

Системы автополива, оросительные ленты HIRRO TARE 6, TARE 10, TARE 16, системы капельного полива HIRRO DRIP 11, DRIP 16, DRIP 23

Технические характеристики

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Hirro tape

This system was developed with the intention of securing food production in desert conditions, but to the superior characteristics, it is accepted in all climate zones. These tubes provide reliable and steady water delivery directly to the root zone of the plants with accurate dosing and minimal water consumption. Since each litre of water delivered to the plant's costs, these systems provide multiple savings to the end-user. Less water consumption means a larger area irrigated with the same amount of water,

- Less water mean fewer energy bills at the pump,
- Water delivery directly to the root zone of the plants means slower development of weeds that receive less water than alternative systems.
- The possibility of fertilizers, pesticides and herbicides delivery through the system diminishes the need for machinery usage.



Hirro drip

With hotter summers, crop irrigation is becoming a necessary precondition for any kind of serious production. Therefore, we have introduced irrigation drip system pipes in our production. This system is developed with the intention of securing food production in desert conditions but accepted in all climate zones, thanks to the superior characteristics. These pipes provide reliable and steady water delivery directly to the root zone of the plants with accurate dosing and minimal water consumption. Since each litre of water delivered to the plant's costs, these systems provide multiple savings to the end-user:

- Less water consumption means a larger area irrigated with the same amount of water,
- Less water means fewer energy bills at the pump,
- Water delivery directly to the root zone of the plants mean slower development of weeds that receives less water than alternative systems.
- The possibility of fertilizers, pesticides and herbicides delivery through the system diminishes the need for machinery usage.



Hirro drip HD

Asymmetrical, non-compensating flat dripper with positioned filtration provides maximum provides superior flow rate and high clogging resistance.

- Constructions without overlap for great tape pressure resistance.
- Design and production technologies guarantee a high level of accuracy in the development of filter parts and a high level of protection against clogging.
- Precisely drilled holes using laser technology.
- Extremely low coefficient of variation (CV) provides high usage uniformity.
- Clearly visible white lines for better tape positioning.
- High crack and stretch resistance.
- It is available in different wall thickness, emitter spacing and flow.
- Solid material, resistant to abrasion, reduces soil degradation.
- Easy installation, thanks to versatility and reliability.
- Production and quality control are in accordance with the international standard EN ISO 9261:2011.



HIRRO TAPE





IRRIGATION TAPE WITH CONTINUOUS LABYRINTH

hirro[®]tape

Design of continuous labyrinth provides a high degree of resistance to clogging and longer use of the system, and therefore the more rational use of water. A special system of design of a tape with constant labyrinths provides superior performance and uniformity of emitters.



- Seamless construction for greater reliability
- Precisely shaped emitters for high uniformity of flow
- Double water filtration through the 110 properly positioned points
- Micro precise slits eliminates blockages on the startup and prevents from root intrusion
- The turbulent flow-path design provides high degree of resistance to clogging
- Available in a wide range of wall thicknesses, outlet spacings and flow rates
- Clearly visible blue ribbons for better recognition and indicators emitters
- High resistance to tensile and cracking
- Strong material resistant to abrasion reduces land damages
- Thanks to the versatility and reliability it is easy to install and reduces your work time
- The production of the system and its quality is in accordance with DIN EN ISO 9261:2011.

TECHNICAL DATA

DIAMETER [Ø]	WALL THICKNESS	INNER DIAMETER [ID]	OUTER DIAMETER [OD]	OPERATING PRESSURE	PRESSURE OF WASHING	MINIMAL FILTRATION
16mm	6mil [150mic]	16,1mm	16,4mm	0.7bar	1.2bar	100mic / 150mesh
16mm	8mil [200mic]	16,1mm	16,5mm	0.7bar	1.7bar	100mic / 150mesh
16mm	10mil [250mic]	16,1mm	16,6mm	0.7bar	2.1bar	100mic / 150mesh
16mm	12mil [300mic]	16,1mm	16,7mm	0.7bar	2.4bar	100mic / 150mesh



FILTRATION

Double-filtration of water through 110 properly positioned points.



