

# POWERHOSE PLUS FITTINGS

**IDENTIFYING FITTINGS** As you see there is a wide variety of hose 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 zinc plated mild steel.

### 1/8 BSP BANJO CONECTORS

3/60081	-3 straight extended neck
3/60082	20 degree
3/60084	90 degree
3/60085	20 degree side bend
3/60085A	20 degree with 20 degree side bend Right
3/60085B	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

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

#### DOUBLE

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

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 (Zinc plated brass)
HD776A	Harley Davidson pressure switch

### COPPER WASHERS

C101	10mm
C111	7/16

# VENHILL

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Style

Our range of other products include:

Stainless steel hoses

Featherlight cables

Powerpad brake pads

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for further information

please contact your local distributor or Venhill Engineering Ltd

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## POWERHOSE PLUS

The Ultimate  
Performance  
Braided  
Brake Hose  
System

SEE INSIDE FOR  
FITTING INSTRUCTIONS

# POWERHOSE PLUS

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

**THE HOSES** or lines as some call them, are manufactured from smooth bore Teflon tubing with a stainless steel over braid which in turn is covered by a plastic 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 right lengths of hoses chosen, it all just bolts together.

All the fittings have the widely accepted 1/8<sup>th</sup> BSP thread and are fully reusable. 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 and bolts and connectors etc are available in stainless steel or in a high quality zinc plated and passivated 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** hoses are your guarantee of safety and peace of mind. Each hose 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 hose you have purchased (or are considering purchasing) has been made to – and achieved the highest possible standard.

**RACE PROVEN TECHNOLOGY** Venhill's testing process is not confined to the factory. Powerhose, the forerunner of Powerhose Plus has been used by many of the top race teams at GPs and on the Isle of Man for over a decade.

Castrol Yamaha and Honda and more recently the Revo Red Bull Ducati and the Phase One Endurance teams and John Reynolds and Phillip McCallen have all raced and won with Venhill products along with countless dealer teams and hundreds of privateer racers. That's products testing up at the sharp end.

**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, yellow, orange, black 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 hose kits for the more popular road bikes are available. The individual kits comprise of all the hoses, 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 hose 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.

*\*not available in all areas/countries.*

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

*\*used by the factory KTM and Husqvarna teams and Kawasaki UK, Yamaha UK, CAS Honda, Jacky Martens Racing, Jannes Vos Kawasaki etc.*

As a result of our many years experience as a British manufacturer of specialist braking and controls components we have added high specification sintered brake pads to complement Powerhose Plus.

## THE POWERPAD PLUS FEATURES ARE –

- High performance compounds
- minimal wear
- no brake fade
- kind to discs
- great in the wet
- part numbers cross reference to other manufacturers standard pads
- great in the dry

**AND – 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 14mm spanner for any banjo bolts. Please adhere to the following:-

1. Double check thread compatibility for master cylinder and callipers.
2. Loosely assemble hose 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 hose does not become trapped or stressed.
6. Bleed system in accordance with manufacturer's instructions.
7. Check all joins for leakage under pressure (operate brake lever and pressurise system).
8. Inspect regularly.

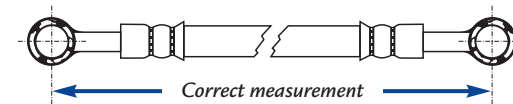
## BUYING POWERHOSE PLUS

**THREE EASY STEPS** Powerhose Plus takes the hassle out of brake hose 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 hoses (as per diagram below), and identify your requirements.
2. Select the appropriate hoses 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 hose – 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 hose including fittings. To calculate the hose with out fittings deduct 40mm from the overall length. If the hose 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, hoses should have an amount of "free play"; they must not be strained or placed under tension.



**WARNING:**  
Do not use a hose with a shorter measurement than the original.

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