



SUPA GUTTER PUMPER'S anti-vortex baffle stops air spiralling down the 20mm pipe once the water depth exceeds 25mm, allowing the pipe to flow full of water. Gravity then pulls this full flow downwards, creating a vacuum that sucks water into the pipe at high velocity. **Longer vertical drops generate higher flow rates.**

The first vertical drop must prime the second vertical drop to generate higher flow rates. To ensure the second drop primes, the total length of the initial horizontal pipe plus an equivalent 0.6 metre pipe length for each 90 degree elbow and an equivalent 0.3 metre pipe length for each 45 degree elbow between the Gutter Pumper and the second vertical drop is recommended to be **not more than fifty times the length of the first drop**. The first drop's length is measured from the top of the initial horizontal pipe to the gutter PLUS 25 mm from the gutter to the top of the anti vortex baffle. **See website for further details.**

EXAMPLES:

A 100mm drop will prime a **3.8 metre** initial horizontal pipe **plus** 2 x 20mm 90 degree elbows (**1.2 metres**).
A 300mm drop will prime a **13.2 metre** initial horizontal pipe **plus** 3 x 20mm 90 degree elbows (**1.8 metres**).

Pipework must remain vertical or horizontal. Sloping the pipe will break the prime.

DO NOT increase the 20mm pipe's diameter above ground level as this will break the vacuum at the point of increase.

Gutter Pumper presents a minimal obstruction but gutters must be kept clean. Clean gutter of all debris prior to installation.

FITTING INSTRUCTIONS

Use a 32mm hole saw to drill a hole in a flat area on the bottom of the gutter **near the gutter's high point**. Eaves gutters are installed with a W pattern to allow slope and downpipes are plumbed at the low point.

Place the Gutter Pumper into the hole with a washer on either side of the gutter and face the baffle's lowest edge towards the gutter's high point. Hold the Gutter Pumper tightly and tighten the nut with its flange side facing towards the Gutter Pumper. Be careful not to damage the Gutter Pumper's small vertical pillars.

Twist a 20mm class 12 PVC pressure pipe (the internal diameter is 23.7mm) into the Gutter Pumper, plumb vertically to the bottom of the fascia and fit a 90 degree PVC elbow to plumb a second 20mm PVC pressure pipe horizontally to the wall. **Gutter Pumper is tapered, molds to the pipe and does not require gluing.**

HANDY HINT: Measure and twist-fit the 20mm PVC pipe into the Gutter Pumper before fitting the Gutter Pumper through the 32 mm hole. It is very difficult to pull the pipe out of the Gutter Pumper without a twisting motion. This allows the nut to be easily **finger tightened** by pulling the pipe downwards rather than gripping the Gutter Pumper from above the gutter.

Use pressure pipe clips to attach the pipe to the wall. If a second vertical drop is not used and the pipe is plumbed along the top of the wall to a downpipe or tank, maximising the length of the first drop and increasing the horizontal pipe size to 25mm will reduce friction losses.

Gutter Pumper usually drains into a downpipe (unless blocked, downpipes do not contain less than three quarters air). This is usually done by fitting a 45 degree PVC elbow to the pressure pipe and then fitting a second short PVC pipe to the elbow. The pipe is then fitted into a hole drilled in the downpipe. Seal the gap.

AS/NZS 2032 states that PVC pressure pipes installed in direct sunlight must be either painted with light coloured water-based paints or otherwise protected.

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Check local plumbing regulations for scope of allowable DIY work