | 7/16" | £3.50 |
|             | 3/32" | £2.20 | 1/4"  | £4.05 |                | 1/2"  | £3.70 |
|             | 1/8"  | £2.15 | 9/32" | £6.50 |                |       |       |
|             | 5/32" | £2.20 | 5/16" | £7.00 |                |       |       |

## Buffers – GWR Style see Practical Scale Catalogue

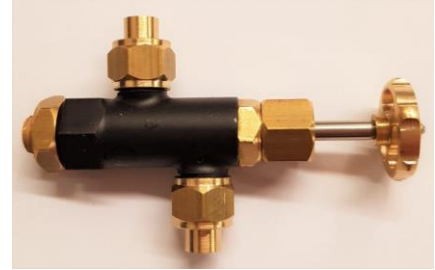
We manufacture complete sprung buffers in 5" and 7 1/4" gauge sizes for the more popular GWR buffers and offer lost wax castings for other styles. Full details in the Practical Scale catalogue.



## Bypass water valves

for floor or tank fitting, with stud for mounting.

|                    |        |
|--------------------|--------|
| 5/32" floor bypass | £15.50 |
| 3/16" floor bypass | £15.70 |
| 1/4" floor bypass  | £17.00 |



## Ceramic Burners

Models are available to suit a variety of small models, plus standard rectangular and circular types. Ceramic burner material, jets, etc are also available for DIY construction. Please note that in general these small burners are well suited to miniature locos (e.g. G0 and G1) and small stationary engine boilers, but they are unlikely to generate sufficient heat for passenger hauling locos. Supplied without pipework /jet\* unless stated.

|   |   |        |
|---|---|--------|
| 2 1/8" round                                | X | £44.00 |
| 2 5/8" round                                | X | £48.00 |
| 2.75" x 1"                                  | X | £36.00 |
| 2.75" x 2"                                  | X | £48.00 |
| 5 5/8" x 1"                                 | X | £50.00 |
| 5 5/8" x 2"                                 | X | £53.00 |
| Ceramic firetube burner for 28 & 35mm tubes | X | £36.00 |
| Mamod tractor, inc pipework + tank+ valve   |   | £89.00 |
| Mamod loco, inc pipework                    |   | £74.00 |
| Wilesco tractor, inc pipework               |   | £74.00 |
| 50 x 16mm Wilesco D18, etc                  | X | 31.00  |
| 120 x 18 Wilesco D20, D21, D22, D24, etc    | X | £42.00 |
| Gas tank to burner pipe 135 mm0             |   | £10.50 |
| Gas tank to burner pipe 275 mm              |   | £11.00 |
| Gas tank to burner pipe 450 mm              |   | £11.50 |



x – Burner only      \* - Jets to suit available separately

## Ceramic Plaque for Burners

Ceramic material easily cut to shape as used in our burners.

|                 |        |
|-----------------|--------|
| 5" x 7" x 7/16" | £19.50 |
|-----------------|--------|

## Chain for whistle etc

7 link chain £2.50 per m

12 link chain £2.00 per m



## Chequer Plate

Embossed aluminium sheets suitable for step plates etc.

1:16 nominal scale suitable for 3 1/2" gauge models, sheet approx. 10" x 2 1/2" £7.00 each

1:10 nominal scale suitable for 5" gauge models, sheet approx 10" x 2 1/2" £7.00 each

1:8 nominal scale suitable for 7 1/4" gauge models, sheet approx 8" x 16" £15.00 each

## Comsol high temperature soft solder

3mm diameter wire, melts at significantly higher temperature (295 deg C) compared to normal soft solder, facilitating more complex assemblies.

| Over 3m less 10% | per metre | 0.5kg reel complete |
|------------------|-----------|---------------------|
| 3mm dia wire     | £6.50     | £56.50              |

**N.B. Due to the lead content, this is a restricted product only available to professional users who provide sufficient documents**

## Check valves (non-return valves or clacks) for oil, water or steam

In line pipe fitting and threaded body boiler fittings (90 degree). Oil check valves are fitted with springs to ensure the seating of the valves with the higher viscosity of the oil. Backhead fitting 'clacks' are 90 degree type.

|   |        |
|---|--------|
| <b>Oil pump 1/8" pipe</b>                 |        |
| In line type                              | £10.00 |
| <b>Oil 90deg for steam pipe 1/8" pipe</b> |        |
| 1/8" pipe to 1/4" x 40 thread             | £10.00 |
| 1/8" pipe to 3/16" x 40 thread            | £10.00 |
| <b>water feed 90deg clacks</b>            |        |
| 3/32" pipe 3/16 x 40                      | £10.50 |
| 1/8" pipe 1/4 x 40                        | £10.50 |
| 5/32" pipe 1/4 x 40                       | £10.50 |
| 3/16 pipe 5/16x32                         | £12.00 |
| 1/4 pipe 3/8 x 32                         | £14.30 |
| 1/4 pipe 7/16x26                          | £14.40 |
| 1/4 pipe 1/2 x 26                         | £14.40 |
| 5/16 pipe 1/2 x 26                        | £20.30 |
| 3/8 pipe 1/4 BSP                          | £22.40 |
| 3/8 pipe 1/2 x 26                         | £22.40 |
| <b>in line check valves</b>               |        |
| 1/8" pipe                                 | £10.00 |
| 5/32" pipe                                | £10.00 |
| 3/16" pipe                                | £11.50 |
| 1/4 pipe                                  | £12.00 |
| 5/16" pipe                                | £15.25 |



## Chime Whistles

3 & 4 note chime whistles in polished brass, 2 sizes available. In polished brass, these chime whistles both look and sound very effective. Suitable for narrow gauge locomotives or steam road vehicles.

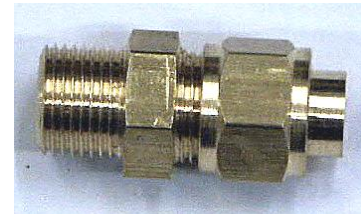
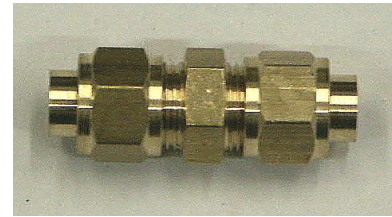
|                               |        |
|-------------------------------|--------|
| Small Chime Whistle           | £56.00 |
| Large Chime Whistle           | £81.00 |
| Whistle valve (large) 3/8"x32 | £27.50 |
| Whistle valve small 5/16 x 32 | £24.00 |



## Connectors (Pipe)

pipe to pipe, bulkhead and pipe to thread connectors.

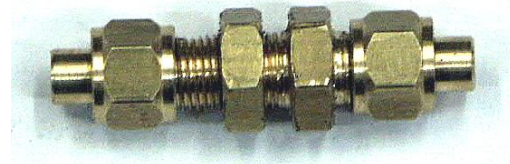
|  |        |
|--|--------|
| 3/32" pipe to pipe                           | £3.10  |
| 1/8" pipe to pipe                            | £4.10  |
| 5/32" pipe to pipe                           | £4.10  |
| 3/16" pipe to pipe                           | £4.45  |
| 1/4" pipe to pipe                            | £5.10  |
| 1/8" pipe to 3/16" pipe                      | £4.45  |
| 5/32" pipe to 3/16" pipe                     | £4.45  |
| 3/16" pipe to 1/4" pipe                      | £5.10  |
| 3/32" pipe x 3/16" 40 pipe to thread         | £2.90  |
| 1/8" pipe x 1/4" 40 pipe to thread           | £3.10  |
| 5/32" pipe x 1/4" 40 pipe to thread          | £3.10  |
| 5/32" pipe x 1/4" 32 pipe to thread (Stuart) | £11.80 |
| 3/16" pipe x 5/16" 32 pipe to thread         | £3.50  |
| 1/4" pipe x 3/8" 32 pipe to thread           | £4.10  |



## Connectors Bulkhead

Supplied with additional nut to clamp body to bulkhead.

|            |       |
|------------|-------|
| 1/8" pipe  | £5.10 |
| 5/32" pipe | £5.70 |
| 3/16" pipe | £5.70 |
| 1/4" pipe  | £6.60 |



## Connectors – loco to tender

Quick release pressure connectors for the hand pump and silicone rubber tubes for injector feed, etc. In sizes to suit 3 1/2" / 5" gauge and 7 1/4" gauge locos.

|                   |        |
|-------------------|--------|
| 3 1/2" / 5" gauge | £28.00 |
| 7 1/4" gauge      | £31.00 |

Supplied with 2 lengths of tube.

Additional small crimps £1.50 each, Additional large crimps £2.00 each

Small high pressure hose £1.70 per foot (suitable for 3/16" pipe)

Large high pressure hose £2.50 per foot (suitable for 1/4" pipe)



## Copper washers

|                              |       |                                       |        |
|------------------------------|-------|---------------------------------------|--------|
| 4 thicknesses in each packet |       |                                       |        |
| 1/8"                         | £2.60 | 5/16"                                 | £3.10  |
| 5/32"                        | £2.70 | 3/8"                                  | £3.35  |
| 3/16"                        | £2.90 | 7/16"                                 | £3.60  |
| 7/32"                        | £2.90 | 1/2"                                  | £3.75  |
| 1/4"                         | £3.00 | Assorted. Pkt of 40 sizes 3/16 – 1/2" | £10.30 |

Pkts of assorted thickness, for steam fittings etc, 20 per pkt, 5 of each thickness

## Couplings

### Scale forged couplings

Four designs to suit the main railway companies, GWR, LMS & LNER/BR plus hook and chain coupling for freelance, industrial locos and loose coupled wagons. All available in 3 1/2", 5" and 7 1/4" gauge versions.

#### BR&LNER coupling and hook

|              |        |
|--------------|--------|
| 3.5" gauge   | £43.00 |
| 5" gauge     | £53.00 |
| 7 1/4" gauge | £60.60 |

#### GWR Coupling and hook

|              |        |
|--------------|--------|
| 3.5" gauge   | £43.00 |
| 5" gauge     | £53.00 |
| 7 1/4" gauge | £60.60 |

#### LMS coupling and hook

|              |        |
|--------------|--------|
| 3.5" gauge   | £43.00 |
| 5" gauge     | £53.00 |
| 7 1/4" gauge | £60.60 |

#### Hooks and chains

|              |        |
|--------------|--------|
| 3.5" gauge   | £30.35 |
| 5" gauge     | £33.00 |
| 7 1/4" gauge | £39.70 |



**H&C      GWR      LNER      LMS**

**Note:** Couplings and hooks are supplied as complete assemblies, we do not supply the couplings separately.

## Cylinder Drain Cocks

Locomotive type drain cocks in sets of 4 (2 left hand 2 right hand) in various sizes and threads, Stuart models types also available. See Practical Scale catalogue for fine scale GWR types, 5" & 7 1/4" gauge.

| Loco type              | Set 4  | Stuart Models type | Each   |
|------------------------|--------|--------------------|--------|
| 1/8" x 40              | £27.00 |                    |        |
| 5/32" x 40             | £27.00 | 5/32" x 40 (71960) | £15.40 |
| 3/16" x 40             | £27.00 | 3/16" x 40 (71961) | £17.55 |
| 1/4" x 40              | £27.00 | 1/4" x 32 (71962)  | £19.65 |
| 5/16" x 32             | £28.00 |                    |        |
| 5/16" x 40             | £28.00 |                    |        |
| 3/16" x 40 Polly Style | £28.00 |                    |        |





## Cylinder Hones and spare stones for finishing bores

4 sizes to suit a range of bores from ½" to 7" diameter. 3 in 1 set also available. See also honing oil.

|                      |        |
|----------------------|--------|
| E1 hone 1/2 - 1 ¼    | £15.50 |
| E1 spare stones      | £4.70  |
| E2 hone 1 3/16 – 1 ¾ | £16.50 |
| E2 spare stones      | £5.70  |
| E3 hone 1 9/16 – 3"  | £21.00 |
| E3 spare stones      | £8.50  |
| E4 hone 2" – 7"      | £33.00 |
| E4 spare stones      | £11.50 |
| 3 in 1 hone set      | £33.50 |



## Die stocks

to suit 13/16" and 1" diameter dies.

|                        |       |
|------------------------|-------|
| to suit 13/16" OD dies | £4.65 |
| to suit 1" OD dies     | £5.90 |

## Dies for thread cutting – see Taps and Dies

## Drills

full range of quality high speed steel twist drills in metric sizes plus centre drills (Slocum drills).

| centre drills (slocum) |       |            |       |
|------------------------|-------|------------|-------|
| No.1 1/8"              | £2.50 | No.4 5/16" | £3.40 |
| No.2 3/16"             | £2.80 | No.5 7/16" | £6.00 |
| No.3 1/4"              | £3.30 |            |       |

| Imperial fractions |       |  |        |       |
|--------------------|-------|--|--------|-------|
| 1/32"              | £1.30 |  | 9/32"  | £2.30 |
| 3/64"              | £1.20 |  | 19/64" | £3.10 |
| 1/16"              | £1.20 |  | 5/16"  | £2.80 |
| 5/64"              | £1.20 |  | 21/64" | £3.70 |
| 3/32"              | £1.20 |  | 11/32" | £4.80 |
| 7/64"              | £1.20 |  | 23/64" | £5.00 |
| 1/8"               | £1.20 |  | 3/8"   | £4.50 |
| 9/64"              | £1.40 |  | 25/64" | £5.80 |
| 5/32"              | £1.40 |  | 13/32" | £5.20 |
| 11/64"             | £1.20 |  | 27/64" | £6.50 |
| 3/16"              | £1.30 |  | 7/16"  | £6.50 |
| 13/64"             | £1.60 |  | 29/64" | £7.50 |
| 7/32"              | £1.40 |  | 15/32" | £7.00 |
| 15/64"             | £2.00 |  | 31/64" | £9.00 |
| 1/4"               | £1.80 |  | 1/2"   | £8.00 |
| 17/64"             | £2.40 |  |        |       |

| Metric Series Drills |       |     |       |      |       |
|----------------------|-------|-----|-------|------|-------|
| 1                    | £1.10 | 4.3 | £1.50 | 7.6  | £2.30 |
| 1.1                  | £1.20 | 4.4 | £1.70 | 7.7  | £3.00 |
| 1.2                  | £1.20 | 4.5 | £1.30 | 7.8  | £3.10 |
| 1.3                  | £1.20 | 4.6 | £1.50 | 7.9  | £3.20 |
| 1.4                  | £1.20 | 4.7 | £1.50 | 8    | £2.70 |
| 1.5                  | £1.20 | 4.8 | £1.70 | 8.1  | £3.30 |
| 1.6                  | £1.20 | 4.9 | £1.60 | 8.2  | £3.30 |
| 1.7                  | £1.20 | 5   | £1.40 | 8.3  | £3.50 |
| 1.8                  | £1.20 | 5.1 | £1.70 | 8.4  | £3.50 |
| 1.9                  | £1.20 | 5.2 | £1.70 | 8.5  | £3.70 |
| 2                    | £1.20 | 5.3 | £1.80 | 8.6  | £3.70 |
| 2.1                  | £1.20 | 5.4 | £1.80 | 8.7  | £3.80 |
| 2.2                  | £1.20 | 5.5 | £1.80 | 8.8  | £3.80 |
| 2.3                  | £1.20 | 5.6 | £1.90 | 8.9  | £3.90 |
| 2.4                  | £1.20 | 5.7 | £1.90 | 9    | £3.40 |
| 2.5                  | £1.20 | 5.8 | £2.00 | 9.1  | £4.10 |
| 2.6                  | £1.20 | 5.9 | £2.00 | 9.2  | £4.20 |
| 2.7                  | £1.20 | 6   | £1.80 | 9.3  | £4.30 |
| 2.8                  | £1.20 | 6.1 | £2.10 | 9.4  | £4.30 |
| 2.9                  | £1.20 | 6.2 | £2.10 | 9.5  | £4.50 |
| 3                    | £1.20 | 6.3 | £2.20 | 9.6  | £4.50 |
| 3.1                  | £1.20 | 6.4 | £2.20 | 9.7  | £4.70 |
| 3.2                  | £1.20 | 6.5 | £2.20 | 9.8  | £4.70 |
| 3.3                  | £1.20 | 6.6 | £2.30 | 9.9  | £4.80 |
| 3.4                  | £1.30 | 6.7 | £2.40 | 10   | £4.10 |
| 3.5                  | £1.30 | 6.8 | £2.10 | 10.5 | £4.50 |
| 3.6                  | £1.20 | 6.9 | £2.50 | 11   | £5.00 |
| 3.7                  | £1.20 | 7   | £2.10 | 11.5 | £5.50 |
| 3.8                  | £1.40 | 7.1 | £2.40 | 12   | £6.10 |
| 3.9                  | £1.30 | 7.2 | £3.20 | 12.5 | £6.70 |
| 4                    | £1.40 | 7.3 | £2.50 | 13   | £7.30 |
| 4.1                  | £1.20 | 7.4 | £2.60 |      |       |
| 4.2                  | £1.20 | 7.5 | £2.60 |      |       |

## Dynamos:

Ideal for use with miniature traction engines or stationary steam engines



Major Dynamo:- 18 watt output (max) 1-12 volts, speed range 1000 to 12000 rpm; suitable for use with medium sized stationary engines, e.g. Stuart 10V & S50. Also suitable for 1" scale Showman's traction engines. Gives good output at reasonable speeds. £56.50

## Elbows

Pipe elbows in sizes from 3/32" to 1/4" pipe.

