

Global leaders in flexible couplings,
drainage & plumbing systems



Lateral Connections

TA Flexible Saddle



TA20045

Component Parts



To connect a 110mm, 160mm or 200mm OD lateral pipe into a large diameter smooth wall pipe, including concrete, vitrified clay and PVC.

A product with performance...

- Available for both 45° and 90° lateral connections (200mm lateral available for 45° connection only)
- When correctly installed a Flexseal TA saddle will withstand 0.5 bar internal pressure.
- Can be applied to pipes of any wall thickness
- Seal secured with straps which pass around the outside of the main pipe

TA Saddle Range - Technical Details

	TA11090	TA11045	TA16090	TA16045	TA20045
External diameter of main pipe	160-400mm	160-400mm	200-400mm	200-400mm	300-600mm*
Lateral pipe	110mm PVC	110mm PVC	160mm PVC	160mm PVC	200mm PVC
Saddle component materials (all products)	Saddle body: Flexible PVC Gasket: 6mm 50 Shore Neoprene Shroud: 304 Stainless Steel End clamp: 304 Stainless steel				

*All steel on TA20045 is grade 316 only.

Full installation instructions overleaf



Installation Procedure

- Excavate sufficient area around the pipe to ensure adequate space for working. Space is needed under the pipe as the securing clamp band pass underneath.
- Determine the required position for the saddle and, using the gasket as a template, mark out the hole and the edges of the saddle. Ensure that with the 45° saddle the lateral pipe comes off in the required direction.
- Cut a hole in the pipe along this mark. Ensure that the hole allows the saddle to make full contact with the surface of the pipe.
- Spalling around the hole on concrete and clay pipes is expected but must be repaired if the spalling extends beyond 20mm from the edge of the hole.
- Position the gasket and saddle over the hole using the edge markings previously applied and ensure that the stainless steel saddle is located correctly and centrally onto the PVC product. When fitting pipes at the large end of the product range, the saddle will need to be pushed down to make contact with the pipe surface.
- The perforated bands supplied are suitable for fitting around a pipe with a 400mm (TA110 and TA160 ranges) or 600mm (TA200 product) outside diameter. It will be necessary to cut down the bands to a length to suit the actual outside diameter of the main pipe. The table is a guide to the required band lengths.

Tools Required

Screw driver or 8mm Nut Driver

Medium Duty Snips (For cutting the perforated straps to length)

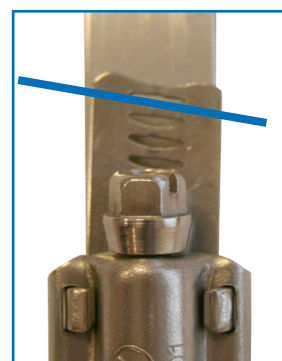
Marker Pen

Equipment for hole cutting appropriate to the pipe material

Main pipe OD	110mm Saddle	160mm Saddle	200mm Saddle
600mm	-	-	1450
500mm	-	-	1135
400mm	1100	1040	825
375mm	1030	970	745
350mm	950	890	665
325mm	870	810	590
300mm	795	735	510

Main pipe OD	110mm Saddle	160mm Saddle	200mm Saddle
275mm	715	655	-
250mm	635	575	-
225mm	560	500	-
200mm	480	420	-
175mm	400	340	-
150mm	320	260	-

- Drive all the bands into the housings located along one edge of the stainless steel saddle. Drive through until the strap starts to show beneath the hexagon head.
- Hold the saddle in the correct position and slide the bands under the pipe and drive them into the housings on the other side of the stainless steel saddle. Again continue until the band starts to show under the hexagon head.
- Check the position of the gasket, PVC saddle and stainless steel cover and then evenly tighten all clamps to the required torque. (13Nm)
- Position the lateral pipe into the saddle and tighten this clamp band to 6Nm.
- Replace and compact the bedding material under and around the pipe.
- Recheck the clamps meet the required torque.
- Any part of the saddle that is not protected by a stainless steel shroud should be backfilled with care to protect against deformation or puncturing from backfilling material. For example, carefully casting the exposed PVC in concrete before backfilling should suffice.
- Backfill with a suitable material.



Ensure the perforated strap is presented into the housing as shown above.

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