



2019

Turf irrigation catalog

**irritec**<sup>®</sup>



*don't wait* for rain<sup>®</sup>

*«We want to make life easier for those who treat the plants, for work and for passion.  
We aim to ensure that every drop is spent as well as possible, minimizing the  
ecological footprint, resources, waste.»*

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MULTIBAR C					
Ref. black	Ref. brown	Ø mm	flow rate	spacing	reel
FAMA440302D	FAMA440302DM	16	2,1 lph	30 cm	25 m
FAMA440332D	FAMA440332DM	16	2,1 lph	33 cm	25 m
FAMA440334D	FAMA440334DM	16	3,8 lph	33 cm	25 m
FAMA440402D	FAMA440402DM	16	2,1 lph	40 cm	25 m
FAMA440302E	FAMA440302EM	16	2,1 lph	30 cm	50 m
FAMA440332E	FAMA440332EM	16	2,1 lph	33 cm	50 m
FAMA440334E	FAMA440334EM	16	3,8 lph	33 cm	50 m
FAMA440402E	FAMA440402EM	16	2,1 lph	40 cm	50 m
FAMA440302F	FAMA440302FM	16	2,1 lph	30 cm	100 m
FAMA440332F	FAMA440332FM	16	2,1 lph	33 cm	100 m
FAMA440334F	FAMA440334FM	16	3,8 lph	33 cm	100 m
FAMA440402F	FAMA440402FM	16	2,1 lph	40 cm	100 m

The Multibar C pressure compensating dripline with cylindrical dripper pre-inserted during the extrusion phase is particularly indicated to irrigate large flowerbeds, very sloped areas, hedges and trees in general.

The simple operation reduces maintenance to a minimum; furthermore, the low visual impact (often used under mulching) means it won't be vandalised. The localised distribution of the drops avoids streaming water, a potential cause of damage to vehicles and pedestrians. The pressure compensating dripper with its silicone membrane ensures a constant flow rate even when pressure varies, and is equipped with a self-cleaning system that lasts over time. The Irritec quality system, ISO 9001, using the control processes during all the production phases, guarantees a high quality standard product. The Multibar C dripline is IIP certified and meets the International standard ISO 9261.

**Functions and technical characteristics**

- working pressure from 0.5 to 4.0 bar
- dripper nominal flow rate 2.1 and 3.8 litres/hour
- external diameter of the pipe 16 mm, wall thickness 1.1 mm
- recommended filtering 155 mesh
- the dripper pressure compensating system is guaranteed by a silicone membrane which ensures the flow rate constant on varying the working pressure
- 35 mm cylindrical dripper with incorporated filter
- available in black or brown
- reels from: 25 m - 50 m - 100 m

**Recommended length in metres according to working pressure**

Flow rate lph	MULTIBAR C 16 mm							
	2,10				3,80			
Pres. bar	1,0	2,0	3,0	4,0	1,0	2,0	3,0	4,0
Spac. 30 - 33 cm	62	92	111	125	42	63	76	85
Spac. 40 cm	40	119	143	161	54	81	97	110

**Pressure - flow rate ratio**

Nominal diameter mm	Nominal flow rate lph	Pressure (bar)							
		0,5	1	1,5	2	2,5	3	3,5	4
16	2,10	2,05	2,12	2,12	2,10	2,10	2,09	2,08	2,06
	3,80	3,70	3,84	3,85	3,92	3,94	3,92	3,88	3,81



MULTIBAR F				
Ref.	Ø mm	flow rate	spacing	reel
FAPA350302D	16	2,1 lph	30 cm	25 m
FAPA350332D	16	2,1 lph	33 cm	25 m
FAPA350334D	16	3,8 lph	33 cm	25 m
FAPA350402D	16	2,1 lph	40 cm	25 m
FAPA350302E	16	2,1 lph	30 cm	50 m
FAPA350332E	16	2,1 lph	33 cm	50 m
FAPA350334E	16	3,8 lph	33 cm	50 m
FAPA350402E	16	2,1 lph	40 cm	50 m
FAPA350302F	16	2,1 lph	30 cm	100 m
FAPA350332F	16	2,1 lph	33 cm	100 m
FAPA350334F	16	3,8 lph	33 cm	100 m
FAPA350402F	16	2,1 lph	40 cm	100 m

The MULTIBAR F pressure compensating dripline with flat dripper pre-inserted during the extrusion phase is particularly indicated to irrigate very large flowerbeds, heavily sloped areas, hedges and trees in general.

The simple operation reduces maintenance to a minimum; furthermore, the low visual impact (often used under mulching) means it won't be vandalised. The localised distribution of the drops avoids streaming water, a potential cause of damage to vehicles and pedestrians. The pressure compensating dripper with its silicone membrane ensures a constant flow rate even when pressure varies, and is equipped with a self-cleaning system that lasts over time. The Irritec quality system, ISO 9001, using the control processes during all the production phases, guarantees a high quality standard product.

**Functions and technical characteristics**

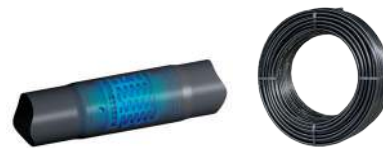
- working pressure from 0.5 to 3.0 bar
- dripper nominal flow rate 2.1 and 3.8 litres/hour
- external diameter of the pipe 16 mm, wall thickness 0.9 mm
- recommended filtering 155 mesh
- the dripper pressure compensating system is guaranteed by a silicone membrane which ensures the flow rate constant on varying the working pressure
- flat dripper with incorporated filter
- available in black, on request also brown
- reels from: 25 m - 50 m - 100 m

**Recommended length in metres according to working pressure**

Flow rate lph	MULTIBAR F 16 mm					
	2,10			3,80		
Pres. bar	1,0	2,0	3,0	1,0	2,0	3,0
Spac. 30 - 33 cm	67	99	119	46	68	82
Spac. 40 cm	86	127	152	59	87	104

**Pressure - flow rate ratio**

Nominal diameter mm	Nominal flow rate lph	Pressure (bar)					
		0,7	1	1,5	2	2,5	3
16	2,10	2,0	2,15	2,05	2,1	2,15	2,12
	3,80	3,7	3,8	3,78	3,85	3,9	3,9



TANDEM					
Ref. black	Ref. brown	Ø mm	flow rate	spacing	reel
FATA440202D	-	16	2,1 lph	20 cm	25 m
FATA440302D	FATA440302DM	16	2,1 lph	30 cm	25 m
FATA440332D	FATA440332DM	16	2,1 lph	33 cm	25 m
FATA440334D	FATA440334DM	16	4,0 lph	33 cm	25 m
FATA440402D	FATA440402DM	16	2,1 lph	40 cm	25 m
FATA440202E	-	16	2,1 lph	20 cm	50 m
FATA440302E	FATA440302EM	16	2,1 lph	30 cm	50 m
FATA440332E	FATA440332EM	16	2,1 lph	33 cm	50 m
FATA440334E	FATA440334EM	16	4,0 lph	33 cm	50 m
FATA440402E	FATA440402EM	16	2,1 lph	40 cm	50 m
FATA440202F	-	16	2,1 lph	20 cm	100 m
FATA440302F	FATA440302FM	16	2,1 lph	30 cm	100 m
FATA440332F	FATA440332FM	16	2,1 lph	33 cm	100 m
FATA440334F	FATA440334FM	16	4,0 lph	33 cm	100 m
FATA440402F	FATA440402FM	16	2,1 lph	40 cm	100 m

JUNIOR				
Ref.	Ø mm	flow rate	spacing	reel
FAJA440302D	16	2,1 lph	30 cm	25 m
FAJA440332D	16	2,1 lph	33 cm	25 m
FAJA440334D	16	3,6 lph	33 cm	25 m
FAJA440402D	16	2,1 lph	40 cm	25 m
FAJA440302E	16	2,1 lph	30 cm	50 m
FAJA440332E	16	2,1 lph	33 cm	50 m
FAJA440334E	16	3,6 lph	33 cm	50 m
FAJA440402E	16	2,1 lph	40 cm	50 m
FAJA440302F	16	2,1 lph	30 cm	100 m
FAJA440332F	16	2,1 lph	33 cm	100 m
FAJA440334F	16	3,6 lph	33 cm	100 m
FAJA440402F	16	2,1 lph	40 cm	100 m

The Tandem dripline with cylindrical dripper pre-inserted during the extrusion phase is particularly indicated to irrigate flowerbeds, hedges and trees in general. The simple operation reduces maintenance to a minimum; furthermore, the low visual impact (often used under mulching) means it won't be vandalised. The localised distribution of the drops avoids streaming water, a potential cause of damage to vehicles and pedestrians. The 70 mm dripper with turbulent flow labyrinth, though its particular design, reduces sedimentation to a minimum, ensuring a long-lasting product. The Irritec quality system, ISO 9001, using the control processes during all the production phases, guarantees a high quality standard product. The Tandem dripline is IIP certified and meets the International standard ISO 9261.

**Functions and technical characteristics**

- working pressure from 0.5 to 4.0 bar
- dripper nominal flow rate 2.1 and 4.0 litres/hour
- external diameter of the pipe 16 mm, wall thickness 1.1 mm
- recommended filtering: 2.1 lph 120 mesh - 4.0 lph 100 mesh
- turbulent flow dripper that reduces sedimentation limiting the risk of clogging
- 70 mm cylindrical dripper with incorporated filter
- available in black or brown
- reels from: 25 m - 50 m - 100 m

The Junior dripline with cylindrical dripper pre-inserted during the extrusion phase is particularly indicated to irrigate flowerbeds, hedges and trees in general. The simple operation reduces maintenance to a minimum; furthermore, the low visual impact (often used under mulching) means it won't be vandalised. The localised distribution of the drops avoids streaming water, a potential cause of damage to vehicles and pedestrians. The 35 mm dripper with turbulent flow labyrinth, through its particular design, reduces sedimentation to a minimum, ensuring a long-lasting product. The Irritec quality system, ISO 9001, using the control processes during all the production phases, guarantees a high quality standard product. The Junior dripline is IIP certified and meets the International standard ISO 9261.

**Functions and technical characteristics**

- working pressure from 0.5 to 4.0 bar
- dripper nominal flow rate 2.1 and 3.6 litres/hour
- external diameter of the pipe 16 mm, wall thickness 1.1 mm
- recommended filtering 120 mesh
- turbulent flow dripper that reduces sedimentation limiting the risk of clogging
- 35 mm cylindrical dripper with incorporated filter
- available in black, on request also brown
- reels from: 25 m - 50 m - 100 m

**Recommended lengths in metres, based on E.U.**

TANDEM 16 mm				
Flow rate lph	2,10		4,00	
E.U.%	90	85	90	85
Spac. 30 - 33 cm	75	93	51	63
Spac. 40 cm	94	116	64	79

**Recommended lengths in metres, based on E.U.**

JUNIOR 16 mm				
Flow rate lph	2,10		3,60	
E.U.%	90	85	90	85
Spac. 30 - 33 cm	91	112	64	79
Spac. 40 cm	110	136	78	96

**Pressure - flow rate ratio**

Nominal diameter mm	Nominal flow rate at 1 bar lph	Pressure (bar)				
		1	1,5	2	2,5	3
16	2,10	2,10	2,60	3,00	3,40	3,70
	4,00	4,05	4,90	5,70	6,30	6,90

**Pressure - flow rate ratio**

Nominal diameter mm	Flow-rate nominale lph	Pressure (bar)					
		0,5	1	1,5	2	2,5	3
16	2,10	1,42	1,98	2,47	2,95	3,30	3,63
	3,60	2,55	3,51	4,27	4,92	5,50	6,05



D5				
Ref.	Ø mm	flow rate	spacing	reel
Fafa350302D	16	2,1 lph	30 cm	25 m
Fafa350332D	16	2,1 lph	33 cm	25 m
Fafa350402D	16	2,1 lph	40 cm	25 m
Fafa350302E	16	2,1 lph	30 cm	50 m
Fafa350332E	16	2,1 lph	33 cm	50 m
Fafa350402E	16	2,1 lph	40 cm	50 m
Fafa350302F	16	2,1 lph	30 cm	100 m
Fafa350332F	16	2,1 lph	33 cm	100 m
Fafa350402F	16	2,1 lph	40 cm	100 m

The D5 dripline with flat dripper pre-inserted during the extrusion phase is particularly indicated to irrigate flowerbeds, hedges and trees in general. The simple operation reduces maintenance to a minimum; furthermore, the low visual impact (often used under mulching) means it won't be vandalised. The localised distribution of the drops avoids streaming water, a potential cause of damage to vehicles and pedestrians. The 50 mm dripper with turbulent flow labyrinth, through its particular design, reduces sedimentation to a minimum, ensuring a long-lasting product. The Irritec quality system, ISO 9001, using the control processes during all the production phases, guarantees a high quality standard product. The D5 dripline is IIP certified and meets the International standard ISO 9261.

**Functions and technical characteristics**

- working pressure from 0.5 to 3.0 bar
- dripper nominal flow rate 2.1 litres/hour
- external diameter of the pipe 16 mm, wall thickness 0.9 mm
- recommended filtering 120 mesh
- turbulent flow dripper that reduces sedimentation limiting the risk of clogging
- 50 mm flat dripper with incorporated filter
- available in black, on request also brown
- reels from: 25 m – 50 m – 100 m
- the integrated inlet filter avoids clogging occurring

**Recommended length in metres according to working pressure**

D5 16 mm			
Flow rate lph	2,10		
E.U. %	90		85
Spac. 30 - 33 cm	91		113
Spac. 40 cm	110		136

**Pressure - flow rate ratio**

Nominal flow rate	Pressure (bar)					
lph a 1,0 bar / 14,5 psi	0,5	0,7	1,0	1,2	1,5	2,0
2,10	1,50	1,75	2,09	2,34	2,68	3,10



MINIDRIP				
Ref.	Ø mm	flow rate	spacing	reel
FALC300151B	6,5	1,5 lph	15 cm	15 m
FALC300301B	6,5	1,5 lph	30 cm	15 m

The MiniDrip with cylindrical dripper pre-inserted during the extrusion phase is particularly indicated to irrigate small flowerbeds, flowerpots, hedges and trees in general. The reduced dimensions (only 6 mm diameter) and the high flexibility allows their use also in small spaces. Its simple operation reduces maintenance to a minimum. The localised distribution of the drops avoids streaming water, a potential cause of damage to vehicles and pedestrians. The dripper with turbulent flow labyrinth, through its particular design, reduces sedimentation to a minimum, ensuring a long-lasting product. The Irritec quality system, ISO 9001, using the control processes during all the production phases, guarantees a high quality standard product.

