



Retention Sockets

Tee bend



Applications: traffic signals, street lighting, signage, vms/vas signs, cctv posts

The NAL retention socket with tee bend is engineered for the secure installation and retention of illuminated street furniture posts. Constructed from galvanised cast steel and ductile iron, the tee bend socket is available in a variety of sizes and configurations, ensuring compatibility with a wide range of highway infrastructure requirements.

Key features

- ◇ Robust construction from galvanised cast steel and ductile iron for maximum durability
- ◇ Accommodates multiple post sizes and types
- ◇ Stainless steel setscrews in a recessed chamber ensure secure retention of posts and street furniture
- ◇ Tee Bend accepts standard 100mm internal diameter (ID) ducting from any direction, supporting flexible installation
- ◇ Slow-radius inner bend simplifies cable routing for illuminated furniture requiring looping in and out

Advantages

- ◇ Withstands vehicle impacts, enabling rapid post replacement without the need for excavation
- ◇ Facilitates simple removal for seasonal, temporary, or wide load routes
- ◇ Allows civil works to proceed regardless of street furniture delivery timelines
- ◇ Flush-to-ground installation with a pedestrian cover plate supports early completion of civil works
- ◇ 360° swivel on tee bend permits ducting connection from any direction
- ◇ Enables ground-level cabling, reducing working-at-height and manual handling risks
- ◇ Supports remote installation of access chambers
- ◇ Allows precise orientation adjustment of installed furniture by authorised personnel
- ◇ Foundation design to EN40 or BD94/07 calculated by NAL



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Purchase specification

The socket head shall be constructed of cast steel to ISO 3755 230-450 or Ductile Iron to BS2789 500-7, galvanised on all internal and external surfaces.

The socket shall be capable of withstanding impact forces from vehicle impact to steel posts with wall thickness up to 6mm.

All assembly screws shall be M12 A2 stainless steel. It shall contain two M16 A2 stainless steel lateral fixing setscrews inside a locking chamber. This locking chamber shall be covered with a locking lid, EN124-B125 load rated fitted with RS worm lock.

The socket shall have a tee bend base.

The socket shall contain a steel protective pressure plate.

All operating components shall be serviceable on site.

The Retention Socket with Tee Bend consists of a cast steel or ductile iron head and locking lid together with a mild steel pressure plate, pedestrian plate and tee bend base. * **Varies on socket size**

Assembly screws: a2 stainless steel

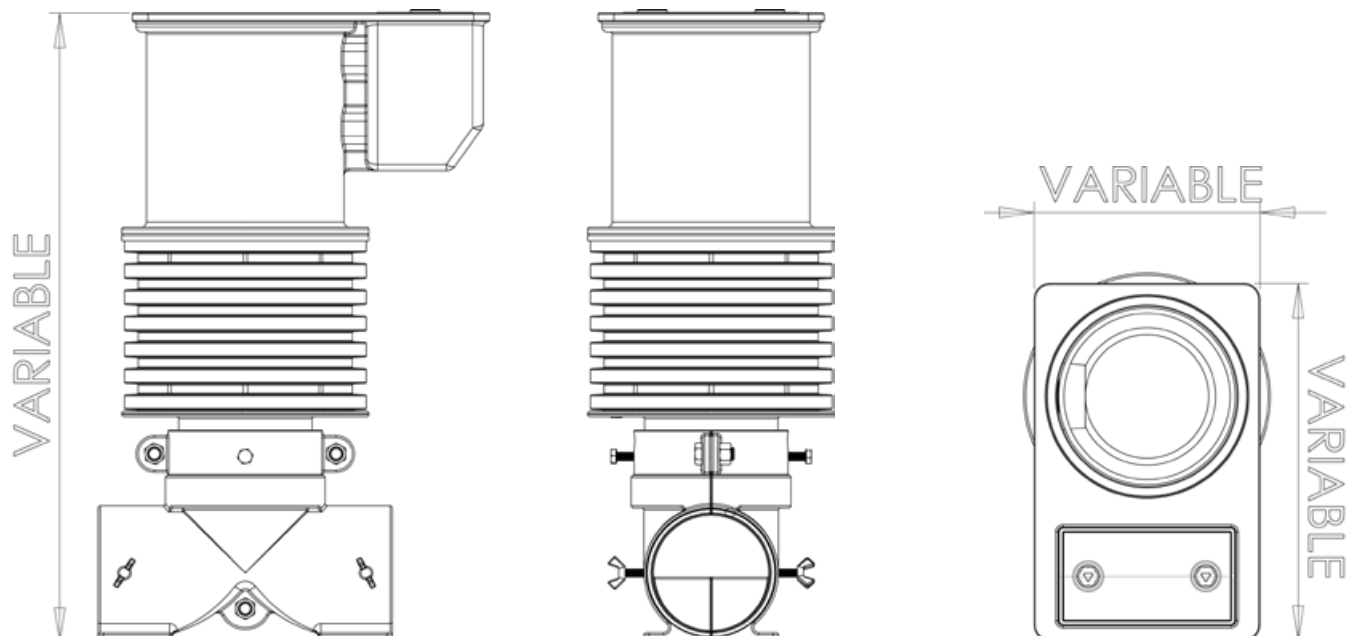
Pressure plate, pedestrian plate: mild steel or cast steel *

