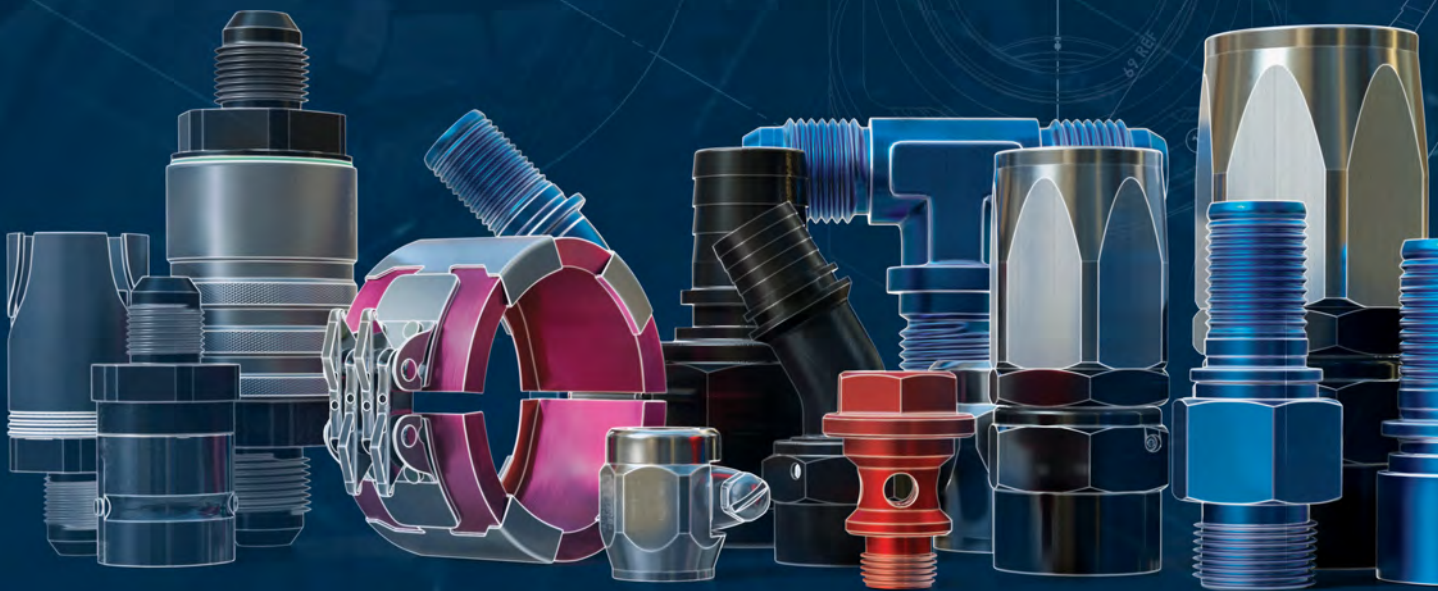


PARTS CATALOGUE

PERFORMANCE FLUID TRANSFER





24 REF

SECTION A-A

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EOM

KUKATEC

Hanford Sensors

GR TOYOTA GAZOO Racing United Kingdom

EOM DEVELOPMENTS LTD

Close Brothers Asset Finance

GOODYEAR MOTUL

Hanford Sensors

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Introduction

Founded in 1969, Goodridge has grown from a small unit in the Devon market town of Totnes, UK, to a global organisation, now manufacturing in ten facilities spread across nine countries.

Goodridge manufactures and supplies fluid transfer assemblies, hose and fittings to world leading racing teams; competing in **F1, INDYCAR, NASCAR, WEC, WRC, BTCC, WTCR, MOTO GP, WSBK, BSB** and more.

Our continued success is built on close working relationships with our customers;

Goodridge understands that finding the right solution can be challenging and therefore we have tailored this catalogue with a customer focus, adding information that will help guide you to the most suitable solution for the application.

Renowned for quality and functionality, Goodridge carries the following quality standards.

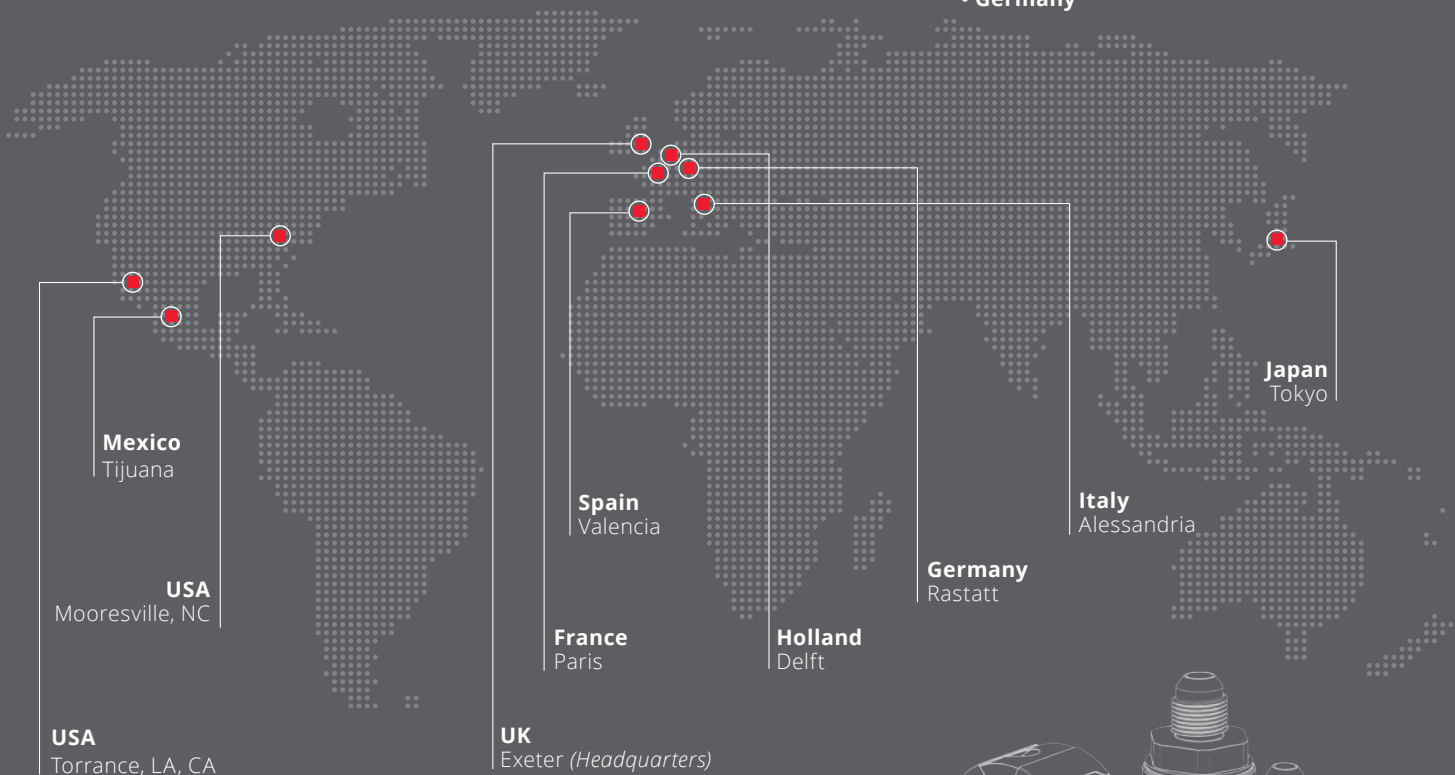
- **ISO9001:2015**
- **IATF16949:2016**
- **TUV/DOT/ ADR/ CQC**
- **FMVSS106**
- **JLRQ**
- **VAG Grade A**
- **Ford Q1**



This catalogue is backed by a global network of Goodridge dealers and distributors. For bespoke applications, custom hose assemblies and mobile plumbing services please contact one of the Goodridge facilities directly.

Goodridge locations:

- **UK**
- **France**
- **Spain**
- **Netherlands**
- **Germany**
- **Italy**
- **USA**
- **Mexico**
- **Japan**



Dealer and distributor list:
www.goodridge.com/distributors

GOODRIDGE



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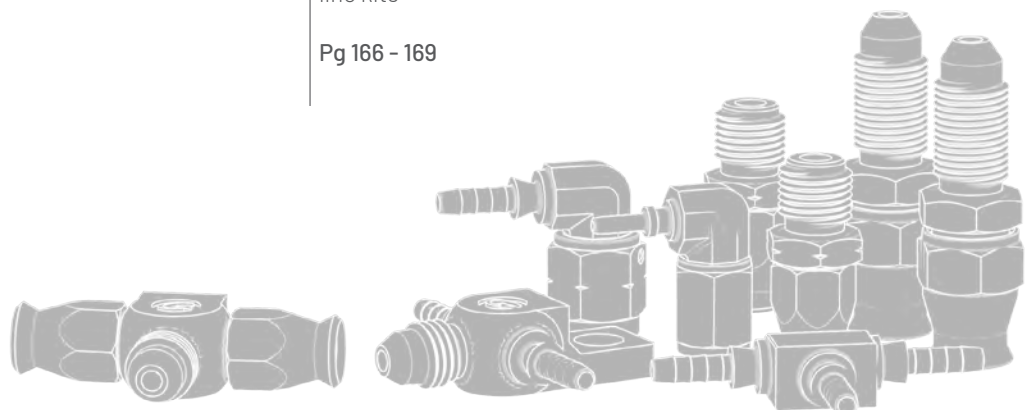
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Fuel, Oil, Coolant, Hydraulics, Methanol & Air

| Hose Range | Key Benefits | Key Features | Application | Please note |
|--|--|--|--|---|
| <p>G-Line Ultra 960 & 860</p>  | <ul style="list-style-type: none"> • Highest burst pressures • Highest temp resistance (180° C) • Highest vacuum resistance • Highest flow rate • PTFE - Safe to run 'in cockpit' | <ul style="list-style-type: none"> • Smooth bore • Helically wound coil • PTFE lined aramid fibre/ Stainless steel braid | <ul style="list-style-type: none"> • Race Fuels • Oil • Coolant • Brake fluid • Methanol • Air | <p>Crimp fitting only</p> |
| <p>G-Line XF 910 & 811</p>  | <ul style="list-style-type: none"> • Super light weight • High flow rate • Compatible with crimp and reusable fittings • PTFE - Safe to run 'in cockpit' | <ul style="list-style-type: none"> • Smooth bore • Reusable fitting compatible • PTFE lined aramid fibre/ Stainless steel braid | <ul style="list-style-type: none"> • Race Fuels • Oil • Coolant • Brake fluid • Methanol • Air | |
| <p>G-Line 710</p>  | <ul style="list-style-type: none"> • Tightest bend radius • PTFE - Safe to run 'in cockpit' | <ul style="list-style-type: none"> • Fully convoluted • PTFE lined • Aramid fibre braid | <ul style="list-style-type: none"> • Race Fuels • Oil • Coolant • Brake fluid • Methanol • Air | <p>710 is Draw swage only</p> |
| <p>G-Flex 711</p>  | <ul style="list-style-type: none"> • Highest temp rated convoluted hose • PTFE - Safe to run 'in cockpit' | <ul style="list-style-type: none"> • Convoluted • PTFE lined • Aramid fibre braid | <ul style="list-style-type: none"> • Race Fuels • Oil • Coolant • Methanol • Air | |
| <p>600 series (AN-04 to AN-08)</p>  | <ul style="list-style-type: none"> • PTFE - Safe to run 'in cockpit' | <ul style="list-style-type: none"> • PTFE lined • Stainless Steel braided • Compatible with crimp (HP) /reusable (MP) fittings | <ul style="list-style-type: none"> • Fuel • Oil • Water • Clutch • Dampers • Brake fluid • Hydraulic • Airjack • Pneumatics | <p>High pressure & medium pressure variants available</p> |
| <p>200 series</p>  | <ul style="list-style-type: none"> • Compatible with 'push fit' applications | <ul style="list-style-type: none"> • Smooth bore • Integral stainless-steel reinforced elastomer with hi-tensile outer stainless-steel braid | <ul style="list-style-type: none"> • Fuel • Oil • Water • Methanol • Air | <p>Not suitable for use 'in cockpit'</p> |




Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

Fuel, Oil, Coolant, Methanol & Air

| Hose Range | Key Benefits | Key Features | Application | Please note |
|--|--|---|--|-----------------------------------|
| 536 & TU25  | <ul style="list-style-type: none"> • Push fit application | <ul style="list-style-type: none"> • Smooth bore • Reinforced internal textile braiding | <ul style="list-style-type: none"> • Oil • Coolant • Air • Water | Not suitable for use 'in cockpit' |

Brakes, Clutch, Hydraulics & Pneumatics

| Hose Range | Key Benefits | Key Features | Application | Please note |
|---|---|---|--|---|
| 600 series (AN-02 & AN-03)  | <ul style="list-style-type: none"> • Compatible with all brake and clutch fluids • PTFE - Safe to run 'in cockpit' • Compatible with crimp & reusable fittings | <ul style="list-style-type: none"> • PTFE lined • Stainless Steel braided Compatible with crimp/reusable fittings • Available in a range of external PVC colours | <ul style="list-style-type: none"> • Brake lines / Clutch line • Hydraulics / Pneumatics | |
| 700 series  | <ul style="list-style-type: none"> • Super lightweight • Compatible with all brake and clutch fluids • PTFE - Safe to run 'in cockpit' | <ul style="list-style-type: none"> • PTFE lined aramid fibre braided | <ul style="list-style-type: none"> • Pressure gauge lines • Fuel injection • Fire extinguisher systems • Nitrous systems • Clutch lines | Crimp fittings only Competition use only |
| Buildaline  | <ul style="list-style-type: none"> • Customisable for any application | <ul style="list-style-type: none"> • Cut to length 'in-house' • Pressure tested 'in house' • Diverse fitting range available | <ul style="list-style-type: none"> • Brake lines | FMVSS 106 and DOT compliant |



GOODRIDGE

www.goodridge.com



01

G-LINE ULTRA SERIES
HOSE AND FITTINGS

GOODRIDGE

G-Line Ultra series

G-Line Ultra 860 & 960 are the most robust hoses in the Goodridge range; used by motorsport teams globally who require the highest level of protection from temperature, high pressure, vacuum resistance and kink resistance.

Similar to the Goodridge G-Line XF range, G-Line Ultra features a smooth bore, externally convoluted, carbon impregnated, anti-static PTFE liner. In addition, the G-Line Ultra range features a helically wound high tensile 316 stainless steel coil, seated between the external convolutions of the PTFE hose liner. The coil increases burst pressures, vacuum resistance and kink resistance.

G-Line Ultra is compatible with 960 crimp fittings and must be assembled using specialist equipment. Double swivel tail options are available to aid with alignment. The G-Line Ultra hose range is a popular choice for leading motorsport teams.

Benefits:

- Uninterrupted flow
- Burst pressure up to 6090 PSI / 420 BAR (AN-06)
- Temperature resistance from -40°C to +180°C
- Vacuum resistance to -13.05 PSI / -0.9 BAR
- Bend radius to 25mm (AN-06)

Features:

- Enlarged smooth bore
- Stainless steel helically wound coil
- PTFE lined
- Aramid fibre / Stainless steel braided option
- SAE J1737 compliant

Which hose do I need?

G-Line Ultra hose comparison chart:

| Hose range | Lightest weight | Highest temp resistance | Tightest bend radius | Additional external protection | Fitting type |
|------------|-----------------|-------------------------|----------------------|--------------------------------|--------------|
| 960 | X | | | | Crimp |
| 860 | | X | X | X | Crimp |

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible fittings:

960 Ultra lightweight crimp fittings (Not compatible with reusable fittings)

Please Note:

Volumetric expansion and flow data available on request

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Material:

Anti-static PTFE smoothbore, aramid fibre braid

Compatible fittings:

960 Ultra Lightweight crimp fittings (Not compatible with reusable fittings)

Notes:

Collars must be purchased separately.

G-LINE ULTRA 960

The G-Line Ultra hose range is the 'go to' hose for high burst pressure, vacuum and kink resistance.

The G-Line Ultra range features a helically wound high tensile 316 stainless steel coil, seated between the external convolutions of the smooth bore PTFE hose liner. This feature increases burst pressures, vacuum resistance and kink resistance over a conventional PTFE lined smooth bore hose.

The 960 version features an aramid fibre outer braid, making the hose ideal when weight saving is critical.



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Outer Diameter mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|----------|--------------|------------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-----------------------------|-----------------------|
| 960-06 | -6 | 9,94 (0,39) | 13,59 (0,54) | 140 (2031) | 420 (6092) | 0,10 (0,067) | 19,0 (0,75) | -40/+180 (40/+356) |
| 960-08 | -8 | 13,20 (0,52) | 17,60 (0,69) | 122 (1769) | 367 (5323) | 0,18 (0,121) | 28,0 (1,10) | -40/+180 (40/+356) |
| 960-10 | -10 | 16,70 (0,66) | 21,60 (0,85) | 113 (1639) | 341 (4945) | 0,26 (0,175) | 32,0 (1,26) | -40/+180 (40/+356) |
| 960-12 | -12 | 20,05 (0,79) | 25,15 (0,99) | 105 (1523) | 315 (4568) | 0,31 (0,208) | 35,0 (1,38) | -40/+180 (40/+356) |
| 960-16 | -16 | 26,10 (1,03) | 32,35 (1,27) | 87 (1262) | 262 (3780) | 0,50 (0,336) | 50,0 (1,97) | -40/+180 (40/+356) |
| 960-20 | -20 | 32,60 (1,28) | 39,20 (1,54) | 78 (1131) | 236 (3423) | 0,74 (0,500) | 70,0 (2,76) | -40/+180 (40/+356) |

Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 180°C.

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Material:

Anti-static PTFE smoothbore, stainless-steel outer braid

Compatible fittings:

960 Ultra Lightweight crimp fittings (Not compatible with any reusable fittings)

Notes:

Collars must be purchased separately.

G-LINE ULTRA 860

The G-Line Ultra hose range is the 'go to' hose for high burst pressure, vacuum resistance and kink resistance.

The G-Line Ultra range features a helically wound high tensile 316 stainless steel coil, seated between the external convolutions of the smooth bore PTFE hose liner. This feature increases burst pressures, vacuum resistance and kink resistance over a conventional PTFE lined smooth bore hose.

The 860 version features a stainless-steel outer braid, offering the highest level of protection from abrasion, tighter bend radius and higher temperature resistance.



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Outer Diameter mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|----------|--------------|------------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-----------------------------|-----------------------|
| 860-06 | -6 | 9,94 (0,39) | 13,26 (0,52) | 140 (2031) | 420 (6092) | 0,14 (0,094) | 19,0 (0,75) | -73/+260 (-99/+500) |
| 860-08 | -8 | 13,26 (0,52) | 17,60 (0,69) | 122 (1769) | 367 (5323) | 0,29 (0,194) | 28 (1,10) | -73/+260 (-99/+500) |
| 860-10 | -10 | 17,60 (0,69) | 21,50 (0,85) | 113 (1639) | 341 (4945) | 0,35 (0,235) | 32,0 (1,26) | -73/+260 (-99/+500) |
| 860-12 | -12 | 24,90 (0,98) | 24,90 (0,98) | 105 (1523) | 315 (4568) | 0,40 (0,690) | 35,0 (1,38) | -73/+260 (-99/+500) |
| 860-16 | -16 | 31,80 (1,25) | 31,80 (1,25) | 87 (1262) | 262 (3780) | 0,63 (0,423) | 50,0 (1,97) | -73/+260 (-99/+500) |

Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 260°C.

960 JIC fittings

Goodridge 960 series crimp fittings are specifically designed for the G-Line Ultra 960 and 860 hoses.

The 960 fittings combine a specially designed shortened tail form for reliability and light weight; available in both forged and swept body, from straight to 180 degrees bend angle options.

Fitting type:

Crimp

Fluid applications:

Fuel, Oil, Water, Methanol and Pneumatics

Compatible hose:

G-Line Ultra 960 and 860

Material:

D = Aluminium (Black)

Notes:

Collars must be purchased separately.

960-01



Straight female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 960-0106 | -06 | 9/16 x 18 | D |
| 960-0108 | -08 | 3/4 x 16 | D |
| 960-0110 | -10 | 7/8 x 14 | D |
| 960-0112 | -12 | 1 1/16 x 12 | D |
| 960-0116 | -16 | 1 5/16 x 12 | D |
| 960-0120 | -20 | 1 5/8 x 12 | D |

960-45



45° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 960-4506 | -06 | 9/16 x 18 | D |
| 960-4508 | -08 | 3/4 x 16 | D |
| 960-4510 | -10 | 7/8 x 14 | D |
| 960-4512 | -12 | 1 1/16 x 12 | D |

960-46



45° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 960-4606 | -06 | 9/16 x 18 | D |
| 960-4608 | -08 | 3/4 x 16 | D |
| 960-4610 | -10 | 7/8 x 14 | D |
| 960-4612 | -12 | 1 1/16 x 12 | D |
| 960-4616 | -16 | 1 5/16 x 12 | D |
| 960-4620 | -20 | 1 5/8 x 12 | D |

960-90



90° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 960-9006 | -06 | 9/16 x 18 | D |
| 960-9008 | -08 | 3/4 x 16 | D |
| 960-9010 | -10 | 7/8 x 14 | D |
| 960-9012 | -12 | 1 1/16 x 12 | D |

960-91



90° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|--------------|--------------|-------------|-----|
| 960-9106 | -06 | 9/16 x 18 | D |
| 960-9106-M14 | -06 | M14 x 1,5 | D |
| 960-9108 | -08 | 3/4 x 16 | D |
| 960-9110 | -10 | 7/8 x 14 | D |
| 960-9112 | -12 | 1 1/16 x 12 | D |
| 960-9116 | -16 | 1 5/16 x 12 | D |
| 960-9120 | -20 | 1 5/8 x 12 | D |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

960-120

120° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|-------------|--------------|-------------|-----|
| 960-12006 | -06 | 9/16 x 18 | D |
| 960-12008 | -08 | 3/4 x 16 | D |
| 960-12010 • | -10 | 7/8 x 14 | D |
| 960-12012 | -12 | 1 1/16 x 12 | D |
| 960-12016 • | -16 | 1 5/16 x 12 | D |

960-150

150° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|-------------|--------------|-------------|-----|
| 960-15006 | -06 | 9/16 x 18 | D |
| 960-15008 | -08 | 3/4 x 16 | D |
| 960-15010 • | -10 | 7/8 x 14 | D |
| 960-15012 | -12 | 1 1/16 x 12 | D |
| 960-15016 • | -16 | 1 5/16 x 12 | D |

960-180

180° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|-------------|--------------|-------------|-----|
| 960-18006 | -06 | 9/16 x 18 | D |
| 960-18008 | -08 | 3/4 x 16 | D |
| 960-18010 • | -10 | 7/8 x 14 | D |
| 960-18012 | -12 | 1 1/16 x 12 | D |
| 960-18016 • | -16 | 1 5/16 x 12 | D |

96776

Straight banjo

| Part No. | To suit hose | Hole size | Mat |
|---------------|--------------|-----------|-----|
| 96776-06-M12D | -06 | M12 x 1,5 | D |
| 96776-06-M14D | -06 | M14 x 1,5 | D |

960 JIC fittings

Goodridge 960 series crimp fittings are specifically designed for the G-Line Ultra 960 and 860 hoses.

The 960 fittings combine a specially designed shortened tail form for reliability and light weight; available in both forged and swept body, from straight to 180 degrees bend radius options.

- **Made to order only**

Fitting type:

Crimp

Fluid applications:

Fuel, Oil, Water, Methanol and Pneumatics

Compatible hose:

G-Line Ultra 960 and 860

Material:

D = Aluminium (Black)

Notes:

Collars must be purchased separately.



All 960 & 860 hose assemblies must be assembled by trained Goodridge personnel. Please contact Goodridge directly or find an approved Goodridge G-Tech centre at www.goodridge.com/distributors

960 JIC fittings (made to order only)

An extended range of 960 crimp fittings are also available on a 'special order' basis.

Please contact Goodridge directly for more information.

Fitting type:

Crimp

Fluid applications:

Fuel, Oil, Water, Methanol and Pneumatics

Compatible hose:

G-Line Ultra 960 and 860

Material:

D = Aluminium (Black)

Notes:

Collars must be purchased separately.

960-30



30° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 960-3008 | -08 | 3/4 x 16 | D |
| 960-3010 | -10 | 7/8 x 14 | D |
| 960-3012 | -12 | 1 1/16 x 12 | D |
| 960-3016 | -16 | 1 5/16 x 12 | D |

960-60



60° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 960-6008 | -08 | 3/4 x 16 | D |
| 960-6010 | -10 | 7/8 x 14 | D |
| 960-6012 | -12 | 1 1/16 x 12 | D |
| 960-6016 | -16 | 1 5/16 x 12 | D |

960 Double Swivel JIC fittings

The 960 fitting series range is available in select double swivel options, fittings can be aligned upon installation - no need to align the fitting prior to crimping.

Please note: An extended range of 960 Double Swivel fittings are available for 'special order'

Please contact Goodridge directly for more information.

Fitting type:

Crimp

Fluid applications:

Fuel, Oil, Water, Methanol and Pneumatics

Compatible hose:

G-Line Ultra 960 and 860

Material:

D = Aluminium (Black)

Notes:

Collars must be purchased separately.

9945



Double swivel forged 45° female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 9945-06 | -06 | 9/16 x 18 | D |
| 9945-08 | -08 | 3/4 x 16 | D |
| 9945-10 | -10 | 7/8 x 14 | D |
| 9945-12 | -12 | 1 1/16 x 12 | D |

9990



Double swivel forged 90° female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 9990-06 | -06 | 9/16 x 18 | D |
| 9990-08 | -08 | 3/4 x 16 | D |
| 9990-10 | -10 | 7/8 x 14 | D |
| 9990-12 | -12 | 1 1/16 x 12 | D |

9991



Double swivel swept tube 90° female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 9991-08 | -08 | 3/4 x 16 | D |
| 9991-10 | -10 | 7/8 x 14 | D |
| 9991-12 | -12 | 1 1/16 x 12 | D |
| 9991-16 | -16 | 1 5/16 x 12 | D |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

9930

Double swivel swept tube 30° female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 9930-08 | -08 | 3/4 x 16 | D |
| 9930-10 | -10 | 7/8 x 14 | D |
| 9930-12 | -12 | 1 1/16 x 12 | D |
| 9930-16 | -16 | 1 5/16 x 12 | D |

9946

Double swivel swept tube 45° female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 9946-08 | -08 | 3/4 x 16 | D |
| 9946-10 | -10 | 7/8 x 14 | D |
| 9946-12 | -12 | 1 1/16 x 12 | D |
| 9946-16 | -16 | 1 5/16 x 12 | D |

9960

Double swivel swept tube 60° female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 9960-08 | -08 | 3/4 x 16 | D |
| 9960-10 | -10 | 7/8 x 14 | D |
| 9960-12 | -12 | 1 1/16 x 12 | D |
| 9960-16 | -16 | 1 5/16 x 12 | D |

99120

Double swivel swept tube 120° female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 99120-08 | -08 | 3/4 x 16 | D |
| 99120-10 | -10 | 7/8 x 14 | D |
| 99120-12 | -12 | 1 1/16 x 12 | D |
| 99120-16 | -16 | 1 5/16 x 12 | D |

99150

Double swivel swept tube 150° female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 99150-08 | -08 | 3/4 x 16 | D |
| 99150-10 | -10 | 7/8 x 14 | D |
| 99150-12 | -12 | 1 1/16 x 12 | D |
| 99150-16 | -16 | 1 5/16 x 12 | D |

960 Double Swivel JIC fittings
(made to order only)

The 960 fitting series range is available in select double swivel options, fittings can be aligned upon installation - no need to align the fitting prior to crimping.

Please note: An extended range of 960 Double Swivel fittings are available for 'special order'

Please contact Goodridge directly for more information.

Fitting type:*Crimp***Fluid applications:***Fuel, Oil, Water, Methanol and Pneumatics***Compatible hose:***G-Line Ultra 960 and 860***Material:***D = Aluminium (Black)***Notes:***Collars must be purchased separately*

960 Double Swivel JIC fittings (made to order only)

Fitting type:

Crimp

Fluid applications:

Fuel, Oil, Water, Methanol and Pneumatics

Compatible hose:

G-Line Ultra 960 and 860

Material:

D = Aluminium (Black)

Notes:

Collars must be purchased separately.

99180



Double swivel swept tube 180° female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 99180-08 | -08 | 3/4 x 16 | D |
| 99180-10 | -10 | 7/8 x 14 | D |
| 99180-12 | -12 | 1 1/16 x 12 | D |
| 99180-16 | -16 | 1 5/16 x 12 | D |



All 960 & 860 hose assemblies must be assembled by trained Goodridge personnel. Please contact Goodridge directly or find an approved Goodridge G-Tech centre at www.goodridge.com/distributors

960 Wiggins/ Hydraflow Cup DFL fittings

The 960 fitting series range is available in Wiggins/ Hydraflow cup options, compatible with Adel Wiggins and Hydraflow type fasteners.

Fitting type:

Crimp

Fluid applications:

Fuel, Oil, Water, Methanol and Pneumatics

Compatible hose:

G-Line Ultra 960 and 860

Material:

D = Aluminium (Black)

Notes:

Collars must be purchased separately.

960-01DFL



Straight DFL for Wiggins/Hydraflow concave seat

| Part No. | Cup size | Hose tail size | Mat |
|-------------|----------|----------------|-----|
| 960-0108DFL | -08 | -08 | D |
| 960-0110DFL | -10 | -10 | D |
| 960-0112DFL | -12 | -12 | D |
| 960-0116DFL | -16 | -16 | D |

960-45DFL



45° DFL for Wiggins/Hydraflow female concave seat

| Part No. | Cup size | Hose tail size | Mat |
|-------------|----------|----------------|-----|
| 960-4508DFL | -08 | -08 | D |
| 960-4510DFL | -10 | -10 | D |
| 960-4512DFL | -12 | -12 | D |
| 960-4516DFL | -16 | -16 | D |

960-90DFL



90° DFL for Wiggins/Hydraflow concave seat

| Part No. | Cup size | Hose tail size | Mat |
|-------------|----------|----------------|-----|
| 960-9008DFL | -08 | -08 | D |
| 960-9010DFL | -10 | -10 | D |
| 960-9012DFL | -12 | -12 | D |
| 960-9016DFL | -16 | -16 | D |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

960-120DFL

120° DFL for Wiggins/Hydraflow concave seat

| Part No. | Cup size | Hose tail size | Mat |
|--------------|----------|----------------|-----|
| 960-12008DFL | -08 | -08 | D |
| 960-12010DFL | -10 | -10 | D |
| 960-12012DFL | -12 | -12 | D |
| 960-12016DFL | -16 | -16 | D |

960-150DFL

150° DFL for Wiggins/Hydraflow concave seat

| Part No. | Cup size | Hose tail size | Mat |
|--------------|----------|----------------|-----|
| 960-15008DFL | -08 | -08 | D |
| 960-15010DFL | -10 | -10 | D |
| 960-15012DFL | -12 | -12 | D |
| 960-15016DFL | -16 | -16 | D |

960-180DFL

180° DFL for Wiggins/Hydraflow concave seat

| Part No. | Cup size | Hose tail size | Mat |
|--------------|----------|----------------|-----|
| 960-18008DFL | -08 | -08 | D |
| 960-18010DFL | -10 | -10 | D |
| 960-18012DFL | -12 | -12 | D |
| 960-18016DFL | -16 | -16 | D |

960 Wiggins/ Hydraflow DFL Cup fittings (made to order only)

An extended range of 960 Wiggins/Hydraflow cup fittings series range are also available on a 'special order' basis.

Please contact Goodridge directly for more information.



All 960 & 860 hose assemblies must be assembled by trained Goodridge personnel. Please contact Goodridge directly or find an approved Goodridge G-Tech centre at www.goodridge.com/distributors

Fitting type:*Crimp***Fluid applications:***Fuel, Oil, Water, Methanol and Pneumatics***Compatible hose:***G-Line Ultra 960 and 860***Material:***D = Aluminium (Black)***Notes:***Collars must be purchased separately*

960 Plug-In fittings
(made to order only)

Fitting type:

Crimp

Fluid applications:

Fuel, Oil, Water, Methanol and Pneumatics

Compatible hose:

G-Line Ultra 960 and 860

Material:

D = Aluminium (Black)

Notes:

Collars must be purchased separately.

961001



961046



961091



| Part No. | Mat | Fitting Angle | Tail size | | |
|----------|-----|---------------|--------------|-----|-------|
| | | | Plug OD (mm) | | |
| 961001 | D | Straight | -06 | -06 | 14.38 |
| 961046 | D | 45° | -08 | -08 | 15.88 |
| 961091 | D | 90° | -10 | -10 | 22.23 |
| | | | -12 | -12 | 23.81 |
| | | | -16 | -16 | 31.75 |

EXAMPLE:

| Part No. | Tail size | Plug OD (mm) |
|----------|-----------|--------------|
| 961001 | -06 | -08 |

PART NO: 961001-06-08

Please contact Goodridge or your nearest G-Tech centre for all fuel type O-Ring options.

Crimp collar to suit 960 fittings

Aluminium crimp collar to suit 960 series fittings.

Compatible fittings:

G-Line Ultra 960

Material:

D = Aluminium (Silver)

Notes:

Only to be used with 960 series fittings

RCC960



Crimp collar for 960 and 860 hoses

| Part No. | To suit hose | Mat |
|------------|--------------|-----|
| RCC960-06D | -06 | D |
| RCC960-08D | -08 | D |
| RCC960-10D | -10 | D |
| RCC960-12D | -12 | D |
| RCC960-16D | -16 | D |
| RCC960-20D | -20 | D |



All 960 & 860 hose assemblies must be assembled by trained Goodridge personnel. Please contact Goodridge directly or find an approved Goodridge G-Tech centre at www.goodridge.com/distributors





GOODRIDGE

www.goodridge.com



02

G-LINE SERIES
HOSE AND FITTINGS

GOODRIDGE

G-Line series

G-Line hose and fittings are used by leading motorsport teams requiring a combination of high flow rate, protection from the elements, tight bend radii and reduced weight.

The G-Line hose range is available in smoothbore (XF910 and XF811) and convoluted (G-Flex 711 and G-Line 710) hose options. All G-Line hoses either feature as standard or have an anti-static PTFE liner option.

In addition, bespoke lightweight aluminium fittings, available in crimp, draw swage and reusable tail options are available. Double swivel tail options are available to aid with alignment.

Current customers include teams competing in F1, INDYCAR, WEC, NASCAR, WRC, GT, BTCC, WTCR and club level motorsports.

Benefits:

- Super light weight (XF910 & G-Flex 711)
- Uninterrupted flow
- Burst pressure up to 5076 PSI / 350 BAR (AN-04)
- Temperature resistance from -45°C to 170°C
- Bend radius to 20mm (AN-06)

Features:

- High flow rate (XF910 & XF811)
- PTFE lined
- Aramid fibre / Stainless steel braided options
- Compatible with crimp & reusable fittings
- SAE J7137 compliant

Which hose do I need?

G-Line hose comparison chart:

| Hose range | Light weight | Burst Pressure | Bend radius | High flow rate | Temp resistance | Additional external protection | Fitting type |
|------------|--------------|----------------|-------------|----------------|-----------------|--------------------------------|------------------|
| 910 | x | x | | x | | | Crimp & Reusable |
| 811 | | x | | x | x | x | Crimp & Reusable |
| 711 | x | | | | | | Crimp |
| 710 | | | x | | | | Draw swage |
| 910FC | | | | | | | Crimp |

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible fittings:

*711 crimp fittings
4000 series crimp fittings
811 reusable fittings*

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel









Fluid applications:Fuel, Oil, Water, Methanol
& Pneumatics**Compatible fittings:**711 crimp fittings
4000 crimp fittings
811 reusable fittings**G-LINE XF 910**

The G-Line XF 910 is the lightest smoothbore hose in the Goodridge range.

The hose features a smooth bore, externally convoluted, carbon impregnated, anti-static PTFE liner, wrapped in a super lightweight Aramid fibre braid.

In addition to the 711 crimp and 4000 series crimp/draw swage fittings, the G-Line XF 910 hose can be assembled using 811 reusable fittings, without the need for specialist tooling.

*Data in this table is for the hose only*

| Part No. | Dash  Size | Max Bore Size  mm / inches | Outer Diameter  mm / inches | Working Press  Bar / Psi | Burst Pres  Bar / Psi | Weight  Kg/M / Lb/Ft | Min Bend Rad  mm / inches | Temp Range  °C / °F |
|----------|---|---|--|---|--|---|--|--|
| 910-04 | -04 | 6,70 (0,26) | 9,70 (0,38) | 88 (1276) | 350 (5076) | 0,070 (0,0471) | 20 (0,79) | -40/+180 (-40/+356) |
| 910-06 | -06 | 9,50 (0,37) | 13,00 (0,51) | 80 (1160) | 320 (4641) | 0,105 (0,0706) | 28 (1,10) | -40/+180 (-40/+356) |
| 910-08 | -08 | 12,70 (0,50) | 16,80 (0,66) | 70 (1015) | 280 (4061) | 0,140 (0,0942) | 40 (1,57) | -40/+180 (-40/+356) |
| 910-10 | -10 | 15,90 (0,63) | 20,90 (0,81) | 65 (924) | 260 (3770) | 0,205 (0,1379) | 45 (1,77) | -40/+180 (-40/+356) |
| 910-12 | -12 | 19,00 (0,75) | 24,70 (0,97) | 60 (870) | 240 (3480) | 0,214 (0,1440) | 55 (2,16) | -40/+180 (-40/+356) |
| 910-16 | -16 | 25,40 (1,00) | 32,70 (1,29) | 50 (725) | 200 (2900) | 0,489 (0,3290) | 75 (2,95) | -40/+180 (-40/+356) |
| 910-20 | -20 | 31,70 (1,24) | 38,60 (1,45) | 45 (652) | 180 (2610) | 0,587 (0,3950) | 100 (3,94) | -40/+180 (-40/+356) |









Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 180°C.**Fluid applications:**Fuel, Oil, Water, Methanol
& Pneumatics**Compatible fittings:**711 crimp fittings
4000 crimp fittings
811 reusable fittings**G-LINE XF 811**

The G-Line XF 811 is the stainless-steel braided equivalent to the G-Line XF 910.

The hose features a smooth bore, externally convoluted, carbon impregnated, anti-static PTFE liner, wrapped in a Stainless Steel braid.

In addition to the 711 crimp and 4000 series crimp/draw swage fittings, the G-Line XF 811 hose can be assembled using 811 reusable fittings, without the need for specialist tooling.

*Data in this table is for the hose only*

| Part No. | Dash  Size | Max Bore Size  mm / inches | Outer Diameter  mm / inches | Working Press  Bar / Psi | Burst Pres  Bar / Psi | Weight  Kg/M / Lb/Ft | Min Bend Rad  mm / inches | Temp Range  °C / °F |
|----------|---|---|--|---|--|---|--|--|
| 811-04 | -04 | 6,70 (0,26) | 9,60 (0,38) | 88 (1276) | 350 (5076) | 0,098 (0,0659) | 19 (0,75) | -70/+260 (-94/+500) |
| 811-06 | -06 | 9,50 (0,37) | 12,70 (0,50) | 80 (1160) | 320 (4641) | 0,156 (0,1049) | 27 (1,06) | -70/+260 (-94/+500) |
| 811-08 | -08 | 12,70 (0,50) | 16,40 (0,65) | 70 (1015) | 280 (4061) | 0,233 (0,1568) | 38 (1,5) | -70/+260 (-94/+500) |
| 811-10 | -10 | 15,90 (0,63) | 20,60 (0,81) | 65 (924) | 260 (3770) | 0,333 (0,2241) | 50 (1,97) | -70/+260 (-94/+500) |
| 811-12 | -12 | 19,00 (0,75) | 24,20 (0,87) | 60 (870) | 240 (3480) | 0,400 (0,2692) | 52 (2,05) | -70/+260 (-94/+500) |
| 811-16 | -16 | 25,40 (1,00) | 32,20 (1,27) | 50 (725) | 200 (2900) | 0,660 (0,4158) | 70 (2,76) | -70/+260 (-94/+500) |

Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 260°C.

Fluid applications:

Fuel (Methanol, Alcohol & E-85)

Compatible fittings:

711 crimp fittings

4000 series crimp fittings

811 reusable fittings

G-LINE XF 910FC

Goodridge 910 FC fuel cell hose is designed for internal fuel cell plumbing and lift pump applications. The hose is smooth bore and externally convoluted, constructed from carbon impregnated PTFE.

Available in black (Anti-static) or transparent for inspection purposes.

910 FC is compatible with 4000 series crimp fittings & 711 series crimp fittings (Specialist assembly equipment required) or 811 reusable fittings. (Assembled using a rubber jaw vice and alloy spanners).

Current customers include teams competing in F1, INDYCAR, WEC, NASCAR, WRC, GT, BTCC, WTCR and club level motorsports.



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Outer Diameter mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F | Notes |
|----------|--------------|------------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-----------------------------|-----------------------|-----------|
| 910-06FC | -06 | 9,53 (0,38) | 13,00 (0,51) | 5 (72) | 20 (290) | 0,06 (0,0403) | 60 (2,36) | -45/+50 (-49/+122) | Fuel Cell |

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible fittings:

711 crimp fittings

G-FLEX 711

G-Flex 711 is the lightest hose in the Goodridge range; used by motorsport teams globally who require the ultimate in weight saving.

The G-Flex range features a fully convoluted, carbon impregnated, anti-static PTFE liner; wrapped in an Aramid fibre braid. G-Flex is compatible with 711 crimp fittings and must be assembled using specialist equipment.

The G-Flex hose range is a popular choice for motorsport teams looking for the ultimate light weight solution, not requiring the smoothbore flow characteristics of Goodridge G-Line XF & Ultra hoses.

Current customers include teams competing in F1, INDYCAR, WEC, NASCAR, WRC, GT, BTCC, WTCR and club level motorsports.



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Outer Diameter mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|----------|--------------|------------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-----------------------------|-----------------------|
| 711-06 | -06 | 9,50 (0,37) | 12,45 (0,49) | 45 (652) | 180 (2610) | 0,071 (0,0477) | 25 (0,98) | -40/+180 (-40/+356) |
| 711-08 | -08 | 12,84 (12,84) | 15,75 (0,62) | 34 (493) | 136 (1972) | 0,112 (0,0753) | 30 (1,18) | -40/+180 (-40/+356) |
| 711-10 | -10 | 18,28 (0,72) | 20,83 (0,82) | 30 (435) | 120 (1740) | 0,158 (0,1063) | 35 (1,38) | -40/+180 (-40/+356) |
| 711-12 | -12 | 19,42 (0,76) | 22,75 (0,90) | 24 (348) | 96 (1392) | 0,198 (0,1332) | 60 (2,36) | -40/+180 (-40/+356) |
| 711-16 | -16 | 27,00 (1,06) | 31,00 (1,22) | 20 (290) | 80 (1160) | 0,298 (0,2005) | 89 (3,50) | -40/+180 (-40/+356) |

Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 180°C.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

Fluid applications:Fuel, Oil, Water, Methanol
& Pneumatics**Compatible fittings:**

4000 series draw swage fittings

G-LINE 710

G-Line 710 is a fully convoluted, Aramid fibre braided hose; the most flexible hose in the Goodridge range, compatible with both draw swage and crimp fittings.

Similar to the G Flex 711 hose, the G-Line 710 range is fully convoluted, utilising a carbon impregnated, anti-static PTFE liner.

G-Line 710 is compatible with 4000 series draw swage fittings (Specialist equipment required).

The G-Line 710 range is a popular choice for motorsport teams looking for the tightest bend radius, where high flexibility is required for tight plumbing applications.

Current customers include teams competing in F1, INDYCAR, WEC, NASCAR, WRC, GT, BTCC, WTCR and club level motorsports.

*Data in this table is for the hose only*

| Part No. | Dash Size | Max Bore Size mm / inches | Outer Diameter mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|----------|--------------|------------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-----------------------------|-----------------------|
| 710-04 | -04 | 7,1 (0,28) | 11,3 (0,44) | 70 (1015) | 330 (4786) | 0,075 (0,0504) | 20 (1,97) | -40/+180 (-40/+356) |
| 710-06 | -06 | 9,5 (0,37) | 14,3 (0,56) | 65 (924) | 256 (3712) | 0,089 (0,0598) | 25 (0,98) | -40/+180 (-40/+356) |
| 710-08 | -08 | 12,7 (0,50) | 19,2 (0,75) | 58 (841) | 235 (3408) | 0,154 (0,1036) | 25 (0,98) | -40/+180 (-40/+356) |
| 710-10 | -10 | 15,2 (0,60) | 21,5 (0,85) | 50 (725) | 200 (2900) | 0,164 (0,1103) | 32 (1,26) | -40/+180 (-40/+356) |
| 710-12 | -12 | 19,5 (0,77) | 25,6 (0,22) | 35 (507) | 170 (2465) | 0,193 (0,1298) | 40 (1,57) | -40/+180 (-40/+356) |
| 710-16 | -16 | 25,4 (1,00) | 32,8 (1,29) | 33 (478) | 133 (1929) | 0,237 (0,1595) | 50 (1,97) | -40/+180 (-40/+356) |
| 710-20 | -20 | 31,8 (1,25) | 36,5 (1,44) | 25 (362) | 75 (1087) | 0,461 (0,3102) | 70 (2,76) | -40/+180 (-40/+356) |

Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 180°C.**Reusable fitting assembly instructions can be found in section 16**

Crimped fitting assemblies must be assembled by trained Goodridge personnel.

Please contact Goodridge directly or find an approved Goodridge G-Tech centre at www.goodridge.com/distributors

711 JIC fittings

Goodridge 711 series crimp fittings are designed for the G-Line hose range; for both smoothbore and convoluted hose types. Available in both forged and swept body, from straight to 180 degrees bend angle options.

711-01



Straight female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 711-0106 | -06 | 9/16 x 18 | D |
| 711-0108 | -08 | 3/4 x 16 | D |
| 711-0110 | -10 | 7/8 x 14 | D |
| 711-0112 | -12 | 1 1/16 x 12 | D |
| 711-0116 | -16 | 1 5/16 x 12 | D |

711-30



30° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 711-3006 | -06 | 9/16 x 18 | D |
| 711-3008 | -08 | 3/4 x 16 | D |
| 711-3010 | -10 | 7/8 x 14 | D |
| 711-3012 | -12 | 1 1/16 x 12 | D |
| 711-3016 | -16 | 1 5/16 x 12 | D |

711-45



45° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 711-4506 | -06 | 9/16 x 18 | D |
| 711-4508 | -08 | 3/4 x 16 | D |
| 711-4510 | -10 | 7/8 x 14 | D |
| 711-4512 | -12 | 1 1/16 x 12 | D |

711-46



45° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 711-4606 | -06 | 9/16 x 18 | D |
| 711-4608 | -08 | 3/4 x 16 | D |
| 711-4610 | -10 | 7/8 x 14 | D |
| 711-4612 | -12 | 1 1/16 x 12 | D |
| 711-4616 | -16 | 1 5/16 x 12 | D |

711-60



60° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 711-6006 | -06 | 9/16 x 18 | D |
| 711-6008 | -08 | 3/4 x 16 | D |
| 711-6010 | -10 | 7/8 x 14 | D |
| 711-6012 | -12 | 1 1/16 x 12 | D |
| 711-6016 | -16 | 1 5/16 x 12 | D |

Fluid applications:

Fuel, Oil, Water, Methanol
& Pneumatics

Compatible hoses:

G-Line XF 910 & 811
G-Flex 711

Notes:

Collars must be purchased
separately.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

711-90

90° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 711-9006 | -06 | 9/16 x 18 | D |
| 711-9008 | -08 | 3/4 x 16 | D |
| 711-9010 | -10 | 7/8 x 14 | D |
| 711-9012 | -12 | 1 1/16 x 12 | D |

711-91

90° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 711-9106 | -06 | 9/16 x 18 | D |
| 711-9108 | -08 | 3/4 x 16 | D |
| 711-9110 | -10 | 7/8 x 14 | D |
| 711-9112 | -12 | 1 1/16 x 12 | D |
| 711-9116 | -16 | 1 5/16 x 12 | D |

711-120

120° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|-----------|--------------|-------------|-----|
| 711-12006 | -06 | 9/16 x 18 | D |
| 711-12008 | -08 | 3/4 x 16 | D |
| 711-12010 | -10 | 7/8 x 14 | D |
| 711-12012 | -12 | 1 1/16 x 12 | D |
| 711-12016 | -16 | 1 5/16 x 12 | D |

711-150

150° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|-----------|--------------|-------------|-----|
| 711-15006 | -06 | 9/16 x 18 | D |
| 711-15008 | -08 | 3/4 x 16 | D |
| 711-15010 | -10 | 7/8 x 14 | D |
| 711-15012 | -12 | 1 1/16 x 12 | D |
| 711-15016 | -16 | 1 5/16 x 12 | D |

711-180

180° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|-----------|--------------|-------------|-----|
| 711-18006 | -06 | 9/16 x 18 | D |
| 711-18008 | -08 | 3/4 x 16 | D |
| 711-18010 | -10 | 7/8 x 14 | D |
| 711-18012 | -12 | 1 1/16 x 12 | D |
| 711-18016 | -16 | 1 5/16 x 12 | D |

711 JIC fittings

Goodridge 711 series crimp fittings are designed for the G-Line hose range; for both smoothbore and convoluted hose types. Available in both forged and swept body, from straight to 180 degrees bend angle options.

Please see next page for double swivel options

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

*G-Line XF 910 & 811
G-Flex 711*

Notes:

Collars must be purchased separately.

711 Double Swivel JIC fittings

The 711 series range is available with a double swivel; allowing fittings to be aligned upon installation - no need to align the fitting prior to crimping. Perfect for last minute hose orientation or when adjustments are needed at the track.

7746



Double swivel tale - 45°swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 7746-06 | -06 | 9/16 x 18 | D |
| 7746-08 | -08 | 3/4 x 16 | D |
| 7746-10 | -10 | 7/8 x 14 | D |
| 7746-12 | -12 | 1 1/16 x 12 | D |
| 7746-16 | -16 | 1 5/16 x 12 | D |

7791



Double swivel tale - 90°swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 7791-06 | -06 | 9/16 x 18 | D |
| 7791-08 | -08 | 3/4 x 16 | D |
| 7791-10 | -10 | 7/8 x 14 | D |
| 7791-12 | -12 | 1 1/16 x 12 | D |
| 7791-16 | -16 | 1 5/16 x 12 | D |

77120



Double swivel tale - 120°swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 77120-06 | -06 | 9/16 x 18 | D |
| 77120-08 | -08 | 3/4 x 16 | D |
| 77120-10 | -10 | 7/8 x 14 | D |
| 77120-12 | -12 | 1 1/16 x 12 | D |
| 77120-16 | -16 | 1 5/16 x 12 | D |

77150



150° double swivel

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 77150-06 | -06 | 9/16 x 18 | D |
| 77150-08 | -08 | 3/4 x 16 | D |
| 77150-10 | -10 | 7/8 x 14 | D |
| 77150-12 | -12 | 1 1/16 x 12 | D |
| 77150-16 | -16 | 1 5/16 x 12 | D |

77180



180° double swivel

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 77180-06 | -06 | 9/16 x 18 | D |
| 77180-08 | -08 | 3/4 x 16 | D |
| 77180-10 | -10 | 7/8 x 14 | D |
| 77180-12 | -12 | 1 1/16 x 12 | D |
| 77180-16 | -16 | 1 5/16 x 12 | D |

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

G-Line XF 910 & 811
G-Flex 711

Notes:

Collars must be purchased separately.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

711

| Part No. | Mat | Fitting Angle | Tail size | JIC/UNF | |
|----------|-----|---------------|-----------|---------|-------------|
| | | | | | |
| 711001 | D | Straight | -06 | -06 | 9/16 x 18 |
| 711031 | D | 30° | -08 | -08 | 3/4 x 16 |
| 711046 | D | 45° | -10 | -10 | 7/8 x 14 |
| 711061 | D | 60° | -12 | -12 | 1 1/16 x 12 |
| 711091 | D | 90° | -16 | -16 | 1 5/16 x 12 |
| 711120 | D | 120° | | | |
| 711150 | D | 150° | | | |
| 711180 | D | 180° | | | |

EXAMPLE:

| Part No. | Tail size | JIC/UNF |
|----------|-----------|---------|
| 711001 | -06 | -08 |

PART NO: 711001-06-08**711 Male Swivel**
(Made to order)**Fluid applications:**

Fuel, Oil, Water, Methanol and Pneumatics

Compatible hose:G-Line XF910 & 811
G-Flex 711**Notes:**

Collars must be purchased separately

711-01DFL

Straight to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tail size | Mat |
|-------------|----------|----------------|-----|
| 711-0108DFL | -08 | -08 | D |
| 711-0110DFL | -10 | -10 | D |
| 711-0112DFL | -12 | -12 | D |
| 711-0116DFL | -16 | -16 | D |

711-30DFL

30° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tail size | Mat |
|-------------|----------|----------------|-----|
| 711-3008DFL | -08 | -08 | D |
| 711-3010DFL | -10 | -10 | D |
| 711-3012DFL | -12 | -12 | D |
| 711-3016DFL | -16 | -16 | D |

711-45DFL

45° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tail size | Mat |
|-------------|----------|----------------|-----|
| 711-4508DFL | -08 | -08 | D |
| 711-4510DFL | -10 | -10 | D |
| 711-4512DFL | -12 | -12 | D |
| 711-4516DFL | -16 | -16 | D |

711 Wiggins/ Hydraflow cup fittings
(Made to order)Ideal for rapid connect/disconnect of flexible hose to a rigid tube, utilising Wiggins/Hydraflow fasteners. Wiggins/Hydraflow cup fittings are available on a 'made to order' basis. **Please contact Goodridge or your nearest G-Tech centre for further information.****Fluid applications:**

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:G-Line XF 910 & 811
G-Flex 711**Notes:**

Collars must be purchased separately.

711 Wiggins/ Hydraflow cup fittings (Made to order)

Ideal for rapid connect/disconnect of flexible hose to a rigid tube, utilising Wiggins/Hydraflow fasteners. Wiggins/Hydraflow cup fittings are available on a 'made to order' basis. **Please contact Goodridge or your nearest G-Tech centre for further information.**

711-60DFL



60° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tail size | Mat |
|-------------|----------|----------------|-----|
| 711-6008DFL | -08 | -08 | D |
| 711-6010DFL | -10 | -10 | D |
| 711-6012DFL | -12 | -12 | D |
| 711-6016DFL | -16 | -16 | D |

711-90DFL



90° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tail size | Mat |
|-------------|----------|----------------|-----|
| 711-9008DFL | -08 | -08 | D |
| 711-9010DFL | -10 | -10 | D |
| 711-9012DFL | -12 | -12 | D |
| 711-9016DFL | -16 | -16 | D |

711-120DFL



120° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tail size | Mat |
|--------------|----------|----------------|-----|
| 711-12008DFL | -08 | -08 | D |
| 711-12010DFL | -10 | -10 | D |
| 711-12012DFL | -12 | -12 | D |
| 711-12016DFL | -16 | -16 | D |

For variations in tail/cup size please contact the Goodridge sales team

711-150DFL



150° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tail size | Mat |
|--------------|----------|----------------|-----|
| 711-15008DFL | -08 | -08 | D |
| 711-15010DFL | -10 | -10 | D |
| 711-15012DFL | -12 | -12 | D |
| 711-15016DFL | -16 | -16 | D |

For variations in tail/cup size please contact the Goodridge sales team

711-180DFL



180° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tail size | Mat |
|--------------|----------|----------------|-----|
| 711-18008DFL | -08 | -08 | D |
| 711-18010DFL | -10 | -10 | D |
| 711-18012DFL | -12 | -12 | D |
| 711-18016DFL | -16 | -16 | D |

For variations in tail/cup size please contact the Goodridge sales team

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

*G-Line XF 910 & 811
G-Flex 711*

Notes:

Collars must be purchased separately.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

77



| Part No. | Mat | Fitting Angle | Tail size | Cup size | |
|----------|-----|---------------|-----------|----------|-----|
| 7731 | D | 30° | -06 | -06 | DFL |
| 7746 | D | 45° | -08 | -08 | DFL |
| 7761 | D | 60° | -10 | -10 | DFL |
| 7791 | D | 90° | -12 | -12 | DFL |
| 77120 | D | 120° | -16 | -16 | DFL |
| 77150 | D | 150° | | | |
| 77180 | D | 180° | | | |

EXAMPLE:

| Part No. | Tail size | Cup size |
|----------|-----------|----------|
| 7731 | -06 | -08 |

PART NO: 7731-06-08DFL

711Wiggins / Hydraflow Double swivel tail
(Made to order)

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

G-Line XF 910 & 811
G-Flex 711

Notes:

Collars must be purchased separately.

731001



| Part No. | Mat | Fitting Angle | Tail size | Plug OD (mm) | |
|----------|-----|---------------|-----------|--------------|-------|
| 731001 | D | Straight | -06 | -06 | 14.38 |
| 731046 | D | 45° | -08 | -08 | 15.88 |
| 731091 | D | 90° | -10 | -10 | 22.23 |
| | | | -12 | -12 | 23.81 |
| | | | -16 | -16 | 31.75 |

EXAMPLE:

| Part No. | Tail size | Plug OD (mm) |
|----------|-----------|--------------|
| 731001 | -06 | -08 |

PART NO: 731001-06-08

711 Plug-In fittings
(made to order)

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

G-Line XF 910 & 811
G-Flex 711

Notes:

Collars must be purchased separately.

731046



731091



RCC711



Crimp collar for 711 fittings

| Part No. | To suit hose | Mat |
|------------|--------------|-----|
| RCC711-06D | -06 | D |
| RCC711-08D | -08 | D |
| RCC711-10D | -10 | D |
| RCC711-12D | -12 | D |
| RCC711-16D | -16 | D |

Crimp collar to suit 711 fittings

Aluminium crimp collar to suit 711 series fittings.

Compatible fittings:

G-Line Ultra 960

Material:

D = Aluminium (Silver)

Notes:

Only to be used with 960 series fittings



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Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

4001

Straight female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|------------|--------------|-------------|-----|
| 4001-04D | -04 | 7/16 x 20 | D |
| 4001-04DBK | -04 | 7/16 x 20 | D |
| 4001-06D | -06 | 9/16 x 18 | D |
| 4001-08D | -08 | 3/4 x 16 | D |
| 4001-10D | -10 | 7/8 x 14 | D |
| 4001-12D | -12 | 1 1/16 x 12 | D |
| 4001-16D | -16 | 1 5/16 x 12 | D |
| 4001-20D | -20 | 1 5/8 x 12 | D |

4045

45° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|------------|--------------|-------------|-----|
| 4045-04D | -04 | 7/16 x 20 | D |
| 4045-04DBK | -04 | 7/16 x 20 | D |
| 4045-06D | -06 | 9/16 x 18 | D |
| 4045-08D | -08 | 3/4 x 16 | D |
| 4045-10D | -10 | 7/8 x 14 | D |
| 4045-12D | -12 | 1 1/16 x 12 | D |

4046

45° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|------------|--------------|-------------|-----|
| 4046-04D | -04 | 7/16 x 20 | D |
| 4046-04DBK | -04 | 7/16 x 20 | D |
| 4046-06D | -06 | 9/16 x 18 | D |
| 4046-08D | -08 | 3/4 x 16 | D |
| 4046-10D | -10 | 7/8 x 14 | D |
| 4046-12D | -12 | 1 1/16 x 12 | D |
| 4046-16D | -16 | 1 5/16 x 12 | D |

4090

90° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|------------|--------------|-------------|-----|
| 4090-04D | -04 | 7/16 x 20 | D |
| 4090-04DBK | -04 | 7/16 x 20 | D |
| 4090-06D | -06 | 9/16 x 18 | D |
| 4090-08D | -08 | 3/4 x 16 | D |
| 4090-10D | -10 | 7/8 x 14 | D |
| 4090-12D | -12 | 1 1/16 x 12 | D |

4091

90° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|------------|--------------|-------------|-----|
| 4091-04D | -04 | 7/16 x 20 | D |
| 4091-04DBK | -04 | 7/16 x 20 | D |
| 4091-06D | -06 | 9/16 x 18 | D |
| 4091-08D | -08 | 3/4 x 16 | D |
| 4091-10D | -10 | 7/8 x 14 | D |
| 4091-12D | -12 | 1 1/16 x 12 | D |
| 4091-16D | -16 | 1 5/16 x 12 | D |

**4000 series
JIC fittings**

Goodridge 4000 series crimp/swage fittings are fully machined from single piece billet aluminium, combining reliability with light weight; available in both forged and swept body, from straight to 180 degrees bend angle options.

Can be draw swaged or crimped.

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

G-Line XF 910 & 811 (Crimp)
G-Line 710 (Draw swage)

Material:

D = Aluminium (Blue)
DBK = Aluminium (Black)

Notes:

Collars must be purchased separately.

4000 series JIC fittings

Goodridge 4000 series crimp/swage fittings are fully machined from single piece billet aluminium, combining reliability with light weight; available in both forged and swept body, from straight to 180 degrees bend angle options.

Can be draw swaged or crimped.