**Functions and technical characteristics**

- working pressure from 0.2 to 2.5 bar
- dripper nominal flow rate 1.5 litres/hour
- external pipe diameter 6.6 mm
- pipe wall thickness 0.8 mm
- length of line up to 24 metres
- recommended filtering 120 mesh
- Minidrip™ dripline is equipped with turbulent flow labyrinth capable of reducing sedimentation build-up inside and reducing the risk of clogging
- the dripper is equipped with an incorporated double inlet filter that contributes to reducing the risk of clogging
- available in black, on request also brown
- 15 m reels

**Recommended length in metres according to working pressure**

MINIDRIP 6 mm				
Pi bar	Qi lph	E.U.%	Spacing cm	
1	1,4	95	15	20
		85	18	24

**Pressure - flow rate ratio**

bar	0,2	0,4	0,6	0,8	1	1,2	1,4	1,6
lph	0,6	0,9	1,1	1,3	1,4	1,6	1,7	1,8





VPN			
Ref.	dimensions	connections	voltage
IAVPN050F14	1/2"	F/F	24 Vac
IAVPN075F14	3/4"	F/F	24 Vac
IAVPN075M14	3/4"	M/M	24 Vac
IAVPN100M14	1"	M/M	24 Vac
IAVPN100F14	1"	F/F	24 Vac
IAVPN120F14	1 1/4"	F/F	24 Vac
IAVPN150F14	1 1/2"	F/F	24 Vac
IAVPN200F14	2"	F/F	24 Vac
IAVPN300M14	3"	M/M	24 Vac
IAVPN100M19	1"	M/M	9 VDC latch
IAVPN100F19	1"	F/F	9 VDC latch

The VPN series valves for professional irrigation are suitable for use in vast agricultural lands or sports grounds and for use on terraces or verandas, thanks to the highly reduced dimensions of each model. The materials used guarantee efficiency, resistance and reliability.

**Characteristics**

- Polyamide valve body - 30% fibre glass
- NBR membrane (Buna-N)
- With flow regulator
- Working pressure 0.5 - 10 bar
- Fluid temperature max 60°C
- Installation in any position
- Manual opening 45° rotation of solenoid valve
- Sealed solenoid valve IP 67
- Inrush/fully operational absorption 330-210 mA
- Stainless steel core
- WRAS approval

VBN			
Ref.	dimensions	connections	voltage
IAVBN075F14	3/4"	F/F OTTONE	24 Vac
IAVBN100F14	1"	F/F OTTONE	24 Vac
IAVBN120F14	1 1/4"	F/F OTTONE	24 Vac
IAVBN150F14	1 1/2"	F/F OTTONE	24 Vac
IAVBN200F14	2"	F/F OTTONE	24 Vac
IAVBN075F19	3/4"	F/F OTTONE	9 VDC latch
IAVBN100F19	1"	F/F OTTONE	9 VDC latch
IAVBN120F19	1 1/4"	F/F OTTONE	9 VDC latch
IAVBN150F19	1 1/2"	F/F OTTONE	9 VDC latch
IAVBN200F19	2"	F/F OTTONE	9 VDC latch

The VBN series valves are available with composite inlet and outlet **brass threads**. The o-ring seal and the reinforced brass threads ensure the product can be used in irrigation systems where the collectors for the solenoid valves and pipes are made of metal. Brass, in fact, avoids the threading being damaged.

**Characteristics**

- Polyamide valve body - 30% fibre glass
- Brass reinforced threads
- NBR membrane (Buna-N)
- With flow regulator
- Working pressure 0.5 - 10 bar
- Fluid temperature max 60°C
- Installation in any position
- Manual opening 45° rotation of solenoid valve
- Sealed solenoid valve IP 67
- Inrush/fully operational absorption 330-210 mA
- Stainless steel core
- WRAS approval

**Dimensions**

Connection	Height	Height	Width
-	mm	mm	mm
1/2" F	110	114	68
3/4" F	110	114	68
3/4" M	110	114	68
1" F	128	128	90
1" M	110	100	68
1 1/4" F	128	128	90
1 1/2" F	145	137	90
2" F	180	165	120
3" M	180	170	120

**Load loss in bar**

Flow rate		Connection									
m³/h	l/m	3/4" M	1" M	3/4" M	1" F	1" M	1 1/4" F	1 1/2" F	2" F	3" M	
1	16,7	-	-	-	-	-	-	-	-	-	
2	33,3	0,17	-	0,17	-	-	-	-	-	-	
3	50,0	0,21	0,17	0,21	-	0,17	0,10	-	-	-	
4	66,7	0,31	0,21	0,31	0,11	0,21	0,13	-	-	-	
5	83,3	0,43	0,31	0,43	0,13	0,31	0,16	-	-	-	
6	100,0	0,60	0,43	0,60	0,16	0,43	0,20	-	-	-	
7	116,7	0,74	0,60	0,74	0,22	0,60	0,23	0,11	0,10	-	
8	133,3	0,93	0,74	0,93	0,25	0,74	0,31	0,13	0,11	-	
9	150,0	1,08	0,93	1,08	0,32	0,93	0,35	0,15	0,12	0,10	
11	183,3	-	1,08	-	0,50	1,08	0,52	0,21	0,14	0,12	
13	216,7	-	-	-	0,71	-	0,73	0,28	0,16	0,14	
15	250,0	-	-	-	1,01	-	0,94	0,39	0,20	0,16	
18	300,0	-	-	-	-	-	-	0,61	0,25	0,20	
22	366,7	-	-	-	-	-	-	0,92	0,31	0,23	
28	466,7	-	-	-	-	-	-	-	0,42	0,30	
36	600,0	-	-	-	-	-	-	-	0,72	0,42	
44	733,3	-	-	-	-	-	-	-	-	0,63	
50	833,3	-	-	-	-	-	-	-	-	0,82	



VDC latch solenoid valve compatible with most programmers with 9 volt output; for connections and clarifications, contact the Irritec technical office



### VLN

Ref.	dimensions	connections	voltage
IAVLN100F14	1"	F/F	24 Vac

VLN LOW pressure series, working pressure valve min. 0.05 bar (= water column 50 cm.) and max. 1 bar (= water column 10 m.) Suitable for draining cisterns in irrigation systems where rainwater recovery is planned. Also suitable for draining water in tanks containing potted plants, to drain toilets, to automate drip systems with wall dripping from containers.

#### Characteristics

- Polyamide valve body - 30% fibre glass
- NBR membrane (Buna-N)
- With flow regulator
- Working pressure 0.05 - 1 bar
- Fluid temperature max 60°C
- Installation in any position
- Manual opening 45° rotation of solenoid valve
- Sealed solenoid valve IP 67
- inrush/fully operational absorption 330-210 mA
- Stainless steel core
- WRAS approval
- Dimensions: H 128 mm, Wide 90 mm, Length 128 mm.



### VSN

Ref.	dimensions	connections	voltage
IAVSN050M14	1/2"	M/M	24 Vac
IAVSN050M16	1/2"	M/M	6-9 VDC latch

Compact VSN series, guaranteed high reliability thanks to the robust and simple appearance. Suitable for irrigation systems for terraces, green walls or for drip systems in vegetable plots.

#### Characteristics

- Polyamide valve body - 30% fibre glass
- NBR membrane (Buna-N)
- Working pressure 0.2 - 10 bar
- Fluid temperature max 60°C
- Installation in any position.
- Flow rate min. 2 - max. 30 l/min
- Sealed solenoid valve IP 67
- inrush/fully operational absorption 330-210 mA
- Stainless steel core
- WRAS approval
- Dimensions: H 65 mm, Wide 40 mm, Length 45 mm.

#### Load loss in bar

Flow rate	Couplings
l/m	3/4" M
1	-
3	0,09
5	0,13
7	0,18
10	0,25
15	0,49
20	0,86
25	1,1
30	1,38

VDC latch solenoid valve compatible with most programmers with 9 volt output; for connections and clarifications, contact the Irritec technical office





HRV			
Ref.	dimensions	connections	voltage
INMHRV100BSP	1"	F/F	24 Vac

**Technical characteristics**

- Valve body in PVC
- Flow regulator
- Working pressure 1 - 10 bar
- Sealed solenoid valve IP 67
- inrush/fully operational absorption 330-210 mA
- Fluid temperature max 60°C

Dimensions	1"
Height (mm)	138
Width (mm)	102
Height (mm)	108

**Load loss in bar**

Flow m <sup>3</sup> /h	1"
0,6	0,1
1	0,2
2	0,25
3	0,3
4	0,35
5	0,4
6	0,45
7	0,65
8	0,85
9	1,0



HRB			
Ref.	dimensions	connections	voltage
INMHRB150FBFC	1/2"	F/F	24 Vac
INMHRB200FBFC	2"	F/F	24 Vac

**Technical characteristics**

- Valve body in nylon reinforced with fibre glass
- Flow regulator
- Working pressure 1.3 - 13.8 bar
- Sealed solenoid valve IP 67
- inrush/fully operational absorption 330-210 mA
- Fluid temperature max 60°C

Dimensions	1 1/2"	2"
Height (mm)	203	203
Width (mm)	152	152
Height (mm)	152	152

**Load loss in bar**

Flow m <sup>3</sup> /h	1 1/2"	2"
0,6	-	-
1	-	-
2	-	-
3	-	-
4	-	-
5	0,27	-
6	0,26	-
7	0,25	-
8	0,25	-
9	0,24	-
10	0,24	-
12	0,26	0,33
14	0,29	0,32
16	0,34	0,31
22	0,62	0,34
28	0,97	0,55
43	1,46	0,83
40	-	1,09
45	-	1,32





G75S			
Ref.	dimensions	voltage	flow regulator
IBG75S50151	3/4"	24 Vac	yes
IBG75S50161	3/4"	24 Vac	no
IBG75S60151	1"	24 Vac	yes
IBG75S60161	1"	24 Vac	no
IBG75S70151	1 1/2"	24 Vac	yes
IBG75S80151	2"	24 Vac	yes
IBG75S60152	1"	9 VDC latch	yes
IBG75S70152	1 1/2"	9 VDC latch	yes
IBG75S80152	2"	9 VDC latch	yes

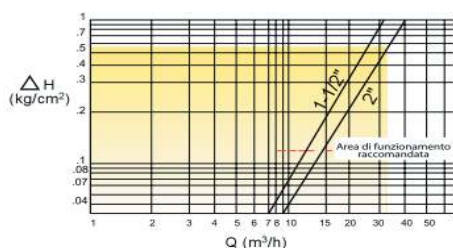
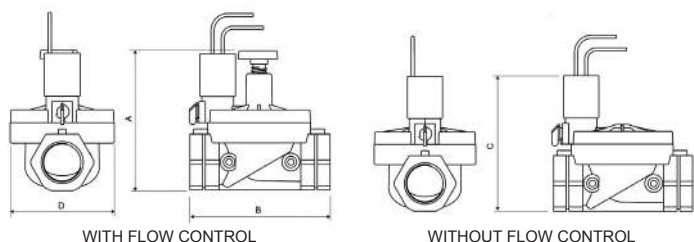
G75S series valves for professional irrigation provide high hydraulic performance in fluid control. They have a very robust appearance thanks to the reinforced nylon construction, guaranteeing reliability and safety.

**Characteristics**

- Valve body in reinforced nylon
- NBR membrane (Buna-N)
- Working pressure 0.3 - 10 bar
- Fluid temperature max 50°C
- Sealed solenoid valve IP 67
- 2 watt absorption
- Manual opening using a lever under the solenoid valve.

**Dimensions**

Diameter	A	B	C	D	Weight
3/4"	105	110	105	81	230g
1"	112	110	112	81	230g
1 1/2"	180	160	-	126	740g
2"	190	170	-	126	790g



G75S (mini)		
Ref.	dimensions	voltage
IBG75S301N1	3/8"	24 Vac
IBG75S401N1	1/2"	24 Vac

**Characteristics**

- Valve body in reinforced nylon
- NBR membrane (Buna-N)
- Working pressure 0.5 - 12 bar
- Max flow rate 35 l/min
- Fluid temperature max 50°C
- Sealed solenoid valve IP 67
- 2 watt absorption
- Dimensions length 70 width 38 H 80 mm



G75PR		
Ref.	dimensions	voltage
IBG75PR7015	1 1/2"	without solenoid
IBG75PR8015	2"	without solenoid

The G75PR series, offering valves with a three-way pressure control pilot, assembled as standard, with the possibility of efficiently and constantly reducing pressure. The pressure socket on the pilot has a trickling filter installed to facilitate cleaning, when necessary. The XR100 pilot includes three positions for the manual intervention mechanism:

- AUTO: for automatic operation (the valve is open with pressure control)
- MANUAL: the valve is left open without pressure control
- CLOSED: the valve is left closed

Pressure to the pilot must be equal or greater than line pressure.

**Characteristics**

- Valve body in reinforced nylon
- NBR membrane (Buna-N)
- Working pressure 0.3 - 10 bar
- Fluid temperature max 50°C
- Flow regulator



GTP	
Ref.	description
ICGTP01	1 station
ICGTP02	2 stations
ICGTP04	4 stations

Battery operated programmers series with intuitive adjustment using selectors.

They offer multiple solutions for irrigation and therefore can be used in residual areas, public areas, sports fields, greenhouses, nurseries and for open field agriculture. To combine with the VDC latch solenoid valves from the VPN, VBN and VSN series with any diameter and high flow rates making them very useful in agricultural systems.