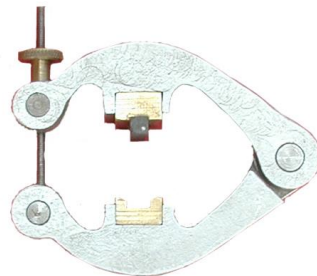
|       |       |  |       |        |
|-------|-------|--|-------|--------|
| 3/32" | £7.50 |  | 5/16" | £12.00 |
| 1/8"  | £7.30 |  | 3/8"  | £15.00 |
| 5/32" | £7.30 |  |       |        |
| 3/16" | £7.70 |  |       |        |
| 1/4"  | £7.90 |  |       |        |



## External Hones

2 sizes of kit available, for up to 1" diameter or up to 2" diameter. Spare stones also available. These kits contain castings and materials, including stones.

|                       |        |
|-----------------------|--------|
| No.1                  | £19.40 |
| extra stone & carrier | £4.65  |
| No.2                  | £28.75 |
| extra stone & carrier | £4.65  |



## Fibre washers (pack of 10)

|    |      |       |     |      |       |
|----|------|-------|-----|------|-------|
|    |      |       | M6  | 1/4  | £0.75 |
| M3 | 1/8  | £0.75 | M8  | 5/16 | £0.75 |
| M4 | 5/32 | £0.75 | M10 | 3/8  | £1.00 |
| M5 | 3/16 | £0.75 | M12 | 1/2  | £1.00 |

## Filler nozzles, valves, jets, etc

Nozzles for refillable gas container (fits screw top canisters); gas canister valve, gas filler valves (Ronson type), gas jets,

|  |                          |        |
|--|--------------------------|--------|
| Filler Nozzle for refillable gas container | fits screw top canisters | £16.00 |
| Gas Canister Valve                         | ¼ x 32 thread            | £22.00 |
| Gas filler valves, Ronson type             |                          | £6.00  |
| Gas jets (All have 1BA thread)             | Sizes 5, 8, 10, 15       | £4.00  |



## Firing Shovel & Poker Sets

Firing irons for 3 ½" gauge, 5" gauge and 7 ¼" gauge locos, plus the 5" gauge Polly shovel/poker sets. We also stock the miniature 5" gauge shovels from Doug Hewson.

|                                   |        |
|-----------------------------------|--------|
| 3 1/2" g 7/8" wide x 10" Brass    | £26.50 |
| 5" g 1 3/16" wide x 10 3/4" Brass | £28.50 |
| 7 1/4" g 1 5/8" wide x 15" Brass  | £29.50 |
| 5" g Doug Hewson in brass         | POR    |
| 5" g Polly shovel and poker set   | £18.00 |
| Polly type extra long             | £20.00 |



## Flu brushes

We stock a wide range of brushes for cleaning tubes in your boiler, available in both bristle and bronze.

| <b>Bristle</b> |       |  | <b>Bronze</b> |       |
|----------------|-------|--|---------------|-------|
| ¼"             | £3.70 |  | ¼"            | £4.70 |
| 5/16"          | £3.70 |  | 5/16"         | £4.70 |
| 3/8"           | £4.00 |  | 3/8"          | £5.00 |
| 7/16"          | £4.20 |  | 7/16"         | £5.20 |
| ½"             | £4.20 |  | ½"            | £5.20 |
| 5/8"           | £4.50 |  | 5/8"          | £5.50 |
| ¾"             | £4.50 |  | ¾"            | £5.50 |
| 1"             | £4.70 |  | 1"            | £5.70 |
|                |       |  |               |       |





## Fluxes

|                        |        |
|------------------------|--------|
| <b>per 250 grammes</b> |        |
| General Purpose Flux   | £13.00 |

## Gas tanks (refillable) in three sizes.

These tanks are primarily intended for use with small marine, rail or stationary applications such as steam cranes where a large gas tank or piping would be out of place. Made of non-sparking brass and copper construction and silver soldered, the tanks are available in 4 sizes. For use with up to 60/40

|          |                   |            |        |
|----------|-------------------|------------|--------|
| Mini     | As per Mamod, etc | 1.75" high | £38.00 |
| Small    | 2" diameter       | 1.75" high | £54.00 |
| Standard | 2" diameter       | 3.5" long  | £58.00 |
| Large    | 2" diameter       | 5" long    | £69.30 |

Butane/Propane mix. Test pressure 360psi.



Supplied with test certificate.

Gas refill adapter also available, used to fill the above tanks from self sealing disposable gas cartridges, see above.

## Gasket paper

In **various** thicknesses for steam, oil and water. Per piece approx 12" square.

|   |       |                                   |       |
|---|-------|-----------------------------------|-------|
| Asbestos free, for steam 0.5mm (0.020") | £2.50 | oil and water type paper (0.004") | £1.50 |
|---|-------|-----------------------------------|-------|

## Gauge Glass Plain and Red Line

| Plain metric per foot |       |      |       | Red Line per 6" |       |      |       | Blue line per 6" |       |
|-----------------------|-------|------|-------|-----------------|-------|------|-------|------------------|-------|
| 4mm                   | £2.80 | 8mm  | £3.25 | 4mm             | £4.00 | 8mm  | £4.00 | 6.5mm            | £4.20 |
| 5mm                   | £3.00 | 10mm | £3.60 | 5mm             | £4.00 | 9mm  | £4.00 |                  |       |
| 6mm                   | £3.25 | 14mm | £5.00 | 6mm             | £4.00 | 10mm | £4.00 |                  |       |
| 7mm                   | £3.25 |      |       | 7mm             | £4.00 |      |       |                  |       |

## Gauge glass cutter £8.00 each

Please visit our Facebook page for a demonstration video



## Globe Valves – see also Steam Stop Valves

|       |        |       |        |
|-------|--------|-------|--------|
| 3/32" | £19.50 | 1/4"  | £20.00 |
| 1/8"  | £18.50 | 5/16" | £45.80 |
| 5/32" | £18.50 | 3/8"  | £48.80 |
| 3/16" | £19.00 |       |        |

Suitable for steam or water, available in straight (180 degree) or right angle (90 degree), please specify which.



## Globe valves – Stuart Style – 180 degree or 90 degree

|                         |        |
|-------------------------|--------|
| 3/16" x 40 – 5/32" pipe | £35.65 |
| 1/4" x 32 – 3/16" pipe  | £35.65 |
| 5/16" x 26 – 1/4" pipe  | £35.65 |

## Graphited Packing

In small quantities in various thicknesses.

|                               |       |
|-------------------------------|-------|
| <b>Approx. 600mm per pack</b> |       |
| square 3mm                    | £3.10 |
| 5mm                           | £3.75 |
| 1/4"                          | £3.75 |

Also available PTFE square packing suitable for loco pistons, 5mm square section 80p per inch.

## Graphited String

|                                |       |
|--------------------------------|-------|
| per hank (approx 2') 1/16" dia | £1.00 |
|--------------------------------|-------|

## Hand pumps

Pipe to pipe versions for footplate use (illustrated) or tank (tender) versions for submerged use.

| Ram size | Pipe size | Tank type | Pipe-Pipe type |
|----------|-----------|-----------|----------------|
| 1/4"     | 1/8"      | £33.00    | N/A            |
| 5/16"    | 1/8"      | £32.00    | £38.00         |
| 3/8"     | 5/32"     | £38.00    | £44.00         |
| 1/2"     | 3/16"     | £40.00    | £49.00         |
| 5/8"     | 1/4"      | £45.00    | £51.00         |
| 3/4"     | 3/8"      | £71.00    | £75.00         |

Hand feed pump castings for 1", inc ram material, O rings and SS balls, enquire for price



Pipe to pipe type



Tank Type

## Handrail Stanchions

for locomotives to suit 3 1/2" 5" and 7 1/4" models. Manufactured with threaded shank which may be screwed into smokebox or nutted to tank panels, etc. Prices per pack of 10

| Gauge               | Rod Size | Thread size | Price per 10 |
|---------------------|----------|-------------|--------------|
| 2 1/2" gauge        | 1/16     | M2          | £4.50        |
| 3 1/2" gauge        | 3/32     | 8BA         | £4.00        |
| 5" gauge            | 1/8      | 6BA         | £4.50        |
| 5" gauge extra long | 1/8      | 6BA         | £5.00        |
| 7 1/4" gauge        | 5/32     | 4BA         | £8.00        |



Fine scale GWR handrail stanchions, based on official works drawings. The short blind type (type 1) are suitable for

tender and footplate handrails where model engineers have always had to compromise and round off the end of the handrail. Type 3 are the special length stanchions used on the front of smokeboxes and are supplied individually as only one per loco is usually required.

| GWR 5" (6BA) per 10  | 1/8" bore  |  | GWR 7 1/4" (4BA) per 10 | 3/16" bore |
|----------------------|------------|--|-------------------------|------------|
| Type 1 Short Blind   | £7.50      |  | Type 1 Short Blind      | £9.50      |
| Type 2 Short Thru    | £7.50      |  | Type 2 Short Thru       | £9.50      |
| Type 3 Smoke box     | £1.00 each |  | Type 3 Smoke box        | £1.00 each |
| Type 4 Standard Thru | £7.50      |  | Type 4 Standard Thru    | £9.50      |

## Handwheel castings, in brass.

Available in 'standard' or locomotive style to suit models of various sizes. Our range includes some from Doug Hewson and larger wheels as used for hand brake on the Highland Railway tender.

|  |       |
|--|-------|
| <i>solid boss suitable for drill/tap</i>     |       |
| <b>standard (scale fluted)</b>               |       |
| 7/16" dia                                    | £2.10 |
| 1/2" dia                                     | £2.30 |
| 5/8" dia                                     | £2.60 |
| 3/4" dia                                     | £2.80 |
| <b>3 spoke type</b>                          |       |
| 1/2" dia tapped 8BA                          | £3.00 |
| 9/16" dia tapped 8BA                         | £3.00 |
| 5/8" dia tapped 6BA                          | £3.40 |
| 11/16" dia tapped 6BA                        | £3.80 |
| 3/4" dia tapped 6BA                          | £3.80 |
| 1" dia tapped 6BA                            | £4.80 |
| <b>loco type (4 spoke with side handle)</b>  |       |
| 1/2" dia                                     | £3.00 |
| 3/4" dia                                     | £3.70 |
| <b>Narrow Gauge handle (stainless steel)</b> |       |
| 5" gauge                                     | £2.50 |
| 7 1/4"                                       | £3.50 |



Highland railway hand brake wheel, 1.08" diameter 5 spoke £4.25 each, also available.



## Injectors

Our wide range of injectors includes horizontal and vertical types ranging from 11oz per minute to 60 Oz per minute. Unfortunately John Cashmore & Gordon Chiverton injectors are no longer available.

|                             |        |                           |        |             |           |
|-----------------------------|--------|---------------------------|--------|-------------|-----------|
| <b>Allchin injector</b>     | £58.50 |                           |        | Thread size | Pipe size |
| <b>Injectors Horizontal</b> |        | <b>Injectors Vertical</b> |        |             |           |
| No 2 (11 oz)                | £49.00 | <b>No 2 Vertical</b>      | £54.00 | 5/16x32     | 5/32"     |
| No.3 (16 oz)                | £49.00 | <b>No 3 Vertical</b>      | £54.00 | 5/16x32     | 3/16"     |
| No.4 (22 oz)                | £49.00 | <b>No 4 Vertical</b>      | £54.00 | 5/16x32     | 3/16"     |
| No.5 (2 2/3 pt)             | £54.00 | <b>No 5 Vertical</b>      | £66.00 | 3/8x32      | 1/4"      |
| No.6 (4 pt)                 | £54.00 | <b>No.6 vertical</b>      | £66.00 | 3/8x32      | 1/4"      |
| No.7 (6 pts)                | £72.00 | <b>No.7 Vertical</b>      | £70.00 | 1/2x26      | 5/16"     |
| No.8 (one gallon)           | £72.00 | <b>No 8 vertical</b>      | £85.00 | 9/16x26     | 3/8"      |



## Injector Filter

Pictured right, 5/16" x 32 or 3/8" x 32, both £15 each



## Locomotive and Traction Engine Nameplates and Numberplates

We regularly produce machined nameplates for our Polly locomotive customers and these nameplates can be made in sizes to suit other narrow gauge models in 5" and 7 1/4" gauge or to suit traction engines. The thickness of the brass plate used, gives the impression of a substantial cast plate, something which cannot be achieved with an etched plate. We are also able to supply some cast numberplates for GWR locomotives and some other plates. Since plates are made to order, there may be a significant lead time.



Price Guide: 5" gauge £20 + £10 per letter/number (minimum 2 letters)

7 1/4" gauge £30 + £10 per letter/number (minimum 2 letters)

Please enquire with your requirements.

## Loco Lamps



Fine scale miniature loco lamps to suit LMS, GWR(illustrated) or BR/LNER styles  
5" gauge £21.00 each, 7 1/4 gauge £34.50 each.  
Lamps are supplied unpainted. Lens can be fixed using various glues including Uhu, Araldite (epoxy) & Bostik Multipurpose glue.

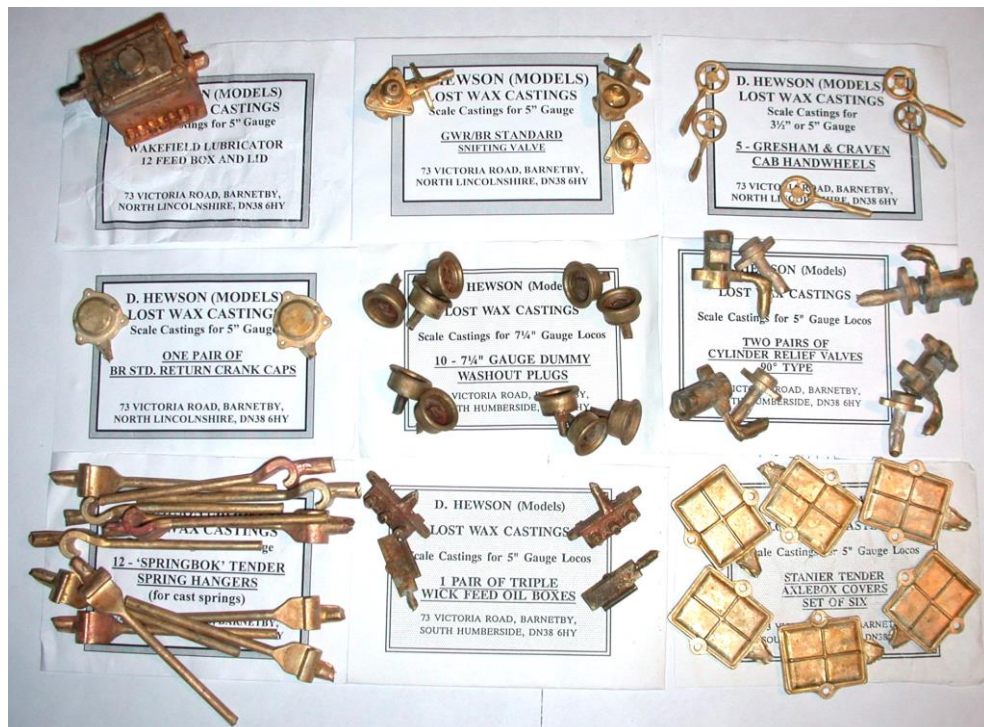




## Lost Wax Castings and Accessories from Doug Hewson



Examples of the popular accessories and lost wax castings by Doug Hewson which are normally available from Polly. Firing shovels, tea cans, oil cans, vacuum brake hoses and steam pipes are particularly popular. Enquire for availability of other items.



## Loctite Products

As official Loctite distributors, we stock a range of popular Henkel-Loctite products, for thread sealing, bearing retaining, wheel fixing, etc. see Technical Note on our website and Henkel-Loctite website for detailed application notes. Trade enquiries welcome for these and other Loctite products.



|                          |   |        |
|--------------------------|---|--------|
| Loctite 2400 5ml bottle  | Sealing and aligning boiler fittings<br>Replaces Loc'n'Seal   | £5.00  |
| Multi-gasket 574         | For most steam and i/c engine joints  | £22.00 |
| Superclean 7061          | For preparation of surface prior to assembly  | £14.00 |
| Loctite 641 10 ml bottle | Retaining compound, fixing of studs and bearings in housings  | £9.00  |
| Loctite 542 10 ml bottle | Thread sealant for piping systems oil/water/air.  | £9.00  |
| Loctite 603 10 ml bottle | Retaining compound for high strength assembly, wheels, etc., replaces 601 and is more oil tolerant with higher strength | £9.00  |
| Loctite 290 10 ml bottle | Penetrating thread sealant for fixing after assembly.   | £9.00  |
| Loctite 243 10 ml bottle | Medium strength for thread locking of nuts  | £9.00  |

## Lubricants, Steam Oil and cutting Oils

steam oil (1000sae and 460sae), slideway lubricant, cutting and tapping fluid, soluble oil and honing oil. The thinner grade steam oil (460) is suitable for smaller (e.g. gauge 1) locos.

|                               |       |                                 |       |
|-------------------------------|-------|---------------------------------|-------|
| Steam Oil 1000 grade ½ litre  | £5.50 | Soluble Oil 1 litre             | £8.80 |
| Steam Oil 1000 grade 1 litre  | £8.80 | Cutting & tapping fluid 1 litre | £8.80 |
| Steam Oil 460 grade 1/2 litre | £5.50 | Slideway oil 1/2litre           | £5.50 |
| Hone Oil 1/2 litre            | £6.50 | WD40 Aerosol Can 200 ml         | £3.75 |

## Lubricators

standard ratchet type lubricators with various tank sizes, including double pump type. Lubricator mechanisms and roller clutches or ratchet components for use in your own tank.

|  |        |
|--|--------|
| <b>lubricator ratchet type</b>         |        |
| lubricator 1"x1"                       | £58.00 |
| lubricator 1.25"x1.25"                 | £56.00 |
| lubricator 1.25" x 2"                  | £58.00 |
| lubricator 2x2 twin                    | £85.00 |
| Lubricator mechanism only single       | £40.00 |
| Lubricator mechanism only double       | £62.00 |
| <b>Lubricator Clutchless 1.25" Sq.</b> |        |
| Single ram                             | £50.00 |
| Double ram                             | £54.00 |
| <b>lubricator roller clutches</b>      |        |
| 3mm ID x 6.5mm OD per pair             | £14.00 |
| <b>Ratchets/Pawls</b>                  |        |
|  | £8.00  |
| <b>lubricator displacement type</b>    |        |
| Stuart type 1/4 x 32tpi thread         | £53.90 |
| <b>Hydrostatic lubricators</b>         |        |
| Single glass sight feed                | N/A    |
| Double glass sight feed                | N/A    |
| Triple glass sight feed                | N/A    |
| Spare glass 12mm diameter              | £5.00  |



## Marking out blue – £5.50 per 100ml bottle

Blue Layout Fluid used to scribe sharp, clear, precise lines. When applied, our layout fluid provide a uniform deep blue colour that prevents glare and dries in minutes. Layout Fluid creates an extremely thin film which adds practically no thickness to the work piece and remains flexible without cracking and chipping.

