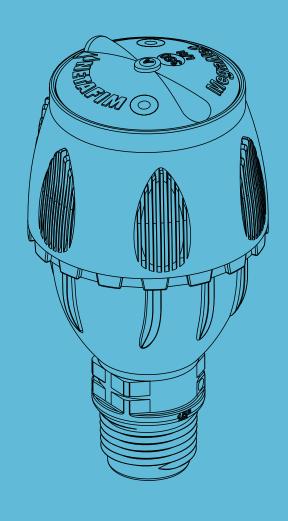
MEGANET[™]

ROTATING IMPACT SPRINKLER

USER MANUAL





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NOTE

All the drawings in this document are for the purpose of illustration only. The actual product details and infrastructure condition may differ in any actual application.



FOREIGN LANGUAGES

If you are reading this manual in a language other than the English language, you acknowledge and agree that the English language version shall prevail in any case of inconsistency or contradiction in interpretation or translation.

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INTRODUCTION

Use of symbols

The symbols used in this manual refer to the following:



WARNING

The following text contains instructions aimed at preventing bodily injury or direct damage to the crops, the product and/or the infrastructure.



CAUTION

The following text contains instructions aimed at preventing unwanted system operation, installation or conditions that, if not followed, might void the warranty.



ATTENTION

The following text contains instructions aimed at enhancing the effective use of the instructions in the manual.



NOTE

The following text contains instructions aimed at emphasizing certain aspects of the installation or operation of the product.



SAFETY FOOTWEAR

The following text contains instructions aimed at preventing foot injury.



TIP

The following text provides clarification, tips or useful information.

Aim of this manual

The aim of this manual is to guide the user in setting up, installation, operaton and maintenance of the $MegaNet^{TM}$ sprinkler in its various applications.

Safety instructions

- All applicable safety instructions and regulations must be observed and applied.
- The effectiveness of the equipment may be jeopardized or impaired if the equipment is used in a manner other than that specified by the manufacturer.



WARNING

In an agricultural environment - always wear protective footwear.

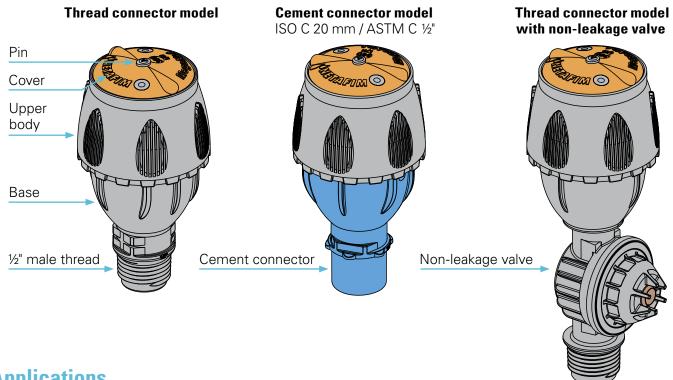


CALITION

When opening or closing any manual valve, always do so gradually, to prevent damage to the system by water hammer.

MEGANET™ ROTATING IMPACT SPRINKLER

Description



Applications

- For under-tree irrigation and shade/net houses.
- For vegetables and open field crops, open field nurseries, crops germination, frost mitigation, cooling fruit orchards and roof dust cleaning.

Benefits and features

Ensures high and uniform yield

 The MegaNet[™] has symmetric structure that allows the water split to two equal water jets, that contribute to a balanced sprinkler, providing very high water distribution uniformity.

Increased germination percentage

 Thanks to the gentle water jet, and relatively small drops near the ground, the MegaNet™ does not groove the soil along the whole irrigation event (including startup and shut off), which prevents from the seed to be exposed out of the soil.

Reduced maintenance cost

- The MegaNet[™] has a popup mechanism and it opened only during irrigation, this mechanism protects the nozzle and protect the sprinkler's moving parts, by preventing insects and dirt particles to get inside the sprinkler.
- Each MegaNetTM sprinkler has an integral filter that ensures clean water inside the nozzle. In addition, this filter can be easily cleaned if needed.
- Extended product life achieved by superior raw material composition resistant the chemicals, fertilizers, and sun exposure.

MEGANET™ ROTATING IMPACT SPRINKLER

Specifications

- 7 different nominal flow rates: 200, 250, 350, 450, 550, 650, 750 l/h. Nominal flow rates at 2.3 bar pressure.
- Recommended working pressure: 2.0 to 3.0 bar (at the sprinkler head).
- Recommended filtration: 400 micron / 40 mesh.

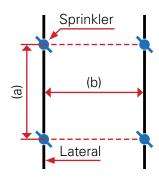


ATTENTION

Filtration method is to be selected based on the kind and concentration of the dirt particles existing

- Wherever sand exceeding 2 ppm exists in the water, a Hydrocyclone is to be installed before the main filter.
- When sand/ silt/ clay solids exceed 100 ppm, pre treatment will be applied according to Netafim[™] expert team's instructions.
- Can be installed on solid sets or in removable field stands.
- Made of UV-protected materials, durable to all climate conditions and nutrients injected in agricultural applications.
- Water trajectory: 15 degrees
- Inlet connector:
 - 1/2" Threaded inlet connector
 - 20 MM ISO inlet connector (to be glued to PVC)
 - 1/2" ASTM inlet connector (to be glued to PVC)
- Code colored locking pins and caps for easy identification.
- 2 balanced water jets.
- Individual filter in each sprinkler.
- MegaNet[™] sprinklers meet ISO 8026 standards (SI 1406) with production certified by the Israel Standards Institute (SII).