4120



120° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|------------|--------------|-------------|-----|
| 4120-04D | -04 | 7/16 x 20 | D |
| 4120-04DBK | -04 | 7/16 x 20 | D |
| 4120-06D | -06 | 9/16 x 18 | D |
| 4120-08D | -08 | 3/4 x 16 | D |
| 4120-10D | -10 | 7/8 x 14 | D |
| 4120-12D | -12 | 1 1/16 x 12 | D |
| 4120-16D | -16 | 1 5/16 x 12 | D |

4150



150° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 4150-04D | -04 | 7/16 x 20 | D |
| 4150-06D | -06 | 9/16 x 18 | D |
| 4150-08D | -08 | 3/4 x 16 | D |
| 4150-10D | -10 | 7/8 x 14 | D |
| 4150-12D | -12 | 1 1/16 x 12 | D |
| 4150-16D | -16 | 1 5/16 x 12 | D |

4180



180° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 4180-04D | -04 | 7/16 x 20 | D |
| 4180-06D | -06 | 9/16 x 18 | D |
| 4180-08D | -08 | 3/4 x 16 | D |
| 4180-10D | -10 | 7/8 x 14 | D |
| 4180-12D | -12 | 1 1/16 x 12 | D |
| 4180-16D | -16 | 1 5/16 x 12 | D |

4441



Straight male convex seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-----------|-----|
| 4441-04D | -04 | 7/16 x 20 | D |
| 4441-06D | -06 | 9/16 x 18 | D |
| 4441-08D | -08 | 3/4 x 16 | D |
| 4441-10D | -10 | 7/8 x 14 | D |

40776



Banjo straight

| Part No. | To suit hose | Hole size | Mat |
|---------------|--------------|-----------|-----|
| 40776-04-M10D | -04 | M10 x 1,5 | D |
| 40776-06-M12D | -06 | M12 x 1,5 | D |
| 40776-06-M14D | -06 | M14 x 1,5 | D |
| 40776-06-M16D | -06 | M16 x 1,5 | D |

Fluid applications:

Fuel, Oil, Water, Methanol
& Pneumatics

Compatible hoses:

G-Line XF 910 & 811 (Crimp)
G-Line 710 (Draw swage)

Material:

D = Aluminium (Blue)
DBK = Aluminium (Black)

Notes:

Collars must be purchased
separately.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

4445

45° swivel forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 4445-04D | -04 | 7/16 x 20 | D |
| 4445-06D | -06 | 9/16 x 18 | D |
| 4445-08D | -08 | 3/4 x 16 | D |
| 4445-10D | -10 | 7/8 x 14 | D |
| 4445-12D | -12 | 1 1/16 x 12 | D |

4446

45° swivel swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 4446-04D | -04 | 7/16 x 20 | D |
| 4446-06D | -06 | 9/16 x 18 | D |
| 4446-08D | -08 | 3/4 x 16 | D |
| 4446-10D | -10 | 7/8 x 14 | D |
| 4446-12D | -12 | 1 1/16 x 12 | D |
| 4446-16D | -16 | 1 5/16 x 12 | D |

4490

90° swivel forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 4490-04D | -04 | 7/16 x 20 | D |
| 4490-06D | -06 | 9/16 x 18 | D |
| 4490-08D | -08 | 3/4 x 16 | D |
| 4490-10D | -10 | 7/8 x 14 | D |
| 4490-12D | -12 | 1 1/16 x 12 | D |

4491

90° swivel swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 4491-04D | -04 | 7/16 x 20 | D |
| 4491-06D | -06 | 9/16 x 18 | D |
| 4491-08D | -08 | 3/4 x 16 | D |
| 4491-10D | -10 | 7/8 x 14 | D |
| 4491-12D | -12 | 1 1/16 x 12 | D |
| 4491-16D | -16 | 1 5/16 x 12 | D |

44120

120° swivel swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|-----------|--------------|-------------|-----|
| 44120-04D | -04 | 7/16 x 20 | D |
| 44120-06D | -06 | 9/16 x 18 | D |
| 44120-08D | -08 | 3/4 x 16 | D |
| 44120-10D | -10 | 7/8 x 14 | D |
| 44120-12D | -12 | 1 1/16 x 12 | D |
| 44120-16D | -16 | 1 5/16 x 12 | D |

4400 series Double Swivel JIC fittings

The 4400 series range features a double swivel, allowing fittings to be aligned upon installation - no need to align the fitting prior to crimping or draw swaging. Perfect for last minute hose orientation or when adjustments are needed at the track.

Can be draw swaged or crimped.

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

*G-Line XF 910 & 811 (Crimp)
G-Line 710 (Draw swage)*

Material:

*D = Aluminium (Blue)
DBK = Aluminium (Black)*

Notes:

Collars must be purchased separately.

4400 series Double Swivel JIC fittings

The 4400 series range features a double swivel, allowing fittings to be aligned upon installation - no need to align the fitting prior to crimping or draw swaging. Perfect for last minute hose orientation or when adjustments are needed at the track.

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

*G-Line XF 910 & 811 (Crimp)
G-Line 710 (Draw swage)*

Notes:

Collars must be purchased separately.

4000 series Wiggins/Hydraflow cup fittings (Made to order)

Ideal for rapid connect/disconnect of flexible hose to a rigid tube, utilising Adel Wiggins/Hydraflow fasteners. Wiggins cup fittings are available on a 'made to order' basis. **Can be draw swaged or crimped.** Please contact Goodridge or your nearest G-Tech centre for further information.

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

*G-Line XF 910 & 811 (Crimp)
G-Line 710 (Draw swage)*

Notes:

Collars must be purchased separately.

44150



150° swivel swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|-----------|--------------|-------------|-----|
| 44150-04D | -04 | 7/16 x 20 | D |
| 44150-06D | -06 | 9/16 x 18 | D |
| 44150-08D | -08 | 3/4 x 16 | D |
| 44150-10D | -10 | 7/8 x 14 | D |
| 44150-12D | -12 | 1 1/16 x 12 | D |

44180



180° swivel swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat |
|-----------|--------------|-------------|-----|
| 44180-04D | -04 | 7/16 x 20 | D |
| 44180-06D | -06 | 9/16 x 18 | D |
| 44180-08D | -08 | 3/4 x 16 | D |
| 44180-10D | -10 | 7/8 x 14 | D |
| 44180-12D | -12 | 1 1/16 x 12 | D |

4001DFL



Straight to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tale size | Mat |
|---------------|----------|----------------|-----|
| 4001-08-08DFL | -08 | -08 | D |
| 4001-10-10DFL | -10 | -10 | D |
| 4001-12-12DFL | -12 | -12 | D |
| 4001-16-16DFL | -16 | -16 | D |

4046DFL



45° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tale size | Mat |
|---------------|----------|----------------|-----|
| 4046-08-08DFL | -08 | -08 | D |
| 4046-10-10DFL | -10 | -10 | D |
| 4046-12-12DFL | -12 | -12 | D |
| 4046-16-16DFL | -16 | -16 | D |

4091DFL



90° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tale size | Mat |
|---------------|----------|----------------|-----|
| 4091-08-08DFL | -08 | -08 | D |
| 4091-10-10DFL | -10 | -10 | D |
| 4091-12-12DFL | -12 | -12 | D |
| 4091-16-16DFL | -16 | -16 | D |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

4120DFL

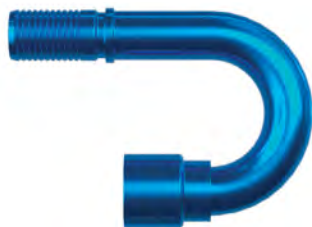
120° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tale size | Mat |
|---------------|----------|----------------|-----|
| 4120-08-08DFL | -08 | -08 | D |
| 4120-10-10DFL | -10 | -10 | D |
| 4120-12-12DFL | -12 | -12 | D |
| 4120-16-16DFL | -16 | -16 | D |

4150DFL

150° to DFL Wiggins/Hydraflow cup

| Part No. | Cup size | Hose/tale size | Mat |
|---------------|----------|----------------|-----|
| 4150-08-08DFL | -08 | -08 | D |
| 4150-10-10DFL | -10 | -10 | D |
| 4150-12-12DFL | -12 | -12 | D |
| 4150-16-16DFL | -16 | -16 | D |

4180DFL

180° to DFL Wiggins/Hydraflow cup

| PART NO. | Cup size | Hose/tale size | Mat |
|---------------|----------|----------------|-----|
| 4180-08-08DFL | -08 | -08 | D |
| 4180-10-10DFL | -10 | -10 | D |
| 4180-12-12DFL | -12 | -12 | D |
| 4180-16-16DFL | -16 | -16 | D |

RC110Draw swage collar to suit 4000 series fittings
(For use with 710 hose)

| PART NO. | Dash | Mat |
|-----------|------|-----|
| RC110-04D | -04 | D |
| RC110-06D | -06 | D |
| RC110-08D | -08 | D |
| RC110-10D | -10 | D |
| RC110-12D | -12 | D |
| RC110-16D | -16 | D |
| RC110-20D | -20 | D |

RCC910Crimp collar to suit 4000 series fittings
(For use with 910/811 hose)

| PART NO. | Dash | Mat |
|------------|------|-----|
| RCC910-04D | -04 | D |
| RCC910-06D | -06 | D |
| RCC910-08D | -08 | D |
| RCC910-10D | -10 | D |
| RCC910-12D | -12 | D |
| RCC910-16D | -16 | D |
| RCC910-20D | -20 | D |

**4000 series Wiggins/
Hydraflow cup fittings**
(Made to order)

Ideal for rapid connect/disconnect of flexible hose to a rigid tube, utilising Adel Wiggins/Hydraflow fasteners. Wiggins cup fittings are available on a 'made to order' basis. **Can be draw swaged or crimped.** Please contact Goodridge or your nearest G-Tech centre for further information.

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

*G-Line XF 910 & 811 (Crimp)
G-Line 710 (Draw swage)*

Notes:

Collars must be purchased separately

Crimp/Swage collars**RC110 – Draw swage collar:**

Compatible with 4000 series fittings and 710 hose.

RCC910 – Crimp collar:

Compatible with 4000 series fittings and G-Line XF-910 and XF-811 hose.

Please see hose guide on page 37

Material:

*RCC110 D = Aluminium (Gold)
RCC910 D = Aluminium (Silver)*

Notes:

Collars must be purchased separately.

811 JIC fittings

Goodridge 811 series patented reusable fittings are designed for the G-Line XF-910 and XF-811 hoses. The 811 reusable fittings range can be assembled using basic hand tools.

Available in both forged and swept body, from straight to 180 degrees bend angle options.

811-01



Straight female

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 811-0104 | -04 | 7/16 x 20 | D |
| 811-0106 | -06 | 9/16 x 18 | D |
| 811-0108 | -08 | 3/4 x 16 | D |
| 811-0110 | -10 | 7/8 x 14 | D |
| 811-0112 | -12 | 1 1/16 x 12 | D |
| 811-0116 | -16 | 1 5/16 x 12 | D |

812-45



45° forged female

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-----------|-----|
| 812-4506 | -06 | 9/16 x 18 | D |
| 812-4508 | -08 | 3/4 x 16 | D |
| 812-4510 | -10 | 7/8 x 14 | D |

811-45



45° swept tube female

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 811-4504 | -04 | 7/16 x 20 | D |
| 811-4506 | -06 | 9/16 x 18 | D |
| 811-4508 | -08 | 3/4 x 16 | D |
| 811-4510 | -10 | 7/8 x 14 | D |
| 811-4512 | -12 | 1 1/16 x 12 | D |
| 811-4516 | -16 | 1 5/16 x 12 | D |

812-90



90° forged female

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 812-9006 | -06 | 9/16 x 18 | D |
| 812-9008 | -08 | 3/4 x 16 | D |
| 812-9010 | -10 | 7/8 x 14 | D |
| 812-9012 | -12 | 1 1/16 x 12 | D |

811-90



90° swept tube female

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|-------------|-----|
| 811-9004 | -04 | 7/16 x 20 | D |
| 811-9006 | -06 | 9/16 x 18 | D |
| 811-9008 | -08 | 3/4 x 16 | D |
| 811-9010 | -10 | 7/8 x 14 | D |
| 811-9012 | -12 | 1 1/16 x 12 | D |
| 811-9016 | -16 | 1 5/16 x 12 | D |

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

G-Line XF 910 & 811

Notes:

Reusable

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

811-120



120° swept tube female

| Part No. | To suit hose | JIC/UNF | Mat |
|-----------|--------------|-------------|-----|
| 811-12004 | -04 | 7/16 x 20 | D |
| 811-12006 | -06 | 9/16 x 18 | D |
| 811-12008 | -08 | 3/4 x 16 | D |
| 811-12010 | -10 | 7/8 x 14 | D |
| 811-12012 | -12 | 1 1/16 x 12 | D |
| 811-12016 | -16 | 1 5/16 x 12 | D |

811-150



150° swept tube female

| Part No. | To suit hose | JIC/UNF | Mat |
|-----------|--------------|-------------|-----|
| 811-15004 | -04 | 7/16 x 20 | D |
| 811-15006 | -06 | 9/16 x 18 | D |
| 811-15008 | -08 | 3/4 x 16 | D |
| 811-15010 | -10 | 7/8 x 14 | D |
| 811-15012 | -12 | 1 1/16 x 12 | D |
| 811-15016 | -16 | 1 5/16 x 12 | D |

811-180



180° swept tube female

| Part No. | To suit hose | JIC/UNF | Mat |
|-----------|--------------|-------------|-----|
| 811-18004 | -04 | 7/16 x 20 | D |
| 811-18006 | -06 | 9/16 x 18 | D |
| 811-18008 | -08 | 3/4 x 16 | D |
| 811-18010 | -10 | 7/8 x 14 | D |
| 811-18012 | -12 | 1 1/16 x 12 | D |
| 811-18016 | -16 | 1 5/16 x 12 | D |

811 JIC fittings

Goodridge 811 series patented reusable fittings are designed for the G-Line XF-910 and XF-811 hoses. The 811 reusable fittings range can be assembled using basic hand tools.

Available in both forged and swept body, from straight to 180 degrees bend angle options.

Fluid applications:

Fuel, Oil, Water, Methanol & Pneumatics

Compatible hoses:

G-Line XF 910 & 811

Notes:

Reusable

G-Line hose and fitting compatibility chart

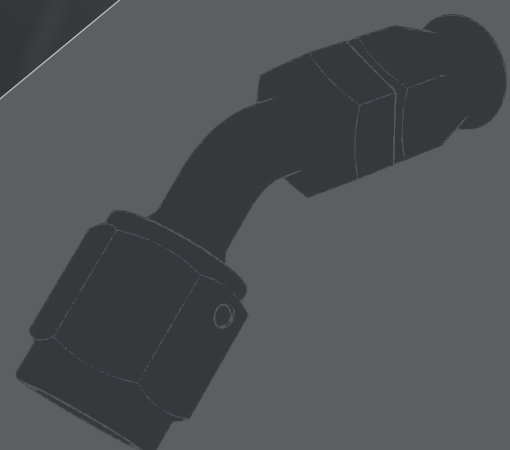
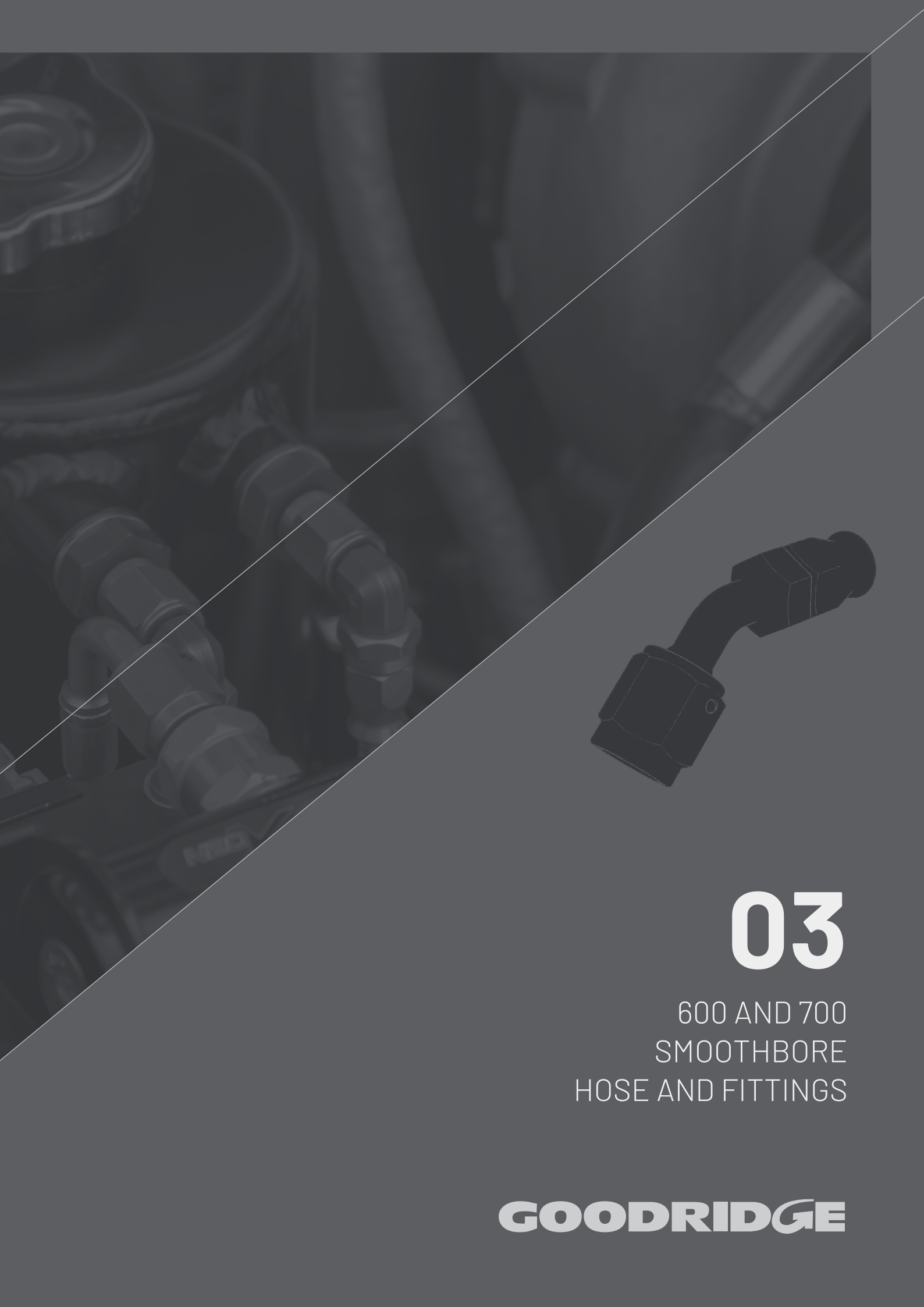
| FITTING TYPE | HOSE TYPE | | | |
|--------------------------------|-----------|-----|-----|-----|
| | 910 | 811 | 710 | 711 |
| 711 Machined Crimp Fittings | | | N/A | |
| 811 Reusable Fittings | | | N/A | N/A |
| 4000 Swage/Crimp Fittings | | | * | N/A |

*Collar RC110 required, draw swage only



GOODRIDGE

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03

600 AND 700
SMOOTHBORE
HOSE AND FITTINGS

GOODRIDGE

600 and 700K smoothbore series

The 600 series hose range is a PTFE lined hose, wrapped in a stainless steel braid; designed for brake, clutch, fuel, oil, water, dampers, power steering, gear shift and active differential applications. Available in AN-02 and AN-03.

AN-04, AN-06 & AN-08 bore sizes are available in medium pressure and high pressure variants.

The 700 series hose range is a motorsport use only PTFE lined light weight equivalent to the 600 series, wrapped in an Aramid fibre braid; designed for use with brake, clutch, pressure gauge, fuel injection, fire extinguisher, nitrous & hydraulics.

Available in AN-03 and AN-04.

Current 600/700 series customers include teams competing in F1, INDYCAR, WEC, NASCAR, WRC, GT, BTCC, WTCR and club level motorsports.

Benefits:

- Light weight (700 series)
- Uninterrupted flow
- Burst pressure up to 19580 PSI / 1350 BAR (600-02)
- Temperature resistance from -70°C / -94°F to 260°C / 500°F (600 series)
- Bend radius to 13mm (600-02)

Features:

- Smooth bore
- PTFE lined
- Stainless steel braided (600 series) /Aramid fibre braided (700 series)
- Compatible with crimp and reusable fittings (700K series and 600HP are crimp only)

Which hose do I need?

600 and 700 hose comparison chart:

| Hose range | Brakes | Clutch | Fuel | Oil | Water | Dampers | Power Steering | Gear Shift | Active Differential |
|-----------------------|--------|--------|------|-----|-------|---------|----------------|------------|---------------------|
| 600 Series | X | X | | | | | | | |
| 700 Series | X* | X* | | | | | | | |
| 600MP (AN-04 – AN-08) | | | X | X | X | X | | | |
| 600HP (AN-04 – AN-08) | | | | | | | X | X | X |

*Motorsport use only

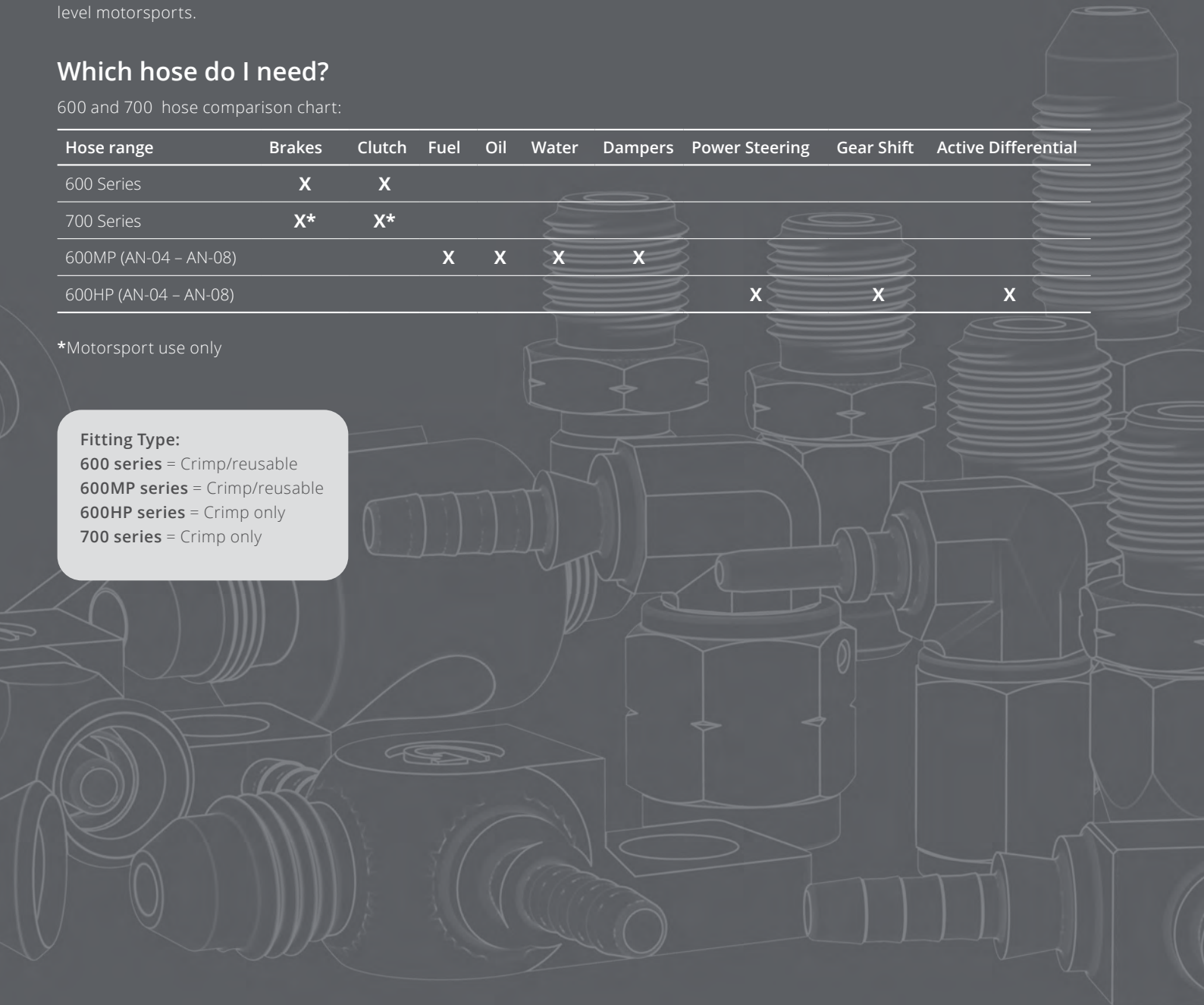
Fitting Type:

600 series = Crimp/reusable

600MP series = Crimp/reusable

600HP series = Crimp only

700 series = Crimp only



Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

Fluid applications:

Brake, Clutch & Hydraulics

Fitting Type:

Crimp / Reusable

Compatible fittings:

600 series

600 HOSE SERIES (AN02 & AN03)

The 600 series hose range is a PTFE lined hose, wrapped in a Stainless-Steel braid; designed for brake and clutch applications.

(AN-04, AN-06 & AN-08 600 series hoses and fittings are available in Medium Pressure and High Pressure variants.)

The PTFE liner is braided with Stainless Steel, to provide consistent brake and clutch pedal/lever feel, eliminating any sponginess that may be found with the equivalent rubber hose. There is an option for the Stainless-Steel braid to be wrapped in an abrasive resistant covering that can be wiped clean.

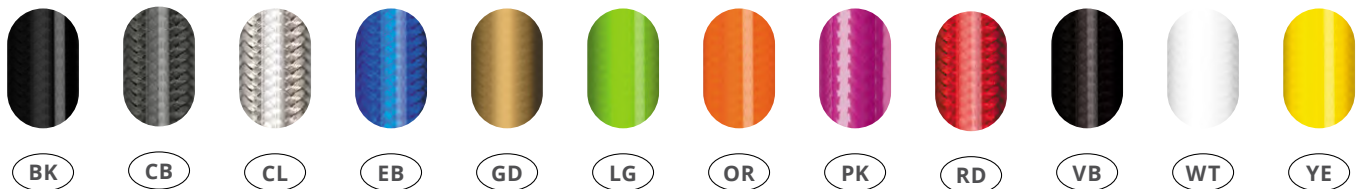
Compatible with reusable and crimp fittings. (Specialist equipment required).



Data in this table is for the hose only

| Part No. | Dash  Size | Max Bore Size  mm / inches | Cover  Material | Outer Diameter  mm / inches | Cover OD  mm / inches | PTFE Wall  mm / inches | Cover Wall  mm / inches | Working Press  Bar / Psi | Burst Pres  Bar / Psi | Weight  Kg/M / Lb/Ft | Min Bend Rad  mm / inches | Temp Range  °C / °F |
|----------|---|---|--|--|--|---|--|--|--|---|--|--|
| *600-02 | -02 | 2,03 (0,080) | Steel (bare) | 5,08 (0,200) | - | 1 (0,039) | - | 450 (6525) | 1350 (19580) | 0,045 (0,03) | 13 (0,51) | -70/+260 (-94/+500) |
| *600-03 | -03 | 3,5 (0,138) | Steel (bare) | 6,40 (0,252) | - | 1 (0,039) | - | 290 (4205) | 870 (12618) | 0,06 (0,04) | 38 (1,50) | -70/+260 (+94/+500) |
| 600-03BK | -03 | 3,5 (0,138) | Black | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03CB | -03 | 3,5 (0,138) | Carbon | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03CL | -03 | 3,5 (0,138) | Clear | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03EB | -03 | 3,5 (0,138) | Electric blue | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03GD | -03 | 3,5 (0,138) | Gold | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03LG | -03 | 3,5 (0,138) | Light green | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03OR | -03 | 3,5 (0,138) | Orange | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03PK | -03 | 3,5 (0,138) | Pink | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03RD | -03 | 3,5 (0,138) | Red | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03VB | -03 | 3,5 (0,138) | Vintage black | 6,40 (0,252) | 7,7 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -40/+125 (-40/+257) |
| 600-03WT | -03 | 3,5 (0,138) | White | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |
| 600-03YE | -03 | 3,5 (0,138) | Yellow | 6,40 (0,252) | 7,5 (0,295) | 1 (0,039) | 0,5 (0,019) | 290 (4205) | 870 (12618) | 0,088 (0,0592) | 38 (1,50) | -10/+60 (+14/+140) |

*Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 260°C.



Fluid applications:

Brake, Clutch, Pressure Gauge, Fuel Injection, Fire extinguisher, Nitrous, Pneumatics & Hydraulics.

Fitting Type:

Crimp

Compatible fittings:

600 series

700K HOSE SERIES (AN03)

The 700 series hose range is a PTFE lined light weight equivalent to the 600 series, wrapped in an Aramid fibre braid. Motorsport use only.

Applications include brake, clutch, fuel injection, fire extinguisher, nitrous, pressure gauge and hydraulics.

The PTFE liner is braided in light weight Aramid fibre, providing consistent brake and clutch pedal/lever feel (When used for brake/clutch applications), whilst eliminating any sponginess that may be found with the equivalent rubber hose.

Compatible with crimp fittings. (Specialist equipment required).



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Cover Material | Outer Diameter mm / inches | Cover OD mm / inches | PTFE Wall mm / inches | Cover Wall mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|-----------|--------------|------------------------------|-------------------|-------------------------------|-------------------------|--------------------------|---------------------------|----------------------------|-------------------------|------------------------|-----------------------------|------------------------|
| 700K-03 | -03 | 3,5 (0,138) | - | 6,7 (0,264) | - | 1,0 (0,039) | - | 200 (2900) | 600 (8702) | 0,059 (0,04) | 38 (1,50) | -45/+170 (-49/+338) |
| 700K-03BK | -03 | 3,5 (0,138) | Black PVC | 8,1 (0,320) | 8,1 (0,320) | 1,0 (0,039) | 0,5 (0,019) | 200 (2900) | 600 (8702) | 0,059 (0,04) | 38 (1,50) | -20/+85 (-4/+185) |

Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 185°C.



All crimped hose assemblies must be assembled by trained Goodridge personnel. Please contact Goodridge directly or find an approved Goodridge G-Tech centre at www.goodridge.com/distributors

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

440**Straight male concave seat**

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|----------|--------------|----------|-----|------|
| 440-03C | -03 | 3/8 x 24 | C | - |
| 440-03CH | -03 | 3/8 x 24 | CH | - |
| 440-03P | -03 | 3/8 x 24 | P | - |

441**Straight male convex seat**

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|----------|--------------|----------|-----|------|
| 441-03C | -03 | 3/8 x 24 | C | - |
| 441-03CH | -03 | 3/8 x 24 | CH | - |
| 441-03P | -03 | 3/8 x 24 | P | - |

443**Straight male bulkhead**

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|----------|--------------|----------|-----|------|
| 443-03C | -03 | 3/8 x 24 | C | - |
| 443-03CH | -03 | 3/8 x 24 | CH | - |
| 443-03P | -03 | 3/8 x 24 | P | - |

443BNP**Straight male bulkhead bleed nipple**

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-----------|--------------|----------|-----|--------------------------|
| 443-03BNP | -03 | 3/8 x 24 | P | Use locknut part no .924 |

6001**Straight female concave seat**

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-------------|--------------|-----------|-----|--------------|
| 6001-02-03C | -02 | 3/8 x 24 | C | for -02 hose |
| 6001-02C | -02 | 5/16 x 24 | C | - |
| 6001-03-04C | -03 | 7/16 x 20 | C | for -03 hose |
| 6001-03C | -03 | 3/8 x 24 | C | - |
| 6001-03CH | -03 | 3/8 x 24 | CH | - |
| 6001-03D | -03 | 3/8 x 24 | D | - |
| 6001-03P | -03 | 3/8 x 24 | P | - |

600 series JIC/UNF reusable fittings (AN-02, AN-03)

The following 600 series reusable fittings are compatible with 600 series AN-02 & AN-03 bore size hoses.

The body seals to the hose using an olive and socket, as per diagram below.

Olives and sockets are available to purchase separately.

**Fitting type:**

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-02, AN-03)

Material:

CH, C, D, P, Z1

Colours available:

D = Red & Blue anodised aluminium.

Example part no:

6001-03P = Zinc plated carbon steel



Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

600 series JIC/UNF reusable fittings (AN-02, AN-03)

The following 600 series reusable fittings are compatible with 600 series AN-02 & AN-03 bore size hoses.

The body seals to the hose using an olive and socket, as per diagram below.

Olives and sockets are available to purchase separately.



Fitting type:

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-02, AN-03)

Material:

CH, C, D, P, Z1

Colours available:

D = Red & Blue anodised aluminium.

Example part no:

6001-03P = Zinc plated carbon steel

6046



45° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-----------|--------------|----------|-----|------|
| 6046-03C | -03 | 3/8 x 24 | C | - |
| 6046-03CH | -03 | 3/8 x 24 | CH | - |
| 6046-03D | -03 | 3/8 x 24 | D | - |
| 6046-03P | -03 | 3/8 x 24 | P | - |

6045



45° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-------------|--------------|----------|-----|--------------|
| 6045-02-03C | -02 | 3/8 x 24 | C | for -02 hose |
| 6045-03C | -03 | 3/8 x 24 | C | - |
| 6045-03D | -03 | 3/8 x 24 | D | - |
| 6045-03P | -03 | 3/8 x 24 | P | - |

6645



45° forged female double swivel concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|----------|--------------|----------|-----|------|
| 6645-03C | -03 | 3/8 x 24 | C | - |

6091



90° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-----------|--------------|----------|-----|------|
| 6091-03C | -03 | 3/8 x 24 | C | - |
| 6091-03CH | -03 | 3/8 x 24 | CH | - |
| 6091-03D | -03 | 3/8 x 24 | D | - |
| 6091-03P | -03 | 3/8 x 24 | P | - |

6090



90° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-------------|--------------|-----------|-----|--------------|
| 6090-02-03C | -02 | 3/8 x 24 | C | for -02 hose |
| 6090-02C | -02 | 5/16 x 24 | C | - |
| 6090-03C | -03 | 3/8 x 24 | C | - |
| 6090-03D | -03 | 3/8 x 24 | D | - |
| 6090-03P | -03 | 3/8 x 24 | P | - |

6690



90° forged female double swivel concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|----------|--------------|----------|-----|------|
| 6690-03C | -03 | 3/8 x 24 | C | - |
| 6690-03P | -03 | 3/8 x 24 | P | - |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

704

Fixed female bulkhead convex seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|----------|--------------|----------|-----|----------------------------|
| 704-03P | -03 | 3/8 x 24 | P | Use locknut part no 2k8686 |

746

Fixed female bulkhead concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|----------|--------------|---------------------|-----|----------------------------|
| 746-03P | -03 | 3/8 x 20BSF (inner) | P | Use locknut part no 2k8686 |

756

Fixed female bulkhead convex seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|----------|--------------|----------|-----|------|
| 756-03P | -03 | 3/8 x 24 | P | |

758

Fixed female bulkhead concave seat circlip groove

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|------------|--------------|----------|-----|------|
| 758-03-03P | -03 | 3/8 x 24 | P | |

759

Fixed female bulkhead convex seat circlip groove

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|------------|--------------|----------|-----|------|
| 759-03-03P | -03 | 3/8 x 24 | P | - |

600 series JIC/UNF reusable fittings (AN-02, AN-03)

The following 600 series reusable fittings are compatible with 600 series AN-02 & AN-03 bore size hoses.

The body seals to the hose using an olive and socket, as per diagram below.

Olives and sockets are available to purchase separately.

**Fitting type:**

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-02, AN-03)

Material:

CH, C, D, P, Z1

Colours available:

D = Red & Blue anodised aluminium.

Example part no:

6001-03P = Zinc plated carbon steel



Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

600 series metric reusable fittings (AN-03)

The following 600 series reusable fittings are compatible with 600 series AN-03 bore size hoses.

The body seals to the hose using an olive and socket, as per diagram below.

Olives and sockets are available to purchase separately.



Fitting type:

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

Material:

CH, C, D, P, Z1

Example part no:

442-31P = Zinc plated carbon steel

442



Straight male concave seat

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|-------------|
| 442-31C | -03 | M10 x 1,00 | C | - |
| 442-31CH | -03 | M10 x 1,00 | CH | - |
| 442-31D | -03 | M10 x 1,00 | D | - |
| 442-31LP | -03 | M10 x 1,00 | P | Long thread |
| 442-31P | -03 | M10 x 1,00 | P | - |
| 442-32P | -03 | M10 x 1,25 | P | - |

444



Straight male concave bulkhead

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|------|
| 444-31P | -03 | M10 x 1,00 | P | - |

445



Straight male convex seat

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|------|
| 445-31C | -03 | M10 x 1,00 | C | - |
| 445-31CH | -03 | M10 x 1,00 | CH | - |
| 445-31P | -03 | M10 x 1,00 | P | - |
| 445-32P | -03 | M10 x 1,25 | P | - |

446



Convex metric seat bulkhead

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|------|
| 446-31C | -03 | M10 x 1,00 | C | - |
| 446-31P | -03 | M10 x 1,00 | P | - |
| 446-32P | -03 | M10 x 1,25 | P | - |

448



Straight male flat seat

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|------|
| 448-31P | -03 | M10 x 1,00 | P | - |



Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

492**Banjo bolt hose connectors**

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|------|
| 492-31P | -03 | M10 x 1,00 | P | - |

451**Straight female concave metric seat**

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|------|
| 451-31C | -03 | M10 x 1,00 | C | - |
| 451-31P | -03 | M10 x 1,00 | P | - |

452**Straight female convex metric seat**

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|------|
| 452-31C | -03 | M10 x 1,00 | C | - |
| 452-31P | -03 | M10 x 1,00 | P | - |

6001VW**Straight fixed female concave metric seat (vw/audi)**

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|------------|-----|---------|
| 6001-31CVW | -03 | M10 x 1,00 | C | VW/Audi |
| 6001-32Z1VW | -03 | M10 x 1,25 | Z1 | VW/Audi |

6645**45° forged female double swivel concave seat**

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|------|
| 6645-31C | -03 | M10 x 1,00 | C | - |

6690**90° forged female double swivel concave seat**

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|------------|-----|------|
| 6690-31C | -03 | M10 x 1,00 | C | - |

600 series metric reusable fittings (AN-03)

The following 600 series reusable fittings are compatible with 600 series AN-03 bore size hoses.

The body seals to the hose using an olive and socket, as per diagram below.

Olives and sockets are available to purchase separately.

**Fitting type:**

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

Material:

CH, C, D, P, Z1

Example part no:

442-31P = Zinc plated carbon steel

600 series Metric reusable fittings (AN-03)

The following 600 series reusable fittings are compatible with 600 series AN-03 bore size hoses.

The body seals to the hose using an olive and socket, as per diagram below.

Olives and sockets are available to purchase separately.



749



Fixed female bulkhead concave metric seat

| Part No. | To suit hose | Thread | Mat | Note |
|------------|--------------|------------|-----|----------------------------|
| 749-03-31P | -03 | M10 x 1,00 | P | Use locknut part no 2k8686 |
| 749-03-32P | -03 | M10 x 1,25 | P | Use locknut part no 2k8686 |

750



Fixed female bulkhead convex metric seat

| Part No. | To suit hose | Thread | Mat | Note |
|------------|--------------|------------|-----|----------------------------|
| 750-03-31P | -03 | M10 x 1,00 | P | Use locknut part no 2k8686 |
| 750-03-32P | -03 | M10 x 1,25 | P | Use locknut part no 2k8686 |

754



Fixed female bulkhead convex metric seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|------------|--------------|------------|-----|--------------------|
| 754-03-31P | -03 | M10 x 1,00 | P | 17 mm hex - Subaru |

755



Fixed female bulkhead convex metric seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|------------|--------------|------------|-----|-----------|
| 755-03-31P | -03 | M10 x 1,00 | P | 19 mm hex |

756



Fixed female bulkhead concave metric seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|------------|--------------|------------|-----|-----------|
| 756-03-31P | -03 | M10 x 1,00 | P | 19 mm hex |

Fitting type:

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

Material:

CH, C, D, P, Z1

Example part no:

442-31P = Zinc plated carbon steel

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

757

Fixed female bulkhead convex metric seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|------------|--------------|------------|-----|--------------------|
| 757-03-31P | -03 | M10 x 1,00 | P | 17 mm hex - Toyota |

758

Fixed female bulkhead concave metric seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|------------|-----|-----------|
| 758-03-31P | -03 | M10 x 1,00 | P | - |
| 758-03-31SP | -03 | M10 x 1,00 | P | 17 mm hex |
| 758-03-32P | -03 | M10 x 1,25 | P | - |

759

Fixed female bulkhead convex metric seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|------------|-----|-----------|
| 759-03-31P | -03 | M10 x 1,00 | P | - |
| 759-03-31SP | -03 | M10 x 1,00 | P | 17 mm hex |
| 759-03-32CH | -03 | M10 x 1,25 | CH | - |
| 759-03-32P | -03 | M10 x 1,25 | P | - |

600 series Metric reusable fittings (AN-03)

The following 600 series reusable fittings are compatible with 600 series AN-03 bore size hoses.

The body seals to the hose using an olive and socket, as per diagram below.

Olives and sockets are available to purchase separately.

**Fitting type:**

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

Material:

CH, C, D, P, Z1

Example part no:

442-31P = Zinc plated carbon steel



Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

600 series BSP reusable fittings (AN-03)

The following 600 series reusable fittings are compatible with 600 series AN-03 bore size hoses.

(AN-04MP reusable fittings for use with AN-04MP hose can be found in the MP section)

The body seals to the hose using an olive and socket, as per diagram below.

Olives and sockets are available to purchase separately.



Fitting type:

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

Material:

CH, C, P, Z1

Example part no:

321-03P = Zinc plated carbon steel

321



Straight female

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|----------|-----|------|
| 321-03CH | -03 | BSP 1/8" | CH | - |
| 321-03P | -03 | BSP 1/8" | P | - |

321SM



Straight female to suit smith pressure gauge

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|----------|-----|---------------------------|
| 321-03SMP | -03 | BSP 1/8" | P | Flat face requires gasket |

323



Straight male

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|----------|-----|------|
| 323-03P | -03 | BSP 1/8" | P | - |

331



45° swept tube female

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|----------|-----|------|
| 331-03P | -03 | BSP 1/8" | P | - |

332



90° swept tube female

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|----------|-----|------|
| 332-03P | -03 | BSP 1/8" | P | - |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

5091

Straight banjo

| Part No. | To suit hose | Hole size | Mat | Note |
|--------------|--------------|-----------------|-----|------|
| 5091-03-04C | -03 | 7/16" (11,2 mm) | C | - |
| 5091-03-04CH | -03 | 7/16" (11,2 mm) | CH | - |
| 5091-03-04P | -03 | 7/16" (11,2 mm) | P | - |
| 5091-03C | -03 | 3/8" (10 mm) | C | - |
| 5091-03CH | -03 | 3/8" (10 mm) | CH | - |
| 5091-03D | -03 | 3/8" (10 mm) | D | - |
| 5091-03P | -03 | 3/8" (10 mm) | P | - |

5092

Straight banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|---------------|--------------|-----------------|-----|------|
| 5092-02-03C | -02 | 3/8" (10 mm) | C | - |
| 5092-02C | -02 | 5/16" (8 mm) | C | - |
| 5092-03-02C | -03 | 5/16" (8 mm) | C | - |
| 5092-03-02P | -03 | 5/16" (8 mm) | P | - |
| 5092-03-04C | -03 | 7/16" (11,2 mm) | C | - |
| 5092-03-04CH | -03 | 7/16" (11,2 mm) | CH | - |
| 5092-03-04P | -03 | 7/16" (11,2 mm) | P | - |
| 5092-03-M12P | -03 | 12 mm | P | - |
| 5092-03-M12C | -03 | 12 mm | C | - |
| 5092-03-M12CH | -03 | 12 mm | CH | - |
| 5092-03C | -03 | 3/8" (10 mm) | C | - |
| 5092-03CH | -03 | 3/8" (10 mm) | CH | - |
| 5092-03D | -03 | 3/8" (10 mm) | D | - |
| 5092-03P | -03 | 3/8" (10 mm) | P | - |

5093

20° banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|---------------|--------------|-----------------|-----|------|
| 5093-02-03C | -02 | 3/8" (10 mm) | C | - |
| 5093-02C | -02 | 5/16" (8 mm) | C | - |
| 5093-03-04C | -03 | 7/16" (11,2 mm) | C | - |
| 5093-03-04CH | -03 | 7/16" (11,2 mm) | CH | - |
| 5093-03-04P | -03 | 7/16" (11,2 mm) | P | - |
| 5093-03-M12C | -03 | 3/8" (10 mm) | C | - |
| 5093-03-M12CH | -03 | 3/8" (10 mm) | CH | - |
| 5093-03C | -03 | 3/8" (10 mm) | C | - |
| 5093-03CH | -03 | 3/8" (10 mm) | CH | - |
| 5093-03D | -03 | 3/8" (10 mm) | D | - |
| 5093-03P | -03 | 3/8" (10 mm) | P | - |

5097

20° banjo side extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|-----------|--------------|--------------|-----|------|
| 5097-03C | -03 | 3/8" (10 mm) | C | - |
| 5097-03CH | -03 | 3/8" (10 mm) | CH | - |
| 5097-03D | -03 | 3/8" (10 mm) | D | - |
| 5097-03P | -03 | 3/8" (10 mm) | P | - |

600 series Banjo reusable fittings (AN-02 & AN-03)

The following 600 series reusable banjo fittings are compatible with 600 series AN-02 and AN-03 bore size hoses.

Olives and sockets are available to purchase separately.

**Fitting type:**

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-02 & AN-03)

Material:

CH, C, D, P, Z1

D = Aluminium (Red & Blue)

Example part no:

5094-03P = Zinc plated carbon steel

600 series Banjo reusable fittings (AN-02 & AN-03)

The following 600 series reusable banjo fittings are compatible with 600 series AN-02 and AN-03 bore size hoses.

Olives and sockets are available to purchase separately.



Fitting type:

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-02 & AN-03)

Material:

CH, C, D, P, Z1

D = Aluminium (Red & Blue)

Example part no:

5094-03P = Zinc plated carbon steel

5094



45° banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|-------------|--------------|--------------|-----|------|
| 5094-02-03C | -02 | 3/8" (10 mm) | C | - |
| 5094-03C | -03 | 3/8" (10 mm) | C | - |
| 5094-03CH | -03 | 3/8" (10 mm) | CH | - |
| 5094-03D | -03 | 3/8" (10 mm) | D | - |
| 5094-03P | -03 | 3/8" (10 mm) | P | - |

5070



70° banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|-----------|--------------|--------------|-----|------|
| 5070-03C | -03 | 3/8" (10 mm) | C | - |
| 5070-03CH | -03 | 3/8" (10 mm) | CH | - |
| 5070-03P | -03 | 3/8" (10 mm) | P | - |

5099



90° banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|--------------|--------------|-----------------|-----|------|
| 5099-03-04C | -03 | 7/16" (11,2 mm) | C | - |
| 5099-03-04CH | -03 | 7/16" (11,2 mm) | CH | - |
| 5099-03C | -03 | 3/8" (10 mm) | C | - |
| 5099-03CH | -03 | 3/8" (10 mm) | CH | - |
| 5099-03D | -03 | 3/8" (10 mm) | D | - |
| 5099-03P | -03 | 3/8" (10 mm) | P | - |

5099S



90° banjo side extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|-----------|--------------|--------------|-----|------|
| 5099S-03C | -03 | 3/8" (10 mm) | C | - |
| 5099S-03P | -03 | 3/8" (10 mm) | P | - |

5095



Straight twin banjo

| Part No. | To suit hose | Hole size | Mat | Note |
|----------|--------------|--------------|-----|------|
| 5095-03C | -03 | 3/8" (10 mm) | C | - |
| 5095-03P | -03 | 3/8" (10 mm) | P | - |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

5098

Banjo twin extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|----------|--------------|--------------|-----|------|
| 5098-03C | -03 | 3/8" (10 mm) | C | - |
| 5098-03P | -03 | 3/8" (10 mm) | P | - |

5096

90° double banjo

| Part No. | To suit hose | Hole size | Mat | Note |
|----------|--------------|--------------|-----|------|
| 5096-03C | -03 | 3/8" (10 mm) | C | - |

5130

Tee fitting JIC/UNF with locating lug

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|----------|-----|
| 5130-03C | -03 | 3/8 x 24 | C |

5131

Tee fitting with male JIC/UNF leg

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|----------|-----|
| 5131-03C | -03 | 3/8 x 24 | C |

600 series Banjo reusable fittings (AN-02 & AN-03)

The following 600 series reusable banjo fittings are compatible with 600 series AN-02 and AN-03 bore size hoses.

Fitting type:*Reusable***Applications:***Brake & Clutch***Compatible hose:***600 series (AN-02 & AN-03)***Material:***C, H, D, P, Z1**D = Aluminium (Red & Blue)***Example part no:***5094-03P = Zinc plated carbon steel*

600 series reusable T fittings (AN-02 & AN-03)

The following 600 series reusable T fitting range is compatible with 600 series AN-02 and AN-03 bore size hoses.

Fitting type:*Reusable***Applications:***Brake & Clutch***Compatible hose:***600 series (AN-02 & AN-03)***Material:***C, D, B**D = Aluminium (Red & Blue)***Example part no:***5135-03D = Aluminium Red & Blue*

Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

600 series reusable T fittings (AN-02 & AN-03)

The following 600 series reusable T fitting range is compatible with 600 series AN-02 and AN-03 bore size hoses.

5132



Tee fitting with male JIC/UNF lug

| Part No. | To suit hose | JIC/UNF | Mat |
|----------|--------------|----------|-----|
| 5132-03C | -03 | 3/8 x 24 | C |

5135



Tee hose fitting

| Part No. | To suit hose | Thread | Mat |
|----------|--------------|--------|-----|
| 5135-02C | -02 | - | C |
| 5135-03C | -03 | - | C |
| 5135-03D | -03 | - | D |

5136



Tee hose fitting with locating lug

| Part No. | To suit hose | Thread | Mat |
|----------|--------------|--------|-----|
| 5136-03C | -03 | - | C |

5140



Tee hose fitting with M10 female

| Part No. | To suit hose | Thread A | Thread B | Mat |
|----------|--------------|----------|----------|-----|
| 5140-03C | -03 | 3/8 x 24 | M10 | C |

Fitting type:

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

Material:

C, D, B

D = Aluminium (Red & Blue)

Example part no:

5135-03D = Aluminium Red & Blue



Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

2203

Female 3-way fitting - JIC/UNF or Metric

| Part No. | To suit hose | Thread | Mat |
|----------|--------------|------------|-----|
| 2203-03B | -03 | 3/8 x 24 | B |
| 319-31B | -03 | M10 x 1,00 | B |

2204

Female 4-way fitting - JIC/UNF or Metric

| Part No. | To suit hose | Thread | Mat |
|----------|--------------|------------|-----|
| 2204-03B | -03 | 3/8 x 24 | B |
| 2204-31B | -03 | M10 x 1,00 | B |

1205

Replacement olive for 600 fitting

| Part No. | Mat | To suit |
|----------|-----|---------|
| 1205-02B | B | -02 |
| 1205-03B | B | -03 |
| 1205-03C | C | -03 |
| 1205-03D | D | -03 |

1206

Replacement socket for 600 fitting

| Part No. | Mat | To suit |
|-----------|-----|---------|
| 1206-02C | C | -02 |
| 1206-03C | C | -03 |
| 1206-03CH | CH | -03 |
| 1206-03D | D | -03 |
| 1206-03P | P | -03 |

600 series reusable T fittings (AN-02 & AN-03)

The following 600 series reusable T fitting range is compatible with 600 series AN-02 and AN-03 bore size hoses.

Fitting type:

Reusable

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

Material:

C, D, B

D = Aluminium (Red & Blue)

Example part no:

5135-03D = Aluminium Red & Blue

Replacement olives and sockets for 600 series reusable fittings (AN-02 & AN-03)

Replacement olives and sockets are available for AN-02 & AN-03 bore size reusable fittings.

Fitting type:

Reusable

Applications:

Brake & Clutch

Compatible fitting:

600 series (AN-02 & AN-03)

Material:

B, C, CH, D (Red), P, Z1

600 series JIC/UNF crimp fittings (AN-02 & AN-03)

The following 600 series JIC/UNF crimp fittings are compatible with 600 series AN-02 and AN-03 & 700K AN-03 bore sizes.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-02 & AN-03)
700K series (AN-03)

Material:

C, CBK, CH, D (blue), P, Z1

Example part no:

S6046-03Z1 = Silver plated carbon steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

S440



Straight male concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-----------|--------------|----------|-----|------|
| S440-03Z1 | -03 | 3/8 x 24 | Z1 | - |

S441



Straight male convex seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-----------|--------------|----------|-----|------|
| S441-03C | -03 | 3/8 x 24 | C | - |
| S441-03Z1 | -03 | 3/8 x 24 | Z1 | - |

S443



Straight male bulkhead convex seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-------------|--------------|----------|-----|--|
| S443-03BNZ1 | -03 | 3/8 x 24 | Z1 | integral bleed nipple - use locknut 924-03 |
| S443-03C | -03 | 3/8 x 24 | C | use locknut 924-03 |
| S443-03Z1 | -03 | 3/8 x 24 | Z1 | use locknut 924-03 |

S449



Straight male flat seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-----------|--------------|----------|-----|------|
| S449-03Z1 | -03 | 3/8 x 24 | Z1 | - |

S6001



Straight female concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|--------------|--------------|-----------|-----|-------|
| S6001-02-03C | -02 | 3/8 x 24 | C | - |
| S6001-02C | -02 | 5/16 x 24 | C | - |
| S6001-03-04C | -03 | 7/16 x 20 | C | - |
| S6001-03C | -03 | 3/8 x 24 | C | - |
| S6001-03CBK | -03 | 3/8 x 24 | C | Black |
| S6001-03CH | -03 | 3/8 x 24 | CH | - |
| S6001-03D | -03 | 3/8 x 24 | D | - |
| S6001-03DBK | -03 | 3/8 x 24 | D | Black |
| S6001-03Z1 | -03 | 3/8 x 24 | Z1 | - |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

S6046

45° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-------------|--------------|----------|-----|-------|
| S6046-03C | -03 | 3/8 x 24 | C | - |
| S6046-03CH | -03 | 3/8 x 24 | CH | - |
| S6046-03D | -03 | 3/8 x 24 | D | - |
| S6046-03DBK | -03 | 3/8 x 24 | D | Black |
| S6046-03Z1 | -03 | 3/8 x 24 | Z1 | - |

S6045

45° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-----------|--------------|-----------|-----|------|
| S6045-02C | -02 | 5/16 x 24 | C | - |
| S6045-03C | -03 | 3/8 x 24 | C | - |
| S6045-03D | -03 | 3/8 x 24 | D | - |

S6645

45° forged female double swivel caliper fitting

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|------------|--------------|----------|-----|--------------|
| S6645-03CV | -03 | 3/8 x 24 | C | Viton o-ring |
| S6645-03CK | -03 | 3/8 x 24 | C | FFKM o-ring |

S6091

90° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|--------------|--------------|-----------|-----|-------|
| S6091-02-03C | -02 | 3/8 x 24 | C | - |
| S6091-03-04P | -03 | 7/16 x 20 | P | - |
| S6091-03C | -03 | 3/8 x 24 | C | - |
| S6091-03CH | -03 | 3/8 x 24 | CH | - |
| S6091-03D | -03 | 3/8 x 24 | D | - |
| S6091-03DBK | -03 | 3/8 x 24 | D | Black |
| S6091-03Z1 | -03 | 3/8 x 24 | Z1 | - |

S6090

90° forged female concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|--------------|--------------|-----------|-----|------|
| S6090-02-03C | -02 | 3/8 x 24 | C | - |
| S6090-02C | -02 | 5/16 x 24 | C | - |
| S6090-03-02C | -03 | 5/16 x 24 | C | - |
| S6090-03C | -03 | 3/8 x 24 | C | - |
| S6090-03D | -03 | 3/8 x 24 | D | - |
| S6090-03Z1 | -03 | 3/8 x 24 | Z1 | - |

600 series JIC/UNF crimp fittings (AN-02 & AN-03)

The following 600 series JIC/UNF crimp fittings are compatible with 600 series AN-02 and AN-03 & 700K AN-03 bore sizes.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:600 series (AN-02 & AN-03)
700K series (AN-03)**Material:**

C, CBK, CH, D (blue), P, Z1

Example part no:

S6046-03Z1 = Silver plated carbon steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

600 series JIC/UNF crimp fittings (AN-02 & AN-03)

The following 600 series JIC/UNF crimp fittings are compatible with 600 series AN-02 and AN-03 & 700K AN-03 bore sizes.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-02 & AN-03)
700K series (AN-03)

Material:

C, CBK, CH, D (blue), P, Z1

Example part no:

S6046-03Z1 = Silver plated carbon steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

S6690



90° forged female double swivel caliper fitting

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|------------|--------------|----------|-----|--------------|
| S6690-03CV | -03 | 3/8 x 24 | C | Viton o-ring |
| S6690-03CK | -03 | 3/8 x 24 | C | FFKM o-ring |

S747



Fixed female convex seat w/circlip groove 17mm hex

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-----------|--------------|----------|-----|------|
| S747-03Z1 | -03 | 3/8 x 24 | Z1 | - |

S758



Straight female concave seat w/circlip groove

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|--------------|--------------|----------|-----|----------|
| S758-03-03Z1 | -03 | 3/8 x 24 | Z1 | 19mm hex |

S748



Fixed female bulkhead concave seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-------------|--------------|----------|-----|---------------------------------------|
| S748-03Z1 | -03 | 3/8 x 24 | Z1 | - |
| S748-03Z1DS | -03 | 3/8 x 24 | Z1 | MINI 91 ON - use locknut 2K8686 |

S756



Fixed female bulkhead convex seat

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|-----------|--------------|----------|-----|------|
| S756-03Z1 | -03 | 3/8 x 24 | Z1 | - |

S759



Straight female convex seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|---------------|--------------|-----------|-----|-----------|
| S759-03-03SZ1 | -03 | 3/8 x 24 | Z1 | 17 mm hex |
| S759-03-03Z1 | -03 | 3/8 x 24 | Z1 | - |
| S759-03-44Z1 | -03 | 7/16 x 24 | Z1 | - |



All crimped hose assemblies must be assembled by trained Goodridge personnel. Please contact Goodridge directly or find an approved Goodridge G-Tech centre at www.goodridge.com/distributors

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

S442

Straight male concave seat

| Part No. | To suit hose | Thread | Mat | Note |
|------------|--------------|------------|-----|------|
| S442-31C | -03 | M10 x 1,00 | C | - |
| S442-31LZ1 | -03 | M10 x 1,00 | Z1 | Long |

S444

Straight male concave bulkhead

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|------------|-----|------|
| S444-31Z1 | -03 | M10 x 1,00 | Z1 | - |

S445

Straight male dual seat

| Part No. | To suit hose | Thread | Mat | Note |
|---------------|--------------|------------|-----|------|
| S445-03-M121C | -03 | M12 x 1,00 | C | - |
| S445-31C | -03 | M10 x 1,00 | C | - |
| S445-31Z1 | -03 | M10 x 1,00 | Z1 | - |
| S445-32Z1 | -03 | M10 x 1,25 | Z1 | - |

S445-01

Straight male swivel metric dual seat

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|------------|-----|------|
| S445-0131C | -03 | M10 x 1,00 | C | - |
| S445-0131Z1 | -03 | M10 x 1,00 | Z1 | - |
| S445-0132C | -03 | M10 x 1,25 | C | - |
| S445-0132Z1 | -03 | M10 x 1,25 | Z1 | - |

S446

Straight male bulkhead

| Part No. | To suit hose | Thread | Mat | Note |
|----------------|--------------|------------|-----|--------------------|
| S446-31C | -03 | M10 x 1,00 | C | use locknut 318-31 |
| S446-31Z1 | -03 | M10 x 1,00 | Z1 | use locknut 318-31 |
| S446-03-M121LP | -03 | M12 x 1,00 | P | Long |
| S446-03-M121Z | -03 | M12 x 1,00 | Z1 | - |

S492

Banjo bolt connector

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|------------|-----|------|
| S492-31Z1 | -03 | M10 x 1,00 | Z1 | - |

600 series Metric crimp fittings (AN-03)

The following Goodridge 600 series metric crimp fittings are compatible with 600 & 700K series AN-03 bore size.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:600 series (AN-03)
700K series (AN-03)**Material:**

C, CH, P, Z1

Example part no:

S445-31C = Stainless Steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

Metric dual seat fittings will seal with either concave or convex metric fittings.

600 series Metric crimp fittings (AN-03)

The following Goodridge 600 series metric crimp fittings are compatible with 600 & 700K series AN-03 bore size.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)
700K series (AN-03)

Material:

C, CH, P, Z1

Example part no:

S445-31C = Stainless Steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

Metric dual seat fittings will seal with either concave or convex metric fittings.

S445-20



20° male swivel metric dual seat

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|------------|-----|------|
| S445-2031C | -03 | M10 x 1,00 | C | - |
| S445-2031Z1 | -03 | M10 x 1,00 | Z1 | - |

S445-45



45° male swivel metric dual seat

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|------------|-----|------|
| S445-4531C | -03 | M10 x 1,00 | C | - |
| S445-4531Z1 | -03 | M10 x 1,00 | Z1 | - |

S445-90



90° male swivel metric dual seat

| Part No. | To suit hose | Thread | Mat | Note |
|--------------|--------------|------------|-----|------|
| S445-9031C | -03 | M10 x 1,00 | C | - |
| S445-9031Z1 | -03 | M10 x 1,00 | Z1 | - |
| S445-90M121C | -03 | M12 x 1,00 | C | - |

S6090



90° male swivel caliper fitting

| Part No. | To suit hose | Thread | Mat | Note |
|-----------------|--------------|------------|-----|------------------|
| S6090M-31CSW | -03 | M10 x 1,00 | C | High temp o-ring |
| S6090M-31CSW-LT | -03 | M10 x 1,00 | C | EPDM o-ring |

S451



Female concave swivel

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|------------|-----|------|
| S451-31C | -03 | M10 x 1,00 | C | - |
| S451-31Z1 | -03 | M10 x 1,00 | Z1 | - |

S452



Female convex swivel

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|------------|-----|------|
| S452-31C | -03 | M10 x 1,00 | C | - |
| S452-31Z1 | -03 | M10 x 1,00 | Z1 | - |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

S6090

90° forged female concave seat

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|------------|-----|------|
| S6090-31C | -03 | M10 x 1,00 | C | - |

S749

Fixed female bulkhead concave metric seat

| Part No. | To suit hose | Thread | Mat | Note |
|--------------|--------------|------------|-----|--------------------|
| S749-03-31C | -03 | M10 x 1,00 | C | use locknut 2K8686 |
| S749-03-31Z1 | -03 | M10 x 1,00 | Z1 | use locknut 2K8686 |
| S749-03-32Z1 | -03 | M10 x 1,25 | Z1 | use locknut 2K8686 |

S750

Fixed female bulkhead convex metric seat

| Part No. | To suit hose | Thread | Mat | Note |
|--------------|--------------|------------|-----|--------------------|
| S750-03-31Z1 | -03 | M10 x 1,00 | Z1 | use locknut 2K8686 |

S6001-31

Straight female concave seat

| Part No. | To suit hose | Thread | Mat | Note |
|----------------|--------------|------------|-----|------------|
| S6001-31CAU | -03 | M10 x 1,00 | C | AUDI |
| S6001-31CMN | -03 | M10 x 1,00 | C | BMW/MINI |
| S6001-31CVW | -03 | M10 x 1,00 | C | VW |
| S6001-31Z1VW | -03 | M10 x 1,00 | Z1 | VW |
| S6001-31CVWG7 | -03 | M10 x 1,00 | C | VW G7 |
| S6001-31Z1AU | -03 | M10 x 1,00 | Z1 | AUDI |
| S6001-31Z1LR | -03 | M10 x 1,00 | Z1 | Land Rover |
| S6001-31Z1MN | -03 | M10 x 1,00 | Z1 | BMW/MINI |
| S6001-31Z1PR | -03 | M10 x 1,00 | Z1 | PEUGEOT |
| S6001-31Z1VWG7 | -03 | M10 x 1,00 | Z1 | VWG7 |

600 series Metric crimp fittings (AN-03)

The following Goodridge 600 series metric crimp fittings are compatible with 600 & 700K series AN-03 bore size.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:600 series (AN-03)
700K series (AN-03)**Material:**

C, CH, P, Z1

Example part no:

S445-31C = Stainless Steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

Metric dual seat fittings will seal with either concave or convex metric fittings.



All crimped hose assemblies must be assembled by trained Goodridge personnel. Please contact Goodridge directly or find an approved Goodridge G-Tech centre at www.goodridge.com/distributors

600 series Metric crimp fittings (AN-03)

The following Goodridge 600 series metric crimp fittings are compatible with 600 & 700K series AN-03 bore size.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)
700K series (AN-03)

Material:

C, CH, P, Z1

Example part no:

S445-31C = Stainless Steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

Metric dual seat fittings will seal with either concave or convex metric fittings.

