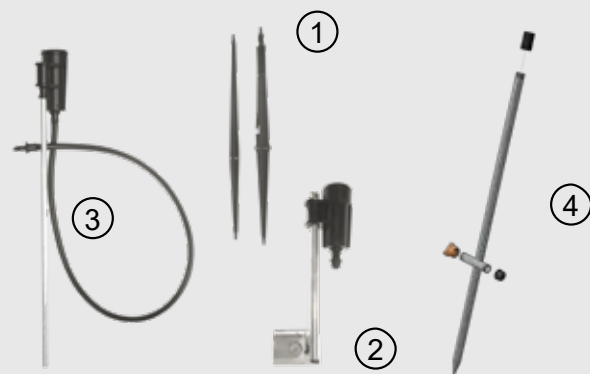


# Sprinkler carriers



Netafim Netherlands supplies various carriers, lines and connectors for outdoor or roof irrigation sprinklers. It is important to pay attention to the recoil forces caused by the sprinklers.

The recoil of a sprinkler with a high flow rate is larger than that of a sprinkler with a low flow rate. Netafim Netherlands supplies: spikes, roof irrigation and foil field stand, and field stand sets.

## 1) Spikes

There are 3 types of spike; type 31, 34 and 36 (see table and photos for an overview). There are 3 different diameters for connecting the sprinkler to the support: 4.5 mm, 8 mm or clamping to a 7 mm tube.

## 2) Roof irrigation carrier

For installation on the ridge, complete sets are available with agriconnector 7/10 or 10/12 mm, mounted on a 6 or 8 mm pin with a length of 15 cm. The 6 mm supports must always be fitted with an adapter in order to fit an 8 mm connection.

## 3) Field stand set

A field stand set consists of an adapter, PE line and galvanised metal pin (spike). Three different tube diameters can be selected, depending on the sprinkler flow rate: 4/7, 10/7 or 12/10 mm. A choice is also possible between a fixed or separable connection to a PE, PVC or Flexnet. The recoil forces act not only on the support, but also on the soil. The field stand must be sufficiently anchored in the ground to prevent the field stand getting space to force the sprinkler at an angle or even fall over. Weighing down of the support can therefore be necessary.

## Foil field stand

For cultivation soils where anchoring in the ground is not possible, Netafim Netherlands supplies a "foil field stand".

## 4) Weighted field stand

Netafim has developed a special weighted field stand made of 25 mm electrolytically galvanized steel pipe, especially for large sector sprinklers such as the Naan 233 B and 423 WP AG. The pointed bottom makes it easy to insert into any surface. Because 2 protruding sides are provided with  $\frac{3}{4}$ " external thread, it is possible to easily loop through pipes.

## APPLICATION

Outdoor, "under tree" and roof irrigation

## CHARACTERISTICS

- ✓ Metal or plastic supports of different heights
- ✓ Four different diameters: 30, 35, 40 and 50 cm
- ✓ Fixed or separable connection
- ✓ Connection to a PE, PVC or Flexnet line
- ✓ Suitable for permanent or demountable (seasonal) installation

## TECHNICAL DATA

### PE-sprinkler line

Flow rate	: 7/4 mm, recommended maximum flow rate 100 l/h
	: 10/7 mm, recommended maximum flow rate 400 l/h
	: 12/10 mm, recommended maximum flow rate 850 l/h
Max. pressure	: 4 bar
Material	: LDPE
Colour	: white/black or black
Connection	: see table