**Functions**

- Simple programming using selectors
- Irrigation times 2-5-10-15-30-60-90-120-150 min. per station using the selector
- Single program
- Irrigation frequency programmable every 1-2-4-8-12 hours or 1-2-3-7 days
- Irrigation cycle start delay of 10-30 minutes or 1-2-4-6 hours or 1-2-3 days
- Manual start-up with a pre-set time or programmable from 2 to 150 minutes
- Sensor connection
- Pump or master valve command for the 2 and 4 model stations

**Technical characteristics**

- Power supply with 1 x 9 volt alkaline battery (not included)
- Protection grade IP68
- Max working pressure to valve 10 bar
- Cable length 50 cm
- Max distance 30 m with cable sect. 1.5 mm<sup>2</sup>
- Dimensions diameter 82 mm H 64 mm
- Use VDC latch solenoid valves from the VPN, VBN and VSN 9 VDC series
- For connections, use of watertight connectors with gel is compulsory



GT1	
Ref.	
IGGTE1250	

Battery programmer to connect directly to the tap using the rotating fitting. Suitable for irrigation of terraces and small systems. Thanks to the ball valve, it can also work at 0 bar and therefore for water falling from the containers.

**Functions**

- Simple programming using 2 selectors
- Irrigation times 1-3-5-10-15-20-30-60-90-120 min. using the selector
- Single program
- Irrigation frequency programmable every 1-2-3-4-6-8-12 hours or 1-2-3-7 days
- Manual start-up with ON-OFF selector

**Technical characteristics**

- Power supply with 2 AAA alkaline batteries (not included)
- Positioning also outside
- Working pressure from 0 to 6 bar
- Inlet tap coupling with 3/4" female screw
- 3/4" male outlet coupling and quick fitting
- Water flow rate from 0 to 30 litres/min
- Operation only with cold water
- Inlet impurities safety filter
- Dimensions H 165 mm. width 95 mm, depth 95 mm





Bluetooth  
SMART

**Greentimer BT**

<b>Ref.</b>
<b>IGGTB1250</b>

Greentimer BT is tap controller ideal for irrigating terraces and small flowerbeds. It is programmed using a tablet or smartphone using a bluetooth connection using a free app for Android or iOS. Greentimer BT combines intuitive programming and a wealth of functionalities with the simplicity and functionality of the bluetooth app.

**Functions**

- Irrigation times from 1 to 360 min. with 1 minute increase
- Single program
- Two programmable starts at desired time
- Mist function with two daily starts
- Irrigation frequency programmable on a weekly basis or up to 15 day intervals
- Rain-delay function to delay an irrigation cycle up to 7 days
- Manual opening with time programmable from 1 to 360 minutes with 1 minute increase
- Programming via Bluetooth App for Android (4.3 or higher) or iOS (8.0 or higher)

**Characteristics**

- Power supply with 2 AA alkaline batteries (not included)
- Bluetooth 4.0 BLE Low Energy communication
- IP55 rain-proof
- Working pressure min. 0.5 bar - max 8 bar
- Inlet tap coupling 3/4" female
- 3/4" male outlet coupling
- Water flow rate from 2 to 40 litres/min
- Air working temperature from 6 to 60°C
- Cold water only
- Inlet impurities safety filter



**Greentimer PRO**

<b>Ref.</b>
<b>IGGTP1250</b>

Greentimer PRO is tap controller ideal for irrigating terraces and small flowerbeds. Equipped with a removable display and keypad, it can be conveniently programmed from your sofa.

**Functions**

- Irrigation times from 1 to 240 min. with 1 minute increase
- Single program
- Programmable start at desired time
- Programmable irrigation frequency every 6 or 12 hours or choosing the days of the week
- Rain-delay function to delay an irrigation cycle up to 7 days
- Manual opening with time programmable from 1 to 240 minutes with 1 minute increase
- Prepared for rain sensor (optional)

**Technical characteristics**

- Power supply with 2 AA alkaline batteries (not included)
- IP55 rain-proof
- Working pressure min. 0.5 bar - max 8 bar
- Inlet tap coupling with 3/4" brass female screw
- 3/4" male outlet coupling
- Water flow rate from 2 to 40 litres/min
- Air working temperature from 6 to 60°C
- Cold water only
- Inlet impurities safety filter



**Greentimer PRO accessories**

<b>Ref.</b>	<b>description</b>
<b>IGGTS21103</b>	Greentimer rain sensor

- Adjustable according to rain.
- Electric cable with plug for connection to programmer IGGTP1250
- Hydroscopic discs for rain and humidity absorption
- Fastening to gutter with a clamp or to the wall with a plug
- Adjustment: turn the hood by inserting it to the desired gradation when rainfall exceeds the pre-selected threshold, the sensor will activate suspending the irrigation cycle.



HRC-980	
Ref.	description
INMHRC980TAP1	1 station
INMHRC980TAP2	2 stations

**Functions**

- Irrigation times from 1 to 240 min. per station with 1 minute increase
- Single program
- Programmable start at desired time
- Irrigation frequency programmable from 6 to 12 hours and 1 to 7 days
- Rain-delay function to delay an irrigation cycle for 24, 48 or 72 hours
- Manual start-up with time programmable from 1 to 240 minutes with 1 minute increase

**Technical characteristics**

- Power supply with 2 AA alkaline batteries (not included)
- Positioning also outside
- Working pressure min. 1.7 bar - max 6 bar
- Inlet tap coupling with 3/4" female screw
- 3/4" male outlet coupling
- Water flow rate from 2 to 30 litres/min
- Air working temperature from 3 to 45°C
- Operation only with cold water
- Inlet impurities safety filter



HRC-990	
Ref.	description
INMHRC99004MS	4 stations+1 solenoid valve

**Functions**

- From 1 to 4 stations with 1 solenoid valve included, possibility of connecting up to 4 solenoid valves
- Irrigation times from 1 to 240 min. per station with 1 minute increase
- 2 independent programs
- 3 starts per program for a total of 6 daily starts
- Choice of weekly irrigation cycle or at intervals of 1 to 31 days
- Water budget adjustable from 10% to 200% with 10% increase
- Rain-delay function to delay an irrigation cycle from 1 to 7 days
- Sensor connection

**Technical characteristics**

- Power supply with 3 AA alkaline batteries (not included)
- Removable programming module
- Protection grade IP68
- Air working temperature from 0 to 65°C
- Working pressure min. 1 bar max 10 bar
- Positioning also in well

**Accessories**

- INMHRC990SDMD solenoid valve 13 VDC
- INMHRC990UNSD kit 2 pcs . cable with connector to connect solenoid valves and the sensor to the HRC 990 programmer

**NOTE:** order HRV or HRB solenoid valves, remove the solenoid valve and insert the one supplied with the programmer; if you want to add other solenoid valves (max total of 4) order for each no. 1 solenoid valve INMHRC990SDMD and no. 1 cable with connector INMHRC990UNSD





G75C with battery-operated single station	
Ref.	description
IBG75C100	without valve
IBG75C150	with valve 3/4"
IBG75C160	with valve 1"
IBG75C170	with valve 1 1/2" flow regulator
IBG75C180	with valve 2" flow regulator
IBG75C260	WINDOW with valve 1"

Independent programmer powered by a 9V battery and assembled on 3/4" to 2" solenoid valves. Indispensable for automation of irrigation systems where connection to electrical cables is not possible.

**Functions**

- Single station, battery operated
- Irrigation times from 1 min. to 12 hours with 1 minute increase
- Single program
- 3 programmable starts at desired time
- Choice of irrigation days of the week
- Possibility of using preset programs to simplify and speed up programming
- Manual start-up of the station with the time previously set in programming

**Functions of model IBG75C260 WINDOW**

- Single station, battery operated
- This programmer irrigates in cyclic mode, during a timeframe established by the user according to personal needs. Some crops must be irrigated for short periods, at defined time intervals. Example: new plants were just sown and you want to irrigate them for five minutes per hour, during the hottest period of the day, everyday. Set time Start Window at 10:00; End Time Window at 14:00; the Operating Period-ON (Duration) on 5 (minutes) and Disabling Period - OFF (Interval) on 1:00. Set irrigation for each day of the week. Cyclic irrigation is also used for temperature control.
- Single program
- Choice of intervention days of the week
- Programmable intervention time in hours, minutes or seconds

**Common technical characteristics**

- Power supply with 1 x 9 volt alkaline battery (included)
- Air working temperature from 0 to 65°C
- Working pressure min. 0.5 bar max 10 bar
- Horizontal and vertical valve installation
- Protection grade IP67
- Fastening the programmer to the solenoid valve or the wall

**Dimensions**

Thread	A	B	C
3/4"	145	110	81
1"	153	110	81
1 1/2"	166	160	127
2"	166	170	127



II.RI with single station battery	
Ref.	description
IBIIRIC506	with valve 3/4"
IBIIRIC606	with valve 1"
IBIIRIC705	with valve 1 1/2" flow regulator
IBIIRIC805	with valve 2" flow regulator

Set the program on your smartphone, activate the controller using the button on it and transfer the program via bluetooth. Programmable from a smartphone using the bluetooth app to download free of charge. Programmer without screen, resistant to water IP67, powered with a 3 Volt lithium battery already included that guarantees operation for 3 years. The smartphone can be used to save multiple programs from the comfort of your sofa and then transfer them to programmers via bluetooth with a simple activation click on the controller. Indispensable for irrigation system automation where electricity cables can't reach.

**Functions**

- Single station, battery operated
- Irrigation times in seconds, minutes hours from 3 sec. to 15 hours with 1 second increase and different duration for each irrigation cycle
- Single program
- Up to 6 programmable starts at desired time with different irrigation times for each start
- Choice of weekly, even days or odd days programming cycle or at intervals of 1 to 11 days
- Window program irrigates in cyclic mode, during a timeframe established by the user according to personal needs; set the hours of the window (cycle start and end), set the irrigation time and pause of the cycle (minimum 3 seconds) and choose the irrigation days. Also used for cooling.
- Manual start of the controller via smartphone

**Technical characteristics**

- Power supply with 1 CR123 lithium 3 volt battery (included)
- Air working temperature from 5°C to 50°C
- Working pressure min. 0.5 bar max 10 bar
- Horizontal and vertical valve installation
- Protection grade IP67
- No screen, programmable via smartphone
- Max. communication distance 10 m.
- Compatible with bluetooth 4.0
- Programming via Bluetooth App for Android 4.3 or higher and iOS 7 or higher





G75Cx with battery operated multi-station	
Ref.	description
IBG75C26060	with 2 valves 1"
IBG75C460	with 4 valves 1"

Multi-station programmer powered with 9V battery Indispensable for irrigation system automation where electricity cables can't reach and where multiple zones need to be sub-divided.

**Functions**

- 2 and 4 battery operated station model with 1" F valves
- Irrigation times from 1 min. to 12 hours with 1 minute increase
- Single program
- 3 programmable start times
- Choice of irrigation days of the week per single station
- Choice of zones to apply the start time previously set
- Manual start-up of the station with the time previously set in programming
- Water budget adjustable from 10% to 200%
- Master valve command (excluding 2 station model)
- With 1" F valves without flow regulator

**Common technical characteristics**

- Power supply with 1 x 9 volt battery (included)
- Air working temperature from 0 to 65°C
- Working pressure min. 0.5 bar max 10 bar
- Horizontal and vertical valve installation
- Protection grade IP67
- Fastening the programmer to the solenoid valve or the wall



G75C8	
Ref.	description
IBG75C81	8 stations 220 Vac
IBG75C82	8 stations 9 VDC latch

8 station programmer in 9 Volt Latch and 220 Vac versions.

**Functions**

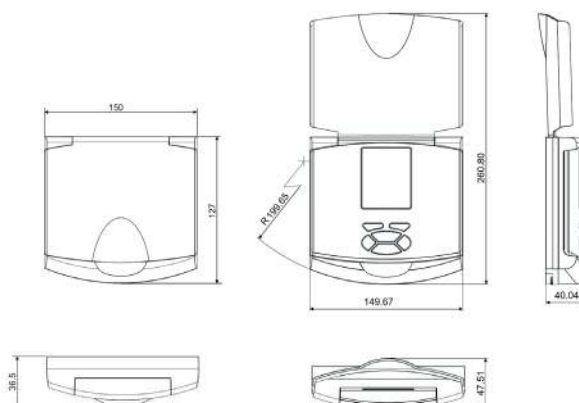
- Irrigation times from 1 min. to 12 hours with 1 minute increase
- Single program
- 4 programmable starts at desired time
- Choice of irrigation days of the week
- 4 programming options
  - Program A: irrigation according to the days of the week selected
  - Program B: irrigation according to the selection of the time intervals between one cycle and another over 3 days.
  - Program C: program pre-configured by the factory, according to the days of the week.
  - Program D: program pre-configured by the factory, according to the time between irrigation cycles.
- Manual start-up of the station with the time set in the programming phase
- Water budget adjustable from 10% to 200%
- Pump or master valve command
- Multi-lingual menu available for selection: Italian, English, Spanish, French, Portuguese, Hebrew
- Rain sensor connection
- Sensor by-pass switch

**9 VDC latch model technical characteristics**

- Power supply with 1 x 9 volt alkaline battery (not included)
- Works with Baccara 9 VDC latch solenoid valves, order separately
- Air working temperature from 0 to 65°C
- Wall installation, not in well

**Technical characteristics of 220 Vac model**

- External transformer 20-24 Vac supplied
- Air working temperature from 0 to 65°C
- Wall installation, not in well





HRC-100-C with internal transformer	
Ref.	description
INM94894	4 stations
INM94896	6 stations
INM94899	9 stations
INM94892	12 stations

**Functions**

- Irrigation times from 1 to 240 min. per station with 1 minute increase
- 3 independent programs
- 4 starts per program for a total of 12 daily starts
- Choice of weekly, even days or odd days programming cycle or at intervals of 1 to 28 days
- Water budget adjustable from 10% to 200%
- Emergency program which in the absence of a program activates a daily irrigation cycle with a duration of 10 min. per station
- Auto-diagnostic cycle that bypasses a short circuit station and continues the cycle on the next stations
- Manual start-up of the individual station or entire irrigation cycle
- Rain-delay function to delay an irrigation cycle for 24, 48 or 72 hours
- Permanent memory
- Pump or master valve command
- Rain sensor connection

**Technical characteristics**

- Incorporated transformer 220-24 Vac
- Container in plastic material with lock
- Positioning also outside
- Maximum load per station with two solenoid valves 220 mA or 1 solenoid valve 220 mA with a pump or master valve control
- A lithium battery (included) saves the date and time in the memory in the event of a power cut
- Dimensions H 165 mm. Width 215 mm. Depth 90 mm.