Performance



Rectangular spacing

MegaNet™ 15D Water trajectory angle: 15 degrees. Pin color code: Gray

Nozzle	0-1	Working	Flow	Wetted	Spacing - rectangular (m x m)						
size	Color code	pressure	rate	diameter*	7 x 8	8 x 8	9 x 8	10 x 8	9 x 9	9 x 10	10 x 10
(mm)	Coue	(bar)	(I/h)	(m)			Precipit	ation rat	e (mm/h)	
2.44	Groon	2.5	362	1./	6.4	5.6	5.0	4.5	4.4	4.0	3.6
2.44 Green	3.0	396	14	7.1	6.2	5.5	5.0	4.9	4.4	4.0	
2.79 Blue	2.5	461	16	8.3	7.2	6.4	5.8	5.7	5.1	4.6	
2.79	blue	3.0	505	10	9.0	7.9	7.0	6.3	6.2	5.6	5.0
3.08	Brown	2.5	553	16	9.9	8.6	7.7	6.9	6.8	6.1	5.5
3.00	DIOWII	3.0	605	10	10.8	9.5	8.4	7.6	7.5	6.7	6.1
3.37	Orango	2.5	678	16	12.1	10.6	9.4	8.5	8.4	7.5	6.8
3.37	Orange	3.0	743	10	13.3	11.6	10.3	9.3	9.2	8.3	7.4
3.68	Red	2.5	785	17	14.0	12.3	10.9	9.8	9.7	8.7	7.9
3.00	rieu	3.0	860	17	15.3	13.4	11.9	10.7	10.6	9.5	8.6

^{*} Performance table prepared under laboratory conditions, sprinkler head 0.5 meter above ground. At least 0.5 mm/h.

MegaNet™ 24D Water trajectory angle: 24 degrees. Pin color code: Black

Nozzle	0-1	Working	Flow	Wetted		Sp	acing - r	ectangu	ılar (m x	m)	
size	Color code	pressure	rate	diameter*	7 x 8	8 x 8	8 x 10	9 x 9	10 x 10	10 x 11	10 x 12
(mm)	mm) ^{code} (bar) (I/h) (m)						Precipita	ation rat	e (mm/h))	
1.85	Yellow	2.5	210	11	3.6	3.3					
1.65	reliow	3.0	230	11	3.8	3.6					
2.06	Durala	2.5	258	10	4.4	4.0					
2.00	06 Purple 3.0	283	12	4.8	4.4						
2.44 Green	2.5	362	14	5.9	5.6	4.5	4.4	3.6			
	Green	3.0	396	14	6.5	6.2	5.0	4.9	4.0		
2.79	Blue	2.5	461	17	8.1	7.2	5.8	5.7	4.6	4.2	3.9
2.79	Diue	3.0	505	17	8.7	7.9	6.3	6.2	5.0	4.6	4.2
3.08	Brown	2.5	553	18	10.0	8.6	6.9	7.2	5.5	5.0	4.6
3.00	DIOMII	3.0	605	10	10.1	9.5	7.6	7.5	6.1	5.5	5.1
2 27	Oranga	2.5	678	18	11.5	10.6	8.5	8.4	6.8	6.2	5.7
3.37 Orang	Orange	3.0	743	10	12.3	11.6	9.3	9.2	7.4	6.8	6.2
2.60	Dod	2.5	785	18	13.4	12.3	9.8	9.7	7.9	7.1	6.6
3.68	Red	3.0	860	19	15.0	13.4	10.7	10.6	8.6	7.8	7.2

^{*} Performance table prepared under laboratory conditions, sprinkler head 1.0 meter above ground.

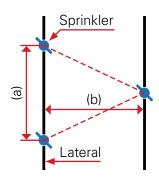
At least 0.5 mm/h.

| CU | ≥ 92% | ≥ 88% and < 92% | ≥ 86% and < 88% | < 86% |

^{*} Nominal flow rate at 2.3 bar working pressure.

^{**}Sprinkler height above ground: 15D = 0.5 m, 24D = 1.0 m. At least 0.5 mm/h.

Performance (cont'd)



Triangular spacing - isosceles**

MegaNet™ 15D Water trajectory angle: 15 degrees. Pin color code: Gray

Nozzle	Calar	Working	Flow	Wetted	Spacing - triangular (m x m)						
size	Color code	pressure	rate	diameter*	7 x 8	8 x 8	9 x 8	10 x 8	9 x 9	9 x 10	10 x 10
(mm)	Coue	(bar)	(I/h)	(m)			Precipita	ation rat	e (mm/h))	
2.44	Groon	2.5	362	1./	6.4	5.6	5.0	4.5	4.4	4.0	3.6
2.44 Green	3.0	396	14	7.1	6.2	5.5	5.0	4.9	4.4	4.0	
2.79 Blue	2.5	461	16	8.3	7.2	6.4	5.8	5.7	5.1	4.6	
2.79	blue	3.0	505	10	9.0	7.9	7.0	6.3	6.2	5.6	5.0
3.08	Brown	2.5	553	16	9.9	8.6	7.7	6.9	6.8	6.1	5.5
3.00	DIOWII	3.0	605	10	10.8	9.5	8.4	7.6	7.5	6.7	6.1
3.37	Orango	2.5	678	16	12.1	10.6	9.4				
3.37	Orange	3.0	743	10	13.3	11.6	10.3				
3.68	Red	2.5	785	17	14.0	12.3	10.9	9.8	9.7	8.7	
3.00	neu	3.0	860	17	15.3	13.4	11.9	10.7	10.6	9.5	

^{*} Performance table prepared under laboratory conditions, sprinkler head 0.5 meter above ground. At least 0.5 mm/h.

