



# Retention Sockets

## Duckfoot Bend



### Applications:

#### Traffic Signals, Street Lighting, EV Charging, Signage, VMS/VAS Signs, CCTV Posts

The NAL Retention Socket with Duckfoot Bend is a range of galvanised cast steel and ductile iron sockets which securely retain in position all types of illuminated street furniture posts. They are manufactured in a range of sizes and shapes to suit the wide variety of street furniture being installed on the highway today.

All posts are secured into the socket by stainless steel setscrews, located in a recessed chamber in the socket head, which locks the post/street furniture in place. The Duckfoot bend accepts standard 100mm ID duct. It enables duct to be connected from any direction and with it's slow radius inner bend it simplifies the installation of cables to illuminated furniture.

### Advantages

- ◇ 360 Degree swivel on Duckfoot Bend allows ducting to be connected from any direction
- ◇ Withstands all vehicle impacts and eliminates the need for costly and disruptive excavations after knockdowns, as posts can be replaced in minutes
- ◇ Allows simple removal of seasonal sites, temporary sites and wide load routes
- ◇ Civil's contracts cannot be delayed by late deliveries of street furniture/posts
- ◇ Retention Sockets are flush with the ground with a pedestrian cover plate allowing civil works to be completed prior to installation of the street furniture
- ◇ Allows contractor to cable the post at ground level, eliminating the working at height and manual handling risks
- ◇ Access chambers can be installed remotely from the Retention Socket/post
- ◇ Allows easy orientation of installed furniture by authorised personnel



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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 duckfoot bend base.

The socket shall contain a steel protective pressure plate.

All operating components shall be serviceable on site.

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

**Assembly screws:** a2 stainless steel

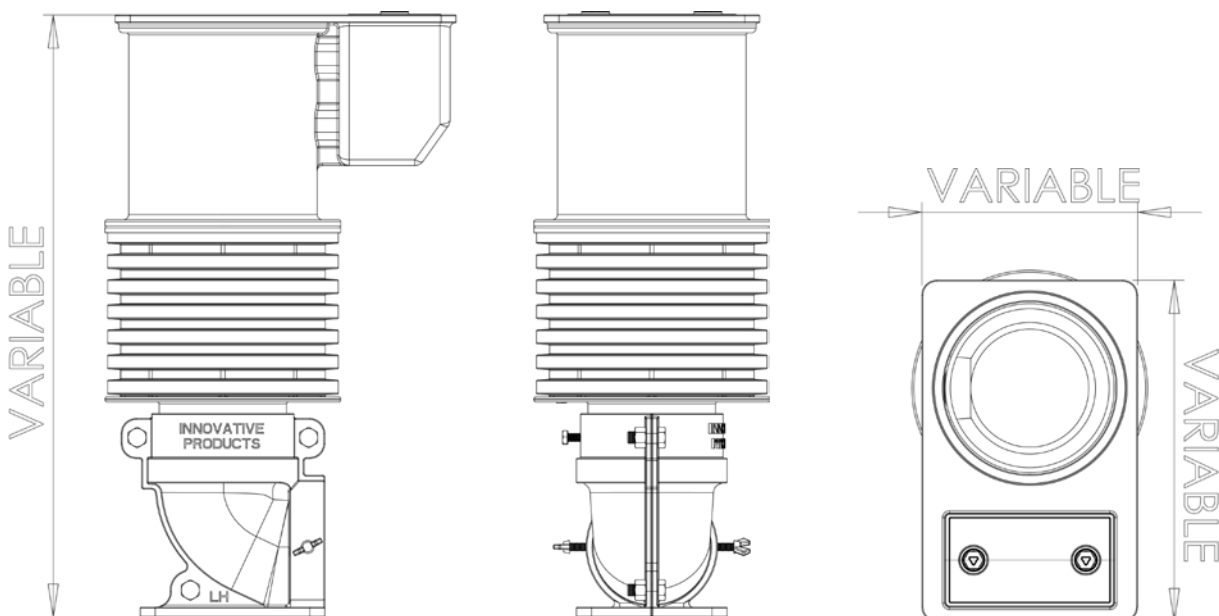
**Pressure plate, pedestrian plate:** mild steel or cast steel\*

**Setscrews:** m16 a2 stainless steel

**Head, locking lid:** ductile iron or cast steel\*

**Body:** polypropylene or cast steel\*

**Duckfoot:** composite or ductile iron



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Please see individual Retention Socket drawings for dimensions and individual specifications. Please 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		Duckfoot Bend		
RS60	60.3mm	OD	450	600		
		PPD	365	510		
RS76	76.1mm	OD	450	600	750	
		PPD	300	450	600	
RS80x40	80x40mm	OD	450	600		
		PPD	230	380		
RS89	88.9mm	OD	450	600	750	900
		PPD	300	450	600	750
RS100x50	100x50mm	OD	450	600	750	900
		PPD	230	380	530	680
RS100x60	100x60mm	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	450	600	750	900
		PPD	300	450	600	750
RS120x60	120x60mm	OD	450	600	750	900
		PPD	230	380	530	680
RS120x80	120x80mm	OD	450	600	750	900
		PPD	300	450	600	750
RS120x120	120x120mm	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
RS150x80	150x80mm	OD	450	600	750	900
		PPD	230	380	530	680
RS150x150	150x150mm	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	450	600	750	900
		PPD	230	380	530	680
RS177 (alu)	177mm	OD	450	600	750	900
		PPD	230	380	530	680
RS185x185	185x185mm	OD	450	600	750	900
		PPD	230	380	530	680
RS194	193.7mm	OD	450	600	750	900
		PPD	205	355	505	655



Standard Retention Socket Sizes		OD = Overall depth (mm) PPD = Pole planting depth (mm)				
RS size	Pole size	Depths		Duckfoot Bend		
RS200 (alu)	200mm	OD	450	600	750	900
		PPD	200	350	500	650
RS200x100	200x100mm	OD	450	600	750	900
		PPD	230	380	530	680
RS219	219.1mm	OD	450	600	750	900
		PPD	170	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
RS250 (alu)	250mm	OD		600	750	900
		PPD		350	500	650
RS250x150	250x150mm	OD		600	750	900
		PPD		380	530	680
RS265	265mm	OD		600	750	900
		PPD		330	480	630
RS273	273mm	OD		600	750	900
		PPD		320	470	620
RS280	280mm	OD		600	750	900
		PPD		380	530	680
RS300	300mm	OD		600	750	900
		PPD		380	530	680
RS324	323.9mm	OD		600	750	900
		PPD		380	530	680
RS406	406mm	OD	1200			
		PPD	980			



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