HRC-150 with internal transformer	
Ref.	description
INMHRC15004IN	4 stations
INMHRC15006IN	6 stations
INMHRC15009IN	9 stations
INMHRC15012IN	12 stations

**Functions**

- Irrigation times 2-5-10-15-30-60-90-120-150 min. per station using the vertical cursors
- 3 independent programs
- 4 starts per program
- Choice of bi-weekly, even days or odd days programming cycle or at intervals of 1 to 32 days
- Water budget adjustable from 20% to 200%
- Possibility of choosing the days with no irrigation
- Pause between the stations programmable from 1 min. to 9 hours
- Pump or master valve command programmable per single station
- Emergency program which in the absence of a program activates a daily irrigation cycle with a duration of 10 min. per station
- Auto-diagnostic cycle that bypasses a short circuit station and continues the cycle on the next stations
- Manual start-up of the individual station or entire irrigation cycle
- Sensor by-pass switch
- Rain sensor connection

**Technical characteristics**

- Incorporated transformer 220-24 Vac
- Container in plastic material with lock
- Positioning also outside
- Maximum load per station with two solenoid valves 220 mA or 1 solenoid valve 220 mA with a pump or master valve control
- 2 AA alkaline batteries (not included) saves the program in the memory in the event of a power cut
- Dimensions H 250 mm. width 180 mm, depth 100 mm.







HRC-050 with external transformer	
Ref.	description
INMHRC05004IN	4 stations
INMHRC05006IN	6 stations

**Functions**

- Irrigation times from 1 to 240 min. per station with 1 minute increase
- 2 independent programs
- 4 starts per program for a total of 8 daily starts
- Choice of weekly, even days or odd days programming cycle or at intervals of 1 to 32 days
- Manual start-up of the individual station or entire irrigation cycle
- Rain-delay function to delay an irrigation cycle for 24, 48 or 72 hours
- Emergency program which in the absence of a program activates a daily irrigation cycle with a duration of 10 min. per station
- Pump or master valve command
- Sensor connection

**Technical characteristics**

- External transformer 220-24 Vac
- Positioning inside
- Maximum load per 1 solenoid valve station 220 mA with a pump or master valve control
- 1 lithium battery (not included) saves the program in the memory in the event of a power cut
- Dimensions H 165 mm. width 135 mm, depth 45 mm.



B-HYVE with internal transformer	
Ref.	description
INM94546	6 stations
INM94550	12 stations

B-Hive the intuitive programmer with a wealth of functionalities. Orbit B-HYVE™ WiFi combines the ease of programming with the WiFi functionality Command the controller with the Android or iOS app, a computer, tablet or smartphone or directly on the programmer with the familiar intuitive interface. Equipped with WeatherSense™ technology that provides intelligent irrigation based on the conditions of the site such as slope, type of ground, sun exposure and ET forecast. Water savings for adequate irrigation by detecting weather feeds and local forecasts simply by inserting the postcode of your area where the programmer is installed on the internet site.

An ideal programmer for new installations or to replace old controllers, B-HYVE™ is available in 6 or 12 stations to cover most residential irrigation system requirements.

**Functions**

- WiFi programming via PC, Tablet and Smartphone with a free app for Android and iOS
- Traditional programming directly from the control panel
- WeatherSense™ technology that provides intelligent irrigation based on the conditions of the site such as slope, type of ground, sun exposure and ET forecast
- Water savings due to irrigation adaptation by detecting local weather feeds from the Internet site
- Irrigation times from 1 to 240 min. per station with 1 minute increase
- 3 independent programs
- 4 starts per program for a total of 12 daily starts
- Choice of weekly, even days or odd days programming cycle or at intervals of 1 to 28 days
- Water budget adjustable from 10% to 200%
- Cycle and soak app to prevent run-off
- Emergency program which in the absence of a program activates a daily irrigation cycle
- Auto-diagnostic cycle that bypasses a short circuit station and continues the cycle on the next stations
- Manual start-up of the individual station or entire irrigation cycle
- Rain-delay function to delay an irrigation cycle for 24, 48 or 72 hours
- Permanent memory
- Pump or master valve command
- Rain sensor connection

**Technical characteristics**

- Incorporated transformer 220-24 Vac
- Positioning also outside
- Maximum load per station with two solenoid valves 220 mA or 1 solenoid valve 220 mA with a pump or master valve control
- A lithium battery (included) saves the date and time in the memory in the event of a power cut
- Dimensions H 165 mm. Width 215 mm. Depth 90 mm.



HRC-100-RS	
Ref.	description
INMHRC100RSRF	Wireless rain sensor

Wireless rain sensor created to automatically shut-off the irrigation cycle of the programmer when it rains, without modifying the pre-set program. Similar to traditional rain sensors, but with the possibility of positioning up to a distance of 60 m from the receiver, to install alongside the programmer. Indispensable for systems where the rain sensor and programmer cannot be connected via cable.

**Functions and technical characteristics**

- Casing in UV ray resistant ABS and metal fastening
- Hydroscopic discs for rain and humidity absorption
- Fastening to gutter with a clamp or to the wall with a plug
- Usable with 24 Vac programmers
- Adjustable according to the rainfall 3-6-12-18-25 mm.
- Irrigation cycle shut-off when the temperature goes under 3°C
- Wireless transmission via transmitter and receiver
- Power supply of 24 Vac receiver using the programmer transformer
- Sensor mode: rain only, rain and frost, off
- Sensor on and battery level signalling using led
- Max wireless distance 60 m between the receiver and transmitter
- N.A (normally open) and N.C. (normally closed) contact
- Working temperature from -10°C to + 60°C
- Dimensions: H 160 mm, width 110 mm
- Adjustment: turn the hood by inserting it to the desired gradation; when rainfall exceeds the pre-selected threshold, the sensor will activate suspending the irrigation cycle.



HRC-100-RS	
Ref.	description
INM57275	Rain sensor

Rain sensor created to automatically shut-off the irrigation cycle of the programmer when it rains, without modifying the pre-set program. Inside the sensor, there are some hydroscopic discs which, in contact with the water inflate and cause a micro-switch to trigger, thereby shutting off irrigation. With subsequent evaporation of the water from the discs, they are restored to their initial status and the circuit is reset, allowing the programmer to command opening and closure of the solenoid valves.

**Functions and technical characteristics**

- Casing in UV ray resistant ABS and metal fastening
- Hydroscopic discs for rain and humidity absorption
- Fastening to gutter with a clamp or to the wall with a plug
- Can be used with 24 and 9 volt programmers
- Adjustable according to the rainfall 3-6-12-18-25 mm
- 9 m cable supplied
- Working temperature from -10°C to + 60°C
- Dimensions: H 110 mm, width 90 mm
- Adjustment: turn the hood by inserting it to the desired gradation when rainfall exceeds the pre-selected threshold, the sensor will activate suspending the irrigation cycle.





VS	
Ref.	description
IGVS2550	25 x 1/2"
IGVS3350	32 x 1/2"
IGVS3375	32 x 3/4"

Self-perforating, quick clamp saddle to install on polyethylene piping with a diameter of 25 and 32 mm. to create fast and leak-free offtakes on the sprinklers. Thanks to this particular detail, no tools are necessary for assembly. Simply couple the piping by pressing with your hand and fully screwing in the connection part with the help of the mandrel supplied. By doing so, you obtain perforation inside the pipe. The outlet connection is female threaded 1/2" or 3/4" according to the model.



**Technical characteristics**

- Maximum working pressure 8 bar
- It can perforate polyethylene piping max PN16 HD and LD with a diameter of 25 and 32 mm.
- Suitable only for underground installation; it cannot be assembled overground
- No tools are necessary for installation



51039	
Ref.	description
INM51039	1/2" brass

Drainage valve used for automatic emptying of the piping at the end of irrigation. The valve allows water to exit when the pressure goes under 0.25 bar, while it closes automatically when the pressure exceeds 0.4 bar. It must be installed on the lowest point of each section and inserted in a well, which can be inspected, that is well drained with gravel. Multiple drainage valves are recommended for very long sections.

**Technical characteristics**

- Maximum working pressure 6 bar
- Opening pressure 0.25 Bar
- Closure pressure 0.4 Bar
- Threading 1/2"M.
- Brass body and plastic filter



BL	
Ref.	description
INMBL407005	Elbow 1/2" F x BL
INMBL407074	Elbow 3/4" F x BL
INMBL410005	Elbow 1/2" F/M x BL
INMBL410007	Elbow 1/2" x 3/4" F/M x BL
INMBL409005	Swivel elbow x BL
INMBL406005	Elbow BL x BL
INMBL436005	Straight coupling 1/2" F/M x BL
INMBL436101	Straight coupling 1/2" x 3/4" F/M x BL
INMBL429005	Manifold BL x BL
INMBL401005	Tee BL x BL x BL
INMBLP050CL1X	BL pipe

Quick fittings and flexible piping to distance the sprinkler and the clamp saddle. The fittings are equipped with an automatic tie ring system which by simply pressing allows insertion or blockage of the pipe on the fitting, thereby speeding up installation.

**Functions and technical characteristics**

- ABS fitting
- Stainless steel tie ring
- Internal gasket in EPDM
- Max fittings pressure 5.5 Bar
- Pipe reel length 30 m.
- Max pipe pressure 5.5 Bar

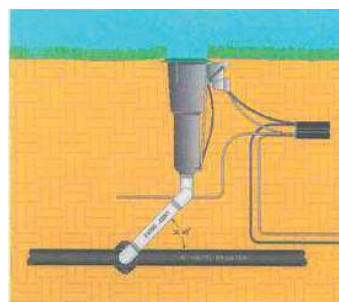


GS3	
Ref.	description
IGGS310M0ND30	1"
IGGS310M0NF30	1 1/2"

Pre-assembled swivel joints recommended for assembly of long radius sprinklers subject to considerable treading, caused by passing heavy equipment, especially in public and sports grounds. Enable positioning and levelling of the sprinklers.

**Technical characteristics**

- Maximum working pressure 14 bar
- Body in PVC
- Complete rotation at 360° in 3 directions
- Seal using gaskets
- Length 300 mm



BAN	
Ref.	description
IGBAN00000VER	green
IGBAN00000BLU	blue
IGBAN00000BIA	white
IGBAN00000GIA	yellow
IGBAN00000ROS	red

Flags with Irritec logo, suitable for signalling the position of the sprinklers. To insert in the ground in points where sprinklers and solenoid valves are installed. Available in various colours to recognise the various sections.

**Technical characteristics**

- Flag in various colours with Irritec logo
- 45 cm metal stake for easy positioning



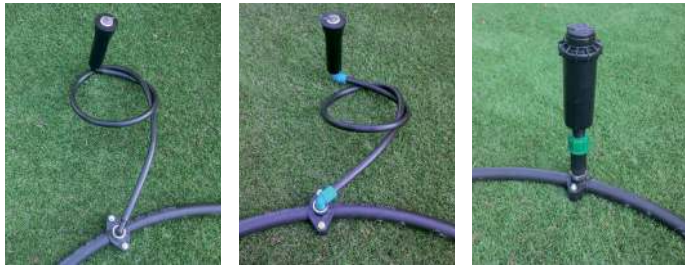
**PRR**

Ref.
<b>IGPRR20M0N20C</b>

Adjustable extension to level pop-up sprinklers both during installation and subsequently based on settling of the land. Adjustment takes place by rotating the sleeve to lift or lower the sprinkler on the ground without having to dig or damage the surrounding lawn.

**Functions and technical characteristics**

- Material: polyethylene
- Lower coupling 3/4" M
- Upper coupling 3/4" M and 1/2" M
- Adjustable from 13 to 20 cm
- Max pressure 6 bar to 20°C



**PRS**

Ref.	description
<b>IGPRS70M0N200</b>	1/2" x 1/2"
<b>IGPRS70M0N20C</b>	1/2" x 3/4"
<b>IGPRS70M0N250</b>	3/4" x 3/4"
<b>IGPRS70M0N25D</b>	3/4" x 1"

Extension in segments to level pop-up sprinklers both during installation and subsequently based on settling of the land. The segments can be cut to position the sprinkler on the ground without having to dig and damage the surrounding lawn.

**Functions and technical characteristics**

- Black polyethylene material
- Total height 15 cm.
- Minimum height 7.5 cm.
- 4 x 1.87 cm. segments



**GFP - MFP - RFP**

Ref.	description
<b>IGGFP6000N20B</b>	Elbow 16 x 1/2"M
<b>IGGFP6000N20C</b>	Elbow 16 x 3/4"M
<b>IGMFP6000N200</b>	Manifold 16 x 16
<b>IGRFP60M0N20B</b>	Straight fitting 16 x 1/2"M
<b>IGRFP60M0N20C</b>	Straight fitting 16 x 3/4"M

Quick hose fittings to screw into twist-proof TPP Ø 16 mm flexible piping to distance the sprinkler and the clamp saddle. The fittings are equipped with a helical insert which by simply rotating allows insertion or removal of the fitting from the pipe, thereby speeding up installation.

**Functions and technical characteristics**

- Material: acetal resin
- Max pressure 5.5 bar to 20°C
- Length thread side 4 cm
- Length pipe side 5 cm



**TPP**

Ref.	description
<b>FTD00B00J</b>	Pipe 16 mm.
<b>FTD00C00J</b>	Pipe 20 mm.

Twist-proof flexible pipe to distance the sprinkler and the clamp saddle. Use with fittings from the GFP, MFP, RFP and GPP series

**Functions and technical characteristics**

- Polyethylene material
- Max pressure 6 Bar
- Reel length 30 m
- Diameter 16 or 20 mm



**GPP**

Ref.	description
<b>IGGPP30M0A20B</b>	Elbow 16 x 1/2"M
<b>IGGPP30M0A20C</b>	Elbow 16 x 3/4"M
<b>IGGPP30M0N25B</b>	Elbow 20 x 1/2"M
<b>IGGPP30M0N25C</b>	Elbow 20 x 3/4"M

Quick hose fittings to screw into twist-proof GPP Ø 16 and 20 mm flexible piping to distance the sprinkler and the clamp saddle. The fittings are equipped with a self-threading insert which by simply rotating allows insertion or removal of the fitting from the pipe, thereby speeding up installation.