MegaNet™ 24D Water trajectory angle: 24 degrees. Pin color code: Black

Nozzle	Calan	Working	Flow	Wetted		S	pacing -	triangul	ar (m x n	n)	
size	Color code	pressure	rate	diameter*	7 x 8	8 x 8	8 x 10	9 x 9	10 x 10	10 x 11	10 x 12
(mm)	Coue	(bar)	(I/h)	(m)			Precipita	ation rat	e (mm/h)	
1.85	Yellow	2.5	210	11	3.6	3.3					
1.65	Tellovv	3.0	230	11	3.8	3.6					
2.06	Durolo	2.5	258	10	4.4	4.0					
2.00	3.0	283	12	4.8	4.4						
2.44 Green	2.5	362	14	5.9	5.6	4.5	4.4	3.6			
		3.0	396	14	6.5	6.2	5.0	4.9	4.0		
2.79	Blue	2.5	461	17	8.1	7.2	5.8	5.7	4.6	4.2	3.9
2.79	blue	3.0	505	17	8.7	7.9	6.3	6.2	5.0	4.6	4.2
3.08	Brown	2.5	553	18	10.0	8.6	6.9	7.2	5.5	5.0	4.6
3.00	DIOMII	3.0	605	10	10.1	9.5	7.6	7.5	6.1	5.5	5.1
2 27	Oranga	2.5	678	18	11.5	10.6	8.5	8.4	6.8	6.2	5.7
3.37 Orange	Orange	3.0	743	18	12.3	11.6	9.3	9.2	7.4	6.8	6.2
2.60	Dod	2.5	785	18	13.4	12.3	9.8	9.7	7.9	7.1	6.6
3.68	Red	3.0	860	19	15.0	13.4	10.7	10.6	8.6	7.8	7.2

^{*} Performance table prepared under laboratory conditions, sprinkler head 1.0 meter above ground.

At least 0.5 mm/h.

| CU | ≥ 92% | ≥ 88% and < 92% | ≥ 86% and < 88% | < 86% |

- An isosceles triangle is a triangle in which two sides are of equal length. The distance between 2 adjacent sprinklers on the same lateral (a) is not equal to the distance between 2 sprinklers on adjacent laterals. The height of the triangle represents the distance between adjacent laterals (b). Isosceles is usually referred to in open-field applications.
- An equilateral triangle is a triangle in which all three sides are equal. The distance between 2 adjacent sprinklers on the same lateral is equal to the distance between 2 sprinklers on adjacent laterals. Equilateral is occasionally referred to in orchards due to the tree planting pattern.

^{**}Do not confound isosceles with equilateral:

Max. lateral length - 10% flow variation

Inlet pressure: 3.0 bar

Lateral: PE 32 mm ID: 27.2 mm

Nominal	e	Distance between sprinklers (m)								
flow rate:	Slope	6	7	8	9	10				
200 l/h*		Max. lateral length (m)								
Llabill	2%	102	112	120	126	140				
Uphill	1%	108	119	128	144	150				
Flat terrain	0	120	133	144	153	170				
Downhill	-1%	126	140	152	171	180				
DOWITIII	-2%	132	147	160	180	190				

Nominal	9	Distance between sprinklers (m)								
flow rate:	Slope	6	7	8	9	10				
250 l/h*	S	Max. lateral length (m)								
Uphill	2%	90	98	112	117	120				
Ophili	1%	96	105	120	126	130				
Flat terrain	0	102	119	128	135	150				
Downhill	-1%	108	126	136	144	160				
DOWIIIII	-2%	114	126	144	153	170				

Nominal	e	Di	stance be	tween sp	rinklers (m)				
flow rate:	Slope	6	7	8	9	10				
350 l/h*	S	Max. lateral length (m)								
Llabill	2%	78	84	88	99	100				
Uphill	1%	84	91	96	108	110				
Flat terrain	0	84	98	104	108	120				
Downhill	-1%	90	98	112	117	130				
DOWITI	-2%	96	105	112	126	130				

Nominal	Ð	Distance between sprinklers (m)								
flow rate:	do	6	7	8	9	10				
450 l/h*	S	Max. lateral length (m)								
Uphill	2%	66	77	80	90	90				
Оргііі	1%	72	77	88	90	100				
Flat terrain	0	72	84	88	99	100				
Downhill	-1%	78	84	96	99	110				
DOWNINI	-2%	78	91	96	108	120				

Nominal	e	Di	stance be	tween sp	rinklers (m)				
flow rate:	Slope	6	7	8	9	10				
550 l/h*	S		Max. lateral length (m)							
Llabill	2%	60	70	72	81	80				
Uphill	1%	66	70	80	81	90				
Flat terrain	0	66	77	80	90	90				
Downhill	-1%	72	77	88	90	100				
וווווווויייטטן	-2%	72	77	88	99	100				

Nominal	e	Distance between sprinklers (m)								
flow rate:	Slope	6	7	8	9	10				
650 l/h*	S	Max. lateral length (m)								
Uphill	2%	54	63	64	72	80				
Oprilli	1%	60	63	72	72	80				
Flat terrain	0	60	63	72	81	80				
Downhill	-1%	60	70	72	81	90				
DOWNINIII	-2%	60	70	80	81	90				

Nominal	e	Di	stance be	tween sp	rinklers (m)				
flow rate:	lope	6	7	8	9	10				
750 l/h*	S		Max. lateral length (m)							
Linbill	2%	54	56	64	63	70				
Uphill	1%	54	56	64	72	70				
Flat terrain	0	54	63	64	72	80				
Downhill	-1%	54	63	72	72	80				
DOWITIIII	-2%	60	63	72	81	80				

^{*}Nominal flow rate at 2.3 bar working pressure.