Marking out blue is corrosive and not available by post.

## Metal – Bar Stock

We stock a large range of metals. The materials and sizes listed below are normally held in stock. Other materials and sizes may be available if used in our own manufacture. Metals are heavy and thus expensive to post, especially in longer lengths. Customers wanting longer lengths may be able to collect from the workshop or arrange to collect from an exhibition.

### Brass bar

In round, square, rectangular and hexagon sections in a wide variety of sizes. Longer lengths on request for collection from workshop or exhibitions. Max length for postage two feet.

| <i>1ft lengths</i> |        |               |        |                    |        |                |        |
|--------------------|--------|---------------|--------|--------------------|--------|----------------|--------|
| <b>Round</b>       |        | <b>Square</b> |        | <b>Rectangular</b> |        | <b>Hexagon</b> |        |
| 1/16"              | £1.00  | 1/8"          | £1.85  | 1/16 x 1/4"        | £1.00  | 3mm            | £1.75  |
| 3/32"              | £1.00  | 5/32"         | £1.85  | 1/8 x 1/4"         | £1.80  | 5/32"          | £1.75  |
| 1/8"               | £1.00  | 3/16"         | £1.85  | 1/8 x 3/8"         | £1.80  | 3/16"          | £1.90  |
| 5/32"              | £1.05  | 1/4"          | £2.40  | 1/8 x 1/2"         | £2.70  | 7/32"          | £2.10  |
| 3/16"              | £1.40  | 5/16"         | £2.80  | 1/8 x 3/4"         | £3.70  | 1/4"           | £2.10  |
| 7/32"              | £1.50  | 3/8"          | £3.80  | 1/8 x 1"           | £4.50  | 5/16"          | £2.80  |
| 1/4"               | £1.50  | 1/2"          | £6.50  | 3/16 x 1/2"        | £4.60  | 3/8"           | £3.30  |
| 9/32"              | £2.40  | 5/8"          | £9.50  | 1/4 x 1/2"         | £4.20  | 7/16"          | £3.90  |
| 5/16"              | £2.40  | 3/4"          | £14.00 | 1/4 x 3/4"         | £5.50  | 1/2"           | £5.20  |
| 3/8"               | £2.50  | 1"            | £23.00 | 1/4" x 1"          | £7.00  | 9/16"          | £6.50  |
| 7/16"              | £4.30  |               |        | 3/8 x 5/8"         | £6.20  | 5/8"           | £8.00  |
| 1/2"               | £5.00  |               |        | 1/2 x 3/4"         | £7.50  | 3/4"           | £11.50 |
| 9/16"              | £6.20  |               |        | 1/2 x 1"           | £12.40 | 1"             | £19.20 |
| 5/8"               | £8.00  |               |        |                    |        |                |        |
| 3/4"               | £10.50 |               |        |                    |        |                |        |
| 1"                 | £16.50 |               |        |                    |        |                |        |
|                    |        |               |        |                    |        |                |        |

### Brass Angle

From 1/4" to 1", standard length 2'      **Metric    Small Sizes    (thin section)**

| <b>2ft lengths</b> | Price  |  | <b>1metre lengths</b> | Price  |
|--------------------|--------|--|-----------------------|--------|
| 1/4"x1/4"x1/16"    | £4.40  |  | 2mm x 2mm x 0.4mm     | £6.30  |
| 5/16"x5/16"x1/16"  | £5.45  |  | 3mm x 3mm x 0.45mm    | £7.00  |
| 3/8"x3/8"x1/16"    | £5.80  |  | 4mm x 4mm x 0.5mm     | £9.80  |
| 1/2"x1/2"x1/16"    | £6.00  |  | 5mm x 5mm x 0.6mm     | £12.00 |
| 3/4"x3/4"x1/16"    | £9.00  |  | 6mm x 6mm x 1mm       | £13.80 |
| 1"x1"x1/16"        | £14.00 |  |                       |        |

## Brass 'half-round' Beading

Suitable for fitting to tanks and tenders. Note due to the manufacturing process sizes are nominal and measured size of stock is shown in the table. The difference is due to the slight flattening on the sides. When fitted to the model the beading should correspond well to the nominal size.

| Nominal Width | Price per ft |
|---------------|--------------|
| 1/16"         | £1.00        |
| 3/32"         | £1.00        |
| 3mm           | £1.50        |
| 5/32"         | £2.25        |
| 3/16"         | £2.50        |

## Brass sheet

Off-cuts normally available – standard thicknesses held in stock 0.5mm, 1.0mm, 1.2mm, 1.5mm, 2.5mm, 3mm. Sizes 1.2mm and below are CZ108 half hard bendable and 1.5mm and above are normally CZ120. Enquire for availability.

## Bronze Bar PB102 or Colphos

| Round hard drawn 12" length |        | Hexagon 12" length     |        |
|-----------------------------|--------|------------------------|--------|
| 1/8"                        | £2.00  | 5/32" colphos          | £2.10  |
| 5/32"                       | £2.00  | 1/4" 0.248/4BA colphos | £4.00  |
| 3/16"                       | £3.00  | .324" 2BA colphos      | £7.50  |
| 1/4"                        | £4.00  | 10.5mm/0BA colphos     | £11.00 |
| 5/16"                       | £5.00  | 17mm / 11/16" colphos  | £26.50 |
| 3/8"                        | £6.50  | 23mm                   | £52.00 |
| 1/2"                        | £10.00 | 1" colphos             | £56.00 |
|                             |        | 1/2", 3/4", 1" pb102   | n/a    |

## Bronze Bar PB660 - leaded round bar 12" lengths

| Round 12" length |        |  |      |        |
|------------------|--------|--|------|--------|
| 1/2"             | £8.00  |  | 20mm | £16.50 |
| 5/8"             | £11.00 |  | 1"   | £26.00 |

## Cast Iron – round bar, cut to length

| Per foot min order 3" |        |  |      |        |
|-----------------------|--------|--|------|--------|
|                       |        |  | 40mm | £16.50 |
| 25mm                  | £11.00 |  | 50mm | £24.00 |
| 30mm                  | £12.30 |  | 60mm | £30.00 |

## Copper Boiler Tube

4 1/2" OD £6 per inch.



## Copper tubing bending

Grade 1/16" to 3/8" diameter (plus some metric sizes)

| <i>bending grade per foot</i> |       |  |       |       |
|-------------------------------|-------|--|-------|-------|
|                               |       |  | 3/16" | £1.20 |
| 3/32"                         | £1.50 |  | 1/4"  | £1.40 |
| 1/8"                          | £1.00 |  | 5/16" | £2.60 |
| 5/32"                         | £1.10 |  | 3/8"  | £2.70 |

## Copper tubing Thin wall 1/16" to 1/4"

| <i>Thin Wall per foot</i> |       |  |       |       |
|---------------------------|-------|--|-------|-------|
|                           |       |  | 5/32" | £1.10 |
| 1/16"                     | £1.00 |  | 3/16" | £1.20 |
| 3/32"                     | £1.50 |  | 7/32" | £1.30 |
| 1/8"                      | £1.00 |  | 1/4"  | £1.40 |

## Copper Tubing Thick Wall

1/4" dia 16swg rated for 700 psi £3.65 per foot

3/8" dia 16swg £3.50 per foot

7/16" dia 20swg £4.00 per foot

## Silver Steel (round)

We stock genuine Stubbs silver steel in a wide range of imperial and metric sizes. This high carbon steel is ideal for making 'D' bits and other tooling and is readily hardened and tempered. Supplied 13" lengths.

|      | <b>Metric</b> |  |       |        |  | <b>Imperial</b> |       |        |        |
|------|---------------|--|-------|--------|--|-----------------|-------|--------|--------|
|      |               |  |       |        |  | 1/16"           | £1.00 | 9/32   | £3.60  |
| 2 mm | £1.00         |  | 8 mm  | £3.20  |  | 3/32"           | £1.00 | 5/16"  | £3.40  |
| 3 mm | £1.00         |  |       |        |  | 1/8"            | £1.00 | 11/32" | £4.00  |
| 4 mm | £1.30         |  | 10 mm | £5.00  |  | 5/32"           | £1.35 | 3/8"   | £4.50  |
| 5 mm | £2.35         |  |       |        |  | 3/16"           | £1.40 | 7/16"  | £6.00  |
| 6 mm | £2.40         |  | 12 mm | £11.50 |  | 7/32"           | £2.60 | 1/2"   | £7.10  |
| 7 mm | £2.90         |  | 20mm  | £24.20 |  | 1/4"            | £2.30 | 3/4"   | £20.10 |

## Stainless steel rod

Free cutting stainless rod, supplied in 1 foot lengths.

| round |        |  | hexagon |        |
|-------|--------|--|---------|--------|
| 1/16" | £1.00  |  | 5/32"   | £1.90  |
| 3/32" | £1.00  |  | 3/16"   | £2.10  |
| 1/8"  | £1.00  |  | 1/4"    | £3.10  |
| 4mm   | £1.10  |  | 5/16"   | £4.10  |
| 3/16" | £1.20  |  | 3/8"    | £6.70  |
| 7/32" | £1.60  |  | 7/16"   | £8.20  |
| 1/4"  | £1.40  |  | 1/2"    | £7.60  |
| 5/16" | £2.30  |  | 9/16"   | £9.40  |
| 3/8"  | £4.30  |  | 5/8"    | £10.30 |
| 7/16" | £6.00  |  | 3/4"    | £16.50 |
| 1/2"  | £6.40  |  |         |        |
| 9/16" | £9.40  |  |         |        |
| 3/4"  | £12.10 |  |         |        |
| 1"    | £15.60 |  |         |        |

## Steel Stock in round, hexagon and square

We stock a range of common sections. As manufacturers, we have a wider range of steel available than is practical to list. Please contact us if you have any specific requirements.

**Mild Steel** generally EN1A in 2ft lengths

| Size (dia or a/f) | Round | Square | Hexagon |
|-------------------|-------|--------|---------|
| 1/8"              | £1.00 |        |         |
| 5/32"             | £1.00 |        |         |
| 3/16"             | £1.50 |        |         |
| 7/32"             |       |        |         |
| 1/4"              | £1.20 | £3.80  | £5.60   |
| 5/16"             | £1.30 | £3.80  | £4.80   |
| 3/8"              | £1.70 | £4.10  | £5.50   |
| 7/16"             | £2.70 | n/a    |         |
| 1/2"              | £2.70 | £4.30  |         |
| 9/16"             | £2.70 |        |         |
| 5/8"              | £3.70 | £9.10  |         |
| 3/4"              | £6.25 | £10.70 | £9.20   |
| 7/8"              | £6.70 |        |         |
| 1"                | £7.95 | £15.30 | £10.60  |

Sections Bright **Mild Steel**: 2ft lengths

|                     |       |  |               |        |
|---------------------|-------|--|---------------|--------|
| 1/16" x 1/2"        | £2.60 |  | 3/16" x 3/4"  |        |
| 3/32" x 1/2"        | n/a   |  | 1/4" x 1/2"   | £4.80  |
| 1/8" x 1/4"         | £1.50 |  | 1/4" x 3/4"   | £5.30  |
| 1/8" x 3/8"         | £2.40 |  | 1/4" x 1"     | £6.30  |
| 1/8" x 1/2"         | £1.70 |  | 1/4" x 1 1/2" | £7.20  |
| 1/8" x 3/4"         | £3.20 |  | 1/4" x 2"     |        |
| 1/8" x 1"           | £5.50 |  | 3/8" x 5/8"   |        |
| 1/8" x 1 1/2"       | £5.80 |  | 3/8" x 1 1/4" | £6.40  |
| 1/8" x 2"           |       |  | 3/8" x 1 1/2" | £7.70  |
| 1/8" x 3"           | £5.80 |  | 1/2" x 1"     | £7.70  |
| 1/8" x 4"           | £6.70 |  | 1/2" x 1 1/2" | £9.60  |
| 3/16" x 3/8"        | £2.40 |  | 1/2" x 2"     | £12.50 |
| 3/16" x 1/2"        | £2.60 |  |               |        |
|                     |       |  |               |        |
| <b>Angle metric</b> |       |  |               |        |
| 12 x 12 x 3         | £8.60 |  | 16 x 16 x 3   | 10.30  |

N.B. Some small steel sizes are becoming increasingly difficult to obtain, enquire for availability.

## Spring steel

Price per foot length. Suitable for leaf springs. Supplied in normalised (soft) state, heat treatment information available

|             |       |
|-------------|-------|
| 3/8 x .040  | £1.00 |
| 7/16 x .032 | £1.00 |
| 7/16 x .040 | £1.00 |
| 1/2 x .040  | £1.00 |
| 1/2 x 2mm   | £2.00 |

## Metal Blacking – ‘BLACK-IT’ for Iron and Steel

The process is easy to apply and does not use heat or any toxic compounds. Typically, the time to BLACK a component is less than 15 minutes. After treatment, the component is ready for use or assembly. The surface finish of the component is unaffected and there are no changes to any dimensions. Once treated with the process the component's black finish is stable for ever! Finally, the BLACK-IT! process leaves the metal surface embedded with oil which resists rusting.

Kit 4 x 500ml bottles £39.95



## Milling cutters

from 1/8" dia to 1/2" diameter, see also slot drills.

|       |        |
|-------|--------|
| 1/8"  | £12.85 |
| 5/32" | £12.55 |
| 3/16" | £12.55 |
| 7/32" | £12.55 |
| 1/4"  | £11.35 |
| 5/16" | £11.35 |
| 3/8"  | £9.90  |
| 1/2"  | £12.40 |

## Miniature Cast Signs

Cast aluminium signs of our own manufacture, supplied unpainted.

|                         |        |
|-------------------------|--------|
| Crossing no gates 4-6-0 | £12.50 |
| Crossing no gates 0-6-0 | £12.50 |
| Beware of trains        | £10.50 |



## Nipples (see also Union Nuts)

to suit all ME pipe sizes, including flat ended nipples for injectors. For pressure gauge specials see below.

| Standard  | Type         |  | Injector  | Type       |
|-----------|--------------|--|-----------|------------|
| Pipe size | Price per 10 |  | Pipe Size | Price each |
| 3/32      | £3.80        |  |           |            |
| 1/8       | £3.80        |  | 1/8       | 50p        |
| 5/32      | £3.80        |  | 5/32      | 50p        |
| 3/16      | £4.00        |  | 3/16      | 50p        |
| 1/4       | £4.20        |  | ¼         | 50p        |
| 5/16      | £6.80        |  | 5/16      | 60p        |
| 3/8       | £9.00        |  | 3/8       | 70p        |



## Conversion nipples

| Pipe size | Union nut size | Price each |
|-----------|----------------|------------|
| 1/8"      | 5/16x32        | 50p        |
| 5/32"     | 5/16x32        | 50p        |
| 3/16"     | 3/8x32         | 50p        |

## Nitrile Rubber balls – see also Viton Balls

For check valves, axle and hand water pumps, etc., which are sometimes difficult to get a satisfactory seal on. Under water pumping conditions with the correct lift and seat the balls have a life of several hundred hours. Nitrile balls are sold individually.

|       |       |  |       |       |
|-------|-------|--|-------|-------|
| 1/8"  | £1.20 |  | 7/16" | £1.75 |
| 5/32" | £1.30 |  | 1/2"  | £2.10 |
| 3/16" | £1.30 |  | 9/16" | £2.15 |
| 7/32" | £1.45 |  | 5/8"  | £3.35 |
| 1/4"  | £1.45 |  | 3/4"  | £3.95 |
| 5/16" | £1.65 |  |       |       |
| 3/8"  | £1.65 |  |       |       |

## Nuts, Bolts, Caphead Bolts, Grubscrews

We stock a wide range of BA fastenings in popular sizes with hexagon (inc. small head), roundhead and countersunk heads. A limited range of cap head (socket head or allen screws) bolts, BA and metric studding is stocked in brass, steel and stainless steel studding. With the general adoption of metric fasteners for industrial application, it is becoming increasingly difficult and expensive to obtain BA fasteners.

Although it is our intention to stock BA fasteners for as long as they are obtainable and there is customer demand, we have for some time stocked a range of metric fasteners. The drawback of metric fasteners in the small sizes has historically been the large size of the hexagon heads which made them generally unsuitable for model use. We are pleased now to be able to offer a range of metric fasteners, specially manufactured for model engineers. The small size hexagons are most appropriate for our models and a wide range of special screws, including slotless 'rivet head' screws, dome nuts, etc., are available.

See tables on following pages for available sizes.