**Functions and technical characteristics**

- Acetal resin material
- Max pressure 6 bar to 20°C
- Length pipe side 5 cm
- Length thread side 4.5 cm



407-419-420-432-431-426-427-433		
Ref.	description	fig.
IG40760M0N320	Nipple 1" x 1" (POM) with o-ring	(407)
IG40720M0N320	Nipple 1" x 1" with o-ring	(407)
IG40720M0N500	Nipple 1 1/2" x 1 1/2" with o-ring	(407)
IG40720M0N630	Nipple 2" with o-ring	(407)
IG41960M0N32C	Reducing nipple 1" x 3/4" (POM) with o-ring	(419)
IG41920M0N32C	Reducing nipple 1" x 3/4" with o-ring	(419)
IG41920M0N50E	Reducing nipple 1 1/2" x 1 1/4" with o-ring	(419)
IG41920M0N63F	Reducing nipple 2" x 1 1/2" with o-ring	(419)
IG42420F0N320	Manifold 1"F x 1"F	(420)
IG42460D0N320	Manifold 1"M x 1"F (POM)	(420)
IG42420D0N320	Manifold 1"M x 1"F	(420)
IG42420D0V500	Manifold 1 1/2"M x 1 1/2"F	(420)
IG42420D0V630	Manifold 2"M x 2"F	(420)
IG43260D0N320	Tee 1"F x 1"M x 1"M (POM)	(432)
IG43220D0N320	Tee 1"F x 1"M x 1"M	(432)
IG43220D0V500	Tee 1 1/2"F x 1 1/2"M x 1 1/2"M	(432)
IG43220D0V630	Tee 2"F x 2"M x 2"M	(432)
IG43160D0N320	Tee 1"F x 1"F x 1"M (POM)	(431)
IG43120D0N320	Tee 1"F x 1"F x 1"M	(431)
IG43120D0V500	Tee 1 1/2"F x 1 1/2"F x 1 1/2"M	(431)
IG43120D0V630	Tee 2"F x 2"F x 2"M	(431)
IG42660F0N320	Elbow 1"F x 1"F (POM)	(426)
IG42620F0N320	Elbow 1"F x 1"F	(426)
IG42620F0V500	Elbow 1 1/2"F x 1 1/2"F	(426)
IG42620F0V630	Elbow 2"F x 2"F	(426)
IG42760D0N320	Elbow 1"F x 1"M (POM)	(427)
IG42720D0N320	Elbow 1"F x 1"M	(427)
IG42720D0V500	Elbow 1 1/2"F x 1 1/2"M	(427)
IG42720D0V630	Elbow 2"F x 2"F	(427)
IG43360D0N320	Cross 1"F x 1"F x 1"F x 1"M (POM)	(433)
IG43320D0N320	Cross 1"F x 1"F x 1"F x 1"M	(433)
IG43320D0V500	Cross 1 1/2"F x 1 1/2"F x 1 1/2"F x 1 1/2"M	(433)
IG43320D0V630	Cross 2"F x 2"F x 2"F x 2"M	(433)

434-435-436	
Ref.	description
IG43410D0N320	1 inlet + 2 outlets 1"F
IG43510D0N320	1 inlet + 3 outlets 1"F
IG43610D0N320	1 inlet + 4 outlets 1"F

Collectors in single, resistant and robust block They enable fast assembly of the solenoid valves thanks to the connections with o-rings. They are assembled without using Teflon and tools, simplifying the installer's work both in assembly and any maintenance work on the solenoid valves.

**Functions and technical characteristics**

- Body in PVC
- O-ring in nitrile rubber
- Max pressure 10 bar to 20°C
- Inlet and outlets 1"

Quick fittings for collectors with connections and o-rings. They are assembled without using Teflon and tools, in a simple and fast manner, facilitating the installer's work both in assembly and any maintenance work. The nipples have a gasket that enables assembly on the solenoid valves without using Teflon.

**Functions and technical characteristics**

- Polypropylene (PP) material
- Acetal resin material (POM)
- O-ring in nitrile rubber
- Max pressure 10 bar to 20°C
- Connection diameter 1", 1 1/2" and 2"



425-431	
Ref.	description
IG42520D0N32C	fitting 1"F x 25
IG42520D0N32D	fitting 1"F x 32
IG42820D0N32C	fitting 1"F x 25
IG42820D0N32D	fitting 1"F x 32

Compression fitting for piping with diameters of 25 and 32 mm with a 1" F connector and o-ring for quick assembly outbound of the solenoid valves or on 1" threading. They are assembled without using Teflon and tools, simplifying the installer's work both in assembly and any maintenance work on the solenoid valves.

**Functions and technical characteristics**

- Polypropylene (PP) material
- O-ring in nitrile rubber
- Max pressure 10 bar to 20°C
- For 25 and 32 mm tubing



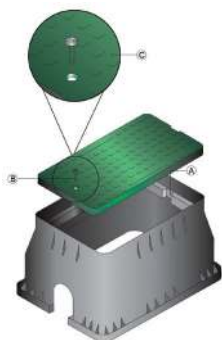
**PCZ**

Ref.	description
IGPCZ2000N02C	LARGE circular
IGPCZ2000N04R	STANDARD rectangular
IGPCZ2000N06R	JUMBO rectangular

Created mainly to host solenoid valves, shutters, hydraulic valves and any other underground tool to inspect. Robust and manufactured with prime quality materials, the wells are resistant to bad weather and knocks. The vandalism-proof bolt and counter-nut act as a handle to lift the cover. The wells allow vehicle passage for maintenance of the greenery and, as a result, they are also indicated for parks, sports fields and public green areas. They are also equipped with a green cover for good integration with the lawn. No dirt gets in thanks to the overlap.

**Functions and technical characteristics**

- Black base in reinforced polypropylene
- Cover with overlap in green reinforced polypropylene
- Vandalism-proof bolt in stainless steel AISI 304 for rectangular models
- Maximum load applicable according to standard UNI EN 124. See table below



Vandalism-proof bolt with internal counter-nut that acts as a handle to lift the cover



**EST**

Ref.	description
IGEST2000N14R	STANDARD h 90
IGEST2000N04R	STANDARD h 165
IGEST2000N06R	JUMBO h 165

Extension for rectangular wells; you can insert them in Standard and Jumbo wells in the PCZ and POZ series. They fit on the well to increase its height. They are very useful on sports grounds where the piping is normally placed over 30 cm deep.

**Functions and technical characteristics**

- Black base in reinforced polypropylene
- No cover

Model	Ref. PCZ - POZ - EST			Max load	Weight kg
	Low. base	Upp. base	H		
MINI	200	160	230	250 kg	0,49
LARGE	320	225	250	450 kg	1,23
STANDARD	380 x 496	273 x 405	300	700 kg	3,66
JUMBO	500 x 640	370 x 520	300	1000 kg	7,18
EST STANDARD	273 x 405	273 x 405	90	-	1,04
EST STANDARD	273 x 405	273 x 405	165	-	1,62
EST JUMBO	370 x 520	370 x 520	165	-	2,50



**POZ**

Ref.	description
IGPOZ2000N01C	MINI circular
IGPOZ2000NA2C	LARGE circular
IGPOZ2000NA4R	STANDARD rectangular
IGPOZ2000NA6R	JUMBO rectangular

Created mainly to host solenoid valves, shutters, hydraulic valves and any other underground tool to inspect. They are manufactured in material resistant to bad weather and knocks. The vandalism-proof bolt and counter-nut act as a handle to lift the cover. The wells allow vehicle passage for maintenance of the greenery and, as a result, they are also indicated for parks, sports fields and public green areas. Equipped with a green cover for good integration with the lawn.

**Functions and technical characteristics**

- Black base in reinforced polypropylene
- Cover in green reinforced polypropylene
- Vandalism-proof bolt in stainless steel AISI 304 for rectangular models
- Maximum load applicable according to standard UNI EN 124. See table below



**PVM**

Ref.
IGPVM2S00V0CC

Thanks to the well with metal ball valve, a fast and practical water connection is possible. The green cover has a hinge and click closure is obtained using a slot for hose passage also when closed. The double inlet is under the side inlet, easing hydraulic connection and installation.

**Functions and technical characteristics**

- Metal ball valve 3/4" M
- Lower and side inlet 3/4" F
- Plug 3/4" M for unused inlet closure
- Black base in polypropylene
- Cover in green polypropylene
- Cover with click closure and hole for hose passage
- Measurements: diameter 21 cm, h 13 cm with closed cover

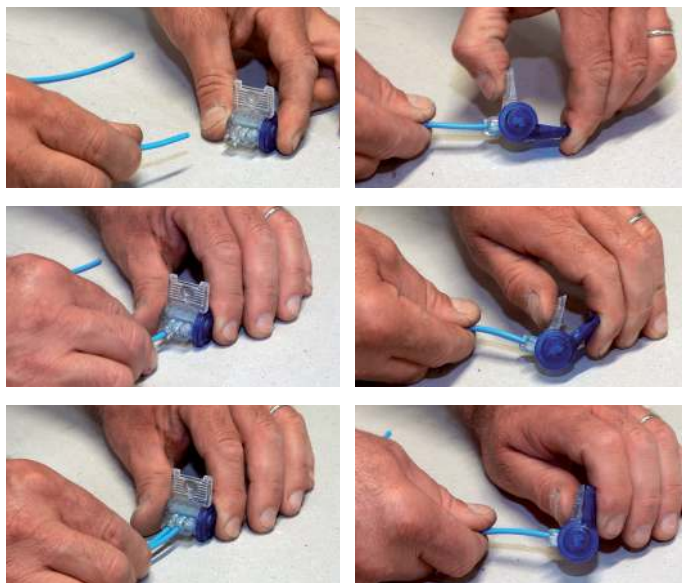


BV	
<b>Ref.</b>	<b>description</b>
IGBVS1	max. 3 x 2.5 mm <sup>2</sup> conductors

Watertight connectors pre-filled with insulating gel suitable for low voltage connection of solenoid valves to the electric cable. Quick to install, with no tools necessary, simply insert the cables without stripping them and then press the two tabs for a watertight connection between the electric cables. They also offer optimum insulation in flooded wells.

#### Technical characteristics

- Ready for use, pre-filled with insulating gel
- Electric cable max 3x2.5 mm<sup>2</sup>.
- Maximum use voltage 30 volt
- Working temperature from -30°C to +70°C
- Also for connections in wells



Each solenoid valve needs 2 connectors





P23

<b>Ref.</b>
<b>IDP23B0MM000H</b>

Indicated for irrigation of the ground in nurseries, lawns and other systems. To install on rods, stands and supports.

**Technical characteristics**

- Alloy body
- Stainless steel springs
- Connection 1/2" M.
- Variable section and complete rotation
- Deflector to adjust trajectory from 0 to 25° and the jet range
- Anti-spray arm
- Reduction screw

**Performance**

Ø nozzle	P (bar)	Q (m³/h)	D (m)
5/32" 3,96 mm	1,72	0,80	21,4
	2,07	0,90	23,8
	2,41	0,99	25,6
	2,76	1,05	26,2
	3,10	1,11	26,8
	3,45	1,17	28,6
	3,79	1,24	29,2



P27

<b>Ref.</b>
<b>IDP27B0MP4000</b>

Indicated for irrigation of the ground in nurseries, lawns and other systems. To install on rods, stands and supports.

**Technical characteristics**

- Plastic body
- Stainless steel springs
- Connection 1/2" M.
- Variable section and complete rotation
- Deflector to adjust trajectory from 0 to 25° and the jet range
- Anti-spray arm
- Reduction screw

**Performance**

Ø nozzle	P (bar)	Q (m³/h)	D (m)
nero 4,0 mm	1,0	0,60	21,0
	2,0	0,85	24,0
	3,0	1,03	26,0



ASP

<b>Ref.</b>
<b>IDASP12</b>

Indicated for irrigation of the ground in nurseries, lawns and other systems. To install on rods, stands and supports.

**Technical characteristics**

- Plastic body
- Stainless steel springs
- Connection 1/2" M.
- Variable section and complete rotation
- Deflector to adjust trajectory from 0 to 25° and the jet range
- Anti-spray arm

**Performance**

Ø nozzle	P (bar)	Q (m³/h)	Radius (m)
3,0 mm	1,0	0,33	7,7
	2,0	0,47	10,8
	3,0	0,58	13,20

*NB: the range, radius and diameter data are calculated in the absence of wind and can be reduced by 25% by adjusting the reduction screw*



**HYDRA**

Ref.	IDHYDRA10252
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Professional sprinklers indicated for irrigation of sports grounds, horse riding tracks, large surfaces.

**Technical characteristics**

- Alloy body
- Variable section and complete rotation
- Connection 1 1/2" F.
- Anti-spray arm
- 25° trajectory
- Nozzle 12, 14 and 16 mm. supplied
- 5 mm secondary nozzle
- Reduction screw

**Performance**

Nozzle (mm)	Pressure (atm)	Radius (m)	Flow rate	
			l/m	m³/h
10 5	2	18	110	6,6
	3	20,5	135	8,1
	4	23,5	157	9,4
	5	26	175	10,5
12 5	2	20	152	9,1
	3	24	182	10,9
	4	27	211	12,6
	5	30	236	14,1
14 5	2	21	195	11,7
	3	26	239	14,3
	4	29	277	16,6
	5	31	309	18,5
16 5	2	22	247	14,8
	3	26	303	18,2
	4	30	351	21,0
	5	33	391	23,4
18 5	3	28	378	22,7
	4	31	436	26,2
	5	34	487	29,2
20 5	6	36	533	31,9
	3	28,5	460	27,6
	4	32	532	31,9
	5	34,5	594	35,6
	6	36,5	651	39,0



**FUNNY and K1**

Ref.	coupling dimensions
IDFUNNY10018	1" F
IMK110014	1 1/4" F

Professional sprinklers intended for irrigation of mixed crops, vegetables, orchards, playing fields and for frost-free protection.