S754



Fixed female bulkhead convex metric seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|--------------|--------------|------------|-----|--------------------|
| S754-03-31C | -03 | M10 x 1,00 | C | 17 mm hex - Subaru |
| S754-03-31Z1 | -03 | M10 x 1,00 | Z1 | 17 mm hex - Subaru |

S755



Straight female convex metric seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|--------------|--------------|------------|-----|--------|
| S755-03-31Z1 | -03 | M10 x 1,00 | Z1 | Toyota |

S756



Straight female concave seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|---------------|--------------|------------|-----|------|
| S756-03-M121C | -03 | M12 x 1,00 | C | - |

S757



Straight female convex metric seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|----------------|--------------|------------|-----|-------------------------|
| S757-03-31C | -03 | M10 x 1,00 | C | 17 mm hex - Subaru |
| S757-03-31Z1 | -03 | M10 x 1,00 | Z1 | 17 mm rounded edges hex |
| S757-03-31Z1DS | -03 | M10 x 1,00 | Z1 | 17 mm hex, deep seat |
| S757-03-31Z1E | -03 | M10 x 1,00 | Z1 | 17 mm hex, extended |

S758



Straight female metric concave seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|----------------|--------------|------------|-----|----------------------|
| S758-03-31C | -03 | M10 x 1,00 | C | - |
| S758-03-31SC | -03 | M10 x 1,00 | C | 17 mm hex |
| S758-03-31SFC | -03 | M10 x 1,00 | C | 17 mm hex, flat face |
| S758-03-31SFZ1 | -03 | M10 x 1,00 | Z1 | 17 mm hex, flat face |
| S758-03-31SZ1 | -03 | M10 x 1,00 | Z1 | 17 mm hex |
| S758-03-31Z1 | -03 | M10 x 1,00 | Z1 | - |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

S759

Straight female convex seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|-----------------|--------------|------------|-----|--------------|
| S759-03-03SZ1 | -03 | 3/8 x 24 | Z1 | 17 mm hex |
| S759-03-03Z1 | -03 | 3/8 x 24 | Z1 | - |
| S759-03-31C | -03 | M10 x 1,00 | C | - |
| S759-03-31FBZ1 | -03 | M10 x 1,00 | Z1 | Flat face |
| S759-03-31FZ1 | -03 | M10 x 1,00 | Z1 | Flat hex |
| S759-03-31SC | -03 | M10 x 1,00 | C | 17 mm hex |
| S759-03-31SZ1 | -03 | M10 x 1,00 | Z1 | 17 mm hex |
| S759-03-31Z1 | -03 | M10 x 1,00 | Z1 | - |
| S759-03-31Z1BKT | -03 | M10 x 1,00 | Z1 | With bracket |
| S759-03-32Z1 | -03 | M10 x 1,25 | Z1 | - |
| S759-03-35SC | -03 | M10 x 1,50 | C | 17mm hex |
| S759-03-35SZ1 | -03 | M10 x 1,50 | Z1 | 17mm hex |
| S759-03-44Z1 | -03 | 7/16 x 24 | Z1 | - |
| S759-03-M121Z1 | -03 | M12 x 1,00 | Z1 | - |
| S759-9131C | -03 | M10 x 1,00 | C | - |
| S759-9131Z1 | -03 | M10 x 1,00 | Z1 | - |
| S760-03-31Z1 | -03 | M10 x 1,00 | Z1 | Toyota |

S762

Straight female (rounded edge) convex seat w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|---------------|--------------|------------|-----|-------------------|
| S762-03-31SZ1 | -03 | M10 x 1,00 | Z1 | 17 mm hex - Mazda |
| S762-03-31Z1 | -03 | M10 x 1,00 | Z1 | - |

S767

Straight female convex w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|--------------|--------------|------------|-----|------|
| S767-03-31C | -03 | M10 x 1,00 | C | - |
| S767-03-31Z1 | -03 | M10 x 1,00 | Z1 | - |

S768

Straight female concave w/circlip groove

| Part No. | To suit hose | Thread | Mat | Note |
|---------------|--------------|------------|-----|----------|
| S768-03-31SZ1 | -03 | M10 x 1,00 | Z1 | 17mm hex |

600 series Metric Crimp fittings (AN-03)

The following Goodridge 600 series metric crimp fittings are compatible with 600 & 700K series AN-03 bore size.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

700K series (AN-03)

Material:

C, CH, P, Z1

Example part no:

S445-31C = Stainless Steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

Metric dual seat fittings will seal with either concave or convex metric fittings.

600 series Metric crimp fittings (AN-03)

The following Goodridge 600 series metric crimp fittings are compatible with 600 & 700K series AN-03 bore size.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

700K series (AN-03)

Material:

C, CH, P, Z1

Example part no:

S445-31C = Stainless Steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

Metric dual seat fittings will seal with either concave or convex metric fittings.

S770



Straight male convex seat

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|------------|-----|------|
| S770-03Z1 | -03 | M10 x 1,00 | Z1 | Ford |

S771



Straight male convex seat w/locating flat

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|------------|-----|------|
| S771-03Z1 | -03 | M10 x 1,00 | Z1 | Ford |

S772



Straight male concave seat

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|------------|-----|------|
| S772-03Z1 | -03 | M10 x 1,00 | Z1 | Ford |

S446EX



Straight male bulkhead convex seat

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|------------|-----|-------------|
| S446-31EXC | -03 | M10 x 1,00 | C | VW Golf/BMW |
| S446-31EXZ1 | -03 | M10 x 1,00 | Z1 | VW Golf/BMW |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

S323

Straight male concave seat

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|----------|-----|------|
| S323-03Z1 | -03 | 1/8" BSP | Z1 | - |

S321

Straight female BSP

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|----------|-----|-------------|
| S321-03SMZ1 | -03 | 1/8" BSP | Z1 | Flat seat |
| S321-03Z1 | -03 | 1/8" BSP | Z1 | Convex seat |

S332

90° swept tube female BSP

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|----------|-----|------|
| S332-03Z1 | -03 | 1/8" BSP | Z1 | - |

S816

Straight male NPT

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|----------|-----|------|
| S816-03B | -03 | NPT 1/8" | B | - |

600 series BSP/NPT crimp fittings (AN-03)

The following 600 series BSP/NPT crimp fittings are compatible with 600 & 700K series AN-03 bore size.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake & Clutch

Compatible hose:

600 series (AN-03)

700K series (AN-03)

Material:

B, C, P, Z1

Example part no:

S323-03Z1 = Silver Plated Carbon Steel

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.



All crimped hose assemblies must be assembled by trained Goodridge personnel. Please contact Goodridge directly or find an approved Goodridge G-Tech centre at www.goodridge.com/distributors

600 series crimp T fittings (AN-03)

The following Goodridge 600 series T piece crimp fittings are compatible with 600 & 700K series AN-03 bore sizes.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake, Clutch & Hydraulic

Compatible hose:

600 series (AN-03)

700 series (AN-03)

Material:

C, Z1

Example part no:

S5135-03Z1 = Silver Plated

Carbon Steel

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

S5132



Tee with locating lug

| Part No. | Spur | On the run | Mat | Note |
|--------------|------|------------|-----|------|
| S5132-03-03C | -03 | 3/8 x 24 | C | - |

S5135



3 way tee

| Part No. | Spur | On the run | Mat | Note |
|------------|------|------------|-----|----------|
| S5135-03C | -03 | -03 | C | - |
| S5135-03SC | -03 | -03 | C | Slimline |
| S5135-03Z1 | -03 | -03 | Z1 | - |

S5136



3 way tee with locating lug

| Part No. | Spur | On the run | Mat | Note |
|------------|------|------------|-----|--------------------------|
| S5136-03C | -03 | -03 | C | - |
| S5136-03SC | -03 | -03 | C | Slimline - lug 6mm thick |
| S5136-03Z1 | -03 | -03 | Z1 | Lug 16mm thick |

S5139



90° compact elbow

| Part No. | Spur | On the run | Mat | Note |
|------------|------|------------|-----|------|
| S5139-03SC | -03 | -03 | C | - |

S5236



90° block

| Part No. | Spur | On the run | Mat | Note |
|------------|------|------------|-----|------|
| S5236-03Z1 | -03 | -03 | Z1 | - |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

S5091**Banjo**

| Part No. | To suit hose | Hole size | Mat | Note |
|---------------|--------------|-----------------|-----|------------|
| S5091-02-03C | -02 | 3/8" (10 mm) | C | - |
| S5091-03-04Z1 | -03 | 7/16" (11,2 mm) | Z1 | - |
| S5091-03-M12C | -03 | 12 mm | C | - |
| S5091-03C | -03 | 3/8" (10 mm) | C | - |
| S5091-03CH | -03 | 3/8" (10 mm) | CH | - |
| S5091-03SD | -03 | 3/8" (10 mm) | D | 8 mm thick |
| S5091-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |
| S5091-03CBK | -03 | 3/8" (10 mm) | C | Black |

S5092**Straight banjo extended neck**

| Part No. | To suit hose | Hole size | Mat | Note |
|----------------|--------------|-----------------|-----|-------|
| S5092-03-02C | -03 | 5/16" | C | - |
| S5092-03-04C | -03 | 7/16" (11,2 mm) | C | - |
| S5092-03-04CH | -03 | 7/16" (11,2 mm) | CH | - |
| S5092-03-04Z1 | -03 | 7/16" (11,2 mm) | Z1 | - |
| S5092-03-M12C | -03 | 12 mm | C | - |
| S5092-03-M12CH | -03 | 12 mm | CH | - |
| S5092-03C | -03 | 3/8" (10 mm) | C | - |
| S5092-03CH | -03 | 3/8" (10 mm) | CH | - |
| S5092-03D | -03 | 3/8" (10 mm) | D | - |
| S5092-03DBK | -03 | 3/8" (10 mm) | D | Black |
| S5092-03DRD | -03 | 3/8" (10 mm) | D | Red |
| S5092-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |
| S5092-03CBK | -03 | 3/8" (10 mm) | C | Black |

S5093L**20°/20° banjo compound left**

| Part No. | To suit hose | Hole size | Mat | Note |
|--------------|--------------|--------------|-----|-------|
| S5093L-03C | -03 | 3/8" (10 mm) | C | - |
| S5093L-03CBK | -03 | 3/8" (10 mm) | C | Black |
| S5093L-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |

S5093R**20°/20° Banjo - compound right**

| Part No. | To suit hose | Hole size | Mat | Note |
|--------------|--------------|--------------|-----|-------|
| S5093R-03C | -03 | 3/8" (10 mm) | C | - |
| S5093R-03CBK | -03 | 3/8" (10 mm) | C | Black |
| S5093R-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |

**600 series
crimp banjos
(AN-02 & AN-03)**

The following Goodridge 600 series banjo crimp fittings are compatible with 600 & 700K series AN-02 & AN-03 bore sizes. (700K AN-03 only)

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake, Clutch & Hydraulic

Compatible hose:

600 series (AN-02 & AN-03)

700 series (AN-03)

Material:

C, CBK, CH, D, P, Z1

Anodised Aluminium**Colour:**

BK (Black), D (Blue), RD (Red)

Example part no:

S5092-03DRD = Anodised

Aluminium Red

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

600 series crimp banjos (AN-02 & AN-03)

The following Goodridge 600 series banjo crimp fittings are compatible with 600 & 700K series AN-02 & AN-03 bore sizes. (700K AN-03 only)

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake, Clutch & Hydraulic

Compatible hose:

600 series (AN-02 & AN-03)
700 series (AN-03)

Material:

C, CBK, CH, D, P, Z1

Anodised Aluminium

Colour:

BK (Black), D (Blue), RD (Red)

Example part no:

S5092-03DRD = Anodised Aluminium Red

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

S5093



20° banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|----------------|--------------|-----------------|-----|-------|
| S5093-02-03C | -02 | 3/8" (10 mm) | C | - |
| S5093-03-02C | -03 | 5/16" | C | - |
| S5093-03-04C | -03 | 7/16" (11,2 mm) | C | - |
| S5093-03-04Z1 | -03 | 7/16" (11,2 mm) | Z1 | - |
| S5093-03-04CH | -03 | 7/16" (11,2 mm) | CH | - |
| S5093-03-M12C | -03 | 12 mm | C | - |
| S5093-03-M12CH | -03 | 12 mm | CH | - |
| S5093-03C | -03 | 3/8" (10 mm) | C | - |
| S5093-03CH | -03 | 3/8" (10 mm) | CH | - |
| S5093-03D | -03 | 3/8" (10 mm) | D | - |
| S5093-03DBK | -03 | 3/8" (10 mm) | D | Black |
| S5093-03DRD | -03 | 3/8" (10 mm) | D | Red |
| S5093-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |
| S5093-03CBK | -03 | 3/8" (10 mm) | C | Black |

S5097



20° side banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|--------------|--------------|--------------|-----|-------|
| S5097-03-02C | -03 | 5/16" | C | - |
| S5097-03C | -03 | 3/8" (10 mm) | C | - |
| S5097-03CH | -03 | 3/8" (10 mm) | CH | - |
| S5097-03D | -03 | 3/8" (10 mm) | D | - |
| S5097-03DBK | -03 | 3/8" (10 mm) | D | Black |
| S5097-03DRD | -03 | 3/8" (10 mm) | D | Red |
| S5097-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |
| S5097-03CBK | -03 | 3/8" (10 mm) | C | Black |

S5094



45° banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|--------------|--------------|--------------|-----|-------|
| S5094-03-02C | -03 | 5/16" | C | - |
| S5094-03C | -03 | 3/8" (10 mm) | C | - |
| S5094-03CH | -03 | 3/8" (10 mm) | CH | - |
| S5094-03D | -03 | 3/8" (10 mm) | D | - |
| S5094-03DBK | -03 | 3/8" (10 mm) | D | Black |
| S5094-03DRD | -03 | 3/8" (10 mm) | D | Red |
| S5094-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |
| S5094-03CBK | -03 | 3/8" (10 mm) | C | Black |

S5094L



45°/45° banjo compound left

| Part No. | To suit hose | Hole size | Mat | Note |
|--------------|--------------|--------------|-----|-------|
| S5094L-03C | -03 | 3/8" (10 mm) | C | - |
| S5094L-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |
| S5094L-03CBK | -03 | 3/8" (10 mm) | C | Black |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

S5094R

45°/45° banjo compound right

| Part No. | To suit hose | Hole size | Mat | Note |
|--------------|--------------|--------------|-----|-------|
| S5094R-03C | -03 | 3/8" (10 mm) | C | - |
| S5094R-03CBK | -03 | 3/8" (10 mm) | C | Black |
| S5094R-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |

S5070

70° banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|-------------|--------------|--------------|-----|-------|
| S5070-03C | -03 | 3/8" (10 mm) | C | - |
| S5070-03CBK | -03 | 3/8" (10 mm) | C | Black |
| S5070-03CH | -03 | 3/8" (10 mm) | CH | - |
| S5070-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |

S5099

90° side banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|---------------|--------------|--------------|-----|-------|
| S5099-03-02C | -03 | 5/16" | C | - |
| S5099-03-04CH | -03 | 7/16" | CH | - |
| S5099-03C | -03 | 3/8" (10 mm) | C | - |
| S5099-03CH | -03 | 3/8" (10 mm) | CH | - |
| S5099-03D | -03 | 3/8" (10 mm) | D | - |
| S5099-03DBK | -03 | 3/8" (10 mm) | D | Black |
| S5099-03DRD | -03 | 3/8" (10 mm) | D | Red |
| S5099-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |
| S5099-03CBK | -03 | 3/8" (10 mm) | Z1 | Black |

S5099S

90° banjo extended neck side bend

| Part No. | To suit hose | Hole size | Mat | Note |
|----------------|--------------|--------------|-----|---------------------------|
| S5099S-03C | -03 | 3/8" (10 mm) | C | - |
| S5099S-03CBK | -03 | 3/8" (10 mm) | C | Black |
| S5099S-03M6C | -03 | 6 mm | C | - |
| S5099S-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |
| S5099SL-03C | -03 | 3/8" (10 mm) | C | 45° L/hand thread |
| S5099SL-03CBK | -03 | 3/8" (10 mm) | C | 45° L/hand thread - black |
| S5099SL2-03C | -03 | 3/8" (10 mm) | C | 20° L/hand thread |
| S5099SL2-03CBK | -03 | 3/8" (10 mm) | C | 20° L/hand thread - black |
| S5099SR-03C | -03 | 3/8" (10 mm) | C | 45° R/hand thread |
| S5099SR-03CBK | -03 | 3/8" (10 mm) | C | 45° R/hand thread - black |

600 series crimp banjos (AN-02 & AN-03)

The following Goodridge 600 series banjo crimp fittings are compatible with 600 & 700K series AN-02 & AN-03 bore sizes. (700K AN-03 only)

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake, Clutch & Hydraulic

Compatible hose:

600 series (AN-02 & AN-03)

700 series (AN-03)

Material:

C, CBK, CH, D, P, Z1

Anodised Aluminium**Colour:**

BK (Black), D (Blue), RD (Red)

Example part no:

S5092-03DRD = Anodised Aluminium Red

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

600 series crimp banjos (AN-02 & AN-03)

The following Goodridge 600 series banjo crimp fittings are compatible with 600 & 700K series AN-02 & AN-03 bore sizes. (700K AN-03 only)

Fitting type:

Crimp

Applications:

Brake, Clutch & Hydraulic

Compatible hose:

*600 series (AN-02 & AN-03)
700 series (AN-03)*

Material:

C, CBK, CH, D, P, Z1

Anodised Aluminium

Colour:

BK (Black), D (Blue), RD (Red)

S5095



Banjo double tail

| Part No. | To suit hose | Hole size | Mat | Note |
|-------------|--------------|--------------|-----|-------|
| S5095-03C | -03 | 3/8" (10 mm) | C | - |
| S5095-03Z1 | -03 | 3/8" (10 mm) | Z1 | - |
| S5095-03CBK | -03 | 3/8" (10 mm) | C | Black |

S5098



Banjo twin tail extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|-----------|--------------|--------------|-----|------|
| S5098-03P | -03 | 3/8" (10 mm) | P | - |

600 Plug-in fittings (Made to order)

Fitting type:

Crimp

Fluid applications:

Brake, Clutch & Hydraulic

Compatible hose:

*600 series (AN-02 & AN-03)
700K series (AN-03)*



| Part No. | Mat | Fitting Angle | Tail size | Plug OD (mm) |
|----------|------|---------------|-----------|--------------|
| SGP601 | C, D | Straight | -02 | 8.7 |
| SGP646 | C, D | 45° | -03 | 8.8 |
| SGP691 | C, D | 90° | | 9.6 |

EXAMPLES:

| Part No. | Tail size | Plug OD (mm) |
|--------------------------------|-----------|--------------|
| SGP601 | -03 | 8.8 |
| Part No.: SGP601-03-8.8 | | |
| SGP646 | -02 | 9.6 |
| Part No.: SGP646-02-9.6 | | |

Other Plug-In OD's are available, please contact a Goodridge representative for more information. Collars must be purchased separately.

Crimp collars

Crimp collars for use with AN-02 & AN03 fittings

RC600



Crimp collar

| Part No. | To suit | Mat |
|--------------|---------|-----|
| RC600-02CMP | -02 | C |
| RC600-03CTUV | -03 | C |
| RC600-03TUV | -03 | B |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

BTL -300/310

Line locator with 17mm hex, one rounded corner

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------------|----------------|-----|-----------------------------------|
| BTL-300Z1 | Mazda, Mitsubishi | 600-03 | Z1 | 17 mm hex with one rounded corner |
| BTL-310Z1 | Mazda, Mitsubishi | 600-03 covered | Z1 | - |

BTL -322

Line locator

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------|----------------|-----|------|
| BTL-322Z1 | VW Golf MK5 | 600-03 covered | Z1 | - |

BTL -303/313

Single locating tab

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------|----------------|-----|------|
| BTL-303Z1 | Toyota | 600-03 | Z1 | - |
| BTL-313Z1 | Toyota | 600-03 covered | Z1 | - |

BTL -304/314

Line locator 19mm hex with silicone insert

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------|----------------|-----|------|
| BTL-304Z1 | Nissan, GM | 600-03 | Z1 | - |
| BTL-314Z1 | Nissan, GM | 600-03 covered | Z1 | - |

BTL -305/315

Line locator 19mm hex with silicone insert

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------|----------------|-----|------|
| BTL-305Z1 | Mazda | 600-03 | Z1 | - |
| BTL-315Z1 | Mazda | 600-03 covered | Z1 | - |

BTL -306/316

Line locator 19mm hex with silicone insert

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------|----------------|-----|------|
| BTL-306Z1 | Subaru | 600-03 | Z1 | - |
| BTL-316Z1 | Subaru | 600-03 covered | Z1 | - |

AN-03 line locators

Brake lines are a safety critical item and therefore, if being retro-fitted to a vehicle, must follow the correct routing; secured as per the original equipment manufacturers recommendations.

The following line locating brackets are OEM specific, to be used to locate 600 series AN-03 brake lines.

Please note: Some line locators require crimping - specialist knowledge and equipment is required to assemble crimp fittings.

Applications:

Brake lines

Compatible hose:

600 series (AN-03)

Notes:

Suitable for road use.

Material:

C, NY (Nylon), P, Z1

AN-03 line locators

Brake lines are a safety critical item and therefore, if being retro-fitted to a vehicle, must follow the correct routing; secured as per the original equipment manufacturers recommendations.

The following line locating brackets are OEM specific, to be used to locate 600 series AN-03 brake lines.

Please note: Some line locators require crimping - specialist knowledge and equipment is required to assemble crimp fittings.

BTL -307/317



Line locator 17 mm hex with opposite rounded corners

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------|----------------|-----|------|
| BTL-307Z1 | Toyota | 600-03 | Z1 | - |
| BTL-317Z1 | Toyota | 600-03 covered | Z1 | - |

BTL -308/318



Line locator 17mm hex with 10mm clip groove

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------|----------------|-----|------|
| BTL-308Z1 | Subaru | 600-03 | Z1 | - |
| BTL-318Z1 | Subaru | 600-03 covered | Z1 | - |

BLT -301/311



Single locating tab

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------------------|----------------|-------|------|
| BLT-301NY | Honda, Acura, Rover, MG | 600-03 | Nylon | - |
| BLT-311NY | Honda, Acura, Rover, MG | 600-03 covered | Nylon | - |

BLT -302/312



Double locating tab

| Part No. | Application | To suit | Mat | Note |
|-----------|-------------------------|----------------|-------|------|
| BLT-302NY | Honda, Acura, Rover, MG | 600-03 | Nylon | - |
| BLT-312NY | Honda, Acura, Rover, MG | 600-03 covered | Nylon | - |

Applications:

Brake lines

Compatible hose:

600 series (AN-03)

Notes:

Suitable for road use.

Material:

C, NY (Nylon), P, Z1



Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

775

Single banjo bolt JIC

| Part No. | Thread | Mat | Note |
|-------------|-----------|-----|------------------------|
| 775-02C | 5/16 x 24 | C | - |
| 775-03-02Z1 | 5/16 x 24 | Z1 | For banjo -03 |
| 775-03C | 3/8 x 24 | C | - |
| 775-03CBK | 3/8 x 24 | C | Black |
| 775-03CH | 3/8 x 24 | CH | - |
| 775-03D | 3/8 x 24 | D | Red |
| 775-03DBK | 3/8 x 24 | D | Black |
| 775-03LC | 3/8 x 24 | C | Long (25 mm under hex) |
| 775-03LCH | 3/8 x 24 | CH | Long (25 mm under hex) |
| 775-03LZ1 | 3/8 x 24 | Z1 | Long (25 mm under hex) |
| 775-03Z1 | 3/8 x 24 | Z1 | - |

992

Single banjo bolt metric

| Part No. | Thread | Mat | Note |
|---------------|------------|-----|---------------------------------|
| 992-02-21C | M8 x 1,00 | C | -02 hole |
| 992-02-22C | M8 x 1,25 | C | -02 hole |
| 992-03-21C | M8 x 1,00 | C | -03 hole |
| 992-03-22C | M8 x 1,25 | C | -03 hole |
| 992-03-31C | M10 x 1,00 | C | -03 hole |
| 992-03-31CH | M10 x 1,00 | CH | -03 hole |
| 992-03-31D | M10 x 1,00 | D | -03 hole - red |
| 992-03-31DBK | M10 x 1,00 | D | -03 hole - black |
| 992-03-31DBU | M10 x 1,00 | D | -03 hole - blue |
| 992-03-31LC | M10 x 1,00 | C | Long (25 mm under hex) |
| 992-03-31LCH | M10 x 1,00 | CH | Long (25 mm under hex) |
| 992-03-31LZ1 | M10 x 1,00 | Z1 | Long (25 mm under hex) |
| 992-03-31SC | M10 x 1,00 | C | Short (18 mm under hex) |
| 992-03-31SCBK | M10 x 1,00 | C | Short (18 mm under hex) - black |
| 992-03-31SD | M10 x 1,00 | D | Short (18 mm under hex) - red |
| 992-03-31SDBK | M10 x 1,00 | D | Short (18 mm under hex) - black |
| 992-03-31SDBU | M10 x 1,00 | D | Short (18 mm under hex) - blue |
| 992-03-31SZ1 | M10 x 1,00 | Z1 | Short (18 mm under hex) |
| 992-03-31Z1 | M10 x 1,00 | Z1 | -03 hole |
| 992-03-32C | M10 x 1,25 | C | -03 hole |
| 992-03-32CBK | M10 x 1,25 | C | -03 hole |
| 992-03-32CH | M10 x 1,25 | CH | -03 hole |
| 992-03-32D | M10 x 1,25 | D | -03 hole - red |
| 992-03-32DBK | M10 x 1,25 | D | -03 hole - black |
| 992-03-32DBU | M10 x 1,25 | D | -03 hole - blue |
| 992-03-32LCH | M10 x 1,25 | CH | Long (25 mm under hex) |
| 992-03-32LZ1 | M10 x 1,25 | Z1 | Long (25 mm under hex) |
| 992-03-32Z1 | M10 x 1,25 | Z1 | -03 hole |
| 992-03-35C | M10 x 1,50 | C | -03 hole |
| 992-03-35LZ1 | M10 x 1,50 | Z1 | Long (25 mm under hex) |
| 992-03-35Z1 | M10 x 1,50 | Z1 | -03 hole |

Banjo bolts

Available in UNF, Metric and BSP type thread fittings; single and double variations.

In addition, Goodridge manufactures a range of brake light switch banjo bolts, available in a range of materials, colours, lengths and threads.

Copper crush washers can be found in the Ancillary (13) section

Fitting type:

Banjo Bolt

Applications:

Brake / Clutch lines

Compatible fitting:

600 series

Material:

Stainless Steel, Chrome plated, Aluminium, Zinc plated, Silver plated carbon steel

Anodised Aluminium**Colour:**

BK (Black), D (Blue), RD (Red)

Example Part No:

992-03-31DBU = Anodised Aluminium Blue

Notes:

Long bolts are for use with 5091, 5095, 5096.

'Under hex' length:

Short: 18mm (S)

Single: 20mm

Single Long: 25mm (L)

Double: 30mm

Double Long: 40mm (L)

Banjo bolts

Available in UNF, Metric and BSP type thread fittings; single and double variations.

In addition, Goodridge manufactures a range of brake light switch banjo bolts, available in a range of materials, colours, lengths and threads.

Copper crush washers can be found in the Ancillary section 13

Fitting type:

Banjo Bolt

Applications:

Brake / Clutch lines

Compatible fitting:

600 series

Material:

Stainless Steel, Chrome plated, Aluminium, Zinc plated, Silver plated carbon steel

Anodised Aluminium

Colour:

BK (Black), D (Blue), RD (Red)

Example Part No:

992-03-31DBU = Anodised Aluminium Blue

Notes:

Long bolts are for use with 5091, 5095, 5096.

'Under hex' length:

Short: 18mm (S)

Single: 20mm

Single Long: 25mm (L)

Double: 30mm

Double Long: 40mm (L)

1012



Single banjo bolt BSP

| Part No. | Thread | Mat | Note |
|----------|----------|-----|------|
| 1012-03P | BSP 1/8" | P | - |

993



Double banjo bolt metric

| Part No. | Thread | Mat | Note |
|---------------|------------|-----|------------------------------|
| 993-03-31C | M10 x 1,00 | C | - |
| 993-03-31CH | M10 x 1,00 | CH | - |
| 993-03-31D | M10 x 1,00 | D | Red |
| 993-03-31DBK | M10 x 1,00 | D | Black |
| 993-03-31DBU | M10 x 1,00 | D | Blue |
| 993-03-31LZ1 | M10 x 1,00 | Z1 | Long (40 mm under hex) |
| 993-03-31SC | M10 x 1,00 | C | Short (28 mm under hex) |
| 993-03-31SCBK | M10 x 1,00 | C | Short black(28 mm under hex) |
| 993-03-31SZ1 | M10 x 1,00 | Z1 | Short (28 mm under hex) |
| 993-03-31Z1 | M10 x 1,00 | Z1 | - |
| 993-03-32C | M10 x 1,25 | C | - |
| 993-03-32CBK | M10 x 1,25 | C | Black |
| 993-03-32CH | M10 x 1,25 | CH | - |
| 993-03-32D | M10 x 1,25 | D | Red |
| 993-03-32DBK | M10 x 1,25 | D | Black |
| 993-03-32DBU | M10 x 1,25 | D | Blue |
| 993-03-32Z1 | M10 x 1,25 | Z1 | - |

773



Double banjo bolt JIC

| Part No. | Thread | Mat | Note |
|-----------|----------|-----|------------------------|
| 773-03C | 3/8 x 24 | C | - |
| 773-03CBK | 3/8 x 24 | C | Black |
| 773-03CH | 3/8 x 24 | CH | - |
| 773-03D | 3/8 x 24 | D | Red |
| 773-03LCH | 3/8 x 24 | CH | Long (40 mm under hex) |
| 773-03LZ1 | 3/8 x 24 | Z1 | Long (40 mm under hex) |
| 773-03Z1 | 3/8 x 24 | Z1 | - |

1013



Double banjo bolt BSP

| Part No. | Thread | Mat | Note |
|----------|----------|-----|------|
| 1013-03P | BSP 1/8" | P | - |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

BL775

Single brakelight banjo bolt UNF

| Part No. | Thread | Mat | Note |
|------------|----------|-----|-------|
| BL775-03C | 3/8 x 24 | C | - |
| BL775-03SC | 3/8 x 24 | C | Short |

BL992

Single brakelight banjo bolt metric

| Part No. | Thread | Mat | Note |
|------------|------------|-----|---------------------------|
| BL992-31C | M10 x 1,00 | C | - |
| BL992-31SC | M10 x 1,00 | C | Short (18,5 mm under hex) |
| BL992-32C | M10 x 1,25 | C | - |

BL993

Double brakelight banjo bolt metric

| Part No. | Thread | Mat | Note |
|------------|------------|-----|-------------------------|
| BL993-31C | M10 x 1,00 | C | - |
| BL993-31SC | M10 x 1,00 | C | Short (28 mm under hex) |
| BL993-32C | M10 x 1,25 | C | - |

775BN

Single banjo bolt with bleed nipple JIC

| Part No. | Thread | Mat | Note |
|------------|----------|-----|------|
| 775-03BNC | 3/8 x 24 | C | - |
| 775-03BNZ1 | 3/8 x 24 | Z1 | - |

992BN

Single banjo bolt with bleed nipple metric

| Part No. | Thread | Mat | Note |
|--------------|------------|-----|---------------|
| 992-03-21BNC | M8 x 1,00 | C | For banjo -03 |
| 992-31BNC | M10 x 1,00 | C | - |
| 992-31BNCH | M10 x 1,00 | CH | - |
| 992-31BNSC | M10 x 1,00 | C | Short |
| 992-31BNZ1 | M10 x 1,00 | Z1 | - |
| 992-32BNC | M10 x 1,25 | C | - |
| 992-32BNZ1 | M10 x 1,25 | Z1 | - |

Banjo bolts

Available in UNF, Metric and BSP type thread fittings; single and double variations.

In addition, Goodridge manufactures a range of brake light switch banjo bolts, available in a range of materials, colours, lengths and threads.

Copper crush washers can be found in the Ancillary section 13

Fitting type:

Banjo Bolt

Applications:

Brake / Clutch lines

Compatible fitting:

600 series

Material:

Stainless Steel, Chrome plated, Aluminium, Zinc plated, Silver plated carbon steel

Anodised Aluminium**Colour:**

BK (Black), D (Blue), RD (Red)

Example Part No:

992-03-31DBU = Anodised Aluminium Blue

Notes:

Long bolts are for use with 5091, 5095, 5096.

'Under hex' length:

Short: 18mm (S)

Single: 20mm

Single Long: 25mm (L)

Double: 30mm

Double Long: 40mm (L)

Banjo bolts

Available in UNF, Metric and BSP type thread fittings; single and double variations.

In addition, Goodridge manufactures a range of brake light switch banjo bolts, available in a range of materials, colours, lengths and threads.

Fitting type:

Banjo Bolt

Applications:

Brake / Clutch lines

Compatible fitting:

600 series

Material:

Stainless Steel, Chrome plated, Aluminium, Zinc plated, Silver plated carbon steel

Anodised Aluminium

Colour:

BK (Black), D (Blue), RD (Red)

Bleed nipple banjo bolts & nipples

Goodridge developed bleed nipple banjo bolts in response to concerns about the length of time required to bleed hydraulic systems. Air can now be bled from the master cylinder end of the system.

In addition, Goodridge manufacture a range of bleed nipples, including speed bleeders.

Fitting type:

Banjo Bolt

Applications:

Brake / Clutch lines

Compatible hose:

600 series

Material:

Stainless Steel, Chrome plated, Zinc plated, Silver plated carbon steel

773BN



Double banjo bolt with bleed nipple UNF

| Part No. | Thread | Mat | Note |
|-----------|----------|-----|------|
| 773-03BNC | 3/8 x 24 | C | - |

993BN



Bleed nipple double banjo bolt metric

| Part No. | Thread | Mat | Note |
|------------|------------|-----|-------------------------|
| 993-31BNC | M10 x 1,00 | C | - |
| 993-31BNSC | M10 x 1,00 | C | Short (28 mm under hex) |
| 993-31BNZ1 | M10 x 1,00 | Z1 | - |
| 993-32BNC | M10 x 1,25 | C | - |
| 993-32BNZ1 | M10 x 1,25 | Z1 | - |

BN506



Bleed nipple UNF

| Part No. | Thread | Mat |
|----------|----------|-----|
| BN506C | 3/8 x 24 | C |
| BN506P | 3/8 x 24 | P |

BN507



Bleed nipple metric

| Part No. | Thread | Mat |
|----------|-----------|-----|
| BN507C | M7 x 1,00 | C |
| BN507P | M7 x 1,00 | P |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

BN508

Bleed nipple metric

| Part No. | Thread | Mat |
|----------|-----------|-----|
| BN508C | M8 x 1,25 | C |

BN510

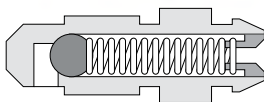
Bleed nipple metric

| Part No. | Thread | Mat |
|----------|------------|-----|
| BN510C | M10 x 1,00 | C |
| BN510P | M10 x 1,00 | P |

BN704

Bleed nipple UNF

| Part No. | Thread | Mat |
|----------|----------|-----|
| BN704C | 1/4 x 28 | C |
| BN704P | 1/4 x 28 | P |

BNSB

Speed bleeder

| Part No. | Thread | Mat |
|-------------|-------------------|-----|
| BN506PSB | 3/8 x 24 | P |
| BN506PSB-HD | 3/8 x 24 Harley D | P |
| BN507PSB | M7 x 1,00 | P |
| BN508PSB | M8 x 1,25 | P |
| BN510PSB | M10 x 1,00 | P |
| BN512PSB | M10 x 1,25 | P |
| BN561PSB | M6 x 1,00 | P |
| BN704PSB | 1/4 x 28 | P |

BN-CAP

Bleed nipple cap

| Part No. | Thread | Mat |
|----------|--------|--------|
| BN-CAP | - | Rubber |

Bleed nipple banjo bolts & nipples

Goodridge developed bleed nipple banjo bolts in response to concerns about the length of time required to bleed hydraulic systems. Air can now be bled from the master cylinder end of the system.

In addition, Goodridge manufacture a range of bleed nipples, including speed bleeders.

Fitting type:

Banjo Bolt

Applications:

Brake / Clutch lines

Compatible hose:

600 series

Material:

Stainless Steel, Chrome plated, Zinc plated, Silver plated carbon steel

Special application block adaptors

Goodridge manufacture a range of adaptors suitable for brake systems.

Block adaptors can be bought separately to ensure the system is routed correctly.

Fitting type:

Block adaptor

Applications:

Brake systems

Compatible hose:

600 series

Material:

Brass, Stainless Steel, Zinc plated, Silver plated carbon steel

G105



Banjo adaptor block 90°

| Part No. | Note | Thread | Hole Size | Mat |
|-----------|----------------------|--------------------|-----------|-----|
| G105-31Z1 | Mustang/ Cherokee | M10 x 1,00 inv. | - | Z1 |

G105A



Banjo adaptor block 90° with 7/16 locating hole

| Part No. | Note | Thread | Hole Size | Mat |
|----------|----------------------|--------------------|-----------|-----|
| G105-31A | Mustang/ Cherokee | M10 x 1,00 inv. | - | B |
| G105A | Mustang/ Cherokee | 3/8 x 24 inv. | - | B |

G106A



Angled banjo adaptor block

| Part No. | Note | Thread | Hole Size | Mat |
|----------|------|--------|-----------|-----|
| G106A | Ford | - | 3/8 | B |

G114



Mazda MX5 rear brake adaptor block

| Part No. | Note | Thread | Hole Size | Mat |
|----------|-------|----------------------------------|-----------|-----|
| G114 | Mazda | M10 x 1,00 female -03 tail | - | P |

G115



Rear tee block GM

| Part No. | Note | Thread | Hole Size | Mat |
|----------|-----------|--|-----------|-----|
| G115 | Chevrolet | M10 x 1,00 femelle - 3/8 x 24 male | - | B |

G117



Adaptor block metric 90° Honda

| Part No. | Note | Thread | Hole Size | Mat |
|----------|-------|------------|-----------|-----|
| G117Z1 | Honda | M10 x 1,00 | M8 x 1,25 | Z1 |

SP-202



90° fitting motorcycle convex

| Part No. | Note | Thread | Hole Size | Mat |
|----------|-------------------|------------|-----------|-----|
| SP-202 | Honda/ BMW/CBS | M10 x 1,00 | - | C |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

SP-203



Tee fitting motorcycle convex

| Part No. | Note | Thread | Hole Size | Mat |
|----------|-------|------------|-----------|-----|
| SP-203 | Honda | M10 x 1,00 | - | C |

SP-225



Tee fitting motorcycle concave

| Part No. | Note | Thread | Hole Size | Mat |
|----------|------|----------------------------|-----------|-----|
| SP-225 | BMW | -03 tail con M10 x 1,00 | - | C |

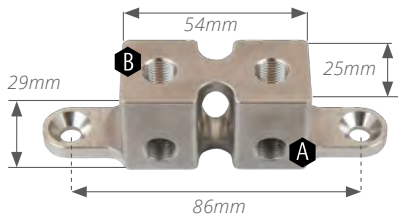
SP-241



Straight fitting motorcycle convex

| Part No. | Note | Thread | Hole Size | Mat |
|----------|-------------------|------------|-------------------|-----|
| SP-241 | Motorcycle ABS | M10 x 1,00 | M6 (no thread) | C |
| SP-241T | Motorcycle ABS | M10 x 1,00 | M6 x 1,00 | C |

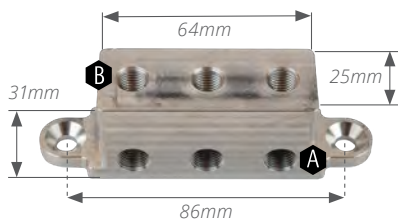
GBPSM2



Brake pressure manifold

| Part No. | Note | Thread A | Thread B | Mat |
|----------|------------------------------|------------|------------|-----|
| GBPSM2 | To suit Bosch M10 Sensors | M10 x 1,00 | M10 x 1,00 | C |

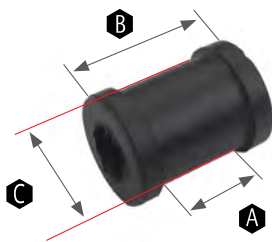
GBPSM3



Brake pressure manifold

| Part No. | Note | Thread A | Thread B | Mat |
|----------|----------------------------|------------|-----------------|-----|
| GBPSM3 | To suit -03 JIC Sensors | M10 x 1,00 | 3/8 x 24 UNF | C |

GR



Brake hose grommet

| Part No. | Note | Mat |
|--------------|----------------|--------|
| SPHA0280-002 | To suit 600-03 | Rubber |
| GR1 | To suit 600-03 | Rubber |
| GR2 | To suit 600-03 | Rubber |
| GR3 | To suit 600-03 | Rubber |

| Part No. | A mm | B mm | OD mm | ID mm | C mm |
|--------------|---------|---------|----------|----------|---------|
| SPHA0280-002 | 2.8 | 16.6 | 25 | 7.1 | 17.8 |
| GR1 | 2.5 | 10 | 20 | 7.1 | 14 |
| GR2 | 2.54 | 9.25 | 24 | 6.35 | 12.7 |
| GR3 | 15 | 21.5 | 15.7 | 8 | 14 |

**Special application
block adaptors**

Goodridge manufacture a range of adaptors suitable for brake systems.

Block adaptors can be bought separately to ensure the system is routed correctly.

Fitting type:
Block adaptor

Applications:
Brake systems

Compatible hose:
600 series

Material:
Brass, Stainless Steel, Zinc plated,
Silver plated carbon steel

Fluid applications:

Fuel, Oil, Water, Dampers

Construction:

Stainless steel braid with PTFE liner
(Optional carbon look or clear covering available)

Compatible fittings:

600MP reusable / 600MP crimp

Please note:

Other hose sizes are available with coatings by special request. Anti-static used in sizes dash 4 upwards.

600MP HOSE SERIES (MEDIUM PRESSURE)

600 series Medium Pressure AN-04, AN-05, AN-06 & AN-08 bore size hoses are designed for fuel, oil, water and damper reservoir systems. The 600 series hose strongly resists expansion under high pressure and temperature.

The Stainless Steel braid offers abrasion, corrosion and fire resistance, which also provides heat protection to up to 260°C.



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Cover Material | Outer Diameter mm / inches | Cover OD mm / inches | PTFE Wall mm / inches | Cover Wall mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|----------|-----------|---------------------------|----------------|----------------------------|----------------------|-----------------------|------------------------|-------------------------|----------------------|---------------------|--------------------------|---------------------|
| *600-04 | -04 | 5,0 (0,197) | None | 7,65 (0,301) | - | 0,76 (0,003) | - | 280 (4061) | 840 (12183) | 0,075 (0,05) | 50 (1,97) | -70/+260 (-94/+500) |
| 600-04BK | -04 | 5,0 (0,197) | Black | 7,65 (0,301) | 8,65 (0,340) | 0,76 (0,003) | 0,5 (0,019) | 280 (4061) | 840 (12183) | 0,098 (0,066) | 50 (1,97) | -10/+60 (+14/+140) |
| 600-04CB | -04 | 5,0 (0,197) | Carboline | 7,65 (0,301) | 8,65 (0,340) | 0,76 (0,003) | 0,5 (0,019) | 280 (4061) | 840 (12183) | 0,098 (0,066) | 50 (1,97) | -10/+60 (+14/+140) |
| 600-04CL | -04 | 5,0 (0,197) | Clear | 7,65 (0,301) | 8,65 (0,340) | 0,76 (0,003) | 0,5 (0,019) | 280 (4061) | 840 (12183) | 0,098 (0,066) | 50 (1,97) | -10/+60 (+14/+140) |
| *600-05 | -05 | 6,3 (0,248) | None | 8,9 (0,350) | - | 0,76 (0,003) | - | 230 (3335) | 690 (10007) | 0,105 (0,071) | 70 (2,756) | -70/+260 (-94/+500) |
| 600-05CB | -05 | 6,3 (0,248) | Carboline | 8,9 (0,350) | 9,9 (0,354) | 0,76 (0,003) | 0,5 (0,019) | 230 (3335) | 690 (10007) | 0,105 (0,071) | 70 (2,756) | -10/+60 (+14/+140) |
| 600-05CL | -05 | 6,3 (0,248) | Clear | 8,9 (0,350) | 9,9 (0,354) | 0,76 (0,003) | 0,5 (0,019) | 230 (3335) | 690 (10007) | 0,105 (0,071) | 70 (2,756) | -10/+60 (+14/+140) |
| *600-06 | -06 | 8,2 (0,323) | None | 11,15 (0,439) | - | 0,76 (0,003) | - | 210 (3045) | 630 (9137) | 0,135 (0,091) | 100 (3,937) | -70/+260 (-94/+500) |
| *600-08 | -08 | 10,6 (0,417) | None | 12,75 (0,502) | - | 0,76 (0,003) | - | 180 (2610) | 540 (7832) | 0,149 (0,100) | 130 (5,118) | -70/+260 (-94/+500) |

*Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 260°C.

Fluid applications:

Brake, Clutch, Pressure Gauge, Fuel Injection, Fire extinguisher, Nitrous & Hydraulics.

Construction:

Aramid Fibre outer braid with PTFE liner

Compatible fittings:

600MP crimp (special equipment required)

700K HOSE SERIES (AN-04 MEDIUM PRESSURE)

The 700 series hose range is a PTFE lined light weight equivalent to the 600 series, wrapped in an Aramid fibre braid. Motorsport use only. Applications include brake, clutch, fuel injection, fire extinguisher, nitrous, pressure gauge & hydraulics.

The PTFE liner is braided in light weight Aramid fibre, providing consistent brake and clutch pedal/lever feel (When used for brake/clutch applications), whilst eliminating any sponginess that may be found with the equivalent rubber hose.



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Cover Material | Outer Diameter mm / inches | Cover OD mm / inches | PTFE Wall mm / inches | Cover Wall mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|-----------|-----------|---------------------------|----------------|----------------------------|----------------------|-----------------------|------------------------|-------------------------|----------------------|---------------------|--------------------------|--------------------|
| 700K-04BK | -04 | 5,0 (0,197) | Black PVC | 9,2 (0,363) | 9,6 (0,378) | 0,76 (0,030) | 0,9 (0,035) | 150 (2175) | 450 (6526) | 0,074 (0,05) | 50 (1,968) | -20/+85 (-4/+185) |

Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 185°C.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

6001

Straight female.

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|-----------|-----|----------|
| 6001-04C | -04 | 7/16 x 20 | C | - |
| 6001-04D | -04 | 7/16 x 20 | D | red/blue |
| 6001-04P | -04 | 7/16 x 20 | P | - |
| 6001-06D | -06 | 9/16 x 18 | D | red/blue |
| 6001-06P | -06 | 9/16 x 18 | P | - |
| 6001-08D | -08 | 3/4 x 16 | D | red/blue |

6045

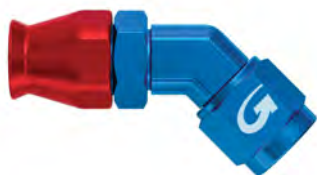
45° forged female.

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|-----------|-----|----------|
| 6045-04D | -04 | 7/16 x 20 | D | red/blue |
| 6045-06D | -06 | 9/16 x 18 | D | red/blue |
| 6045-08D | -08 | 3/4 x 16 | D | red/blue |

6046

45° swept tube female.

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|-----------|-----|----------|
| 6046-04C | -04 | 7/16 x 20 | C | - |
| 6046-04D | -04 | 7/16 x 20 | D | red/blue |
| 6046-04P | -04 | 7/16 x 20 | P | - |
| 6046-06D | -06 | 9/16 x 18 | D | red/blue |
| 6046-08D | -08 | 3/4 x 16 | D | red/blue |

6645

45° forged female double swivel.

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|-----------|-----|----------|
| 6645-04C | -04 | 7/16 x 20 | C | - |
| 6645-04D | -04 | 7/16 x 20 | D | red/blue |
| 6645-06D | -06 | 9/16 x 18 | D | red/blue |

6091

90° swept tube female.

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|-----------|-----|----------|
| 6091-04C | -04 | 7/16 x 20 | C | - |
| 6091-04D | -04 | 7/16 x 20 | D | red/blue |
| 6091-04P | -04 | 7/16 x 20 | P | - |
| 6091-06D | -06 | 9/16 x 18 | D | red/blue |
| 6091-06P | -06 | 9/16 x 18 | P | - |
| 6091-08D | -08 | 3/4 x 16 | D | red/blue |

600 MP JIC/UNF

Reusable fittings for 600MP series hose (AN-04, AN-06 & AN-08)

600MP series JIC/UNF reusable fitting range is compatible with 600 series AN-04, AN-06 & AN-08 bore sizes.

The body seals to the hose using an olive and socket. Olives and sockets are available to purchase separately.

**Fitting type:**

Reusable

Applications:

Fuel, Oil, Water & Dampers

Compatible hose:

600 series MP

Material:

C, CH, D, P

Colours:

D= Red & Blue

C, CH, P = Standard finish

600 MP JIC/UNF

Reusable fittings for 600MP series hose (AN-04, AN-06 & AN-08)

600MP series JIC/UNF reusable fitting range is compatible with 600 series AN-04, AN-06 & AN-08 bore sizes.

The body seals to the hose using an olive and socket. Olives and sockets are available to purchase separately.



Fitting type:

Reusable

Applications:

Fuel, Oil, Water & Dampers

Compatible hose:

600 series MP

Material:

C, CH, D, P

Colours:

D= Red & Blue

C, CH, P = Standard finish

6090



90° forged female.

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|-----------|-----|----------|
| 6090-04D | -04 | 7/16 x 20 | D | red/blue |
| 6090-06D | -06 | 9/16 x 18 | D | red/blue |
| 6090-08D | -08 | 3/4 x 16 | D | red/blue |

6690



90° forged female double swivel.

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|-----------|-----|----------|
| 6690-04C | -04 | 7/16 x 20 | C | - |
| 6690-04D | -04 | 7/16 x 20 | D | red/blue |
| 6690-06D | -06 | 9/16 x 18 | D | red/blue |

441



Straight male convex

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|-----------|-----|------|
| 441-04C | -04 | 7/16 x 20 | C | - |

443



Straight male bulkhead

| Part No. | To suit hose | JIC/UNF | Mat | Note |
|----------|--------------|-----------|-----|------|
| 443-04P | -04 | 7/16 x 20 | P | - |

704



Female bulkhead convex

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|-----------|-----|----------------------------|
| 704-04P | -04 | 7/16 x 20 | P | Use locknut part no 2k8686 |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

321MP

Straight female

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|----------|-----|------|
| 321-04P | -04 | BSP 1/4" | P | - |

332

90°swept tube female

| Part No. | To suit hose | Thread | Mat | Note |
|----------|--------------|----------|-----|------|
| 332-04P | -04 | BSP 1/4" | P | - |

600 MP BSP

Reusable fittings for 600MP series hose (AN-04)

600MP series medium pressure BSP reusable fitting range are compatible with 600MP series AN-04 bore size hose.

The body seals to the hose using an olive and socket. Olives and sockets are available to purchase separately.

**Fitting type:**

Reusable

Applications:

Brake & Clutch

Compatible hose:

600MP series (AN-04)

Material:

P, Z1

Example part no:

321-04P = Zinc plated carbon steel

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.



Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

600MP Banjo

Reusable fittings (AN-04, AN-06 & AN-08)

600 MP series reusable banjo fitting range is compatible with 600 series 600-04MP, 600-06MP & 600-08MP hoses.

The body seals to the hose using an olive and socket.

Olives and sockets are available to buy separately.

Fitting type:

Reusable

Applications:

Brake, Clutch, Fuel, Oil, Water & Dampers

Compatible hose:

600MP

Material:

CH, C, D, P, Z1

Colour:

D = Aluminium

(Red & Blue in AN-06 & AN-08)

Please check part description for AN-02 & AN-03 fitting colour.

Example part no:

5093-04-03P = Zinc plated carbon steel

Notes:

Suitable for motorsport/off road use only

Replacement Olives and Sockets for 600MP AN-04, AN-06 & AN-08 reusable fittings

AN-04, AN-06 & AN-08 medium pressure reusable fittings.

Compatible fitting:

600MP reusable (AN-04, AN-06 & AN-08)

5091



Straight banjo.

| Part No. | To suit hose | Hole size | Mat | Note |
|--------------|--------------|-----------------|-----|----------|
| 5091-04-03P | -04 | 3/8" (10 mm) | P | - |
| 5091-04-M12P | -04 | M12 | P | - |
| 5091-04D | -04 | 7/16" (11,2 mm) | D | - |
| 5091-04P | -04 | 7/16" (11,2 mm) | P | - |
| 5091-06D | -06 | -06 (14 mm) | D | red/blue |
| 5091-08D | -08 | -08 (22 mm) | D | red/blue |

5092



Straight banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|-------------|--------------|--------------|-----|------|
| 5092-04-03P | -04 | 3/8" (10 mm) | P | - |

5093



20° banjo extended neck

| Part No. | To suit hose | Hole size | Mat | Note |
|-------------|--------------|--------------|-----|------|
| 5093-04-03P | -04 | 3/8" (10 mm) | P | - |

OLIVE 1205



Replacement olive for 600MP hose

| Part No. | Mat | To suit |
|----------|-----|---------|
| 1205-04B | B | -04 |
| 1205-04D | D | -04 |
| 1205-06B | B | -06 |
| 1205-06D | D | -06 |
| 1205-08D | D | -08 |

SOCKET 1206



Replacement sockets for 600MP hose

| Part No. | Mat | To suit |
|----------|-----|---------|
| 1206-04P | P | -04 |
| 1206-06D | D | -06 |
| 1206-08D | D | -08 |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

S6001

Straight female

| Part No. | To suit hose | Thread | Mat | Note |
|----------------|--------------|-----------|-----|------|
| S6001-04CMP | -04 | 7/16 x 20 | C | - |
| S6001-04DMP | -04 | 7/16 x 20 | D | - |
| S6001-04Z1MP | -04 | 7/16 x 20 | Z1 | - |
| S6001-05-04CMP | -05 | 7/16x20 | C | - |
| S6001-06CMP | -06 | 9/16 x 18 | C | - |
| S6001-06DMP | -06 | 9/16 x 18 | D | - |
| S6001-08DMP | -08 | 3/4 x 16 | D | - |

S747

Straight Swage female

| Part No. | To suit hose | Thread | Mat | Note |
|-----------|--------------|-----------|-----|------|
| S747-44Z1 | -04 | 7/16 x 24 | Z1 | - |

S6046

45° swept tube female

| Part No. | To suit hose | Thread | Mat | Note |
|--------------|--------------|-----------|-----|------|
| S6046-04CMP | -04 | 7/16 x 20 | C | - |
| S6046-04Z1MP | -04 | 7/16 x 20 | Z1 | - |
| S6046-04DMP | -04 | 7/16 x 20 | D | - |
| S6046-06DMP | -06 | 9/16 x 18 | D | - |

S6045

45° forged female

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|-----------|-----|------|
| S6045-04CMP | -04 | 7/16 x 20 | C | - |
| S6045-04DMP | -04 | 7/16 x 20 | D | - |
| S6045-06DMP | -06 | 9/16 x 18 | D | - |

S6091

90° swept tube female concave seat

| Part No. | To suit hose | Thread | Mat | Note |
|--------------|--------------|-----------|-----|------|
| S6091-04CMP | -04 | 7/16 x 20 | C | - |
| S6091-04DMP | -04 | 7/16 x 20 | D | - |
| S6091-04Z1MP | -04 | 7/16 x 20 | Z1 | - |
| S6091-06DMP | -06 | 9/16 x 18 | D | - |

S6090

90° forged female

| Part No. | To suit hose | Thread | Mat | Note |
|-------------|--------------|-----------|-----|------|
| S6090-04CMP | -04 | 7/16 x 20 | D | - |
| S6090-04DMP | -04 | 7/16 x 20 | D | - |
| S6090-06DMP | -06 | 9/16 x 18 | D | - |
| S6090-08DMP | -08 | 3/4 x 16 | D | - |

600 MP JIC/UNF

Crimp fittings (AN-04, AN-06 & AN-08)

600 MP series JIC/UNF crimp fittings are compatible with 700K-04 and 600 medium pressure AN-04, AN-06 & AN-08 hose sizes.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:

Swage/Crimp

Applications:

Brake, Clutch, Fuel, Oil, Water & Methanol.

Compatible hose:

600 Medium Pressure (AN-04, AN-06 & AN-08)
700K series (AN-04)

Material:

C, CBK, CH, D, P, Z1

Example part no:

S6046-04-Z1MP = Silver plated carbon steel.

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

600 MP NPT Crimp fittings (AN-04)

600MP series BSP/NPT crimp fittings are compatible with 700K-04 and 600 medium pressure AN-04 size hose.

Fitting type:
Swage/Crimp

Applications:
Brake & Clutch

Compatible hose:
600 Medium Pressure (AN-04)
700K series (AN-04)

Notes:
Suitable for road use.

Please order crimp collars separately.

S816



Straight male NPT

| Part No. | To suit hose | Thread | Mat | Note |
|----------------|--------------|----------|-----|------|
| S816-04-03P2MP | -04 | NPT 1/8" | B | - |

600 MP Banjos Swage/crimp (AN-04 & AN-05)

600MP series swage/crimp banjos are compatible with 700K-04 and 600 medium pressure AN-04 & AN-05 size hose.

TUV and DOT certification has been achieved in all available 600 series crimp fitting materials.

Fitting type:
Swage/Crimp

Applications:
Brake, Clutch, Hydraulic & Dampers

Compatible hose:
600 Medium Pressure (AN-04 & AN-05)
700K series (AN-04)

Material:
C, Z1

Example part no:
S5091-04CMP = Stainless Steel

Notes:
Suitable for Motorsport and road use.

Please order crimp collars separately.

S5091



Straight banjo

| Part No. | To suit hose | Hole size | Mat | Note |
|-----------------|--------------|-----------------|-----|------|
| S5091-04-03C | -04 | 3/8" (10 mm) | C | - |
| S5091-04-03Z1 | -04 | 3/8" (10 mm) | Z1 | - |
| S5091-04-M12CMP | -04 | 12 mm | C | - |
| S5091-04-M12Z1 | -04 | 12 mm | Z1 | - |
| S5091-04Z1MP | -04 | 7/16" (11,2 mm) | Z1 | - |
| S5091-05-M10CMP | -05 | 10 mm | C | - |
| S5091-05-M12Z1 | -05 | 12 mm | Z1 | - |
| S5091-06-M12DMP | -06 | 12 mm | D | - |
| S5091-06-M14DMP | -06 | 14 mm | D | - |

S5092



Straight banjo extended neck

| Part No. | To suit hose | Thread | Mat | Note |
|--------------|--------------|----------|-----|------|
| S5092-04-03C | -04 | 3/8 x 24 | C | - |

S5092



Straight banjo with integral swivel

| Part No. | To suit hose | Thread | Mat | Note |
|-----------------|--------------|------------|-----|------|
| S5092-05-M10CSW | -05 | M10 x 1,0 | C | - |
| S5092-05-M12CSW | -05 | M12 x 1,50 | C | - |

For high pressure applications please contact Goodridge or your nearest G-Tech centre.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

1012

Single banjo bolt

| Part No. | Thread | Mat | Note |
|----------|----------|-----|------|
| 1012-04P | BSP 1/4" | P | - |

773

Double banjo bolt

| Part No. | Thread | Mat | Note |
|----------|-----------|-----|------|
| 773-44CH | 7/16 x 24 | CH | - |

BL775

Single brakelight banjo bolt UNF

| Part No. | Thread | Mat | Note |
|-----------|-----------|-----|-------|
| BL775-44C | 7/16 x 24 | C | Short |

RC600

Crimp collar

| Part No. | To suit | Mat |
|-------------|---------|-----|
| RC600-04CMP | -04 MP | C |
| RC600-05CMP | -05 MP | C |
| RC600-06CMP | -06 MP | C |
| RC600-08CMP | -08 MP | C |

600 MP Banjo bolts (AN-04)

600MP series banjo bolts are compatible with AN-04 fittings.

Please see the adaptors section for AN-06 & AN-08 banjo bolts.

Copper crush washers can be found in the Ancillary (13) section,

Fitting type:

Banjo Bolt (AN-04)

Application:

Brake/Clutch/Fuel Inj

To suit fitting:

600 series (AN-04)

Material:

C, CH, D, Z1

600 MP Crimp collars (AN-04, AN-06 & AN-08)

Crimp collars for use with 600MP fittings AN-04, AN-06 & AN-08

Fluid applications:

Power steering, Gear shift, Active aero & High pressure hydraulics.

Construction:

Corrosion and fire resistant
Stainless steel braid with Aramid fibre under braid and PTFE liner

Compatible fittings:

600HP Crimp = AN-04HP, AN-06HP & AN-08HP

Please note:

Anti-static.

600HP HOSE SERIES (HIGH PRESSURE)

The 600HP (High Pressure) series features a smooth bore PTFE liner, wrapped in tightly woven aramid fibre and outer 304 grade Stainless Steel braid.

The Stainless steel braid offers abrasion, corrosion and fire resistance, which also provides heat protection up to 260°C.

Compatible with HP crimp fittings only. (Specialist equipment required).



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Outer Diameter mm / inches | PTFE Wall mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|----------|--------------|------------------------------|-------------------------------|--------------------------|----------------------------|-------------------------|------------------------|-----------------------------|------------------------|
| 600-04HP | -04 | 5,1 (0,201) | 8,9 (0,350) | 0,76 (0,003) | 375 (6889) | 1500 (21755) | 0,119 (0,080) | 45 (1,772) | -70/+260 (-94/+500) |
| 600-06HP | -06 | 8,2 (0,323) | 12,3 (0,484) | 0,76 (0,003) | 325 (4713) | 1300 (18854) | 0,164 (0,110) | 70 (0,276) | -70/+260 (-94/+500) |
| 600-08HP | -08 | 10,6 (0,417) | 14,8 (0,583) | 0,76 (0,003) | 250 (3625) | 1000 (14503) | 0,193 (0,130) | 90 (3,543) | -70/+260 (-94/+500) |

Note: Temperature affects maximum working pressure as listed; for temps above 130°C reduce the working pressure by 0.75% for each degree above 130°C. Max 260°C.

600HP JIC/UNF

Crimp fittings (AN-04, AN-06 & AN-08)

600HP series JIC/UNF crimp fittings are compatible with 600HP AN-04, AN-06 & AN-08 hose sizes.

Fitting type:

Swage/Crimp

Applications:

Power steering, Gear shift, Active aero & HP hydraulics.

Compatible hose:

600HP (AN-04, AN-06 & AN-08)

Material:

C

Example part no:

S6001-04CHP = Stainless steel

Notes:

Suitable for Motorsport and road use.

Please order crimp collars separately.