Setscrews: m16 a2 stainless steel

Head, locking lid: ductile iron or cast steel *

Body: polypropylene or cast steel *

Tee bend: ductile iron



Please see individual Retention Socket drawings for dimensions and individual specifications.
Refer to the NAL installation guide for correct installation and foundation details.

Standard Retention Socket Sizes		OD = Overall depth (mm) PPD = Pole planting depth (mm)				
RS size	Pole size	Depths	Tee Bend			
RS76	76.1mm	OD	450	600	750	
		PPD	230	380	530	
RS80x40	80x40mm	OD	450	600		
		PPD	230	380		
RS89	88.9mm	OD	465	600	750	900
		PPD	300	450	600	750
RS100x50	100x50mm	OD	450	600	750	900
		PPD	230	380	530	680
RS100x100	100x100mm	OD	450	600	750	900
		PPD	230	380	530	680
RS115	114.3mm	OD	465	600	750	900
		PPD	315	450	600	750
RS120x60	120x60mm	OD	450	600	750	900
		PPD	230	380	530	680
RS140	139.7mm	OD	450	600	750	900
		PPD	230	380	530	680
RS145(alu)	145mm	OD	450	600	750	900
		PPD	230	380	530	680
RS168 (alu with reducer plate)	165mm	OD	450	600	750	900
		PPD	230	380	530	680
RS168	168.3mm	OD	520	600	750	900
		PPD	300	380	530	680
RS177 (alu)	177mm	OD	520	600	750	900
		PPD	300	380	530	680
RS194	193.7mm	OD	520	600	750	900
		PPD	300	355	505	655
RS200 (alu)	200mm	OD	520	600	750	900
		PPD	300	350	500	650
RS200x100	200x100mm	OD	450	600	750	900
		PPD	230	380	530	680
RS219	219.1mm	OD	520	600	750	900
		PPD	300	320	470	620
RS226 (alu)	226mm	OD		600	750	900
		PPD		310	460	610
RS245	244.5mm	OD		600	750	900
		PPD		360	510	660

Standard Retention Socket Sizes		OD = Overall depth (mm) PPD = Pole planting depth (mm)				
RS size	Pole size	Depths	Tee Bend			
RS250 (alu)	250mm	OD		600	750	900
		PPD		350	500	650
RS273	273mm	OD		600	750	900
		PPD		320	470	620
RS324	323.9mm	OD		600	750	900
		PPD		380	530	680
RS406	406mm	OD	1200			
		PPD	980			