## BA Screws & Nuts

| Screws per 25            |       |  | BA Brass or Steel Nuts -per 25<br>Specify brass or steel required |              |
|--------------------------|-------|--|---|--------------|
| <b>steel hex head</b>    |       |  | 2BA brass   | £1.65        |
| 12BA x 3/8"              | £4.00 |  | 3BA brass   | £1.55        |
| 12BA x 1/2"              | £4.30 |  | 4BA brass   | £1.75        |
| 10BA x 1/2"              | £4.05 |  | 5BA brass   | £1.55        |
| 9BA x 1/2"               | £3.85 |  | 6BA brass   | £1.75        |
| 8BA x 1"                 | £4.40 |  | 7BA brass   | £2.90        |
| 8BA x 1/2"               | £3.75 |  | 8BA brass   | £1.95        |
| 7BA x 1/2"               | £3.80 |  | 9BA brass   | £2.25        |
| 6BA x 1"                 | £5.55 |  | 10BA brass  | £2.45        |
| 6BA x 1/2"               | £4.20 |  | 12BA brass  | £2.80        |
| 5BA x 1/2"               | £4.00 |  | 2BA steel   | £1.90        |
| 4BA x 1"                 | £3.95 |  | 3BA steel   | £2.80        |
| 4BA x 1/2"               | £4.00 |  | 4BA steel   | £1.80        |
| 3BA x 1"                 | £4.45 |  | 5BA steel   | £1.80        |
| 2BA x 1"                 | £4.15 |  | 6BA steel   | £2.00        |
| 2BA x 1/2"               | £3.70 |  | 7BA steel   | £2.90        |
| <b>Steel countersunk</b> |       |  | 8BA steel   | £2.35        |
| 10BA x 1/2"              | £3.45 |  | 9BA steel   | n/a          |
| 8BA x 1/2"               | £3.25 |  | 10BA steel  | £3.40        |
| 7BA x 1/2"               | £3.40 |  | 12BA steel  | £3.75        |
| 6BA x 1/2"               | £3.30 |  |   |              |
| 4BA x 1/2"               | £3.15 |  | <b>BA Washers in Brass or Steel</b>                               |              |
| <b>Brass Countersunk</b> |       |  | Most sizes available  |              |
| 12BA x 1/2"              | £4.05 |  | Pkts of 25  | £1.15        |
| 12BA x 3/8"              | £4.10 |  |   |              |
| 10BA x 1/2"              | £3.60 |  | <b>Rivet Head/Slotless Screws -Metric</b>                         |              |
| 8BA x 1/2"               | £3.40 |  | M1.2  | £3.85        |
| 6BA x 1/2"               | £3.40 |  | M1.6  | £3.90        |
| 5BA x 1/2"               | £3.90 |  | M2  | £3.60        |
| 4BA x 1/2"               | £3.25 |  | M3  | £3.90        |
| <b>Hexagon Brass</b>     |       |  |   |              |
| 12BA x 1/2"              | £6.05 |  |   |              |
| 10BA x 1/2"              | £5.90 |  | <b>Cap Head 4BA Bolts</b>   |              |
| 8BA x 1/2"               | £5.25 |  | 4BA x 3/8"  | £2.60        |
| 6BA x 1/2"               | £5.30 |  | 4BA x 1/2"  | £2.60        |
| 5BA x 1.2"               | £5.30 |  | 4BA x 3/4"  | £2.60        |
| 4BA x 1"                 | £5.45 |  |   |              |
| 2BA x 1"                 | £6.65 |  | <b>Grub Screws pkt 10</b>   |              |
| <b>Round Head Brass</b>  |       |  | 6BA   | BA sizes not |
| 10BA x 1/2"              | £3.40 |  | 4BA   | generally    |
| 8BA x 1/2"               | £3.60 |  | 2BA   | available    |
| 6BA x 1/2"               | £3.35 |  | M3 pkt 10   | £1.50        |
|                          |       |  | M4 pkt 10   | £1.50        |
|                          |       |  | M5 pkt 10   | £1.50        |
|                          |       |  |   |              |

N.B. All our stock 'bolts' are technically screws, as they are threaded right up to the head. Generally small BA and metric bolts are very difficult to source and many model engineers wrongly assume that hexagon headed screws are in fact bolts, expecting screws to have slotted heads!



## Metric Screws and nuts

Especially produced for model engineers. High quality rolled threads, with small size hexagon (choice of standard or high head bolts). These nuts and bolts are precision made fasteners specially made in Germany for model engineers. They should not be confused with lower cost industrial fasteners which do not offer such clean hexagons or inferior machined thread screws of doubtful strength.



| Description [packs of 25]          | M1.0                   | M1.2          | M1.4          | M1.6                          | M2.0                           | M2.5          | M3.0                           | M4.0                                  |
|------------------------------------|------------------------|---------------|---------------|-------------------------------|--------------------------------|---------------|--------------------------------|---------------------------------------|
| <b>Steel low head hex bolts</b>    |                        | 8mm<br>£3.85  |               | 12mm<br>£3.85                 | 15mm<br>£3.90                  | 15mm<br>£3.90 | 15mm<br>£3.90                  | 10mm<br>12mm<br>15mm<br>20mm<br>£3.10 |
| <b>Steel std/high hd hex bolts</b> |                        | 12mm<br>£3.90 | 12mm<br>£3.85 | 8mm<br>£3.30<br>12mm<br>£3.85 | 15mm<br>£3.90                  | 15mm<br>£3.85 | 10mm<br>£3.35<br>15mm<br>£3.85 |                                       |
| <b>Brass CSK screws</b>            |                        | 10mm<br>£4.75 |               | 10mm<br>£4.50                 |                                |               | 10mm<br>£4.50                  |                                       |
| <b>Brass hex bolts</b>             | 8mm<br>£3.00<br>Per 10 | 8mm<br>£3.90  | 12mm<br>£3.90 | 10mm<br>£3.85                 | 10mm<br>£3.80<br>15mm<br>£3.90 | 10mm<br>£3.85 | 15mm<br>£3.85                  |                                       |
| <b>Brass rivet head bolts</b>      |                        | 10mm<br>£3.85 |               | 10mm<br>£3.90                 | 10mm<br>£3.90                  |               | 10mm<br>£3.90                  |                                       |
| <b>Stainless hex bolts</b>         |                        |               |               |                               | 8mm<br>£7.40<br>10mm<br>£7.70  | 10mm<br>£7.90 | 10mm<br>£7.90                  |                                       |
| <b>Steel hex nuts</b>              |                        | £4.00         | £3.85         | £3.85                         | £3.85                          | £3.85         | £3.60                          | £3.60                                 |
| <b>Brass hex nuts</b>              |                        | £4.05         | £4.00         | £3.85                         | £3.85                          | £3.30         | £3.85                          | £3.60                                 |
| <b>Brass lock nuts</b>             |                        | £3.85         |               | £3.85                         | £3.85                          |               | £3.85                          |                                       |
| <b>stainless hex nuts</b>          |                        |               |               |                               | £5.90                          | £5.90         | £5.90                          |                                       |
| <b>Dome nuts</b>                   |                        |               |               |                               | £6.50                          |               |                                |                                       |

Packs are marked with size of the bolts – e.g. M3 x 15, indicating the thread size and the length in mm. Specialist fasteners available, including other sizes of dome nuts, please enquire.

## 'O' Rings

A wide range of sizes, available in Nitrile rubber, Silicon or Viton. For use as piston rings, joint seals, gauge glass seals, etc. Sizes from 1/8" to 1 1/2" in stock.

Nitrile – 0-100°C (saturated steam), Viton 15-200°C (superheated steam), Silicone 60-200°C

| Pkts of 6<br>(not larger sizes) | BS<br>No. | Nitrile | Viton | Silicon | Pkts qty as listed              | BS<br>No. | Nitrile     | Viton |
|---------------------------------|-----------|---------|-------|---------|---------------------------------|-----------|-------------|-------|
| ID x OD c/s                     |           |         |       |         |                                 |           | ID x OD c/s |       |
| 1/8" x 1/4" 1/16                | 006       | £1.20   | £1.50 | £1.50   | 1" x 1 1/4" pkt of 4 1/8        | 214       | £1.50       | £4.50 |
| 5/32" x 9/32" 1/16              | 007       | £1.20   | £1.50 | £1.50   | 1 1/8" x 1 3/8" pkt of 4 1/8    | 216       | £1.80       | £4.20 |
| 3/16" x 5/16" 1/16              | 008       | £1.20   | £1.50 | £1.50   | 1 1/4" x 1 1/2" pkt of 2 1/8    | 218       | £2.00       | £4.20 |
| 7/32" x 11/32" 1/16             | 009       | £1.20   | £1.75 | £1.75   | 1 3/8" x 1 5/8" pkt of 2 1/8    | 220       | £2.00       | £4.20 |
| 1/4" x 3/8" 1/16                | 010       | £1.20   | £1.75 | £1.75   | 1 1/2" x 1 3/4" pkt of 2 1/8    | 222       | £2.00       | £4.40 |
| 5/16" x 7/16" 1/16              | 011       | £1.20   | £1.75 | £1.75   | 1 3/4" x 2" pkt of 2 1/8        | 224       | £2.00       | £4.40 |
| 3/8" x 1/2" 1/16                | 012       | £1.20   | £1.75 | £1.75   |                                 |           |             |       |
| 3/8" x 9/16" 3/32               | 110       | £1.20   | £2.20 | £2.20   | Silicon Gauge Glass O Rings     |           |             |       |
| 7/16" x 5/8" 3/32               | 111       | £1.20   | £2.40 | £2.40   | 4mm – 10mm glass size (specify) |           | 75p pkt 4   |       |
| 1/2" x 11/16" 3/32              | 112       | £1.20   | £2.50 | £2.50   |                                 |           |             |       |
| 9/16" x 3/4" 3/32               | 113       | £1.25   | £3.20 | £3.20   | Small Section O Rings           |           | Nitrile     |       |
| 5/8" x 13/16" 3/32              | 114       | £1.25   | £3.80 | £3.80   | 3/32" x 7/32"                   |           | 20p ea      |       |
| 11/16" x 7/8" 3/32              | 115       | £1.30   | £3.80 | £3.80   | 1/16" x 3/16"                   |           | 20p ea      |       |
| 3/4x15/16pkt of 4 3/32          | 116       | £1.10   | £4.00 | £4.00   | 3/32" x 5/32"                   |           | n/a         |       |
| 3/4" x 1" pkt of 4 1/8          | 210       | £1.40   | £4.00 | £4.00   | 1mm x3mm nitrile                |           | 20p ea      |       |
|                                 |           |         |       |         | 4mm x 6mm                       |           | 20p ea      |       |

## Oil Cups and Oilers

A range of precision oil cups.

| Oil Cups     |       |
|--------------|-------|
| 8BA oil cups | £2.60 |
| 6BA oil cups | £2.80 |
| 4BA oil cups | £3.40 |
| 2BA oil cups | £3.90 |



## Oiler – Drip feed Glass Oiler

| Drip feed oilers              |        |
|-------------------------------|--------|
| 3/16 x 40 7mm glass           | £15.00 |
| 3/16 x 40 10mm glass          | £15.00 |
| 3/16 x 40 12mm glass          | £18.00 |
| 3/16 x 40 / ¼ x 40 16mm glass | £18.00 |
| M10 (as used on R&B engine)   | £25.00 |



## Pipe Benders – see our facebook page for a demonstration

|                                    |        |
|------------------------------------|--------|
| Set of pipe benders (1/8" to 1/4") | £13.50 |
|------------------------------------|--------|



## Pressure Gauges

Probably the widest range of gauges available from any supplier. Sizes ranging from 1/2" dia to 4", plain or flange mount graduated in metric (bar) or imperial (psi). Calibrated test gauges available for inspection/certification. Pressure gauge siphons also available.



| Standard type          | Pressure range  | Price  |
|------------------------|---|--------|
| 1/2"                   | 0-80, 0-100, 0-120 psig   | £35.00 |
| 3/4"                   | 0-30, 0-60, 0-80, 0-100, 0-120, 0-150 psig<br>0-6, 0-10bar        | £26.50 |
| 1"                     | 0-30, 0-60, 0-80, 0-100, 0-120, 0-150, 0-200psig<br>0-6, 0-10 bar | £27.00 |
| 1 5/8" ctr mvmnt       | 0-100, 0-160, 0-300psig, 0-10Bar                                  | £30.00 |
| 2" centre mvmnt        | 0-160, 0-300 psig   | £32.00 |
| <b>Flanged type</b>    |   |        |
| 3/4"                   | 0-80, 0-100, 0-120, 0-150 psig                                    | £28.70 |
| 1"                     | 0-80, 0-100, 0-120, 0-150 pig                                     | £36.15 |
| 1 5/8" ctr mvmnt       | 0-160, 0-300 psig   | £38.00 |
| 2" ctr mvmnt           | 0-160, 0-300 psig   | £39.00 |
| 4" standard test gauge | 0-400 psig<br>5 psi incr. graduations                             | £85.00 |

| Nut + Olive to suit gauge | Price |
|---------------------------|-------|
| 1/2"                      | £2.00 |
| 3/4" & 1"                 | £2.00 |
| 1 5/8" & 2"               | £2.00 |

Spare glass 1/2, 3/4, 1" £2.50

Spare glass 1 5/8, 2" £3.50

4" Standard gauge supplied calibrated with certificate, recalibration can be arranged.

## Pressure Gauge Syphons

|   |       |
|---|-------|
| Syphon standard for 3/4" and 1" gauges, thread size 3/16" x 40 banjo bolt | £8.70 |
| Syphon standard for 3/4" and 1" gauges, thread size 1/4" x 40 banjo bolt  | £8.70 |



Banjo bolt fixing

## Reilang Oilers



Reilang oilers with their unique double pump action are ideal for oiling up your loco or for general workshop use. General purpose pump action oilers available in various sizes, pressure oilers to fit machinery oil nipples and pocket oilers.

|                                    |        |
|------------------------------------|--------|
| Reilang flexible spout oiler 200ml | £28.80 |
| Reilang pocket oiler 75ml          | £6.00  |
| Reilang precision oiler 200ml      | £33.70 |
| Reilang precision oiler 300ml      | £34.80 |
| Reilang precision oiler 500ml      | £40.95 |
| Reilang plastic oiler 200ml        | £30.60 |
| Reilang plastic oiler 300ml        | £32.10 |

## Rivet snaps

Available individually, sizes 1/32" to 1/4" diameter.

|       |       |
|-------|-------|
| 1/32" | £6.60 |
| 3/64" | £7.50 |
| 1/16" | £7.60 |
| 5/64" | £7.80 |
| 3/32" | £7.90 |
| 1/8"  | £7.90 |
| 5/32" | £8.00 |
| 3/16" | £8.00 |
| 1/4"  | £7.90 |



## Rivet Tools

DIY casting for 75mm lever action crimping tool with drawing £24.00

Rivet tool snaps £21.50 per set, shank sizes:

0.8mm (1/32"),  
 1.2mm (3/64"),  
 1.6mm (1/16")  
 2.0mm (5/64"),  
 2.4mm

## Rivets

**Brass** snap head rivets from 1/32" to 1/16" diameter, in packs of 50 with larger quantities on request

**Copper** snap head from 1/16" diameter to 3/16" for boiler making and general use. Standard packs of 50, 3/16" in packs of 25.

**Steel** general purpose snap head rivets.

**Rivet Head Screws (Slotless screws)** to match rivets, see nuts and bolts above.

| rivets brass snap head      |       | rivets steel snap head |       |
|-----------------------------|-------|------------------------|-------|
| Per pkt 50                  |       | Per pkt 50             |       |
| 1/32" x 1/4" long           | £1.40 | 1/16" x 1/4" long      | £1.10 |
| 3/64" x 1/4" long           | £1.15 | 1/16" x 1/2" long      | £1.10 |
| 1/16" x 1/4" long           | £1.40 | 5/64" x 1/2" long      | n/a   |
| rivets copper snap head     |       | 3/32" x 1/2" long      | £1.20 |
| Per pkt 50                  |       | 1/8" x 1/2" long       | £1.20 |
| 1/32" x 1/4" long           | £1.40 | 1/8" x 1" long         | £1.40 |
| 3/64" x 1/4" long           | £1.15 | 5/32" x 1" long        | £2.50 |
| 1/16" x 1/4" long           | £1.20 | 3/16" x 1" per 25      | £1.80 |
| 1/16" x 1/2" long           | £1.50 |                        |       |
| 3/32" x 1/2" long           | £1.40 |                        |       |
| 1/8" x 1/2" long            | £2.10 |                        |       |
| 1/8" x 1" long              | £3.75 |                        |       |
| 5/32" x 1" long             | £5.60 |                        |       |
| 3/16" x 1" long per pack 25 | £5.00 |                        |       |

Enquire for quantity prices of rivets.