S6001



Straight female high pressure concave

| Part No. | To suit hose | Thread | Mat |
|-------------|-------------------|----------------|-----|
| S6001-04CHP | -04 high pressure | JIC 7/16" x 20 | C |
| S6001-06CHP | -06 high pressure | JIC 9/16" x 18 | C |
| S6001-08CHP | -08 high pressure | JIC 3/4" x 16 | C |

S6046



45° swept tube female high pressure concave

| Part No. | To suit hose | Thread | Mat |
|-------------|-------------------|----------------|-----|
| S6046-04CHP | -04 high pressure | JIC 7/16" x 20 | C |
| S6046-06CHP | -06 high pressure | JIC 9/16" x 18 | C |
| S6046-08CHP | -08 high pressure | JIC 3/4" x 16 | C |

S6091



90° swept tube female high pressure concave

| Part No. | To suit hose | Thread | Mat |
|-------------|-------------------|----------------|-----|
| S6091-04CHP | -04 high pressure | JIC 7/16" x 20 | C |
| S6091-06CHP | -06 high pressure | JIC 9/16" x 18 | C |
| S6091-08CHP | -08 high pressure | JIC 3/4" x 16 | C |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

S6120

120° swept tube female high pressure concave

| Part No. | To suit hose | Thread | Mat |
|-------------|-------------------|----------------|-----|
| S6120-04CHP | -04 high pressure | JIC 7/16" x 20 | C |
| S6120-06CHP | -06 high pressure | JIC 9/16" x 18 | C |

S6150

150° swept tube female high pressure concave

| Part No. | To suit hose | Thread | Mat |
|-------------|-------------------|----------------|-----|
| S6150-04CHP | -04 high pressure | JIC 7/16" x 20 | C |

S6180

180° swept tube female high pressure concave

| Part No. | To suit hose | Thread | Mat |
|-------------|-------------------|----------------|-----|
| S6180-04CHP | -04 high pressure | JIC 7/16" x 20 | C |

RC600HP

Collars to suit 600 series hose high pressure

| Part No. | To suit hose: | Mat |
|-------------|-------------------|-----|
| RC600-04CHP | -04 high pressure | C |
| RC600-06CHP | -06 high pressure | C |
| RC600-08CHP | -08 high pressure | C |

600HP JIC/UNF

Crimp fittings (AN-04, AN-06 & AN-08)

Fitting type:*Swage/Crimp***Applications:***Power steering, Gear shift, Active aero & HP hydraulics.***Compatible hose:***600HP (AN-04, AN-06 & AN-08)***Material:***C***Example part no:***S6001-04CHP = Stainless steel***Notes:***Suitable for Motorsport and road use.**Please order crimp collars separately.***600HP Crimp collars**
(AN-04, AN-06 & AN-08)

Crimp collars for use with 600HP fittings AN-04, AN-06 & AN-08



GOODRIDGE

www.goodridge.com



04

200 SERIES
HOSE AND FITTINGS

GOODRIDGE

200 series braided hose and fittings

Goodridge 200 series rubber lined hoses are compatible with Goodridge 236 cutter style fittings, ideal for use with 'push fit' applications. Available in bore sizes AN-04 to AN-16.

The 200 series hose features a reinforced chlorinated Polyethylene (CPE) synthetic rubber liner, wrapped in a double stainless steel external braid for additional resistance to abrasion.

The 210 series hose features a reinforced chlorinated Polyethylene (CPE) synthetic rubber liner, wrapped in a stainless steel internal braid and light weight nylon external braid; for use where the additional abrasive resistant stainless steel braided 200 series hose is not required.

The 202 series hose is a single braided hose, for use with 936 hose finishers.

Benefits:

- Uninterrupted flow
- Burst pressure up to 1000 PSI / 69 BAR (200-04)
- Temperature resistance from (-49°C to +150°C).
- Bend radius to 50mm (AN-04)

Features:

- Smooth bore
- Integral stainless steel braid
- Rubber lined
- Fibre / Stainless steel braided options

Can be used
with 'Push fit'
applications

Not for use
'in cockpit'

Which hose do I need?

200, 210 and 202 hose comparison chart:

| Hose range | Push fit only | Lightest weight | Highest temp resistance | Additional external protection |
|------------|---------------|-----------------|-------------------------|--------------------------------|
| 200 | | | x | x |
| 210 | | x | | |
| 202 | x | | | x |

Fitting Type:

Reusable – Cutter style
Push fit

Fluid applications:

Fuel, Oil, Coolant, Water and
Methanol

Compatible fittings:

236, 336, 2776 & 936
hose finishers. (202 series
compatible with 936 only)

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

Fluid applications:

Fuel, Oil, Coolant, Water and Methanol.

Compatible fittings:

236, 336, 2776 & 936 hose finishers.

Notes:









Not to be used for fuel inside cockpit.

200

The 200 series hose features a reinforced chlorinated Polyethylene (CPE) synthetic rubber liner, wrapped in a double stainless steel external braid for additional resistance to abrasion. Ideal for use outside the cockpit, engine bay and underneath vehicles where abrasive protection is required.



Data in this table is for the hose only

| Part No. | Dash  Size | Max Bore Size  mm / inches | Outer Diameter  mm / inches | Working Press  Bar / Psi | Burst Pres  Bar / Psi | Weight  Kg/M / Lb/Ft | Min Bend Rad  mm / inches | Temp Range  °C / °F |
|----------|---|---|--|---|--|---|--|--|
| 200-04 | -04 | 5,4 (0,212) | 11,2 (0,440) | 69 (1000) | 414 (6000) | 0,179 (0,12) | 50,80 (2,00) | -40/+150 (-65/+302) |
| 200-06 | -06 | 8,7 (0,342) | 14,20 (0,558) | 69 (1000) | 414 (6000) | 0,208 (0,14) | 63,50 (2,50) | -40/+150 (-65/+302) |
| 200-08 | -08 | 11,1 (0,463) | 17,1 (0,762) | 69 (1000) | 345 (5000) | 0,25 (0,17) | 88,90 (3,50) | -40/+150 (-65/+302) |
| 200-10 | -10 | 14,2 (0,558) | 20,8 (0,817) | 69 (1000) | 345 (5000) | 0,327 (0,22) | 101,6 (4,00) | -40/+150 (-65/+302) |
| 200-12 | -12 | 17,4 (0,684) | 24,4 (0,959) | 69 (1000) | 259 (3750) | 0,402 (0,27) | 114,3 (4,50) | -40/+150 (-65/+302) |
| 200-16 | -16 | 22,2 (0,872) | 30,5 (1,199) | 52 (750) | 172 (2500) | 0,610 (0,41) | 139,70 (5,50) | -40/+150 (-65/+302) |

Data in this table is for the hose only

Fluid applications:

Fuel, Oil, Coolant, Water and Methanol.

Compatible fittings:

236, 336, 2776 & 936 hose finishers.

Notes:









Not to be used for fuel inside cockpit.

210

The 210 series hose features a reinforced chlorinated Polyethylene (CPE) synthetic rubber liner, wrapped in a stainless steel internal braid and light weight nylon external braid. Ideal for use in protected areas outside the cockpit – engine bay fuel, coolant and oil plumbing applications.



Data in this table is for the hose only

| Part No. | Dash  Size | Max Bore Size  mm / inches | Outer Diameter  mm / inches | Working Press  Bar / Psi | Burst Pres  Bar / Psi | Weight  Kg/M / Lb/Ft | Min Bend Rad  mm / inches | Temp Range  °C / °F |
|----------|---|---|--|---|--|---|--|--|
| 210-04 | -04 | 5,4 (0,212) | 11,2 (0,440) | 34 (500) | 138 (2000) | 0,112 (0,075) | 50,80 (2,00) | -40/+150 (-40/+302) |
| 210-06 | -06 | 8,7 (0,342) | 14,2 (0,558) | 34 (500) | 138 (2000) | 0,141 (0,095) | 63,50 (2,50) | -40/+150 (-40/+302) |
| 210-08 | -08 | 11,1 (0,436) | 17,1 (0,672) | 34 (500) | 138 (2000) | 0,179 (0,120) | 88,90 (3,50) | -40/+150 (-40/+302) |
| 210-10 | -10 | 14,2 (0,558) | 20,8 (0,817) | 34 (500) | 138 (2000) | 0,231 (0,115) | 101,60 (4,00) | -40/+150 (-40/+302) |
| 210-12 | -12 | 17,4 (0,684) | 24,4 (0,959) | 24 (350) | 97 (1400) | 0,372 (0,250) | 114,30 (4,50) | -40/+150 (-40/+302) |
| 210-16 | -16 | 22,2 (0,872) | 30,5 (1,199) | 24 (350) | 97 (1400) | 0,476 (0,320) | 139,70 (5,50) | -40/+150 (-40/+302) |

Data in this table is for the hose only

Fluid applications:

Fuel, Oil, Coolant, Water and Methanol.

Compatible fittings:

936 hose finishers.

Notes:








Not to be used with 1136, 236, 2776 or 536 fittings.

202

The 202 hose is a rubber lined, single braid hose, compatible with 936 hose finishers.



Data in this table is for the hose only

| Part No. | Dash  Size | Max Bore Size  mm / inches | Outer Diameter  mm / inches | Working Press  Bar / Psi | Burst Pres  Bar / Psi | Min Bend Rad  mm / inches | Temp Range  °C / °F |
|----------|---|---|--|---|--|--|--|
| 202-04 | -04 | 6,70 (0,264) | 13,0 (0,512) | 63 (916) | 350 (5076) | 38 (1,50) | -40/+150 (-40/+302) |
| 202-05 | -05 | 7,90 (0,311) | 14,5 (0,571) | 63 (916) | 350 (5076) | 45 (1,77) | -40/+150 (-40/+302) |
| 202-06 | -06 | 9,50 (0,374) | 15,5 (0,610) | 63 (916) | 350 (5076) | 53 (2,09) | -40/+150 (-40/+302) |

236/1136 JIC fittings

The 236 fittings are reusable fittings designed for use with the 200 & 210 series hose ranges. The triple seal/double O-ring nitrile, cutter design ensures a secure leak free connection, easily assembled using basic hand tools.

The 1136 fittings use a single nipple design, available in straight, 45° & 90° options; AN-04 only.

The 1136 and 236 fitting alignments can be adjusted in situ.

Fitting type:

Reusable

Fluid applications:

Fuel, Oil, Coolant, Water and Methanol.

Compatible hose:

200 & 210

Material:

D = Aluminium (Red & Blue)
BK = Aluminium (Black)

236-01



Straight female

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-----------|--------------|-------------|-----|----------|
| 1136-0104 | 200-04 | 7/16 x 20 | D | red/blue |
| 236-0106 | 200-06 | 9/16 x 18 | D | red/blue |
| 236-0108 | 200-08 | 3/4 x 16 | D | red/blue |
| 236-0110 | 200-10 | 7/8 x 14 | D | red/blue |
| 236-0112 | 200-12 | 1 1/16 x 12 | D | red/blue |
| 236-0116 | 200-16 | 1 5/16 x 12 | D | red/blue |

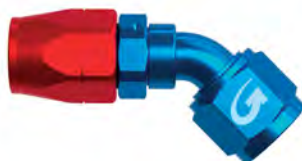
236-30



30° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|----------|--------------|-------------|-----|----------|
| 236-3106 | 200-06 | 9/16 x 18 | D | red/blue |
| 236-3108 | 200-08 | 3/4 x 16 | D | red/blue |
| 236-3110 | 200-10 | 7/8 x 14 | D | red/blue |
| 236-3112 | 200-12 | 1 1/16 x 12 | D | red/blue |
| 236-3116 | 200-16 | 1 5/16 x 12 | D | red/blue |

236-45



45° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-----------|--------------|-------------|-----|----------|
| 1136-4504 | 200-04 | 7/16 x 20 | D | red/blue |
| 236-4506 | 200-06 | 9/16 x 18 | D | red/blue |
| 236-4508 | 200-08 | 3/4 x 16 | D | red/blue |
| 236-4510 | 200-10 | 7/8 x 14 | D | red/blue |
| 236-4512 | 200-12 | 1 1/16 x 12 | D | red/blue |
| 236-4516 | 200-16 | 1 5/16 x 12 | D | red/blue |

236-60



60° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|----------|--------------|-------------|-----|----------|
| 236-6106 | 200-06 | 9/16 x 18 | D | red/blue |
| 236-6108 | 200-08 | 3/4 x 16 | D | red/blue |
| 236-6110 | 200-10 | 7/8 x 14 | D | red/blue |
| 236-6112 | 200-12 | 1 1/16 x 12 | D | red/blue |
| 236-6116 | 200-16 | 1 5/16 x 12 | D | red/blue |

236-90



90° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-----------|--------------|-------------|-----|----------|
| 1136-9004 | 200-04 | 7/16 x 20 | D | red/blue |
| 236-9006 | 200-06 | 9/16 x 18 | D | red/blue |
| 236-9008 | 200-08 | 3/4 x 16 | D | red/blue |
| 236-9010 | 200-10 | 7/8 x 14 | D | red/blue |
| 236-9012 | 200-12 | 1 1/16 x 12 | D | red/blue |
| 236-9016 | 200-16 | 1 5/16 x 12 | D | red/blue |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

236-120

120° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-----------|--------------|-------------|-----|----------|
| 236-12006 | 200-06 | 9/16 x 18 | D | red/blue |
| 236-12008 | 200-08 | 3/4 x 16 | D | red/blue |
| 236-12010 | 200-10 | 7/8 x 14 | D | red/blue |
| 236-12012 | 200-12 | 1 1/16 x 12 | D | red/blue |
| 236-12016 | 200-16 | 1 5/16 x 12 | D | red/blue |

236-150

150° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-----------|--------------|-------------|-----|----------|
| 236-15006 | 200-06 | 9/16 x 18 | D | red/blue |
| 236-15008 | 200-08 | 3/4 x 16 | D | red/blue |
| 236-15010 | 200-10 | 7/8 x 14 | D | red/blue |
| 236-15012 | 200-12 | 1 1/16 x 12 | D | red/blue |
| 236-15016 | 200-16 | 1 5/16 x 12 | D | red/blue |

236-180

180° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-----------|--------------|-------------|-----|----------|
| 236-18006 | 200-06 | 9/16 x 18 | D | red/blue |
| 236-18008 | 200-08 | 3/4 x 16 | D | red/blue |
| 236-18010 | 200-10 | 7/8 x 14 | D | red/blue |
| 236-18012 | 200-12 | 1 1/16 x 12 | D | red/blue |
| 236-18016 | 200-16 | 1 5/16 x 12 | D | red/blue |

SOCKET 236

Socket

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|----------|--------------|-------------|-----|--------|
| 1207-06D | 200-06 | 9/16 x 18 | D | red |
| 1207-08D | 200-08 | 3/4 x 16 | D | red |
| 1207-10D | 200-10 | 7/8 x 14 | D | red |
| 1207-12D | 200-12 | 1 1/16 x 12 | D | red |

236/1136 JIC fittings

The 236 fittings are reusable fittings designed for use with the 200 & 210 series hose ranges. The triple seal/double O-ring nitrile, cutter design ensures a secure leak free connection, easily assembled using basic hand tools.

The 1136 fittings use a single nipple design, available in straight, 45° & 90° options; AN-04 only.

The 1136 and 236 fitting alignments can be adjusted in situ.

Fitting type:

Reusable

Fluid applications:

Fuel, Oil, Coolant, Water and Methanol.

Compatible hose:

200 & 210

Material:

D = Aluminium (Red & Blue)
BK = Aluminium (Black)



Top Tip: Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

236/1136 JIC fittings

The 236 fittings are reusable fittings designed for use with the 200 & 210 series hose ranges. The triple seal/double O-ring nitrile, cutter design ensures a secure leak free connection, easily assembled using basic hand tools.

The 1136 fittings use a single nipple design, available in straight, 45° & 90° options; AN-04 only.

The 1136 and 236 fitting alignments can be adjusted in situ.

Fitting type:

Reusable

Fluid applications:

Fuel, Oil, Coolant, Water and Methanol.

Compatible hose:

200 & 210

Material:

D = Aluminium (Red & Blue)
BK = Aluminium (Black)

236-01BK



Straight female

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-------------|--------------|-------------|-----|--------|
| 1136-0104BK | 200-04 | 7/16 x 20 | D | black |
| 236-0106BK | 200-06 | 9/16 x 18 | D | black |
| 236-0108BK | 200-08 | 3/4 x 16 | D | black |
| 236-0110BK | 200-10 | 7/8 x 14 | D | black |
| 236-0112BK | 200-12 | 1 1/16 x 12 | D | black |
| 236-0116BK | 200-16 | 1 5/16 x 12 | D | black |

236-31BK



30° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|------------|--------------|-------------|-----|--------|
| 236-3106BK | 200-06 | 9/16 x 18 | D | black |
| 236-3108BK | 200-08 | 3/4 x 16 | D | black |
| 236-3110BK | 200-10 | 7/8 x 14 | D | black |
| 236-3112BK | 200-12 | 1 1/16 x 12 | D | black |
| 236-3116BK | 200-16 | 1 5/16 x 12 | D | black |

236-45BK



45° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-------------|--------------|-------------|-----|--------|
| 1136-4504BK | 200-04 | 7/16 x 20 | D | black |
| 236-4506BK | 200-06 | 9/16 x 18 | D | black |
| 236-4508BK | 200-08 | 3/4 x 16 | D | black |
| 236-4510BK | 200-10 | 7/8 x 14 | D | black |
| 236-4512BK | 200-12 | 1 1/16 x 12 | D | black |
| 236-4516BK | 200-16 | 1 5/16 x 12 | D | black |

236-61BK



60° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|------------|--------------|-------------|-----|--------|
| 236-6106BK | 200-06 | 9/16 x 18 | D | black |
| 236-6108BK | 200-08 | 3/4 x 16 | D | black |
| 236-6110BK | 200-10 | 7/8 x 14 | D | black |
| 236-6112BK | 200-12 | 1 1/16 x 12 | D | black |
| 236-6116BK | 200-16 | 1 5/16 x 12 | D | black |

236-90BK



90° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-------------|--------------|-------------|-----|--------|
| 1136-9004BK | 200-04 | 7/16 x 20 | D | black |
| 236-9006BK | 200-06 | 9/16 x 18 | D | black |
| 236-9008BK | 200-08 | 3/4 x 16 | D | black |
| 236-9010BK | 200-10 | 7/8 x 14 | D | black |
| 236-9012BK | 200-12 | 1 1/16 x 12 | D | black |
| 236-9016BK | 200-16 | 1 5/16 x 12 | D | black |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

236-120BK

120° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-------------|--------------|-------------|-----|--------|
| 236-12006BK | 200-06 | 9/16 x 18 | D | black |
| 236-12008BK | 200-08 | 3/4 x 16 | D | black |
| 236-12010BK | 200-10 | 7/8 x 14 | D | black |
| 236-12012BK | 200-12 | 1 1/16 x 12 | D | black |
| 236-12016BK | 200-16 | 1 5/16 x 12 | D | black |

236-150BK

150° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-------------|--------------|-------------|-----|--------|
| 236-15006BK | 200-06 | 9/16 x 18 | D | black |
| 236-15008BK | 200-08 | 3/4 x 16 | D | black |
| 236-15010BK | 200-10 | 7/8 x 14 | D | black |
| 236-15012BK | 200-12 | 1 1/16 x 12 | D | black |
| 236-15016BK | 200-16 | 1 5/16 x 12 | D | black |

236-180BK

180° female swept tube

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|-------------|--------------|-------------|-----|--------|
| 236-18006BK | 200-06 | 9/16 x 18 | D | black |
| 236-18008BK | 200-08 | 3/4 x 16 | D | black |
| 236-18010BK | 200-10 | 7/8 x 14 | D | black |
| 236-18012BK | 200-12 | 1 1/16 x 12 | D | black |
| 236-18016BK | 200-16 | 1 5/16 x 12 | D | black |

SOCKET 236BK

Socket

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|------------|--------------|-------------|-----|--------|
| 1207-06DBK | 200-06 | 9/16 x 18 | D | black |
| 1207-08DBK | 200-08 | 3/4 x 16 | D | black |
| 1207-10DBK | 200-10 | 7/8 x 14 | D | black |
| 1207-12DBK | 200-12 | 1 1/16 x 12 | D | black |

236/1136 JIC fittings

The 236 fittings are reusable fittings designed for use with the 200 & 210 series hose ranges. The triple seal/double O-ring nitrile, cutter design ensures a secure leak free connection, easily assembled using basic hand tools.

The 1136 fittings use a single nipple design, available in straight, 45° & 90° options; AN-04 only.

The 1136 and 236 fitting alignments can be adjusted in situ.

Fitting type:

Reusable

Fluid applications:

Fuel, Oil, Coolant, Water and Methanol.

Compatible hose:

200 & 210

Material:

D = Aluminium (Red & Blue)
BK = Aluminium (Black)



Top Tip: Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

336 JIC fittings

The 336 fittings are reusable fittings designed for use with the 200 & 210 series hose ranges; featuring a forged elbow for superior strength and rigidity. In addition, a lower profile is useful for restricted access locations.

A triple seal/double O-ring, nitrile cutter design ensures a secure leak free connection; easily assembled using basic hand tools.

336-45



45° female forged elbow

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|----------|--------------|-------------|-----|----------|
| 336-4506 | 200-06 | 9/16 x 18 | D | red/blue |
| 336-4508 | 200-08 | 3/4 x 16 | D | red/blue |
| 336-4510 | 200-10 | 7/8 x 14 | D | red/blue |
| 336-4512 | 200-12 | 1 1/16 x 12 | D | red/blue |

336-90



90° female forged elbow

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|----------|--------------|-------------|-----|----------|
| 336-9006 | 200-06 | 9/16 x 18 | D | red/blue |
| 336-9008 | 200-08 | 3/4 x 16 | D | red/blue |
| 336-9010 | 200-10 | 7/8 x 14 | D | red/blue |
| 336-9012 | 200-12 | 1 1/16 x 12 | D | red/blue |

336-45BK



45° female forged elbow

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|------------|--------------|-------------|-----|--------|
| 336-4506BK | 200-06 | 9/16 x 18 | D | black |
| 336-4508BK | 200-08 | 3/4 x 16 | D | black |
| 336-4510BK | 200-10 | 7/8 x 14 | D | black |
| 336-4512BK | 200-12 | 1 1/16 x 12 | D | black |

336-90BK



90° female forged elbow

| Part No. | To suit hose | JIC/UNF | Mat | Colour |
|------------|--------------|-------------|-----|--------|
| 336-9006BK | 200-06 | 9/16 x 18 | D | black |
| 336-9008BK | 200-08 | 3/4 x 16 | D | black |
| 336-9010BK | 200-10 | 7/8 x 14 | D | black |
| 336-9012BK | 200-12 | 1 1/16 x 12 | D | black |

Fitting type:

Reusable

Fluid applications:

Fuel, Oil, Coolant, Water and Methanol.

Compatible hose:

200 & 210

Material:

D = Aluminium (Red & Blue)

Notes:

Not available in AN-04

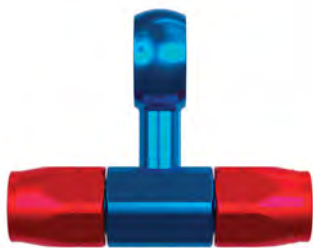
Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

2776-1106

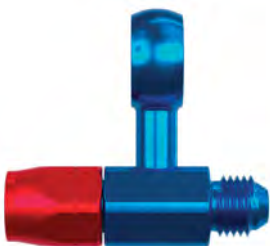
Banjo to hose end

| Part No. | To suit hose | Colour | JIC/UNF | Mat |
|-----------|--------------|----------|---------|-----|
| 2776-1106 | -06 | red-blue | - | D |

2776-2106

Banjo to hose connection

| Part No. | To suit hose | Colour | JIC/UNF | Mat |
|-----------|--------------|----------|---------|-----|
| 2776-2106 | -06 | red-blue | - | D |

2776-3106

Banjo to hose end to male on run

| Part No. | To suit hose | Colour | JIC/UNF | Mat |
|-----------|--------------|----------|-----------|-----|
| 2776-3106 | -06 | red-blue | 9/16 x 18 | D |

2776-06-M12

Banjo bolt for carburetor

| Part No. | Note | Colour | Thread | Mat |
|---------------|---------------------------|--------|-----------------------|-----|
| 2776-06-M122D | requires CW901-M16 washer | red | M12 x 1,25 (Dellorto) | D |
| 2776-06-M12D | requires CW901-M16 washer | red | M12 x 1,5 (Weber) | D |

Note:

Please see Ancillary (13) section for Aluminium crush washers

2776 JIC fittings

Manufactured for use with the 200 & 210 series hose ranges, the 2776 fittings are designed for carburettor applications. A triple seal/double O-ring, nitrile cutter design ensures a secure leak free connection; easily assembled using basic hand tools.

The 2776 range is accompanied by anodised aluminium carburettor bolts and washers.

Please see Ancillary (13) section for Aluminium crush washers.

Fitting type:

Reusable

Applications:

Weber, Holley & Dellorto carburettors.

Compatible hose:

200 & 210

Material:

D = Aluminium (Red & Blue)

Notes:

Only available in AN-06



Top Tip: Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

2776 JIC fittings

Manufactured for use with the 200 & 210 series hose ranges, the 2776 fittings are designed for carburettor applications. A triple seal/double O-ring, nitrile cutter design ensures a secure leak free connection; easily assembled using basic hand tools. The 2776 range includes anodised aluminium carburettor bolts and washers.

Please see Ancillary (13) section for Aluminium crush washers.

2776-1106BK



Banjo to hose end

| Part No. | To suit hose | Colour | JIC/UNF | Mat |
|-------------|--------------|--------|---------|-----|
| 2776-1106BK | -06 | black | - | D |

2776-2106BK



Banjo to hose connection

| Part No. | To suit hose | Colour | JIC/UNF | Mat |
|-------------|--------------|--------|---------|-----|
| 2776-2106BK | -06 | black | - | D |

2776-3106BK



Banjo to hose end to male on run

| Part No. | To suit hose | Colour | JIC/UNF | Mat |
|-------------|--------------|--------|-----------|-----|
| 2776-3106BK | -06 | black | 9/16 x 18 | D |

2776-06-M12BK



Banjo bolt for carburetor

| Part No. | Note | Colour | Thread | Mat |
|-----------------|---------------------------|--------|-----------------------|-----|
| 2776-06-M122DBK | requires CW901-M16 washer | black | M12 x 1,25 (Dellorto) | D |
| 2776-06-M12DBK | requires CW901-M16 washer | black | M12 x 1,5 (Weber) | D |

Note:

Please see Ancillary (13) section for Aluminium crush washers

Fitting type:

Reusable

Applications:

Weber, Holley & Dellorto carburettors.

Compatible hose:

200 & 210

Material:

DBK = Aluminium (Black)

Notes:

Only available in AN-06

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

936**Hose finisher**

| Part No. | Colour | Suit 200/210 hose | Suit 202 hose | Suit TF-TU25 hose |
|-----------|--------|-------------------|---------------|-------------------|
| 936-04DB | Blue | -04 & -05 | -04 | - |
| 936-04DBK | Black | -04 & -05 | -04 | - |
| 936-04DCH | Chrome | -04 & -05 | -04 | - |
| 936-04DR | Red | -04 & -05 | -04 | - |
| 936-06DB | Blue | -06 & -07 | -05 & -06 | -04 |
| 936-06DBK | Black | -06 & -07 | -05 & -06 | -04 |
| 936-06DCH | Chrome | -06 & -07 | -05 & -06 | -04 |
| 936-06DR | Red | -06 & -07 | -05 & -06 | -04 |
| 936-08DB | Blue | -08 | - | -06 |
| 936-08DBK | Black | -08 | - | -06 |
| 936-08DCH | Chrome | -08 | - | -06 |
| 936-08DR | Red | -08 | - | -06 |
| 936-10DB | Blue | -10 | - | -08 |
| 936-10DBK | Black | -10 | - | -08 |
| 936-10DCH | Chrome | -10 | - | -08 |
| 936-10DR | Red | -10 | - | -08 |
| 936-12DB | Blue | -12 | - | -10 |
| 936-12DBK | Black | -12 | - | -10 |
| 936-12DCH | Chrome | -12 | - | -10 |
| 936-12DR | Red | -12 | - | -10 |
| 936-16DB | Blue | -16 | - | - |
| 936-16DBK | Black | -16 | - | - |
| 936-16DCH | Chrome | -16 | - | - |
| 936-16DR | Red | -16 | - | - |

936 Hose finishers

Manufactured for use with the 200, 210 & 202 series hose ranges, the 936 hose finishers are designed for push fit applications. The internal gear drive clamp ensures a secure leak free connection; easily assembled using basic hand tools.

Fluid Applications:

Fuel, Oil, Coolants & Water.

Compatible hose:

200, 210 & 202

Material:

Stainless steel gear drive clamp, Aluminium body.

Anodised aluminium colour:

DCH = Chrome

DBU = Blue

DR = Red

BK = Black

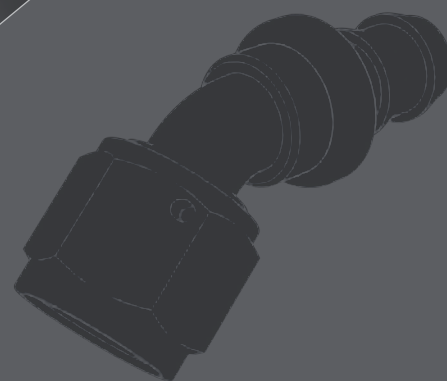
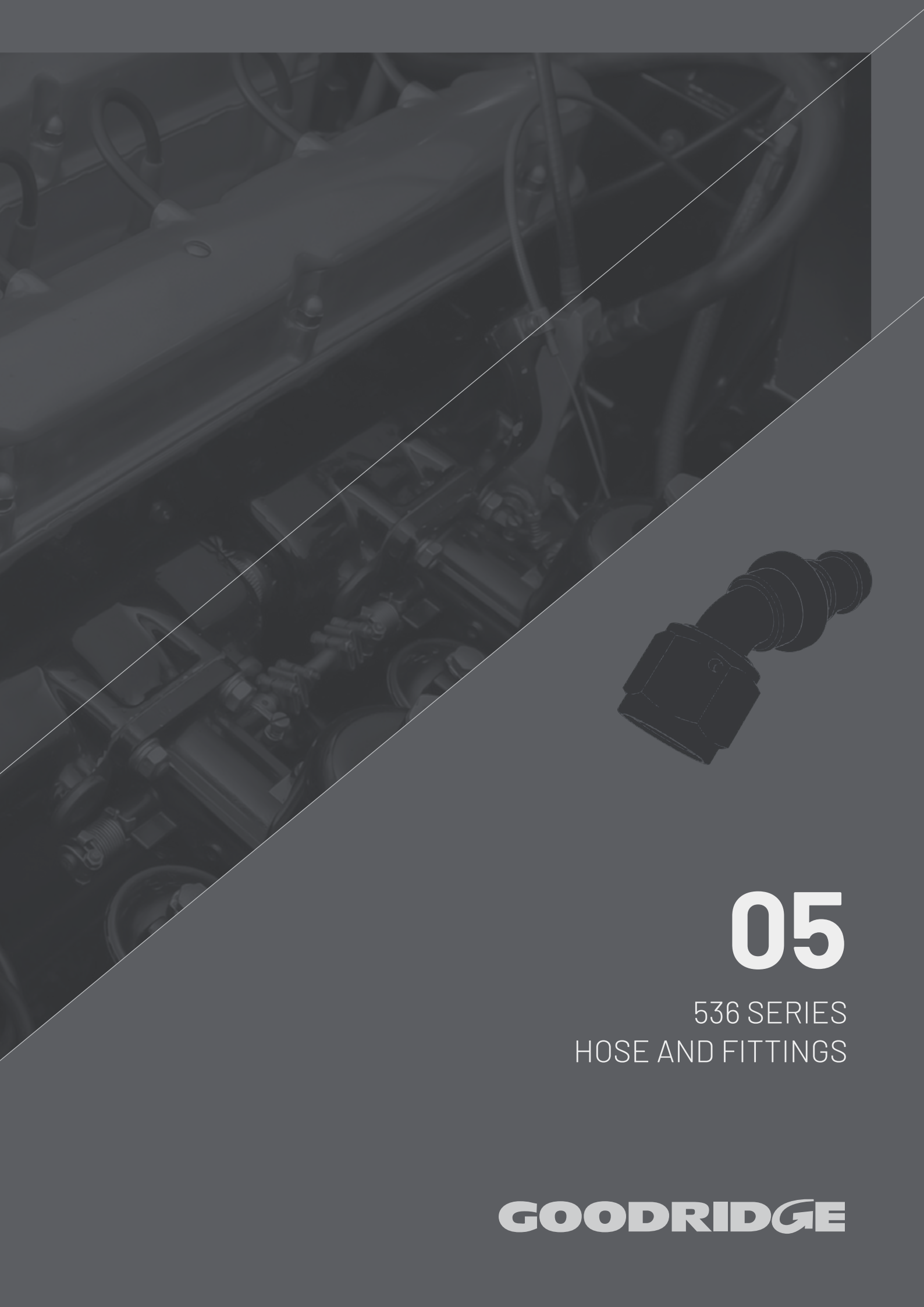


Top Tip: Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.



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05

536 SERIES
HOSE AND FITTINGS

GOODRIDGE

536 series hose and fittings

Goodridge 536 series hose and TF-TU25 series hoses are designed for 'push fit' applications. The 536 series is a textile reinforced rubber hose with an abrasive resistant synthetic rubber (Nitrile & PVC) cover. Ideal for low pressure oil breather applications where the external stainless steel abrasive protection of the 200 series hose is not required.

The 536 hose **is not for 'in cockpit' use and not recommended for vacuum systems**. Compatible with 536 'sure lock' fittings. The TF-TU25 is a cotton reinforced rubber hose with a synthetic rubber outer and oil resisting compound inner. Ideal for use with low pressure push fit applications and safe to be used with fuel. **Not for use 'in cockpit' and not recommended for vacuum systems**.

Compatible with push fit hose tails.

Benefits:

- Uninterrupted flow
- Burst pressure up to 1146 PSI / 79 BAR (TF-TU25)
- Temperature resistance from -40°C to 100°C (536)
- Bend radius to 40mm (TF-TU25-04)

Features:

- Smooth bore
- Textile reinforced
- Rubber lined
- Synthetic rubber covering

Ideal for
'Push fit'
applications

Not for use
'in cockpit'

Which hose do I need?

536 and TF-TU25 hose comparison chart:

| Hose range | 536 'sure lock' fitting compatible | Push fit Compatible | Oil, Coolant, Air & Water | Fuel |
|------------|------------------------------------|---------------------|---------------------------|------|
| 536/B | X | X | X | |
| TF-TU25 | | X | | X |

Fitting Type:

Push fit

Fluid applications:

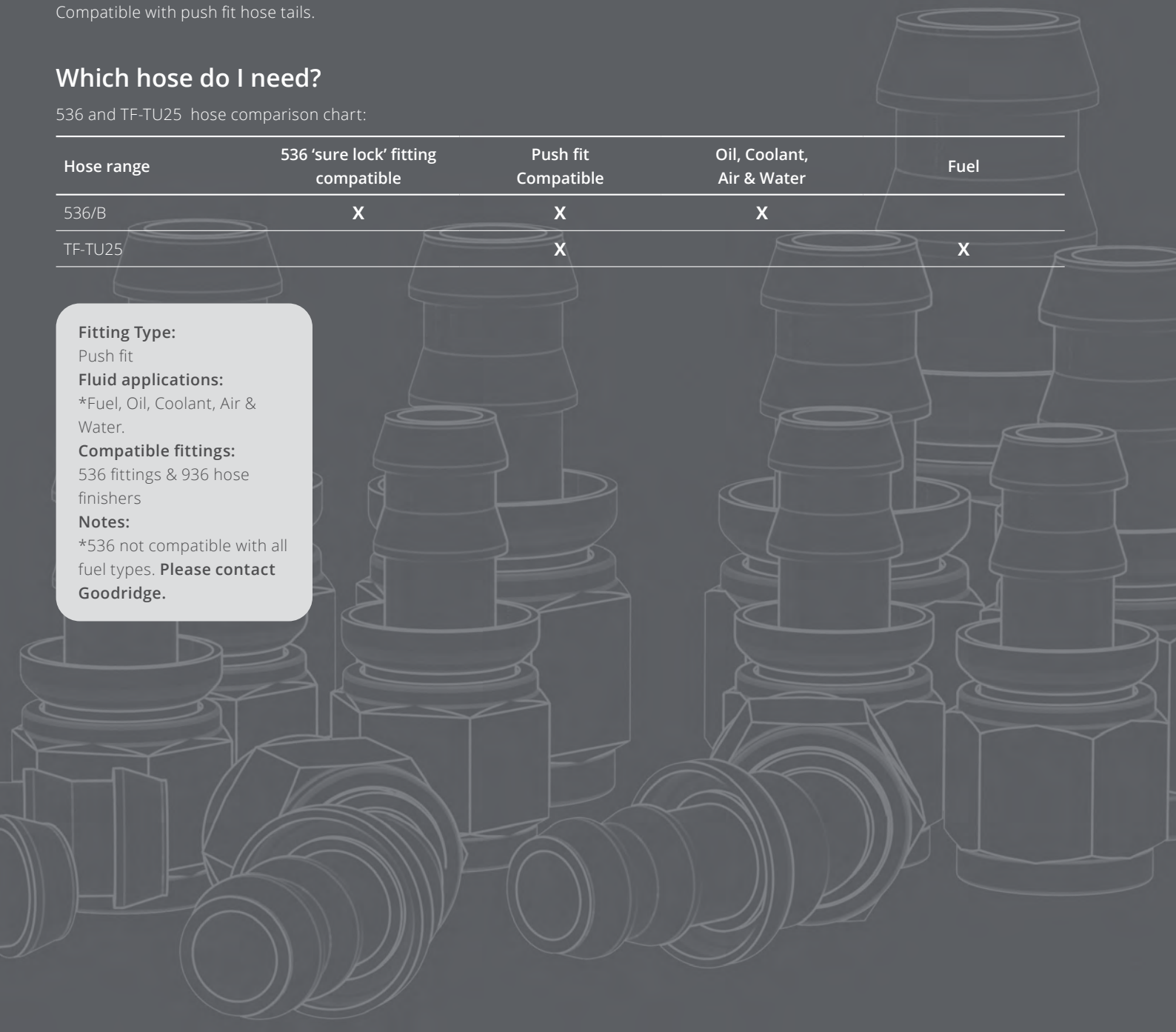
*Fuel, Oil, Coolant, Air & Water.

Compatible fittings:

536 fittings & 936 hose finishers

Notes:

*536 not compatible with all fuel types. **Please contact Goodridge.**



Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

Fluid applications:

*Fuel, Oil, Coolant, Air & Water.

Compatible fittings:

536 fittings & 936 hose finishers

Notes:

Not compatible with all fuel types.

Please contact Goodridge.

536 HOSE SERIES

The 536 series is a textile reinforced rubber hose with a blue elastomer cover. Ideal for low pressure applications where the external abrasive protection of the 200 series hose is not required.



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Outer Diameter mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|----------|--------------|------------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-----------------------------|-----------------------|
| 536-04 | -04 | 6,35 (0,250) | 12,70 (0,499) | 17 (247) | 69 (1001) | 0,10 (0,067) | 76,20 (3,00) | -40/+100 (-40/+212) |
| 536-06 | -06 | 9,52 (0,374) | 15,87 (0,624) | 17 (247) | 69 (1001) | 0,16 (0,108) | 76,20 (3,00) | -40/+100 (-40/+212) |
| 536-08 | -08 | 12,70 (0,499) | 19,05 (0,749) | 17 (247) | 69 (1001) | 0,22 (0,148) | 127,00 (5,00) | -40/+100 (-40/+212) |
| 536-10 | -10 | 15,87 (0,624) | 23,00 (0,904) | 17 (247) | 69 (1001) | 0,30 (0,202) | 152,40 (6,00) | -40/+100 (-40/+212) |
| 536-12 | -12 | 19,05 (0,749) | 26,19 (1,029) | 17 (247) | 69 (1001) | 0,36 (0,242) | 177,80 (7,00) | -40/+100 (-40/+212) |

Fluid applications:

*Fuel, Oil, Coolant, Air & Water.

Compatible fittings:

536 fittings & 936 hose finishers

Notes:

Not compatible with all fuel types.

Please contact Goodridge.

536B HOSE SERIES

The 536B series is a textile reinforced rubber hose with a black elastomer cover. Ideal for low pressure applications where the external abrasive protection of the 200 series hose is not required.



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Outer Diameter mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|----------|--------------|------------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-----------------------------|-----------------------|
| 536-04B | -04 | 6,35 (0,250) | 12,70 (0,499) | 17 (247) | 69 (1001) | 0,10 (0,067) | 76,20 (3,00) | -40/+100 (-40/+212) |
| 536-06B | -06 | 9,52 (0,374) | 15,87 (0,624) | 17 (247) | 69 (1001) | 0,16 (0,108) | 76,20 (3,00) | -40/+100 (-40/+212) |
| 536-08B | -08 | 12,70 (0,499) | 19,05 (0,749) | 17 (247) | 69 (1001) | 0,22 (0,148) | 127,00 (5,00) | -40/+100 (-40/+212) |
| 536-10B | -10 | 15,87 (0,624) | 23,00 (0,904) | 17 (247) | 69 (1001) | 0,30 (0,202) | 152,40 (6,00) | -40/+100 (-40/+212) |
| 536-12B | -12 | 19,05 (0,749) | 26,19 (1,029) | 17 (247) | 69 (1001) | 0,36 (0,242) | 177,80 (7,00) | -40/+100 (-40/+212) |

Fluid applications:

Fuel, Oil, Coolant and Hydraulic fluids.

Compatible fittings:

536 fittings & 936 hose finishers

Notes:

SAE 100 R6 compliant.

TF-TU25 HOSE SERIES

The TFTU25 series is a cotton reinforced rubber hose with a black synthetic rubber outer and oil resisting seamless rubber compound inner. Ideal for low pressure applications where the external abrasive protection of the 200 series hose is not required.



Data in this table is for the hose only

| Part No. | Dash Size | Max Bore Size mm / inches | Outer Diameter mm / inches | Working Press Bar / Psi | Burst Pres Bar / Psi | Weight Kg/M / Lb/Ft | Min Bend Rad mm / inches | Temp Range °C / °F |
|------------|--------------|------------------------------|-------------------------------|----------------------------|-------------------------|------------------------|-----------------------------|-----------------------|
| TF-TU25-04 | -04 | 6,0 (0,236) | 14,0 (0,551) | 25 (363) | 79 (1146) | 0,15 Kg/m (0.100) | 40 (1.575) | -40/+80 (-40/+176) |
| TF-TU25-06 | -06 | 10,0 (0,393) | 18,0 (0,709) | 25 (363) | 79 (1146) | 0,25 Kg/m (0.170) | 60 (2.362) | -40/+80 (-40/+176) |
| TF-TU25-08 | -08 | 13,0 (0,512) | 21,0 (0,827) | 25 (363) | 79 (1146) | 0,30 Kg/m (0.202) | 80 (3.150) | -40/+80 (-40/+176) |
| TF-TU25-10 | -10 | 16,0 (0,630) | 25,0 (0,984) | 25 (363) | 78 (1131) | 0,40 Kg/m (0.269) | 100 (394) | -40/+80 (-40/+176) |

536 JIC fittings

The 536 series fittings are designed for use with the 536 and 536B hose ranges.

Goodridge developed the 'sure lock' barbed tails specifically for use with the 536 hose range to ensure a simple, safe and reliable connection. In addition, the 536 hose can be turned on the barbed fitting tail for alignment in situ.

Fluid applications:

Fuel, Oil, Coolant, Air and Water.

Compatible hose:

536 and 536B

Material:

D = Aluminium (Blue)
DBK = Aluminium (Black)

Notes:

Once the hose is fitted it must be cut for the fitting to be removed.

536-01



Straight Female Concave Seat

| Part No. | To suit hose | JIC/UNF |
|----------|--------------|--------------|
| 536-0104 | 536-04 | 7/16" x 20 |
| 536-0106 | 536-06 | 9/16" x 18 |
| 536-0108 | 536-08 | 3/4" x 16 |
| 536-0110 | 536-10 | 7/8" x 14 |
| 536-0112 | 536-12 | 1 1/16" x 12 |

536-45



45° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF |
|----------|--------------|--------------|
| 536-4504 | 536-04 | 7/16" x 20 |
| 536-4506 | 536-06 | 9/16" x 18 |
| 536-4508 | 536-08 | 3/4" x 16 |
| 536-4510 | 536-10 | 7/8" x 14 |
| 536-4512 | 536-12 | 1 1/16" x 12 |

536-90



90° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF |
|----------|--------------|--------------|
| 536-9004 | 536-04 | 7/16" x 20 |
| 536-9006 | 536-06 | 9/16" x 18 |
| 536-9008 | 536-08 | 3/4" x 16 |
| 536-9010 | 536-10 | 7/8" x 14 |
| 536-9012 | 536-12 | 1 1/16" x 12 |

536-120



120° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF |
|-----------|--------------|--------------|
| 536-12004 | 536-04 | 7/16" x 20 |
| 536-12006 | 536-06 | 9/16" x 18 |
| 536-12008 | 536-08 | 3/4" x 16 |
| 536-12010 | 536-10 | 7/8" x 14 |
| 536-12012 | 536-12 | 1 1/16" x 12 |

536-150



150° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF |
|-----------|--------------|--------------|
| 536-15004 | 536-04 | 7/16" x 20 |
| 536-15006 | 536-06 | 9/16" x 18 |
| 536-15008 | 536-08 | 3/4" x 16 |
| 536-15010 | 536-10 | 7/8" x 14 |
| 536-15012 | 536-12 | 1 1/16" x 12 |

536-180



180° swept tube female concave seat

| Part No. | To suit hose | Thread |
|-----------|--------------|------------------|
| 536-18004 | 536-04 | JIC 7/16" x 20 |
| 536-18006 | 536-06 | JIC 9/16" x 18 |
| 536-18008 | 536-08 | JIC 3/4" x 16 |
| 536-18010 | 536-10 | JIC 7/8" x 14 |
| 536-18012 | 536-12 | JIC 1 1/16" x 12 |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

536-01DBK

Straight Female Concave Seat

| Part No. | To suit hose | JIC/UNF |
|-------------|--------------|--------------|
| 536-0104DBK | 536-04 | 7/16" x 20 |
| 536-0106DBK | 536-06 | 9/16" x 18 |
| 536-0108DBK | 536-08 | 3/4" x 16 |
| 536-0110DBK | 536-10 | 7/8" x 14 |
| 536-0112DBK | 536-12 | 1 1/16" x 12 |

536-45DBK

45° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF |
|-------------|--------------|--------------|
| 536-4504DBK | 536-04 | 7/16" x 20 |
| 536-4506DBK | 536-06 | 9/16" x 18 |
| 536-4508DBK | 536-08 | 3/4" x 16 |
| 536-4510DBK | 536-10 | 7/8" x 14 |
| 536-4512DBK | 536-12 | 1 1/16" x 12 |

536-90DBK

90° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF |
|-------------|--------------|--------------|
| 536-9004DBK | 536-04 | 7/16" x 20 |
| 536-9006DBK | 536-06 | 9/16" x 18 |
| 536-9008DBK | 536-08 | 3/4" x 16 |
| 536-9010DBK | 536-10 | 7/8" x 14 |
| 536-9012DBK | 536-12 | 1 1/16" x 12 |

536-120DBK

120° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF |
|--------------|--------------|--------------|
| 536-12006DBK | 536-06 | 9/16" x 18 |
| 536-12008DBK | 536-08 | 3/4" x 16 |
| 536-12010DBK | 536-10 | 7/8" x 14 |
| 536-12012DBK | 536-12 | 1 1/16" x 12 |

536-150DBK

150° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF |
|--------------|--------------|--------------|
| 536-15006DBK | 536-06 | 9/16" x 18 |
| 536-15008DBK | 536-08 | 3/4" x 16 |
| 536-15010DBK | 536-10 | 7/8" x 14 |
| 536-15012DBK | 536-12 | 1 1/16" x 12 |

536-180DBK

180° swept tube female concave seat

| Part No. | To suit hose | JIC/UNF |
|--------------|--------------|--------------|
| 536-18006DBK | 536-06 | 9/16" x 18 |
| 536-18008DBK | 536-08 | 3/4" x 16 |
| 536-18010DBK | 536-10 | 7/8" x 14 |
| 536-18012DBK | 536-12 | 1 1/16" x 12 |

536BK JIC fittings

The 536DBK series fittings are designed for use with the 536 and 536B hose ranges.

Goodridge developed the 'sure lock' barbed tails specifically for use with the 536 hose range to ensure a simple, safe and reliable connection. In addition, the 536 hose can be turned on the barbed fitting tail for alignment in situ.

Fluid applications:

Fuel, Oil, Coolant, Air and Water.

Compatible hose:

536 and 536B

Material:

D = Aluminium (Blue)
DBK = Aluminium (Black)

Notes:

Once the hose is fitted it must be cut for the fitting to be removed.



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06

BUILDALINE

GOODRIDGE

buildaline

Everything you need to build your own brake & clutch lines.

- Stainless steel braided PTFE lined hose
- Line length from 200mm to 1700mm (increments of 25mm)
- Stainless steel screw fit banjo fittings in 20°, 45°, 70°, 90° and straight
- Hose assemblies pressure tested to 2000 PSI
- FMVSS 106 and DOT compliant

No
pre- alignment
required

Easy to install



Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

1. SELECT FITTINGS

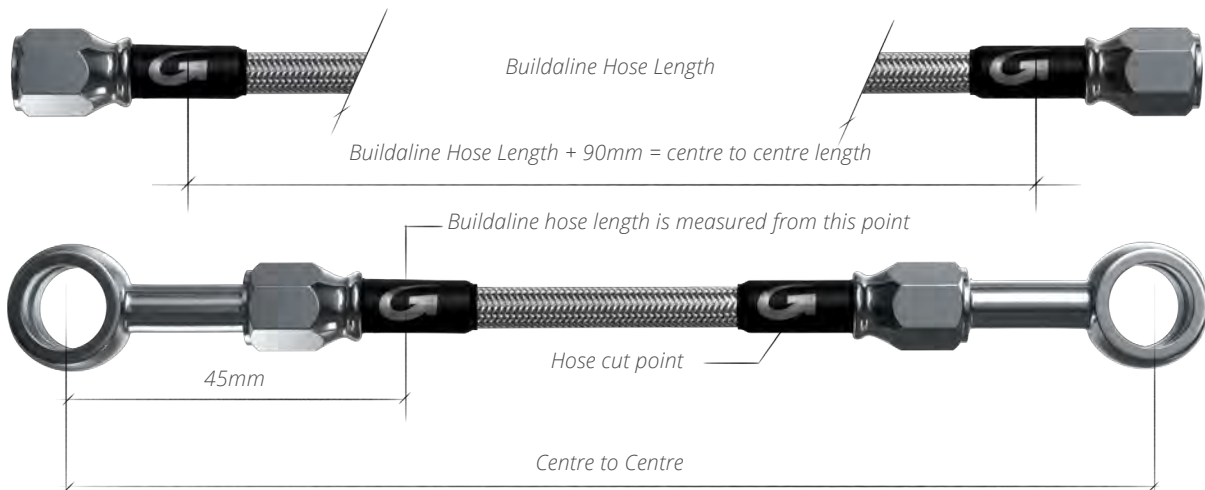
Select the appropriate fittings, adaptors and T-Pieces. *Fittings can be aligned on installation.*

**2. SELECT REQUIRED HOSE LENGTH**

Buildaline hoses are manufactured from 200mm to 1700mm (25mm increments). Measuring from the existing centre of banjo bolt to existing centre of banjo bolt, deleting 90mm to take account of the fittings at each end, will give you the correct Buildaline length to order.

**Custom lengths available in 25mm increments. Please contact us.*

**Remember to consider suspension travel when selecting hose lengths.*

**3. SELECT BOLTS****4. SELECT ANCILLARIES**

Select the appropriate fittings, adaptors and T-Pieces.

INSTALLATION GUIDE

1. Fit in place the banjo adaptors with the bolts and the correct amount of washers. Our recommended torque setting for this is 14 – 24 ft/lbs. This torque setting is advisory for the fittings, **NOT** for your master cylinder or calipers. **Care must be taken not to damage either your master cylinder or calipers.**

Please also ensure that you have chosen the correct threaded bolt for your application.

2. Locate the correct length hose. Route the hose safely, ensuring that it cannot be damaged by daily use of your bike, when the steering is at full lock. Use tube clamps if necessary (**SBKPLCC-05**) to help with the routing.

3. Screw the hose onto the banjo adaptors, making sure that it has been fully tightened.

Tip - As a rough guide, finger tight then a ¼ turn will give you 14 ft/lbs.

4. P-Clips (**SBKPLCC-05**) are available to ensure that your hoses are routed correctly.

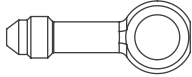
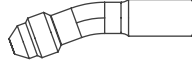
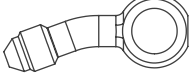
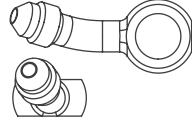
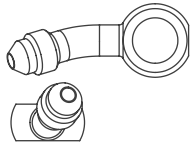
5. Bleed your brakes correctly and carefully following any special bleeding sequence as recommended in your bike manual. Use the manufactures recommended brake fluid. Goodridge recommend a high quality DOT 4 fluid

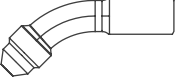
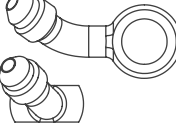
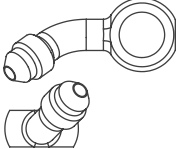
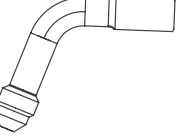
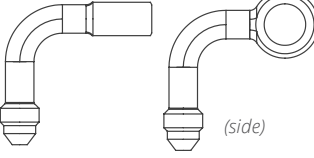
6. TEST FOR ANY LEAKS

7. After using your bike for the first time, we recommend that you give your brakes and fittings a thorough inspection to check for any leaks.

If any leaks are present, tighten your fittings and repeat step 5 once more.

1. BANJO FITTINGS

| Part No. | Description | Hole (mm) |
|-------------|--|-----------|
| SBK592-03C | <i>Straight</i> | 10 |
| |  | |
| SBK593-03C | 20° | 10 |
| |  | |
| SBK597-03C | 20° <i>(Side bend)</i> | 10 |
| |  | |
| SBK593R-03C | 20° <i>(Compound right)</i> | 10 |
| |  | |
| SBK593L-03C | 20° <i>(Compound left)</i> | 10 |
| |  | |

| Part No. | Description | Hole (mm) |
|-------------|--|-----------|
| SBK594-03C | 45° | 10 |
| |  | |
| SBK594R-03C | 45° <i>(Compound right)</i> | 10 |
| |  | |
| SBK594L-03C | 45° <i>(Compound left)</i> | 10 |
| |  | |
| SBK570-03C | 70° | 10 |
| |  | |
| SBK599-03C | 90° | 10 |
| SBK599S-03C | 90° <i>(side)</i> | 10 |
| |  | |

2. AVAILABLE HOSE LENGTHS

| Part No | Hose length | Part No | Hose length |
|-----------|-------------|-----------|-------------|
| SB30200CL | 200mm Hose | SB30750CL | 750mm Hose |
| SB30225CL | 225mm Hose | SB30775CL | 775mm Hose |
| SB30250CL | 250mm Hose | SB30800CL | 800mm Hose |
| SB30275CL | 275mm Hose | SB30825CL | 825mm Hose |
| SB30300CL | 300mm Hose | SB30850CL | 850mm Hose |
| SB30325CL | 325mm Hose | SB30875CL | 875mm Hose |
| SB30350CL | 350mm Hose | SB30900CL | 900mm Hose |
| SB30375CL | 375mm Hose | SB30925CL | 925mm Hose |
| SB30400CL | 400mm Hose | SB30950CL | 950mm Hose |
| SB30425CL | 425mm Hose | SB30975CL | 975mm Hose |
| SB30450CL | 450mm Hose | SB31000CL | 1000mm Hose |
| SB30475CL | 475mm Hose | SB31025CL | 1025mm Hose |
| SB30500CL | 500mm Hose | SB31050CL | 1050mm Hose |
| SB30525CL | 525mm Hose | SB31075CL | 1075mm Hose |
| SB30550CL | 550mm Hose | SB31100CL | 1100mm Hose |
| SB30575CL | 575mm Hose | SB31125CL | 1125mm Hose |
| SB30600CL | 600mm Hose | SB31150CL | 1150mm Hose |
| SB30625CL | 625mm Hose | SB31175CL | 1175mm Hose |
| SB30650CL | 650mm Hose | SB31200CL | 1200mm Hose |
| SB30675CL | 675mm Hose | SB31225CL | 1225mm Hose |
| SB30700CL | 700mm Hose | SB31250CL | 1250mm Hose |
| SB30725CL | 725mm Hose | SB31275CL | 1275mm Hose |

| Part No | Hose length |
|-----------|-------------|
| SB31300CL | 1300mm Hose |
| SB31325CL | 1325mm Hose |
| SB31350CL | 1350mm Hose |
| SB31375CL | 1375mm Hose |
| SB31400CL | 1400mm Hose |
| SB31425CL | 1425mm Hose |
| SB31450CL | 1450mm Hose |

| Part No | Hose length |
|-----------|--------------|
| SB31475CL | 11475mm Hose |
| SB31500CL | 1500mm Hose |
| SB31600CL | 1600mm Hose |
| SB31700CL | 1700mm Hose |







Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

3. BOLTS

| Part No | Description | |
|----------------|--|---|
| SBK992-03-31SC | Single banjo bolt M10 (Brembo) |  |
| SBK992-03-32C | Single banjo bolt M10 x 1.25 |  |
| SBK993-03-31SC | Double banjo bolt M10 (Brembo) |  |
| SBK993-03-32C | Double banjo bolt M10 x 1.25 |  |
| SBK992-31BNSC | Single banjo bolt M10 (Brembo) with bleed nipple |  |

4. ANCILLARIES

| Part No | Description | |
|--------------------------------|-----------------------------------|---|
| SBK305-03-31C SBK305-03-32C | M10 x 1.25 M10 x 1.00 |  |
| 5130-03C | 3/8 JIC T-Piece |  |
| SBKPLCC-05 | P-Clip |  |
| 44516 | Copper washer M10 (Pack of 10) |  |

MOTORCYCLE BOLT THREAD GUIDE

| Manufacturer | Caliper/ Year | Bolt Thread |
|--------------|--------------------------|---------------|
| APRILIA | All | M10x1.0 Short |
| BIMOTA | All | M10x1.0 Short |
| BMW | All | M10x1.0 Short |
| CAGIVA | All | M10x1.0 Short |
| DUCATI | All | M10x1.0 Short |
| HONDA | Standard | M10x1.25 |
| | Brembo | M10x1.0 Short |
| KAWASAKI | Standard | M10x1.25 |
| | Brembo | M10x1.0 Short |
| MOTO GUZZI | All | M10x1.0 Short |
| SUZUKI | Standard Pre 94 | M10x1.0 |
| | Standard 94-02 Front | M10x1.25 |
| | Standard 94-02 Rear | M10x1.0 |
| | Standard 02 on | M10x1.25 |
| TRIUMPH | Pre Hinckley | 3/8x24 |
| | Hinckley Models Standard | M10x1.25 |
| | Hinckley Models Brembo | M10x1.0 Short |
| YAMAHA | All | M10x1.25 |

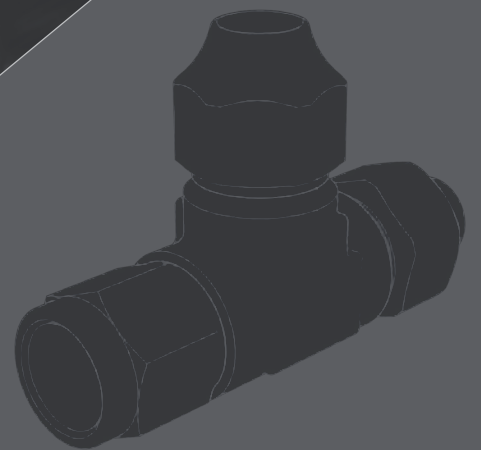
Please note: This is a guide only and some models may vary. If in doubt please contact your local Goodridge distributor for more information.



BTCC
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TOYOTA.

GOODRIDGE

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07

HARDLINE AND FITTINGS

GOODRIDGE

Hardline 836 Series

Goodridge supply a range of stainless steel and aluminium hard line to suit high pressure applications. Often used in combination with flexi-hose to make up a complete hose assembly.

Stainless steel hard line is available in AN-03, ideal for brake and clutch systems. Aluminium hard line is available in AN-04 and AN-06, ideal for air jack, fuel, oil and water systems.

A complete range of hard line fittings are also available to suit each individual application.

Please also see the 'adaptors' section for T-Pieces and adaptors.

Benefits:

- Uninterrupted flow
- Burst pressure up to 15228 PSI / 1050 BAR
- Bend radius to 15mm

Features:

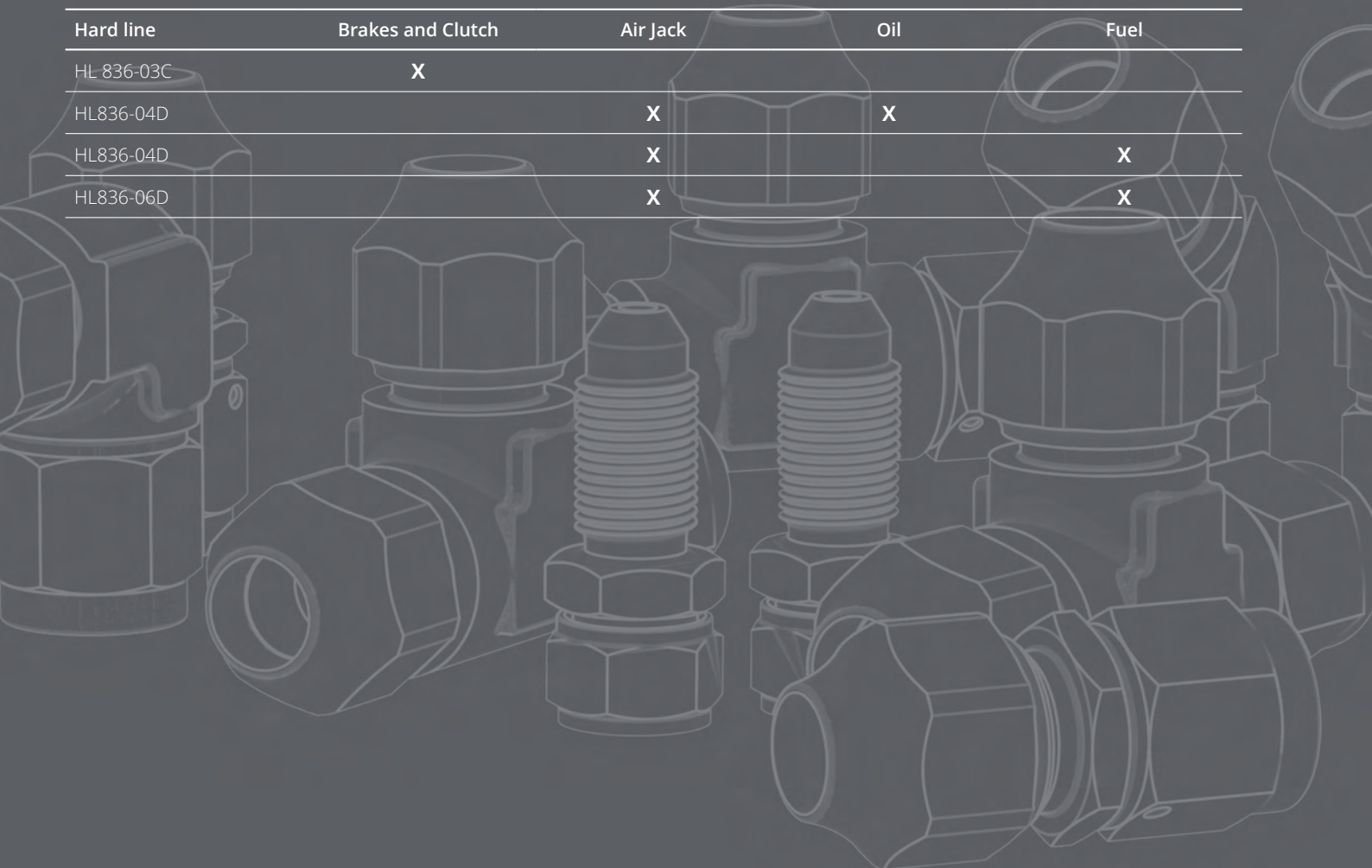
- Fitting range available
- Smooth bore
- Seamless

Contact us for
CNC formed
assemblies

Which hard line do I need?