Lateral: PE 40 mm ID: 36.8 mm

Nominal	e	Distance between sprinklers (m)						
flow rate:	Slope	6	7	8	9	10		
200 l/h*	S	Max. lateral length (m)						
1.11-20	2%	150	161	176	180	190		
Uphill	1%	174	189	200	216	230		
Flat terrain	0	198	217	240	252	270		
Downhill	-1%	216	238	264	288	310		
	-2%	234	259	288	315	340		

Nominal	е	Distance between sprinklers (m)					
flow rate:	Slope	6	7	8	9	10	
250 l/h*	S	Max. lateral length (m)					
Uphill	2%	138	147	160	171	180	
Оргііі	1%	156	168	184	198	210	
Flat terrain	0	174	189	208	225	240	
Downhill	-1%	186	210	232	252	270	
	-2%	204	224	248	270	290	

Nominal	a	Distance between sprinklers (m)					
flow rate:	lope	6	7	8	9	10	
350 l/h*	SI	Max. lateral length (m)					
l labill	2%	120	126	136	144	150	
Uphill	1%	126	140	152	162	170	
Flat terrain	0	138	154	168	180	200	
Downhill	-1%	150	168	184	198	220	
	-2%	162	175	200	216	230	

Nominal	e	Distance between sprinklers (m)					
flow rate:	Slope	6	7	8	9	10	
450 l/h*	S	Max. lateral length (m)					
Uphill	2%	102	112	120	126	140	
Oprilli	1%	114	126	136	144	150	
Flat terrain	0	120	133	144	162	170	
Downhill	-1%	126	140	160	171	180	
DOWIIIIII	-2%	138	154	168	180	200	

Nominal	e	Distance between sprinklers (m)					
flow rate:	Slope	6	7	8	9	10	
550 l/h*	S	Max. lateral length (m)					
1.11-20	2%	96	105	112	117	130	
Uphill	1%	102	112	120	126	140	
Flat terrain	0	108	119	128	144	150	
Downhill	-1%	114	126	144	153	160	
	-2%	120	133	144	162	170	

Nominal	ē	Distance between sprinklers (m)					
flow rate:	Slope	6	7	8	9	10	
650 l/h*	S	Max. lateral length (m)					
Uphill	2%	84	91	104	108	110	
Oprilli	1%	90	98	112	117	120	
Flat terrain	0	96	105	120	126	130	
Downhill	-1%	102	112	120	135	140	
	-2%	108	119	128	144	150	

Nominal	e	Distance between sprinklers (m)					
flow rate:	Slope	6	7	8	9	10	
750 l/h*	S		Max. la	ateral len	gth (m)		
Uphill	2%	78	84	96	99	110	
Ophili	1%	84	91	96	108	110	
Flat terrain	0	90	98	104	117	120	
Downhill	-1%	90	105	112	126	130	
	-2%	96	105	120	126	140	

Max. lateral length - 10% flow variation (cont'd)

Inlet pressure: 3.0 bar

Lateral: PE 50 mm ID: 45.4 mm

Nominal	e	Di	stance be	tween sp	rinklers (m)
flow rate:	Slope	6	7	8	9	10
200 l/h*	S	Max. lateral length (m)				
Habill	2%	192	203	216	225	230
Uphill	1%	234	252	272	288	300
Flat terrain	0	282	308	336	360	390
Downhill	-1%	318	357	392	423	460
	-2%	348	392	432	477	520

Nominal	Ð	Di	Distance between sprinklers (m)					
flow rate:	do	6	7	8	9	10		
250 l/h*	S	Max. lateral length (m)						
Uphill	2%	174	189	200	207	220		
Оргііі	1%	210	224	240	261	270		
Flat terrain	0	246	273	296	315	340		
Downhill	-1%	276	308	336	369	400		
	-2%	300	336	376	405	440		

Nominal	9	Di	Distance between sprinklers (m)				
flow rate:	lope	6	7	8	9	10	
350 l/h*	S						
Llabill	2%	150	161	176	180	190	
Uphill	1%	174	189	208	216	230	
Flat terrain	0	198	217	240	261	280	
Downhill	-1%	222	245	272	297	320	
	-2%	234	266	296	324	350	

Nominal	Э	Distance between sprinklers (m)					
flow rate:	Slope	6	7	8	9	10	
450 l/h*	S	Max. lateral length (m)					
Linhill	2%	138	147	160	171	180	
Uphill	1%	156	168	184	189	210	
Flat terrain	0	174	189	208	225	240	
Downhill	-1%	186	210	232	252	270	
	-2%	198	224	248	270	290	

Nominal	e	Di	Distance between sprinklers (m)					
flow rate:	Slope	6	7	8	9	10		
550 l/h*	S	Max. lateral length (m)						
Llabill	2%	126	133	144	153	160		
Uphill	1%	138	154	168	180	190		
Flat terrain	0	156	168	184	198	210		
Downhill	-1%	168	182	200	216	240		
	-2%	174	196	216	234	260		

Nominal	е	Distance between sprinklers (m)					
flow rate:	Slope	6	7	8	9	10	
650 l/h*	S		Max. I	ateral len	gth (m)		
Uphill	2%	114	126	136	144	150	
Оргііі	1%	126	133	144	162	170	
Flat terrain	0	138	147	160	180	190	
Downhill	-1%	144	161	176	189	210	
	-2%	156	168	192	207	220	

Nominal	e	Di	stance be	tween sp	rinklers (m)
flow rate:	Slope	6	7	8	9	10
750 l/h*	S		Max. la	ateral len	gth (m)	
Uphill	2%	108	112	120	135	140
Ophili	1%	114	126	136	144	160
Flat terrain	0	126	140	152	162	170
Downhill	-1%	132	147	160	171	190
DOWITIIII	-2%	138	154	168	189	200

^{*}Nominal flow rate at 2.3 bar working pressure.