## Roll Pins

| Pkt of 10  | Price |
|------------|-------|
| 1/16"      | £1.30 |
| 3/32"      | £1.30 |
| 1/16x5/8"  | £1.30 |
| 1/16x1"    | £1.30 |
| 3/32x5/16" | £1.30 |
| 3/32x3/4"  | £1.30 |
| 1/8x1/4"   | £1.30 |
| 1/8x5/8    | £1.30 |



## Safety Valve Spring & Ball Details for Gordon Smith designs

| Valve Seat Dia | Drawing number | Ball size | Valve Style (short/tall)                   | Suitable for Loco Type                  | Manufacturer Part No. | Price per spring | Price per ball |
|----------------|----------------|-----------|--|---|-----------------------|------------------|----------------|
| 1/8"           | SV#1           | 5/32"     | 23/32" tall 90 psi                         | MOLLY - etc                             | LC-016A-03-SS         | £2.10            | 25p            |
| 1/8"           | SV#1B          | 5/32"     | 3/8" tall (4 per loco)                     | 3 1/2" g LMS Princess                   | LC-014A-01-SS         | £2.10            | 25p            |
| 5/32"          | SV#2           | 3/16"     | 13/16" tall 100 psi                        | Large 3 1/2" g, Small 5" g              | LCM-055B-04-SS        | £2.10            | 30p            |
| 5/32"          | SV#2A          | 3/16"     | Short (1/2" tall) 100 psi                  | ditto                                   | LC-021AB-04-SS        | £2.10            | 30p            |
| 5/32"          | SV#2B          | 3/16"     | Short (7/16" tall) 90 psi                  | HIELAN LASSIE                           | LC-018AB-02-SS        | £2.00            | 30p            |
| 5/32"          | SV#2C          | 3/16"     | Twin GWR style 80psi                       | DIDCOT & PANSY                          | LC-026B-11-SS         | £2.60            | 30p            |
| 5/32"          | SV#2D          | 3/16"     | Tall 80 psi                                | 3 1/2" g DERBY 4F                       | LCM-055B-04-SS        | £2.10            | 30p            |
| * 5/32"        | SV#2-3F        | 3/16"     | Tall 90 psi                                | 5" g JINTY TO BE AMENDED                | LC-018AB-02-SS        | £2.00            | 30p*           |
| 5/32"          | SV#2E          | 3/16"     | Sunken Style, 1/4" tall                    | Dummy Salter Large 3 1/2" g Small 5"    | LCM-055B-04-SS        | £2.10            | 30p            |
| 5/32"          | SV#2 BR Style  | 3/16"     | 3/8" tall with adjuster protruding x 1/16" | 3 1/2" g BRITANNIA or similar BR Loco   | LC-018AB-02-SS        | £2.00            | 30p            |
| 3/16"          | SV#3A# 2       | 7/32"     | Tall Special design                        | 3 1/2" g MOUNTAINEER                    | LCM-060B-06-SS        | £2.20            | 30p            |
| 3/16"          | SV#3           | 7/32"     | 29/32" Tall                                | Maid of Kent etc                        | LC-026C-03-SS         | £2.20            | 30p            |
| 3/16"          | SV#3A          | 7/32"     | Short (1/2" tall)                          | Other 5" g Loco's                       | LCM-060B-06-SS        | £2.20            | 30p            |
| 3/16"          | SV#3B          | 7/32"     | Sunken Style 5/16" Tall                    | Dummy Salter 5" g Talyllyn etc          | LC-026C-03-SS         | £2.20            | 30p            |
| 3/16"          | SV#3C          | 7/32"     | Twin GWR Style 90 psi                      | Cookham MANOR or similar                | LCM-060B-06-SS        | £2.20            | 30p            |
| 3/16"          | SV#3E#2        | 7/32"     | Twin GWR Style 90 psi                      | 5" g Firefly or similar                 | LCM-060B-06-SS        | £2.20            | 30p            |
| 3/16"          | SV#3L          | 7/32"     | Sunken Style 7/16" Tall                    | 7 1/4" g LION                           | LCM-060B-06-SS        | £2.20            | 30p            |
| 3/16"          | SV#3-Simplex   | 7/32"     | 1-1/2" tall                                | Simplex                                 | LCM-060B-06-SS        | £2.20            | 30p            |
| 3/16"          | SV#3-SP        | 7/32"     | Medium Height Special                      | 5" g SWEET PEA                          | LC-026C-03-SS         | £2.20            | 30p            |
| 7/32"          | SV#4           | 1/4"      | Tall                                       | Large 5" g & Very Small 7 1/4" g Loco's | LC-029C-03-SS         | £2.20            | 30p            |
| 7/32"          | SV#4A          | 1/4"      | Short (5/8" tall)                          | 5" g MAINLINE BR Style                  | LC-029C-03-SS         | £2.20            | 30p            |
| 7/32"          | SV#4B          | 1/4"      | Very Short (7/16" Tall)                    | 5" g BRITANNIA                          | LC-029C-03-SS         | £2.20            | 30p            |
| 1/4"           | SV#5           | 5/16"     | Tall (1-1/16" tall)                        | Large 5" g                              | LCM-080D-05-SS        | £2.20            | 40p            |
| 1/4"           | SV#5A          | 5/16"     | Short (13/16" Tall)                        | Large 5" g                              | LCM-080D-05-SS        | £2.20            | 40p            |
| 5/16"          | SV#6           | 3/8"      | Tall (1-7/16")                             | 7 1/4" g Standard Gauge                 | LC-042E-08-SS         | £2.40            | 60p            |
| 5/16"          | SV#6A          | 3/8"      | American Style                             | 7 1/4" g Standard Gauge                 | LC-042E-08-SS         | £2.40            | 60p            |
| 5/16"          | SV#6C2         | 3/8"      | Medium Height Special                      | 5" g SPEEDY (Single Valve)              | LC-042E-08-SS         | £2.40            | 60p            |
| 5/16"          | SV#6C6         | 3/8"      | Medium Height Special                      | 5" g MINX (Single Valve)                | LC-042E-08-SS         | £2.40            | 60p            |
| 5/16"          | SV#6C5         | 3/8"      | BR/Stanier Style                           | 7 1/4" g BR Class 4MT                   | LC-042E-08-SS         | £2.40            | 60p            |
| 3/8"           | SV#7           | 7/16"     | Tall (1-13/16")                            | 7 1/4" g Narrow Gauge 100psi            | LC-055G-05-SS         | £2.65            | 95p            |
| 1/2"           | SV#8           | 5/8"      | Tall (2-9/16")                             | 10 1/4" g Standard Gauge                | LC-072G-08-SS         | £4.20            | £2-55p         |

\*- Springs: LCM055B04SS 3/16 ball Extra drawing: 7/32 SV#4B1 1/4 Ball 1 1/8" tall, 5" G B1, LC029C03SS

N.B. Grade 316 S/S steel balls now supplied, slight increase from previous prices

**Safety Valve Drawings for all designs of these mild pop safety valves are £1.00 each.**

## Safety Valves

Short Express and Tall styles available. The majority of our safety valves are manufactured in house using high grade bronze. A wide and developing range of precision safety valves to suit the needs of most model engineers. New types being introduced exhibit minimal pressure rise with maximum flow under steam test conditions, in line with latest boiler test recommendations. Note safety valves are not calibrated and should be adjusted and tested to suit the boiler and conform with boiler testing requirements.



All **bronze bodied** except where indicated

|   | Working pressure | Approx body height | Approx body diameter |        |
|---|------------------|--------------------|----------------------|--------|
| 3/16" x 40 for G1 Express style                 | 40-75psi         | 5/16"/8mm          | 5/16"/8mm            | £19.50 |
| 7/32" x 40 for G1 Express style                 | 40-75psi         | 5/16"/8mm          | 5/16"/8mm            | £19.50 |
| 1/4" x 40 for G1 Express style                  | 40-75psi         | 5/16"/8mm          | 5/16"/8mm            | £19.50 |
| 3/16" x 40 for G1 Tall style                    | 40-75psi         | 13.7mm             | 5/16"/8mm            | £19.50 |
| 7/32" x 40 for G1 Tall style                    | 40-75psi         | 13.7mm             | 5/16"/8mm            | £19.50 |
| 1/4" x 40 for G1 Tall style                     | 40-75psi         | 13.7mm             | 5/16"/8mm            | £19.50 |
| 5/16" x 26 Express style                        | 80-90psi         | 3/8"/9.52mm        | 1/2"/12.6mm          | £19.50 |
| 5/16" x 26 Tall style                           | 80-90psi         | 7/8"/22.22mm       | 1/2"/12.6mm          | £19.50 |
| 5/16" x 32 Express style                        | 80-90psi         | 3/8"/9.52mm        | 1/2"/12.6mm          | £19.50 |
| 5/16" x 32 Tall style                           | 80-90psi         | 7/8"/22.22mm       | 1/2"/12.6mm          | £19.50 |
| 5/16" x 32 Suitable for roundhouse boilers      | 40psi            |                    |                      | £24.50 |
| 3/8" x 26 Express style                         | 80-90psi         | 13/32"/10.3mm      | .575"/14.6mm         | £22.00 |
| 3/8" x 26 Tall style                            | 80-90psi         | 1"/25.4mm          | .597"/15.2mm         | £22.00 |
| 3/8" x 32 Express style                         | 80-90psi         | 13/32"/10.3mm      | .575"/14.6mm         | £22.00 |
| 3/8" x 32 Tall style                            | 80-90psi         | 1"/25.4mm          | .597"/15.2mm         | £22.00 |
| 7/16" x 26 Express style                        | 80-100psi        | 9/16"/14.28mm      | 3/4"/19.1mm          | £27.00 |
| 7/16" x 26 Tall style                           | 80-100psi        | 1 1/4"/31.75mm     | .69"/17.5mm          | £27.00 |
| 7/16" x 32 Express style                        | 80-100psi        | 9/16"/14.28mm      | 3/4"/19.1mm          | £27.00 |
| 7/16" x 32 Tall style                           | 80-100psi        | 1 1/4"/31.75mm     | .69"/17.5mm          | £27.00 |
| 1/2" x 26 Express style                         | 80-100psi        | 9/16"/14.28mm      | 3/4"/19.1mm          | £27.00 |
| 1/2" x 26 Tall style                            | 80-100psi        | 1 1/4"/31.75mm     | .69"/17.5mm          | £27.00 |
| 5/8" x 26 Short use as spec. by boiler designer | 80-110psi        | 1 1/16"/27mm       | 1.142"/29mm          | £31.00 |
| 5/8" x 26 Tall use as spec. by boiler designer  | To 125psi        | 1 1/2"/38.1mm      | 1"/25.4mm            | £31.00 |
| 5/8 x 26 Polly type                             | 80-110psi        | 1 1/4"/32mm        | 1.02"/25.9mm         | £31.00 |
| LMS/BR style 5" gauge M12x1 / 1/2"x26           | 80-100psi        | .698"/17mm         | .78"/20mm            | £47.00 |
| LMS/BR style 7 1/4" gauge 5/8"x26 / 3/4"x26     | 80-100psi        | 1.02"/26mm         | 1.18"/30mm           | £99.00 |
| LMS/BR style 7 1/4" gauge Setting tool          |                  |                    |                      | £8.00  |

## Silicon Rubber Tubing (Black)

Ideal for tender to loco water connections, brake pipes, etc. Available in 5' lengths from 1/8" to 3/8" int. dia.

| Per 5ft | Price |
|---------|-------|
| 1/8"    | £4.00 |
| 5/32"   | £4.00 |
| 1/4"    | £4.50 |
| 3/8"    | £6.00 |

## Silver Solder

We have always sought to supply the highest quality silver solders available, including the most popular Easyflo 2 from Johnson Matthey. During 2010, EF2 was discontinued. AG303 also a cadmium bearing alloy having a similar temperature range to EF2 is also discontinued. Silverflo 24, Silverflo 40 and Silverflo 55 rods are stocked, with SF55 being the closest substitute for EF2. Argobraz 56 is a special silver solder particularly suited for stainless steel in arduous environments such as superheater headers, where EF2 or similar may fail after a time.

|                         |           |   |
|-------------------------|-----------|---|
| AG303 contains Cadmium  | 610-620 C | 1.5mm x 500mm stick for general purpose lowest temperature, highly fluid for fine work. Also available in 2.0mm sticks.<br><b>NO LONGER AVAILABLE – USE CADMIUM FREE ALTERNATIVES</b> |
| 55% silver Cadmium free | 630-660 C | 1.5mm x 500mm stick for Cad.free low temp. larger fillets for fabricated work, step brazing of brass.   |
| Silver Flo 24           | 740-800 C | 1.5mm x 500mm stick for Cad free high temp. Replaces C4, ideal for fireboxes and start of step brazing.   |
| Silver Flo 67E          |           | Hallmark quality for jewellery  |
| Silver Flo 40           | 650-710 C | For firebox tubeplates, step brazing. Useful working range.   |
| Argobraz 56             | 600-711 C | Specialist silver solder for stainless steel.   |

| Prices                 | 1 stick | 5 sticks | 10 sticks |
|------------------------|---------|----------|-----------|
| 55% silver 1.5mm dia   | £7.25   | £35.00   | £67.50    |
| 55% silver 2.5mm dia   | £19.80  |          |           |
| SF24 1.2mm dia         | £4.00   | £19.20   | £38.00    |
| SF40 1.5mm dia         | £5.60   | £27.50   | £54.00    |
| Argobraz 56            | £9.00   |          |           |
| SF55 0.5mm wire 10feet | £5 pkt  |          |           |

See also 'Fluxes'. Enquire for larger quantity discounts for professional boiler makers, etc.

## Slot drills

from 1/16" to 1/2" diameter.

|       |        |
|-------|--------|
| 1/16" | £14.40 |
| 3/32" | £14.40 |
| 1/8"  | £14.40 |
| 5/32" | £12.85 |
| 3/16" | £13.70 |
| 1/4"  | £12.85 |
| 5/16" | £12.85 |
| 3/8"  | £12.85 |
| 1/2"  | £11.65 |

## Soft Solder paste

'Nealtin', a convenient ready to use, low temperature flux solder mix. Ideal for soldering small parts where it is necessary to avoid excessive amounts of solder. Flux residues wash off easily with water.

|                 |        |
|-----------------|--------|
| 250 gramme tins | £12.80 |
|-----------------|--------|

**N.B. The health risks associated with lead based solders mean this is now a restricted product only available for sale to our professional customers who provide sufficient documents. A lead free alternative is being sourced and should be available in the near future.**

## Split pins (cotter pins)

from 1/32" to 5/32" diameter in various lengths.

|                                     |       |
|-------------------------------------|-------|
| <i>steel zinc plated per pkt 10</i> |       |
| 1/32" x 1/2"                        | £1.00 |
| 3/64" x 1"                          | £1.00 |
| 1/16" x 1"                          | £1.00 |
| 5/64" x 1.252"                      | £1.00 |
| 3/32" x 1.5"                        | £1.00 |
| 1/8" x 1.75"                        | £1.00 |
| 5/32" x 2"                          | £1.55 |

## Stainless steel balls (grade 316)

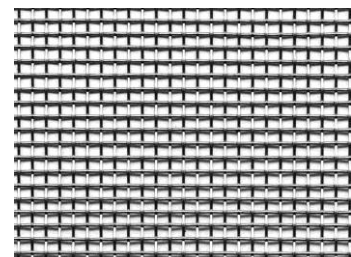
for safety valves, clacks, pumps, etc.

| Packs of 10 |       |             |       |
|-------------|-------|-------------|-------|
|             |       | 1/4"        | £2.30 |
| 1/16"       | £1.45 | 9/32"       | £3.60 |
| 3/32"       | £1.45 | 5/16"       | £2.65 |
| 1/8"        | £1.90 | 11/32"      | £3.40 |
| 5/32"       | £1.90 | 3/8"        | £3.60 |
| 3/16"       | £1.90 | 7/16" per 5 | £3.70 |
| 7/32"       | £2.40 | 1/2" per 5  | £5.30 |

## Stainless Steel mesh

nominal 12" square sheets for making spark arrestors.

|                                       |        |
|---------------------------------------|--------|
| nominal 12" square, 14 holes per inch | £15.00 |
|---------------------------------------|--------|



## Stainless steel springs

in a variety of diameters and wire gauges, to give spring rates suitable for safety valves, axlebox springs etc. Table below gives sizes and spring rate (lbs per inch of deflection). Use the table below to determine the spring required. The first four columns give the physical size of the spring and enable you to determine whether the spring will fit in its intended place. The fifth column gives the force in pounds per inch deflection. It is thus easy to assess what the force exerted by the spring will be and what the effect of further deflections will be. Clearly when considering compressed springs care has to be taken that the spring does not become 'coil bound'. *Available in 1 ft lengths (305mm).*



| 12" lengths    | Wire Dia | I/D  | Coils per inch | lbs per inch |       |
|----------------|----------|------|----------------|--------------|-------|
| 1/8" x 30swg   | .012     | .101 | 28             | .64          | £2.20 |
| 1/8" x 27 swg  | .016     | .088 |                |              | £2.20 |
| 1/8" x 25swg   | .020     | .097 |                |              | £2.20 |
| 5/32" x 23 swg | .024     | .106 | 20             |              | £2.00 |
| 3/16" x 26swg  | .018     | .150 | 20             | 1.34         | £2.40 |
| 3/16" x 23swg  | .024     | .139 | 16             | 5.88         | £2.40 |
| 1/4" x 23swg   | .024     | .202 | 12             | 2.99         | £2.40 |
| 1/4" x 21swg   | .032     | .186 | 14             | 9.04         | £2.80 |
| 1/4" x 19swg   | .040     | .170 | 16             | 21.6         | £2.80 |
| 5/16" x 21swg  | .032     | .248 | 11             | 5.37         | £3.10 |
| 5/16" x 19swg  | .040     | .232 | 12             | 13.11        | £3.10 |
| 5/16" x 18swg  | .048     | .216 | 13             | 27.43        | £3.10 |
| 3/8" x 18swg   | .048     | .279 | 10             | 18.98        | £3.20 |
| 3/8" x 17swg   | .056     | .263 | 10             | 37.87        | £3.20 |
| 7/16" x 16swg  | .064     | .310 | 9              | 44.54        | £3.20 |
| 7/16" x 15swg  | .072     | .294 | 9              | 76.33        | £3.20 |
| 1/2" x 16swg   | .064     | .372 | 8              | 31.63        | £3.40 |
| 1/2" x 14swg   | .080     | .340 | 7              | 98.7         | £3.40 |

## Steam Raising Blowers

Available to suit a wide range of models.