836 hard line comparison chart:

| Hard line | Brakes and Clutch | Air Jack | Oil | Fuel |
|------------|-------------------|----------|-----|------|
| HL 836-03C | X | | | |
| HL836-04D | | X | X | |
| HL836-04D | | X | | X |
| HL836-06D | | X | | X |



Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

Fluid applications:

Brake and clutch systems.

Material:

Seamless Stainless/Mild Steel

Notes:

Supplied in 3m lengths

Contact us for:

CNC formed assemblies

Mild steel (B1213) 'Bundy tube' and
Cupronickel equivalents (K1213)**HL836 STAINLESS STEEL & MILD STEEL BUNDY TUBE**









Goodridge HL836 AN-03 Stainless steel hard line is ideal for brake and clutch applications.

Constructed of cold drawn seamless Stainless Steel, the hard line gives consistent flares and non-collapsing bends.

It is possible to flare the tube using a hand operated flaring tool.



Data in this table is for the hardline only

| Part No. | Dash  Size | Max Bore Size  mm / inches | Wall Thickness  mm / inches | Outer Diameter  mm / inches | Working Press  Bar / Psi | Burst Pres  Bar / Psi | Weight  Kg/M / Lb/Ft | Min Bend Rad  mm / inches |
|-----------|---|---|--|--|---|--|---|--|
| HL836-03C | -03 | 3,36 (0,133) | 0,72 (0,028) | 4,80 (0,189) | 350 (5076) | 1050 (15228) | 0,071 (0,048) | 15,00 (0,59) |
| B1213 | -03 | 3,36 (0,133) | 0,72 (0,028) | 4,80 (0,189) | 350 (5076) | 1050 (15228) | 0,071 (0,048) | 15,00 (0,59) |

Fluid applications:

Air jack, Fuel, Oil and Water.

Material:

Aluminium

Notes:Supplied in 4m lengths
(Straight or coiled)**Contact us for:**

CNC formed assemblies









HL836 ALUMINIUM

Goodridge HL836 AN-04 and AN-06 Aluminium hard line is the ultimate light weight hard line solution; ideal for air jack, fuel, oil and water applications.

The Hycot® tube is a corrosion resistant, light weight, precision drawn aluminium tube with a polyamide coating; providing strength and rigidity whilst allowing it to be formed to suit the installation. HL 836 fitting design does not require the tube to be flared, in addition a range of banjo, tee-piece, male and female fittings are available to complete the installation of complex systems, in tight environments.



Data in this table is for the hardline only

| Part No. | Dash  Size | Max Bore Size  mm / inches | Wall Thickness  mm / inches | Outer Diameter  mm / inches | Working Press  Bar / Psi | Burst Pres  Bar / Psi | Weight  Kg/M / Lb/Ft | Min Bend Rad  mm / inches |
|-----------|---|---|--|--|---|--|---|--|
| HL836-04D | -04 | 6,00 (0,236) | 1,00 (0,039) | 8,00 (0,315) | 95 (1378) | 290 (4206) | 0,059 (0,040) | 15,00 (0,59) |
| HL836-06D | -06 | 8,00 (0,315) | 1,00 (0,039) | 10,00 (0,394) | 95 (1378) | 290 (4206) | 0,095 (0,064) | 15,00 (0,59) |

Fluid applications:

Brake and clutch systems.

Material:









Cupro-Nickel

Notes:

Supplied in 7.2m lengths (coiled)

CUPRO-NICKEL TUBE

Data in this table is for the hardline only

| Part No. | Dash  Size | Max Bore Size  mm / inches | Wall Thickness  mm / inches | Outer Diameter  mm / inches | Working Press  Bar / Psi | Burst Pres  Bar / Psi | Weight  Kg/M / Lb/Ft | Min Bend Rad  mm / inches |
|----------|---|---|--|--|---|--|---|--|
| K1213 | -03 | 3,10 (0,122) | 1,65 (0,064) | 4,75 (0,188) | 322 (4670) | 965 (14000) | 0,071 (0,048) | 15,00 (0,59) |

HL836 Stainless steel AN-03 fittings

Goodridge HL836 AN-03 Stainless Steel hard line range includes bespoke fittings for brake and clutch applications.

N8000



Male tube nut

| Part No. | To suit | Thread | Mat |
|----------|-----------|------------------|-----|
| N8401 | HL836-03C | M10 x 1,00 SHORT | P |
| N8402 | HL836-03C | M10 x 1,00 LONG | P |
| N8412 | HL836-03C | M12 x 1,00 | P |
| N8426 | HL836-03C | 3/8 x 24 | P |
| N8426C | HL836-03C | 3/8 x 24 | C |
| N8462 | HL836-03C | 7/16 x 20 | P |

AN818



Female tube nut (to be used with 819)

| Part No. | To suit | Thread | Mat |
|-----------|-----------|------------|-----|
| 818-31C | HL836-03C | M10 x 1,00 | C |
| AN818-03C | HL836-03C | 3/8 x 24 | C |

AN819



Tube sleeve (to be used with 818)

| Part No. | To suit | Thread | Mat |
|-----------|-----------|--------|-----|
| AN819-03C | HL836-03C | - | C |

N1400



Female tube nut

| Part No. | To suit | Thread | Mat |
|----------|-----------|------------|-----|
| N1401 | HL836-03C | M10 x 1,00 | P |
| N1406 | HL836-03C | 3/8 x 24 | P |
| N1460 | HL836-03C | 7/16 x 20 | P |

Fitting type:

Tube nut

Compatible hard line:

HL 836 (AN-03)

Material:

P = Zinc plated carbon steel

C = Stainless Steel



Top Tip: Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

HL821

Straight female swivel

| Part No. | To suit | JIC/UNF | Mat |
|-------------|-----------|-----------|-----|
| HL821-0406D | HL836-04D | 9/16 x 18 | D |
| HL821-04D | HL836-04D | 7/16 x 20 | D |
| HL821-06D | HL836-06D | 9/16 x 18 | D |

HL822

45° female swivel

| Part No. | To suit | JIC/UNF | Mat |
|-----------|-----------|-----------|-----|
| HL822-06D | HL836-06D | 9/16 x 18 | D |

HL823

90° female swivel

| Part No. | To suit | JIC/UNF | Mat |
|-------------|-----------|-----------|-----|
| HL823-0406D | HL836-04D | 9/16 x 18 | D |
| HL823-04D | HL836-04D | 7/16 x 20 | D |
| HL823-06D | HL836-06D | 9/16 x 18 | D |

HL591

Straight banjo

| Part No. | To suit hose | Hole size | JIC/UNF | Mat |
|-----------|--------------|-----------|-----------|-----|
| HL591-06D | HL836-06D | 14,29 mm | 9/16 x 18 | D |

HL811

Coupler

| Part No. | To suit hose | Mat |
|-----------|--------------|-----|
| HL811-06D | HL836-06D | D |

HL814

Tee piece

| Part No. | To suit hose | Mat |
|-----------|--------------|-----|
| HL814-06D | HL836-06D | D |

HL836 Aluminium AN-04 & 06 JIC fittings

Goodridge HL836 AN-04 and AN-06 Aluminium hard line is accompanied by a range of bespoke fittings for air jack, fuel, oil and water applications.

Fitting type:

Reusable tube connectors

Compatible hard line:

HL 836 (AN-04 & AN-06)

Material:

D = Aluminium

HL836 Aluminium AN-04 & 06 JIC fittings

Goodridge HL836 AN-04 and AN-06 Aluminium hard line is accompanied by a range of bespoke fittings for air jack, fuel, oil and water applications.

HL824



Tee piece with female swivel on the run

| Part No. | To suit | JIC/UNF | Mat |
|-----------|-----------|-----------|-----|
| HL824-06D | HL836-06D | 9/16 x 18 | D |

HL854



Tee piece with female swivel on leg

| Part No. | To suit | JIC/UNF | Mat |
|-----------|-----------|-----------|-----|
| HL854-06D | HL836-06D | 9/16 x 18 | D |

HL831



Straight male

| Part No. | To suit | JIC/UNF | Mat |
|-------------|-----------|-----------|-----|
| HL831-0406D | HL836-04D | 9/16 x 18 | D |
| HL831-06D | HL836-06D | 9/16 x 18 | D |

HL841



Straight male bulkhead

| Part No. | To suit | JIC/UNF | Mat |
|-----------|-----------|-----------|-----|
| HL841-06D | HL836-06D | 9/16 x 18 | D |

HL837



45° male bulkhead

| Part No. | To suit | JIC/UNF | Mat |
|-----------|-----------|-----------|-----|
| HL837-06D | HL836-06D | 9/16 x 18 | D |

HL843



90° male bulkhead

| Part No. | To suit | JIC/UNF | Mat |
|-----------|-----------|-----------|-----|
| HL843-06D | HL836-06D | 9/16 x 18 | D |

Fitting type:

Resuable tube connectors

Compatible hard line:

HL 836 (AN-04 & AN-06)

Material:

D = Aluminium

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

1209

Replacement olive

| Part No. | To suit hose | Mat |
|----------|--------------|-----|
| 1209-04D | HL836_04D | D |
| 1209-06D | HL836_06D | D |

1210

Replacement socket

| Part No. | To suit hose | Mat |
|----------|--------------|-----|
| 1210-04D | HL836_04D | D |
| 1210-06D | HL836_06D | D |

AN924

Nut

| Part No. | JIC/UNF | Mat | Note |
|-------------|-----------|-----|-------|
| AN924-06D | 9/16 x 18 | D | - |
| AN924-06DBK | 9/16 x 18 | D | Black |

HL836 Aluminium AN-04 & 06 JIC fittings

Goodridge HL836 AN-04 and AN-06 Aluminium hard line is accompanied by a range of bespoke fittings for air jack, fuel, oil and water applications.

Fitting type:

Reusable tube connectors

Compatible hard line:

HL 836 (AN-04 & AN-06)

Material:

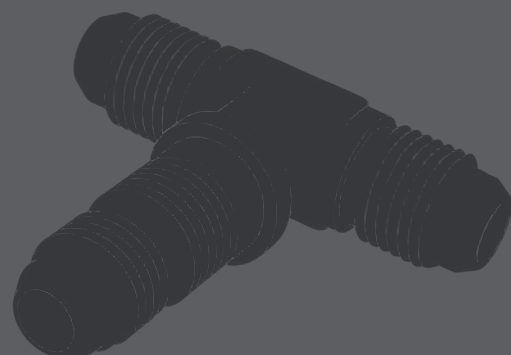
D = Aluminium



Top Tip: Please see assembly instructions in the 'Assembly instructions and Technical Information' section at the back of the catalogue.

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08

ADAPTORS

GOODRIDGE

Adaptors

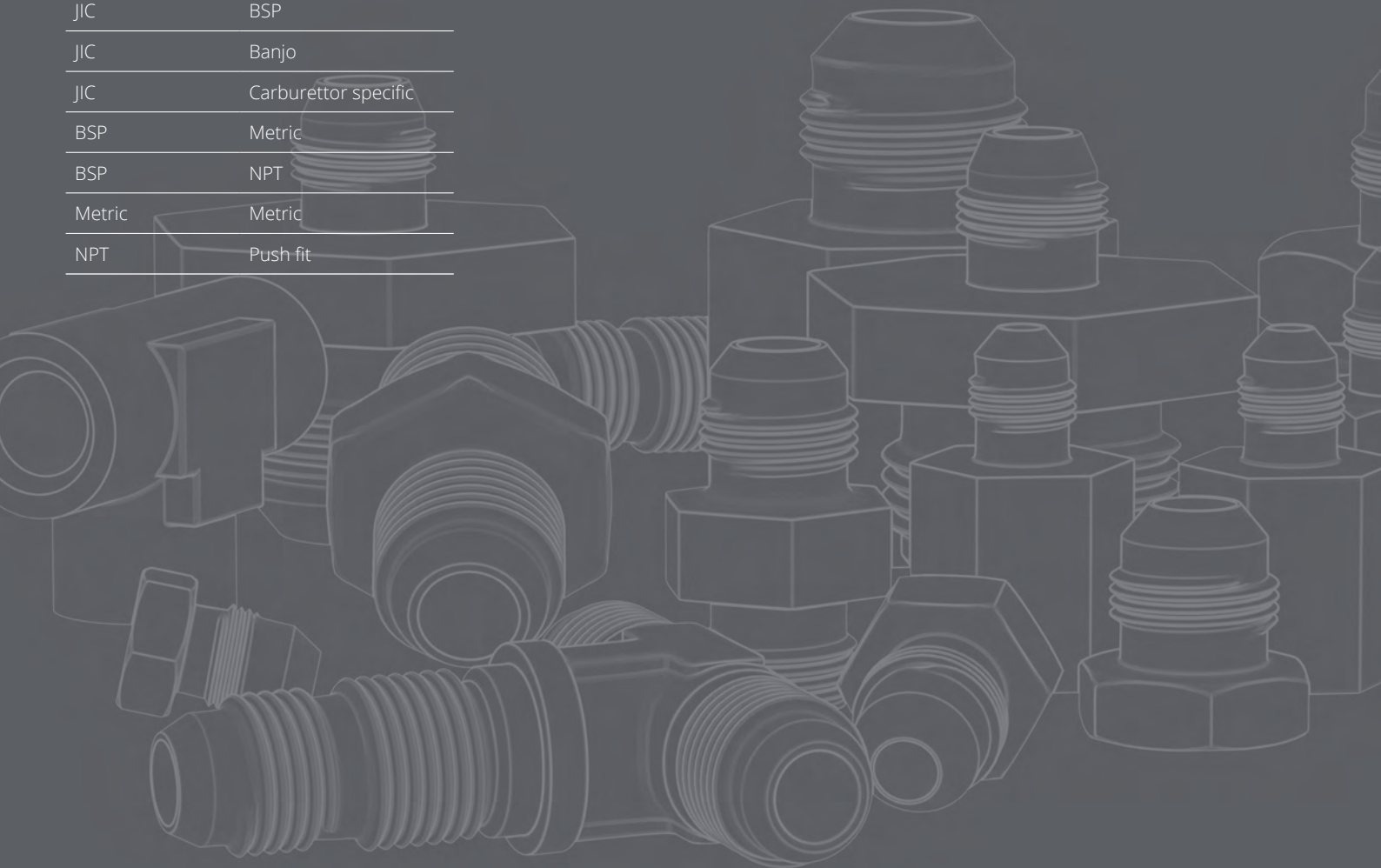
Whether you are building a racing car/bike or custom project, Goodridge supply adaptors, plugs and T-Pieces to suit a wide range of applications.

In addition, 'special' adaptors including carburettor specific, fuel sensor take off's, power steering and pressure switch adaptors are available.

At the end of this section you will find brake adaptors – used to convert a wide variety of OEM braking hardware to JIC/ UNF threads, ready to accept stainless steel braided brake lines.

Adaptors are available in the following configurations:

| Thread A | Thread B |
|----------|----------------------|
| JIC | JIC |
| JIC | NPT |
| JIC | Metric |
| JIC | BSP |
| JIC | Banjo |
| JIC | Carburettor specific |
| BSP | Metric |
| BSP | NPT |
| Metric | Metric |
| NPT | Push fit |



Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

815

Equal male

| Part No. | JIC/UNF | Mat | Note |
|----------|-------------|-----|------|
| 815-02C | 5/16 x 24 | C | - |
| 815-03C | 3/8 x 24 | C | - |
| 815-03CH | 3/8 x 24 | CH | - |
| 815-03P | 3/8 x 24 | P | - |
| 815-04C | 7/16 x 20 | C | - |
| 815-04P | 7/16 x 20 | P | - |
| 815-06P | 9/16 x 18 | P | - |
| 815-08P | 3/4 x 16 | P | - |
| 815-10P | 7/8 x 14 | P | - |
| 815-12P | 1 1/16 x 12 | P | - |
| 815-16P | 1 5/16 x 12 | P | - |

AN815

| | | | |
|-------------|-------------|---|-------|
| AN815-02D | 5/16 x 24 | D | - |
| AN815-03D | 3/8 x 24 | D | - |
| AN815-04D | 7/16 x 20 | D | - |
| AN815-04DBK | 7/16 x 20 | D | Black |
| AN815-05D | 1/2 x 20 | D | - |
| AN815-06D | 9/16 x 18 | D | - |
| AN815-06DBK | 9/16 x 18 | D | Black |
| AN815-08D | 3/4 x 16 | D | - |
| AN815-08DBK | 3/4 x 16 | D | Black |
| AN815-10D | 7/8 x 14 | D | - |
| AN815-10DBK | 7/8 x 14 | D | Black |
| AN815-12D | 1 1/16 x 12 | D | - |
| AN815-12DBK | 1 1/16 x 12 | D | Black |
| AN815-16D | 1 5/16 x 12 | D | - |
| AN815-16DBK | 1 5/16 x 12 | D | Black |

815V

Equal male convex-concave

| Part No. | JIC/UNF | Mat | Note |
|-----------|----------|-----|------|
| 815-03VC | 3/8 x 24 | C | - |
| 815-03VCH | 3/8 x 24 | CH | - |
| 815-03VP | 3/8 x 24 | P | - |

AN821

90° elbow male

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| AN821-03C | 3/8 x 24 | C | - |
| AN821-03D | 3/8 x 24 | D | - |
| AN821-04D | 7/16 x 20 | D | - |
| AN821-06D | 9/16 x 18 | D | - |
| AN821-06DBK | 9/16 x 18 | D | Black |
| AN821-08D | 3/4 x 16 | D | - |
| AN821-08DBK | 3/4 x 16 | D | Black |
| AN821-10D | 7/8 x 14 | D | - |
| AN821-12D | 1 1/16 x 12 | D | - |
| AN821-16D | 1 5/16 x 12 | D | - |

JIC to JIC equal thread Adaptors**Fitting type:**

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

Please note:

When ordering parts available in steel or Stainless Steel, please remove the 'AN' prefix.

Example part no:

AN804-03D = Aluminium

804-03C = Stainless Steel

JIC to JIC equal thread Adaptors

AN824



Male tee

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| AN824-03C | 3/8 x 24 | C | - |
| AN824-03D | 3/8 x 24 | D | - |
| AN824-04C | 7/16 x 20 | C | - |
| AN824-04D | 7/16 x 20 | D | - |
| AN824-04DBK | 7/16 x 20 | D | Black |
| AN824-06D | 9/16 x 18 | D | - |
| AN824-06DBK | 9/16 x 18 | D | Black |
| AN824-08D | 3/4 x 16 | D | - |
| AN824-08DBK | 3/4 x 16 | D | Black |
| AN824-10D | 7/8 x 14 | D | - |
| AN824-10DBK | 7/8 x 14 | D | Black |
| AN824-12D | 1 1/16 x 12 | D | - |
| AN824-12DBK | 1 1/16 x 12 | D | Black |
| AN824-16D | 1 5/16 x 12 | D | - |

AN827



Male 4 way

| Part No. | JIC/UNF | Mat | Note |
|-----------|-----------|-----|------|
| AN827-04D | 7/16 x 18 | D | - |
| AN827-06D | 9/16 x 18 | D | - |

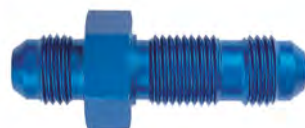
832



Male bulkhead

| Part No. | JIC/UNF | Mat | Note |
|----------|-----------|-----|------|
| 832-03C | 3/8 x 24 | C | - |
| 832-03P | 3/8 x 24 | P | - |
| 832-04P | 7/16 x 20 | P | - |
| 832-06P | 9/16 x 18 | P | - |

AN832



| | | | |
|-------------|-------------|---|-------|
| AN832-03D | 3/8 x 24 | D | - |
| AN832-04C | 7/16 x 20 | C | - |
| AN832-04D | 7/16 x 20 | D | - |
| AN832-04DBK | 7/16 x 20 | D | Black |
| AN832-06D | 9/16 x 18 | D | - |
| AN832-06DBK | 9/16 x 18 | D | Black |
| AN832-08D | 3/4 x 16 | D | - |
| AN832-08DBK | 3/4 x 16 | D | Black |
| AN832-10D | 7/8 x 14 | D | - |
| AN832-10DBK | 7/8 x 14 | D | Black |
| AN832-12D | 1 1/16 x 12 | D | - |
| AN832-12DBK | 1 1/16 x 12 | D | Black |
| AN832-16D | 1 5/16 x 12 | D | - |
| AN832-16DBK | 1 5/16 x 12 | D | Black |

Fitting type:

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

Please note:

When ordering parts available in steel or Stainless Steel, please remove the 'AN' prefix.

Example part no:

AN804-03D = Aluminium
804-03C = Stainless Steel

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

AN837

45° male bulkhead

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| AN837-03C | 3/8 x 24 | C | - |
| AN837-03D | 3/8 x 24 | D | - |
| AN837-04D | 7/16 x 20 | D | - |
| AN837-04DBK | 7/16 x 20 | D | Black |
| AN837-06D | 9/16 x 18 | D | - |
| AN837-06DBK | 9/16 x 18 | D | Black |
| AN837-08D | 3/4 x 16 | D | - |
| AN837-10D | 7/8 x 14 | D | - |
| AN837-12D | 1 1/16 x 12 | D | - |
| AN837-16D | 1 5/16 x 12 | D | - |

AN833

90° male bulkhead

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| AN833-03C | 3/8 x 24 | C | - |
| AN833-03D | 3/8 x 24 | D | - |
| AN833-04C | 7/16 x 20 | C | - |
| AN833-04D | 7/16 x 20 | D | - |
| AN833-04DBK | 7/16 x 20 | D | Black |
| AN833-06D | 9/16 x 18 | D | - |
| AN833-06DBK | 9/16 x 18 | D | Black |
| AN833-08D | 3/4 x 16 | D | - |
| AN833-08DBK | 3/4 x 16 | D | Black |
| AN833-10D | 7/8 x 14 | D | - |
| AN833-12D | 1 1/16 x 12 | D | - |
| AN833-12DBK | 1 1/16 x 12 | D | Black |
| AN833-16D | 1 5/16 x 12 | D | - |

AN804

Bulkhead tee on run

| Part No. | JIC/UNF | Mat | Note |
|-----------|-----------|-----|------|
| AN804-03D | 3/8 x 24 | D | - |
| AN804-04D | 7/16 x 20 | D | - |
| AN804-06D | 9/16 x 18 | D | - |
| AN804-08D | 3/4 x 16 | D | - |



Top Tip: Please see thread guide and Technical Information section at the back of the catalogue.

JIC to JIC equal thread Adaptors

Fitting type:

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

Please note:

When ordering parts available in steel or Stainless Steel, please remove the 'AN' prefix.

Example part no:

AN804-03D = Aluminium

804-03C = Stainless Steel

JIC to JIC equal thread Adaptors

AN834



Male bulkhead tee

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| AN834-03C | 3/8 x 24 | C | - |
| AN834-03D | 3/8 x 24 | D | - |
| AN834-04D | 7/16 x 20 | D | - |
| AN834-06D | 9/16 x 18 | D | - |
| AN834-06DBK | 9/16 x 18 | D | Black |
| AN834-08D | 3/4 x 16 | D | - |
| AN834-12D | 1 1/16 x 12 | D | - |

AN938



Female tee

| Part No. | JIC/UNF | Mat | Note |
|-----------|-------------|-----|------|
| AN938-04D | 7/16 x 20 | D | - |
| AN938-06D | 9/16 x 18 | D | - |
| AN938-08D | 3/4 x 16 | D | - |
| AN938-10D | 7/8 x 14 | D | - |
| AN938-12D | 1 1/16 x 12 | D | - |

AN806



Plug

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| AN806-02D | 5/16 x 24 | D | - |
| AN806-03D | 3/8 x 24 | D | - |
| AN806-04D | 7/16 x 20 | D | - |
| AN806-04DBK | 7/16 x 20 | D | Black |
| AN806-06D | 9/16 x 18 | D | - |
| AN806-06DBK | 9/16 x 18 | D | Black |
| AN806-08D | 3/4 x 16 | D | - |
| AN806-08DBK | 3/4 x 16 | D | Black |
| AN806-10D | 7/8 x 14 | D | - |
| AN806-10DBK | 7/8 x 14 | D | Black |
| AN806-12D | 1 1/16 x 12 | D | - |
| AN806-12DBK | 1 1/16 x 12 | D | Black |
| AN806-16D | 1 5/16 x 12 | D | - |
| AN806-16DBK | 1 5/16 x 12 | D | Black |

AN814



Port plug

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| AN814-03D | 3/8 x 24 | D | - |
| AN814-04D | 7/16 x 20 | D | - |
| AN814-04DBK | 7/16 x 20 | D | Black |
| AN814-06D | 9/16 x 18 | D | - |
| AN814-06DBK | 9/16 x 18 | D | Black |
| AN814-08D | 3/4 x 16 | D | - |
| AN814-08DBK | 3/4 x 16 | D | Black |
| AN814-10D | 7/8 x 14 | D | - |
| AN814-10DBK | 7/8 x 14 | D | Black |
| AN814-12D | 1 1/16 x 12 | D | - |

Fitting type:

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

Please note:

When ordering parts available in steel or Stainless Steel, please remove the 'AN' prefix.

Example part no:

AN804-03D = Aluminium
804-03C = Stainless Steel

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

AN814SD

Port plug with socket hex (o ring)

| Part No. | JIC/UNF | Mat | Note |
|------------|-----------|-----|------|
| AN814-03SD | 3/8 x 24 | D | - |
| AN814-04SD | 7/16 x 20 | D | - |
| AN814-06SD | 9/16 x 18 | D | - |

AN818

Tube nut

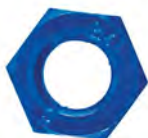
| Part No. | JIC/UNF | Mat | Note |
|-----------|-----------|-----|------|
| AN818-03D | 3/8 x 24 | D | - |
| AN818-04D | 7/16 x 20 | D | - |
| AN818-06D | 9/16 x 18 | D | - |

(see sleeve on page 130)

AN929

Cap

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| AN929-02D | 5/16 x 24 | D | - |
| AN929-03D | 3/8 x 24 | D | - |
| AN929-04D | 7/16 x 20 | D | - |
| AN929-04DBK | 7/16 x 20 | D | Black |
| AN929-05D | 1/2 x 20 | D | - |
| AN929-06D | 9/16 x 18 | D | - |
| AN929-06DBK | 9/16 x 18 | D | Black |
| AN929-08D | 3/4 x 16 | D | - |
| AN929-08DBK | 3/4 x 16 | D | Black |
| AN929-10D | 7/8 x 14 | D | - |
| AN929-10DBK | 7/8 x 14 | D | Black |
| AN929-12D | 1 1/16 x 12 | D | - |
| AN929-12DBK | 1 1/16 x 12 | D | Black |
| AN929-16D | 1 5/16 x 12 | D | - |
| AN929-16DBK | 1 5/16 x 12 | D | Black |
| AN929-20D | 1 5/8 x 12 | D | - |
| AN929-20DBK | 1 5/8 x 12 | D | Black |

AN924

Nut

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| AN924-03D | 3/8 x 24 | D | - |
| AN924-04C | 7/16 x 20 | C | - |
| AN924-04D | 7/16 x 20 | D | - |
| AN924-04DBK | 7/16 x 20 | D | Black |
| AN924-06D | 9/16 x 18 | D | - |
| AN924-06DBK | 9/16 x 18 | D | Black |
| AN924-08D | 3/4 x 16 | D | - |
| AN924-08DBK | 3/4 x 16 | D | Black |
| AN924-10D | 7/8 x 14 | D | - |
| AN924-10DBK | 7/8 x 14 | D | Black |
| AN924-12D | 1 1/16 x 12 | D | - |
| AN924-12DBK | 1 1/16 x 12 | D | Black |
| AN924-16D | 1 5/16 x 12 | D | - |
| AN924-16DBK | 1 5/16 x 12 | D | Black |

JIC to JIC equal thread Adaptors**Fitting type:**

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

Please note:

When ordering parts available in steel or Stainless Steel, please remove the 'AN' prefix.

Example part no:AN804-03D = Aluminium
804-03C = Stainless Steel

JIC to JIC equal thread Adaptors

AN819



Tube sleeve

| Part No. | Mat | Note |
|-----------|-----|-----------------------|
| AN819-03D | D | For use with AN818-03 |
| AN819-04D | D | For use with AN818-04 |
| AN819-06D | D | For use with AN818-06 |

AN971



Male weld flange adaptor

| Part No. | JIC/UNF | Mat | Note |
|-----------|-------------|-----|------|
| AN971-04D | 7/16 x 20 | D | - |
| AN971-06D | 9/16 x 18 | D | - |
| AN971-08D | 3/4 x 16 | D | - |
| AN971-10D | 7/8 x 14 | D | - |
| AN971-12D | 1 1/16 x 12 | D | - |
| AN971-16D | 1 5/16 x 12 | D | - |
| AN971-20D | 1 5/8 x 12 | D | - |

AN871



Female weld a adaptor

| Part No. | JIC/UNF | Mat | Note |
|-----------|-------------|-----|------|
| AN871-04D | 7/16 x 20 | D | - |
| AN871-06D | 9/16 x 18 | D | - |
| AN871-08D | 3/4 x 16 | D | - |
| AN871-10D | 7/8 x 14 | D | - |
| AN871-12D | 1 1/16 x 12 | D | - |

Fitting type:

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

Please note:

When ordering parts available in steel or Stainless Steel, please remove the 'AN' prefix.

Example part no:

AN804-03D = Aluminium
804-03C = Stainless Steel



Top Tip: Please see thread guide and Technical Information section at the back of the catalogue.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

919

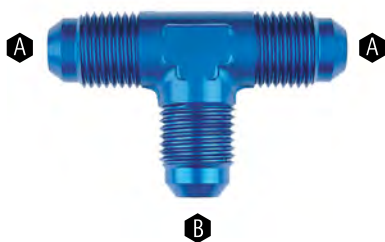
Male to male

| Part No. | JIC/UNF A | JIC/UNF B | Mat |
|------------|-------------|-----------|-----|
| 919-04-03C | 7/16 x 20 | 3/8 x 24 | C |
| 919-04-03P | 7/16 x 20 | 3/8 x 24 | P |
| 919-04-44P | 7/16 x 20 | 7/16 x 24 | P |
| 919-06-03D | 9/16 x 18 | 3/8 x 24 | D |
| 919-06-04P | 9/16 x 18 | 7/16 x 20 | P |
| 919-08-06P | 3/4 x 16 | 9/16 x 18 | P |
| 919-10-08P | 7/8 x 14 | 3/4 x 16 | P |
| 919-10-06P | 7/8 x 14 | 9/16 x 18 | |
| 919-12-10P | 1 1/16 x 12 | 7/8 x 14 | P |

AN919

Male to male

| Part No. | JIC/UNF A | JIC/UNF B | Mat | Note |
|-------------|-------------|-------------|-----|-------|
| AN919-01D | 5/16 x 24 | 7/16 x 20 | D | - |
| AN919-02D | 3/8 x 24 | 7/16 x 20 | D | - |
| AN919-02DBK | 3/8 x 24 | 7/16 x 20 | D | Black |
| AN919-03D | 7/16 x 20 | 1/2 x 20 | D | - |
| AN919-06D | 9/16 x 18 | 7/16 x 20 | D | - |
| AN919-06DBK | 9/16 x 18 | 7/16 x 20 | D | Black |
| AN919-07D | 9/16 x 18 | 1/2 x 20 | D | - |
| AN919-0D | 5/16 x 24 | 3/8 x 24 | D | - |
| AN919-10D | 3/4 x 16 | 7/16 x 20 | D | - |
| AN919-10DBK | 3/4 x 16 | 7/16 x 20 | D | Black |
| AN919-12D | 9/16 x 18 | 3/4 x 16 | D | - |
| AN919-12DBK | 9/16 x 18 | 3/4 x 16 | D | Black |
| AN919-14D | 7/8 x 14 | 9/16 x 18 | D | - |
| AN919-14DBK | 7/8 x 14 | 9/16 x 18 | D | Black |
| AN919-15D | 7/8 x 14 | 3/4 x 16 | D | - |
| AN919-18D | 1 1/16 x 12 | 9/16 x 18 | D | - |
| AN919-19D | 1 1/16 x 12 | 3/4 x 16 | D | - |
| AN919-19DBK | 1 1/16 x 12 | 3/4 x 16 | D | Black |
| AN919-20D | 1 1/16 x 12 | 7/8 x 14 | D | - |
| AN919-20DBK | 1 1/16 x 12 | 7/8 x 14 | D | Black |
| AN919-22D | 1 5/16 x 12 | 7/8 x 14 | D | - |
| AN919-23D | 1 5/16 x 12 | 1 1/16 x 12 | D | - |
| AN919-23DBK | 1 5/16 x 12 | 1 1/16 x 12 | D | Black |

AN824U

Tee with unequal leg

| Part No. | JIC/UNF A | JIC/UNF B | Mat | Note |
|-----------------|-----------|-----------|-----|------|
| AN824-06-06-08D | 9/16 x 18 | 3/4 x 16 | D | - |

JIC to JIC unequal thread Adaptors**Fitting type:**

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

JIC male to female Adaptors

AN950



Female to male adaptor (JIC seats) reducer

| Part No. | JIC/UNF A | JIC/UNF B | Mat | Note |
|----------------|-------------|-------------|-----|-------|
| AN950-04-03D | 7/16 x 20 | 3/8 x 24 | D | - |
| AN950-06-03D | 9/16 x 18 | 3/8 x 24 | D | - |
| AN950-06-04D | 9/16 x 18 | 7/16 x 20 | D | - |
| AN950-08-04D | 3/4 x 16 | 7/16 x 20 | D | - |
| AN950-08-06D | 3/4 x 16 | 9/16 x 18 | D | - |
| AN950-08-06DBK | 3/4 x 16 | 9/16 x 18 | D | Black |
| AN950-10-06D | 7/8 x 14 | 9/16 x 18 | D | - |
| AN950-10-06DBK | 7/8 x 14 | 9/16 x 18 | D | Black |
| AN950-10-08D | 7/8 x 14 | 3/4 x 16 | D | - |
| AN950-10-08DBK | 7/8 x 14 | 3/4 x 16 | D | Black |
| AN950-12-08D | 1 1/16 x 12 | 3/4 x 16 | D | - |
| AN950-12-08DBK | 1 1/16 x 12 | 3/4 x 16 | D | Black |
| AN950-12-10D | 1 1/16 x 12 | 7/8 x 14 | D | - |
| AN950-12-10DBK | 1 1/16 x 12 | 7/8 x 14 | D | Black |
| AN950-16-12D | 1 5/16 x 12 | 1 1/16 x 12 | D | - |

AN951



Female to male adaptor (JIC seats) expander

| Part No. | JIC/UNF A | JIC/UNF B | Mat | Note |
|----------------|-------------|-------------|-----|-------|
| AN951-03-04C | 3/8 x 24 | 7/16 x 20 | C | - |
| AN951-03-04D | 3/8 x 24 | 7/16 x 20 | D | - |
| AN951-03-04DBK | 3/8 x 24 | 7/16 x 20 | D | Black |
| AN951-04-06D | 7/16 x 20 | 9/16 x 18 | D | - |
| AN951-04-06DBK | 7/16 x 20 | 9/16 x 18 | D | Black |
| AN951-06-08D | 9/16 x 18 | 3/4 x 16 | D | - |
| AN951-06-08DBK | 9/16 x 18 | 3/4 x 16 | D | Black |
| AN951-08-10D | 3/4 x 16 | 7/8 x 14 | D | - |
| AN951-08-10DBK | 3/4 x 16 | 7/8 x 14 | D | Black |
| AN951-10-12D | 7/8 x 14 | 1 1/16 x 12 | D | - |
| AN951-10-12DBK | 7/8 x 14 | 1 1/16 x 12 | D | Black |
| AN951-12-16D | 1 1/16 x 12 | 1 5/16 x 12 | D | - |

Fitting type:

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)



Top Tip: Please see thread guide and Technical Information section at the back of the catalogue.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

CPL

Femal swivel adaptor coupling

| Part No. | JIC/UNF | Mat | Note |
|-----------|-------------|-----|-------|
| CPL-03C | 3/8 x 24 | C | - |
| CPL-03D | 3/8 x 24 | D | - |
| CPL-04C | 7/16 x 20 | C | - |
| CPL-04D | 7/16 x 20 | D | - |
| CPL-04DBK | 7/16 x 20 | D | Black |
| CPL-06D | 9/16 x 18 | D | - |
| CPL-06DBK | 9/16 x 18 | D | Black |
| CPL-08D | 3/4 x 16 | D | - |
| CPL-08DBK | 3/4 x 16 | D | Black |
| CPL-10D | 7/8 x 14 | D | - |
| CPL-10DBK | 7/8 x 14 | D | Black |
| CPL-12D | 1 1/16 x 12 | D | - |
| CPL-12DBK | 1 1/16 x 12 | D | Black |
| CPL-16D | 1 5/16 x 12 | D | - |
| CPL-16DBK | 1 5/16 x 12 | D | Black |

CPL-823

45° forged male to swivel female adaptor

| Part No. | JIC/UNF | Mat | Note |
|---------------|-------------|-----|-------|
| CPL-823-03C | 3/8 x 24 | C | - |
| CPL-823-03D | 3/8 x 24 | D | - |
| CPL-823-04D | 7/16 x 20 | D | - |
| CPL-823-06D | 9/16 x 18 | D | - |
| CPL-823-06DBK | 9/16 x 18 | D | Black |
| CPL-823-08D | 3/4 x 16 | D | - |
| CPL-823-10D | 7/8 x 14 | D | - |
| CPL-823-12D | 1 1/16 x 12 | D | - |

CPL-824

Tee male thread on run swivel female on leg adaptor

| Part No. | JIC/UNF | Mat | Note |
|---------------|-------------|-----|-------|
| CPL-824-03D | 3/8 x 24 | D | - |
| CPL-824-04D | 7/16 x 20 | D | - |
| CPL-824-04DBK | 7/16 x 20 | D | Black |
| CPL-824-06D | 9/16 x 18 | D | - |
| CPL-824-06DBK | 9/16 x 18 | D | Black |
| CPL-824-08D | 3/4 x 16 | D | - |
| CPL-824-08DBK | 3/4 x 16 | D | Black |
| CPL-824-10D | 7/8 x 14 | D | - |
| CPL-824-12D | 1 1/16 x 12 | D | - |
| CPL-824-12DBK | 1 1/16 x 12 | D | Black |

Special Adaptors

(inc modified AN parts for motorsport requirements)

Fitting type:

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

Special Adaptors

(inc modified AN parts for motorsport requirements)

CPL-826



Tee swivel forged female on run adaptor

| Part No. | JIC/UNF | Mat | Note |
|---------------|-------------|-----|-------|
| CPL-826-03D | 3/8 x 24 | D | - |
| CPL-826-04D | 7/16 x 20 | D | - |
| CPL-826-04DBK | 7/16 x 20 | D | Black |
| CPL-826-06D | 9/16 x 18 | D | - |
| CPL-826-06DBK | 9/16 x 18 | D | Black |
| CPL-826-08D | 3/4 x 16 | D | - |
| CPL-826-10D | 7/8 x 14 | D | - |
| CPL-826-10DBK | 7/8 x 14 | D | Black |
| CPL-826-12D | 1 1/16 x 12 | D | - |
| CPL-826-12DBK | 1 1/16 x 12 | D | Black |
| CPL-826-16D | 1 5/16 x 12 | D | - |

CPL-903/912



90° forged male to female swivel adaptor

| Part No. | JIC/UNF | Mat | Note |
|------------|-------------|-----|-------|
| CPL-903C | 3/8 x 24 | C | - |
| CPL-903D | 3/8 x 24 | D | - |
| CPL-904D | 7/16 x 20 | D | - |
| CPL-904DBK | 7/16 x 20 | D | Black |
| CPL-906D | 9/16 x 18 | D | - |
| CPL-906DBK | 9/16 x 18 | D | Black |
| CPL-908D | 3/4 x 16 | D | - |
| CPL-908DBK | 3/4 x 16 | D | Black |
| CPL-910D | 7/8 x 14 | D | - |
| CPL-912D | 1 1/16 x 12 | D | - |

CPL-910



90° swept female to female swivel adaptor

| Part No. | JIC/UNF | Mat | Note |
|------------|-------------|-----|-------|
| CPL-9104 | 7/16 x 20 | D | - |
| CPL-9104BK | 7/16 x 20 | D | Black |
| CPL-9106 | 9/16 x 18 | D | - |
| CPL-9106BK | 9/16 x 18 | D | Black |
| CPL-9108 | 3/4 x 16 | D | - |
| CPL-9108BK | 3/4 x 16 | D | Black |
| CPL-9110 | 7/8 x 14 | D | - |
| CPL-9110BK | 7/8 x 14 | D | Black |
| CPL-9112 | 1 1/16 x 12 | D | - |
| CPL-9116 | 1 5/16 x 12 | D | - |

CPL-900



90° forged female to female swivel adaptor

| Part No. | JIC/UNF | Mat | Note |
|-------------|-------------|-----|-------|
| CPL-9004 | 7/16 x 20 | D | - |
| CPL-9004BK | 7/16 x 20 | D | Black |
| CPL-9006 | 9/16 x 18 | D | - |
| CPL-9006DBK | 9/16 x 18 | D | Black |
| CPL-9008 | 3/4 x 16 | D | - |
| CPL-9008BK | 3/4 x 16 | D | Black |
| CPL-9010 | 7/8 x 14 | D | - |
| CPL-9012 | 1 1/16 x 12 | D | - |

Fitting type:

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

816

Straight male JIC to straight male NPT adaptor

| Part No. | JIC/UNFA | NPT B | Mat | Note |
|------------|-----------|---------------|-----|------|
| 816-03C | 3/8 x 24 | NPT 1/8" x 27 | C | |
| 816-03CH | 3/8 x 24 | NPT 1/8" x 27 | CH | |
| 816-03P | 3/8 x 24 | NPT 1/8" x 27 | P | |
| 816-03-04P | 3/8 x 24 | NPT 1/4" x 18 | P | |
| 816-04-04P | 7/16 x 20 | NPT 1/4" x 18 | P | |
| 816-04P | 7/16 x 20 | NPT 1/8" x 27 | P | |

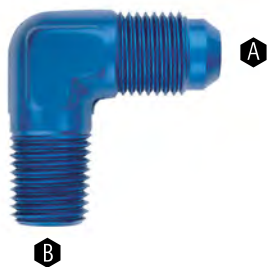
AN816

| | | | | |
|----------------|-------------|----------------|---|-------|
| AN816-03-04D | 3/8 x 24 | NPT 1/4" x 18 | D | Blue |
| AN816-03D | 3/8 x 24 | NPT 1/8" x 27 | D | Blue |
| AN816-04-04D | 7/16 x 20 | NPT 1/4" x 18 | D | Blue |
| AN816-04-04DBK | 7/16 x 20 | NPT 1/4" x 18 | D | Black |
| AN816-04-06D | 7/16 x 20 | NPT 3/8" x 18 | D | Blue |
| AN816-04C | 7/16 x 20 | NPT 1/8" x 27 | C | |
| AN816-04D | 7/16 x 20 | NPT 1/8" x 27 | D | Blue |
| AN816-04DBK | 7/16 x 20 | NPT 1/8" x 27 | D | Black |
| AN816-06-02D | 9/16 x 18 | NPT 1/8" x 27 | D | Blue |
| AN816-06-02DBK | 9/16 x 18 | NPT 1/8" x 27 | D | Black |
| AN816-06-06D | 9/16 x 18 | NPT 3/8" x 18 | D | Blue |
| AN816-06-06DBK | 9/16 x 18 | NPT 3/8" x 18 | D | Black |
| AN816-06-08D | 9/16 x 18 | NPT 1/2" x 14 | D | Blue |
| AN816-06-08DBK | 9/16 x 18 | NPT 1/2" x 14 | D | Black |
| AN816-06D | 9/16 x 18 | NPT 1/4" x 18 | D | Blue |
| AN816-06DBK | 9/16 x 18 | NPT 1/4" x 18 | D | Black |
| AN816-07D | 3/4 x 16 | NPT 1/4" x 18 | D | Blue |
| AN816-07DBK | 3/4 x 16 | NPT 1/4" x 18 | D | Black |
| AN816-08-08D | 3/4 x 16 | NPT 1/2" x 14 | D | Blue |
| AN816-08-08DBK | 3/4 x 16 | NPT 1/2" x 14 | D | Black |
| AN816-08-12D | 3/4 x 16 | NPT 3/4" x 14 | D | Blue |
| AN816-08-12DBK | 3/4 x 16 | NPT 3/4" x 14 | D | Black |
| AN816-08D | 3/4 x 16 | NPT 3/8" x 18 | D | Blue |
| AN816-08DBK | 3/4 x 16 | NPT 3/8" x 18 | D | Black |
| AN816-10-06D | 7/8 x 14 | NPT 3/8" x 18 | D | Blue |
| AN816-10-06DBK | 7/8 x 14 | NPT 3/8" x 18 | D | Black |
| AN816-10-12D | 7/8 x 14 | NPT 3/4" x 14 | D | Blue |
| AN816-10D | 7/8 x 14 | NPT 1/2" x 14 | D | Blue |
| AN816-10DBK | 7/8 x 14 | NPT 1/2" x 14 | D | Black |
| AN816-12-08D | 1 1/16 x 12 | NPT 1/2" x 14 | D | Blue |
| AN816-12-08DBK | 1 1/16 x 12 | NPT 1/2" x 14 | D | Black |
| AN816-12D | 1 1/16 x 12 | NPT 3/4" x 14 | D | Blue |
| AN816-12DBK | 1 1/16 x 12 | NPT 3/4" x 14 | D | Black |
| AN816-16-12D | 1 5/16 x 12 | NPT 3/4" x 14 | D | Blue |
| AN816-16D | 1 5/16 x 12 | NPT 1 x 11 1/2 | D | Blue |
| AN816-16DBK | 1 5/16 x 12 | NPT 1 x 11 1/2 | D | Black |

JIC to NPT male to male Adaptors**Fitting type:**
Adaptor**Material:**
C, CH, D, P, Z1**Colour:**
D= Blue (Unless stated)

JIC to NPT male to male Adaptors

AN822



90° male elbow JIC to male NPT adaptor

| Part No. | JIC/UNF A | NPT B | Mat |
|----------------|-------------|----------------|-----|
| AN822-03D | 3/8 x 24 | NPT 1/8" x 27 | D |
| AN822-04-04D | 7/16 x 20 | NPT 1/4" x 18 | D |
| AN822-04D | 7/16 x 20 | NPT 1/8" x 27 | D |
| AN822-04DBK | 7/16 x 20 | NPT 1/8" x 27 | D |
| AN822-06-02D | 9/16 x 18 | NPT 1/8" x 27 | D |
| AN822-06-02DBK | 9/16 x 18 | NPT 1/8" x 27 | D |
| AN822-06-06D | 9/16 x 18 | NPT 3/8" x 18 | D |
| AN822-06-06DBK | 9/16 x 18 | NPT 3/8" x 18 | D |
| AN822-06-08D | 9/16 x 18 | NPT 1/2" x 14 | D |
| AN822-06D | 9/16 x 18 | NPT 1/4" x 18 | D |
| AN822-06DBK | 9/16 x 18 | NPT 1/4" x 18 | D |
| AN822-07D | 3/4 x 16 | NPT 1/4" x 18 | D |
| AN822-07DBK | 3/4 x 16 | NPT 1/4" x 18 | D |
| AN822-08-08D | 3/4 x 16 | NPT 1/2" x 14 | D |
| AN822-08-12D | 3/4 x 16 | NPT 3/4" x 14 | D |
| AN822-08D | 3/4 x 16 | NPT 3/8" x 18 | D |
| AN822-08DBK | 3/4 x 16 | NPT 3/8" x 18 | D |
| AN822-10D | 7/8 x 14 | NPT 1/2" x 14 | D |
| AN822-12-08D | 1 1/16 x 12 | NPT 1/2" x 14 | D |
| AN822-12D | 1 1/16 x 12 | NPT 3/4" x 14 | D |
| AN822-16D | 1 5/16 x 12 | NPT 1 x 11 1/2 | D |

AN823



45° male elbow JIC to NPT male adaptor

| Part No. | JIC/UNF A | NPT B | Mat |
|--------------|-------------|----------------|-----|
| AN823-03D | 3/8 x 24 | NPT 1/8" x 27 | D |
| AN823-04D | 7/16 x 20 | NPT 1/8" x 27 | D |
| AN823-06-06D | 9/16 x 18 | NPT 3/8" x 18 | D |
| AN823-06D | 9/16 x 18 | NPT 1/4" x 18 | D |
| AN823-08-08D | 3/4 x 16 | NPT 1/2" x 14 | D |
| AN823-08D | 3/4 x 16 | NPT 3/8" x 18 | D |
| AN823-10-06D | 7/8 x 14 | NPT 3/8" x 18 | D |
| AN823-10D | 7/8 x 14 | NPT 1/2" x 14 | D |
| AN823-16D | 1 5/16 x 12 | NPT 1 x 11 1/2 | D |

Fitting type:

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

AN932

Plug socket head

| Part No. | NPT Thread | Mat |
|-----------|----------------|-----|
| AN932-01D | NPT 1/16" x 27 | D |
| AN932-02D | NPT 1/8" x 27 | D |
| AN932-03D | NPT 1/4" x 18 | D |
| AN932-04D | NPT 3/8" x 18 | D |
| AN932-05D | NPT 1/2" x 14 | D |
| AN932-06D | NPT 3/4" x 14 | D |

AN840

Straight NPT to tube adaptor

| Part No. | NPT Thread | Mat |
|-----------|--------------------------|-----|
| AN840-04D | 1/8 x 27 for 200-04 hose | D |
| AN840-06D | 1/4 x 18 for 200-06 hose | D |
| AN840-08D | 3/8 x 18 for 200-08 hose | D |
| AN840-10D | 1/2 x 14 for 200-10 hose | D |
| AN840-12D | 3/4 x 14 for 200-12 hose | D |

AN842

90° NPT to tube adaptor

| Part No. | NPT Thread | Mat |
|-----------|--------------------------|-----|
| AN842-04D | 1/8 x 27 for 200-04 hose | D |
| AN842-06D | 1/4 x 18 for 200-06 hose | D |
| AN842-08D | 3/8 x 18 for 200-08 hose | D |
| AN842-10D | 1/2 x 14 for 200-10 hose | D |
| AN842-12D | 3/4 x 14 for 200-12 hose | D |

AN844

45° NPT to tube adaptor

| Part No. | NPT Thread | Mat |
|-----------|--------------------------|-----|
| AN844-04D | 1/8 x 27 for 200-04 hose | D |
| AN844-06D | 1/4 x 18 for 200-06 hose | D |
| AN844-08D | 3/8 x 18 for 200-08 hose | D |
| AN844-10D | 1/2 x 14 for 200-10 hose | D |



Top Tip: Please see thread guide and Technical Information section at the back of the catalogue.

NPT Adaptors**Fitting type:**

Adaptor

Material:

C, CH, D, P, Z1

Colour:

D= Blue (Unless stated)

JIC Male to Metric male Adaptors

Fitting type:

Adaptor

Material:

C, CBK, CH, D, P, Z1

Colour:

D = Blue

DBK = Black



305 JIC to metric convex adaptor

| Part No. | JIC/UNF A | Metric B | Mat |
|---------------|-----------|------------|-----|
| 305-03-21C | 3/8 x 24 | M8 x 1,00 | C |
| 305-03-31C | 3/8 x 24 | M10 x 1,00 | C |
| 305-03-31CBK | 3/8 x 24 | M10 x 1,00 | C |
| 305-03-31CH | 3/8 x 24 | M10 x 1,00 | CH |
| 305-03-31D | 3/8 x 24 | M10 x 1,00 | D |
| 305-03-31Z1 | 3/8 x 24 | M10 x 1,00 | Z1 |
| 305-03-32C | 3/8 x 24 | M10 x 1,25 | C |
| 305-03-32Z1 | 3/8 x 24 | M10 x 1,25 | Z1 |
| 305-03-35Z1 | 3/8 x 24 | M10 x 1,50 | Z1 |
| 305-03-M121C | 3/8 x 24 | M12 x 1,00 | C |
| 305-03-M121Z1 | 3/8 x 24 | M12 x 1,00 | Z1 |
| 305-03-M122Z1 | 3/8 x 24 | M12 x 1,25 | Z1 |
| 305-03-M12C | 3/8 x 24 | M12 x 1,50 | C |
| 305-04-31D | 7/16 x 20 | M10 x 1,00 | D |
| 305-04-31DBK | 7/16 x 20 | M10 x 1,00 | D |
| 305-04-31Z1 | 7/16 x 20 | M10 x 1,00 | Z1 |
| 305-04-32C | 7/16 x 20 | M10 x 1,25 | C |
| 305-04-35Z1 | 7/16 x 20 | M10 x 1,50 | Z1 |
| 305-04-M121Z1 | 7/16 x 20 | M12 x 1,00 | Z1 |
| 305-04-M122Z1 | 7/16 x 20 | M12 x 1,25 | Z1 |
| 305-04-M12D | 7/16 x 20 | M12 x 1,50 | D |

| Part No. | JIC/UNF A | Metric B | Mat |
|----------------|-----------|------------|-----|
| 305-04-M12DBK | 7/16 x 20 | M12 x 1,50 | D |
| 305-06-31D | 9/16 x 18 | M10 x 1,00 | D |
| 305-06-31DBK | 9/16 x 18 | M10 x 1,00 | D |
| 305-06-M121D | 9/16 x 18 | M12 x 1,00 | D |
| 305-06-M121DBK | 9/16 x 18 | M12 x 1,00 | D |
| 305-06-M122D | 9/16 x 18 | M12 x 1,25 | D |
| 305-06-M122DBK | 9/16 x 18 | M12 x 1,25 | D |
| 305-06-M12D | 9/16 x 18 | M12 x 1,50 | D |
| 305-06-M12DBK | 9/16 x 18 | M12 x 1,50 | D |
| 305-06-M14D | 9/16 x 18 | M14 x 1,50 | D |
| 305-06-M14DBK | 9/16 x 18 | M14 x 1,50 | D |
| 305-06-M16D | 9/16 x 18 | M16 x 1,50 | D |
| 305-06-M16DBK | 9/16 x 18 | M16 x 1,50 | D |
| 305-08-M12D | 3/4 x 16 | M12 x 1,50 | D |
| 305-08-M14D | 3/4 x 16 | M14 x 1,50 | D |
| 305-08-M14DBK | 3/4 x 16 | M14 x 1,50 | D |
| 305-08-M16D | 3/4 x 16 | M16 x 1,50 | D |
| 305-08-M16DBK | 3/4 x 16 | M16 x 1,50 | D |
| 305-10-M18D | 7/8 x 14 | M18 x 1,50 | D |
| 305-10-M18DBK | 7/8 x 14 | M18 x 1,50 | D |



306 JIC to metric concave adaptor

| Part No. | JIC/UNF A | Metric B | Mat |
|--------------|-----------|------------|-----|
| 306-02-31C | 5/16 x 24 | M10 x 1,00 | C |
| 306-03-21C | 3/8 x 24 | M8 x 1,00 | C |
| 306-03-22C | 3/8 x 24 | M8 x 1,25 | C |
| 306-03-31C | 3/8 x 24 | M10 x 1,00 | C |
| 306-03-31CH | 3/8 x 24 | M10 x 1,00 | CH |
| 306-03-31D | 3/8 x 24 | M10 x 1,00 | D |
| 306-03-31DBK | 3/8 x 24 | M10 x 1,00 | D |
| 306-03-31SZ1 | 3/8 x 24 | M10 x 1,00 | Z1 |
| 306-03-31Z1 | 3/8 x 24 | M10 x 1,00 | Z1 |

| Part No. | JIC/UNF A | Metric B | Mat |
|--------------|-----------|------------|-----|
| 306-03-32C | 3/8 x 24 | M10 x 1,25 | C |
| 306-03-32CH | 3/8 x 24 | M10 x 1,25 | CH |
| 306-03-32D | 3/8 x 24 | M10 x 1,25 | D |
| 306-03-32Z1 | 3/8 x 24 | M10 x 1,25 | Z1 |
| 306-03-35Z1 | 3/8 x 24 | M10 x 1,50 | Z1 |
| 306-03-M121D | 3/8 x 24 | M12 x 1,00 | D |
| 306-03-M12C | 3/8 x 24 | M12 x 1,50 | C |
| 306-03-M12D | 3/8 x 24 | M12 x 1,50 | D |
| 306-03-M16D | 3/8 x 24 | M16 x 1,50 | D |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

306 JIC to metric concave adaptor

| Part No. | JIC/UNF A | Metric B | Mat |
|----------------|-----------|------------|-----|
| 306-04-31C | 7/16 x 20 | M10 x 1,00 | C |
| 306-04-31D | 7/16 x 20 | M10 x 1,00 | D |
| 306-04-31DBK | 7/16 x 20 | M10 x 1,00 | D |
| 306-04-32D | 7/16 x 20 | M10 x 1,25 | D |
| 306-04-32DBK | 7/16 x 20 | M10 x 1,25 | D |
| 306-04-35Z1 | 7/16 x 20 | M10 x 1,50 | D |
| 306-04-M121D | 7/16 x 20 | M12 x 1,00 | D |
| 306-04-M121DBK | 7/16 x 20 | M12 x 1,00 | D |
| 306-04-M12Z1 | 7/16 x 20 | M12 x 1,50 | Z1 |
| 306-04-M14D | 7/16 x 20 | M14 x 1,50 | D |
| 306-04-M14DBK | 7/16 x 20 | M14 x 1,50 | D |
| 306-04-M14P | 7/16 x 20 | M14 x 1,50 | D |
| 306-04-M16Z1 | 7/16 x 20 | M16 x 1,50 | Z1 |
| 306-04-M18D | 7/16 x 20 | M18 x 1,50 | D |
| 306-04-M18DBK | 7/16 x 20 | M18 x 1,50 | D |
| 306-06-31D | 9/16 x 18 | M10 x 1,00 | D |
| 306-06-31DBK | 9/16 x 18 | M10 x 1,00 | D |
| 306-06-32D | 9/16 x 18 | M10 x 1,25 | D |
| 306-06-32DBK | 9/16 x 18 | M10 x 1,25 | D |
| 306-06-M121D | 9/16 x 18 | M12 x 1,00 | D |
| 306-06-M121DBK | 9/16 x 18 | M12 x 1,00 | D |
| 306-06-M12D | 9/16 x 18 | M12 x 1,50 | D |
| 306-06-M12DBK | 9/16 x 18 | M12 x 1,50 | D |
| 306-06-M12Z1 | 9/16 x 18 | M12 x 1,50 | Z1 |
| 306-06-M14D | 9/16 x 18 | M14 x 1,50 | D |
| 306-06-M14DBK | 9/16 x 18 | M14 x 1,50 | D |
| 306-06-M14Z1 | 9/16 x 18 | M14 x 1,50 | Z1 |
| 306-06-M16D | 9/16 x 18 | M16 x 1,50 | D |
| 306-06-M16DBK | 9/16 x 18 | M16 x 1,50 | D |
| 306-06-M16Z1 | 9/16 x 18 | M16 x 1,50 | Z1 |
| 306-06-M18D | 9/16 x 18 | M18 x 1,50 | D |
| 306-06-M18Z1 | 9/16 x 18 | M18 x 1,50 | Z1 |
| 306-06-M18DBK | 9/16 x 18 | M18 x 1,50 | D |
| 306-06-M20D | 9/16 x 18 | M20 x 1,50 | D |
| 306-06-M20DBK | 9/16 x 18 | M20 x 1,50 | D |
| 306-06-M22D | 9/16 x 18 | M22 x 1,50 | D |
| 306-06-M22DBK | 9/16 x 18 | M22 x 1,50 | D |
| 306-08-M12D | 3/4 x 16 | M12 x 1,50 | D |
| 306-08-M12DBK | 3/4 x 16 | M12 x 1,50 | D |
| 306-08-M14D | 3/4 x 16 | M14 x 1,50 | D |
| 306-08-M14DBK | 3/4 x 16 | M14 x 1,50 | D |

| Part No. | JIC/UNF A | Metric B | Mat |
|---------------|-------------|------------|-----|
| 306-08-M14P | 3/4 x 16 | M14 x 1,50 | P |
| 306-08-M16D | 3/4 x 16 | M16 x 1,50 | D |
| 306-08-M16DBK | 3/4 x 16 | M16 x 1,50 | D |
| 306-08-M16Z1 | 3/4 x 16 | M16 x 1,50 | Z1 |
| 306-08-M18D | 3/4 x 16 | M18 x 1,50 | D |
| 306-08-M18DBK | 3/4 x 16 | M18 x 1,50 | D |
| 306-08-M18Z1 | 3/4 x 16 | M18 x 1,50 | Z1 |
| 306-08-M20D | 3/4 x 16 | M20 x 1,50 | D |
| 306-08-M20DBK | 3/4 x 16 | M20 x 1,50 | D |
| 306-08-M22D | 3/4 x 16 | M22 x 1,50 | D |
| 306-08-M22DBK | 3/4 x 16 | M22 x 1,50 | D |
| 306-08-M24D | 3/4 x 16 | M24 x 1,50 | D |
| 306-10-M14D | 7/8 x 14 | M14 x 1,50 | D |
| 306-10-M14DBK | 7/8 x 14 | M14 x 1,50 | D |
| 306-10-M16D | 7/8 x 14 | M16 x 1,50 | D |
| 306-10-M16DBK | 7/8 x 14 | M16 x 1,50 | D |
| 306-10-M16Z1 | 7/8 x 14 | M16 x 1,50 | Z1 |
| 306-10-M18D | 7/8 x 14 | M18 x 1,50 | D |
| 306-10-M18DBK | 7/8 x 14 | M18 x 1,50 | D |
| 306-10-M20D | 7/8 x 14 | M20 x 1,50 | D |
| 306-10-M20DBK | 7/8 x 14 | M20 x 1,50 | D |
| 306-10-M22D | 7/8 x 14 | M22 x 1,50 | D |
| 306-10-M22DBK | 7/8 x 14 | M22 x 1,50 | D |
| 306-10-M24D | 7/8 x 14 | M24 x 1,50 | D |
| 306-10-M24DBK | 7/8 x 14 | M24 x 1,50 | D |
| 306-10-M26D | 7/8 x 14 | M26 x 1,50 | D |
| 306-10-M26DBK | 7/8 x 14 | M26 x 1,50 | D |
| 306-12-M18D | 1 1/16 x 12 | M18 x 1,50 | D |
| 306-12-M18DBK | 1 1/16 x 12 | M18 x 1,50 | D |
| 306-12-M20D | 1 1/16 x 12 | M20 x 1,50 | D |
| 306-12-M20DBK | 1 1/16 x 12 | M20 x 1,50 | D |
| 306-12-M22D | 1 1/16 x 12 | M22 x 1,50 | D |
| 306-12-M22DBK | 1 1/16 x 12 | M22 x 1,50 | D |
| 306-12-M24D | 1 1/16 x 12 | M24 x 1,50 | D |
| 306-12-M24DBK | 1 1/16 x 12 | M24 x 1,50 | D |
| 306-12-M26D | 1 1/16 x 12 | M26 x 1,50 | D |
| 306-12-M26DBK | 1 1/16 x 12 | M26 x 1,50 | D |
| 306-12-M30D | 1 1/16 x 12 | M30 x 1,50 | D |
| 306-12-M30DBK | 1 1/16 x 12 | M30 x 1,50 | D |
| 306-16-M26D | 1 5/16 x 14 | M26 x 1,50 | D |
| 306-16-M30D | 1 5/16 x 14 | M30 x 1,50 | D |

