

POWERHOSE PLUS FITTINGS

IDENTIFYING FITTINGS As you see there is a wide variety of brake line fittings so you must be careful to select the right type of fitting and the correct thread. Once you have selected the fitting the following table will help you to identify the thread:-

Suzuki and most European machines	10 x 1mm/10x1.25mm
Honda, Yamaha, Kawasaki and Triumph	10 x 1.25mm
Early Triumph and Norton	3/8 UNF
Harley Davidson	7/16 + 3/8 UNF

POWERHOSE PLUS FITTINGS

All fittings (unless specified) are fully available in stainless steel or chrome plated mild steel.

1/8 BSP BANJO CONNECTORS

3/60081	-3 straight extended neck
3/60082	20 degree
3/60084	90 degree
3/60085	20 degree side bend
3/60082R	20 degree with 20 degree side bend Right
3/60082L	20 degree with 20 degree side bend Left
3/60086	75 degree
3/60087	45 degree
3/60088	7/16th (stainless steel)

BANJO BOLTS

SINGLE

110100D	10 x 1
110125D	10 x 1.25
110375D	3/8 UNF
110716D	7/16 (Stainless)
710100-L	10 x 1 with light switch (zinc only)
710125-L	10 x 1.25 with light switch (zinc only)

DOUBLE

210100D	10 x 1
210125D	10 x 1.25
210375D	3/8 UNF
210716D	7/16 (Stainless)
810100	10 x 1 with light switch (zinc only)
810125	10 x 1.25 with light switch (zinc only)

Banjo bolts fitted with bleed nipples are also available.

1/8 BSP ADAPTORS

3/60100A	10 x 1 Convex
3/70100A	10 x 1 Concave
3/60125A	10 x 1.25 Convex
3/70125A	10 x 1.25 Concave
3/60375A	3/8 UNF Convex
3/70375A	3/8 UNF Concave

Bulkhead Adaptors

3/80100A	10 x 1
3/80125A	10 x 1.25
3/80375A	3/8 UNF

1/8 BSP FEMALE ADAPTORS

3/60100FA	10 x 1
3/60125FA	10 x 1.25
3/60375FA	3/8 UNF

1/8 BSP T CONNECTOR

776	1/8 BSP (chrome or nickel)
HD776A	Harley Davidson pressure switch

COPPER WASHERS

C101	10mm
C111	7/16

VENHILL 

www.venhill.co.uk

Performance
Safety
Quality
Style

Our range of other products include:

Stainless steel brake lines

Featherlight control cables

Speedo & tacho cables

Controls & tools

Magura

Cable components

for further information

please contact your local distributor or Venhill Engineering Ltd

Venhill Engineering Ltd.
21 Ranmore Road, Dorking Surrey RH4 1HE U.K.

Tel: +44 (0) 1306 885111
Fax: +44 (0) 1306 740535
Email: info@venhill.co.uk

YOUR DEALER - DISTRIBUTOR

VENHILL 

Performance
Safety
Quality
Style

POWERHOSE PLUS

The Ultimate Performance Braided Brake Line System



SEE INSIDE FOR FITTING INSTRUCTIONS

POWERHOSE PLUS

is the factory tested customer friendly brake line system designed to cut out the hassle and uncertainty associated with old style hoses. Venhill's Powerhose Plus brake lines are factory finished and are the same at both ends with 1/8th BSP swivel socket nuts which simply tighten on to the chosen fittings for your machine.

OUR BRAKE LINES are manufactured from smooth bore Teflon tubing with a stainless steel overbraid which in turn is covered by a PVC coating in a variety of colours. The hose itself has a minimum burst pressure of 13000 PSI (950 BAR). The socket nuts fitted at the ends are also in stainless steel so the complete line is corrosion free.

THE UNIQUE CONSTRUCTION of Powerhose Plus makes it a truly universal, stress free and self aligning system. With the correct banjos and unions fitted and the correct length brake lines chosen, it all just bolts together.

All the fittings have the widely accepted 1/8" BSP thread and are fully re-usable. The banjo connectors are available as straight and angled versions. The banjo bolts are available in four different thread sizes to suit - Suzukis and most European machines - Honda, Yamaha, Kawasaki and Hinkley Triumphs - Norton and Meriden Triumphs - Harley Davidson.

The banjos, bolts and connectors etc are available in stainless steel or in a high quality chrome plated finish for the more cost conscious. BUT BEWARE, do not be tempted to use coloured and anodised alloy fittings from other sources as alloys and stainless steels do not mix. To do so creates a corrosive effect and it could render your machine unsafe and/or possibly fail a Ministry test. Use only the quality fittings recommended and supplied by Venhill.

FACTORY TESTED brake lines are your guarantee of safety and peace of mind. Each line is a manufactured part which is then gas pressure tested to 1500 PSI (110 BAR) in the Dorking factory. This unique testing procedure means that the brake line you have purchased (or are considering purchasing) has been made to - and achieved the highest possible standard.