Supplied with adaptor for either 3 1/2" gauge or 5 - 7 1/4" gauge. The small adaptor is suitable for chimney sizes 7/8" to 1 1/2" and the larger one, 1 1/8" to 2" diameter.

|                                 |        |
|---------------------------------|--------|
| 12v dc blower incl. one adaptor | £65.00 |
| Adaptor sold separately         | £10.00 |

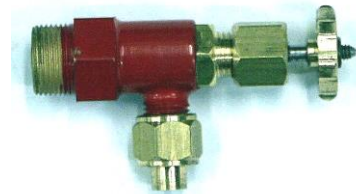




## Steam Stop Valves – see also Globe Valves

Flanged backhead fitting steam stop valves with pipe sizes from 3/32" to 1/4". See also Globe Valves (180 degree) for pipe sizes up to 3/8". Radio control servo valves are also available. Steam stop valves can also be used for water. Scale GWR injector steam valves for 5" and 7 1/4" gauge are also available.

| 90 deg pipe to thread    |        |
|--------------------------|--------|
| 3/16" x 40tpi 3/32" pipe | £14.30 |
| 1/4" x 40tpi 1/8" pipe   | £14.30 |
| 1/4" x 40tpi 5/32" pipe  | £14.30 |
| 5/16" x 32tpi 1/8" pipe  | £14.40 |
| 5/16" x 32tpi 3/16" pipe | £14.40 |
| 5/16" x 32tpi 1/4" pipe  | £14.70 |
| 3/8" x 32tpi 1/4" pipe   | £14.80 |
| 7/16" x 26tpi 1/4" pipe  | £15.50 |



## Steam Valves for Radio Control

90 degree lever movement steam valves for servo operation (radio control) 5/32" pipe, 1/4" x 40 threads: £24.00 each.

## Steam Tees

in various sizes supplied with nuts and nipples.

|            |       |       |        |
|------------|-------|-------|--------|
| 3/32" pipe | £8.00 | 5/16" | £15.60 |
| 1/8" pipe  | £7.80 | 3/8"  | £15.20 |
| 5/32" pipe | £7.80 |       |        |
| 3/16" pipe | £8.20 |       |        |
| 1/4" pipe  | £8.50 |       |        |



## Studding brass

|     |       |
|-----|-------|
| 2BA | £3.50 |
| 4BA | £4.50 |
| 6BA | £4.50 |
| 8BA | £7.00 |

1 ft (305mm) lengths

## Studding metric stainless

|              |       |
|--------------|-------|
| M2 stainless | £2.80 |
| M3 stainless | £2.80 |
| M4 stainless | £2.80 |

1 ft (305mm) lengths

## Steel Studding

|           |       |
|-----------|-------|
| 2BA steel | £2.50 |
| 4BA steel | £3.00 |
| 6BA steel | £4.00 |
| 8BA steel | £8.00 |

1 ft (305mm) lengths

## Superheater Elements Stainless Steel

We supply welded superheater elements in a range of standard sizes. Please enquire for prices and availability.

|   |         | Minimum tube ID for spear |
|---|---------|---------------------------|
| Simplex (far left of picture)                       | £71.00  | 1"                        |
| 1/4" x 24"  | £37.50  | 5/8"                      |
| 5/16" x 27"   | £46.00  | 3/4"                      |
| 3/8" x 30"  | £56.50  | 21mm                      |
| Grange (per pair) (2 <sup>nd</sup> left of picture) | £149.50 | 3/4"                      |



## Tap wrench

|                             |       |
|-----------------------------|-------|
| Straight type 1/16" to 1/4" | £5.70 |
|-----------------------------|-------|

## Taper pins

packs of 10 from 1/16" to 1/8" nominal diameter.

| per pkt 10  |       |               |       |
|-------------|-------|---------------|-------|
| 1/16 x 5/8" | £3.80 | 3/32 x 5/8"   | £4.00 |
| 1/16"x1"    | £3.85 | 3/32 x 1 1/4" | £4.50 |
| 5/64 / 1/2" | £3.95 | 1/8 x 1"      | £4.60 |

## Taps & Dies



British made taper, second & plug taps individually or sets of all three, wide range of BA, ME, BSB, etc and some metric sizes.

Sets of small size taps and dies in metric sizes also available.

**British made BA, ME, BSP, BSB, BSW Quality carbon steel Taps and Dies**

**BA (taper, second or bottom taps)**

|      | <b>Tap</b> | <b>Die</b> |
|------|------------|------------|
| 0BA  | £3.15      | £6.20      |
| 1BA  | £3.15      | £6.20      |
| 2BA  | £1.90      | £3.15      |
| 3BA  | £3.15      | £6.20      |
| 4BA  | £1.80      | £4.20      |
| 5BA  | £1.90      | £6.20      |
| 6BA  | £1.90      | £4.20      |
| 7BA  | £2.45      | £7.45      |
| 8BA  | £2.45      | £6.20      |
| 9BA  | £3.15      | £9.55      |
| 10BA | £3.15      | £9.55      |
| 12BA | £8.40      | n/a        |

**British Standard Brass 26tpi**

|         | <b>Tap</b> | <b>Die</b> |
|---------|------------|------------|
| 1/4x26  | £2.75      | £6.50      |
| 5/16x26 | £3.05      | £6.50      |
| 3/8x26  | £3.35      | £6.50      |
| 7/16x26 | £4.30      | £7.65      |
| 1/2x26  | £4.75      | £7.65      |
| 9/16x26 | £5.90      | £10.80     |
| 5/8x26  | £6.85      | £15.10     |

**British Standard Pipe BSP**

|        | <b>Tap</b> | <b>Die</b> |
|--------|------------|------------|
| 1/8BSP | £4.30      | £7.90      |
| 1/4BSP | £4.65      | £8.30      |
| 3/8BSP | £5.30      | £11.90     |

**Metric**

|      | <b>Tap</b> | <b>Die</b> |
|------|------------|------------|
| M2   | £3.10      | £6.20      |
| M2.5 | £3.10      | £6.20      |
| M3   | £2.55      | £6.20      |
| M4   | £2.55      | £4.30      |
| M5   | £2.75      | £4.30      |
| M6   | £2.75      | £4.30      |
| M7   | £3.40      | £5.80      |
| M8   | £3.40      | £5.80      |
| M10  | £3.75      | £6.50      |
| M12  | £4.30      | £9.20      |

**Model Engineer 'ME' 40tpi**

|          | <b>Tap</b> | <b>Die</b> |
|----------|------------|------------|
| 1/8x40   | £1.90      | £4.20      |
| 5/32X40  | £2.30      | £4.65      |
| 3/16X40  | £2.30      | £4.65      |
| 7/32X40  | £2.30      | £4.65      |
| 1/4X40   | £2.30      | £4.65      |
| 9/32X40  | £4.20      | £8.10      |
| 5/16X40  | £3.45      | £8.10      |
| 3/8X40   | £4.20      | £8.10      |
| 1/2X40   | £5.45      | £9.55      |
| 7/16 x40 | £5.45      | £9.55      |

**Model Engineer 'ME' 32tpi**

|         | <b>Tap</b> | <b>Die</b> |
|---------|------------|------------|
| 5/32X32 | £2.30      | £4.85      |
| 3/16X32 | £2.30      | £4.95      |
| 1/4X32  | £3.25      | £6.95      |
| 5/16x32 | £3.25      | £6.60      |
| 3/8x32  | £3.25      | £6.50      |
| 7/16x32 | £4.65      | £9.45      |
| 1/2x32  | £5.45      | £9.45      |
| 9/32x32 | £3.35      | £7.00      |

**Whitworth BSW**

|         | <b>Tap</b> | <b>Die</b> |
|---------|------------|------------|
| 1/16x60 | £3.35      | £6.50      |
| 3/32x48 | £3.15      | £6.50      |
| 1/4x20  | £2.45      | £4.95      |

**Metric Special**

|                | <b>Tap</b> | <b>Die</b> |
|----------------|------------|------------|
| M4.5 x 0.5 sec | £5.45      | £8.70      |

## Transfers

High quality British made water slide transfers produced specially for model engineers. Whilst we attempt to keep in stock the majority of popular transfers, it is inevitable that sometimes we will be out of stock and for some of the slower moving items, stocks are held by our supplier and can be delivered to customers in a few days. Items marked n/a are currently out of stock with our supplier at the time of printing (May 2018) and are either in the process of being reprinted or likely to be printed in the near future.

| <i>CatRef</i> | <i>Gauge<br/>Price</i> | <i>Description</i>                     | <i>Size</i> |
|---------------|------------------------|--|-------------|
| WAG01/7       | 7<br>£6.40             | Standard wagon running numbers & tares |             |

### *Pre grouping railway companies*

| <i>CatRef</i> | <i>Gauge<br/>Price</i> | <i>Description</i>  | <i>Size</i> |
|---------------|------------------------|---|-------------|
| CAL02/1       | 1<br>£5.20             | Caledonian Railway initials   |             |
| CAL02/3       | 3<br>£6.40             | Caledonian Railway initials   |             |
| CAL02/5       | 5<br>£6.40             | Caledonian Railway initials   |             |
| HR01/1        | 1<br>£33.80            | Highland Railway locomotive sheet1  |             |
| HR01/3        | 3<br>£17.50            | Contains all Loch names & selection for Castles & Bens<br>Highland Railway locomotive sheet |             |
| HR01/5        | 5<br>£74.00            | Highland Railway locomotive sheet   |             |
| MR01/3        | 3<br>£6.40             | Contains all Loch names & numbers for Jones Goods<br>Midland Railway 'M R' for bufferbeams  |             |
| O&K           | 5<br>£33.80            | O&K Worksplates set   |             |

### *Lining*

| <i>CatRef</i> | <i>Gauge<br/>Price</i> | <i>Description</i>                    | <i>Size</i> |
|---------------|------------------------|---------------------------------------|-------------|
| BlankA4       | 99<br>£5.20            | Blank transfer sheet (163 x 280mm)    |             |
| BlankA5       | 99<br>£4.10            | Blank transfer sheet (160 x 140mm)    |             |
| BlankNEW      | 99<br>£5.20            | Blank transfer sheet (163x280mm)      |             |
| LIN-Black     | 99<br>£11.60           | 1/32" wide black lining               |             |
| LIN-Gold      | 99<br>£11.60           | 1/32" wide gold lining & corners      |             |
| LIN-Red       | 99<br>£11.60           | 1/16" wide red lining & corners       |             |
| LIN-White     | 99<br>£11.60           | 1/32" wide white lining & corners     |             |
| LIN-Yellow    | 99<br>£11.60           | 1/32" wide yellow lining & corners    |             |
| LINBRX/1      | 1<br>£6.40             | BR Experimental Blue lining & corners |             |

|          |        |  |
|----------|--------|--|
| LINBRX/3 | 3      | BR Experimental Blue lining & corners  |
|          | £8.50  |  |
| LINBRX/5 | 5      | BR Experimental Blue lining & corners  |
|          | £11.60 |  |
| LINBRX/7 | 7      | BR Experimental Blue lining & corners  |
|          | £11.60 |  |
| LINGWR/1 | 1      | GWR/BR lining & corners  |
|          | £6.40  |  |
| LINGWR/3 | 3      | GWR/BR lining & corners  |
|          | £8.50  |  |
| LINGWR/5 | 5      | GWR/BR lining & corners  |
|          | £11.60 |  |
| LINGWR/7 | 7      | GWR/BR lining & corners  |
|          | £11.60 |  |
| LINLNE/1 | 1      | LNER/BR Lining & corners   |
|          | £6.40  |  |
| LINLNE/3 | 3      | LNER/BR Lining & corners   |
|          | £8.50  |  |
| LINLNE/5 | 5      | LNER/BR Lining & corners   |
|          | £11.60 |  |
| LINLNE/7 | 7      | LNER/BR Lining & corners   |
|          | £11.60 |  |
| LINLNW/1 | 1      | LNWR/BR Lining & corners   |
|          | £6.40  |  |
| LINLNW/2 | 2      | Use with LINMXD/1<br>LNWR/BR Lining & corners                                |
|          | £6.40  |  |
| LINLNW/3 | 3      | LNWR/BR Lining & corners   |
|          | £8.50  |  |
| LINLNW/5 | 5      | Use with LINMXD/3<br>LNWR/BR Lining & corners                                |
|          | £11.60 |  |
| LINLNW/7 | 7      | Use with LINMXD/5<br>LNWR/BR Lining & corners                                |
|          | £11.60 |  |
| LINMET/1 | 1      | Use with LINMXD/7<br>Yellow/black/yellow lining for Metropolitan, Barry etc. |
|          | £6.40  |  |
| LINMET/3 | 3      | Yellow/black/yellow lining for Metropolitan, Barry etc.                      |
|          | £8.50  |  |
| LINMET/5 | 5      | Yellow/black/yellow lining for Metropolitan, Barry etc.                      |
|          | £11.60 |  |
| LINMET/7 | 7      | Yellow/black/yellow lining for Metropolitan, Barry etc.                      |
|          | £11.60 |  |
| LINMXD/1 | 1      | Red boiler bands for LNW & BR mixed traffic livery                           |
|          | £6.40  |  |
| LINMXD/3 | 3      | Use with LINLNW/1<br>Red boiler bands for LNW & BR mixed traffic livery      |
|          | £8.50  |  |
| LINMXD/5 | 5      | Use with LINLNW/3<br>Red boiler bands for LNW & BR mixed traffic livery      |
|          | £11.60 |  |
| LINMXD/7 | 7      | Use with LINLNW/5<br>Red boiler bands for LNW & BR mixed traffic livery      |
|          | £11.60 |  |
|          |        | Use with LINLNW/7  |

**British Railways**

| <i>CatRef</i> | <i>Gauge Price</i> | <i>Description</i>           | <i>Size</i> |
|---------------|--------------------|------------------------------|-------------|
| 48Lion/10     | £4.10              | BR Lion over wheel (LH & RH) |             |

Jan 2021

For All your Model Engineering Requirements:

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Telephone: +44 (0)115 9736700



|            |              |  |            |
|------------|--------------|--|------------|
| 48Lion/101 | 7<br>£11.60  | BR Lion over wheel (LH & RH)   |            |
| 48Lion/15  | 1<br>£5.20   | Large 7 1/4 & medium 10 1/2" gauges<br>BR Lion over wheel (LH & RH)  |            |
| 48Lion/21  | 5<br>£5.20   | Medium G1 & small 3 1/2 gauge<br>BR Lion over wheel (LH & RH)  | 21mm high  |
| 48Lion/25  | 2<br>£5.20   | Small 5" gauge<br>BR Lion over wheel (LH & RH)   | 25mm high  |
| 48Lion/35  | 3<br>£6.40   | Large G1 & medium 2 1/2" gauge<br>BR Lion over wheel (LH & RH)<br>Large 2 1/2" guage, medium 3 1/2" & small 7 1/4" | 35mm high  |
| 48Lion/51  | 5<br>£8.50   | (Replaces 48Lion/44)<br>BR Lion over wheel (LH & RH)   | 51mm high  |
| 48Lion/72  | 7<br>£11.60  | Large 3 1/2" & medium 5" gauges<br>BR Lion over wheel (LH & RH)  | 72mm high  |
| 48Lion/91  | 7<br>£11.60  | Large 5" & medium 7 1/4" gauges<br>OBSOLETE: BR Lion over wheel (LH & RH)  | 91mm high  |
| BRY01/01   | 1<br>£5.20   | -Non standard size<br>BR Cabside numbers 0-9   |            |
| BRY01/02   | 2<br>£5.20   | BR Cabside numbers 0-9   |            |
| BRY01/03   | 3<br>£6.40   | BR Cabside numbers 0-9 1/2" high.  |            |
| BRY01/05   | 5<br>£8.50   | BR Cabside numbers 0-9 11/16" high.  |            |
| BRY01/07   | 7<br>£11.60  | BR Cabside numbers 0-9 1 1/16" high.   |            |
| BRY01/10   | 10<br>£17.50 | BR Cabside numbers 0-9   |            |
| BRY01a/1   | 1<br>£5.20   | BR Cabside numbers 0-9 (White, Scottish Region)  |            |
| BRY01a/2   | 2<br>£5.20   | BR Cabside numbers 0-9 (White, Scottish Region)  |            |
| BRY01a/3   | 3<br>£6.40   | BR Cabside numbers 0-9 (White, Scottish Region)  |            |
| BRY01a/5   | 5<br>£8.50   | BR Cabside numbers 0-9 (White, Scottish Region)  |            |
| BRY01a/7   | 7<br>£11.60  | BR Cabside numbers 0-9 (White, Scottish Region)  |            |
| BRY04/3    | 3<br>£4.10   | Additional cabside '0' digits, for BR Stds etc.  | As BRY01/3 |
| BRY04/5    | 5<br>£4.10   | Additional cabside '0' digits, for BR Stds etc.  | As BRY01/5 |
| BRY04/7    | 7<br>£4.10   | Additional cabside '0' digits, for BR Stds etc.  | As BRY01/7 |
| BRY05/3    | 3<br>£4.10   | BR Powercodes  |            |
| BRY05/5    | 5<br>£4.10   | BR Powercodes  |            |
| BRY05/7    | 7<br>£5.20   | NYA: BR Powercodes   |            |
| BRY05a/3   | 3<br>£5.20   | NYA: BR Powercodes (white)   |            |

|           |        |  |           |
|-----------|--------|--|-----------|
| BRY05a/5  | 5      | BR Powercodes (white)                                      |           |
|           | £5.20  |  |           |
| BRY05a/7  | 7      | BR Powercodes (white)                                      |           |
|           | £5.20  |  |           |
| BRY20/3   | 3      | NYA: 1948 'BRITISH RAILWAYS' lettering                     | Cream     |
| BRY20/5   | 5      | NYA: 1948 'BRITISH RAILWAYS' lettering                     | Cream     |
| BRY20/7   | 7      | NYA: 1948 'BRITISH RAILWAYS' lettering                     | Cream     |
| BRY21/3   | 3      | NYA: 1948 'BRITISH RAILWAYS' lettering                     | White     |
| BRY21/5   | 5      | NYA: 1948 'BRITISH RAILWAYS' lettering                     | White     |
| 57Lion/15 | 2      | BR Lion Holding Wheel                                      | 15mm high |
|           | £5.20  |  |           |
|           |        | Large G1 & small 2 1/2" gauge                              |           |
|           |        | Set of 3, to make forward facing pair or both left facing. |           |
| 57Lion/23 | 2      | BR Lion Holding Wheel                                      | 23mm high |
|           | £6.40  |  |           |
|           |        | Small 2 1/2" & large 3 1/2" gauges                         |           |
|           |        | Set of 3, to make forward facing pair or both left facing. |           |
| 57Lion/32 | 3      | BR Lion Holding Wheel                                      | 32mm high |
|           | £6.40  |  |           |
|           |        | Large 3 1/2" & small 5"                                    |           |
|           |        | Set of 3, to make forward facing pair or both left facing. |           |
| 57Lion/47 | 5      | BR Lion Holding Wheel                                      | 47mm high |
|           | £8.50  |  |           |
|           |        | Small 5" & large 7 1/4" gauges                             |           |
|           |        | Set of 3, to make forward facing pair or both left facing. |           |
| 57Lion/68 | 7      | BR Lion Holding Wheel (LH & RH)                            | 68mm high |
|           | £11.60 |  |           |
|           |        | Large 7 1/4" & small 10 1/2" gauges                        |           |
|           |        | Pair, facing left & right.                                 |           |



|         |       |                                 |
|---------|-------|---------------------------------|
| BRY02/1 | 1     | BR Overhead warning             |
|         | £4.10 |                                 |
| BRY02/2 | 2     | BR Overhead warning             |
|         | £4.10 |                                 |
| BRY02/3 | 3     | BR Overhead warning 9/16" high  |
|         | £4.10 |                                 |
| BRY02/5 | 5     | BR Overhead warning 3/4" high   |
|         | £5.20 |                                 |
| BRY02/7 | 7     | BR Overhead warning 1 1/8" high |
|         | £6.40 |                                 |