307 JIC to metric convex bulkhead adaptor

| Part No. | JIC/UNF A | Metric B | Mat |
|------------|-----------|------------|-----|
| 307-03-31C | 3/8 x 24 | M10 x 1,00 | C |
| 307-03-31P | 3/8 x 24 | M10 x 1,00 | P |



BSP to JIC Adaptors

Fitting type:

Adaptor

Material:

CH, D, P, Z1

Colour:

D = Blue

DBK = Black

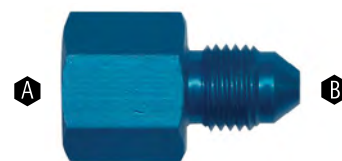


741 BSP male to JIC male adaptor

| Part No. | BSP A | JIC/UNF B | Mat |
|--------------|---------------|-----------|-----|
| 741-03-03D | BSP 1/8" x 28 | 3/8 x 24 | D |
| 741-03-03Z1 | BSP 1/8" x 28 | 3/8 x 24 | Z1 |
| 741-03-04D | BSP 1/8" x 28 | 7/16 x 20 | D |
| 741-03-04DBK | BSP 1/8" x 28 | 7/16 x 20 | D |
| 741-03-04Z1 | BSP 1/8" x 28 | 7/16 x 20 | Z1 |
| 741-03-06D | BSP 1/8" x 28 | 9/16 x 18 | D |
| 741-03-06DBK | BSP 1/8" x 28 | 9/16 x 18 | D |
| 741-04-03C | BSP 1/4" x 19 | 3/8 x 24 | C |
| 741-04-03D | BSP 1/4" x 19 | 3/8 x 24 | D |
| 741-04-03DBK | BSP 1/4" x 19 | 3/8 x 24 | D |
| 741-04-03Z1 | BSP 1/4" x 19 | 3/8 x 24 | Z1 |
| 741-04-04D | BSP 1/4" x 19 | 7/16 x 20 | D |
| 741-04-04DBK | BSP 1/4" x 19 | 7/16 x 20 | D |
| 741-04-04Z1 | BSP 1/4" x 19 | 7/16 x 20 | Z1 |
| 741-04-06D | BSP 1/4" x 19 | 9/16 x 18 | D |
| 741-04-06DBK | BSP 1/4" x 19 | 9/16 x 18 | D |
| 741-04-06Z1 | BSP 1/4" x 19 | 9/16 x 18 | Z1 |
| 741-04-08P | BSP 1/4" x 19 | 3/4 x 16 | P |
| 741-04-10P | BSP 1/4" x 19 | 7/8 x 14 | P |
| 741-06-04D | BSP 1/4" x 19 | 7/8 x 14 | D |
| 741-06-04DBK | BSP 1/4" x 19 | 7/8 x 14 | D |
| 741-06-04Z1 | BSP 3/8" x 19 | 7/16 x 20 | Z1 |
| 741-06-06D | BSP 3/8" x 19 | 9/16 x 18 | D |
| 741-06-06DBK | BSP 3/8" x 19 | 9/16 x 18 | D |
| 741-06-06Z1 | BSP 3/8" x 19 | 9/16 x 18 | Z1 |
| 741-06-08D | BSP 3/8" x 19 | 3/4 x 16 | D |
| 741-06-08DBK | BSP 3/8" x 19 | 3/4 x 16 | D |

763 BSP female to JIC male adaptor

| Part No. | BSP A | JIC/UNF B | Mat |
|------------|---------------|-----------|-----|
| 763-03-03D | BSP 1/8" x 24 | 3/8 x 24 | D |
| 763-04-04P | BSP 1/4" x 19 | 7/16 x 20 | D |
| 763-04-06D | BSP 1/4" x 19 | 9/16 x 18 | D |
| 763-06-08D | BSP 3/8" x 19 | 3/4 x 16 | D |
| 763-08-06P | BSP 1/2" x 14 | 9/16 x 18 | D |
| 763-08-08P | BSP 1/2" x 14 | 3/4 x 16 | D |
| 763-08-10P | BSP 1/2" x 14 | 7/8 x 14 | D |



| Part No. | BSP A | JIC/UNF B | Mat |
|--------------|---------------|-------------|-----|
| 741-06-08Z1 | BSP 3/8" x 19 | 3/4 x 16 | Z1 |
| 741-06-10D | BSP 3/8" x 19 | 7/8 x 14 | D |
| 741-06-10DBK | BSP 3/8" x 19 | 7/8 x 14 | D |
| 741-08-06D | BSP 1/2" x 14 | 9/16 x 18 | D |
| 741-08-06DBK | BSP 1/2" x 14 | 9/16 x 18 | D |
| 741-08-06Z1 | BSP 1/2" x 14 | 9/16 x 18 | Z1 |
| 741-08-08D | BSP 1/2" x 14 | 3/4 x 16 | D |
| 741-08-08Z1 | BSP 1/2" x 14 | 3/4 x 16 | Z1 |
| 741-08-08DBK | BSP 1/2" x 14 | 3/4 x 16 | D |
| 741-08-10D | BSP 1/2" x 14 | 7/8 x 14 | D |
| 741-08-10DBK | BSP 1/2" x 14 | 7/8 x 14 | D |
| 741-08-10Z1 | BSP 1/2" x 14 | 7/8 x 14 | Z1 |
| 741-08-12D | BSP 1/2" x 14 | 1 1/16 x 12 | D |
| 741-08-12DBK | BSP 1/2" x 14 | 1 1/16 x 12 | D |
| 741-08-12Z1 | BSP 1/2" x 14 | 1 1/16 x 12 | Z1 |
| 741-10-10D | BSP 5/8" x 14 | 7/8 x 14 | D |
| 741-10-10DBK | BSP 5/8" x 14 | 7/8 x 14 | D |
| 741-10-10P | BSP 5/8" x 14 | 7/8 x 14 | P |
| 741-10-12D | BSP 5/8" x 14 | 1 1/16 x 12 | D |
| 741-10-12DBK | BSP 5/8" x 14 | 1 1/16 x 12 | D |
| 741-10-12P | BSP 5/8" x 14 | 1 1/16 x 12 | P |
| 741-12-08P | BSP 3/4" x 14 | 3/4 x 16 | P |
| 741-12-10P | BSP 3/4" x 14 | 7/8 x 14 | P |
| 741-12-12D | BSP 3/4" x 14 | 1 1/16 x 12 | D |
| 741-12-12DBK | BSP 3/4" x 14 | 1 1/16 x 12 | D |
| 741-12-12Z1 | BSP 3/4" x 14 | 1 1/16 x 12 | Z1 |
| 741-16-12P | BSP 1" x 11 | 1 1/16 x 12 | P |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

742



Metric concave seat

| Part No. | BSP A | Metric B | Mat |
|---------------|---------------|------------|-----|
| 742-03-31Z1 | BSP 1/8" x 28 | M10 x 1.00 | Z1 |
| 742-03-M121Z1 | BSP 1/8" x 28 | M12 x 1.00 | Z1 |
| 742-04-M12P | BSP 1/4" x 19 | M12 x 1.50 | P |
| 742-04-M14P | BSP 1/4" x 19 | M14 x 1.50 | P |
| 742-08-M14P | BSP 1/2" x 14 | M14 x 1.50 | P |
| 742-08-M16P | BSP 1/2" x 14 | M16 x 1.50 | P |
| 742-08-M18P | BSP 1/2" x 14 | M18 x 1.50 | P |

945



Metric convex seat

| Part No. | BSP A | Metric B | Mat |
|--------------|---------------|------------|-----|
| 945-03-31P | BSP 1/8" x 28 | M10 x 1.00 | P |
| 945-03-M121P | BSP 1/8" x 28 | M12 x 1.00 | P |

313



Plug

| Part No. | BSP | Mat |
|----------|---------------|-----|
| 313-03P | BSP 1/8" x 28 | P |
| 313-04P | BSP 1/4" x 19 | P |
| 313-06P | BSP 3/8" x 19 | P |
| 313-08P | BSP 1/2" x 14 | P |
| 313-10P | BSP 5/8" x 14 | P |

145



Metric male equal convex

| Part No. | Metric A | Metric B | Mat |
|----------|------------|------------|-----|
| 145-31Z1 | M10 x 1,00 | M10 x 1,00 | Z1 |
| 145-31P | M10 x 1,00 | M10 x 1,00 | P |

148



Metric unequal male concave seat

| Part No. | Metric A | Metric B | Mat |
|---------------|------------|------------|-----|
| 148-31-M12C | M10 x 1,00 | M12 x 1,50 | C |
| 148-M12-M14Z1 | M12 x 1,50 | M14 x 1,50 | Z1 |
| 148-M14-M16P | M14 x 1,50 | M16 x 1,50 | P |
| 148-M16-M18P | M16 x 1,50 | M18 x 1,50 | P |
| 148-M18-M22P | M18 x 1,50 | M22 x 1,50 | P |
| 148-M22-M26P | M22 x 1,50 | M26 x 1,50 | P |

149



Metric equal male concave seat

| Part No. | Metric A | Metric B | Mat |
|----------|------------|------------|-----|
| 149-M12P | M12 x 1,50 | M12 x 1,50 | P |
| 149-M14P | M14 x 1,50 | M14 x 1,50 | P |
| 149-M16P | M16 x 1,50 | M16 x 1,50 | P |
| 149-M18P | M18 x 1,50 | M18 x 1,50 | P |

BSP Male to Metric male Adaptors**Fitting type:**

Adaptor

Material:

P, Z1

BSP Plug**Fitting type:**

Plug

Material:

P

Metric Adaptors**Fitting type:**

Adaptor

Material:

P, Z1, C, D

Colour:

D = Blue (Unless stated)

Metric Adaptors

Fitting type:

Adaptor

Material:

P, Z1, C, D

Colour:

D = Blue (Unless stated)

314



Plug

| Part No. | Metric | Mat |
|------------|--------------------------|-----------|
| 314-21SD | M8 x 1,00 - socket head | D |
| 314-31P | M10 x 1,00 | P |
| 314-31SDBK | M10 x 1,00 - socket head | D - black |
| 314-M122P | M12 x 1,25 | P |
| 314-M12D | M12 x 1,50 | D |
| 314-M14D | M14 x 1,50 | D |
| 314-M14P | M14 x 1,50 | P |
| 314-M14SD | M14 x 1,50 - socket head | D |
| 314-M16P | M16 x 1,50 | P |
| 314-M18D | M18 x 1,50 | D |
| 314-M22P | M22 x 1,50 | P |

Metric & JIC/UNF
Banjo Adaptors and
banjo bolts

776 Single banjo



| Part No. | Hole size | JIC/UNF | Mat | Part No. | Hole size | JIC/UNF | Mat |
|---------------|------------|-----------|-----|---------------|-----------|-----------|-----|
| 776-03-04CH | 7/16" | 3/8 x 24 | CH | 776-06-M12DBK | 12 mm | 9/16 x 18 | D |
| 776-03-04Z1 | 7/16" | 3/8 x 24 | Z1 | 776-06-M14D | 14 mm | 9/16 x 18 | D |
| 776-03C | 3/8", 10mm | 3/8 x 24 | C | 776-06-M14DBK | 14 mm | 9/16 x 18 | D |
| 776-03CH | 3/8", 10mm | 3/8 x 24 | CH | 776-06-M16D | 16 mm | 9/16 x 18 | D |
| 776-03D | 3/8", 10mm | 3/8 x 24 | D | 776-06-M16DBK | 16 mm | 9/16 x 18 | D |
| 776-03Z1 | 3/8", 10mm | 3/8 x 24 | Z1 | 776-06D | 9/16" | 9/16 x 18 | D |
| 776-04-03Z1 | 3/8" | 7/16 x 20 | Z1 | 776-06DBK | 9/16" | 9/16 x 18 | D |
| 776-04-M12D | 12 mm | 7/16 x 20 | D | 776-08-M14D | 14 mm | 3/4 x 16 | D |
| 776-04-M12DBK | 12 mm | 7/16 x 20 | D | 776-08-M14DBK | 14 mm | 3/4 x 16 | D |
| 776-04-M12Z1 | 12 mm | 7/16 x 20 | Z1 | 776-08-M16D | 16 mm | 3/4 x 16 | D |
| 776-04-M14D | 14 mm | 7/16 x 20 | D | 776-08-M16DBK | 16 mm | 3/4 x 16 | D |
| 776-04-M14DBK | 14 mm | 7/16 x 20 | D | 776-08-M18D | 18 mm | 3/4 x 16 | D |
| 776-04Z1 | 7/16" | 7/16 x 20 | Z1 | 776-08-M18DBK | 18 mm | 3/4 x 16 | D |
| 776-06-04D | 7/16" | 9/16 x 18 | D | 776-10-M18D | 18 mm | 7/8 x 14 | D |
| 776-06-04DBK | 7/16" | 9/16 x 18 | D | 776-10-M20D | 20 mm | 7/8 x 14 | D |
| 776-06-M12D | 12 mm | 9/16 x 18 | D | | | | |

779



Straight double banjo JIC

| Part No. | Hole size | JIC/UNF | Mat |
|--------------|-------------|-----------|-----|
| 779-03C | 3/8", 10 mm | 3/8 x 24 | C |
| 779-03Z1 | 3/8", 10 mm | 3/8 x 24 | Z1 |
| 779-06-04D | 7/16" | 9/16 x 18 | D |
| 779-06-04DBK | 7/16" | 9/16 x 18 | D |

Fitting type:

Banjo bolt

Material:

C, CH, D, P, Z1

Colour:

D = Blue (Unless stated)

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

775

Single banjo bolt JIC

| Part No. | JIC/UNF | Mat | Note | To suit banjo |
|-----------|-----------|------------|------------------------|---------------|
| 775-04C | 7/16 x 20 | C | - | -04 |
| 775-04CH | 7/16 x 20 | CH | - | -04 |
| 775-04D | 7/16 x 20 | D | - | -04 |
| 775-04LZ1 | 7/16 x 20 | Z1 | Long (25 mm under hex) | -04 |
| 775-04Z1 | 7/16 x 20 | Z1 | - | -04 |
| 775-06D | 9/16 x 18 | D | - | -06 |
| 775-44BK | 7/16 x 24 | Mild steel | Black | -04 |
| 775-44C | 7/16 x 24 | C | - | -04 |
| 775-44CBK | 7/16 x 24 | C | Black | -04 |
| 775-44CH | 7/16 x 24 | CH | - | -04 |
| 775-44Z1 | 7/16 x 24 | Z1 | - | -04 |

992

Single banjo bolt metric

| Part No. | Metric | Mat | Note | To suit banjo |
|----------------|------------|-----|-------------------------|---------------|
| 992-04-32C | M10 x 1,25 | C | - | -04 |
| 992-04-M121D | M12 x 1,00 | D | - | -04 |
| 992-04-M121DBK | M12 x 1,00 | D | Black | -04 |
| 992-04-M121SC | M12 x 1,00 | C | Short (25 mm under hex) | -04 |
| 992-04-M121SZ1 | M12 x 1,00 | Z1 | - | -04 |
| 992-04-M121Z1 | M12 x 1,00 | Z1 | - | -04 |
| 992-04-M122D | M12 x 1,25 | D | - | -04 |
| 992-04-M122DBK | M12 x 1,25 | D | Black | -04 |
| 992-04-M122Z1 | M12 x 1,25 | Z1 | - | -04 |
| 992-04-M12C | M12 x 1,50 | C | - | -04 |
| 992-04-M12CH | M12 x 1,50 | CH | - | -04 |
| 992-04-M12D | M12 x 1,50 | D | - | -04 |
| 992-04-M12DBK | M12 x 1,50 | D | Black | -04 |
| 992-06-M12D | M12 x 1,50 | D | - | -06 |
| 992-06-M12DBK | M12 x 1,50 | D | Black | -06 |
| 992-06-M141D | M14 x 1,00 | D | - | -06 |
| 992-06-M142D | M14 x 1,25 | D | - | -06 |
| 992-06-M142DBK | M14 x 1,25 | D | Black | -06 |
| 992-06-M14D | M14 x 1,50 | D | - | -06 |
| 992-06-M14DBK | M14 x 1,50 | D | Black | -06 |
| 992-06-M16D | M16 x 1,50 | D | - | -06 |
| 992-06-M16DBK | M16 x 1,50 | D | Black | -06 |
| 992-08-M16D | M16 x 1,50 | D | - | -08 |
| 992-08-M16DBK | M16 x 1,50 | D | Black | -08 |
| 992-08-M18D | M18 x 1,50 | D | - | -08 |
| 992-08-M18DBK | M18 x 1,50 | D | Black | -08 |



Top Tip: Please see thread guide and Technical Information section at the back of the catalogue.

Metric & JIC/UNF Banjo Adaptors and banjo bolts

Copper crush washers can be found in the Ancillary (13) section

Fitting type:

Banjo bolt

Material:

C, CH, D, P, Z1

Colour:

D = Blue (Unless stated)

Special Adaptors
(Inc female port)

AN920



Straight o'ring boss to JIC male

| Part No. | JIC/UNF A | JIC/UNF B | Mat |
|----------------|-------------|-------------|---------|
| AN920-04D | 7/16 x 20 | 7/16 x 20 | D |
| AN920-04DBK | 7/16 x 20 | 7/16 x 20 | D-black |
| AN920-06D | 9/16 x 18 | 9/16 x 18 | D |
| AN920-06DBK | 9/16 x 18 | 9/16 x 18 | D-black |
| AN920-06-10D | 9/16 x 18 | 7/8 x 14 | D |
| AN920-08D | 3/4 x 16 | 3/4 x 16 | D |
| AN920-08DBK | 3/4 x 16 | 3/4 x 16 | D-black |
| AN920-08-10D | 3/4 x 16 | 7/8 x 14 | D |
| AN920-08-10DBK | 3/4 x 16 | 7/8 x 14 | D-black |
| AN920-10D | 7/8 x 14 | 7/8 x 14 | D |
| AN920-10DBK | 7/8 x 14 | 7/8 x 14 | D-black |
| AN920-10-08D | 7/8 x 14 | 3/4 x 16 | D |
| AN920-10-08DBK | 7/8 x 14 | 3/4 x 16 | D-black |
| AN920-12D | 1 1/16 x 12 | 1 1/16 x 12 | D |

FP190/191



JIC male to male with female NPT in hex

| Part No. | NPT Hole size | JIC/UNF | Mat |
|----------|---------------|-----------|-----|
| FBM2183 | 1/8" | 9/16 x 18 | D |
| FP190 | 1/8" | 9/16 x 18 | D |
| FP191 | 1/8" | 3/4 x 16 | D |

FP192/193



JIC female to male with female NPT in hex

| Part No. | NPT Hole size | JIC/UNF | Mat |
|----------|---------------|-----------|-----|
| FP192 | 1/8" | 9/16 x 18 | D |
| FP193 | 1/8" | 3/4 x 16 | D |

Fitting type:

Adaptor

Material:

D, P

Colour:

D = Blue
DBK = Black

Application:

Power steering, Gauges,
Pressure switches, Custom
applications

Special Adaptors
Fuel and oil pressure
gauge fittings

GA

Straight



90°



Fuel and oil pressure gauge fittings

| Part No. | Thread A | Thread B | Mat |
|----------|------------|--------------------|-----|
| GA-3 | Male -03AN | Female 1/8 NPT | P |
| GA-4 | Male -04AN | Female 1/8 NPT | P |
| GA-903 | Male -03AN | 90° Female 1/8 NPT | P |

Fitting type:

Adaptor

Material:

P

Application:

Gauges

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

FM10100

Male to female adaptor

| Part No. | JIC/UNF A | Metric B | Mat | Note |
|--------------|-----------|-----------|-----|---------------|
| FM10100-03Z1 | 3/8 x 24 | 10 x 1.00 | Z1 | Female convex |
| FM10100-04 | 7/16 x 20 | 10 x 1.00 | P | Female convex |

FM10125

Male to female adaptor

| Part No. | JIC/UNF A | Metric B | Mat | Note |
|------------|-----------|-----------|-----|---------------|
| FM10125-03 | 3/8 x 24 | 10 x 1.25 | P | Female convex |

FM10150

Male to female brake adaptor

| Part No. | JIC/UNF A | Metric B | Mat | Note |
|---------------|-----------|-----------|-----|---------------|
| FM10150-03FZ1 | 3/8 x 24 | 10 x 1.50 | Z1 | Female convex |

FM10324

Male to female adaptor

| Part No. | JIC/UNF A | JIC/UNF B | Mat | Note |
|------------|-----------|-----------|-----|---------------|
| FM10324-03 | 3/8 x 24 | 3/8 x 24 | P | Female convex |
| FM10324-04 | 3/8 x 24 | 7/16 x 20 | P | Female convex |

FM10716

Male to female adaptor

| Part No. | JIC/UNF A | JIC/UNF B | Mat | Note |
|--------------|-----------|-----------|-----|---------------|
| FM10716-03Z1 | 3/8 x 24 | 7/16 x 24 | Z1 | Female convex |
| FM10716-04 | 7/16 x 20 | 7/16 x 24 | Z1 | Female convex |

Brake Adaptors

A range of brake adaptors to cover almost every combination; suitable for racing, road legal vehicle, motorcycle or custom project.

Fitting type:

Brake Adaptor

Material:

C, CH, P

Application:

Brake Systems

To suit hose:

600 series

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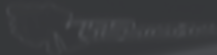
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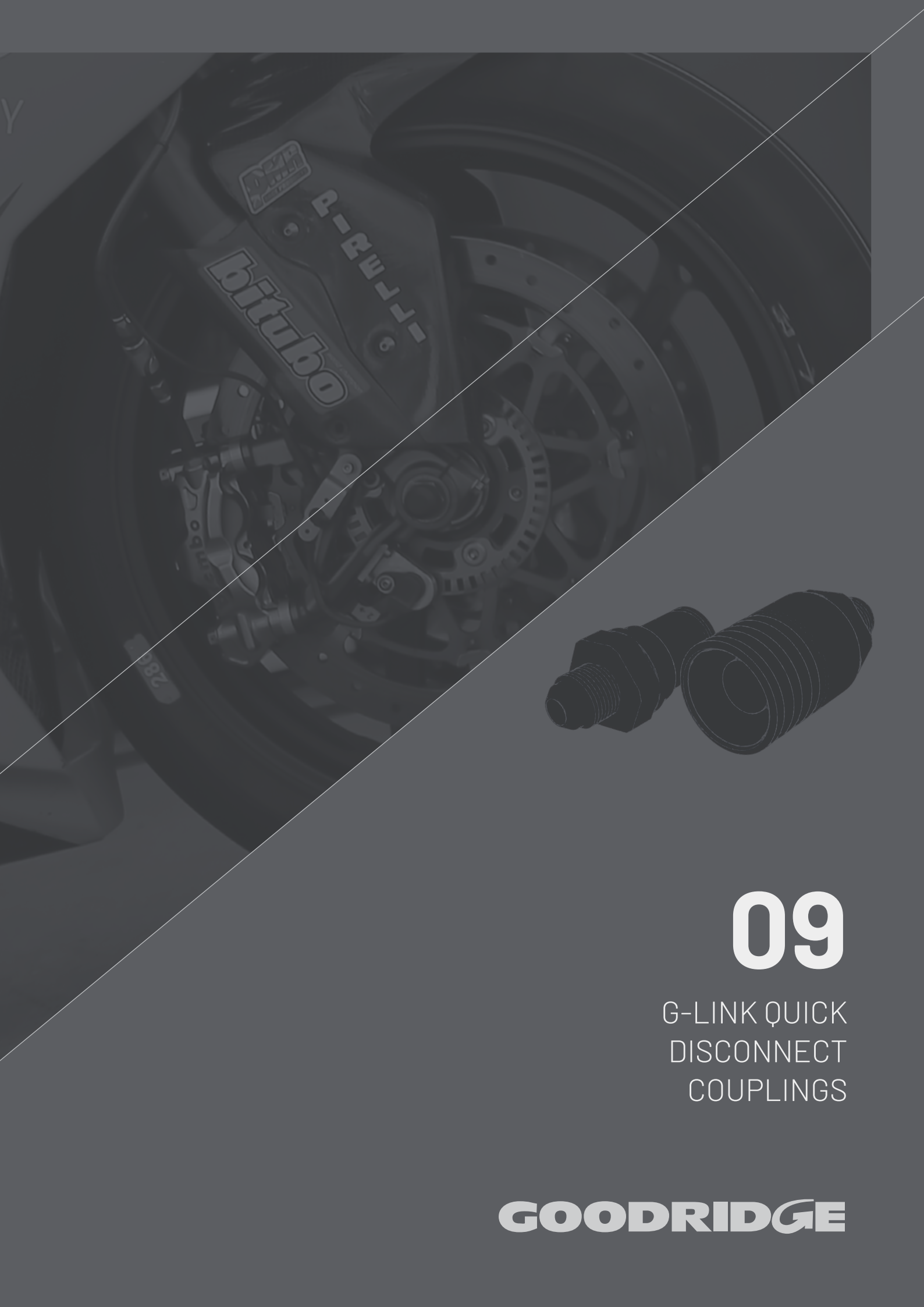
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09

G-LINK QUICK
DISCONNECT
COUPLINGS

GOODRIDGE

G-Link Quick disconnect couplings

Goodridge G-Link quick disconnect couplings (otherwise known as dry-breaks) are a lightweight coupling that can be disconnected and reconnected by hand/lanyard in seconds; without the need to re-bleed the system. Perfect for brake lines, fuel lines, oil lines and pneumatics. There are two types of G-Link available, 'bayonet' and 'pull type'; with a range of seals to suit different applications.

Dry-breaks are for motorsport use only, not to be used for road applications.

Fluid applications:

Brake fluid, Fuel, Oil, Water, Methanol, Ethanol & Pneumatics

Compatible interface:

JIC/UNF

Benefits:

- Quick connect/disconnect
- No air ingress or re-bleeding necessary
- Applications for all fluids/pneumatics

Features:

- Self acting valves
- Specific seals available
- Push / Pull types
- Lanyard & bulkhead options

Bulkhead
fitments
available

Motorsport use
ONLY



Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

G-LINK BAYONET-TYPE

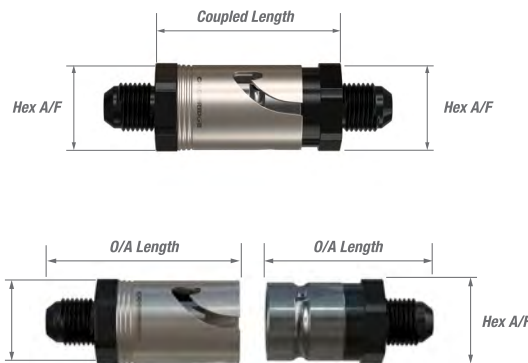
1. CHOOSE SEAL TYPE:

| Seal type | Chemical description | Operating temperatures | Fluids |
|-----------|---------------------------------|------------------------|------------------------------|
| FPM B | Fluorocarbon | -20°C to 200°C | Fuel, Ethanol, Vegetable oil |
| TFE/P | Tetrafluoroethylene & Propylene | -5°C to 170°C | Brake fluid |



2. CHOOSE CONFIGURATION:

| AN | JIC/UNF | Nominal size | Body ID (mm) |
|-----|-----------|--------------|--------------|
| -03 | 3/8 x 24 | -03 | 3.5 |
| -04 | 7/16 x 20 | -03 | 3.5 |
| -04 | 7/16 x 20 | -05 | 5.5 |
| -06 | 9/16 x 18 | -05 | 5.5 |
| -06 | 9/16 x 18 | -08 | 8.5 |
| -08 | 3/4 x 16 | -08 | 8.5 |



G-Link Bayonet type

The bayonet type uses a locking mechanism designed for single handed operation, a 'push and twist' of the outer sleeve will couple/uncouple the G-Link with no separate actuation required for operation. Both halves, plug and socket, are equipped with self-acting valves to stop fluid loss and air ingress. The bayonet type can hold pressure up to 200 bar (AN-03). Available in JIC/UNF AN-03, AN-04, AN-06 & AN-08 thread fitments.

Plugs and Sockets are ordered separately

Please note:

AN-04 and AN-06 thread fitments are available with 3.5/5.5mm & 5.5/8.5mm internal diameter body types respectively.

3. SELECT PART NO:

| Part No. | Nominal size | Part | Dash | Seal | Hex A/F | O/A Length | Coupled Length | Nominal Ø | MWP | Weight | Type |
|--------------|--------------|--------|------|-------|---------|------------|----------------|-----------|---------|--------|----------|
| GQD03BP03EA | 03 | plug | -03 | TFE/P | 13 mm | 34.7 mm | 38 mm | 3.5 mm | 200 bar | 7 g | standard |
| GQD03BP03BEA | 03 | plug | -03 | TFE/P | 13 mm | 41.2 mm | 38 mm | 3.5 mm | 200 bar | 8 g | bulkhead |
| GQD03BS03EA | 03 | socket | -03 | TFE/P | 13 mm | 42.5 mm | 38 mm | 3.5 mm | 200 bar | 10 g | standard |
| GQD03BP03F | 03 | plug | -03 | FPM | 13 mm | 34.7 mm | 38 mm | 3.5 mm | 200 bar | 7 g | standard |
| GQD03BS03F | 03 | socket | -03 | FPM | 13 mm | 42.5 mm | 38 mm | 3.5 mm | 200 bar | 10 g | standard |
| GQD03BP04EA | 03 | plug | -04 | TFE/P | 13 mm | 36.2 mm | 38 mm | 3.5 mm | 200 bar | 7 g | standard |
| GQD03BS04EA | 03 | socket | -04 | TFE/P | 13 mm | 44.05 mm | 38 mm | 3.5 mm | 200 bar | 11 g | standard |
| GQD03BP04F | 03 | plug | -04 | FPM | 13 mm | 36.2 mm | 38 mm | 3.5 mm | 200 bar | 7 g | standard |
| GQD03BS04F | 03 | socket | -04 | FPM | 13 mm | 44.05 mm | 38 mm | 3.5 mm | 200 bar | 11 g | standard |
| GQD05BP04F | 05 | plug | -04 | FPM | 17 mm | 39.6 mm | 43 mm | 5.5 mm | 150 bar | 13 g | standard |
| GQD05BS04F | 05 | socket | -04 | FPM | 17 mm | 47.5 mm | 43 mm | 5.5 mm | 150 bar | 17 g | standard |
| GQD05BP04BEA | 05 | plug | -04 | TFE/P | 17 mm | 47.5 mm | 43 mm | 5.5 mm | 150 bar | 15 g | bulkhead |
| GQD05BS04EA | 05 | socket | -04 | TFE/P | 17 mm | 47.5 mm | 43 mm | 5.5 mm | 150 bar | 17 g | standard |
| GQD05BP06F | 05 | plug | -06 | FPM | 17 mm | 39.6 mm | 43 mm | 5.5 mm | 150 bar | 14 g | standard |
| GQD05BS06F | 05 | socket | -06 | FPM | 17 mm | 47.5 mm | 43 mm | 5.5 mm | 150 bar | 18 g | standard |
| GQD08BP06F | 08 | plug | -06 | FPM | 24 mm | 49.1 mm | 58 mm | 8.5 mm | 100 bar | 26 g | standard |
| GQD08BS06F | 08 | socket | -06 | FPM | 24 mm | 58.6 mm | 58 mm | 8.5 mm | 100 bar | 38 g | standard |
| GQD08BP08F | 08 | plug | -08 | FPM | 24 mm | 51.6 mm | 58 mm | 8.5 mm | 100 bar | 30 g | standard |
| GQD08BS08F | 08 | socket | -08 | FPM | 24 mm | 61.1 mm | 58 mm | 8.5 mm | 100 bar | 42 g | standard |



GOODRIDGE

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

G-LINK PULL-TYPE

1. CHOOSE SEAL TYPE:

| Seal type | Chemical description | Operating temperatures | Fluids |
|-----------|----------------------|------------------------|------------------------------|
| FPM B | Fluorocarbon | -20°C to 200°C | Fuel, Ethanol, Vegetable oil |



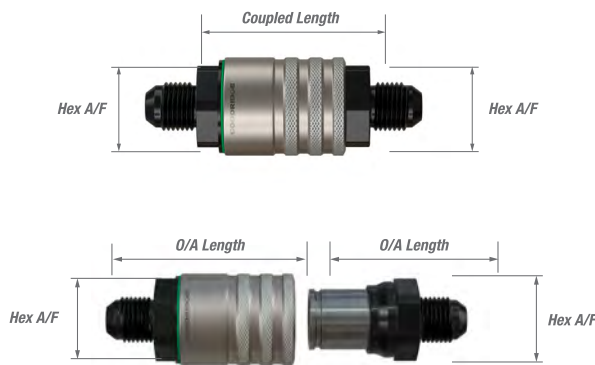
2. CHOOSE CONFIGURATION:

| AN | JIC/UNF | Nominal size | Body ID (mm) |
|-----|-------------|--------------|--------------|
| -06 | 9/16 x 18 | -08 | 8 |
| -08 | 3/4 x 16 | -08 | 8 |
| -12 | 1 1/16 x 12 | -14 | 14 |

G-Link Pull type

The pull type uses a locking mechanism designed for single handed operation, a 'pull' of the outer sleeve will couple/uncouple the G-Link with no separate actuation required for operation. To verify the correct connection, the female half is equipped with a green indicator ring. The indicator ring can alternatively be replaced by a retaining clamp. (This can only be attached when the halves are coupled and eliminates the risk of unintentional coupling). Additionally, the whole operating mechanism is O-ring sealed to achieve particular suitability for rough conditions and to reduce environmental effects. Both halves, plug and socket, are equipped with self-acting valves to stop fluid loss and air ingress. The pull type can hold pressure up to 150 bar (AN-06 & AN-08). Available in JIC/UNF AN-06, AN-08 & AN-12 thread fits.

Plugs and Sockets are ordered separately



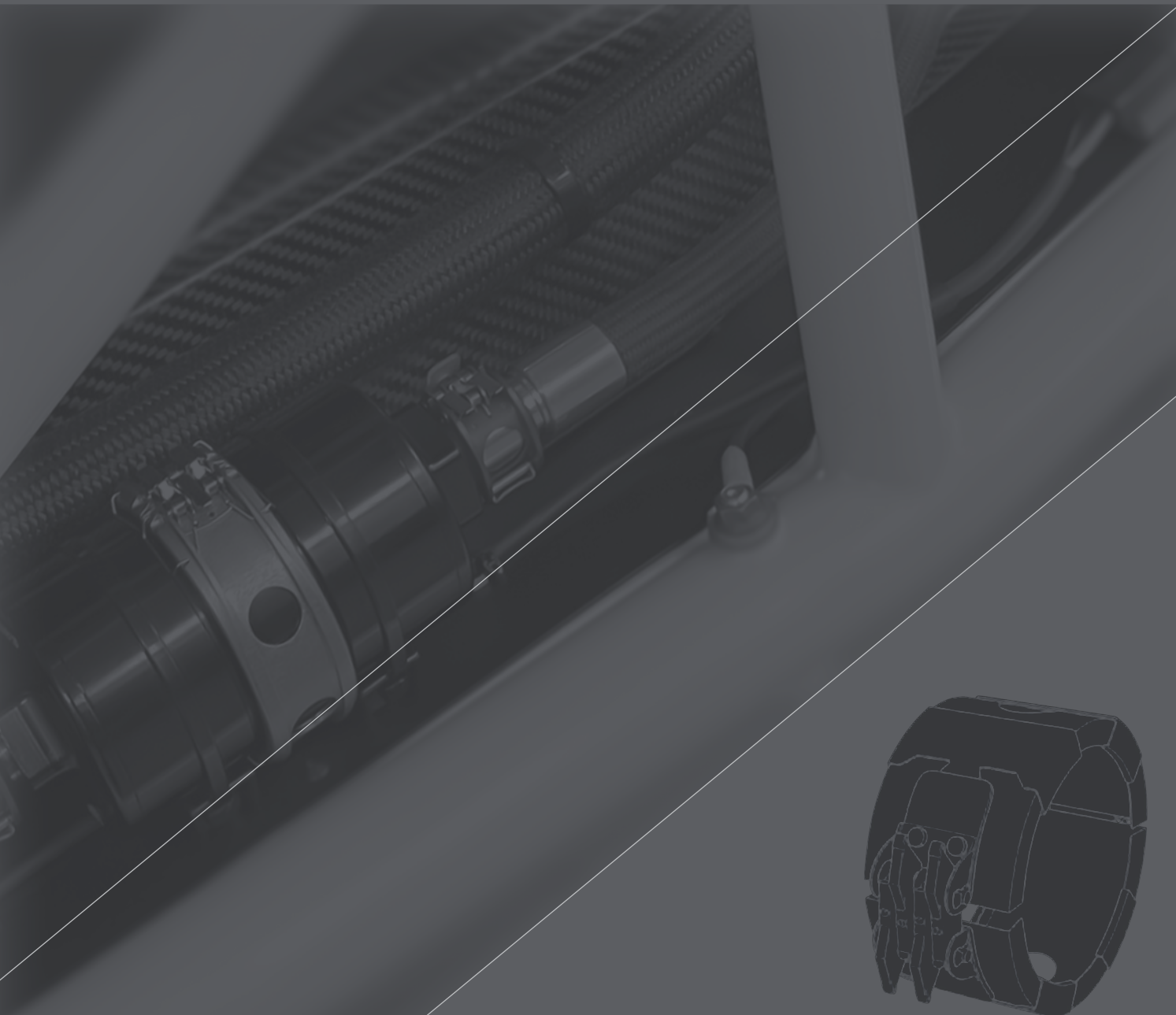
3. SELECT PART NO:

| Part No. | Nominal size | Part | Dash | Type | Seal | Hex A/F | O/A Length | Coupled Length | Nominal Ø | MWP | Weight |
|-------------|--------------|--------|------|----------|------|---------|------------|----------------|-----------|---------|--------|
| GQD08PP06F | 08 | plug | -06 | standard | FPM | 27 mm | 42.6 mm | 52.6 mm | 8.0 mm | 150 bar | 36 g |
| GQD08PP06BF | 08 | plug | -06 | bulkhead | FPM | 27 mm | 53.6 mm | 52.6 mm | 8.0 mm | 150 bar | 39 g |
| GQD08PS06F | 08 | socket | -06 | standard | FPM | 24 mm | 52 mm | 52.6 mm | 8.0 mm | 150 bar | 56 g |
| GQD08PS06LF | 08 | socket | -06 | lanyard | FPM | 24 mm | 52 mm | 52.6 mm | 8.0 mm | 150 bar | 60 g |
| GQD08PP08F | 08 | plug | -08 | standard | FPM | 27 mm | 45.1 mm | 52.6 mm | 8.0 mm | 150 bar | 38 g |
| GQD08PS08F | 08 | socket | -08 | standard | FPM | 24 mm | 54.5 mm | 52.6 mm | 8.0 mm | 150 bar | 59 g |
| GQD08PS08LF | 08 | socket | -08 | lanyard | FPM | 24 mm | 54.5 mm | 52.6 mm | 8.0 mm | 150 bar | 64 g |
| GQD14PP12F | 14 | plug | -12 | standard | FPM | 36 mm | 56.1 mm | 64.6 mm | 14.0 mm | 100 bar | 84 g |
| GQD14PS12F | 14 | socket | -12 | standard | FPM | 32 mm | 71.1 mm | 64.6 mm | 14.0 mm | 100 bar | 140 g |



GOODRIDGE

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10

WIGGINS / HYDRAFLOW
FLEXIBLE COUPLINGS

GOODRIDGE

Wiggins and Hydraflow

Goodridge supplies Adel Wiggins and Hydraflow quick release couplings; typically used for connecting hard tube to flexible hose of 0.5" - 4" outer diameter. Popular for use in motorsport, aerospace, marine and industrial applications, both connectors are operable using one hand and feature locking latch designs to eliminate the need for using locking safety wire; saving a considerable amount of time when critical. Suitable for low/medium pressure applications – operating pressure 125 PSI. Weld ferrules are available for both connector types, from AN-08 to AN-64 fitments. O-Rings are required and available separately.

Fluid applications:

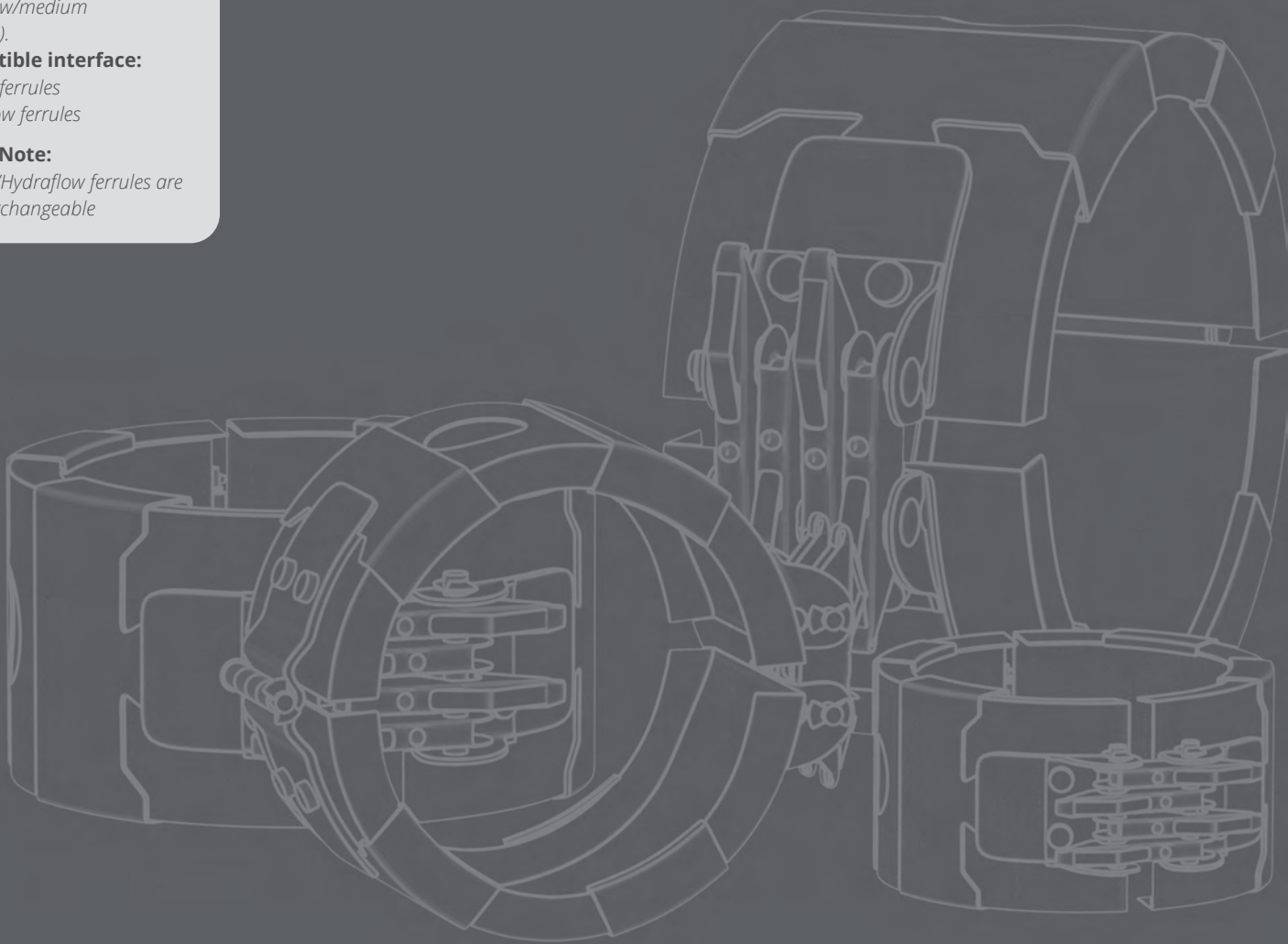
*Fuel, Oil, Water, Coolant
& Air (Low/medium
pressure).*

Compatible interface:

*Wiggins ferrules
Hydraflow ferrules*

Please Note:

*Wiggins/Hydraflow ferrules are
not interchangeable*



Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

W991**Additional information**

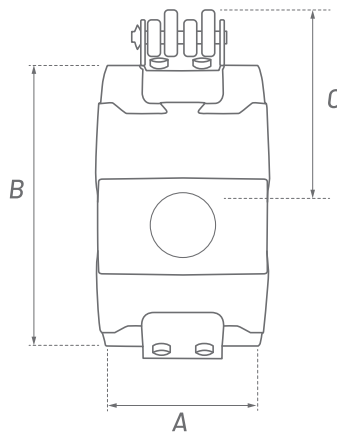
Flexibility: (Max. angular misalignment)
± 4° total angular tube flexure)

Flexure capability: 28.000 per 3° flexure

Axial movement: Up to +1/8 inch from initially centred.

Electrical bonding: (Resistance)
Conforms to MIL-B5087.class SA (< 1 ohm)

Qualification specification: MIL-C-22263

**Wiggins Coupling**

Wiggins W900 Clamshell Couplings are “quick release” couplings designed for use with low/medium pressure (Operating pressure 125 PSI) fabricated aluminium, water, oil and air. The unique design of the clamp allows for +/- 4° of angular misalignment and also 6.35mm total axial movement with rigid pipe/ tube assemblies. In addition, Goodridge manufacture and supply a range of compatible weld ferrules, sleeves and light weight fittings designed to connect directly to Wiggins W900 couplings – available in Goodridge G-Line Ultra 960, 711 & 4000 series. The W900 meets the military and aerospace specification AS1650 and MIL-C-22263.

Operating pressure:

125 psi

Proof pressure:

250 psi

Burst pressure:

375 psi

Operating temperature:

-120°F to +800°F (depending on coupling material)

Seals:

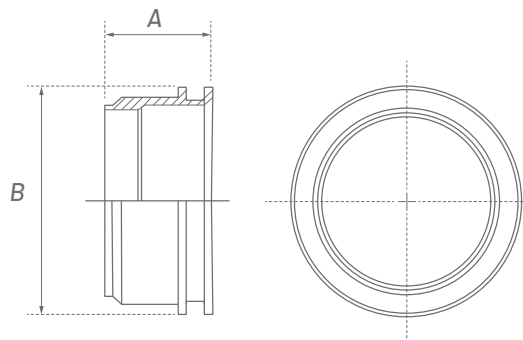
Uses standard AS568 O-Ring sizes provided by user, with O-Ring material selected to suit the application.

| Part No. | Outer tube Ø | Material | A max. | B max. | C max. | Weight | O-Ring ref. | Sleeve ref. |
|-----------|--------------|----------|--------|--------|--------|-----------|-------------|-------------|
| W991-08DE | 0,500" | D | 0.739" | 0.851" | 0.90" | 0.034 lbs | FCO-08V | W908-08D |
| W991-10DE | 0,625" | D | 0.739" | 0.976" | 0.96" | 0.038 lbs | FCO-10V | W908-10D |
| W991-12DE | 0,750" | D | 0.829" | 1.156" | 1.04" | 0.043 lbs | FCO-12V | W908-12D |
| W991-16DE | 1" | D | 0.923" | 1.432" | 1.16" | 0.052 lbs | FCO-16V | W908-16D |
| W991-20DE | 1,250" | D | 0.923" | 1.682" | 1.27" | 0.058 lbs | FCO-20V | W908-20D |
| W991-24DE | 1,500" | D | 0.923" | 1.952" | 1.40" | 0.062 lbs | FCO-24V | W908-24D |
| W991-28DE | 1,750" | D | 0.923" | 2.211" | 1.52" | 0.070 lbs | FCO-28V | W908-28D |
| W991-32DE | 2" | D | 0.989" | 2.505" | 1.66" | 0.083 lbs | FCO-32V | W908-32D |
| W991-40DE | 2,5" | D | 0.989" | 2.996" | 1.90" | 0.097 lbs | FCO-40V | W908-40D |
| W991-48DE | 3" | D | 0.989" | 3.554" | 2.17" | 0.144 lbs | FCO-48V | W908-48D |
| W991-56DE | 3,5" | D | 0.989" | 4.008" | 2.43" | 0.176 lbs | FCO-56V | W908-56D |

Wiggins weld ferrule

Weld ferrule for Wiggins clamshell couplings.

W903



| Part No. | Tube OD | Mat | A max. | B max. | Weight | O-Ring |
|----------|---------|-----|--------|--------|-----------|---------|
| W903-08D | 0,500" | D | 0.749" | 0.689" | 0.010 lbs | FCO-08V |
| W903-10D | 0,625" | D | 0.749" | 0.814" | 0.012 lbs | FCO-10V |
| W903-12D | 0,750" | D | 0.783" | 0.994" | 0.016 lbs | FCO-12V |
| W903-16D | 1" | D | 0.838" | 1.270" | 0.022 lbs | FCO-16V |
| W903-20D | 1,250" | D | 0.838" | 1.520" | 0.027 lbs | FCO-20V |
| W903-24D | 1,500" | D | 0.838" | 1.790" | 0.033 lbs | FCO-24V |
| W903-28D | 1,750" | D | 0.838" | 2.040" | 0.038 lbs | FCO-28V |
| W903-32D | 2" | D | 0.854" | 2.313" | 0.047 lbs | FCO-32V |
| W903-40D | 2,5" | D | 0.854" | 2.813" | 0.056 lbs | FCO-40V |
| W903-48D | 3" | D | 0.854" | 3.313" | 0.069 lbs | FCO-48V |
| W903-56D | 3,5" | D | 0.854" | 3.823" | 0.081 lbs | FCO-56V |

Wiggins O-ring

FCO



WIGGINS O-RING

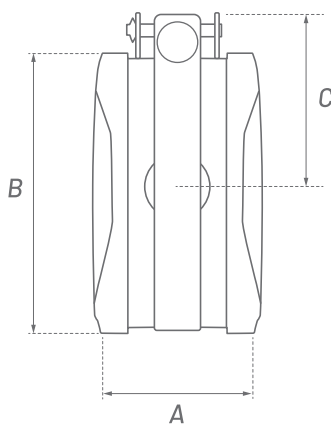
| Part No. | For connector/ferrule |
|----------|-----------------------|
| FCO-08V | -08 |
| FCO-10V | -10 |
| FCO-12V | -12 |
| FCO-16V | -16 |
| FCO-20V | -20 |
| FCO-24V | -24 |
| FCO-28V | -28 |
| FCO-32V | -32 |
| FCO-40V | -40 |
| FCO-48V | -48 |
| FCO-56V | -56 |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

14J21**Hydraflow clamshell coupling features:**

- Lightweight
- Flexible
- Durable
- Safety Strap
- Single handed operation
- Industry standard flanges
- Integral bonding wires

**Hydraflow Coupling**

Hydraflow specialises in creating engineered solutions for moving low pressure fluid within high technology platforms.

The Hydraflow 14J21 Clamshell is a threadless flexible coupling with a unique safety feature for fluid transfer in motorsport applications and used with industry standard flanges.

Goodridge manufacture and supply a range of compatible weld ferrules, sleeves and light weight fittings designed to connect directly to Hydraflow couplings – available in Goodridge G-Line Ultra 960, 711 & 4000 series.

Operating pressure:

-08 to -12 = 500 PSIG

-16 to -64 = 155 PSIG

Proof pressure:

-08 to -12 = 750 PSIG

-16 to -64 = 227 PSIG

Burst pressure:

-08 to -12 = 1000 PSIG

-16 to -64 = 382 PSIG

Operating temperature:

-65°F to +450°F (depending on coupling material)

Notes:

The coupling meets the performance requirements of AS1650

| Part No. | Outer tube Ø | Material | A max. | B max. | C max. | Weight | O-Ring ref. |
|-----------|--------------|----------|--------|--------|--------|-----------|---------------|
| 14J21-08A | 0.500" | D | 0.85" | 1.06" | 0.89" | 0.033 lbs | 150-08-015V75 |
| 14J21-10A | 0.625" | D | 0.85" | 1.16" | 0.95" | 0.036 lbs | 150-10-017V75 |
| 14J21-12A | 0.750" | D | 0.95" | 1.27" | 1.04" | 0.046 lbs | 150-12-117V75 |
| 14J21-16A | 1.000" | D | 1.04" | 1.49" | 1.18" | 0.061 lbs | 150-16-214V75 |
| 14J21-20A | 1.250" | D | 1.04" | 1.74" | 1.29" | 0.069 lbs | 150-20-218V75 |
| 14J21-24A | 1.500" | D | 1.04" | 2.03" | 1.43" | 0.078 lbs | 150-24-222V75 |
| 14J21-28A | 1.750" | D | 1.04" | 2.24" | 1.55" | 0.084 lbs | 150-28-224V75 |
| 14J21-32A | 2.000" | D | 1.08" | 2.53" | 1.69" | 0.101 lbs | 150-32-226V75 |
| 14J21-36A | 2.250" | D | 1.08" | 2.87" | 1.80" | 0.112 lbs | 150-36-228V75 |
| 14J21-40A | 2.500" | D | 1.09" | 3.08" | 1.91" | 0.130 lbs | 150-40-230V75 |
| 14J21-48A | 3.000" | D | 1.13" | 3.69" | 2.18" | 0.187 lbs | 150-48-234V75 |
| 14J21-56A | 3.500" | D | 1.13" | 4.19" | 2.44" | 0.223 lbs | 150-56-238V75 |
| 14J21-64A | 4.000" | D | 1.13" | 4.79" | 2.68" | 0.248 lbs | 150-64-242V75 |

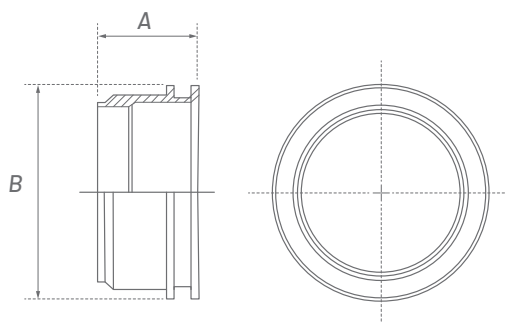
Hydraflow weld ferrule

Weld ferrule for Hydraflow clamshell couplings.

14F



HYDRAFLOW



| Part No. | Tube OD | Mat | A max. | B max. | Weight | O-Ring |
|-----------|---------|-----|--------|--------|-----------|---------------|
| 14F03-08D | 0.500" | D | 0.739" | 0,685" | 0.010 lbs | 150-08-015V75 |
| 14F03-10D | 0.625" | D | 0.739" | 0,810" | 0.013 lbs | 150-10-017V75 |
| 14F03-12D | 0.750" | D | 0.773" | 0,990" | 0.017 lbs | 150-12-117V75 |
| 14F03-16D | 1.000" | D | 0.828" | 1,266" | 0.023 lbs | 150-16-214V75 |
| 14F03-20D | 1.250" | D | 0.828" | 1,516" | 0.030 lbs | 150-20-218V75 |
| 14F03-24D | 1.500" | D | 0.828" | 1,786" | 0.035 lbs | 150-24-222V75 |
| 14F03-28D | 1.750" | D | 0.828" | 2,036" | 0.042 lbs | 150-28-224V75 |
| 14F03-32D | 2.000" | D | 0.844" | 2,309" | 0.051 lbs | 150-32-226V75 |
| 14F03-36D | 2.250" | D | 0.844" | 2,559" | 0.058 lbs | 150-36-228V75 |
| 14F03-40D | 2.500" | D | 0.844" | 2,809" | 0.065 lbs | 150-40-230V75 |
| 14F03-48D | 3.000" | D | 0.844" | 3,309" | 0.079 lbs | 150-48-234V75 |
| 14F03-56D | 3.500" | D | 0.844" | 3,821" | 0.091 lbs | 150-56-238V75 |
| 14F03-64D | 4.000" | D | 0.844" | 4,328" | 0.111 lbs | 150-64-242V75 |

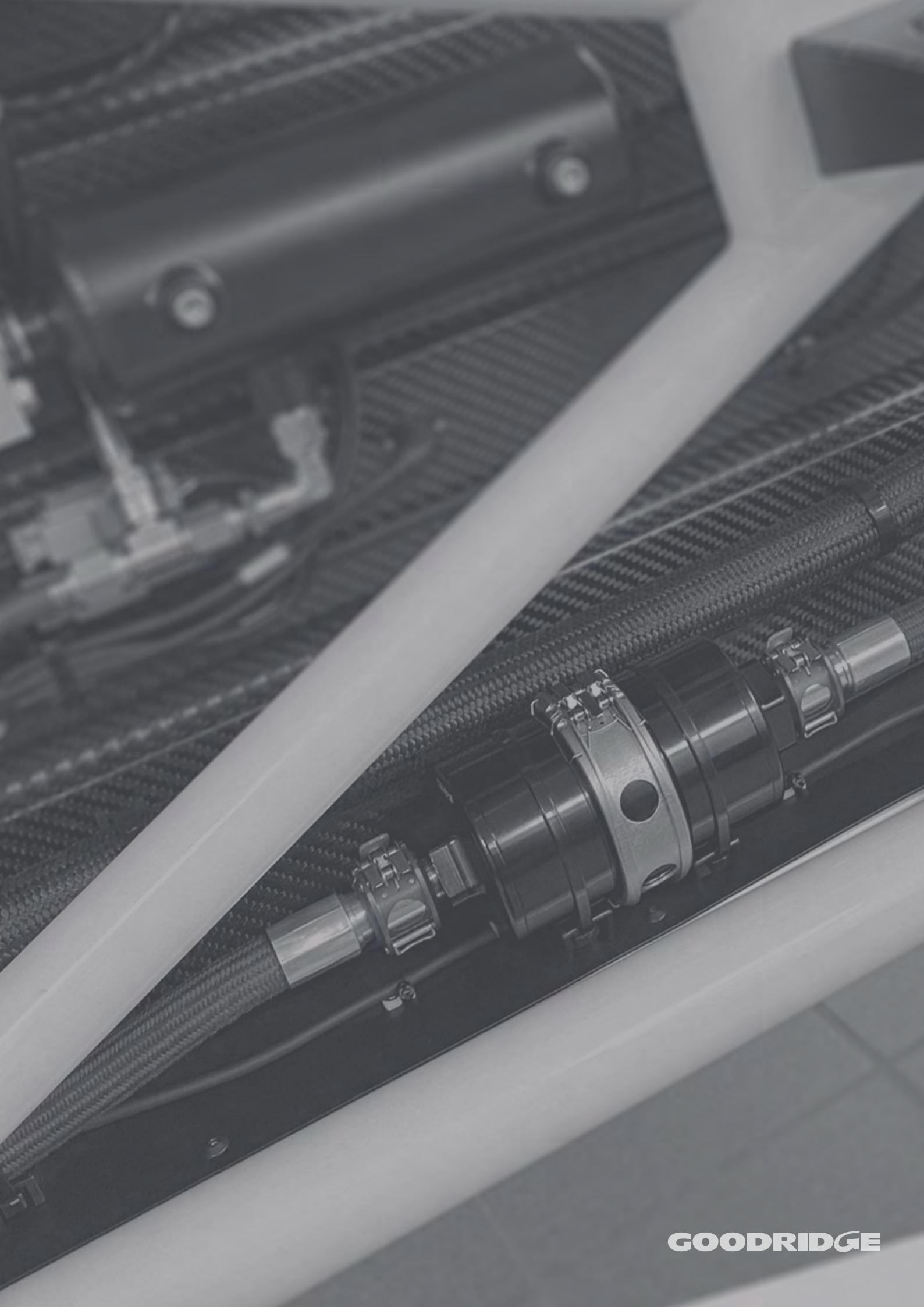
Hydraflow O-ring

150



HYDRAFLOW O-RING

| Part No. | For connector/ferrule |
|---------------|-----------------------|
| 150-08-015V75 | -08 |
| 150-10-017V75 | -10 |
| 150-12-117V75 | -12 |
| 150-16-214V75 | -16 |
| 150-20-218V75 | -20 |
| 150-24-222V75 | -24 |
| 150-28-224V75 | -28 |
| 150-32-226V75 | -32 |
| 150-36-228V75 | -36 |
| 150-40-230V75 | -40 |
| 150-48-234V75 | -48 |
| 150-56-238V75 | -56 |
| 150-64-242V75 | -64 |



GOODRIDGE

The background is a dark, blurred industrial scene. On the right side, a thick, black industrial cable with a braided outer sheath and a white protective sleeve is visible, extending from the top right towards the center. The rest of the background is out of focus, showing various mechanical parts and structures in shades of gray.

GOODRIDGE

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11

OIL COOLERS

GOODRIDGE

Oil coolers

To compliment the Goodridge hose, fittings and ancillary range, Goodridge also supplies a range of Setrab oil coolers. Used by championship winning race teams world-wide, the track-proven, rugged construction of the Setrab cooler makes it the ideal cooling solution for motorsport and high-performance road use. Goodridge supplies the Setrab ProLine STD range; suitable for the following applications.

- **Engine oil**
- **Transmission oil**
- **Clutch fluid**
- **Brake fluid**
- **Differential oil**
- **Power steering fluid**

In addition, Goodridge offers a range of male/male JIC/UNF adaptors, ready to accept JIC/UNF fittings. Setrab mounting brackets and fasteners can also be purchased separately.

Which Goodridge hose and fittings ranges are compatible?

G-Line Ultra Section 01

G-Line Section 02

600 series Section 03

200 series Section 04

536 series Section 05

Why regulate engine oil temperature?

The engine oil temperature has a direct bearing on performance and engine lifespan. If the oil is too cool it causes excessive frictional drag, hindering performance and not getting the oil hot enough to burn off contaminants. If the oil is too hot it can't lubricate the engine correctly, causing loss of oil pressure; resulting in serious engine wear and damage.

What causes engine oil temperature to fluctuate?

Increase in engine RPM for prolonged periods of time – track driving/racing.

Obstruction of airflow to the sump or existing cooler, modification from original specifications.

Oil circulation through an added turbocharger/supercharger can dissipate heat from the oil system.