TUV APPROVED - Venhill brake lines are now manufactured to TUV and DOT approved standards. In order to pass the stringent test, our brake lines have had to withstand a 10,000psi burst pressure test, 1,445N tensile test and a 35 hour 'whip test' during which our brake lines were continuously battered to check for resistance to fatigue. With this internationally recognised badge of quality, Venhill customers can be confident that their brake and clutch lines will withstand anything they encounter.

RACE PROVEN TECHNOLOGY Venhill's testing process is not confined to the factory. We've tested and used our controls in the motorsport world for more than 35 years. We have a simple policy -

we don't pay riders to use our products. We will provide their teams with the control cables and brake lines they need. We know that if a rider chooses us, he's choosing us because we're the best - not because he's been paid to do so.

USED BY PHASE ONE ENDURANCE - BRITAIN'S MOST SUCCESSFUL ENDURANCE TEAM FOR THE LAST DECADE:

- SMR Hydrex Honda - British Superbike team
- Bike it Dixon Yamaha - Motocross
- Seton Tuning - MRO Supersport 600 team
- Jacky Martens Racing KTM - Motocross
- Relentless Hooper Suzuki - Motocross
- Dave Clarke Racing - Supermotard

VENHILL BRAKE LINES HAVE BEEN A PART OF RACE SUCCESS FOR:

- Loctite Yamaha
- Reve Red Bull Ducati
- Castrol Honda

COATED HOSE Powerhose Plus hoses from Venhill feature a PVC coating over the stainless steel braiding.

The coating serves as an extra protection for the hose and also saves paintwork and polished finishes which may otherwise have been scuffed by bare hoses. The coating comes in the following colours; Red, blue, neon blue, yellow, orange, purple, green, black, white, and clear.

The clear covering means the stainless over braiding is highly visible so the quality finish and style can still be very much appreciated.

ROAD BIKE KITS Complete brake line kits for the more popular road bikes are available. The individual kits comprise all the brake lines, banjos and fittings for a particular make and model of machine. All the components are brought together under just one part number so buying Powerhose Plus is now even easier.

Where appropriate there are two line race layout conversions and rear hose kits and it is an easy way to buy a technical product if you have a Fireblade, ZZR11, R1, R6, Hayabusa etc.

MOTOCROSS/OFF ROAD POWERHOSE World, European and British champions speak volumes for Venhill's motocross and off road brake lines. Although still featuring the low expansion stainless steel braided hose as the heart of the product the off road brake lines are special in that they feature rigid sections, protective boots and special sleeveings for off road competition.

used by Relentless Hooper Suzuki; UTag Dixon Yamaha; Jacky Martens Racing KTM; Dave Clarke Racing.

1177 DOT 4 PLUS - This is a high specification DOT 4 brake fluid formulated to work with Teflon lined braided hose and conventional lines. Exceeds ISO 4925, US FMVSS 116 and Japanese standard K2233. Comes in the 250ml size - ideal for riders, dealers, and distributors.

FITTING INSTRUCTIONS To fit Powerhose Plus you will need an 11mm spanner together with a 6mm allen wrench for any banjo bolts. Please adhere to the following:-

1. Double check thread compatibility for master cylinder and callipers.
2. Loosely assemble brake lines to end fittings and attach to the machine. Remember to renew all copper washers where used.
3. Ensure that hoses are correctly routed - use the same routing as manufacturers original.
4. Tighten all connections (do not over tighten).
5. Check operation of fork and suspension arm to ensure that brake lines do not become trapped or stressed.
6. Bleed system in accordance with manufacturer's instructions.
7. Check all connections for leakage under pressure (operate brake lever and pressurise system).
8. Inspect regularly.

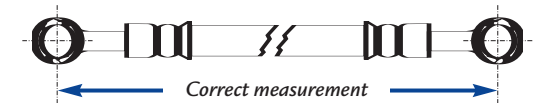
BUYING POWERHOSE PLUS

THREE EASY STEPS Powerhose Plus takes the hassle out of brake line replacement for the dealer and the user. Nothing could be simpler. If your machine is not listed in the Powerhose Plus application list (consult your dealer) follow these three easy steps.

1. Measure existing brake lines (as per diagram below), and identify your requirements.
2. Select the appropriate lines and fittings from the Powerhose Plus range contained in this leaflet and order from your local stockist.
3. Fit to your machine.

HOSE MEASUREMENT When calculating the dimensions of the replacement brake line - the original must be measured from the centre of the banjo at one end of the hose to the centre of the banjo at the opposite end of the hose. This gives the overall length of the brake line including fittings. To calculate the brake line without fittings deduct 40mm from the overall length. If the brake line is still fitted to the machine this measurement can be obtained with the careful use of a flexible tape measure. Be sure to follow the contours of the old hose exactly.

When connected up, brake lines should have an amount of 'free play', they must not be strained or placed under tension.



WARNING:

Do not use a line with a shorter measurement than the original

BRAKE LINES are available from your local stockist in lengths between 100mm and 1000mm in 25mm increments. Longer lines are also available on a special order basis. You can also customise your brake lines with coloured Spiro wrap or Shrink tubing supplied in 1m lengths.