Lateral: FlexNet™ 2" ID: 50.4 mm

Nominal	e	Di	stance be	tween sp	rinklers (m)
flow rate:	Slope	6	7	8	9	10
200 l/h*	S		Max. la	ateral len	gth (m)	
l labill	2%	210	224	232	243	250
Uphill	1%	264	287	304	324	340
Flat terrain	0	336	371	400	432	460
Downhill	-1%	390	434	480	522	560
	-2%	432	483	536	585	640

Nominal	e	Di	stance be	etween sp	rinklers (m)		
flow rate:	Slope	6	7	8	9	10		
250 l/h*	SI	Max. lateral length (m)						
Uphill	2%	198	210	216	225	230		
Оргііі	1%	240	259	280	297	310		
Flat terrain	0	294	322	352	378	410		
Downhill	-1%	336	378	416	450	490		
DOWNIIII	-2%	372	413	464	504	550		

Nominal	a	Di	stance be	tween sn	rinklers (m)
flow rate:	lope	6	7	8	9	10
350 l/h*	SI		Max. la	ateral len	gth (m)	
Habill	2%	174	182	192	207	210
Uphill	1%	204	224	240	252	270
Flat terrain	0	240	259	288	306	330
Downhill	-1%	264	294	328	360	380
	-2%	288	322	360	396	430

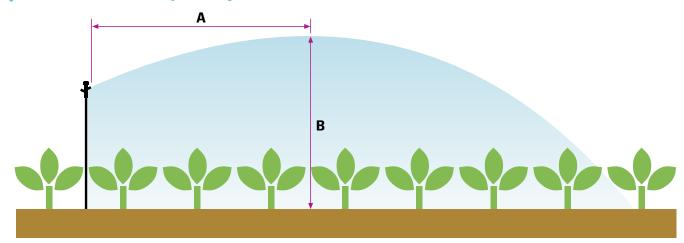
Nominal a		Distance between sprinklers (m)				
flow rate:	Slope	6	7	8	9	10
450 l/h*	S		Max. la	ateral len	gth (m)	
Uphill	2%	156	168	176	189	200
Oprilli	1%	180	196	208	225	240
Flat terrain	0	204	224	248	270	280
Downhill	-1%	228	252	280	297	320
DOWIIIIII	-2%	246	273	304	333	360

Nominal	e	Distance between sprinklers (m)					
flow rate:	Slope	6	7	8	9	10	
550 l/h*	S	Max. lateral length (m)					
Llabill	2%	144	154	168	171	180	
Uphill	1%	162	175	192	207	220	
Flat terrain	0	180	203	216	234	250	
Downhill	-1%	198	224	248	270	290	
DOWNIN	-2%	216	238	264	288	310	

Nominal	9	Di	stance be	etween sp	rinklers (m)
flow rate:	Slope	6	7	8	9	10
650 l/h*	S		Max. la	ateral len	gth (m)	
I I a la i II	2%	132	140	152	162	170
Uphill	1%	144	161	168	180	190
Flat terrain	0	162	175	192	207	220
Downhill	-1%	174	196	216	234	250
DOWILLIII	-2%	186	210	232	252	270

9	Di	stance be	etween sp	rinklers (ı	m)
5	6	7	8	9	10
S		Max. I	ateral len	gth (m)	
2%	120	133	144	153	160
1%	132	147	160	171	180
0	150	161	176	189	210
-1%	156	175	192	207	230
-2%	168	189	208	225	240
	1% 0 -1%	2% 120 1% 132 0 150 -1% 156	6 7 Max. Ia 2% 120 133 1% 132 147 0 150 161 -1% 156 175	6 7 8 Max. lateral len 2% 120 133 144 1% 132 147 160 0 150 161 176 -1% 156 175 192	2% 120 133 144 153 1% 132 147 160 171 0 150 161 176 189 -1% 156 175 192 207

Sprinkler water trajectory



A. Distance - Distance of max. trajectory height from sprinkler nozzle.

B. height - Elevation of max. trajectory height above ground.

Trajectory height above sprinkler nozzle

The maximum trajectory height above the sprinkler nozzle is relevant in the following cases:

- When sprinklers are used under the canopy to prevent wetting the foliage.
- When sprinklers are used in a net-house or inside a roofed structure such as a glasshouse, to prevent wetting the net or the ceiling.

rate*	Nozzle size	Color	MegaNet™ 15D Water trajectory Pin color code:	y angle: 15 degrees	MegaNet™ 24D Water trajectory angle: 24 degrees Pin color code: Black		
(I/h)	(mm)	code	Height (m)	Distance from head (m)	Height (m)	Distance from head (m)	
200	1.85	Yellow					
250	2.06	Purple	1.00	4.75	1.42	4.88	
350	2.44	Green					
450	2.79	Blue					
550	3.08	Brown	1.11	5.13	1.61	5.47	
650	3.37	Orange	1.11	0.13	1.01	0.47	
750	3.68	Red					

^{*} Nominal flow rate at 2.3 bar working pressure.

Head loss in riser tube

Riser tube: **OD 12.0 mm**, ID 9.0 mm

Flow	Riser tube length (m)
rate*	1.2
(I/h)	Head loss (bar)
200	0.017
250	0.025
350	0.045
450	0.070
550	0.100
650	0.134
750	0.172

Riser tube: **OD ½"**, ID 15.0 mm

Flow	Riser tube length (m)					
rate*	0.4	0.8	1.2			
(I/h)	Hea	bar)				
200	0.000	0.001	0.001			
250	0.001	0.001	0.002			
350	0.001	0.003	0.004			
450	0.002	0.004	0.006			
550	0.003	0.006	0.009			
650	0.004	0.008	0.012			
750	0.005	0.010	0.015			

Riser tube: OD ¾", ID 20.5 mm

Flow	Riser	Riser tube length (m)			
rate*	0.4	0.8	1.2		
(I/h)	Head loss (bar)				
200	0.000	0.000	0.000		
250	0.000	0.000	0.000		
350	0.000	0.001	0.001		
450	0.000	0.001	0.001		
550	0.001	0.001	0.002		
650	0.001	0.002	0.003		
750	0.001	0.002	0.003		

INSTALLATION

Introduction



Assembly must be done gently. Do not overtighten or use excessive force.