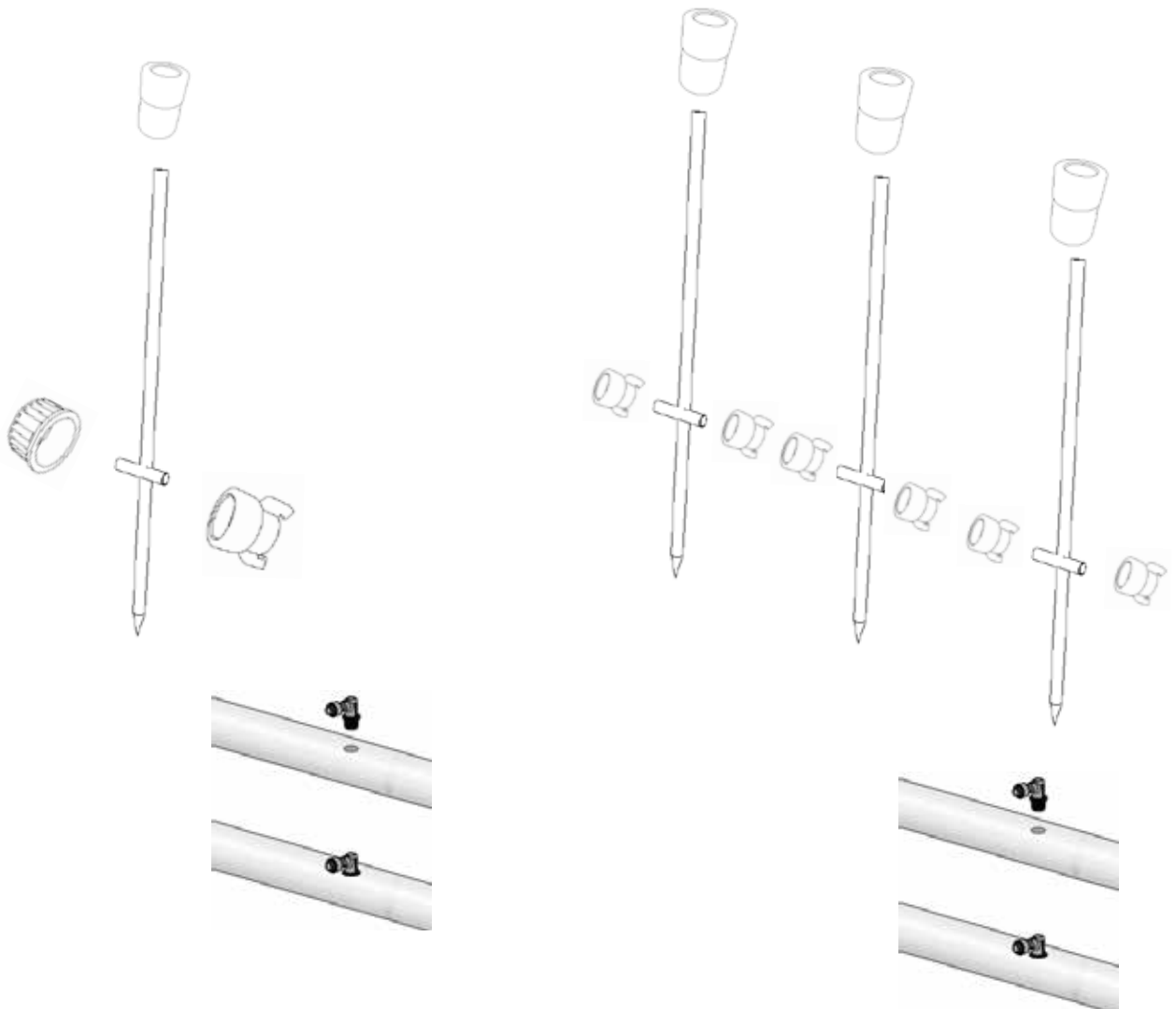
### Weighted field stand

Flow rate	: 6 m <sup>3</sup> /hour
Material	: black steel
Material	: Electrolytically galvanized (EN1403 en EN12329)
Size	: 25 x 2 mm (steel pipe)
Connection	: $\frac{3}{4}$ " BSPT external thread
Length	: 1 and 3 mtr
Length in soil	: 40 cm (by 1 mtr) and 100 cm (by 3 mtr)

### Available attachments for the weighted support

- ✓ GK (blind)couplings  $\frac{3}{4}$ "
- ✓ PVC screw cap  $\frac{3}{4}$ "  
PP reducing socket  $\frac{3}{4}$ " –  $\frac{1}{2}$ " (in x in) for  $\frac{1}{2}$ " x ext  
sprinklers (DAN-Mamkad/DAN-Super-10)
- ✓ PP reducing socket  $\frac{3}{4}$ " –  $\frac{1}{2}$ " (in x ext) for  $\frac{1}{2}$ " x ext  
sprinklers
- ✓ PP socket  $\frac{3}{4}$ " –  $\frac{3}{4}$ " (in x in) voor  $\frac{3}{4}$ " (ext) sprinklers  
(Naan-sprinkler 233 B  $\frac{3}{4}$ " in / 423 WP AG  $\frac{3}{4}$ " ext)