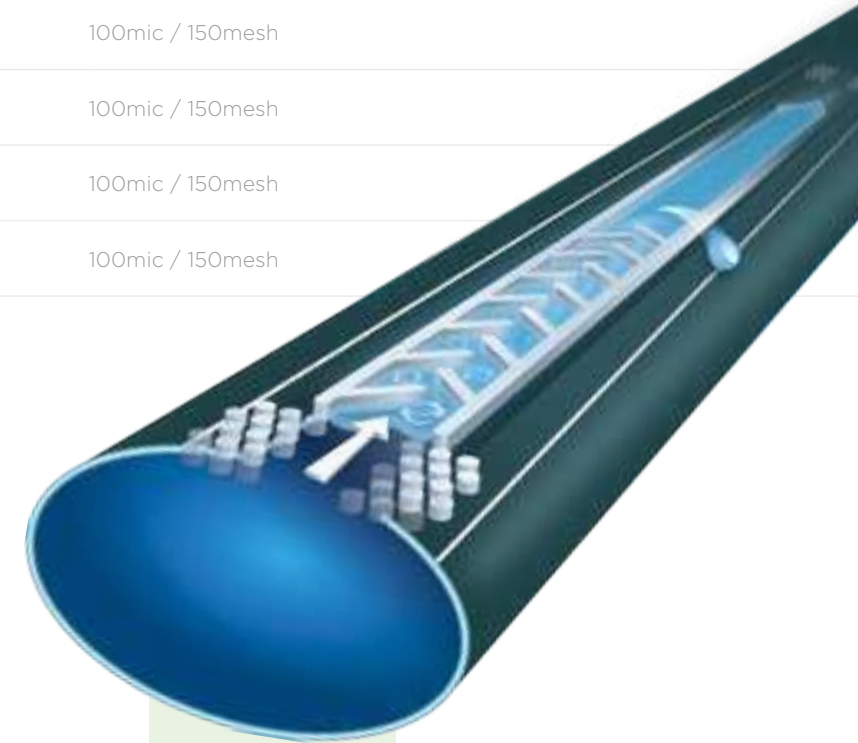
LABYRINTH

Constant labyrinth of flow control



WATER OUTPUT

Micro-precise slit



98%
UNIFORMITY
GARANTED

LENGTH OF THE APPLICATION OF THE HIRRO® TAPE (in meters)

Depending of the uniformity of the field with a constant pressure of 0.7 bar for pipe diameters Ø16.

EMITTER FLOW RATE	UNIFORMITY	10CM	15CM	20CM	30CM	40CM
0,6 L/h	90%	140m	180m	210m	268m	320m
	85%	170m	220m	260m	335m	400m
1,0 L/h	90%	100m	125m	150m	190m	225m
	85%	125m	160m	185m	235m	280m
1,5 L/h	90%	35m	45m	50m	65m	80m
	85%	75m	95m	115m	150m	180m