What is the optimum oil temperature?

Optimum oil temperatures differ between applications.

Please consult your OEM manufacturer / engine builder for more information.

The Setrab logo is rendered in a bold, stylized font with a white outline and a dark grey fill. The letters are thick and blocky, with a slight shadow effect. The background of the entire page is a dark grey with a faint, repeating pattern of a Setrab oil cooler unit.

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

How do I measure an oil cooler?

The **ProLine STD** range cooler height and width can be specified to fit your bespoke application.

1. Width:

Available in three widths – **Half, Full & Extra.**

| Width | A (mm) | B (mm) | C (mm) | D (mm) |
|-------|--------|--------|--------|--------|
| HALF | 210 | 163 | 130 | 190 |
| FULL | 330 | 283 | 250 | 310 |
| EXTRA | 405 | 325 | 292 | 385 |

*A,B,C & D measurements correspond to diagram

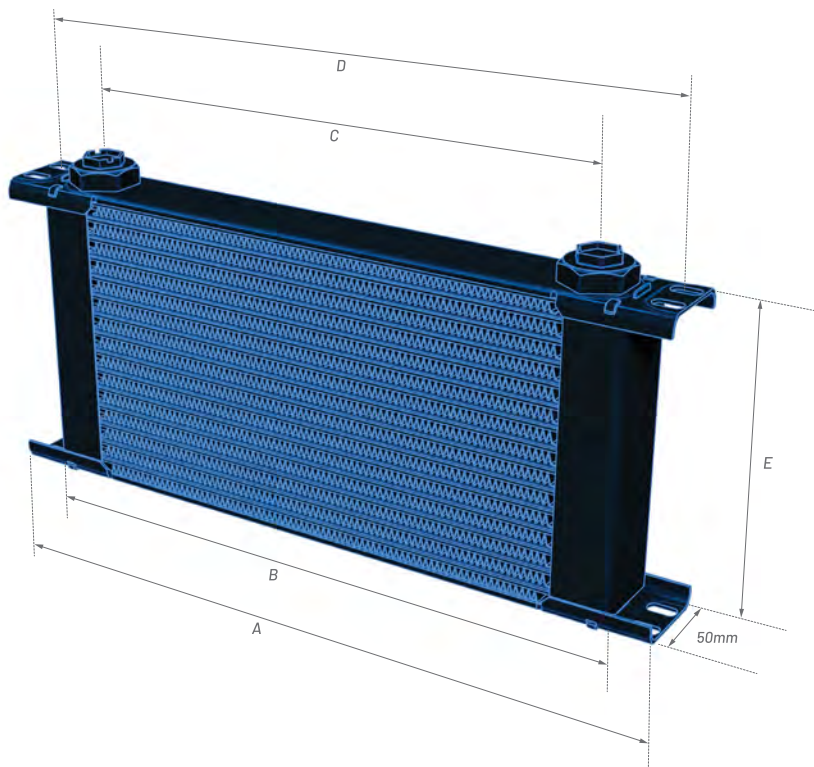
2. Height:

| Rows | E (mm) |
|------|--------|
| 7 | 52 |
| 10 | 75 |
| 13 | 99 |
| 16 | 123 |
| 19 | 146 |
| 25 | 194 |
| 34 | 236 |
| 40 | 310 |
| 50 | 388 |

*E measurement corresponds to diagram

3. Depth:

All Setrab ProLine STD coolers have a depth of 50mm.



Need help? Contact our technical sales team today.

Tel: 01392 369090

Email: sales@goodridge.com

ProLine STD

Oil coolers

Full Setrab range available upon request.

Please contact Goodridge directly.

Technical Specifications**Pressure Pulsation****Endurance:**

200k pulsations, 0-10 bar(g),
2 Hz, 60°C oil temp

Working Pressure:

0-10 bar(g)

Max Pressure:

12 bar(g)

Burst Pressure:

37 bar(g)

Working Temperature:

-40°C to 150°C

Material:

Aluminium alloys

ProLine STD Oil coolers



Full Setrab range available upon request.

Please contact Goodridge directly.

Technical Specifications

Pressure Pulsation

Endurance:

200k pulsations, 0-10 bar(g),
2 Hz, 60°C oil temp

Working Pressure:

0-10 bar(g)

Max Pressure:

12 bar(g)

Burst Pressure:

37 bar(g)

Working Temperature:

-40°C to 150°C

Material:

Aluminium alloys

PROLINE STD PART NUMBERS

Half width

| Part No | Width | Rows | Port size |
|-------------|-------|------|-----------|
| 50-107-7612 | Half | 7 | M22 x 1.5 |
| 50-110-7612 | Half | 10 | M22 x 1.5 |
| 50-113-7612 | Half | 13 | M22 x 1.5 |
| 50-116-7612 | Half | 16 | M22 x 1.5 |
| 50-119-7612 | Half | 19 | M22 x 1.5 |
| 50-125-7612 | Half | 25 | M22 x 1.5 |
| 50-150-7612 | Half | 50 | M22 x 1.5 |

Full width

| Part No | Width | Rows | Port size |
|-------------|-------|------|-----------|
| 50-607-7612 | Full | 7 | M22 x 1.5 |
| 50-610-7612 | Full | 10 | M22 x 1.5 |
| 50-613-7612 | Full | 13 | M22 x 1.5 |
| 50-616-7612 | Full | 16 | M22 x 1.5 |
| 50-619-7612 | Full | 19 | M22 x 1.5 |
| 50-625-7612 | Full | 25 | M22 x 1.5 |
| 50-634-7612 | Full | 34 | M22 x 1.5 |
| 50-640-7612 | Full | 40 | M22 x 1.5 |

Extra width

| Part No | Width | Rows | Port size |
|-------------|-------|------|-----------|
| 50-910-7612 | Extra | 10 | M22 x 1.5 |
| 50-915-7612 | Extra | 15 | M22 x 1.5 |
| 50-919-7612 | Extra | 19 | M22 x 1.5 |
| 50-925-7612 | Extra | 25 | M22 x 1.5 |

To use AN JIC/UNF fittings you will need to purchase x2 adaptors (inc x2 O-rings), per cooler. In addition Setrab offer a range of brackets for a robust and neat installation.



Need help? Contact our technical sales team today.

Tel: 01392 369090

Email: sales@goodridge.com

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

MALE/MALE ADAPTORS:

To use AN JIC/UNF fittings for both ports on the cooler you will need to purchase x2 adaptors

| Part No | Dash size <i>(To engine)</i> | Thread type <i>(To cooler port)</i> |
|-------------|---------------------------------|--|
| 22-09475-01 | AN06 (9/16 x 18) | M22 x 1.5 |
| 22-09476-01 | AN08 (3/4 x 16) | M22 x 1.5 |
| 22-09477-01 | AN10 (7/8 x 14) | M22 x 1.5 |
| 22-09478-01 | AN12 (1 1/16 x 12) | M22 x 1.5 |
| 22-09479-01 | AN16 (1 5/16 x 12) | M22 x 1.5 |

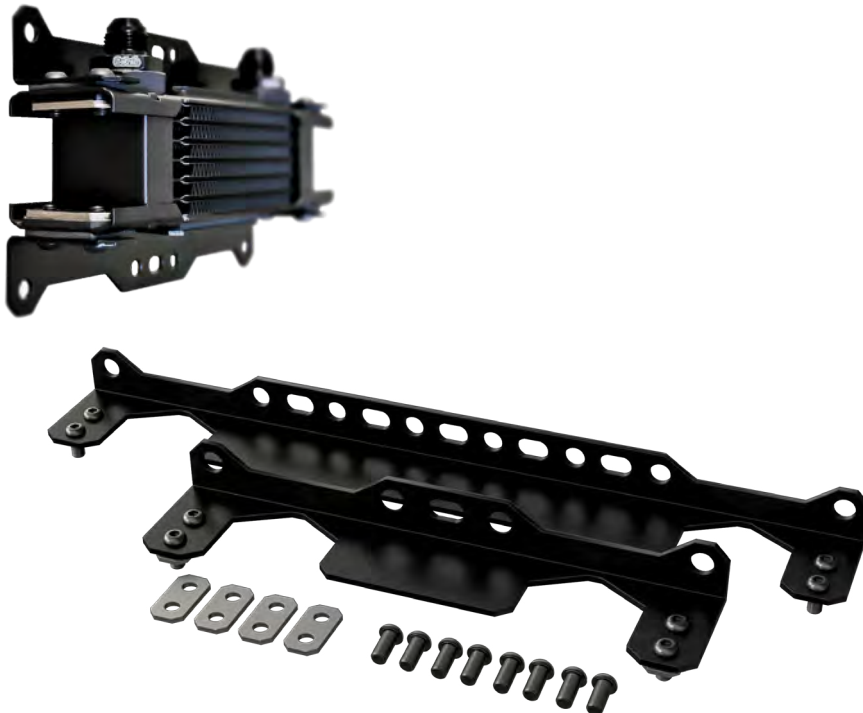
O-ring supplied with adaptor

O-RING

| Part No | Size |
|---------|------|
| 25-233 | M22 |

BRACKET KITS

| Part No | Width | Kit Includes |
|---------|-------|---|
| 25-932 | Half | x2 brackets, x4 silent-blocks & x8 M6 100 bolts |
| 25-933 | Full | x2 brackets, x4 silent-blocks & x8 M6 100 bolts |
| 25-944 | Extra | x2 brackets, x4 silent-blocks & x8 M6 100 bolts |

**ProLine STD**
Oil coolers

GOODRIDGE



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12

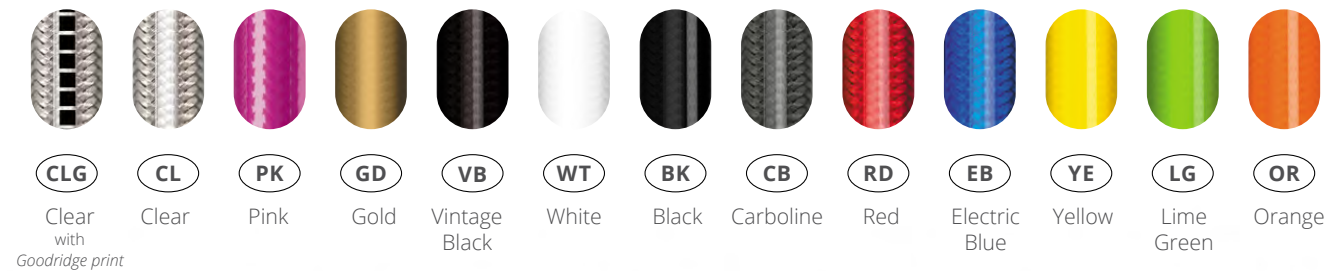
BRAKE AND CLUTCH
LINE KITS

GOODRIDGE

Car and Motorcycle Brake and Clutch Line Kits

Goodridge stainless steel brake and clutch line kits are available to suit all models of car and motorcycle. Kits feature the finest quality hose, consisting of a PTFE inner with a stainless-steel outer braid. This eliminates the spongy feel under arduous conditions, giving greater braking efficiency or clutch operation.

- *Increased confidence and control*
- *Eliminates spongy feel*
- *Improved braking efficiency*
- *Abrasion and corrosion resistant*
- *TUV, DOT, ADR and ISO approved*
- *Direct replacement for OEM*





PREMIUM PERFORMANCE BRAKE LINES

RACE PROVEN TECHNOLOGY

GOODRIDGE

- GREATER BRAKING EFFICIENCY
- RESISTANCE TO ABRASION AND CORROSION
- ELIMINATES SPONGINESS UNDER HEAVY BRAKING
- ADDED RELIABILITY, SAFETY AND BRILLIANT LOOKS
- TECHNICALLY SUPERIOR AND RACE PROVEN

**100%
PRESSURE
TESTED**

GOODRIDGE
PREMIUM PERFORMANCE BRAKE LINES



Every kit is tested to 2000psi



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ANCILLARY AND TOOLING

GOODRIDGE

Ancillary

Goodridge supply a range of ancillary parts, essential to high quality race car/ bike builds. In this section you will find lockwire & twisting pliers, P-Clips, hose separators, heat shrink, flame guard, seals, washers, O-rings, valves and filters.

All the small details that are often overlooked but make a safe and reliable, championship winning race car/bike.



Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

LARGE CAPACITY FUEL FILTER

| Part No. | Type | Use | Filter | JIC/UNF |
|----------|--------------|----------|------------|---------------|
| FF572-04 | Gauze filter | Fuel/oil | 149 micron | JIC 7/16 x 20 |
| FF572-06 | Gauze filter | Fuel/oil | 149 micron | JIC 9/16 x 18 |
| FF572-08 | Gauze filter | Fuel/oil | 149 micron | JIC 3/4 x 16 |
| FF572-10 | Gauze filter | Fuel/oil | 149 micron | JIC 7/8 x 14 |

Large capacity fuel filter

A 149 micron fuel or oil filter designed to be placed in line. These filters have a fine mesh filter which can be removed and cleaned.

Application:

All fuel and oil systems.

ROLL OVER VALVES

| Part No. | Type | Application | JIC/UNF |
|------------|------|-------------|-----------|
| ROV-06-FIA | FIA | Fuel | 9/16 x 18 |
| ROV-10-FIA | FIA | Fuel | 7/8 x 14 |

Roll over valves

Goodridge roll-over valves are available in sizes AN-06 and AN-10. Both sizes are FIA approved, providing reliable roll-over function for all motorsport based applications.

Application:

Roll-over shut off

ALLOY CHECK (FLAP) VALVE

| Part No. | JIC/UNF |
|----------|-----------|
| FCV-04 | 7/16 x 20 |
| FCV-06 | 9/16 x 18 |
| FCV-08 | 3/4 x 16 |
| FCV-10 | 7/8 x 14 |

Alloy check valve

Alloy cased flap check valves for low pressure oil and fuel applications.

Application:

All fuel and oil systems. comes with Viton GF seal.

Crush Washers

Copper sealing washers for use with Z1, chrome plated steel, mild steel and stainless fittings.
Aluminium sealing washer for use with aluminium fittings.

Application:

Copper washers:

All stainless steel fittings

Aluminium washers:

Aluminium fittings

Material:

C, D, Z1

CRUSH WASHERS



| Part No. | Mat | ID | Thickness | OD |
|-----------|--------|----------|-----------|----------|
| 44512 | Copper | 6,30 mm | 1,0 mm | 9,80 mm |
| 44514 | Copper | 8,00 mm | 1,0 mm | 11,00 mm |
| 44515 | Alloy | 0,400" | 0,050" | 0,590" |
| 44516 | Copper | 10,00 mm | 0,050" | 0,590" |
| 44517 | Copper | 10,00 mm | 2,0 mm | 14,0 mm |
| 44518 | Copper | 0,437" | 0,050" | 0,685" |
| 44518HD | Copper | 11,50 mm | 1,50 mm | 16,00 mm |
| 44519 | Copper | 12,50 mm | 1,30 mm | 15,00 mm |
| 44520 | Copper | 14,50 mm | 1,50 mm | 18,00 mm |
| 44550 | Steel | 10,60mm | 2.00mm | 19,6 mm |
| CUW-M12 | Copper | 12,25 mm | 1,50 mm | 16,00 mm |
| CUW-M14 | Copper | 14,40 mm | 1,20 mm | 18,40 mm |
| CUW-M16 | Copper | 16,00 mm | 1,0 mm | 22,50 mm |
| CUW-M18 | Copper | 18,20 mm | 2,0 mm | 24,20 mm |
| CUW-M22 | Copper | 22,30 mm | 1,5 mm | 26,80 mm |
| CW901-04 | Alloy | 0,443" | 0,050" | 0,683" |
| CW901-06 | Alloy | 0,568" | 0,050" | 0,808" |
| CW901-08 | Alloy | 0,755" | 0,050" | 0,995" |
| CW901-10 | Alloy | 0,880" | 0,050" | 1,120" |
| CW901-12 | Alloy | 1,068" | 0,050" | 1,370" |
| CW901-M12 | Alloy | 12,2 mm | 1,1 mm | 17,9 mm |
| CW901-M14 | Alloy | 14,5 mm | 1,4 mm | 19,0 mm |
| CW901-M16 | Alloy | 16,3 mm | 1,4 mm | 19,8 mm |
| CW901-M18 | Alloy | 18,2 mm | 2,0 mm | 24,20mm |

Bonded seals

High quality bonded Dowty sealing washers in a range of sizes.

Application:

Steel fittings

Material:

Mild Steel and Nitrile

Temperature:

-40°C / -40°F to 108°C / 225°F

BONDED SEALS (DOWTY)



| Part No. | Mat | ID | OD | Note |
|----------|-------|--------|--------|-------------------------------|
| DW-09 | Steel | 0,460" | 0,750" | JIC 7/16 - Met 11 mm |
| DW-10 | Steel | 0,585" | 0,875" | JIC 9/16 - Met 14 mm |
| DW-11 | Steel | 0,650" | 1,000" | JIC 5/8 - Met 16 mm |
| DW-20A | Steel | 0,407" | 0,625" | BSP 1/8 - JIC 3/8 - Met 10 mm |
| DW-21B | Steel | 0,540" | 0,810" | BSP 1/4 - JIC 1/2 - Met 12 mm |
| DW-23C | Steel | 0,679" | 0,940" | BSP 3/8 |
| DW-24CC | Steel | 0,744" | 1,060" | JIC 3/4 - Met 18 mm |
| DW-25D | Steel | 0,847" | 1,125" | BSP 1/2 - Met 20 mm |
| DW-26E | Steel | 0,942" | 1,250" | BSP 5/8 - JIC 7/8 - Met 22 mm |
| DW-27F | Steel | 1,064" | 1,375" | BSP 3/4 - JIC 1 - Met 24 mm |
| DW-28FF | Steel | 1,095" | 1,520" | JIC 1 1/16 - Met 26 mm |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

STAT-O-SEALS

| Part No. | Mat | ID | Thickness | OD |
|----------|-----|-------|-----------|---------|
| SS902-04 | D | 1/4" | 1,25 mm | 12,7 mm |
| SS902-05 | D | 5/16" | 1,25 mm | 15,3 mm |
| SS902-06 | D | 3/8" | 1,25 mm | 16,9 mm |
| SS902-07 | D | 7/16" | 1,25 mm | 19,2 mm |
| SS902-08 | D | 1/2" | 1,25 mm | 22,2 mm |
| SS902-09 | D | 9/16" | 1,25 mm | 27,0 mm |
| SS902-10 | D | 5/8" | 1,25 mm | 30,2 mm |
| SS902-12 | D | 3/4" | 1,5 mm | 33,4 mm |
| SS902-14 | D | 7/8" | 1,5 mm | 28,3 mm |

Stat-o-seals

The stat-o-seal is the best sealing washer available. Consisting of a synthetic rubber O-Ring mechanically locked in the ID of an aluminium crush washer. This provides the advantages of an O-Ring seal, but with the ease of fitting.

Application:

Aluminium fittings

Material:

Aluminium and rubber

Temperature:

-30°C / -22°F to 233°C / 450°F

BUNA O-RING

| Part No. | Section | int. Ø |
|-----------|---------|----------|
| OR6290-03 | 1,6 mm | 7,65 mm |
| OR6290-04 | 1,8 mm | 8,92 mm |
| OR6290-06 | 2,0 mm | 11,89 mm |
| OR6290-08 | 2,2 mm | 16,36 mm |
| OR6290-10 | 2,5 mm | 19,18 mm |
| OR6290-12 | 2,9 mm | 23,47 mm |

OR6290 Buna o ring**Fitting type:**

O-Ring

Application:

Petroleum based products

To suit:

AN920, AN921, AN922, AN814SD and G-Line swivel fittings

Please note:

AN6290 compliant

LOCKNUTS

| Part No. | Thread | To suit | Mat |
|------------|---------------|---------------------------------------|-----|
| 2K8686Z1 | 5/8 Whitworth | 748-03 / 749-31 750-31 / 704 / 746 | Z1 |
| 2K8686C | 5/8 Whitworth | 748-03 / 749-31 750-31 / 704 / 746 | C |
| 318-31C | M10 x 1,00 | 446-31 / 444-31 | C |
| 318-31Z1 | M10 x 1,00 | 446-31 / 444-31 | Z1 |
| 318-M121Z1 | M12 x 1,00 | 446-03-M121 446-04-M121 | Z1 |
| 924-03C | JIC 3/8 x 24 | 443-03 | C |
| 924-03Z1 | JIC 3/8 x 24 | 443-03 | Z1 |
| 924-04Z1 | JIC 7/16 x 20 | 443-04 | Z1 |
| 924-06Z1 | JIC 9/16 x 18 | 832-06 | Z1 |

Locknuts**Material:**

C, P, Z1

Fireproof sleeve

Goodridge braided fire sleeve is engineered for exposure to varying degrees of heat. The thick layer of self-extinguishing silicone polymer shields direct flame exposure, shedding molten metal and glass, whereas the texturized braided fibreglass insulating inner core maintains and stabilises internal temperature whilst minimising surface temperature. Resistant to lubricating oils, fuels, hydraulic fluid, acids, bases and solvents.

Application:

Hose Insulation and Fire Retardant

Temperature:

*Continuous: 500°F / 260°C
Intermittent: 2200°F / 1200°C
Minimum: -65°F / -54°C*

Material:

Silicone & Fibreglass

To suit hose:

All - Flexible and expandable

Colour:

Silver

FIREPROOF SLEEVE



| Part No. | To suit hose | Ext. hose Ø |
|-----------|----------------|-------------|
| FG900-04S | 600-02/-03/-04 | 05 - 08 mm |
| FG900-06S | 200-04/600-06 | 10 - 12 mm |
| FG900-08S | 200-06/600-08 | 12 - 15 mm |
| FG900-12S | 200-08/-10 | 16 - 21 mm |
| FG900-16S | 200-12 | 21 - 24 mm |
| FG900-20S | 200-16 | 25 - 30 mm |

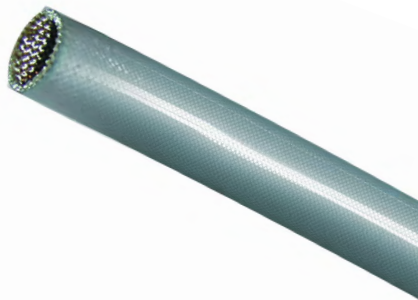
Textalu

An insulative fibreglass sleeving with a silicone coating designed to protect components in high temperature areas where the heavier fireproof sleeving is not required. It provides superior insulation to components that must maintain stable temperatures to assure performance efficiency. The braided construction allows good flexibility in temperatures as low as -40°C.

Temperature:

*Continuous:
-40°F / -40°C
+428°F / +220°C*

TEXTALU



| Part No. | To suit hose | Ext. hose Ø |
|--------------|--------------|-------------|
| TEXTALU-5MM | 600-02 | 5 mm |
| TEXTALU-8MM | 600-03/-04 | 8 mm |
| TEXTALU-10MM | 600-06 | 10 mm |
| TEXTALU-12MM | 200-04 | 12 mm |
| TEXTALU-15MM | 200-06 | 15 mm |
| TEXTALU-22MM | 200-08/-10 | 22 mm |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

EKC622 FLAMEGUARD

| Part No. | To suit hose | Ext. hose Ø |
|-----------|----------------|-------------|
| EKC622-04 | 600-02/-03/-04 | 1/2" |
| EKC622-08 | 200-06/-08 | 3/4" |
| EKC622-12 | 200-10/-12 | 1" |
| EKC622-16 | 200-16 | 1 1/4" |

EKC622 Flameguard

Flameguard. A glass cloth with an aluminium foil surface on one side. Its lightweight construction makes it a very popular heat and fire protector. It is now also available with aramid fibre reinforced cloth for ultimate strength.

Application temperature:
-36°C / 33°F to 180°C / 356°F

REINFORCED PLASTIC

| Part No. | Colour | To suit hose |
|----------|--------|--------------|
| HP-03BK | Black | 600-03 |

HP-03 Reinforced plastic

To suit Motocross and Enduro applications, this hard plastic tubing can be used over your flexible hose and attached to the fork leg or rear swingarm.

Application:
Protective/Rigid covering

Material:
Reinforced Plastic

To suit hose:
600-03

Colour:
Black

PVC HEATSHRINK

| Part No. | To suit hose | Colour |
|------------|----------------|-------------|
| HS760-03BK | 600-03/-04 | Black |
| HS760-03CL | 600-03/-04 | Transparent |
| HS760-06BK | 200-04/-06/-08 | Black |
| HS760-06CL | 200-04/-06/-09 | Transparent |
| HS760-10BK | 200-10 | Black |

HS760 Heatshrink

Self-extinguishing PVC protective heat shrink, provides protection against corrosion and abrasion. This tough, hard wearing material may be fitted to braided hose or any other automotive component and shrunk to size by hot air, with a maximum reduction of 35%.

Application:
Protective covering

Material:
PVC

To suit hose:
600, 200, 910

Colour:
Black = BK / Clear = CL

Heatshrink

Popular amongst motorsport applications; Raychem is a heat shrink covering offering flexibility, chemical and abrasion resistance.

(Glue impregnated and thin wall versions available on request)

- Long-term fluid and heat resistance
- Resistance to fuels and hydraulic fluids
- Flexible
- Flame-retardant

Application:

Heat, abrasion and chemical resistant covering. Withstands temperatures from -75°C to 150°C.

Material:

Raychem

To suit hose:

600, 200, 210, 910, 811

Colour:

Black

RAYCHEM HEATSHRINK



| Part No. | To suit hose | Colour |
|-----------|--------------|--------|
| DR-25-1/4 | 600-02 | Black |
| DR-25-3/8 | 600-03/-04 | Black |
| DR-25-1/2 | 200-06 | Black |
| DR-25-3/4 | 200-06/-08 | Black |
| DR-25-1 | 200-10/-12 | Black |

FRP Spiral binding

A flexible reinforced polythene spiral binding; provides protection to both hose and paint work.

Application:

Hose protection

Material:

Reinforced Polythene

To suit hose:

200, 210, 600

Colour:

Black

SPIRAL BINDING



| Part No. | Colour | To suit hose |
|----------|--------|--------------|
| FRP-2BK | Black | 600-03/-04 |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

HOSE SEPARATORS

| Part No. | To suit hose | Colour |
|-------------|---------------------|--------|
| PHS-03CL | 600-03 | Silver |
| PHS-03CL-CF | 600-03 covered hose | Silver |
| PHS-03DB | 600-03 | Blue |
| PHS-03DB-CF | 600-03 covered hose | Blue |
| PHS-03DR | 600-03 | Red |
| PHS-03DR-CF | 600-03 covered hose | Red |
| PHS-06DB | 200-06 | Blue |
| PHS-06DR | 200-06 | Red |
| PHS-08DB | 200-08 | Blue |
| PHS-08DR | 200-08 | Red |

PHS Hose separators

Available in a range of dash sizes to suit your application. Manufactured from billet aluminium.

Fitting Type:

Hose separator

Application:

Locating and routing hoses

Anodised Aluminium**Colours:**

CL = Silver, DR = Red, DB = Blue

To suit hose:

G-Line Ultra, G-Line, 200, 210 and 600

CLAMPS

| Part No. | To suit hose | Colour | Bore size |
|------------|----------------------|-----------|-----------|
| PLCC-03 | 600-02 | Aluminium | 3/16" |
| PLCC-04 | 600-03 | Aluminium | 1/4" |
| PLCC-04DBU | 600-03 | Blue | 1/4" |
| PLCC-04DRD | 600-03 | Red | 1/4" |
| PLCC-05 | 600-04 & -03 covered | Aluminium | 5/16" |
| PLCC-05DBU | 600-04 & -03 covered | Blue | 5/16" |
| PLCC-05DRD | 600-04 & -03 covered | Red | 5/16" |
| PLCC-06 | 600-05 | Aluminium | 3/8" |
| PLCC-08 | 200-06 | Aluminium | 1/2" |
| PLCC-10 | 200-08 | Aluminium | 5/8" |
| PLCC-12 | 200-10 | Aluminium | 3/4" |
| PLCC-14 | 200-14 | Aluminium | 7/8" |
| PLCC-16 | 200-12 | Aluminium | 1" |
| PLCC-20 | 200-16 | Aluminium | 1 1/4" |
| PLCC-24 | 200-20 | Aluminium | 1 1/2" |

PLCC Clamps

Aircraft quality P-Clips to support and locate hoses inside and outside the vehicle. Secured by rivet or bolt. AN-04 and AN-05 fitments are available in a range of anodised colours.

Material:

D = Aluminium

Anodised Aluminium**Colours:**

BU = Blue, RD = Red

Example Part No:

PLCC-03GD = Anodised Aluminium Gold

STAINLESS STEEL LOCKWIRE

| Part No. | Diameter |
|----------|----------|
| LWD594 | 0,45 mm |
| LWD595 | 0,51 mm |
| LWD596 | 0,62 mm |
| LWD597 | 0,81 mm |
| LWD598 | 1,01 mm |

Stainless steel Lockwire

Aircraft grade 302 Stainless Steel lock wire manufactured to military specifications. Use with TP598 lock wire twist pliers for quick and easy installation.

Material:

Stainless Steel

Application:

Prevents fasteners from vibrating loose.

Package weight:

0.45KG

Alloy spanners

Hard anodised alloy wrenches specifically designed for use with Goodridge alloy hose ends and adaptors. Short handles allow use in confined spaces and discourage overtightening. Available in both double ended and single ended designs.

AW760-SET contains wrenches from -04 to -12

ALLOY SPANNERS



| Part No. | A Hex | | B Hex | |
|-----------|---------|---------|---------------|---------|
| AW760-04D | 9/16" | 14.28mm | 5/8" | 15.88mm |
| AW760-06D | 11/16" | 17.46mm | 3/4" | 19.05mm |
| AW760-08D | 3/4" | 19.05mm | 7/8" | 22.22mm |
| AW760-10D | 1" | 25.40mm | 1 1/16" | 26.99mm |
| AW760-12D | 1 3/16" | 30.16mm | 1 1/4" | 31.75mm |
| AW760-16D | 1 7/16" | 36.51mm | 1 1/2" | 38.10mm |
| AW760-SET | -4 -12 | | 6 piece kit - | |

G-Heat Team & G-Heat Clubman

The Goodridge G-Heat Engine Pre-Heater is a professional, simple-to-use solution to cold-starting a competition engine.

Voltage - 230V
Hose bore size - 16mm

G-HEAT TEAM & CLUBMAN



| Part No. | Description |
|----------|----------------|
| GPH01 | G-Heat Team |
| GPH02 | G-Heat Clubman |

G-Heat Team - Supplied with professional G-link dry break connections and Kevlar braided convoluted hose.

G-Team Clubman - Supplied with Staubli RMI dry break fittings and nitrile rubber hose with non-abrasive fibre braid.

Both options include 2.5m long hoses, 2 x dry break fittings and 2 x aluminium weld on bosses for the fittings to attach to, and a two pin European plug.

Fuel sampling system

FIA Approval fuel sampling system to comply with current MSA British Championship regulations.

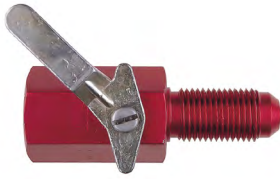
FUEL SAMPLING SYSTEM



| Part No. | Size | Description |
|----------|------|-----------------------------------|
| ZZJW-M01 | -6 | 200 series hose - Petrol/Methanol |
| ZZJW-M02 | -6 | 811 Series hose - Petrol/Methanol |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

FUEL SHUT OFF TAP

| Part No. | Inlet Thread | Outlet Thread | Mat |
|----------|--------------|-------------------|-----|
| PV72-06D | NPT 3/8 | JIC/UNF 9/16 x 18 | D |

Fuel shut off tap

Lightweight and compact tap, allowing full flow or 100% shut-off.

Application:

Fuel systems

WIRE TWISTING PLIERS

| Part No. | Length |
|----------|--------|
| TP596 | 6" |
| TP598 | 9" |

Wire twisting pliers

Safety Lock Wire Pliers are a quick and easy way to install lockwire without the hassle of using a set of standard pliers or twisting by hand. The pliers lock closed to grip the wire and can be spun with a single hand for hard to access areas.

Application:

Compatible with all grades of lock wire.

FLARING MANDREL

| Part No. | Colour | To suit |
|----------|--------|---------|
| GM100MTB | Gold | -02 |
| GM102 | Blue | -02 |
| GM100 | Red | 600-03 |
| GM104 | Gold | -04 |

Flaring Mandrel**Application:**

The mandrel is used to open the wire braid and bore of the PTFE ready for fitting the olive.

SOCKET PLATE

| Part No. | Colour | To suit |
|----------|--------|----------------|
| GP101 | - | 600-02/-03/-04 |

Socket Plate**Application:**

the socket plate is used to pull the socket over the wire braid and olive prior to final assembly. The socket plate saves time when used with multiple hose assemblies.



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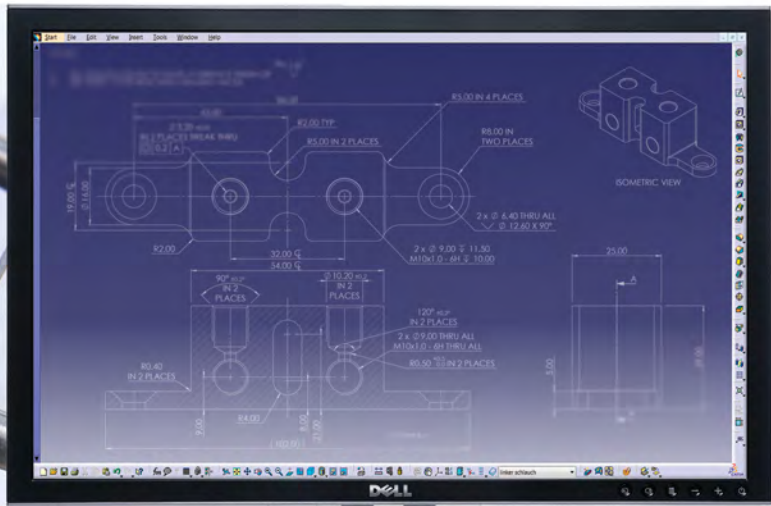
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14

ENGINEERING
CAPABILITIES &
MOBILE WORKSHOP

GOODRIDGE



For complex projects, Goodridge has a team of in-house design engineers to assist and offer consultancy based services. Customers are allocated a bespoke design engineer and project manager to see the build through to completion.



Design services:

- In-house design department
- 'Full service' supplier
- Build to print
- Dedicated project team
- Defined scope of work

Software supported:

- Catia V5
- Solidworks

File formats supported:

IGES, STEP, ACTS, DXF, DWG, SLTDP – CAT part

In house manufacturing capabilities:

- CNC tube bending
- End forming
- Brazing
- TIG welding
- CNC milling
- Hose assembly

Production & Prototyping:

- 3D printing
- Prototype alignment
- Functional samples
- In house manufacturing

Testing:

- Up to 10,000 psi
- Impulse pressure testing
- Temperature testing
- Visual inspection
- Cleaned and capped



For more information on bespoke engineering services, please contact Goodridge directly.



Need on-site assistance?

The Goodridge Mobile Workshop is available for customers who require on-site assistance, whether this be assessing a problem, prototyping or fitting a CAD/CAM hose assembly manufactured from a supplied drawing.

What's on board?

- Crimping facilities
- Pressure testing facility
- Mobile stock room
- Goodridge operative

How can we assist?

- Fuel systems
- Oil cooling & plumbing
- Water/Coolant plumbing
- Brake & clutch systems
- Air jacks
- Methanol & Ethanol injection
- EV coolant plumbing

Mobile workshop case study *Roger Clark Motorsport*

The Gobstopper 3 project isn't just a car, it's a research and development exercise, requiring a complex plumbing solution. We enlisted the help of the Goodridge mobile workshop to visit site, prototype complex assemblies on the car, manufacture the assemblies on site and install them on the vehicle.

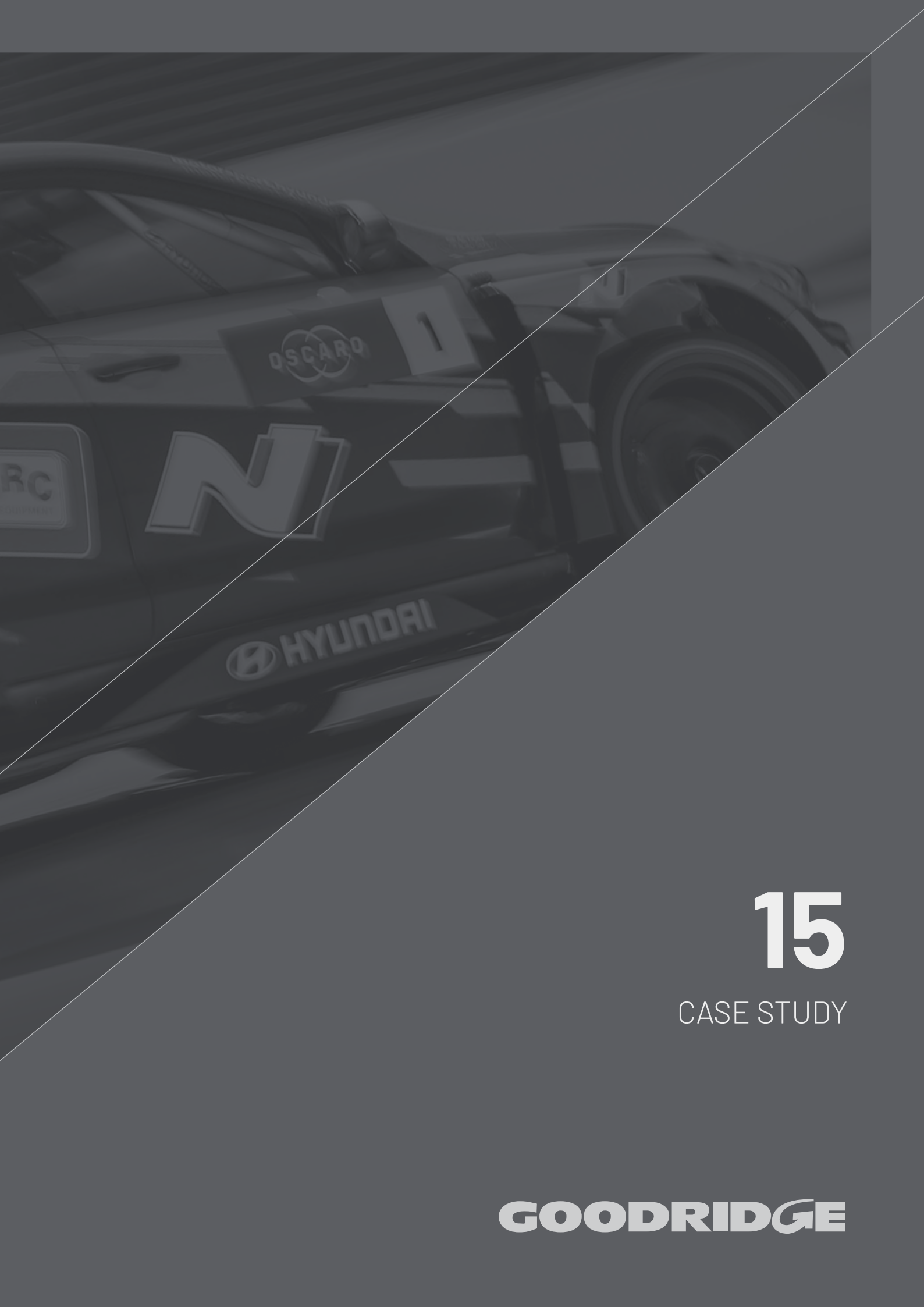
Not only were the team able to find solutions to complex problems, the project was completed quickly, when time was critical.

Matt Clark –
Technical Director

GOODRIDGE



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CASE STUDY

GOODRIDGE

Hyundai

Established in 2012, located in Alzenau, near Hyundai Europe's base in Offenbach, you will find Hyundai Motorsport GmbH headquarters.

Hyundai began building a World Rally Car in 2013, based on the i20 chassis. It didn't take long before the team put the i20 WRC on the podium, that coming with third place in Rally Mexico before claiming a first WRC win at Rallye Deutschland.

Established as front runner in the WRC the team founded their Customer Racing department in 2015. The new program began with the i20 R5 rally car, which made a competitive debut in September 2016.

At the same time Hyundai began design work on a new project, the i30 N TCR, to compete in the TCR category.

The i30 N TCR, based on the road going i30 chassis, marked the second customer motorsport project for Hyundai and their first move into circuit racing.

Built to compete in the TCR series, the car needed to be front wheel drive, using a turbo charged engine with displacement between 1600-2000CC, maximum power output 350BHP.

The finished project utilises a transverse mounted two-litre turbocharged engine, connected to a six-speed sequential gearbox and limited slip differential. Braking is taken care of using Brembo six piston monobloc brake calipers with 380mm brake discs on the front and two piston monobloc calipers with 278mm ventilated discs on the rear, all working in conjunction with spherical bearing-mounted Brembo master cylinders.

Goodridge

Where do Goodridge fit into the project?

Established in 1969, Goodridge are a fluid transfer systems manufacturer, specialising in a 'design & build' approach, alongside a comprehensive range of catalogued fluid transfer product for Motorsport, Performance and niche OEM, automotive and motorcycle applications.

The Hyundai i30 N TCR fitted into Goodridge's specialist remit, supplying fluid transfer assemblies for the following systems on both a 'build from spec' basis and in some areas, supplying catalogue product.

- Braking system • Clutch system
- Fuel system • Air jack system

The braking system utilises Goodridge 836 stainless steel hardline, CNC machine formed to Hyundai Motorsport Customer Racing's specifications.

In conjunction, Goodridge 600 series PTFE lined stainless steel braided hose and 600 series crimp fittings are assembled, crimped and pressure tested prior to being fitted to the vehicle.

The fuel system uses Goodridge G-Line XF 910 hose, combined with Goodridge 711 series aluminum crimp fittings. G-Line XF 910 hose is one of Goodridge's 'go to' hoses for high level motorsport, featuring an aramid fibre braid and PTFE liner, making it incredibly light weight and safe to run 'in cockpit'. The perfect choice for this project.

Goodridge 711 series aluminum crimp fittings are designed for use with the G-Line 910 XF hose, again focusing on providing the greatest weight saving possible, without compromising reliability.

The air jack system, standard equipment in the TCR series, uses Goodridge 836 Polyamide coated Hycot™ aluminium hardline, again CNC machined at Goodridge HQ in the UK. The hardline is fitted with Goodridge 836 re-usable aluminium fittings; these are light weight and do not require the tube to be flared for installation.



Hyundai i30 N TCR 2020 livery

The Result

Goodridge provided a bespoke, functional, light weight and reliable plumbing solution that played a part in the i30 N TCR's victory in the 2018 WTCR, with Hyundai customers winning both the teams' and drivers' titles in the 2018 series.

The Hyundai i30NTCR then enjoyed further success in 2019, with Norbert Michelisz of BRC Hyundai N Squadra Corse winning the 2019 WTCR Drivers' title and BRC Hyundai N Squadra Corse placing second in the 2019 WTCR Teams' standings. *A great result.*

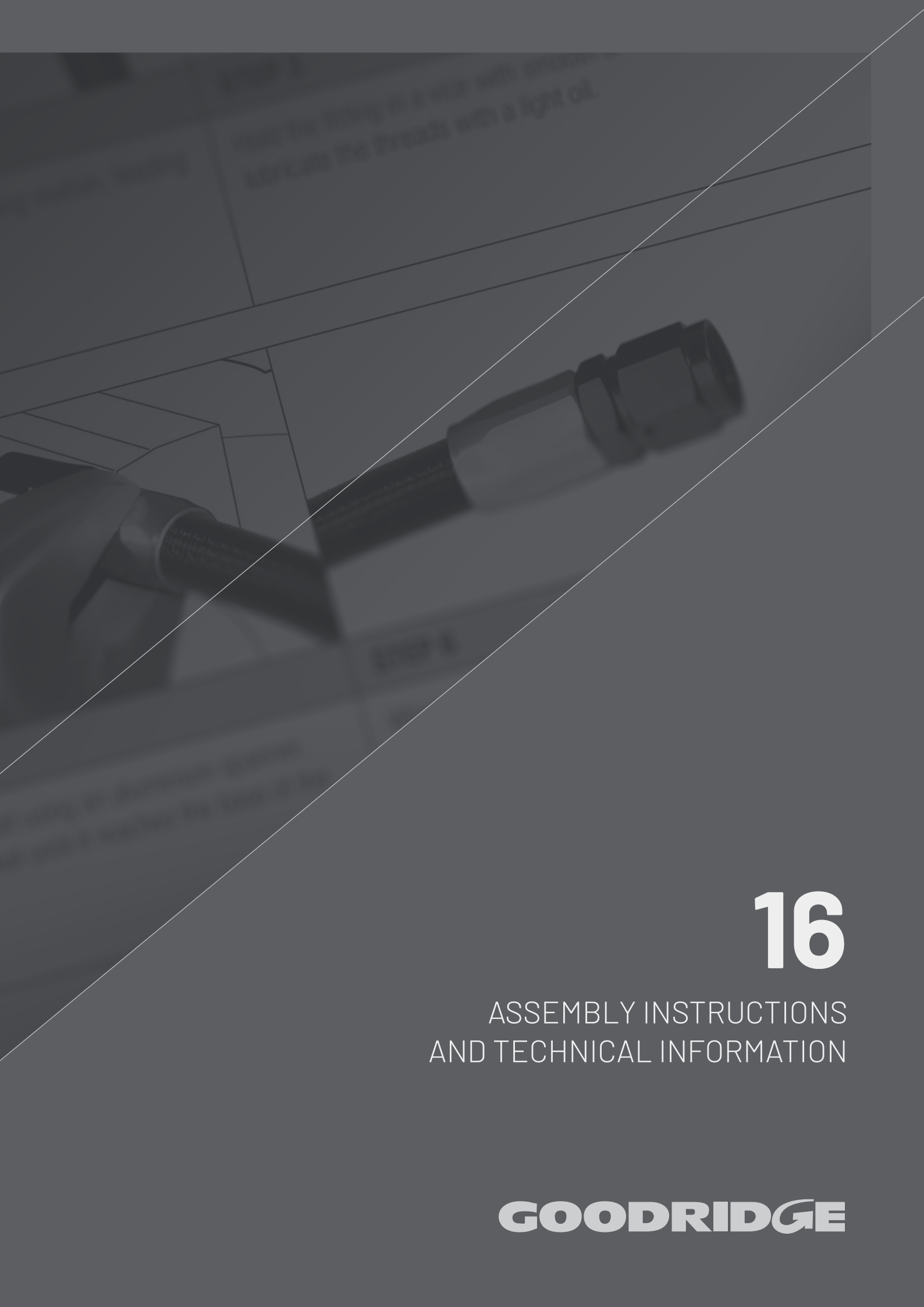
Goodridge are proud to have been a part of this project, using over 50 years of experience and input from our global network; this is the perfect example of working in conjunction with a motorsport team to achieve a fantastic result, for both parties.





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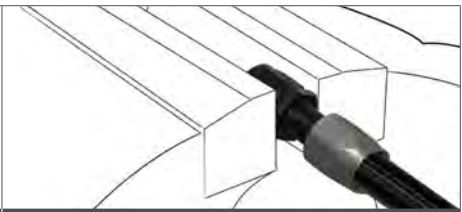



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ASSEMBLY INSTRUCTIONS
AND TECHNICAL INFORMATION

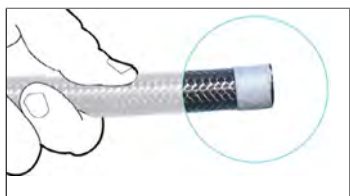
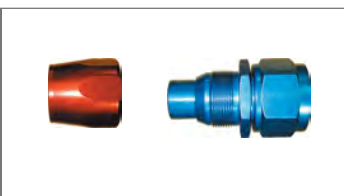
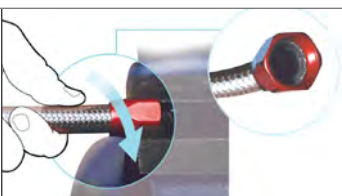
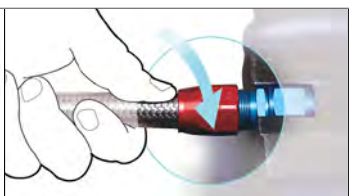
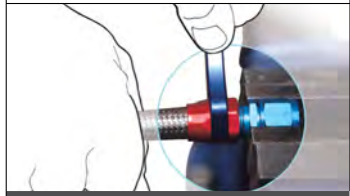
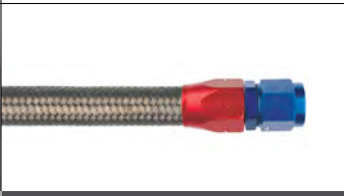
GOODRIDGE

Note: Lubricate threads with duck oil before assembly (or a similar commercial lubricant may be used). Goodridge recommend that the finished assembly is fully pressure tested prior to use.

ASSEMBLY INSTRUCTIONS FOR 811 FITTINGS AND 910 SERIES HOSE

| | | |
|--|---|--|
|  |  |  |
| <p>STEP 1</p> <p>Remove socket from fitting and ensure the hose has clean square cut ends.</p> | <p>STEP 2</p> <p>Feed the hose into the socket with a turning motion, feeding the braid in as you turn the hose.</p> | <p>STEP 3</p> <p>Hold the fitting in a vice with smooth or soft jaws, and lubricate the threads with a light oil.</p> |
|  |  |  |
| <p>STEP 4</p> <p>Push the hose firmly onto the thread whilst rotating the hose and socket together. Hand tighten both the hose and socket until it becomes too tight to move.</p> | <p>STEP 5</p> <p>Finish tightening the socket using an aluminium spanner, continue turning the socket until it reaches the base of the thread.</p> | <p>STEP 6</p> <p>When the socket reaches the base of the thread keep turning for an extra 1.5 complete turns.</p> |

ASSEMBLY INSTRUCTIONS FOR 236, 336 SERIES FITTINGS AND 200, 210 SERIES HOSE


| | | | |
|--|--|--|---|
|  |  |  |  |
| <p>STEP 1</p> <p>Bind masking tape tightly around the hose at the required length and cut through using a fine tooth saw blade or cut off wheel, leaving tape on both ends so that it retains the braid. Clean any debris from both the cut ends and inside the hose.</p> | <p>STEP 2</p> <p>Socket (red) Main fitting body (blue) On a clean flat surface disassemble the fitting. This consists of two parts. Tip: Wrap some tape behind the socket to identify if the hose is being pushed out of the socket when tightening.</p> | <p>STEP 3</p> <p>Hold the socket in a smooth jaw vice and feed one end of the hose into the socket by turning clockwise and pushing until the hose finishes just behind the socket threads.</p> | <p>STEP 4</p> <p>Holding the main fitting body in the vice, lubricate the thread and push the hose and socket over the nipple end and start to thread the socket onto the fitting by hand.</p> |
|  |  | | |
| <p>STEP 5</p> <p>Finish tightening the socket onto the fitting using a good quality wrench until the socket is one full turn from the back of the fitting hex.</p> | <p>STEP 6</p> <p>Pressure test.</p> | | |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

Note: Lubricate threads with duck oil before assembly (or a similar commercial lubricant may be used). Goodridge recommend that the finished assembly is fully pressure tested prior to use.

ASSEMBLY INSTRUCTIONS FOR TF-TU25 & 536 HOSE & PUSH FIT FITTINGS

| | | | |
|---|--|--|---|
| | | | |
| <p>STEP 1</p> <p>Cut hose at the required length using a fine tooth saw blade or cut off wheel. Clean any loose debris from both the cut ends and inside the hose.</p> | <p>STEP 2</p> <p>Hold the fitting in a bench vice, lubricate the fitting tail and inside the hose.</p> <p>Tip: <i>Submerge the end of the hose in hot water to soften and ease assembly.</i></p> | <p>STEP 3</p> <p>Push the hose over the fitting tail until it is tight behind the red hose finisher.</p>  | <p>STEP 4</p> <p>Please Note: Straight female fittings require the use of a male adaptor during hose assembly to stop the fitting tail turning.</p> |

ASSEMBLY INSTRUCTIONS FOR RE-USABLE 600 SERIES (PTFE SMOOTH BORE) HOSE & FITTINGS

| | | | |
|--|---|--|---|
| | | | |
| <p>STEP 1</p> <p>Using a fine tooth saw blade or cut off wheel, cut hose to the required length. Clean any loose debris from both the cut ends and inside the hose. Note: Lubricate threads with Duck Oil before assembly. (or a similar commercial lubricant may be used)</p> | <p>STEP 2</p> <p>Main fitting body - Olive - Socket On a clean flat surface disassemble the fitting, this consists of 3 parts, the Main fitting body, Olive and Socket.</p> | <p>STEP 3</p> <p>Push two sockets back to back over the overbraid working from the non flared end</p> | <p>STEP 4</p> <p>Using an appropriate sized Goodridge mandrel, flare out both ends of the stainless steel overbraid from the PTFE inner tube</p> |
| | | | |
| <p>STEP 5</p> <p>Push an olive onto each end of the PTFE inner tube under the stainless steel over braid by hand and finish off by pushing against a flat solid surface making sure the PTFE tube is fully home in the olive.</p> | <p>STEP 6</p> <p>Holding the main fitting body in a smooth jaw vice, lubricate the thread and push the hose over the nipple end and start to thread the socket onto the fitting by hand.</p> | <p>STEP 7</p> <p>Finish tightening the socket onto the fitting with a good quality spanner until the socket is one full turn from the main fitting hex.</p> <p>PRESSURE TEST</p> | <p>UNDER NO CIRCUMSTANCES SHOULD THE SOCKET BE LOOSENED IN AN ATTEMPT TO ADJUST THE ALIGNMENT AFTER ASSEMBLY</p> |

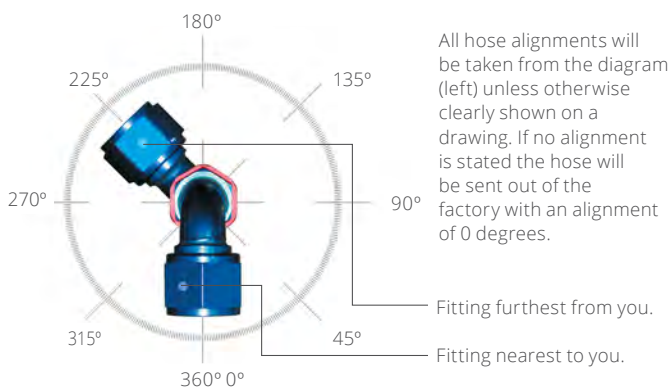
Note: Lubricate threads with duck oil before assembly (or a similar commercial lubricant may be used). Goodridge recommend that the finished assembly is fully pressure tested prior to use.

ASSEMBLY INSTRUCTIONS FOR HARDLINE AND FITTINGS

| | | | |
|---|--|--|--|
| | | | |
| STEP 1 Bend tube to suit installation using a hardline bending tool and observing the minimum bend radius (15mm for -4 and -6 tube) | STEP 2 Debur and remove any loose pieces of Hycot® cover. Measure and mark 21mm from the end of the hose. | STEP 3 Slide socket and olive onto hose until it reaches the 21mm mark made in step 2 | STEP 4 Using an appropriate spanner, assemble the socket until the socket completely covers exposed threads (2mm - 2.5mm between socket and hex) |
| STEP 5 Assemble other end repeating steps 1-4 and pressure test assembly. | NOTES 1. Once assembled, the hardline fitting should NOT be loosened and re-assembled. The olive is permanently attached after assembly and cannot be removed. 2. For production, we recommend building one template and copying all bends and dimensions from this master sample. | | |

TECHNICAL INFORMATION

CORRECT ALIGNMENTS



CORRECT MEASUREMENTS



The following instructions are designed to eliminate confusion and ensure that correct hose lengths are supplied for assembly. When ordering hose assemblies please make sure the following instructions are followed. All measurements are taken from the center of seat **A** to the center of seat **B**. This will apply in all cases unless CLEAR instructions are given on purchase order or a drawing supplied.

HOSE LENGTH TOLERANCES

| Hose length | Tolerance |
|----------------|-----------|
| 100mm to 200mm | +3mm |
| 200mm to 400mm | +5mm |
| 400mm to 600mm | +6mm |
| 600mm Upwards | + 1% |

Standard Goodridge hose tolerances used unless otherwise

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

HOSE ASSEMBLY INSTRUCTIONS

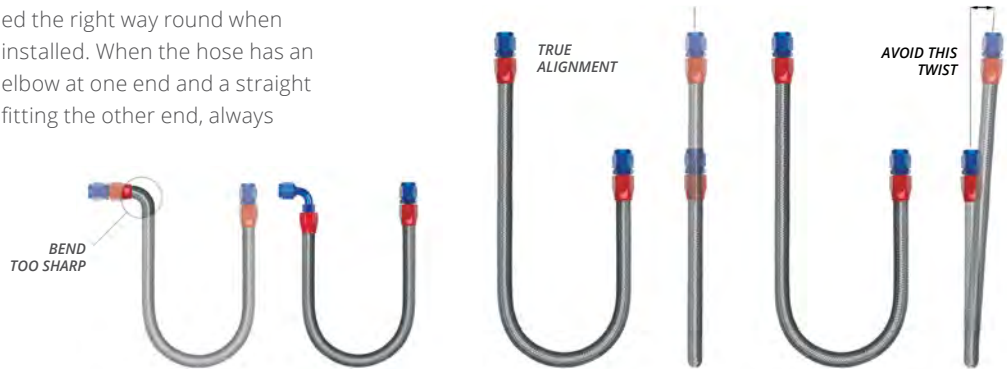
Wherever a hose assembly is used in either a static or dynamic flexing application, it is necessary to ensure that the center line bend radius is not taken below the minimum bend radius for the hose. Hose assemblies should not be installed in such a manner that a torque loading is imposed, either during installation, or in subsequent use. Torque loading of the hose creates stresses in the hose, which can shorten the hose life, or cause the hose to collapse. Whilst assembling the second end fitting, especially if it is a female union type or fitting, it is necessary to ensure that the final tightening of the nut does not also rotate the spigot, thus imposing the torque

to the hose. In the case of reusable fittings the hex on the body should be held with a spanner to prevent rotation. When the hose includes elbow fittings at both ends, it is important to ensure the correct alignment of the elbows relative to each other during hose manufacture. It is important to ensure that the hose is connected the right way round when installed. When the hose has an elbow at one end and a straight fitting the other end, always

connect the elbow end first, to prevent possible mis-alignment. In applications where the hose undergoes dynamic flexing, it is necessary to ensure that all bends in the hose are in one plane. A hose which is bent in two or more planes and then flexed is subject to torsional forces which may damage the hose.

Damage

Any visible evident damage to the hose, such as broken strands of braid, or severe distortion of the hose, or damage to the end fittings is cause for the hose to be withdrawn from service. The cause of the damage should then be identified, and steps taken to ensure that it does not re-occur.