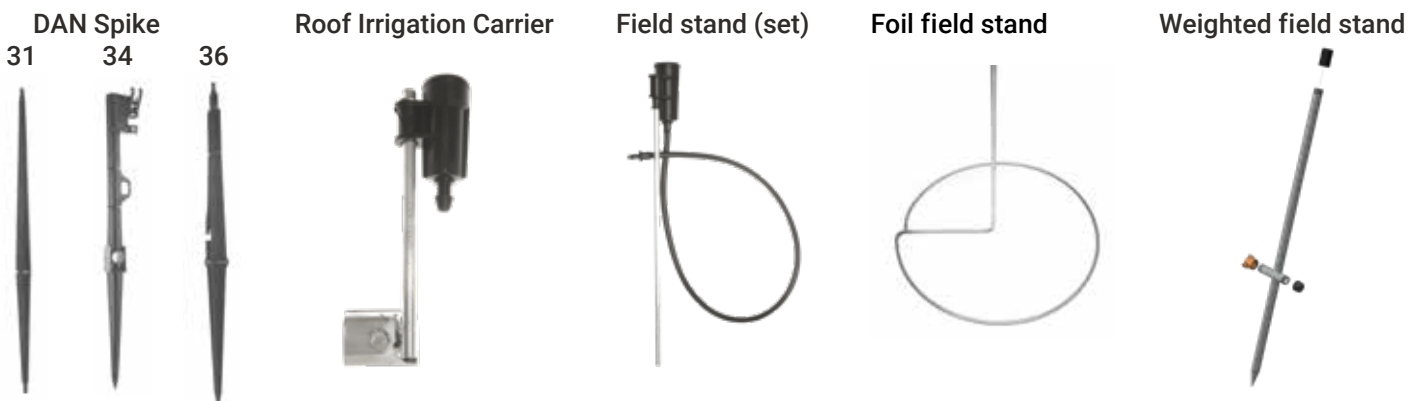
## POSSIBLE COMBINATIONS WITH WEIGHTED FIELD STAND

**Additional comments:**

- ✓ The connection between D-Net tap sprinklers and sprinkler supports must be made with special connection socks (regular socks do not fit).
- ✓ The figure shows a Flexnet connector. Flexnet is suitable for seasonal relocation of sprinklers. The distribution pipes can also be made of PE (permanent installation of sprinklers) or Tricoflex (very frequent displacement of sprinklers).

## SELECTION TABLE FOR SPIKES, FIELD STANDS AND CARRIERS

	Name	Description	Length			Connection	Colour	Remarks
			Total (cm)	In ground (cm)	Above ground (cm)			
DAN-Modular	DAN Spike 31	Plastic spike for butterfly	33	13	20	4,5	Black	Note: With 10 and 12 mm tubing there is little room to bend the pipe under the agriconnector. The pipe may misalign the support pin.
	DAN Spike 34	Plastic spike for microtube installation	36	16	20	Tube 7 (ext)	Black	
	DAN Spike 36	Plastic spike for agriconnector	36	16	20	4,5 / 8 (10)	Black	
	Roof Irrigation Carrier	Aluminium clip for roof irrigation (argiconnector)	15			6		
Mamkad / Super-10	Field stand spike	Galvanised metal pin	100	ca. 50 (*)	ca. 50 (*)	6		(*)= As an indication, the field stand is placed 50 cm in the ground. However, this is highly dependent on the substrate. For larger capacities, we recommend using a thicker pen. Depending on the type of soil, the sprinkler can "clear" the hole in the ground, making it unstable. This can be prevented by, for example, placing a tile over the field stand.  For larger capacities, we recommend using a thicker support and weighting the ground cloth support with a tile, or applying the upgraded support.
		Galvanised metal pin	150	ca. 50 (*)	ca. 100 (*)	6		
		Galvanised metal pin	150	ca. 50 (*)	ca. 100 (*)	8		
		Galvanised metal pin	on request	(*)	(*)	4,5 / 6 / 8		
	Foil field stand	Galvanised ring, diameter 30 cm with collar	40		40	6		
		Galvanised ring, diameter 30 cm with collar	50		50	6		
		Galvanised ring, diameter 35 cm with collar	60		60	8		
		Galvanised ring, diameter 40 cm with collar	75		75	8		
		Galvanised ring, diameter 50 cm with collar	100		100	8		
	Sector sprinklers	Is used when anchoring in the soil is not possible	Electrolytically galvanized according to: EN1403 en EN12329n	100 / 300	40 (1 m) 100 (3 m)	60 (1 m) 200 (3 m)	¾"	



## INSTALLATION &amp; MAINTENANCE

## Installation

- ✓ During assembly of LDPE-pipes onto the agriconnector, the LDPE-pipe should be heated shortly with heated water subsequently attaching a snap clip.
- ✓ The roof irrigation carrier should be installed securely to prevent damage to the roof ridge.
- ✓ The punch size of DAN-connectors (4/7 & 7/10) is 3,2 mm.
- ✓ The super-start connector has a punch size of 7 or 8 mm.