#### ***British Railways (Diesel Models)***

| <b><i>CatRef</i></b> | <b><i>Gauge Price</i></b> | <b><i>Description</i></b> | <b><i>Size</i></b> |
|----------------------|---------------------------|---------------------------|--------------------|
| BRY03/1              | 1                         | BR Arrows                 |                    |
|                      | £6.40                     |                           |                    |
|                      |                           | 6 pairs in 2 sizes        |                    |

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|          |        |  |
|----------|--------|--|
| BRY03/2  | 2      | NYA: BR Arrows                             |
|          | £4.10  |  |
| BRY03/3  | 3      | BR Arrows                                  |
|          | £5.20  |  |
| BRY03/5  | 5      | BR Arrows                                  |
|          | £6.40  |  |
| BRY03/7  | 7      | BR Arrows                                  |
|          | £8.50  |  |
| BRY15/01 | 1      | BR diesel numbers (1957-65) (square serif) |
|          | £5.20  |  |
|          |        | 8 sets 0-9 & 'D's                          |
| BRY15/02 | 2      | BR diesel numbers (1957-65) (square serif) |
|          | £6.40  |  |
| BRY15/03 | 3      | BR diesel numbers (1957-65) (square serif) |
|          | £6.40  |  |
| BRY15/05 | 5      | BR diesel numbers (1957-65) (square serif) |
|          | £8.50  |  |
| BRY15/07 | 7      | BR diesel numbers (1957-65) (square serif) |
|          | £8.50  |  |
| BRY16/1  | 1      | BR diesel numbers (1965 onwards)           |
|          | £5.20  |  |
| BRY16/3  | 3      | BR diesel numbers (1965 onwards)           |
|          | £6.40  |  |
| BRY16/5  | 5      | BR diesel numbers (1965 onwards)           |
|          | £8.50  |  |
| BRY16/7  | 7      | BR diesel numbers (1965 onwards)           |
|          | £11.60 |  |
| BRY17/1  | 1      | NYA: BR diesel numbers (1965 onwards)      |
|          | £5.20  |  |
| BRY17/3  | 3      | NYA: BR diesel numbers (1965 onwards)      |
|          | £6.40  |  |
| BRY17/5  | 5      | NYA: BR diesel numbers (1965 onwards)      |
|          | £8.50  |  |
| BRY17/7  | 7      | NYA: BR diesel numbers (1965 onwards)      |
|          | £8.50  |  |
| BRY18/3  | 3      | NYA: BR diesel locomotive TOPS panels      |
| BRY18/5  | 5      | NYA: BR diesel locomotive TOPS panels      |
| BRY18/7  | 7      | NYA: BR diesel locomotive TOPS panels      |
| BRY19/5  | 5      | NYA: BR diesel locomotive TOPS panels      |
| BRY19/7  | 7      | NYA: BR diesel locomotive TOPS panels      |

#### *Great Western Railway (GWR)*

| <i>CatRef</i> | <i>Gauge Price</i> | <i>Description</i> | <i>Size</i> |
|---------------|--------------------|--------------------|-------------|
| GWR03/2       | 2                  | 'GWR' lettering    |             |
|               | £6.40              |                    |             |
| GWR03/3       | 3                  | 'GWR' lettering    |             |
|               | £6.40              |                    |             |
| GWR03/5       | 5                  | 'GWR' lettering    |             |
|               | £8.50              |                    |             |
| GWR03/7       | 7                  | 'GWR' lettering    |             |
|               | £11.60             |                    |             |



|           |        |   |                    |
|-----------|--------|---|--------------------|
| GWR04/1   | 1      | Great Western 'Twin city' crest                   |                    |
|           | £6.40  |   |                    |
| GWR04/2   | 2      | Great Western 'Twin city' crest                   |                    |
|           | £8.50  |   |                    |
| GWR04/3   | 3      | Great Western 'Twin city' crest                   |                    |
|           | £8.50  |   |                    |
| GWR04/5   | 5      | Great Western 'Twin city' crest                   |                    |
|           | £8.50  |   |                    |
| GWR04/7   | 7      | Great Western 'Twin city' crest                   |                    |
|           | 11.60  |   |                    |
| GWR05/3   | 3      | GWR monogram                                      | 1 1/16" (27mm) dia |
|           | £6.40  |   |                    |
| GWR05/5   | 5      | GWR monogram                                      | 1.3/8" dia.        |
|           | £6.40  |   |                    |
| GWR06/1   | 1      | GWR buffer numbers                                |                    |
|           | £5.20  |   |                    |
| GWR06/10  | 10     | GWR buffer numbers                                |                    |
|           | £17.50 |   |                    |
| GWR06/2   | 2      | GWR buffer numbers                                | 1/4" high.         |
|           | £6.40  |   |                    |
| GWR06/3   | 3      | GWR buffer numbers                                | 3/8" high.         |
|           | £6.40  |   |                    |
| GWR06/5   | 5      | GWR buffer numbers                                | 1/2" high.         |
|           | £8.50  |   |                    |
| GWR06/7   | 7      | GWR buffer numbers                                |                    |
|           | £11.60 |   |                    |
| GWR07/1   | 1      | 'Great Western' lettering.                        |                    |
|           | £5.20  |   |                    |
| GWR07/3   | 3      | 'Great Western' lettering.                        |                    |
|           | £6.40  |   |                    |
| GWR07/5   | 5      | 'Great Western' lettering.                        | 1/2" high.         |
|           | £8.50  |   |                    |
| GWR07/7   | 7      | 'Great Western' lettering.                        |                    |
|           | £11.60 |   |                    |
| GWR08/7   | 7      | NYA: 'Great Western' lettering. (Cream lettering) |                    |
| GWR09/1   | 1      | GWR cabside route restriction discs & power codes |                    |
|           | £4.10  |   |                    |
| GWR09/2   | 2      | GWR cabside route restriction discs & power codes |                    |
|           | £5.20  |   |                    |
| GWR09/3   | 3      | GWR cabside route restriction discs & power codes |                    |
|           | £5.20  |   |                    |
| GWR09/5   | 5      | GWR cabside route restriction discs & power codes |                    |
|           | £6.40  |   |                    |
| GWR09/7   | 7      | GWR cabside route restriction discs & power codes |                    |
|           | £6.40  |   |                    |
| GWR10/1   | 1      | NYA: GWR cauliflower crest                        |                    |
|           | £6.40  |   |                    |
| GWR10/3   | 3      | NYA: GWR cauliflower crest                        |                    |
|           | £6.40  |   |                    |
| GWR10/5   | 5      | NYA: GWR cauliflower crest                        |                    |
|           | £8.50  |   |                    |
| GWR10/7   | 7      | NYA: GWR cauliflower crest                        |                    |
|           | £11.60 |   |                    |
| GWR11/7   | 7      | Shed allocation lettering for valances            |                    |
|           | £4.10  |   |                    |
| GWR20/7   | 7      | 'CAUTION' internal cab warning sign               |                    |
|           | £14.50 |   |                    |
| GWR21/7   | 7      | NYA: Replacement guage dials                      |                    |
|           | £6.40  |   |                    |
| GWRWagR/1 | 1      | GWR Wagon lettering (red)                         |                    |
|           | £6.40  |   |                    |

|             |        |                                       |
|-------------|--------|---------------------------------------|
| GWRWagR/3   | 3      | GWR Wagon lettering (red)             |
|             | £8.50  |                                       |
| GWRWagR/7   | 7      | GWR Wagon lettering (red)             |
|             | £11.60 |                                       |
| GWRWagW/7   | 7      | GWR Wagon lettering (white)           |
|             | £11.60 |                                       |
| GWRWagY/7   | 7      | GWR Wagon lettering (yellow)          |
|             | £11.60 |                                       |
| Scaleplate5 | 5      | Lost wax cast GWR cabside numberplate |
|             | £74.00 |                                       |
| ScalePlate7 | 7      | Lost wax cast GWR cabside numberplate |
|             | £96.00 |                                       |

***London & North Eastern Railway (LNER)***

| <b><i>CatRef</i></b> | <b><i>Gauge<br/>Price</i></b> | <b><i>Description</i></b>         | <b><i>Size</i></b> |
|----------------------|-------------------------------|-----------------------------------|--------------------|
| LNE02/1              | 1                             | LNER lettering (Passenger)        |                    |
|                      | £5.20                         |                                   |                    |
| LNE02/2              | 2                             | LNER lettering (Passenger)        | 1/2" high          |
|                      | £6.40                         |                                   |                    |
| LNE02/3              | 3                             | LNER lettering (Passenger)        | 3/4" high          |
|                      | £6.40                         |                                   |                    |
| LNE02/5              | 5                             | LNER lettering (Passenger)        | 1.0" high          |
|                      | £8.50                         |                                   |                    |
| LNE02/7              | 7                             | LNER lettering (Passenger)        |                    |
|                      | £11.60                        |                                   |                    |
| LNE03/1              | 1                             | LNER Cabside numerals (Passenger) | 7/16" high         |
|                      | £5.20                         |                                   |                    |
| LNE03/2              | 2                             | LNER Cabside numerals (Passenger) | 1/2" high          |
|                      | £6.40                         |                                   |                    |
| LNE03/3              | 3                             | LNER Cabside numerals (Passenger) | 3/4" high          |
|                      | £6.40                         |                                   |                    |
| LNE03/5              | 5                             | LNER Cabside numerals (Passenger) | 1 1/8" high        |
|                      | £8.50                         |                                   |                    |
| LNE03/7              | 7                             | LNER Cabside numerals (Passenger) |                    |
|                      | £11.60                        |                                   |                    |
| LNE08/1              | 1                             | LNER lettering (Freight)          |                    |
|                      | £5.20                         |                                   |                    |
| LNE08/2              | 2                             | LNER lettering (Freight)          |                    |
|                      | £6.40                         |                                   |                    |
| LNE08/3              | 3                             | LNER lettering (Freight)          |                    |
|                      | £6.40                         |                                   |                    |
| LNE08/5              | 5                             | LNER lettering (Freight)          |                    |
|                      | £8.50                         |                                   |                    |
| LNE08/7              | 7                             | LNER lettering (Freight)          |                    |
|                      | £11.60                        |                                   |                    |
| LNE09/1              | 1                             | LNER numerals (Freight)           |                    |
|                      | £5.20                         |                                   |                    |
| LNE09/2              | 2                             | LNER numerals (Freight)           |                    |
|                      | £6.40                         |                                   |                    |
| LNE09/3              | 3                             | LNER numerals (Freight)           |                    |
|                      | £6.40                         |                                   |                    |
| LNE09/5              | 5                             | LNER numerals (Freight)           |                    |
|                      | £8.50                         |                                   |                    |
| LNE09/7              | 7                             | LNER numerals (Freight)           |                    |
|                      | £11.60                        |                                   |                    |



***London, Midland & Scottish Railway (LMS)***

| <b><i>CatRef</i></b> | <b><i>Gauge<br/>Price</i></b> | <b><i>Description</i></b>  | <b><i>Size</i></b> |
|----------------------|-------------------------------|--|--------------------|
| LMS03/2              | 2<br>£6.40                    | LMS serif 14" letters  |                    |
| LMS03/3              | 3<br>£6.40                    | OUT OF STOCK: LMS serif 14" letters  | 3/4" high.         |
| LMS03/5              | 5<br>£8.50                    | LMS serif 14" letters  | 1.3/16" high.      |
| LMS03/7              | 7<br>£11.60                   | LMS serif 14" letters  |                    |
| LMS04/1              | 1<br>£5.20                    | LMS serif 14" letters  | 9.5mm High         |
| LMS04/2              | 2<br>£6.40                    | LMS serif 14" letters  |                    |
| LMS04/3              | 3<br>£6.40                    | LMS serif 14" letters  | 3/4" high.         |
| LMS04/5              | 5<br>£8.50                    | OUT OF STOCK: LMS serif 14" letters  | 1 3/16" high.      |
| LMS04/7              | 7<br>£11.60                   | LMS serif 14" letters  |                    |
| LMS05/3              | 3<br>£6.40                    | LMS serif 12" numbers  | 3/4" high.         |
| LMS05/3a             | 3<br>£6.40                    | OUT OF STOCK: LMS serif 10" numbers  | 5/8" high.         |
| LMS05/5              | 5<br>£8.50                    | LMS serif 12" numbers  | 1 1/16" high       |
| LMS05/7              | 7<br>£11.60                   | NYA: :LMS serif 12" numbers  |                    |
| LMS06/1              | 1<br>£5.20                    | LMS serif 12" numbers  | 9.5mm high         |
| LMS06/2              | 2<br>£6.40                    | LMS serif 12" numbers  |                    |
| LMS06/3              | 3<br>£6.40                    | LMS serif 12" numbers  | 3/4" high          |
| LMS06/3a             | 3<br>£6.40                    | LMS serif 10" numbers  | 5/8" high          |
| LMS06/5              | 5<br>£8.50                    | LMS serif 12" numbers  | 1 1/16" high       |
| LMS06/7              | 7<br>£11.60                   | LMS serif 12" numbers  | 1 1/2" high.       |
| LMS15/3              | 3<br>£5.20                    | Also suitable for 5"G 1923-27 livery.<br>NYA: LMS cabside powercodes (red) |                    |
| LMS15/5              | 5<br>£5.20                    | NYA: LMS cabside powercodes (red)  |                    |
| LMS15/7              | 7<br>£5.20                    | NYA: LMS cabside powercodes (red)  |                    |
| LMS16/3              | 3<br>£5.20                    | NYA: LMS cabside powercodes (black)  |                    |
| LMS16/5              | 5<br>£5.20                    | NYA: LMS cabside powercodes (black)  |                    |
| LMS16/7              | 7<br>£5.20                    | NYA: LMS cabside powercodes (black)  |                    |
| LMS07/2              | 2<br>£6.40                    | LMS 1936 style sans-serif letters  |                    |
| LMS07/3              | 3<br>£6.40                    | LMS 1936 style sans-serif letters  |                    |
| LMS07/5              | 5<br>£8.50                    | LMS 1936 style sans-serif letters  |                    |
| LMS07/7              | 7<br>£11.60                   | LMS 1936 style sans-serif letters  |                    |

|         |        |                                   |
|---------|--------|-----------------------------------|
| LMS08/2 | 2      | LMS 1936 style sans-serif letters |
|         | £6.40  |                                   |
| LMS08/3 | 3      | LMS 1936 style sans-serif letters |
|         | £6.40  |                                   |
| LMS08/5 | 5      | LMS 1936 style sans-serif letters |
|         | £8.50  |                                   |
| LMS08/7 | 7      | LMS 1936 style sans-serif letters |
|         | £11.60 |                                   |
| LMS09/2 | 2      | LMS 1936 style sans-serif numbers |
|         | £6.40  |                                   |
| LMS09/3 | 3      | LMS 1936 style sans-serif numbers |
|         | £6.40  |                                   |
| LMS09/5 | 5      | LMS 1936 style sans-serif numbers |
|         | £8.50  |                                   |
| LMS09/7 | 7      | LMS 1936 style sans-serif numbers |
|         | £11.60 |                                   |
| LMS10/2 | 2      | LMS 1936 style sans-serif numbers |
|         | £6.40  |                                   |
| LMS10/3 | 3      | LMS 1936 style sans-serif numbers |
|         | £6.40  |                                   |
| LMS10/5 | 5      | LMS 1936 style sans-serif numbers |
|         | £8.50  |                                   |
| LMS10/7 | 7      | LMS 1936 style sans-serif numbers |
|         | £11.60 |                                   |
| LMS11/3 | 3      | NYA: LMS 1946 syle letters        |
| LMS11/5 | 5      | NYA: LMS 1946 syle letters        |
| LMS12/3 | 3      | NYA: LMS 1946 syle numbers        |
| LMS12/5 | 5      | NYA: LMS 1946 syle numbers        |