HOSE COVERING APPLICATION GUIDE

| Hose | Fire sleeve | Raychem | Heatshrink | Raychem to seal ends of FG900 | Hose | Fire sleeve | Raychem | Heatshrink | Raychem to seal ends of FG900 |
|----------------|-------------|-----------|------------|-------------------------------|----------------|-------------|-----------|------------|-------------------------------|
| 600 | | | | | 710/910 | | | | |
| 600-02 | FG900-03 | DR-25-1/4 | HS760-02 | | 710/910-04 | FG900-04 | DR-25-1/2 | HS760-06 | DR-25-1 |
| 600-03 | FG900-03 | DR-25-3/8 | HS760-03 | | 710/910-06 | FG900-08 | DR-25-3/4 | HS760-06 | DR-25-1 |
| 600-04 | FG900-03 | DR-25-3/8 | HS760-03 | | 710/910-08 | FG900-12 | DR-25-1 | HS760-10 | DR-25-1 |
| 600-06 | FG900-06 | DR-25-3/4 | HS760-06 | | 710/910-10 | FG900-16 | DR-25-1 | HS760-10 | |
| 600-08 | FG900-08 | DR-25-3/4 | HS760-06 | | 710/910-12 | FG900-16 | | | |
| | | | | | 710/910-16 | FG900-20 | | | |
| 510/810 | | | | | 200/210 | | | | |
| 510/810-04 | FG900-04 | DR-25-1/2 | HS760-06 | DR-25-1 | 200/210-04 | FG900-04 | DR-25-1/2 | HS760-06 | DR-25-1 |
| 510/810-06 | FG900-08 | DR-25-3/4 | HS760-06 | DR-25-1 | 200/210-06 | FG900-08 | DR-25-3/4 | HS760-06 | DR-25-1 |
| 510/810-08 | FG900-12 | DR-25-1 | HS760-10 | DR-25-1 | 200/210-08 | FG900-08 | DR-25-3/4 | HS760-06 | DR-25-1 |
| 510/810-10 | FG900-16 | DR-25-1 | HS760-10 | | 200/210-10 | FG900-12 | DR-25-1 | HS760-10 | DR-25-1 |
| 510/810-12 | FG900-16 | | | | 200/210-12 | FG900-12 | DR-25-1 | | DR-25-1 |
| 510/810-16 | FG900-20 | | | | 200/210-16 | FG900-16 | | | |

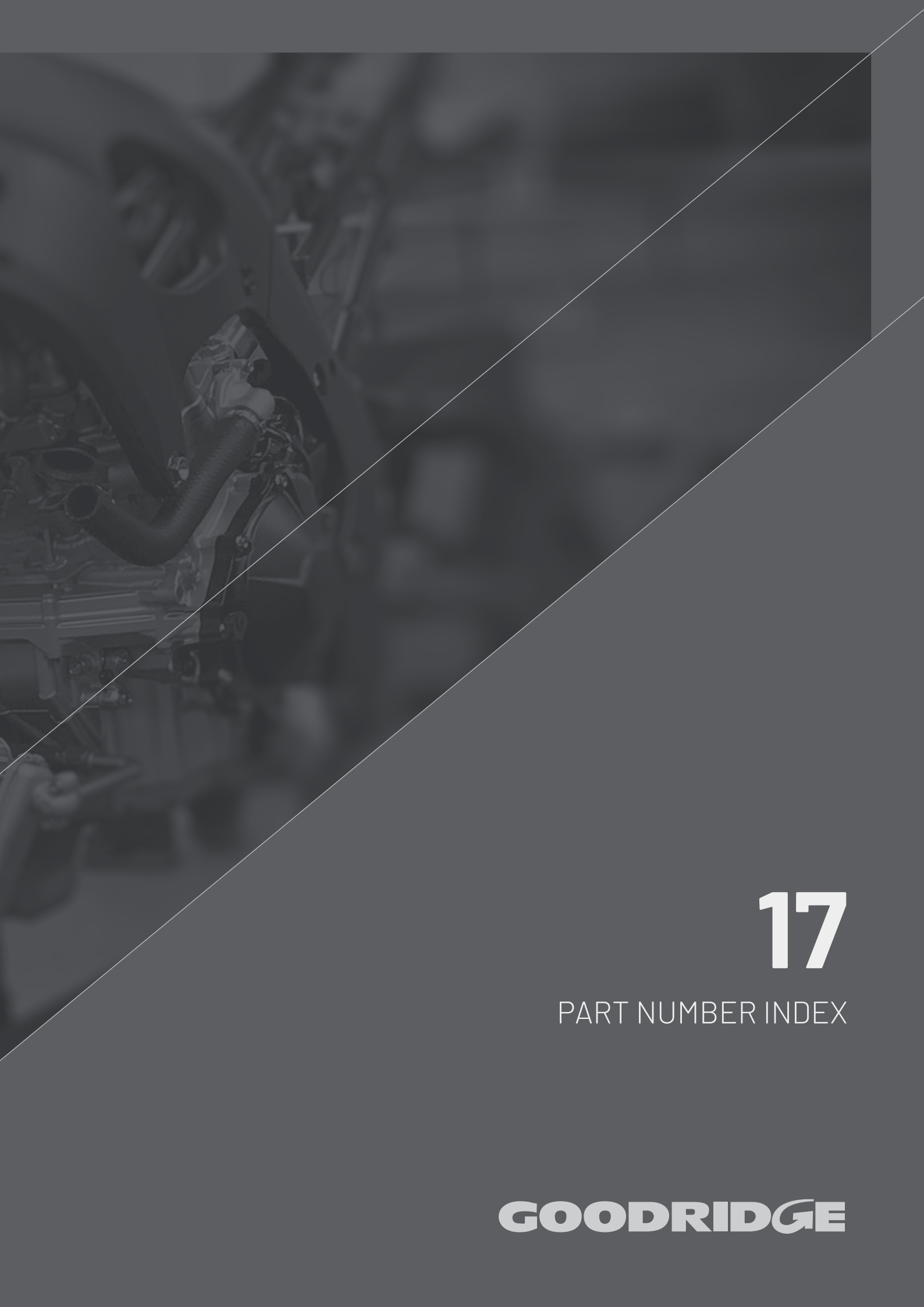
COMMON THREAD SIZES

| Size | JIC/UNF | BSP | NPT | SIZE | JIC/UNF | BSP | NPT | SIZE | JIC/UNF | BSP | NPT |
|--------|------------|-----------|------------|--------|-------------|-----------|-----------|--------|--------------|-------------|-----------------|
| -02 | 5/16" x 24 | | 1/16" x 27 | -06 | 9/16" x 18 | 3/8" x 19 | 3/8" x 18 | -16 | 1 5/16" x 12 | 1" x 11 | 1" x 11 1/2 |
| -03 | 3/8" x 24 | 1/8" x 28 | 1/8" x 27 | -07 | 5/8" x 18 | | | -20 | 1.5/8" x 12 | 1 1/4" x 11 | 1 1/4" x 11 1/2 |
| -04 | 7/16" x 20 | 1/4" x 19 | 1/4" x 18 | -08 | 3/4" x 16 | 1/2" x 14 | 1/2" x 14 | -24 | 1 7/8" x 12 | 1 1/2" x 11 | 1 1/2" x 11 1/2 |
| -44 | 7/16" x 24 | | | -10 | 7/8" x 14 | 5/8" x 14 | | -28 | 2 1/4" x 12 | 1 3/4" x 11 | |
| -05 | 1/2" x 20 | | | -12 | 1 1/6" x 12 | 3/4" x 14 | 3/4" x 14 | -32 | 2 1/2" x 12 | 2" x 11 | 2" x 11 1/2 |
| Metric | Thread | | | Metric | Thread | | | Metric | Thread | | |
| -21 | 8 x 1.00 | | | -M121 | 12 x 1.00 | | | -M16 | 16 x 1.50 | -M26 | 26 x 1.50 |
| -22 | 8 x 1.25 | | | -M122 | 12 x 1.25 | | | -M18 | 18 x 1.50 | -M30 | 30 x 1.50 |
| -31 | 10 x 1.00 | | | -M12 | 12 x 1.50 | | | -M20 | 20 x 1.50 | | |
| -32 | 10 x 1.25 | | | -M142 | 14 x 1.25 | | | -M22 | 22 x 1.50 | | |
| -35 | 10 x 1.50 | | | -M14 | 14 x 1.50 | | | -M24 | 24 x 1.50 | | |



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GOODRIDGE

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| 14F03-16D | 158 | 2203-03B | 55 | 236-4508BK | 96 | 305-04-31D | 138 | 306-04-M14DBK | 139 |
| 14F03-20D | 158 | 2204-03B | 55 | 236-4510 | 94 | 305-04-31DBK | 138 | 306-04-M14P | 139 |
| 14F03-24D | 158 | 2204-31B | 55 | 236-4510BK | 96 | 305-04-31Z1 | 138 | 306-04-M16Z1 | 139 |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

| | | | | | | | | | |
|----------------|-----|---------------|-----|---------------|----|---------------|----|-----------|-----|
| 306-04-M18D | 139 | 306-12-M18DBK | 139 | 336-9010BK | 98 | 4120-08-08DFL | 35 | 442-32P | 46 |
| 306-04-M18DBK | 139 | 306-12-M20D | 139 | 336-9012 | 98 | 4120-08D | 32 | 443-03BNP | 43 |
| 306-06-31D | 139 | 306-12-M20DBK | 139 | 336-9012BK | 98 | 4120-10-10DFL | 35 | 443-03C | 43 |
| 306-06-31DBK | 139 | 306-12-M22D | 139 | 4001-04D | 31 | 4120-10D | 32 | 443-03CH | 43 |
| 306-06-32D | 139 | 306-12-M22DBK | 139 | 4001-04DBK | 31 | 4120-12-12DFL | 35 | 443-03P | 43 |
| 306-06-32DBK | 139 | 306-12-M24D | 139 | 4001-06D | 31 | 4120-12D | 32 | 443-04P | 82 |
| 306-06-M121D | 139 | 306-12-M24DBK | 139 | 4001-08-08DFL | 34 | 4120-16-16DFL | 35 | 444-31P | 46 |
| 306-06-M121DBK | 139 | 306-12-M26D | 139 | 4001-08D | 31 | 4120-16D | 32 | 4441-04D | 32 |
| 306-06-M12D | 139 | 306-12-M26DBK | 139 | 4001-10-10DFL | 34 | 4150-04D | 32 | 4441-06D | 32 |
| 306-06-M12DBK | 139 | 306-12-M30D | 139 | 4001-10D | 31 | 4150-06D | 32 | 4441-08D | 32 |
| 306-06-M12Z1 | 139 | 306-12-M30DBK | 139 | 4001-12-12DFL | 34 | 4150-08-08DFL | 35 | 4441-10D | 32 |
| 306-06-M14D | 139 | 306-16-M26D | 139 | 4001-12D | 31 | 4150-08D | 32 | 44512 | 174 |
| 306-06-M14DBK | 139 | 306-16-M30D | 139 | 4001-16-16DFL | 34 | 4150-10-10DFL | 35 | 44514 | 174 |
| 306-06-M14Z1 | 139 | 307-03-31C | 139 | 4001-16D | 31 | 4150-10D | 32 | 44515 | 174 |
| 306-06-M16D | 139 | 307-03-31P | 139 | 4001-20D | 31 | 4150-12-12DFL | 35 | 44516 | 113 |
| 306-06-M16DBK | 139 | 313-03P | 141 | 4045-04D | 31 | 4150-12D | 32 | 44516 | 174 |
| 306-06-M16Z1 | 139 | 313-04P | 141 | 4045-04DBK | 31 | 4150-16-16DFL | 35 | 44517 | 174 |
| 306-06-M18D | 139 | 313-06P | 141 | 4045-06D | 31 | 4150-16D | 32 | 44518 | 174 |
| 306-06-M18DBK | 139 | 313-08P | 141 | 4045-08D | 31 | 4180-04D | 32 | 44519 | 174 |
| 306-06-M18Z1 | 139 | 313-10P | 141 | 4045-10D | 31 | 4180-06D | 32 | 44520 | 174 |
| 306-06-M20D | 139 | 314-21SD | 142 | 4045-12D | 31 | 4180-08-08DFL | 35 | 44550 | 174 |
| 306-06-M20DBK | 139 | 314-31P | 142 | 4046-04D | 31 | 4180-08D | 32 | 4445-04D | 33 |
| 306-06-M22D | 139 | 314-31SDBK | 142 | 4046-04DBK | 31 | 4180-10-10DFL | 35 | 4445-06D | 33 |
| 306-06-M22DBK | 139 | 314-M122P | 142 | 4046-06D | 31 | 4180-10D | 32 | 4445-08D | 33 |
| 306-08-M12D | 139 | 314-M12D | 142 | 4046-08-08DFL | 34 | 4180-12-12DFL | 35 | 4445-10D | 33 |
| 306-08-M12DBK | 139 | 314-M14D | 142 | 4046-08D | 31 | 4180-12D | 32 | 4445-12D | 33 |
| 306-08-M14D | 139 | 314-M14P | 142 | 4046-10-10DFL | 34 | 4180-16-16DFL | 35 | 4446-04D | 33 |
| 306-08-M14DBK | 139 | 314-M14SD | 142 | 4046-10D | 31 | 4180-16D | 32 | 4446-06D | 33 |
| 306-08-M14P | 139 | 314-M16P | 142 | 4046-12-12DFL | 34 | 440-03C | 43 | 4446-08D | 33 |
| 306-08-M16D | 139 | 314-M18D | 142 | 4046-12D | 31 | 440-03CH | 43 | 4446-10D | 33 |
| 306-08-M16DBK | 139 | 314-M22P | 142 | 4046-16-16DFL | 34 | 440-03P | 43 | 4446-12D | 33 |
| 306-08-M16Z1 | 139 | 318-31C | 175 | 4046-16D | 31 | 441-03C | 43 | 4446-16D | 33 |
| 306-08-M18D | 139 | 318-31Z1 | 175 | 40776-04-M10D | 32 | 441-03CH | 43 | 445-31C | 46 |
| 306-08-M18DBK | 139 | 318-M121Z1 | 175 | 40776-06-M12D | 32 | 441-03P | 43 | 445-31CH | 46 |
| 306-08-M18Z1 | 139 | 319-31B | 55 | 40776-06-M14D | 32 | 441-04C | 82 | 445-31P | 46 |
| 306-08-M20D | 139 | 321-03CH | 50 | 40776-06-M16D | 32 | 44120-04D | 33 | 445-32P | 46 |
| 306-08-M20DBK | 139 | 321-03P | 50 | 4090-04D | 31 | 44120-06D | 33 | 44518HD | 174 |
| 306-08-M22D | 139 | 321-03SMP | 50 | 4090-04DBK | 31 | 44120-08D | 33 | 446-31C | 46 |
| 306-08-M22DBK | 139 | 321-04P | 83 | 4090-06D | 31 | 44120-10D | 33 | 446-31P | 46 |
| 306-08-M24D | 139 | 323-03P | 50 | 4090-08D | 31 | 44120-12D | 33 | 446-32P | 46 |
| 306-10-M14D | 139 | 331-03P | 50 | 4090-10D | 31 | 44120-16D | 33 | 448-31P | 46 |
| 306-10-M14DBK | 139 | 332-03P | 50 | 4090-12D | 31 | 44150-04D | 34 | 4490-04D | 33 |
| 306-10-M16D | 139 | 332-04P | 83 | 4091-04D | 31 | 44150-06D | 34 | 4490-06D | 33 |
| 306-10-M16DBK | 139 | 336-4506 | 98 | 4091-04DBK | 31 | 44150-08D | 34 | 4490-08D | 33 |
| 306-10-M16Z1 | 139 | 336-4506BK | 98 | 4091-06D | 31 | 44150-10D | 34 | 4490-10D | 33 |
| 306-10-M18D | 139 | 336-4508 | 98 | 4091-08-08DFL | 34 | 44150-12D | 34 | 4490-12D | 33 |
| 306-10-M18DBK | 139 | 336-4508BK | 98 | 4091-08D | 31 | 44180-04D | 34 | 4491-04D | 33 |
| 306-10-M20D | 139 | 336-4510 | 98 | 4091-10-10DFL | 34 | 44180-06D | 34 | 4491-06D | 33 |
| 306-10-M20DBK | 139 | 336-4510BK | 98 | 4091-10D | 31 | 44180-08D | 34 | 4491-08D | 33 |
| 306-10-M22D | 139 | 336-4512 | 98 | 4091-12-12DFL | 34 | 44180-10D | 34 | 4491-10D | 33 |
| 306-10-M22DBK | 139 | 336-4512BK | 98 | 4091-12D | 31 | 44180-12D | 34 | 4491-12D | 33 |
| 306-10-M24D | 139 | 336-9006 | 98 | 4091-16-16DFL | 34 | 442-31C | 46 | 4491-16D | 33 |
| 306-10-M24DBK | 139 | 336-9006BK | 98 | 4091-16D | 31 | 442-31CH | 46 | 451-31C | 47 |
| 306-10-M26D | 139 | 336-9008 | 98 | 4120-04D | 32 | 442-31D | 46 | 451-31P | 47 |
| 306-10-M26DBK | 139 | 336-9008BK | 98 | 4120-04DBK | 32 | 442-31LP | 46 | 452-31C | 47 |
| 306-12-M18D | 139 | 336-9010 | 98 | 4120-06D | 32 | 442-31P | 46 | 452-31P | 47 |

| | | | | | | | | | |
|---------------|-----|---------------|-----|--------------|-----|-------------|----|-------------|----|
| 492-31P | 47 | 5093-03-M12C | 51 | 536-12 | 105 | 600-03CB | 41 | 6090-06D | 82 |
| 50-107-7612 | 164 | 5093-03-M12CH | 51 | 536-12004 | 106 | 600-03CL | 41 | 6090-08D | 82 |
| 50-110-7612 | 164 | 5093-03C | 51 | 536-12006 | 106 | 600-03EB | 41 | 6091-03C | 44 |
| 50-113-7612 | 164 | 5093-03CH | 51 | 536-12006DBK | 107 | 600-03GD | 41 | 6091-03CH | 44 |
| 50-116-7612 | 164 | 5093-03D | 51 | 536-12008 | 106 | 600-03LG | 41 | 6091-03D | 44 |
| 50-119-7612 | 164 | 5093-03P | 51 | 536-12008DBK | 107 | 600-03OR | 41 | 6091-03P | 44 |
| 50-125-7612 | 164 | 5093-04-03P | 84 | 536-12010 | 106 | 600-03PK | 41 | 6091-04C | 81 |
| 50-150-7612 | 164 | 5094-02-03C | 52 | 536-12010DBK | 107 | 600-03RD | 41 | 6091-04D | 81 |
| 50-607-7612 | 164 | 5094-03C | 52 | 536-12012 | 106 | 600-03VB | 41 | 6091-04P | 81 |
| 50-610-7612 | 164 | 5094-03CH | 52 | 536-12012DBK | 107 | 600-03WT | 41 | 6091-06D | 81 |
| 50-613-7612 | 164 | 5094-03D | 52 | 536-12B | 105 | 600-03YE | 41 | 6091-06P | 81 |
| 50-616-7612 | 164 | 5094-03P | 52 | 536-15004 | 106 | 600-04BK | 80 | 6091-08D | 81 |
| 50-619-7612 | 164 | 5095-03C | 52 | 536-15006 | 106 | 600-04CB | 80 | 6645-03C | 44 |
| 50-625-7612 | 164 | 5095-03P | 52 | 536-15006DBK | 107 | 600-04CL | 80 | 6645-04C | 81 |
| 50-634-7612 | 164 | 5096-03C | 53 | 536-15008 | 106 | 600-04HP | 88 | 6645-04D | 81 |
| 50-640-7612 | 164 | 5097-03C | 51 | 536-15008DBK | 107 | 600-05CB | 80 | 6645-06D | 81 |
| 50-910-7612 | 164 | 5097-03CH | 51 | 536-15010 | 106 | 600-05CL | 80 | 6645-31C | 47 |
| 50-915-7612 | 164 | 5097-03D | 51 | 536-15010DBK | 107 | 600-06HP | 88 | 6690-03C | 44 |
| 50-919-7612 | 164 | 5097-03P | 51 | 536-15012 | 106 | 600-08HP | 88 | 6690-03P | 44 |
| 50-925-7612 | 164 | 5098-03C | 53 | 536-15012DBK | 107 | 6001-02-03C | 43 | 6690-04C | 82 |
| 5070-03C | 52 | 5098-03P | 53 | 536-18004 | 106 | 6001-02C | 43 | 6690-04D | 82 |
| 5070-03CH | 52 | 5099-03-04C | 52 | 536-18006 | 106 | 6001-03-04C | 43 | 6690-06D | 82 |
| 5070-03P | 52 | 5099-03-04CH | 52 | 536-18006DBK | 107 | 6001-03C | 43 | 6690-31C | 47 |
| 5091-03-04C | 51 | 5099-03C | 52 | 536-18008 | 106 | 6001-03CH | 43 | 700K-03 | 42 |
| 5091-03-04CH | 51 | 5099-03CH | 52 | 536-18008DBK | 107 | 6001-03D | 43 | 700K-03BK | 42 |
| 5091-03-04P | 51 | 5099-03D | 52 | 536-18010 | 106 | 6001-03P | 43 | 700K-04BK | 80 |
| 5091-03C | 51 | 5099-03P | 52 | 536-18010DBK | 107 | 6001-04C | 81 | 704-03P | 45 |
| 5091-03CH | 51 | 5099S-03C | 52 | 536-18012 | 106 | 6001-04D | 81 | 704-04P | 82 |
| 5091-03D | 51 | 5099S-03P | 52 | 536-18012DBK | 107 | 6001-04P | 81 | 710-04 | 23 |
| 5091-03P | 51 | 5130-03C | 53 | 536-4504 | 106 | 6001-06D | 81 | 710-06 | 23 |
| 5091-04-03P | 84 | 5130-03C | 113 | 536-4504DBK | 107 | 6001-06P | 81 | 710-08 | 23 |
| 5091-04-M12P | 84 | 5131-03C | 53 | 536-4506 | 106 | 6001-08D | 81 | 710-10 | 23 |
| 5091-04D | 84 | 5132-03C | 54 | 536-4506DBK | 107 | 6001-31CVW | 47 | 710-12 | 23 |
| 5091-04P | 84 | 5135-02C | 54 | 536-4508 | 106 | 6001-32Z1VW | 47 | 710-16 | 23 |
| 5091-06D | 84 | 5135-03C | 54 | 536-4508DBK | 107 | 6045-02-03C | 44 | 710-20 | 23 |
| 5091-08D | 84 | 5135-03D | 54 | 536-4510 | 106 | 6045-03C | 44 | 711001 | 27 |
| 5092-02-03C | 51 | 5136-03C | 54 | 536-4510DBK | 107 | 6045-03D | 44 | 711001 | 27 |
| 5092-02C | 51 | 5140-03C | 54 | 536-4512 | 106 | 6045-03P | 44 | 711031 | 27 |
| 5092-03-02C | 51 | 536-0104 | 106 | 536-4512DBK | 107 | 6045-04D | 81 | 711046 | 27 |
| 5092-03-02P | 51 | 536-0104DBK | 107 | 536-9004 | 106 | 6045-06D | 81 | 711061 | 27 |
| 5092-03-04C | 51 | 536-0106 | 106 | 536-9004DBK | 107 | 6045-08D | 81 | 711091 | 27 |
| 5092-03-04CH | 51 | 536-0106DBK | 107 | 536-9006 | 106 | 6046-03C | 44 | 711120 | 27 |
| 5092-03-04P | 51 | 536-0108 | 106 | 536-9006DBK | 107 | 6046-03CH | 44 | 711150 | 27 |
| 5092-03-M12C | 51 | 536-0108DBK | 107 | 536-9008 | 106 | 6046-03D | 44 | 711180 | 27 |
| 5092-03-M12CH | 51 | 536-0110 | 106 | 536-9008DBK | 107 | 6046-03P | 44 | 711-0106 | 24 |
| 5092-03-M12P | 51 | 536-0110DBK | 107 | 536-9010 | 106 | 6046-04C | 81 | 711-0108 | 24 |
| 5092-03C | 51 | 536-0112 | 106 | 536-9010DBK | 107 | 6046-04D | 81 | 711-0108DFL | 27 |
| 5092-03CH | 51 | 536-0112DBK | 107 | 536-9012 | 106 | 6046-04P | 81 | 711-0110 | 24 |
| 5092-03D | 51 | 536-04 | 105 | 536-9012DBK | 107 | 6046-06D | 81 | 711-0110DFL | 27 |
| 5092-03P | 51 | 536-04B | 105 | 600-02 | 41 | 6046-08D | 81 | 711-0112 | 24 |
| 5092-04-03P | 84 | 536-06 | 105 | 600-03 | 41 | 6090-02-03C | 44 | 711-0112DFL | 27 |
| 5093-02-03C | 51 | 536-06B | 105 | 600-04 | 80 | 6090-02C | 44 | 711-0116 | 24 |
| 5093-02C | 51 | 536-08 | 105 | 600-05 | 80 | 6090-03C | 44 | 711-0116DFL | 27 |
| 5093-03-04C | 51 | 536-08B | 105 | 600-06 | 80 | 6090-03D | 44 | 711-06 | 22 |
| 5093-03-04CH | 51 | 536-10 | 105 | 600-08 | 80 | 6090-03P | 44 | 711-08 | 22 |
| 5093-03-04P | 51 | 536-10B | 105 | 600-08 | 80 | 6090-04D | 82 | 711-10 | 22 |
| | | | | 600-03BK | 41 | | | | |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

| | | | | | | | | | |
|--------------|----|--------------|-----|---------------|-----|-------------|-----|---------------|-----|
| 711-12 | 22 | 711-6012 | 24 | 741-08-08Z1 | 140 | 7791 | 29 | 775-44Z1 | 143 |
| 711-12006 | 25 | 711-6012DFL | 28 | 741-08-10D | 140 | 77120 | 29 | 776-03-04CH | 142 |
| 711-12008 | 25 | 711-6016 | 24 | 741-08-10DBK | 140 | 77150 | 29 | 776-03-04Z1 | 142 |
| 711-12008DFL | 28 | 711-6016DFL | 28 | 741-08-10Z1 | 140 | 77180 | 29 | 776-03C | 142 |
| 711-12010 | 25 | 711-9006 | 25 | 741-08-12D | 140 | 77120-06 | 26 | 776-03CH | 142 |
| 711-12010DFL | 28 | 711-9008 | 25 | 741-08-12DBK | 140 | 77120-08 | 26 | 776-03D | 142 |
| 711-12012 | 25 | 711-9008DFL | 28 | 741-08-12Z1 | 140 | 77120-10 | 26 | 776-03Z1 | 142 |
| 711-12012DFL | 28 | 711-9010 | 25 | 741-10-10D | 140 | 77120-12 | 26 | 776-04-03Z1 | 142 |
| 711-12016 | 25 | 711-9010DFL | 28 | 741-10-10DBK | 140 | 77120-16 | 26 | 776-04-M12D | 142 |
| 711-12016DFL | 28 | 711-9012 | 25 | 741-10-10P | 140 | 77150-06 | 26 | 776-04-M12DBK | 142 |
| 711-15006 | 25 | 711-9012DFL | 28 | 741-10-12D | 140 | 77150-08 | 26 | 776-04-M12Z1 | 142 |
| 711-15008 | 25 | 711-9016DFL | 28 | 741-10-12DBK | 140 | 77150-10 | 26 | 776-04-M14D | 142 |
| 711-15008DFL | 28 | 711-9106 | 25 | 741-10-12P | 140 | 77150-12 | 26 | 776-04-M14DBK | 142 |
| 711-15010 | 25 | 711-9108 | 25 | 741-12-08P | 140 | 77150-16 | 26 | 776-04Z1 | 142 |
| 711-15010DFL | 28 | 711-9110 | 25 | 741-12-10P | 140 | 77180-06 | 26 | 776-06-04D | 142 |
| 711-15012 | 25 | 711-9112 | 25 | 741-12-12D | 140 | 77180-08 | 26 | 776-06-04DBK | 142 |
| 711-15012DFL | 28 | 711-9116 | 25 | 741-12-12DBK | 140 | 77180-10 | 26 | 776-06-M12D | 142 |
| 711-15016 | 25 | 731001 | 29 | 741-12-12Z1 | 140 | 77180-12 | 26 | 776-06-M12DBK | 142 |
| 711-15016DFL | 28 | 731001 | 29 | 741-16-12P | 140 | 77180-16 | 26 | 776-06-M14D | 142 |
| 711-16 | 22 | 731046 | 29 | 742-03-31Z1 | 141 | 773-03BNC | 76 | 776-06-M14DBK | 142 |
| 711-18006 | 25 | 731091 | 29 | 742-03-M121Z1 | 141 | 773-03C | 74 | 776-06-M16D | 142 |
| 711-18008 | 25 | 741-03-03D | 140 | 742-04-M12P | 141 | 773-03CBK | 74 | 776-06-M16DBK | 142 |
| 711-18008DFL | 28 | 741-03-03Z1 | 140 | 742-04-M14P | 141 | 773-03CH | 74 | 776-06D | 142 |
| 711-18010 | 25 | 741-03-04D | 140 | 742-08-M14P | 141 | 773-03D | 74 | 776-06DBK | 142 |
| 711-18010DFL | 28 | 741-03-04DBK | 140 | 742-08-M16P | 141 | 773-03LCH | 74 | 776-08-M14D | 142 |
| 711-18012 | 25 | 741-03-04Z1 | 140 | 742-08-M18P | 141 | 773-03LZ1 | 74 | 776-08-M14DBK | 142 |
| 711-18012DFL | 28 | 741-03-06D | 140 | 746-03P | 45 | 773-03Z1 | 74 | 776-08-M16D | 142 |
| 711-18016 | 25 | 741-03-06DBK | 140 | 749-03-31P | 48 | 773-44CH | 87 | 776-08-M16DBK | 142 |
| 711-18016DFL | 28 | 741-04-03C | 140 | 749-03-32P | 48 | 7746-06 | 26 | 776-08-M18D | 142 |
| 711-3006 | 24 | 741-04-03D | 140 | 750-03-31P | 48 | 7746-08 | 26 | 776-08-M18DBK | 142 |
| 711-3008 | 24 | 741-04-03DBK | 140 | 750-03-32P | 48 | 7746-10 | 26 | 776-10-M18D | 142 |
| 711-3008DFL | 27 | 741-04-03Z1 | 140 | 754-03-31P | 48 | 7746-12 | 26 | 776-10-M20D | 142 |
| 711-3010 | 24 | 741-04-04D | 140 | 755-03-31P | 48 | 7746-16 | 26 | 779-03C | 142 |
| 711-3010DFL | 27 | 741-04-04DBK | 140 | 756-03-31P | 48 | 775-02C | 73 | 779-03Z1 | 142 |
| 711-3012 | 24 | 741-04-04Z1 | 140 | 756-03P | 45 | 775-03-02Z1 | 73 | 779-06-04D | 142 |
| 711-3012DFL | 27 | 741-04-06D | 140 | 757-03-31P | 49 | 775-03BNC | 75 | 779-06-04DBK | 142 |
| 711-3016 | 24 | 741-04-06DBK | 140 | 758-03-03P | 45 | 775-03BNZ1 | 75 | 7791-06 | 26 |
| 711-3016DFL | 27 | 741-04-06Z1 | 140 | 758-03-31P | 49 | 775-03C | 73 | 7791-08 | 26 |
| 711-4506 | 24 | 741-04-08P | 140 | 758-03-31SP | 49 | 775-03CBK | 73 | 7791-10 | 26 |
| 711-4508 | 24 | 741-04-10P | 140 | 758-03-32P | 49 | 775-03CH | 73 | 7791-12 | 26 |
| 711-4508DFL | 27 | 741-06-04D | 140 | 759-03-03P | 45 | 775-03D | 73 | 7791-16 | 26 |
| 711-4510 | 24 | 741-06-04DBK | 140 | 759-03-31P | 49 | 775-03DBK | 73 | 811-0104 | 36 |
| 711-4510DFL | 27 | 741-06-04Z1 | 140 | 759-03-31SP | 49 | 775-03LC | 73 | 811-0106 | 36 |
| 711-4512 | 24 | 741-06-06D | 140 | 759-03-32CH | 49 | 775-03LCH | 73 | 811-0108 | 36 |
| 711-4512DFL | 27 | 741-06-06DBK | 140 | 759-03-32P | 49 | 775-03LZ1 | 73 | 811-0110 | 36 |
| 711-4516DFL | 27 | 741-06-06Z1 | 140 | 763-03-03D | 140 | 775-03Z1 | 73 | 811-0112 | 36 |
| 711-4606 | 24 | 741-06-08D | 140 | 763-04-04P | 140 | 775-04C | 143 | 811-0116 | 36 |
| 711-4608 | 24 | 741-06-08DBK | 140 | 763-04-06D | 140 | 775-04CH | 143 | 811-04 | 21 |
| 711-4610 | 24 | 741-06-08Z1 | 140 | 763-06-08D | 140 | 775-04D | 143 | 811-06 | 21 |
| 711-4612 | 24 | 741-06-10D | 140 | 763-08-06P | 140 | 775-04LZ1 | 143 | 811-08 | 21 |
| 711-4616 | 24 | 741-06-10DBK | 140 | 763-08-08P | 140 | 775-04Z1 | 143 | 811-10 | 21 |
| 711-6006 | 24 | 741-08-06D | 140 | 763-08-10P | 140 | 775-06D | 143 | 811-12 | 21 |
| 711-6008 | 24 | 741-08-06DBK | 140 | 7731 | 29 | 775-44BK | 143 | 811-12004 | 37 |
| 711-6008DFL | 28 | 741-08-06Z1 | 140 | 7731 | 29 | 775-44C | 143 | 811-12006 | 37 |
| 711-6010 | 24 | 741-08-08D | 140 | 7746 | 29 | 775-44CBK | 143 | 811-12008 | 37 |
| 711-6010DFL | 28 | 741-08-08DBK | 140 | 7761 | 29 | 775-44CH | 143 | 811-12010 | 37 |

| | | | | | | | | | |
|------------|-----|--------------|-----|--------------|----|---------------|----|----------------|-----|
| 811-12012 | 37 | 832-03P | 126 | 960-0108 | 10 | 960-4610 | 10 | 992-03-31SD | 73 |
| 811-12016 | 37 | 832-04P | 126 | 960-0108DFL | 14 | 960-4612 | 10 | 992-03-31SDBK | 73 |
| 811-15004 | 37 | 832-06P | 126 | 960-0110 | 10 | 960-4616 | 10 | 992-03-31SDBU | 73 |
| 811-15006 | 37 | 860-06 | 9 | 960-0110DFL | 14 | 960-4620 | 10 | 992-03-31SZ1 | 73 |
| 811-15008 | 37 | 860-08 | 9 | 960-0112 | 10 | 960-6008 | 12 | 992-03-31Z1 | 73 |
| 811-15010 | 37 | 860-10 | 9 | 960-0112DFL | 14 | 960-6010 | 12 | 992-03-32C | 73 |
| 811-15012 | 37 | 860-12 | 9 | 960-0116 | 10 | 960-6012 | 12 | 992-03-32CBK | 73 |
| 811-15016 | 37 | 860-16 | 9 | 960-0116DFL | 14 | 960-6016 | 12 | 992-03-32CH | 73 |
| 811-16 | 21 | 910-04 | 21 | 960-0120 | 10 | 960-9006 | 10 | 992-03-32D | 73 |
| 811-18004 | 37 | 910-06 | 21 | 960-06 | 9 | 960-9008 | 10 | 992-03-32DBK | 73 |
| 811-18006 | 37 | 910-06FC | 22 | 960-08 | 9 | 960-9008DFL | 14 | 992-03-32DBU | 73 |
| 811-18008 | 37 | 910-08 | 21 | 960-10 | 9 | 960-9010 | 10 | 992-03-32LCH | 73 |
| 811-18010 | 37 | 910-10 | 21 | 960-12 | 9 | 960-9010DFL | 14 | 992-03-32LZ1 | 73 |
| 811-18012 | 37 | 910-12 | 21 | 960-12006 | 11 | 960-9012 | 10 | 992-03-32Z1 | 73 |
| 811-18016 | 37 | 910-16 | 21 | 960-12008 | 11 | 960-9012DFL | 14 | 992-03-35C | 73 |
| 811-4504 | 36 | 910-20 | 21 | 960-12008DFL | 15 | 960-9016DFL | 14 | 992-03-35LZ1 | 73 |
| 811-4506 | 36 | 919-04-03C | 131 | 960-12010 | 11 | 960-9106 | 10 | 992-03-35Z1 | 73 |
| 811-4508 | 36 | 919-04-03P | 131 | 960-12010DFL | 15 | 960-9106-M14 | 10 | 992-04-32C | 143 |
| 811-4510 | 36 | 919-04-44P | 131 | 960-12012 | 11 | 960-9108 | 10 | 992-04-M121D | 143 |
| 811-4512 | 36 | 919-06-03D | 131 | 960-12012DFL | 15 | 960-9110 | 10 | 992-04-M121DBK | 143 |
| 811-4516 | 36 | 919-06-04P | 131 | 960-12016 | 11 | 960-9112 | 10 | 992-04-M121SC | 143 |
| 811-9004 | 36 | 919-08-06P | 131 | 960-12016DFL | 15 | 960-9116 | 10 | 992-04-M121SZ1 | 143 |
| 811-9006 | 36 | 919-10-06P | 131 | 960-15006 | 11 | 960-9120 | 10 | 992-04-M121Z1 | 143 |
| 811-9008 | 36 | 919-10-08P | 131 | 960-15008 | 11 | 961001 | 16 | 992-04-M122D | 143 |
| 811-9010 | 36 | 919-12-10P | 131 | 960-15008DFL | 15 | 961001 | 16 | 992-04-M122DBK | 143 |
| 811-9012 | 36 | 924-03C | 175 | 960-15010 | 11 | 961046 | 16 | 992-04-M122Z1 | 143 |
| 811-9016 | 36 | 924-03Z1 | 175 | 960-15010DFL | 15 | 961091 | 16 | 992-04-M12C | 143 |
| 812-4506 | 36 | 924-04Z1 | 175 | 960-15012 | 11 | 96776-06-M12D | 11 | 992-04-M12CH | 143 |
| 812-4508 | 36 | 924-06Z1 | 175 | 960-15012DFL | 15 | 96776-06-M14D | 11 | 992-04-M12D | 143 |
| 812-4510 | 36 | 936-04DB | 101 | 960-15016 | 11 | 99120-08 | 13 | 992-04-M12DBK | 143 |
| 812-9006 | 36 | 936-04DBK | 101 | 960-15016DFL | 15 | 99120-10 | 13 | 992-06-M12D | 143 |
| 812-9008 | 36 | 936-04DCH | 101 | 960-16 | 9 | 99120-12 | 13 | 992-06-M12DBK | 143 |
| 812-9010 | 36 | 936-04DR | 101 | 960-18006 | 11 | 99120-16 | 13 | 992-06-M141D | 143 |
| 812-9012 | 36 | 936-06DB | 101 | 960-18008 | 11 | 99150-08 | 13 | 992-06-M142D | 143 |
| 815-02C | 125 | 936-06DBK | 101 | 960-18008DFL | 15 | 99150-10 | 13 | 992-06-M142DBK | 143 |
| 815-03C | 125 | 936-06DCH | 101 | 960-18010 | 11 | 99150-12 | 13 | 992-06-M14D | 143 |
| 815-03CH | 125 | 936-06DR | 101 | 960-18010DFL | 15 | 99150-16 | 13 | 992-06-M14DBK | 143 |
| 815-03P | 125 | 936-08DB | 101 | 960-18012 | 11 | 99180-08 | 14 | 992-06-M16D | 143 |
| 815-03VC | 125 | 936-08DBK | 101 | 960-18012DFL | 15 | 99180-10 | 14 | 992-06-M16DBK | 143 |
| 815-03VCH | 125 | 936-08DCH | 101 | 960-18016 | 11 | 99180-12 | 14 | 992-08-M16D | 143 |
| 815-03VP | 125 | 936-08DR | 101 | 960-18016DFL | 15 | 99180-16 | 14 | 992-08-M16DBK | 143 |
| 815-04C | 125 | 936-10DB | 101 | 960-20 | 9 | 992-02-21C | 73 | 992-08-M18D | 143 |
| 815-04P | 125 | 936-10DBK | 101 | 960-3008 | 12 | 992-02-22C | 73 | 992-08-M18DBK | 143 |
| 815-06P | 125 | 936-10DCH | 101 | 960-3010 | 12 | 992-03-21BNC | 75 | 992-31BNC | 75 |
| 815-08P | 125 | 936-10DR | 101 | 960-3012 | 12 | 992-03-21C | 73 | 992-31BNCH | 75 |
| 815-10P | 125 | 936-12DB | 101 | 960-3016 | 12 | 992-03-22C | 73 | 992-31BNSC | 75 |
| 815-12P | 125 | 936-12DBK | 101 | 960-4506 | 10 | 992-03-31C | 73 | 992-31BNZ1 | 75 |
| 815-16P | 125 | 936-12DCH | 101 | 960-4508 | 10 | 992-03-31CH | 73 | 992-32BNC | 75 |
| 816-03-04P | 135 | 936-12DR | 101 | 960-4508DFL | 14 | 992-03-31D | 73 | 992-32BNZ1 | 75 |
| 816-03C | 135 | 936-16DB | 101 | 960-4510 | 10 | 992-03-31DBK | 73 | 993-03-31C | 74 |
| 816-03CH | 135 | 936-16DBK | 101 | 960-4510DFL | 14 | 992-03-31DBU | 73 | 993-03-31CH | 74 |
| 816-03P | 135 | 936-16DCH | 101 | 960-4512 | 10 | 992-03-31LC | 73 | 993-03-31D | 74 |
| 816-04-04P | 135 | 936-16DR | 101 | 960-4512DFL | 14 | 992-03-31LCH | 73 | 993-03-31DBK | 74 |
| 816-04P | 135 | 945-03-31P | 141 | 960-4516DFL | 14 | 992-03-31LZ1 | 73 | 993-03-31DBU | 74 |
| 818-31C | 118 | 945-03-M121P | 141 | 960-4606 | 10 | 992-03-31SC | 73 | 993-03-31LZ1 | 74 |
| 832-03C | 126 | 960-0106 | 10 | 960-4608 | 10 | 992-03-31SCBK | 73 | 993-03-31SC | 74 |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

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| 993-03-31SCBK | 74 | AN806-16DBK | 128 | AN816-10D | 135 | AN823-16D | 136 | AN837-06D | 127 |
| 993-03-31SZ1 | 74 | AN814-03D | 128 | AN816-10DBK | 135 | AN824-03C | 126 | AN837-06DBK | 127 |
| 993-03-31Z1 | 74 | AN814-03SD | 129 | AN816-12-08D | 135 | AN824-03D | 126 | AN837-08D | 127 |
| 993-03-32C | 74 | AN814-04D | 128 | AN816-12-08DBK | 135 | AN824-04C | 126 | AN837-10D | 127 |
| 993-03-32CBK | 74 | AN814-04DBK | 128 | AN816-12D | 135 | AN824-04D | 126 | AN837-12D | 127 |
| 993-03-32CH | 74 | AN814-04SD | 129 | AN816-12DBK | 135 | AN824-04DBK | 126 | AN837-16D | 127 |
| 993-03-32D | 74 | AN814-06D | 128 | AN816-16-12D | 135 | AN824-06-06-08D | 131 | AN840-04D | 137 |
| 993-03-32DBK | 74 | AN814-06DBK | 128 | AN816-16D | 135 | AN824-06D | 126 | AN840-06D | 137 |
| 993-03-32DBU | 74 | AN814-06SD | 129 | AN816-16DBK | 135 | AN824-06DBK | 126 | AN840-08D | 137 |
| 993-03-32Z1 | 74 | AN814-08D | 128 | AN818-03C | 118 | AN824-08D | 126 | AN840-10D | 137 |
| 993-31BNC | 76 | AN814-08DBK | 128 | AN818-03D | 129 | AN824-08DBK | 126 | AN840-12D | 137 |
| 993-31BNSC | 76 | AN814-10D | 128 | AN818-04D | 129 | AN824-10D | 126 | AN842-04D | 137 |
| 993-31BNZ1 | 76 | AN814-10DBK | 128 | AN818-06D | 129 | AN824-10DBK | 126 | AN842-06D | 137 |
| 993-32BNC | 76 | AN814-12D | 128 | AN819-03C | 118 | AN824-12D | 126 | AN842-08D | 137 |
| 993-32BNZ1 | 76 | AN815-02D | 125 | AN819-03D | 130 | AN824-12DBK | 126 | AN842-10D | 137 |
| 9930-08 | 13 | AN815-03D | 125 | AN819-04D | 130 | AN824-16D | 126 | AN842-12D | 137 |
| 9930-10 | 13 | AN815-04D | 125 | AN819-06D | 130 | AN827-04D | 126 | AN844-04D | 137 |
| 9930-12 | 13 | AN815-04DBK | 125 | AN821-03C | 125 | AN827-06D | 126 | AN844-06D | 137 |
| 9930-16 | 13 | AN815-05D | 125 | AN821-03D | 125 | AN832-03D | 126 | AN844-08D | 137 |
| 9945-06 | 12 | AN815-06D | 125 | AN821-04D | 125 | AN832-04C | 126 | AN844-10D | 137 |
| 9945-08 | 12 | AN815-06DBK | 125 | AN821-06D | 125 | AN832-04D | 126 | AN871-04D | 130 |
| 9945-10 | 12 | AN815-08D | 125 | AN821-06DBK | 125 | AN832-04DBK | 126 | AN871-06D | 130 |
| 9945-12 | 12 | AN815-08DBK | 125 | AN821-08D | 125 | AN832-06D | 126 | AN871-08D | 130 |
| 9946-08 | 13 | AN815-10D | 125 | AN821-08DBK | 125 | AN832-06DBK | 126 | AN871-10D | 130 |
| 9946-10 | 13 | AN815-10DBK | 125 | AN821-10D | 125 | AN832-08D | 126 | AN871-12D | 130 |
| 9946-12 | 13 | AN815-12D | 125 | AN821-12D | 125 | AN832-08DBK | 126 | AN919-01D | 131 |
| 9946-16 | 13 | AN815-12DBK | 125 | AN821-16D | 125 | AN832-10D | 126 | AN919-02D | 131 |
| 9960-08 | 13 | AN815-16D | 125 | AN822-03D | 136 | AN832-10DBK | 126 | AN919-02DBK | 131 |
| 9960-10 | 13 | AN815-16DBK | 125 | AN822-04-04D | 136 | AN832-12D | 126 | AN919-03D | 131 |
| 9960-12 | 13 | AN816-03-04D | 135 | AN822-04D | 136 | AN832-12DBK | 126 | AN919-06D | 131 |
| 9960-16 | 13 | AN816-03D | 135 | AN822-04DBK | 136 | AN832-16D | 126 | AN919-06DBK | 131 |
| 9990-06 | 12 | AN816-04-04D | 135 | AN822-06-02D | 136 | AN832-16DBK | 126 | AN919-07D | 131 |
| 9990-08 | 12 | AN816-04-04DBK | 135 | AN822-06-02DBK | 136 | AN833-03C | 127 | AN919-0D | 131 |
| 9990-10 | 12 | AN816-04-06D | 135 | AN822-06-06D | 136 | AN833-03D | 127 | AN919-10D | 131 |
| 9990-12 | 12 | AN816-04C | 135 | AN822-06-06DBK | 136 | AN833-04C | 127 | AN919-10DBK | 131 |
| 9991-08 | 12 | AN816-04D | 135 | AN822-06-08D | 136 | AN833-04D | 127 | AN919-12D | 131 |
| 9991-10 | 12 | AN816-04DBK | 135 | AN822-06D | 136 | AN833-04DBK | 127 | AN919-12DBK | 131 |
| 9991-12 | 12 | AN816-06-02D | 135 | AN822-06DBK | 136 | AN833-06D | 127 | AN919-14D | 131 |
| 9991-16 | 12 | AN816-06-02DBK | 135 | AN822-07D | 136 | AN833-06DBK | 127 | AN919-14DBK | 131 |
| AN804-03D | 127 | AN816-06-06D | 135 | AN822-07DBK | 136 | AN833-08D | 127 | AN919-15D | 131 |
| AN804-04D | 127 | AN816-06-06DBK | 135 | AN822-08-08D | 136 | AN833-08DBK | 127 | AN919-18D | 131 |
| AN804-06D | 127 | AN816-06-08D | 135 | AN822-08-12D | 136 | AN833-10D | 127 | AN919-19D | 131 |
| AN804-08D | 127 | AN816-06-08DBK | 135 | AN822-08D | 136 | AN833-12D | 127 | AN919-19DBK | 131 |
| AN806-02D | 128 | AN816-06D | 135 | AN822-08DBK | 136 | AN833-12DBK | 127 | AN919-20D | 131 |
| AN806-03D | 128 | AN816-06DBK | 135 | AN822-10D | 136 | AN833-16D | 127 | AN919-20DBK | 131 |
| AN806-04D | 128 | AN816-07D | 135 | AN822-12-08D | 136 | AN834-03C | 128 | AN919-22D | 131 |
| AN806-04DBK | 128 | AN816-07DBK | 135 | AN822-12D | 136 | AN834-03D | 128 | AN919-23D | 131 |
| AN806-06D | 128 | AN816-08-08D | 135 | AN822-16D | 136 | AN834-04D | 128 | AN919-23DBK | 131 |
| AN806-06DBK | 128 | AN816-08-08DBK | 135 | AN823-03D | 136 | AN834-06D | 128 | AN920-04D | 144 |
| AN806-08D | 128 | AN816-08-12D | 135 | AN823-04D | 136 | AN834-06DBK | 128 | AN920-04DBK | 144 |
| AN806-08DBK | 128 | AN816-08-12DBK | 135 | AN823-06-06D | 136 | AN834-08D | 128 | AN920-06-10D | 144 |
| AN806-10D | 128 | AN816-08D | 135 | AN823-06D | 136 | AN834-12D | 128 | AN920-06D | 144 |
| AN806-10DBK | 128 | AN816-08DBK | 135 | AN823-08-08D | 136 | AN837-03C | 127 | AN920-06DBK | 144 |
| AN806-12D | 128 | AN816-10-06D | 135 | AN823-08D | 136 | AN837-03D | 127 | AN920-08-10D | 144 |
| AN806-12DBK | 128 | AN816-10-06DBK | 135 | AN823-10-06D | 136 | AN837-04D | 127 | AN920-08-10DBK | 144 |
| AN806-16D | 128 | AN816-10-12D | 135 | AN823-10D | 136 | AN837-04DBK | 127 | AN920-08D | 144 |

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| AN920-08DBK | 144 | AN950-10-06D | 132 | BN507PSB | 77 | CPL-824-10D | 133 | DR-25-1 | 178 |
| AN920-10-08D | 144 | AN950-10-06DBK | 132 | BN508C | 77 | CPL-824-12D | 133 | DR-25-1/2 | 178 |
| AN920-10-08DBK | 144 | AN950-10-08D | 132 | BN508PSB | 77 | CPL-824-12DBK | 133 | DR-25-1/4 | 178 |
| AN920-10D | 144 | AN950-10-08DBK | 132 | BN510C | 77 | CPL-826-03D | 134 | DR-25-3/4 | 178 |
| AN920-10DBK | 144 | AN950-12-08D | 132 | BN510P | 77 | CPL-826-04D | 134 | DR-25-3/8 | 178 |
| AN920-12D | 144 | AN950-12-08DBK | 132 | BN510PSB | 77 | CPL-826-04DBK | 134 | DW-09 | 174 |
| AN924-03D | 129 | AN950-12-10D | 132 | BN512PSB | 77 | CPL-826-06D | 134 | DW-10 | 174 |
| AN924-04C | 129 | AN950-12-10DBK | 132 | BN561PSB | 77 | CPL-826-06DBK | 134 | DW-11 | 174 |
| AN924-04D | 129 | AN950-16-12D | 132 | BN704C | 77 | CPL-826-08D | 134 | DW-20A | 174 |
| AN924-04DBK | 129 | AN951-03-04C | 132 | BN704P | 77 | CPL-826-10D | 134 | DW-21B | 174 |
| AN924-06D | 121 | AN951-03-04D | 132 | BN704PSB | 77 | CPL-826-10DBK | 134 | DW-23C | 174 |
| AN924-06D | 129 | AN951-03-04DBK | 132 | BTL-300Z1 | 71 | CPL-826-12D | 134 | DW-24CC | 174 |
| AN924-06DBK | 121 | AN951-04-06D | 132 | BTL-303Z1 | 71 | CPL-826-12DBK | 134 | DW-25D | 174 |
| AN924-06DBK | 129 | AN951-04-06DBK | 132 | BTL-304Z1 | 71 | CPL-826-16D | 134 | DW-26E | 174 |
| AN924-08D | 129 | AN951-06-08D | 132 | BTL-305Z1 | 71 | CPL-9004 | 134 | DW-27F | 174 |
| AN924-08DBK | 129 | AN951-06-08DBK | 132 | BTL-306Z1 | 71 | CPL-9004BK | 134 | DW-28FF | 174 |
| AN924-10D | 129 | AN951-08-10D | 132 | BTL-307Z1 | 72 | CPL-9006 | 134 | EKC622-04 | 177 |
| AN924-10DBK | 129 | AN951-08-10DBK | 132 | BTL-308Z1 | 72 | CPL-9006DBK | 134 | EKC622-08 | 177 |
| AN924-12D | 129 | AN951-10-12D | 132 | BTL-310Z1 | 71 | CPL-9008 | 134 | EKC622-12 | 177 |
| AN924-12DBK | 129 | AN951-10-12DBK | 132 | BTL-313Z1 | 71 | CPL-9008BK | 134 | EKC622-16 | 177 |
| AN924-16D | 129 | AN951-12-16D | 132 | BTL-314Z1 | 71 | CPL-9010 | 134 | FBM2183 | 144 |
| AN924-16DBK | 129 | AN971-04D | 130 | BTL-315Z1 | 71 | CPL-9012 | 134 | FCO-08V | 156 |
| AN929-02D | 129 | AN971-06D | 130 | BTL-316Z1 | 71 | CPL-903C | 134 | FCO-10V | 156 |
| AN929-03D | 129 | AN971-08D | 130 | BTL-317Z1 | 72 | CPL-903D | 134 | FCO-12V | 156 |
| AN929-04D | 129 | AN971-10D | 130 | BTL-318Z1 | 72 | CPL-904D | 134 | FCO-16V | 156 |
| AN929-04DBK | 129 | AN971-12D | 130 | BTL-322Z1 | 71 | CPL-904DBK | 134 | FCO-20V | 156 |
| AN929-05D | 129 | AN971-16D | 130 | CPL-03C | 133 | CPL-906D | 134 | FCO-24V | 156 |
| AN929-06D | 129 | AN971-20D | 130 | CPL-03D | 133 | CPL-906DBK | 134 | FCO-28V | 156 |
| AN929-06DBK | 129 | AW760-04D | 180 | CPL-04C | 133 | CPL-908D | 134 | FCO-32V | 156 |
| AN929-08D | 129 | AW760-06D | 180 | CPL-04D | 133 | CPL-908DBK | 134 | FCO-40V | 156 |
| AN929-08DBK | 129 | AW760-08D | 180 | CPL-04DBK | 133 | CPL-9104 | 134 | FCO-48V | 156 |
| AN929-10D | 129 | AW760-10D | 180 | CPL-06D | 133 | CPL-9104BK | 134 | FCO-56V | 156 |
| AN929-10DBK | 129 | AW760-12D | 180 | CPL-06DBK | 133 | CPL-9106 | 134 | FCV-04 | 173 |
| AN929-12D | 129 | AW760-16D | 180 | CPL-08D | 133 | CPL-9106BK | 134 | FCV-06 | 173 |
| AN929-12DBK | 129 | AW760-SET | 180 | CPL-08DBK | 133 | CPL-9108 | 134 | FCV-08 | 173 |
| AN929-16D | 129 | B1213 | 117 | CPL-10D | 133 | CPL-9108BK | 134 | FCV-10 | 173 |
| AN929-16DBK | 129 | BL775-03C | 75 | CPL-10DBK | 133 | CPL-9110D | 134 | FF572-04 | 173 |
| AN929-20D | 129 | BL775-03SC | 75 | CPL-12D | 133 | CPL-9110 | 134 | FF572-06 | 173 |
| AN929-20DBK | 129 | BL775-44C | 87 | CPL-12DBK | 133 | CPL-9110BK | 134 | FF572-08 | 173 |
| AN932-01D | 137 | BL992-31C | 75 | CPL-16D | 133 | CPL-9112 | 134 | FF572-10 | 173 |
| AN932-02D | 137 | BL992-31SC | 75 | CPL-16DBK | 133 | CPL-9116 | 134 | FG900-04S | 176 |
| AN932-03D | 137 | BL992-32C | 75 | CPL-823-03C | 133 | CPL-912D | 134 | FG900-06S | 176 |
| AN932-04D | 137 | BL993-31C | 75 | CPL-823-03D | 133 | CUW-M12 | 174 | FG900-08S | 176 |
| AN932-05D | 137 | BL993-31SC | 75 | CPL-823-04D | 133 | CUW-M14 | 174 | FG900-12S | 176 |
| AN932-06D | 137 | BL993-32C | 75 | CPL-823-06D | 133 | CUW-M16 | 174 | FG900-16S | 176 |
| AN938-04D | 128 | BLT-301NY | 72 | CPL-823-06DBK | 133 | CUW-M18 | 174 | FG900-20S | 176 |
| AN938-06D | 128 | BLT-302NY | 72 | CPL-823-08D | 133 | CUW-M22 | 174 | FM10100-03Z1 | 145 |
| AN938-08D | 128 | BLT-311NY | 72 | CPL-823-10D | 133 | CW901-04 | 174 | FM10100-04 | 145 |
| AN938-10D | 128 | BLT-312NY | 72 | CPL-823-12D | 133 | CW901-06 | 174 | FM10125-03 | 145 |
| AN938-12D | 128 | BN-CAP | 77 | CPL-824-03D | 133 | CW901-08 | 174 | FM10150-03FZ1 | 145 |
| AN950-04-03D | 132 | BN506C | 76 | CPL-824-04D | 133 | CW901-10 | 174 | FM10324-03 | 145 |
| AN950-06-03D | 132 | BN506P | 76 | CPL-824-04DBK | 133 | CW901-12 | 174 | FM10324-04 | 145 |
| AN950-06-04D | 132 | BN506PSB | 77 | CPL-824-06D | 133 | CW901-M12 | 174 | FM10716-03Z1 | 145 |
| AN950-08-04D | 132 | BN506PSB-HD | 77 | CPL-824-06DBK | 133 | CW901-M14 | 174 | FM10716-04 | 145 |
| AN950-08-06D | 132 | BN507C | 76 | CPL-824-08D | 133 | CW901-M16 | 174 | FP190 | 144 |
| AN950-08-06DBK | 132 | BN507P | 76 | CPL-824-08DBK | 133 | CW901-M18 | 174 | FP191 | 144 |

Material Key:

B: Brass, C: Stainless Steel, CH: Chrome Plated, D: Aluminium, P: Zinc Plated Carbon Steel, Z1: Silver Plated Carbon Steel

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|--------------|-----|-------------|-----|--------------|-----|-----------------|----|-----------------|----|
| FP192 | 144 | HL811-06D | 119 | PLCC-03 | 179 | S332-03Z1 | 65 | S5091-06-M12DMP | 86 |
| FP193 | 144 | HL814-06D | 119 | PLCC-04 | 179 | S440-03Z1 | 56 | S5091-06-M14DMP | 86 |
| FPM B | 149 | HL821-0406D | 119 | PLCC-04DBU | 179 | S441-03C | 56 | S5092-03-02C | 67 |
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| FRP-2BK | 178 | HL821-06D | 119 | PLCC-05 | 179 | S442-31C | 59 | S5092-03-04CH | 67 |
| G105-31A | 78 | HL822-06D | 119 | PLCC-05DBU | 179 | S442-31LZ1 | 59 | S5092-03-04Z1 | 67 |
| G105-31Z1 | 78 | HL823-0406D | 119 | PLCC-05DRD | 179 | S443-03BNZ1 | 56 | S5092-03-M12C | 67 |
| G105A | 78 | HL823-04D | 119 | PLCC-06 | 179 | S443-03C | 56 | S5092-03-M12CH | 67 |
| G106A | 78 | HL823-06D | 119 | PLCC-08 | 179 | S443-03Z1 | 56 | S5092-03C | 67 |
| G114 | 78 | HL824-06D | 120 | PLCC-10 | 179 | S444-31Z1 | 59 | S5092-03CBK | 67 |
| G115 | 78 | HL831-0406D | 120 | PLCC-12 | 179 | S445-0131C | 59 | S5092-03CH | 67 |
| G117Z1 | 78 | HL831-06D | 120 | PLCC-14 | 179 | S445-0131Z1 | 59 | S5092-03D | 67 |
| GA-3 | 144 | HL836-03C | 117 | PLCC-16 | 179 | S445-0132C | 59 | S5092-03DBK | 67 |
| GA-4 | 144 | HL836-04D | 117 | PLCC-20 | 179 | S445-0132Z1 | 59 | S5092-03DRD | 67 |
| GA-903 | 144 | HL836-06D | 117 | PLCC-24 | 179 | S445-03-M121C | 59 | S5092-03Z1 | 67 |
| GBPSM2 | 79 | HL837-06D | 120 | PV72-06D | 181 | S445-2031C | 60 | S5092-04-03C | 86 |
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| GM100 | 181 | HL843-06D | 120 | RC110-06D | 35 | S445-31C | 59 | S5092-05-M12CSW | 86 |
| GM100MTB | 181 | HL854-06D | 120 | RC110-08D | 35 | S445-31Z1 | 59 | S5093-02-03C | 68 |
| GM102 | 181 | HP-03BK | 177 | RC110-10D | 35 | S445-32Z1 | 59 | S5093-03-02C | 68 |
| GM104 | 181 | HS760-03BK | 177 | RC110-12D | 35 | S445-4531C | 60 | S5093-03-04C | 68 |
| GP101 | 181 | HS760-03CL | 177 | RC110-16D | 35 | S445-4531Z1 | 60 | S5093-03-04CH | 68 |
| GPH01 | 180 | HS760-06BK | 177 | RC110-20D | 35 | S445-9031C | 60 | S5093-03-04Z1 | 68 |
| GPH02 | 180 | HS760-06CL | 177 | RC600-02CMP | 70 | S445-9031Z1 | 60 | S5093-03-M12C | 68 |
| GQD03BP03BEA | 149 | HS760-10BK | 177 | RC600-03CTUV | 70 | S445-90M121C | 60 | S5093-03-M12CH | 68 |
| GQD03BP03EA | 149 | K1213 | 117 | RC600-03TUV | 70 | S446-03-M121LP | 59 | S5093-03C | 68 |
| GQD03BP03F | 149 | LWD594 | 179 | RC600-04CHP | 89 | S446-03-M121Z | 59 | S5093-03CBK | 68 |
| GQD03BP04EA | 149 | LWD595 | 179 | RC600-04CMP | 87 | S446-31C | 59 | S5093-03CH | 68 |
| GQD03BP04F | 149 | LWD596 | 179 | RC600-05CMP | 87 | S446-31EXC | 64 | S5093-03D | 68 |
| GQD03BS03EA | 149 | LWD597 | 179 | RC600-06CHP | 89 | S446-31EXZ1 | 64 | S5093-03DBK | 68 |
| GQD03BS03F | 149 | LWD598 | 179 | RC600-06CMP | 87 | S446-31Z1 | 59 | S5093-03DRD | 68 |
| GQD03BS04EA | 149 | N1401 | 118 | RC600-08CHP | 89 | S449-03Z1 | 56 | S5093-03Z1 | 68 |
| GQD03BS04F | 149 | N1406 | 118 | RC600-08CMP | 87 | S451-31C | 60 | S5093L-03C | 67 |
| GQD05BP04BEA | 149 | N1460 | 118 | RCC711-06D | 29 | S451-31Z1 | 60 | S5093L-03CBK | 67 |
| GQD05BP04F | 149 | N8401 | 118 | RCC711-08D | 29 | S452-31C | 60 | S5093L-03Z1 | 67 |
| GQD05BP06F | 149 | N8402 | 118 | RCC711-10D | 29 | S452-31Z1 | 60 | S5093R-03C | 67 |
| GQD05BS04EA | 149 | N8412 | 118 | RCC711-12D | 29 | S492-31Z1 | 59 | S5093R-03CBK | 67 |
| GQD05BS04F | 149 | N8426 | 118 | RCC711-16D | 29 | S5070-03C | 69 | S5093R-03Z1 | 67 |
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| GQD08BP06F | 149 | N8462 | 118 | RCC910-06D | 35 | S5070-03CH | 69 | S5094-03C | 68 |
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| GQD08BS06F | 149 | OR6290-04 | 175 | RCC910-10D | 35 | S5091-02-03C | 67 | S5094-03CH | 68 |
| GQD08BS08F | 149 | OR6290-06 | 175 | RCC910-12D | 35 | S5091-03-04Z1 | 67 | S5094-03D | 68 |
| GQD08PP06BF | 151 | OR6290-08 | 175 | RCC910-16D | 35 | S5091-03-M12C | 67 | S5094-03DBK | 68 |
| GQD08PP06F | 151 | OR6290-10 | 175 | RCC910-20D | 35 | S5091-03C | 67 | S5094-03DRD | 68 |
| GQD08PP08F | 151 | OR6290-12 | 175 | RCC960-06D | 16 | S5091-03CBK | 67 | S5094-03Z1 | 68 |
| GQD08PS06F | 151 | PHS-03CL | 179 | RCC960-08D | 16 | S5091-03CH | 67 | S5094L-03C | 68 |
| GQD08PS06LF | 151 | PHS-03CL-CF | 179 | RCC960-10D | 16 | S5091-03SD | 67 | S5094L-03CBK | 68 |
| GQD08PS08F | 151 | PHS-03DB | 179 | RCC960-12D | 16 | S5091-03Z1 | 67 | S5094L-03Z1 | 68 |
| GQD08PS08LF | 151 | PHS-03DB-CF | 179 | RCC960-16D | 16 | S5091-04-03C | 86 | S5094R-03C | 69 |
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| GQD14PS12F | 151 | PHS-03DR-CF | 179 | ROV-06-FIA | 173 | S5091-04-M12CMP | 86 | S5094R-03Z1 | 69 |
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| GR2 | 79 | PHS-06DR | 179 | S321-03SMZ1 | 65 | S5091-04Z1MP | 86 | S5095-03CBK | 70 |
| GR3 | 79 | PHS-08DB | 179 | S321-03Z1 | 65 | S5091-05-M10CMP | 86 | S5095-03Z1 | 70 |
| HL591-06D | 119 | PHS-08DR | 179 | S323-03Z1 | 65 | S5091-05-M12Z1 | 86 | S5097-03-02C | 68 |

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| S5097-03CBK | 68 | S6001-31CVW | 61 | S6180-04CHP | 89 | S772-03Z1 | 64 | SP-225 | 79 |
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| S5097-03D | 68 | S6001-31Z1AU | 61 | S6645-03CV | 57 | S816-04-03P2MP | 86 | SP-241T | 79 |
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| S5097-03DRD | 68 | S6001-31Z1MN | 61 | S6690-03CV | 58 | SB30225CL | 112 | SPHA0280-002 | 79 |
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| S5099-03C | 69 | S6045-03C | 57 | S749-03-31C | 61 | SB30350CL | 112 | SS902-08 | 175 |
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| S5099-03CH | 69 | S6045-04CMP | 85 | S749-03-32Z1 | 61 | SB30400CL | 112 | SS902-10 | 175 |
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