**Technical characteristics**

- Alloy body
- Variable section and complete rotation
- Anti-spray arm
- 28° trajectory
- Nozzle 6 and 7 mm. supplied (FUNNY)
- Nozzle 9 and 10 mm. supplied (K1)
- Reduction screw

**FUNNY performance**

Nozzle	Pressure (atm)	Radius (m)	Flow rate	
			l/m	m³/h
5 mm	1,5	12,5	20	1,2
	2	13,5	22	1,3
	3	15	27	1,6
	4	16,5	32	1,9
6 mm	1,5	13	28	1,6
	2	14,5	32	1,9
	3	16,5	39	2,3
	4	17,5	45	2,7
7 mm	1,5	14	37	2,2
	2	15	42	2,6
	3	17	52	3,1
	4	18,5	60	3,7
9 mm	1,5	15	62	3,7
	2	16,5	71	4,3
	3	18,6	87	5,2
	4	19,5	100	6,1

**K1 performance**

Nozzle	Pressure (atm)	Radius (m)	Flow rate	
			l/m	m³/h
8 mm	1,5	15,5	49	2,9
	2	17	57	3,4
	3	19	69	4,1
	4	20,5	80	4,8
9 mm	1,5	16,5	62	3,7
	2	17,5	71	4,2
	3	19,5	87	5,2
	4	21	100	6,0
10 mm	1,5	17	76	4,5
	2	18	88	5,3
	3	20,5	107	6,4
	4	22	124	7,4
12 mm	1,5	17	110	6,6
	2	19	127	7,6
	3	21	155	9,3
	4	23,5	179	10,7

*NB: the range, radius and diameter data are calculated in the absence of wind and can be reduced by 25% by adjusting the reduction screw*



**DUPLEX**

<b>Ref.</b>	<b>IDDUPLEX10137</b>
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Professional sprinkler recommended for the irrigation of sports facilities, riding tracks, wide surfaces. Equipped with interchangeable nozzles and an adjustable jet-breaker, providing a uniform distribution of water all over the irrigated area.

**Technical characteristics**

- Alloy body
- Part circle and full circle
- 2" F connection
- Anti-spray arm
- 25 ° trajectory
- 14, 16, 18 and 20 mm nozzles included
- 8 mm secondary nozzle
- Screw

**Performances**

Nozzle	Pressure (atm)	Radius (m)	Flow rate	
			l/m	m <sup>3</sup> /h
12 8	1,5	20	159	9,5
	2	23	184	11,0
	3	27	224	13,4
	4	30	259	15,5
14 8	2	25	230	13,8
	3	29	280	16,8
	4	32	325	19,5
16 8	5	34	364	21,8
	2	27	282	16,9
	3	31	344	20,6
18 8	4	34	399	23,9
	5	37	446	26,7
18 8	2	28	343	20,6
	3	33	434	26,0
	4	36	506	30,3
	5	40	561	33,6
20 8	2	29	411	24,6
	3	34	520	31,2
	4	38	606	36,3
	5	43	657	39,4
22 8	3	34,5	590	35,4
	4	39	682	40,9
	5	44	766	45,9
	6	46,5	839	50,3

**NB:** the radius, jet length and diameter data are calculated in the absence of wind and can be reduced by 25% by adjusting the spigot screw



**777 - 778**

<b>Ref.</b>	<b>connection size</b>
<b>INM778D1</b>	1" M connection
<b>INM777D14</b>	1 1/4" M connection

Tripods suitable for the installation of above-ground sprinklers, equipped with adjustable rod to position the sprinkler at the desired height. The swivel hose connector, which facilitates hose connections, can be removed to screw a threaded fitting.

**Technical characteristics**

- Electro-galvanized steel body
- Height of closed position 800 mm.
- Maximum height with adjustable central rod 1000 mm.
- Adjustable central pipe with male thread
- Adjustable nylon hose holder



**779**

<b>Ref.</b>	<b>connection size</b>
<b>INM779D12</b>	1/2" F connection
<b>INM779D34</b>	3/4" F connection

**Technical characteristics**

- Electro-galvanized steel body
- Height of closed position 800 mm.
- Insert inlet connection female thread



**780F**

<b>Ref.</b>	<b>connection size</b>
<b>INM780D34</b>	1/2" F connection

**Technical characteristics**

- Electro-galvanized steel body
- Size: 380 x 280 x h 90 mm
- 1/2" Female sprinkler connection
- Insert inlet connection female thread



**R3T**

Ref.	description
INMR3T	self-propelled trolley
INM3021COM	hose winding trolley (trailer)

Self-propelled trolley for irrigation of large sports grounds and lawn green areas. Operation is simple: bring the self-propelled trolley to the start position and open the valve, remove the 100 m long cable and fasten it to the end with a stake supplied, on one side connect the flexible or polyethylene LD 32 mm pipe, on the other the hydrant, open the hydrant tap. The self-propelled trolley will start to advance and irrigate. At the end of the path, it stops against the stake to stop the trolley, shutting off the water supply. Equipped with an adjustable section sprinkler, thanks to which irrigation can be provided as you wish on the left or right, to avoid stopping any training in progress, maintenance work or otherwise. If the area has just been seeded, the sprinkler can be adjusted to 180°, thereby allowing advancement of the trolley on dry ground.

**Technical characteristics of the self-propelled trolley**

- Working pressure min. 3 max. 5 bar to the trolley
- Working pressure min. 3.5 bar to the trolley, with the standard nozzle assembled on the sprinkler
- Water turbine action
- Automatic disconnection at end of path
- Gear and turbine in cast iron
- Surface width irrigated from 26 to 40 m
- Surface length irrigated from 13 to 140 m
- Max running speed 25 m/h approx., which can be reduced to 10 m/h using the speed regulator (optional) to assemble on the water inlet of the self-propelled trolley
- Rainfall from 3 to 10 mm
- Device to couple the hose winding trolley
- 1" or 32 mm pipe needed (not included)
- Sector coupling 1" M sprinkler with water hammer included

**Technical characteristics of the hose winding trolley**

- Hot galvanised frame
- It can host up to 100 m. of flexible garden hose (not supplied)
- Winder roll with passage and swivel joint in brass
- Towing bracket
- Flexible hose section with fittings for connection to the self-propelled trolley

**Accessories**

- INMR3SA1019 - speed regulator 10-25 m/H

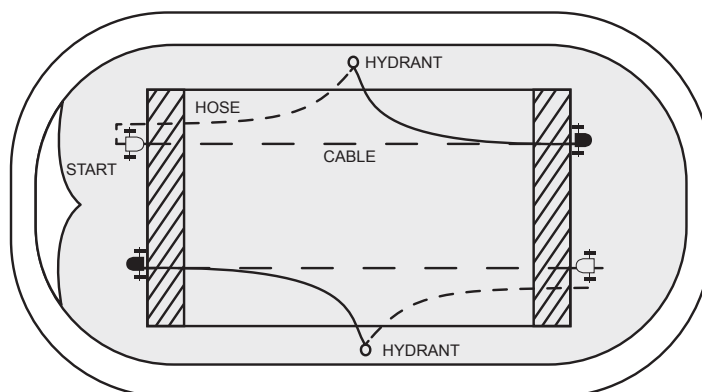


**Sprinkler performance**

Ø nozzle	Pressure (bar)	Diameter (m)	Flow rate (m³/h)
5,95 mm	3,0	32	2,0
	4,0	34	2,2
	5,2	36	2,5
6,35 mm standard	3,5	34	2,5
	4,0	34	3,0
	4,5	35	3,2
7,14 mm	5,0	36	3,3
	4,0	36	3,1
	5,0	39	3,5

*NB: the range, radius and diameter data are calculated in the absence of wind*

**Trolley operation on sports ground**





PRLG 3/4"			
Ref.	bar max inlet	flow rate m <sup>3</sup> /h	bar outlet
INMPRLG100	5,5	0,11 - 1,59	0,7
INMPRLG150	6,2	0,11 - 1,59	1,0
INMPRLG200	6,9	0,11 - 1,59	1,4
INMPRLG250	8,2	0,11 - 1,59	1,7
INMPRLG300	8,2	0,11 - 1,59	2,0
INMPRLG350	8,2	0,11 - 1,59	2,4
INMPRLG400	8,2	0,11 - 1,59	2,7

PSR 2 3/4"			
Ref.	bar max inlet	flow rate m <sup>3</sup> /h	bar outlet
INMPSR60	6,8	0,11 - 3,40	0,4
INMPSR100	8,2	0,11 - 3,40	0,7
INMPSR150	9,3	0,11 - 3,40	1,0
INMPSR200	9,3	0,11 - 3,40	1,4
INMPSR250	9,3	0,11 - 3,40	1,7
INMPSR300	9,3	0,11 - 3,40	2,0
INMPSR350	9,3	0,11 - 3,40	2,4
INMPSR400	9,3	0,11 - 3,40	2,7
INMPSR500	9,3	0,11 - 3,40	3,4

PMRMF 1"			
Ref.	bar max inlet	flow rate m <sup>3</sup> /h	bar outlet
INMPMRMF60	6,9	0,91-3,63	0,4
INMPMRMF100	8,2	0,91-3,63	0,7
INMPMRMF150	10,3	0,45-4,54	1,0
INMPMRMF200	10,3	0,45-4,54	1,4
INMPMRMF250	10,3	0,45-4,54	1,7
INMPMRMF300	10,3	0,45-4,54	2,0
INMPMRMF350	10,3	0,45-4,54	2,4
INMPMRMF400	10,3	0,45-4,54	2,7
INMPMRMF500	10,3	0,45-4,54	3,4
INMPMRMF600	10,3	0,45-4,54	4,1

PRLG and PSR 2 are pressure regulators ideal for application of small garden sprinklers such as drip systems on hedges, in vases. Built with resistant technopolymers and springs and fastening screws in high quality stainless steel. Choose the model based on the desired outlet pressure.

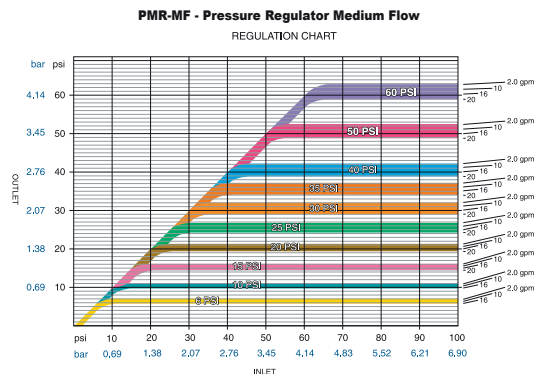
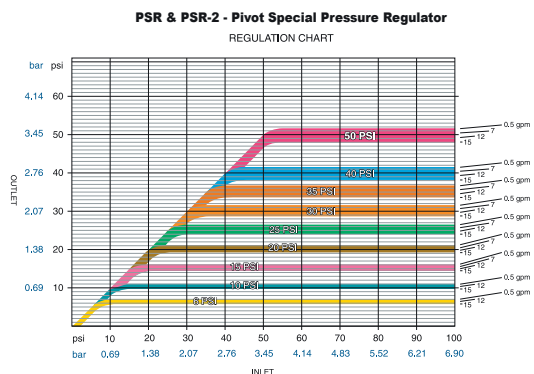
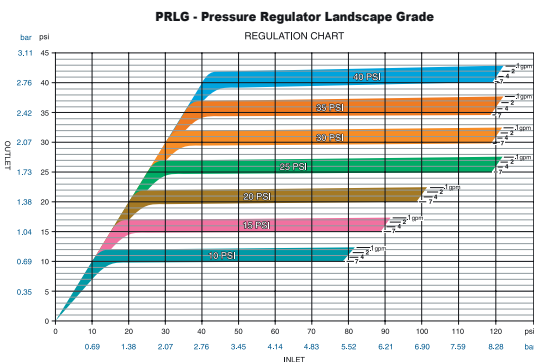
**Functions and technical characteristics**

- Outlet pressure different from each model from 0.4 (PRLG 0.7) to 2.7 bar
- Very low load loss
- PRLG threading inlet 3/4"F, outlet 3/4"M
- PSR 2 threading inlet 3/4"F, outlet 3/4"F
- Tested with water, no need for any adjustment
- No metal parts outside for excellent resistance to corrosion
- Always install downstream of all the shut-off valves

PMRMF is a pressure regulator ideal for application on both drip systems in farmed fields and irrigation of gardens such as drip systems on hedges, in vases and rain systems in gardens. Built with resistant technopolymers and springs and fastening screws in high quality stainless steel. Choose the model based on the desired outlet pressure.