***Southern Railway (SR)***

| <b><i>CatRef</i></b> | <b><i>Gauge<br/>Price</i></b> | <b><i>Description</i></b>               | <b><i>Size</i></b>                   |
|----------------------|-------------------------------|---|--------------------------------------|
| SRY01/1              | 1<br>£5.20                    | Southern Maunsell lettering (Old Stock) | Letters 3/16",<br><br>numbers 9/16"  |
| SRY01/2              | 2<br>£6.40                    | Southern Maunsell lettering             | Letters 1/4",<br><br>numbers 3/4"    |
| SRY01/3              | 3<br>£8.50                    | Southern Maunsell lettering             | Letters 7/16",<br><br>numbers 1 1/8" |
| SRY01/5              | 5<br>£11.60                   | Southern Maunsell lettering             | Letters 1/2",<br><br>numbers 1 1/2"  |
| SRY02/1              | 1<br>£5.20                    | NYA: SR Maunsell 'SOUTHERN'             |                                      |
| SRY02/2              | 2<br>£5.20                    | NYA: SR Maunsell 'SOUTHERN'             |                                      |
| SRY02/3              | 3<br>£6.40                    | NYA: SR Maunsell 'SOUTHERN'             |                                      |
| SRY02/5              | 5<br>£8.50                    | NYA: SR Maunsell 'SOUTHERN'             |                                      |
| SRY02/7              | 7<br>£11.60                   | NYA: SR Maunsell 'SOUTHERN'             |                                      |
| SRY03/1              | 1<br>£5.20                    | NYA: SR Maunsell numerals               |                                      |
| SRY03/2              | 2<br>£5.20                    | NYA: SR Maunsell numerals               |                                      |
| SRY03/3              | 3<br>£6.40                    | NYA: SR Maunsell numerals               |                                      |
| SRY03/5              | 5<br>£8.50                    | NYA: SR Maunsell numerals               |                                      |

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|         |        |                               |             |
|---------|--------|-------------------------------|-------------|
| SRY03/7 | 7      | NYA: SR Maunsell numerals     |             |
|         | £11.60 |                               |             |
| SRY04/3 | 3      | Southern "Sunshine" lettering | 5/8" high   |
|         | £11.60 |                               |             |
| SRY04/5 | 5      | Southern "Sunshine" lettering | 7/8" high   |
|         | £11.60 |                               |             |
| SRY04/7 | 7      | Southern "Sunshine" lettering | 1 1/4" high |
|         | £11.60 |                               |             |

*Traction engines & road vehicles*

| <i>CatRef</i> | <i>Gauge<br/>Price</i> | <i>Description</i>  | <i>Size</i>             |
|---------------|------------------------|---|-------------------------|
| TEW01         | 99<br>£11.60           | Wheel spoke 1   | 1/2" wide, 9" long      |
| TEW02         | 99<br>£8.50            | Wheel spoke 2   | 3/8" wide, 7" long      |
| TEW03         | 99<br>£6.40            | Wheel spoke 3   | 5/16" wide, 5" long     |
| TEW04         | 99<br>£6.40            | Wheel spoke 4   | 1/4" wide, 4" long      |
| TEW05         | 99<br>£5.20            | Wheel spoke 5   | 3/16" wide, 3 1/2" long |
| TEW06         | 99<br>£4.10            | OUT OF STOCK: Wheel spoke 6   | 1/8" wide, 2" long      |
| TEW07         | 99<br>£11.60           | Signwriter Sheet 1a (A-Z) 3/4"  | 3/4" high               |
| TEW07a        | 99<br>£11.60           | Signwriter Sheet 1 (A-Z) 1/2"   | 1/2" high               |
| TEW07b        | 99<br>£11.60           | Signwriter Sheet 1 (A-Z) 5/16"  | 5/16" high              |
| TEW08a        | 99<br>£11.60           | Signwriter Sheet 2 (A-Z & captions)                                       | 1/2" high               |
| TEW08b        | 99<br>£11.60           | OUT OF STOCK: Signwriter Sheet 2 (A-Z & captions)                         | 5/16" high              |
| TEW09         | 99<br>£45.00           | OUT OF STOCK: Burrell 3" scale transfer set                               |                         |
| TEW10         | 99<br>pan)£33.80       | OUT OF STOCK: Allchin 1 1/2" scale. Transfer set (less tender rear & spud |                         |

These are high quality waterslide transfers for railway and road steam models in all popular model engineers' gauges. They are faithful reproductions of prototype livery elements with accurate colour reproduction. Application is very straightforward and full instructions are supplied with each item. When correctly applied, they should enhance your model for many years. Due to the wide variety of formulations available, the combination of underlying paint finish, transfer and varnish should be tested before being applied to your model. Unless otherwise specified, all numerals are supplied in pairs of 0–9 and company lettering and crests are supplied in pairs.

## Union cocks from Stuart Models (see also Draincocks)

|                    |               |        |
|--------------------|---------------|--------|
| 1/8" pipe (72001)  | 3/16 x 40 tpi | £22.65 |
| 5/32" pipe (72002) | 1/4 x 32 tpi  | £24.80 |
| 3/16" pipe (72003) | 5/16 x 26 tpi | £27.00 |

Also suitable for use as draincocks on stationary and marine engines.



## Union nuts

to suit various ME pipe sizes in packs of 10

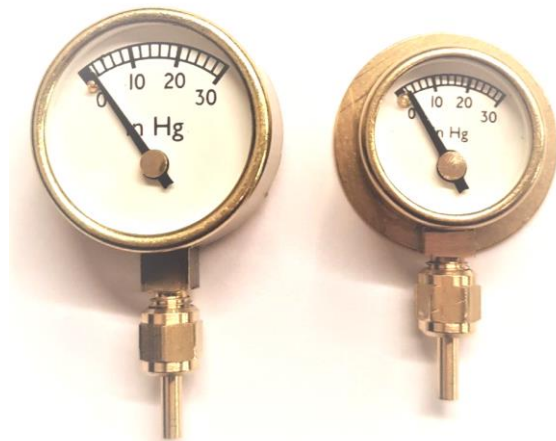
| Thread    | Pipe           |       |  | Thread     | Pipe |        |
|-----------|----------------|-------|--|------------|------|--------|
| 3/16 x 40 | 3/32"          | £4.20 |  | 3/8" x 26  | 1/4  | £5.50  |
| 7/32 x 40 | Inside sp 1/8" | £4.00 |  | 3/8" x 32  | 1/4  | £5.50  |
| 1/4 x 32  | 1/8" 5/32"     | £4.00 |  | 3/8" x 40  | 1/4  | £5.50  |
| 1/4 x 40  | 1/8" 5/32"     | £4.00 |  | 7/16" x 26 |      | £10.00 |
| 5/16 x 26 | 3/16"          | £4.20 |  | 7/16" x 32 |      | £10.00 |
| 5/16 x 32 | 3/16"          | £4.20 |  | 1/2" x 26  | 5/16 | £10.00 |
| 5/16 x 40 | 3/16"          | £4.20 |  | 9/16" x 26 | 3/8  | £25.40 |

9/16 x 26 available individually £2.75 each

## Vacuum gauges

In various sizes, plain or flanged, style can be matched to pressure gauge. Gauges are calibrated 0-30" Hg = 14.7 psig.

| Standard type | Range    | Price  |
|---------------|----------|--------|
| 3/4" dia      | 0-30" Hg | £32.00 |
| 1" dia        | 0-30" Hg | £32.00 |
| 1 5/8" dia    | 0-30" Hg | £30.00 |
| 2" dia        | 0-30" Hg | £39.00 |
| Flanged type  |          |        |
| 3/4" dia      | 0-30" Hg | £35.00 |
| 1" dia        | 0-30" Hg | £35.00 |
| 1 5/8" dia    | 0-30" Hg | £40.00 |
| 2" dia        | 0-30" Hg | £40.00 |



## Viton Balls – see also Nitrile Balls

|       | Per ball |
|-------|----------|
| 1/8"  | £2.15    |
| 5/32" | £2.25    |
| 3/16" | £2.30    |
| 1/4"  | £2.50    |

## Wash out plugs

Dummy wash out plugs

|              |       |
|--------------|-------|
| 5" gauge     | £2.70 |
| 7 1/4" gauge | £3.00 |



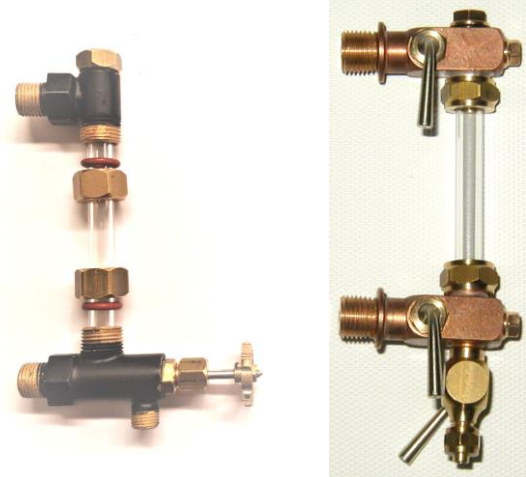
## Water Gauges

A wide range of gauges ranging from the simple plain type to the precision three cock bronze and gunmetal types by specialist suppliers such as Rob Barker and Dave Noble. Left and right handed available. Linked cocks available in smaller sizes.

| Plain with blowdown valve | Price  |
|---------------------------|--------|
| 3/16 x 40 4mm glass       | £26.00 |
| ¼ x 32 5mm glass          | £26.00 |
| ¼ x 40 5mm glass          | £26.00 |
| 5/16 x 32 6mm glass       | £30.00 |
| 3/8 x 32 7mm glass        | £32.00 |

¼ x 32 also available without blowdown £24.30

| 3 cock type                      | Price   |
|----------------------------------|---------|
| ¼ x 40 (Noble)                   | £105.00 |
| 5/16 x 32 5mm (Noble)            | £105.00 |
| 3/8 x 32, 5mm glass (for Winson) | £105.00 |
| 3/8 x 32 7mm glass (Barker)      | £148.70 |
| 1/8 BSP 8mm glass                | £148.70 |
| ¼ BSP 10 mm glass                | £156.00 |
| 3/8 BSP                          | £254.40 |
| ½ x 26 10mm glass                | £156.00 |
| 5/16 x 32 7mm glass              | £148.70 |
| 3/8 x 32 8mm glass (Noble)       | £148.70 |



## Water valves for tender or tank fitting

90 degree on-off valves in a variety of sizes with extended operating arms available separately. Used for water supply to injectors, etc where they provide good flow and handle indicates the position of the valve.  
T shaped handle for 5/32" valve.

|                 |        |
|-----------------|--------|
| 5/32 pipe       | £17.00 |
| 3/16 pipe       | £19.00 |
| ¼ pipe          | £20.00 |
| 5/32 pipe 3 way | £21.00 |
| 3/16 pipe 3 way | £23.00 |
| ¼ pipe 3 way    | £25.00 |
| Handle          | £5.00  |



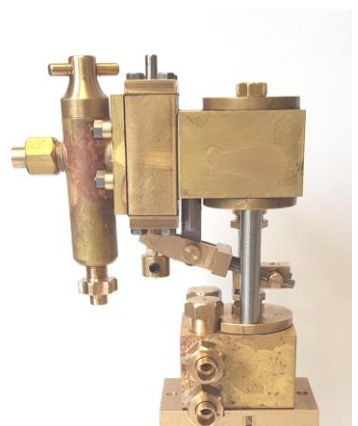
## Weir Pumps (Steam Operated Feed Pump)

These ready to run Weir pumps are a useful alternative to axle pumps and injectors for boiler feed. Easily mounted on the footplate of your loco, they add operational interest to the model. Simply by controlling the steam input. (On average, feeds 1 ¼ pints per minute)

|                               |         |
|-------------------------------|---------|
| Weir pump rtr with lubricator | £370.00 |
|-------------------------------|---------|

Approx. size 3.5" x 3.25"

N.B Drawings available for other weir pumps.





## Whistles – see also Chime Whistles

in various sizes of plain type and recently introduced chime whistles.  
Illustration (right) shows 3 and 4" scale combined whistle & valves for traction engines, etc.

| Loco type (below) | Length | Use separate valve |
|-------------------|--------|--------------------|
| 3/8" dia          | 2 3/4" | £12.00             |
| 1/2" dia          | 3 1/2" | £14.00             |
| 5/8" dia          | 4 3/8" | £15.00             |



| Traction engine type (above) | With lever valve |
|------------------------------|------------------|
| 3" scale 5/16 x 32           | £67.50           |
| 4" scale 1/8 BSP             | £93.00           |

## Whistle valves

|  |        |
|--|--------|
| Lever type reversible handle 1/4" x 40 pictured right    | £20.00 |
| Lever type reversible handle 5/16 x 32 (used on Polly's) | £20.00 |
| Lever type 1/4" x 40                                     | £19.00 |
| Lever type 5/16" x 32                                    | £19.00 |

Standard backhead fittings available. Large valve to suit chime whistle – see chime whistles.



## Fine scale LMS dummy whistle

Stanier LMS fine scale dummy whistle

|              |        |
|--------------|--------|
| 3 1/2" gauge | £23.00 |
| 5" gauge     | £25.00 |
| 7 1/4" gauge | £28.00 |



(please see Catalogue Volume 2 for other fine scale dummy whistles)

## Practical Scale including loco designs & stationary engines

See part 2 of our catalogue for drawing, castings and parts for our fine scale loco models and stationary engines. This part of the catalogue includes the stationary engine models designed by Anthony Mount in the Heritage Steam Southwest series, our own stationary engines, the models by Stuart Turner and of course our growing range of fine scale model locomotive designs based on both narrow gauge and standard gauge prototypes. Designers include Neville Evans, Peter Rich, David Aitken, Nick Feast, Ken Swan and Derek Brown.

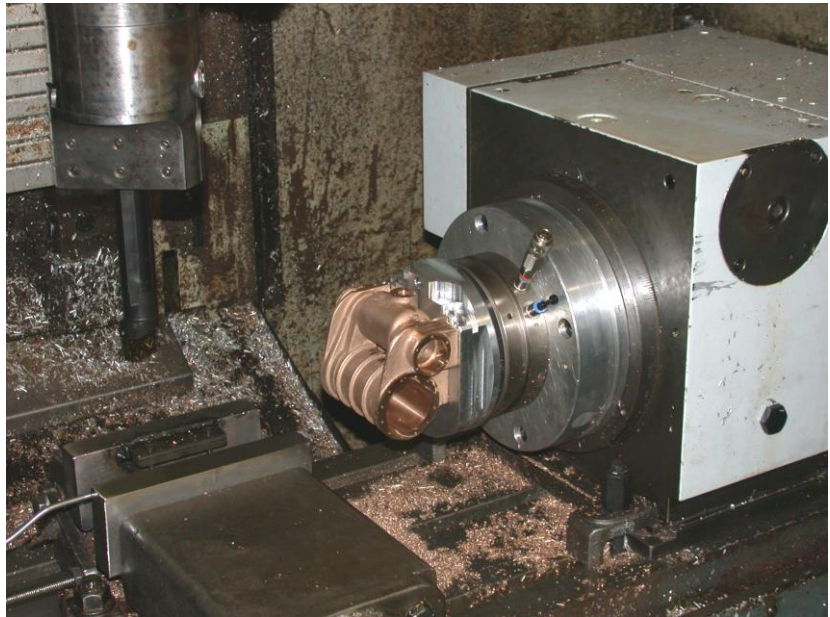


## Engineering Services

Polly Model Engineering Limited has a comprehensively equipped manufacturing workshop, primarily engaged in the manufacture of the renowned Polly range of 5" gauge locomotive kits. We also manufacture a significant proportion of the items listed in this catalogue. With a good understanding of the requirements of the model engineering hobby, we are well placed to undertake production machining for fellow traders.

### Equipment:

CNC Turning up to 10" diameter using Colchester Tornado Lathe  
3 and 4 axis CNC Milling using Bridgeport Machining Centres  
CNC Sliding Head turning up to 20mm using 7 axis Star Delapena Cylinder honing machine, J&S Surface grinder, vertical and horizontal milling, etc.  
and other specialised machines.



### Practical Scale:

For builders of our Practical Scale models, such as Penrhos Grange, we offer the facility to supply some major castings (e.g. wheels and cylinders) machined to drawing.

### Trade Supplies:

We are also able to manufacture wheels, axles and other turned or milled components. We currently supply a number of specialist manufacturers in the hobby and have undertaken work for numerous clubs. So whether you are a supplier to the model engineering hobby or a club building a rake of riding cars, ask us to give you a quote for your machining requirements. With our understanding of the requirements of model engineers, you can be assured of a job well done at a fair price.

### Non-Catalogue Requirements

In addition to the items listed in this catalogue, we may well be able to supply any of your other model engineering requirements. Whatever your requirement, give us a call and see how we can help.

## How to Order

Orders may be placed in writing, by email, telephone or fax.

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There is no minimum order value and no surcharge for payment by credit card.



## Order Form

You may find it helpful to use our order form. The form is also available for download from our website: [www.pollymodelengineering.co.uk](http://www.pollymodelengineering.co.uk) Completed forms may be posted, faxed, or emailed to us, telephone orders are also welcomed. Customers ordering for payment by credit/debit card should remember that in order to process your payment we need the 3 digit security code from the reverse of your card, in addition to the usual card information. In the interests of security, card details should not be sent by email.

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Personal callers are welcome at the workshop in Long Eaton (close to junction 25 on M1 motorway). Here you will have the opportunity to peruse our stock and see where the Polly locos are made. Please telephone before calling, to ensure that we are available (exhibition commitments, etc). Staff are normally available between 9:00 am and 4.30pm weekdays (lunch 1:00 till 2:00pm).

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**NG10 3ND**

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