Tools required

- 20 mm spanner
- 30 mm spanner

Various installation configurations

Netafim[™] sprinklers can be installed at a convenient height in different configurations, to suit the needs of various crops and field conditions.

Among the various installation options:

- Mega Stand™ a ½" diameter robust and durable modular sprinkler stand suitable for a variety of agriculture and mining irrigation applications.
- IMP SPR stand™ a ½" diameter stand, satisfactorily used by farmers all over the globe for many years. It became a classic in open field and orchard irrigation due to its durability, simplicity and versatility. It can accommodate any type of 1/2" sprinkler.
- Solid set Netafim[™] offers a comprehensive range of sockets and reducer couplings dedicated to the proper connection of sprinklers to solid-set riser pipes (PVC or other rigid pipes). Usage of these accessories ensures appropriate, safe operation and longevity of the sprinklers.

See the installation manual for each one of the above installation options at http://www.netafim.com/irrigation-products-technical-materials

To assure proper operation of the sprinkler, a simple inspection and maintenance procedure should be carried out regularly.

Rinsing the filter

Frequency: Before the beginning of each growing season or in case one the following symptoms occurs:

- The sprinkler doesn't emit water.
- The flow of water emitted is low.

Action:

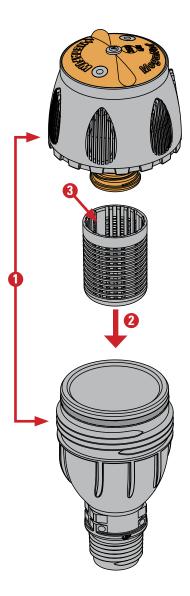
- 1. Open the sprinkler by unscrewing the upper body of the sprinkler from its base.
- 2. Detach the filter by pulling it down.
- **3.** Clean the filter from the inside with a water jet or pressurized air.
- 4. Put the filter back in place.



CAUTION

Never operate the sprinkler without the filter. Failure to comply with this instruction will clog the sprinkler, and may damage it and void the warranty.

5. Reassemble the sprinkler.



Checking the turbine and the cover

Frequency: Before the beginning of each growing season

Action:

- **1.** Open the sprinkler by unscrewing the upper body of the sprinkler from its base.
- 2. Detach the filter by pulling it down.

3. Remove the pin by pulling it up with your fingernail or with a small screwdriver.



CAUTION

Be sure not to lose the pin. It is esential to the operation of the sprinkler. Aside from indicating the sprinkler trajectory angle it also serves to hold the cover and the turbine in place.

- **4.** Push the sprinkler's top mechanism up and hold it.
- **5.** Remove the colored cover by pulling it up.
- **6.** Remove the turbine by pulling it up.
- **7.** Visually check the 2 black tabs on the underside of the colored cover for wear.
- **8.** Visually check the tab on the top side of the turbine for wear.

If any of them is worn, replace both parts - the cover and the turbine.

- 9. Put the filter back in place.
- 10. Reassemble the sprinkler.



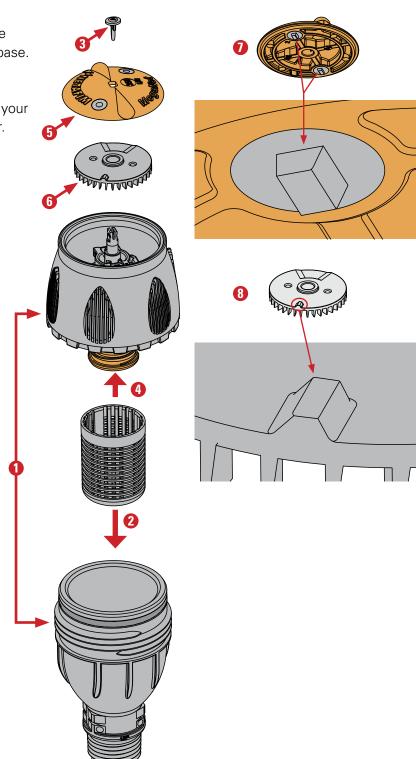
CAUTION

Do not forget to put the pin back in place. It is esential to the operation of the sprinkler.



NOTE

It is recommended to replace the cover and the turbine every 2000 irrigation hours.



Cleaning the nozzle



CAUTION

Never operate the sprinkler without the filter.

Failure to comply with this instruction will clog the sprinkler, and may damage it and void the warranty.

If the above instruction is followed, the sprinkler nozzle should never get clogged.

In the event that the sprinkler has been operated without the filter in place, it is possible to clean the nozzle.

Follow the instructions below:



NOTE

The drawings below present the sprinkler's upper body without the pin, the colored cover and the turbine, to show the actions described. In practice, these 3 parts are connected to the top of the diverter throughout the dismantling and reassembling process, and do not interfere with it.



NOTE

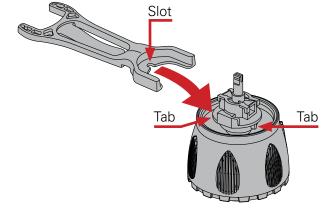
2 service keys are supplied with each box of MegaNet™ sprinklers. Additional service keys can be ordered separately (Cat. No. 63620-004500).

- 1. Open the sprinkler by unscrewing the upper body of the sprinkler from its base (see page 21, step 1).
- 2. Push the sprinkler's top mechanism up and hold it (see page 21, step 4).
- **3.** Insert the slotted end of a service key underneath the diverter holder.

