

DAN Suspendeds



Applying overhead irrigation with a suspended improves the uniformity and it is possible to integrate the irrigation with, for example, assimilation lighting or heating. The integration of the irrigation allows more light to fall on the crop. Netafim supplies "thin" and "thick" suspendeds with PE and PVC connection. FnF is a unique quick-coupling system for simple connection and disconnection.

The length of "thick" suspendeds should be at least 60 cm. This length is necessary for a straight alignment of the DAN sprinklers. A shorter length could mean the DAN sprinkler is hanging off center.

APPLICATION

The suspendeds are used predominantly in combination with assimilation lighting or in tunnels

CHARACTERISTICS

- ✓ Standard version in white with butterfly and filter
- ✓ Suitable for application with assimilation lighting or installation with limited space
- ✓ Different lengths and configurations available
- ✓ Reduces the irrigation shadow
- ✓ Available as bayonet version
- ✓ Suspendeds are designed light-tight in order to prevent the growth of algae

INSTALLATION & MAINTENANCE

Installation

- ✓ No soap/wetting agents may be used when employing suspendeds.
- ✓ For PE application the punch size is 3.2 mm (71850-105890 DAN hand punch 3.2 mm).

TECHNICAL DATA

	"Thin" suspendeds
Flow rate	: see table (rec: max. 105 l/h)
Line diameter	: 5/7 mm
Line length	: see table
Max. pressure	: 5 bar
Filtration	: Filter diameter up to 0.4 mm
Material	: acetal (butterfly and screen) : PE / PVC (tube) : PVC (weight) : acetal, silicone (LPD)
Colour	: white (weight) : white/black (tube)
Connection to line	: 3/8 WW or barb 4/7 mm
Connection to sprinkler	: 7 mm clamp or FnF
Option	: LPD with bayonet version : LPD with 7 mm clamp connection : Superfogger

	"Thick" suspendeds
	: see table (rec: min. 50 l/h, max. 300 l/h)
	: 7/10 mm
	: see table
	: 4 bar
	: Filter diameter up to 0.4 mm
	: acetal (butterfly and screen)
	: PE (tube)
	: PVC (weight)
	: acetal, silicone (LPD)
	: white
	: 3/8 WW or barb 4/7 mm
	: LPD (clamp or bayonet)
	: 7 mm clamp

Pressure loss: thin suspendeds (5/7)

Flow rate	Filter	Butterfly		Line 5/7				LPD LP		Total pressure loss suspended				
		3/8ww-5/7	30cm	40cm	60cm	80cm	100cm	5/7-con		30cm	40cm	60cm	80cm	100cm
(l/h)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		(m)	(m)	(m)	(m)	(m)
up to 50	0,1	0,1	0,1	0,1	0,2	0,2	0,3	0,5		0,8	0,8	0,9	0,9	1,0
105	0,5	0,3	0,7	0,9	1,3	1,8	2,2	1,5		3,0	3,2	3,6	4,1	4,5
120	0,7	0,6	0,9	1,2	1,8	2,5	3,1	2,2		4,3	4,6	5,2	5,9	6,5
160	1,1	1,1	1,4	1,9	2,9	3,8	4,8	3,5		7,1	7,6	8,6	9,5	10,5

Pressure loss: thick suspendeds (7/10)

Flow rate	Filter	Butterfly		Line 7/10				LPD LP		Total pressure loss suspended				
		3/8ww-7/10	60cm	80cm	100cm	125cm	150cm	7/10-con		60cm	80cm	100cm	125cm	150cm
(l/h)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		(m)	(m)	(m)	(m)	(m)
50	0	0	0,1	0,1	0,1	0,1	0,2	0,1		0,2	0,2	0,2	0,2	0,3
105	0,5	0,1	0,2	0,2	0,3	0,4	0,5	0,5		1,3	1,3	1,4	1,5	1,6
120	0,7	0,1	0,3	0,4	0,5	0,6	0,7	1,1		2,1	2,2	2,3	2,4	2,5
160	1,1	0,3	0,4	0,5	0,6	0,8	0,9	1,9		3,7	3,8	3,9	4,1	4,2
200	2	0,5	0,6	0,8	1	1,3	1,5	2,9		6,0	6,2	6,4	6,7	6,9
250	3	1	1,0	1,3	1,6	2,0	2,4	4,6		9,6	9,9	10,2	10,6	11,0
300	4,5	1,5	1,4	1,9	2,4	3,0	3,6	6,8		14,2	14,7	15,2	15,8	16,4

* Red coloured values are not recommended due to high pressure loss

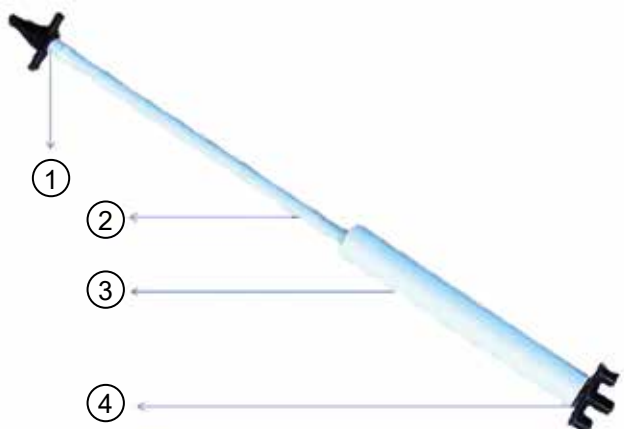
INSTALLATION & MAINTENANCE**Installation**

- ✓ Detergents may not be used when assembling suspendeds.
- ✓ For PE applications the punch size is 3.2 mm (71850-105890 DAN manual punch 3.2 mm).

Maintenance

- ✓ Suspendeds can only be used for rotating sprinklers and DAN foggers.
- ✓ Take account of pressure loss of suspendeds when calculating the hydraulic installation.

TABLE FOR DAN SUSPENDED COMBINATIONS



Thin suspended		
1	Connection to PVC line	Butterfly 3/8ww x 4/7 incl. filter 71850-105962
	Connection to PE line	Connector 4/7 - 4/7 71850-105917
	DAN-filters	71850-105892
2	Tube	PE white (black) 5/7 mm 30 cm 02080-451039
		PE white (black) 5/7 mm 40 cm 02080-451040
		PE white (black) 5/7 mm 60 cm 02080-451037
		(other lengths on request)
3	Weight	NaanDanJain Stabilizer 13 cm for 4/7 tube 71850-105954
4	Sprinkler connection	Butterfly barb 4/7 - clamp 71850-105930
		FnF connector (bayonet) 71850-105932
		LPD LD 4/7 - clamp 71850-211010
		LPD LD 4/7 - Bayonet 71850-282112
		LPD HD 4/7 - clamp 71850-211015

Thick suspended		
1	Connection to PVC line	Butterfly 3/8ww x 7/10 incl. filter 71850-105936
	Connection to PE line	Connector 4/7 - 7/10 71850-105919
	DAN-filters	71850-105892
2	Tube	PE white (black) 7/10 mm 60 cm 02080-001150
		PE white (black) 7/10 mm 80 cm 02080-001160
		PE white (black) 7/10 mm 100 cm 02080-001100
		(other lengths on request)
3	Weight	NaanDanJain stabilizer 13 cm for 7/10 tube 71850-105955
4	Sprinkler connection	Butterfly 7/10 - clamp 71850-105916
		LPD 7/10 - clamp 71850-211011
		LPD 7/10 - Bayonet 71850-282109

When ordering a special DAN suspended, we recommend to copy this page, circle your requirements and send it back to Netafim.