**Functions and technical characteristics**

- Outlet pressure different from each model from 0.4 to 4.1 bar
- Very low load loss
- Inlet 1"F threading
- Outlet 1"F threading
- Tested with water, no need for any adjustment
- No metal parts outside for excellent resistance to corrosion
- Always install downstream of all the shut-off valves





PRHF 1"1/4			
Ref.	bar max inlet	flow rate m <sup>3</sup> /h	bar outlet
INMPRHF100	4,1	2,27-7,27	0,7
INMPRHF150	5,5	2,27-7,27	1,0
INMPRHF200	6,9	2,27-7,27	1,4
INMPRHF250	6,9	2,27-7,27	1,7
INMPRHF300	6,9	2,27-7,27	2,0
INMPRHF400	6,9	2,27-7,27	2,7
INMPRHF500	6,9	2,27-7,27	3,4

PRHF, the pressure regulator suitable for application in the agricultural sector with drip systems, sprinkling systems, pivot systems, and in the gardening sector in drip and rain systems. Built with resistant technopolymers and springs and fastening screws in high quality stainless steel. Choose the model based on the desired outlet pressure

**Functions and technical characteristics**

- Outlet pressure different from each model from 0.7 to 3.4 bar
- Very low load loss
- Inlet 1"1/4F threading
- Outlet 1"1/4F threading
- Tested with water, no need for any adjustment
- No metal parts outside for excellent resistance to corrosion
- Always install downstream of all the shut-off valves

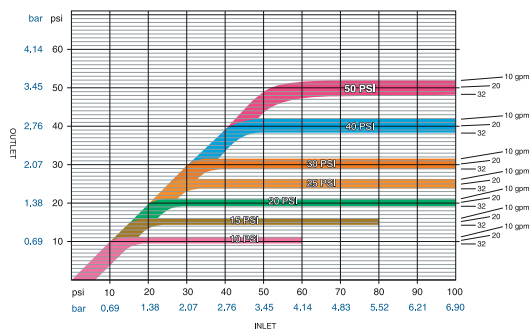
PRU 2"			
Ref.	bar max inlet	flow rate m <sup>3</sup> /h	bar outlet
INMPRU100	6,2	4,54-22,71	0,7
INMPRU150	6,5	4,54-22,71	1,0
INMPRU200	6,8	4,54-22,71	1,4
INMPRU250	7,2	4,54-22,71	1,7
INMPRU300	7,5	4,54-22,71	2,0
INMPRU400	8,2	4,54-22,71	2,7
INMPRU500	8,9	4,54-22,71	3,4
INMPRU600	9,6	4,54-22,71	4,1

PRU, the pressure regulator with the highest flow rate, ideal for application in the golfing, sporting, public and private sectors. Built with resistant technopolymers and springs and fastening screws in high quality stainless steel. Choose the model based on the desired outlet pressure

**Functions and technical characteristics**

- Outlet pressure different from each model from 0.7 to 4.1 bar
- Very low load loss
- Inlet 2"F threading
- Outlet 2"F threading
- Tested with water, no need for any adjustment
- No metal parts outside for excellent resistance to corrosion
- Always install downstream of all the shut-off valves

PR-HF - Pressure Regulator High Flow  
REGULATION CHART





**P1® dripline (8mil)**

Ref.	Ø	flow-rate	spacing	reel
FNFJ080201F	16 mm	1,5 l/h	20 cm	100 m
FNFJ080202F	16 mm	2,1 l/h	20 cm	100 m
FNFJ080301F	16 mm	1,5 l/h	30 cm	100 m
FNFJ080302F	16 mm	2,1 l/h	30 cm	100 m
FNFJ080201I	16 mm	1,5 l/h	20 cm	250 m
FNFJ080202I	16 mm	2,1 l/h	20 cm	250 m
FNFJ080252I	16 mm	2,1 l/h	25 cm	250 m
FNFJ080301I	16 mm	1,5 l/h	30 cm	250 m
FNFJ080302I	16 mm	2,1 l/h	30 cm	250 m

**P1® dripline (10mil)**

Ref.	Ø	flow-rate	spacing	reel
FNFI1002014	16 mm	1,5 l/h	20 cm	220 m
FNFI1002024	16 mm	2,1 l/h	20 cm	220 m
FNFI1002514	16 mm	3,8 l/h	25 cm	220 m
FNFI1003014	16 mm	1,5 l/h	30 cm	220 m
FNFI1003024	16 mm	2,1 l/h	30 cm	220 m

P1 is the light dripline with flat dripper ideal to irrigate flower beds, shrubs and small plants in general. P1 has advanced technical features and meets the highest quality standards according to ISO 9261.

**Functions and technical characteristics**

- Flow rate 8 mil max 0.9 bar - 10 mil max 1.1 bar.
- Dripper flow rate 1.5 - 2.1 - 3.8 l/h.
- Recommended filtration: 155 mesh
- The particular design of the labyrinth reduces pressure-sensitivity and increases the self-cleaning effect thanks to higher turbulence level.
- Flat dripper only 2 mm thick, welded to the inner wall of the pipe, with almost no head losses.
- The integrated inlet filter avoids occlusion.

**Recommended length in meters according to the flow-rate**

P1® 16 mm				
Flow-rate lph	1,5		2,1	
E.U. %	90	85	90	85
Spacing 20 - 25 cm	117	144	96	124
Spacing 30 cm	151	186	124	154

**Pressure flow-rate relation**

Nominal diametre	Nominal flow-rate	Pressure (bar)		
mm	lph	0,5	0,7	1,0
16	1,5	1,0	1,20	1,50
	2,1	1,5	1,75	2,09

**IrritecTape™ dripline (6mil)**

Ref.	Ø	flow-rate	spacing	reel
FNI50610H1S	16 mm	1,2 l/h	10 cm	300 m
FNI5062040S	16 mm	0,9 l/h	20 cm	300 m
FNI5062053S	16 mm	1,2 l/h	20 cm	300 m

Irritec Tape is the light continuous labyrinth dripline ideal in cases of low spacing. The reduced distance between the drip points and the low flow rate guarantee an excellent performance even in very sandy soils.

**Functions and technical characteristics**

- Max. working pressure 0,7 bar
- Dripper flow-rate 0,9 – 1,2 l/h
- Recommended filtration: 120 mesh
- Particular shape of the turbulent flow labyrinth.
- The extended filtering surface protects from possible obstruction.
- Possibility to reach high lengths.

**Recommended length in meters according to the flow-rate**

IrritecTAPE™ 16 mm		
Flow-rate lph	1,2	
E.U. %	90	85
Spacing 10 cm	75	91
Spacing 20 cm	117	144

**Pressure flow-rate relation**

Nominal diametre	Nominal flow-rate	Pressure (bar)			
a 0,7 bar	a 0,55 bar	0,25	0,40	0,55	0,70
0,90 l/h	0,80 l/h	0,55	0,69	0,80	0,90
1,20 l/h	1,07 l/h	0,75	0,92	1,07	1,20

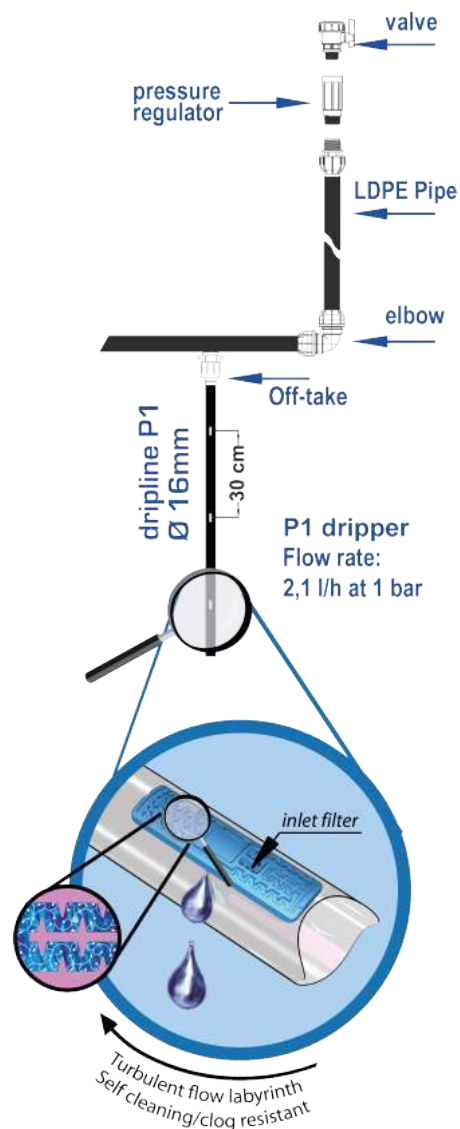
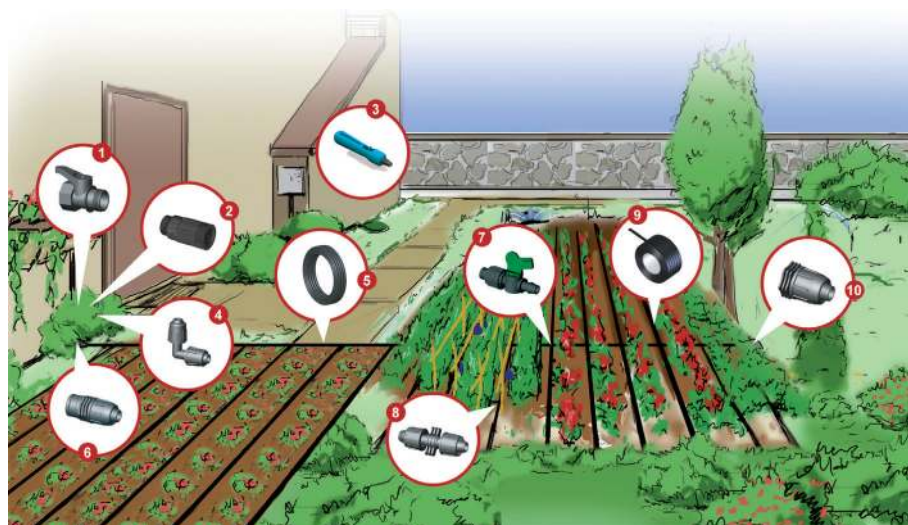


Irrigo	
Ref.	
SHI150ST20NFI	Garden with 3/4" pressure regulator
SHA150ST20NFI	Agricultural with 3/4" filter

Irrigo™, by Irritec®, is the new “Ready to use” drip irrigation kit, which allows water and nutrients to be evenly distributed close to the roots of each plant. Irrigo™ has been designed to ensure easy installation and use and reduced maintenance. No professional skills are required to manage the system. Irrigo™ makes the most advanced microirrigation technology available to everyone.

**Kit including:**

- 1 valve 3/4"
- 1 puncher
- 1 elbow Ø 20 mm
- mt. 15 of 20 mm Ø pipe
- 1 fitting 20 Ø x 3/4"
- 10 offtakes 16 mm Ø
- 4 sleeves 16 mm Ø
- mt. 100 of dripline Ø 16 mm
- 1 cap Ø 20 mm
- 1 filter 3/4" (only for Irrigo agricultural)
- 1 pressure regulator 3/4" (only for Irrigo garden)







**Adjustable mini bubbler**

Ref.	description
<b>INM201176</b>	360° 4,5 mm barb
<b>INM201194</b>	360° spike

The mini bubbler generates a uniform "umbrella" that gently applies water to the root area of the plant. The simple rotation of the nozzle allows the adjustment of both the flowrate and the regulate flow and throw at the same time.

**Functions and technical characteristics**

- Made of anti-UV stabilized polypropylene
- Height: 152 mm, spike model
- Width: 42 mm , spike model
- Height: 24 mm barb model
- Width: 20 mm barb model
- Ideal for watering plants in small or large pots, flower beds and shrubs.

●	Pressure bar	Flow-rate l/h	Diametre m
max. adjustment by approx. 18 clicks	<b>1</b>	<b>0 - 85</b>	<b>0 - 0,5</b>
	1,5	0 - 103	0 - 0,8
	2	0 - 119	0 - 1,0



**Adjustable dripper 5 and 8 streams**

Ref.	description
<b>INM200016</b>	360° 4,5 mm barb
<b>INM200034</b>	360° spike
<b>INM201146</b>	180° 4,5 mm barb
<b>INM201164</b>	180° spike

It generates a pattern of 5 or 8 uniform and delicate water jets, opening and closing by clicks, setting of flow-rate and throw by simple nozzle rotation.

**Functions and technical characteristics**

- Made of anti-UV stabilized polypropylene
- Height: 152 mm, spike model
- Width: 42 mm, spike model
- Height: 24 mm barb model
- Width: 20 mm barb model
- Ideal for watering small or large pots, tall trees on flower beds and green areas.

☼	Pressure bar	Flow-rate l/h	Radius m
max. adjustment by approx. 20 clicks	<b>1</b>	<b>0 - 85</b>	<b>0 - 0,38</b>
	1,5	0 - 103	0 - 0,52
	2	0 - 119	0 - 0,65

☼	Pressure bar	Flow-rate l/h	Diametre m
max. adjustment by approx. 20 clicks	<b>1</b>	<b>0 - 85</b>	<b>0 - 0,5</b>
	1,5	0 - 103	0 - 0,6
	2	0 - 119	0 - 0,8



**Adjustable dripper**

Ref.	description
<b>INM200916</b>	Drip, 4,5 mm barb
<b>INM200904</b>	Drip, spike

Turbulent flow dripper, flow-rate adjustable by key rotation from 0 to 6lh at 1.0 bar pressure. The flow rate can be increased or decreased until zero.

**Functions and technical characteristics**

- Made of anti-UV stabilized polypropylene
- Height:127 mm, spike model
- Width: 51 mm , spike model
- Height: 17 mm barb model
- Width: 51 mm barb model
- Ideal for irrigating plants in gardens and orchards, small or large pots.

💧	Pressure bar	Flow-rate l/h
<b>6 l/h regulation at 1 bara</b>	0,5	0 - 4,1
	0,75	0 - 5,1
	<b>1</b>	<b>0 - 6,0</b>
	1,25	0 - 6,8
	1,5	0 - 7,5



**Inverted roto jet**

Ref.	description
<b>INM201125</b>	360° insert, threaded

Mini-sprinkler for inverted irrigation, frame with robust "C" structure, during rotation the spinner is supported between two bearings with cover that protects the lower bearing from dust.

**Functions and technical characteristics**

- Made of acetal and UV-resistant nylon
- Outlet hole 1.3 mm.
- Height: 41 mm
- Width: 33 mm
- Depth: 12 mm
- Ideal for greenhouses and nurseries, seedbeds, cooling systems and microclimates.

●	green base hole 1,3	tested h 0.8 m from the ground	tested h 2 m from the ground	
Pressure bar	Flow-rate l/h	Diametre m	Diametre m	
	<b>1</b>	<b>60</b>	<b>4,2</b>	<b>5,7</b>
	1,5	74	4,5	6,1
	2	86	4,8	6,5



**Adjustable Vortex**

Ref.	description
<b>INM200045</b>	360° 4,5 mm barb
<b>INM200064</b>	360° spike

It generates a vortex jet that evenly distributes the water on the surface of the ground. The simple rotation of the head allows to set the flow and throw at the same time.

**Functions and technical characteristics**

- Made of anti-UV stabilized polypropylene
- Height: 152 mm, spike model
- Width: 42 mm , spike model
- Height: 24 mm barb model
- Width: 20 mm barb model
- Ideal for watering small or large pots, tall trees in flower beds and green areas.

☼	Pressure bar	Flow-rate l/h	Diametre m
max. adjustment by approx. 14 clicks	<b>1</b>	<b>0 - 52</b>	<b>0 - 1,7</b>
	1,5	0 - 65	0 - 2,8
	2	0 - 74	0 - 3,4



**Adjustable roto jet**

Ref.	description
<b>INM201404</b>	360° insert, threaded

Micro sprinkler with a knob for simultaneous adjustment of flow-rate and throw, the robust "C" frame allows for excellent uniformity of water distribution.

**Functions and technical characteristics**

- Made of acetal and UV-resistant nylon
- Output hole 1.5 mm
- Height: 53 mm
- Width: 33 mm
- Depth: 23 mm
- Ideal for large flower beds, agricultural applications and shrub areas.