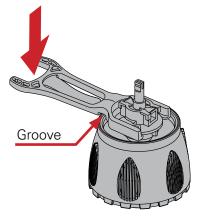


ATTENTION

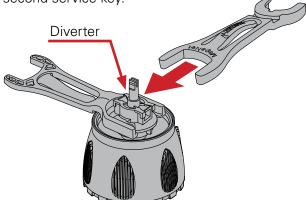
There are 2 opposing tabs on the underside of the diverter holder. Make sure that the slot of the service key holds one of the tabs.



4. Push the far end of the service key down to the horizontal position with the groove underneath the key resting on the rim of the sprinkler's upper body. In this position, the service key should hold in place.



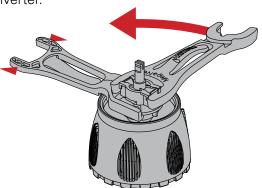
5. Release the diverter using the other end of the second service key.



6. Clean the nozzle from the top with a water jet or pressurized air.



Hold the first service key in place and turn the second service key counterclockwise to release the diverter.



7. To reassemble the sprinkler perform the steps above in reverse order. When putting the diverter back in place, turn the key clockwise until the diverter snaps in place. A click should be heard.



CAUTION

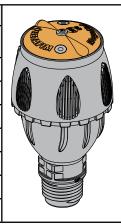
When reassembling the sprinkler, do not forget to put the filter in place to avoid clogging the nozzle in the future.

PARTS AND COMPLEMENTARY PRODUCTS

Parts

MegaNet™ - 1/2" threaded inlet connector, head only

Flow	Nozzle		Catalog number	
rate* (I/h)	size (mm)	Color code	24D	15D
200	1.85	Yellow	63600-001700	63600-004900
250	2.06	Purple	63600-001750	63600-004950
350	2.44	Green	63600-001000	63600-005000
450	2.79	Blue	63600-002000	63600-006000
550	3.08	Brown	63600-003000	63600-007000
650	3.37	Orange	63600-004000	63600-008000
750	3.68	Red	63600-004500	63600-009000



Packaging data

MegaNet™	Units p/box	Box size (cm)	Box weight (Kg)	Boxes p/pallet	Total units p/pallet	Pallet weight (Kg)
Head only	200	18 x 34 x 79	11.0	20	4000	232

MegaNet™ cover

Flow rate* (I/h)	200	250	350	450	550	650	750
Color	Yellow	Purple	Green	Blue	Brown	Orange	Red
Catalog number	63620- 004850	63620- 004900	63620- 005000	63620- 005100	63620- 005200	63620- 005300	63620- 005400

^{*} Nominal flow rate at 2.3 bar working pressure.

MegaNet[™] parts

Part description	Catalog number	
Pin for 24D (black) 🚏	63620-001500	
Pin for 15D (grey)	63620-001600	

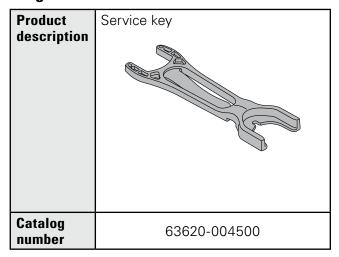
Part des	scription	Catalog number
Filter		63620-004400

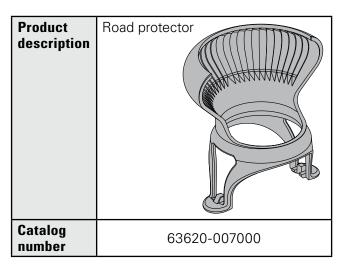
Part description	Catalog number
Turbine (black) for 24D models with flow rates 200-350 l/h	63620-002000
Turbine (grey) for all 15D models and 24D models with flow rates 450-750 l/h	63620-002100

^{*} Nominal flow rate at 2.3 bar working pressure.

PARTS AND COMPLEMENTARY PRODUCTS

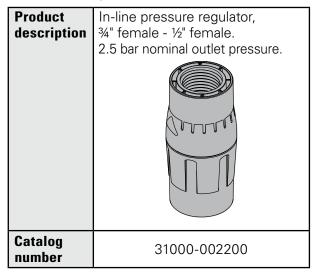
MegaNet™ accessories





Complementary products

Pressure regulator



PARTS AND COMPLEMENTARY PRODUCTS

Models for specific uses, head only

Special model for cement connection (blue base)

Pro	Product description		20 mm ISO inlet connector		1/2" ASTM inlet connector	
Flow rate*	Nozzle size	Color	Catalo	og number	Catalog number	
(I/h)	(mm)	code	24D	15D	24D	15D
200	1.85	Yellow	**	**	**	**
250	2.06	Purple	**	**	**	* *
350	2.44	44 Green **		**	**	**
450	2.79	Blue	** 63600-010100		**	63600-010500
550	3.08	Brown	** 63600-010200		**	63600-010600
650	3.37	Orange	**	**	**	**
750	3.68	Red	**	**	**	**

Special model with anti-drain valve

Product description			1/2" threaded inlet co	onnector + AD	
Flow rate*	Nozzle size	Color	Catalog		
(I/h)	(mm)	code	24D	15D	
200	1.85	Yellow	63600-001720	* *	
250	2.06	Purple	**	**	
350	2.44	Green	63600-001900	* *	
450	2.79	Blue	63600-002010	63600-005010	
550	3.08	Brown	63600-003010	63600-006010	
650	3.37	Orange	63600-004010	* *	
750	3.68	Red	63600-004510	* *	

^{*} Nominal flow rate at 2.3 bar working pressure.

^{**}Missing catalog numbers available upon request.