●	yellow base hole 1,5	tested h 0.2 m from the ground	H jet m	
Pressure bar	Flow-rate l/h	Diametre m	H jet m	
	<b>1</b>	<b>0 - 77</b>	<b>0 - 6,3</b>	<b>0 - 0,4</b>
	1,5	0 - 94	0 - 7,2	0 - 0,4
	2	0 - 105	0 - 7,9	0 - 0,4



Micro spray	
Ref.	description
INM101186	90° threaded insert
INM101196	180° threaded insert
INM101206	360° threaded insert
INM101216	Strip threaded insert

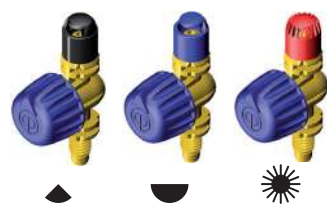
Micro sprayers with "uniform and proportionate" precipitation rate the bases with flaps are easy and quick to install by hand without the need for tools.

**Functions and technical characteristics**

- Made of stabilized anti-UV acetal
- "Fast" 4.5 mm threaded connection
- Height: 26 mm
- Width: 16.2 mm
- Depth: 7.7 mm
- Ideal for general irrigation of green recessed areas and flower beds

Tested h 0.2 m from the ground										
pressure	90° 1 mm hole		180° 1.4 mm hole		360° 1.9 mm hole		strip 1.4 mm hole		P	R
	P	R	P	R	P	R	P	R		
bar	l/h	m	l/h	m	l/h	m	l/h	m		
0,5	21	1,2	43	1,4	85	2,8	43	2,9		
<b>1</b>	<b>29</b>	<b>1,4</b>	<b>60</b>	<b>1,6</b>	<b>117</b>	<b>3</b>	<b>60</b>	<b>3,2</b>		
1,5	35	1,5	75	1,7	143	3,2	75	3,5		

P=flow-rate , R=radius



Adjustable spray jet	
Ref.	description
INM200085	90° threaded insert
INM200105	180° threaded insert
INM200125	360° threaded insert

Adjustable micro sprayers, the rotation of the valve's knob allows for the simultaneous adjustment of the flow-rate and throw, spray jet and 18 streams at 360°.

**Functions and technical characteristics**

- Made of stabilized anti-UV acetal
- Threaded connection 10-32 UNF
- Height: 38 mm
- Width: 22 mm
- Depth: 15 mm
- Ideal for garden irrigation, green patchwork areas and flower beds

Tested h 0.5 m from the ground	Yellow base				
	pressure	flow-rate	radius	radius	diameter
	bar	l/h	m	m	m
0,5	0 - 54	0 - 1,5	0 - 1,4	0 - 5	
<b>1</b>	<b>0 - 77</b>	<b>0 - 2,1</b>	<b>0 - 2</b>	<b>0 - 5,8</b>	
1,5	0 - 94	0 - 2,6	0 - 2,3	0 - 6,4	
2	0 - 105	0 - 3	0 - 2,8	0 - 7	
2,5	0 - 119	0 - 3,3	0 - 3	0 - 7,5	



Adjustable spray jet on spike	
Ref.	description
INM200372	90° on spike
INM200382	180° on spike
INM200392	360° on spike

Adjustable micro sprayers on spike, the rotation of the valve's knob allows for the simultaneous adjustment of the flow-rate and throw, spray jet and 18 streams at 360°.

**Functions and technical characteristics**

- Made of acetal and anti-UV polypropylene
- 4.5 mm insert connection
- Height: 400 mm
- Width: 25.2mm
- Depth: 17 mm
- The vertical rigid tube used with the spike can be raised or lowered in the spike to adapt to the height of the plants to be irrigated

Tested h 0.5 m from the ground	Yellow base				
	pressure	flow-rate	radius	radius	diameter
	bar	l/h	m	m	m
0,5	0 - 58	0 - 1,7	0 - 1,9	0 - 5	
<b>1</b>	<b>0 - 82</b>	<b>0 - 2,5</b>	<b>0 - 2,3</b>	<b>0 - 6,8</b>	
1,5	0 - 101	0 - 2,9	0 - 2,7	0 - 7,9	
2	0 - 117	0 - 3,2	0 - 3	0 - 8,2	
2,5	0 - 130	0 - 3,5	0 - 3,3	0 - 8,4	



Adjustable mist	
Ref.	description
INM201485	360° threaded mist

Adjustable micro sprayers. The rotation of the valve's knob allows for the simultaneous adjustment of the flow-rate and the 360° fog spray.

**Functions and technical characteristics**

- Made of stabilized anti-UV material
- Threaded connection 10-32 UNF
- Height: 38 mm
- Width: 22 mm
- Depth: 15 mm

tested h 0.5 m from the ground	pressure	flow-rate	diameter
	bar	l/h	m
	0,5	0 - 9	0 - 0,4
	<b>1</b>	<b>0 - 13</b>	<b>0 - 0,5</b>
	1,5	0 - 15	0 - 0,5
	2	0 - 16	0 - 0,5
	2,5	0 - 18	0 - 0,5



Insert fittings	
Ref.	description
INM100406	insert adaptor 4.5mm
INM100696	threaded adaptor 4.5mm barb
INM100716	fast threaded adaptor
INM100425	insert elbow 4.5mm
INM100445	insert tee 4.5 mm
INM100802	insert plug 4.5 mm
INM100675	insert cross 4.5mm

Insert microfittings 4.5mm and thread for the connection of pipes and sprinklers.

**Functions and technical characteristics**

- Made of anti-UV stabilized material
- Insert and thread 4.5 mm. Use of micropipe with 4 mm ID



Ratchet clamps	
Ref.	description
INM101336	ratchet clamp 16-18 mm
INM104536	ratchet clamp + insert 16-18 mm

Ratchet clamps to fix the 16-18 mm pipe to the insert fittings; the model with self-punching insert is suitable for a quick connection between the 16-18 mm pipe and the ID 4 mm micropipe.

**Functions and technical characteristics**

- Made of anti-UV stabilized material
- Ratchet clamp 16-18 mm
- Special 16-18 clamps and pipe key puncher with 4.5mm insert



Rods and stakes	
Ref.	description
<b>IZPDL2000N160</b>	spike for dripline (picture 1)
<b>INM200836</b>	rigid rod 20 cm (picture 3)
<b>INM200846</b>	rigid rod 30 cm (picture 3)
<b>INM200856</b>	rigid rod 45 cm (picture 3)
<b>INM100464</b>	rod holder (picture 2)

Very resistant stakes for the professional installation of pipes or driplines of 16 mm. Vertical rigid rods used to lift the sprinklers above the plant foliage.

**Functions and technical characteristics**

- Spike made of polypropylene, black, designed to fix 16 mm driplines and pipes to the ground (picture 1)
- Spike with support for rod (not supplied) ideal for gardens and flower beds, made of polypropylene, height 310 mm (picture 2)
- Rigid polypropylene rods with 4.5mm "Fast" threaded adaptor. heights of rods: 200, 300 or 450 mm (picture 3)



Adaptor	
Ref.	description
<b>INM102094</b>	adaptor 1/2" F x 4,5mm F
<b>INM203954</b>	adaptor 1/2" F x 4,5mm M

Adaptors for the connection of tubes and tap microsprinklers and fittings with 1/2" male thread.

**Functions and technical characteristics**

- 1/2 "F NPT threaded polypropylene adaptor with self-threading fitting for male threaded "Fast" and 10-32 UNF emitters (picture1)
- Acetal adaptor with free nut, threaded 1/2 "F NPT with insert connection for easy connection to pipes and micro-sprayers (picture 2)



Key punch	
Ref.	description
<b>INM101934</b>	universal key punch

The universal key punch allows the installation and removal of microfittings and micro sprayers of 4.5mm diameter.

**Functions and technical characteristics**

- Made of stabilized anti-UV acetal.
- For 4.5 mm insert connections.
- Height 57 mm.
- Width 28 mm.
- Depth 12 mm.



Self-locking fittings	
Ref.	description
<b>IEE0100M160</b>	sleeve 16 x 16 mm
<b>IEE0200M16C</b>	male adaptor 16 x 3/4"
<b>IEE0300M160</b>	plug 16 x 16 mm
<b>IEE0300M16C</b>	swivel female adaptor 16x3/4"
<b>IEE0400M160</b>	elbow 16 x 16 mm
<b>IEE0500M16C</b>	male elbow 16 x 3/4"
<b>IEE0600M160</b>	tee 16 x 16 mm
<b>IEE0700M16C</b>	tee 16 x 3/4"M x 16 mm

Safe-tight fittings with brown self-locking nut for connection of driplines and pipes in PN4 and PN6.

**Functions and technical characteristics**

- Made of anti-UV stabilized material
- Brown nut and body
- Compression nut for PN4 ø 16 mm pipes
- Ideal for low pressure irrigation systems such as private gardens, greenhouses and vegetable gardens



Valves	
Ref.	description
<b>IVE2000N160</b>	valve 16 x 16 mm
<b>IVE2100N16C</b>	male valve 16 x 3/4"

In line valves for the sectioning of a drip system part, connections with nut for 16 mm PN4 pipe.

**Functions and technical characteristics**

- Made of anti-UV stabilized material
- Cylinder valves with practical and handy lever
- Compression nut for ø 16 mm PN4 pipes
- Ideal for low pressure irrigation systems such as private gardens, greenhouses and vegetable gardens



Microvalves	
Ref.	description
<b>INM200965</b>	"fast" thread microvalve
<b>INM200865</b>	4,5mm insert microvalve

In line valves for the sectioning of a part of the drip irrigation system, with nut connections, 4.5mm insert and "Fast insert".

**Functions and technical characteristics**

- Made of anti-UV stabilized material
- Micro valves with flow control knob
- Connection for microtubes with 4 mm inside
- Ideal in micro irrigation systems where flow control is required



**standard pipe cutter**

<b>Ref.</b>	
<b>IITTE402E</b>	16-42 mm stainless steel blade aluminium

Standard pipe cutter with aluminium body and stainless-steel blade HRC 52-58

**Functions and technical characteristics**

- Quick and precise cutting
- It facilitates the insertion of the pipe in the compression fittings
- Ratchet operation
- Safety hook
- For PVC and PE pipes up to 42 mm
- Packaged in blisters with barcode



**professional pipe cutter**

<b>Ref.</b>	
<b>IITTP428</b>	16-42 mm stainless steel blade aluminium
<b>IITTP430</b>	16-64 mm stainless steel blade aluminium

Professional pipe cutter for intensive and continuous use, with aluminum body and stainless steel blade HRC52-58

**Functions and technical characteristics**

- Quick and precise cutting
- It facilitates the insertion of the pipe in the compression fittings
- Anti-slip handle
- Ratchet operation
- Safety hook
- For PVC and PE pipes up to 42 or 64 mm
- Packaged in blisters with barcode



**pipe cutter for small diameters**

<b>Ref.</b>	
<b>IITTE404J</b>	20 mm pipe cutter

Pipe cutter for tubes and driplines with ABS body and steel blade

**Functions and technical characteristics**

- Quick and precise cutting
- Ideal for tubes, driplines and anti torsion pipe
- Spring return
- Safety hook
- For PVC and PE pipes up to 20 mm



**drip-clip for dripper installation**

<b>Ref.</b>	
<b>IIPDR00000000</b>	clip tool for drippers

Drip-clip tool allows a simple, quick and leak-free installation. It allows to perform, in two steps, the hole and the positioning of the dripper

**Functions and technical characteristics**

- For drippers from 16 to 23 mm ø
- For installation on 16 and 20 mm PE pipes
- It does not require knowledge or training
- It can be used for installing self-punching drippers

	Brand	Standard	Description	Organization	Certificate n°
System		UNI EN ISO 9001:2015	Quality management system	IIP / CISQ	964
		UNI EN ISO 14001:2015	Environmental management system	IIP / CISQ	174
		UE 952/2013	Authorized Economic Operator	Italian Customs Agency	IT AEOF 16 1155

	Paese	Brand	Standard	Description	Organization	Certificate n°
Product	ITALY		UNI 9561:2006	Connecto™ +Ultra	IIP	1430
			ISO 9261:2004	Dripline Mono™ - Rootguard Mono™ - Tandem™ - Rootguard Tandem™	IIP	1441 - 1442
		Dripline Multibar™ C- Rootguard Multibar™ C		IIP	1441 - 1442	
		Dripline D5™		IIP	1442	
		Dripline Junior™		IIP	1441 - 1442	
		Dripline P1®	IIP	1442		
	GERMANY		DLG SIGNUM TEST	Dripline Mono™ 2,1lph	DLG	5509
				Dripline Multibar™ 1,6lph	DLG	5508
				Dripline P1® 1,1lph	DLG	5506
				Dripline Tape 0,9lph	DLG	5507
	SOUTH AFRICA		SANS 14236:2003	Connecto™ +Ultra	SABS	8357/13262
					JASWIC	1624/1
	SWITZERLAND		TPW 157	Connecto™ +Ultra	SVGW	1103-K 298
	AUSTRALIA		AS/NZS 4129:2008	Connecto™ +Ultra	SAI GLOBAL	WMKA21524
	ENGLAND		BS 6920-2.1:2000	Connecto™ +Ultra	WRAS	1712054
	ISRAEL		IS 5283	Connecto™	SII	36526
	RUSSIA		Various	Sanitary certificate	GOST	3258336
				Connecto™ - Connecto™ Plus - Threaded fittings	GOST	1119040
				Plastic accessories	GOST	1260161
				Dripline Multibar™ - P1® - P1® Rootguard - Rootguard - i-Tape	GOST	0998860
POLAND		Various	Connecto™ PN10 - Connecto™ +Ultra PN16 - Clamp saddles	ITB	AT-15-7862/2016	
			Sanitary certificate	-	HK.W.0091.01.2015	
HUNGARY		Various	Connecto™ PN10 - Connecto™ +Ultra PN16 - Clamp saddles	EMI	A 705/2009	
UKRAINE	-	-	Sanitary certificate	-	58960	
	-	Various	All	-	UA1.170.0087539-12	







## Turf irrigation catalog 2019

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