APPENDIX 1: SPECIAL APPLICATIONS

Special model for cement connection (blue base)

Can be cemented to the end of a PVC riser tube in solid set installations. Effective for theft prevention.

2 types are available:

- ISO C 20 mm
- ASTM C 1/2"

Cementing to a ½" (or 20 mm) PVC pipe



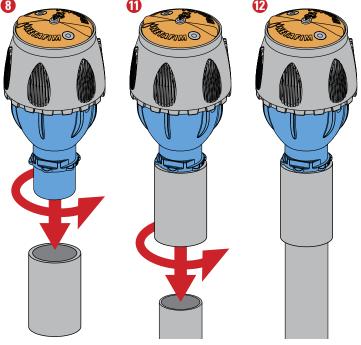
NOTE

Read and understand all the instructions before performing this procedure.

- 1. Use WELD-ON 717 PVC cement and P68 primer or their equivalents.
- **2.** Trim the application brush to the desired shape.
- 3. Dip the application brush in the P68 primer. Squeeze the brush to remove excess solvent.
- **4.** Using the brush, clean the inner surface of the socket with the primer.
- **5.** Using the brush, clean the outer surface of the sprinkler housing with the primer.

6. Wait 60 seconds for the primer to dry befor applying the cement and then neatly apply the cement to the outer surface of the sprinkler housing.

- **7.** Apply the cement to the cylindrical part of the sprinkler housing below the circular rib.
- **8.** Insert the sprinkler housing into the socket in a rotational motion (1/4 turn) to spread the cement over the entire surface. Make sure the sprinkler is fully inserted into the socket.
- **9.** Hold the sprinkler and socket together for about 30 seconds to make sure they are firmly connected.
- **10.** Remove any excess cement with a dry cloth.
- **11.** Repeat all the steps above when cementing the socket to the riser tube.
- **12.** Wait at least 6 hours for the cement to fully solidify before running water through the sprinkler.



APPENDIX 1: SPECIAL APPLICATIONS

Special model with anti-drain valve

For use in slopped fields in order to prevent drainage of the distribution pipe and possible over-saturation of the soil, unwanted puddles or landslide.

Features and benefits

- Automatic end-of-irrigation shut-off valve.
- Prevents water backflow or drainage of the system into low areas.
- Eliminates the need for system water refill at the beginning of the next irrigation cycle.
- Shut-off pressure: 0.6 bar

Installation

The installation process of this model is similar to that of the regular model (see pages 10-19).

Screwing and tightening of the sprinkler can be done by hand. The use of a 20 mm spanner is not necessary.



Install a PRV at the sprinkler inlet when a 100% flow rate and distribution uniformity is required.

The presented model is suitable for an exit pressure of 2.5 bar. For other exit pressure values, contact your local Netafim™ representative.

Installation

The installation process of the sprinkler and PRV is similar to that of installation on solid set riser pipes (see page 12).

Screwing and tightening of the PRV should be done by hand.



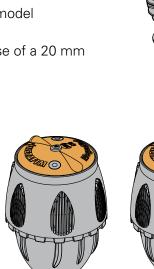
ATTENTION

Make sure the PRV is connected to the sprinkler with the arrow pointing towards the sprinkler (up).

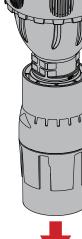


NOTE

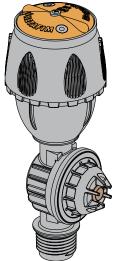
The PRV bottom thread is 34" female. To connect the PRV to a riser with a thread that is not 3/4" male, use an apropriate adapter/reducer from the vast selection offered by Netafim™ (see page 26 and at XXX).



Arrow







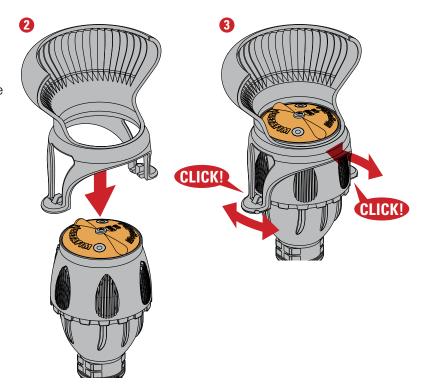
APPENDIX 1: SPECIAL APPLICATIONS

Road protector

To avoid wetting the roads around the field, Netafim™ offers a road protector to be used on the sprinklers at the boundaries of the field.

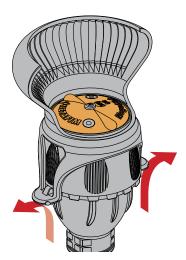
Installing the road protector

- 1. Place the road protector on top of the sprinkler with its back side facing the road you want to protect from water.
- 2. Push the road protector down onto the sprinkler head. Clicks should be heard.
- 3. Slightly rotate the road protector until more clicks are heard.



Removing the road protector

1. Push the 2 ears outwards and up to release the road protector from the sprinkler.



WARRANTY

Netafim™ warrants all the components of the MegaNet™ sprinkler to be free of substantial defects in material and workmanship for a period of 1 (one) year from the date of purchase.

If a defect is discovered during the applicable warranty period, Netafim™ will repair or replace, at its discretion, the product or the defective part.

This warranty does not extend to repairs or replacements of a MegaNet™ sprinkler or part resulting from misuse, negligence, alteration, force majeure, lightning, improper installation or improper maintenance, including any maltreatment of the MegaNet™ sprinkler or any part of the irrigation systems.

If a defect arises in your Netafim™ product during the warranty period, contact your Netafim™ supplier.

Limited warranty

This warranty is subject to the terms and conditions contained in Netafim's official warranty statement in force at the time of application.

For the full text of Netafim's official warranty statement, go to:

http://www.netafim.com/irrigation-products-technical-materials