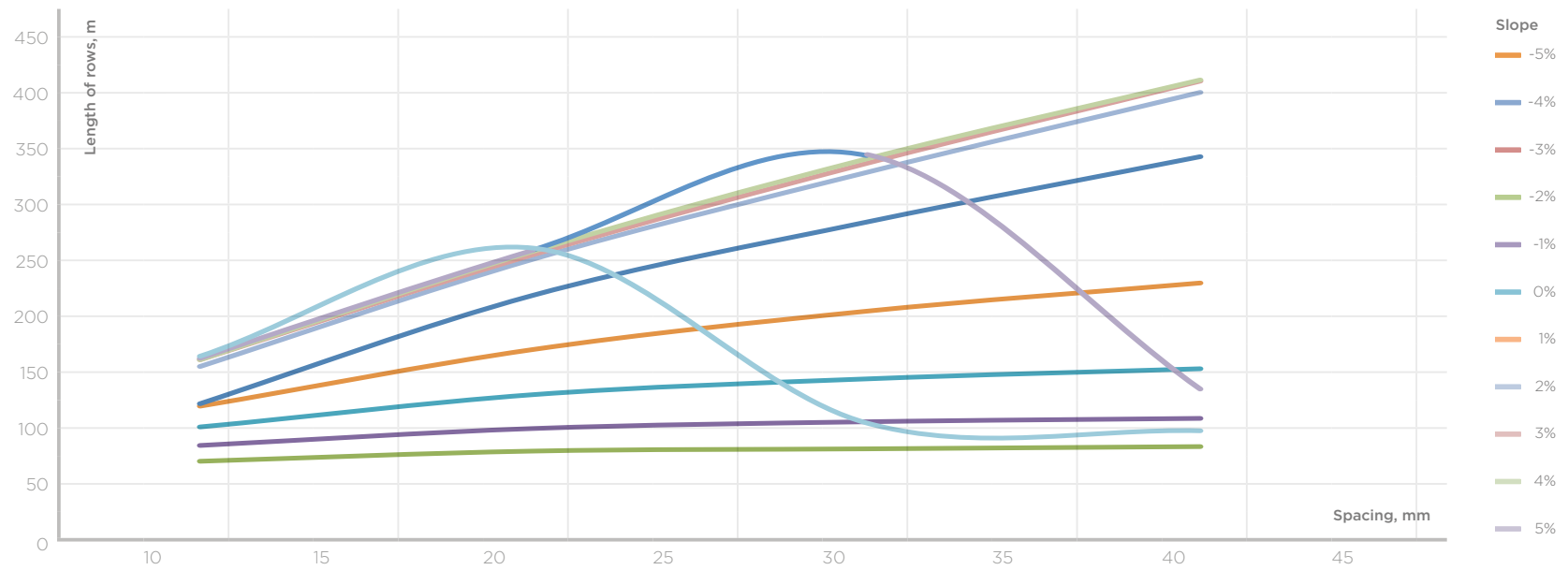
Use and selection

In this time of water and resource conservation, drip irrigation is very important. It is cheaper to install this system than traditional irrigation systems and it uses much less water.

Light- walled products are for short season crops, for soil without rocks. Medium wall thickness products are for general use in longer-term crops and average soil conditions. Heavy wall-thickness products are designed for rocky soils, when insects can damage stripes or for more than one season.

Length of the row depending on the emitter spacing

The terrain inclination from -5% to +5%, 85% uniformity of flow, working pressure of 0.7 bar, 16mm ID





hirro[®]tape - product range

The table shows the characteristics of the wall thickness of 0.15 mm and 0.20 mm with spacing of emitters to 10cm, 20cm and 30cm. There is a possibility of making tape with a special purpose wall thickness as well as special purpose space emitters.

CODE	PRODUCT DESCRIPTION	INNER DIAMETER [ID]	WALL THICKNESS [MIL/MIC]	EMITTER SPACING	FLOW L/EMITTER	FLOW L/METER	COIL LENGTH
16060610	Hirro [®] Tape 6	16mm	6mil [150mic]	10cm	0,6l/h	6l/h/m	3000m
16060615	Hirro [®] Tape 6	16mm	6mil [150mic]	15cm	0,6l/h	4l/h/m	3000m
16060620	Hirro [®] Tape 6	16mm	6mil [150mic]	20cm	0,6l/h	3l/h/m	3000m
16060630	Hirro [®] Tape 6	16mm	6mil [150mic]	30cm	0,6l/h	2l/h/m	3000m
16080610	Hirro [®] Tape 6	16mm	8mil [200mic]	10cm	0,6l/h	6l/h/m	2500m
16080615	Hirro [®] Tape 6	16mm	6mil [150mic]	15cm	0,6l/h	4l/h/m	3000m
16080620	Hirro [®] Tape 6	16mm	8mil [200mic]	20cm	0,6l/h	3l/h/m	2500m
16080630	Hirro [®] Tape 6	16mm	8mil [200mic]	30cm	0,6l/h	2l/h/m	2500m
16061010	Hirro [®] Tape 10	16mm	6mil [150mic]	10cm	1,0l/h	10l/h/m	3000m
16061015	Hirro [®] Tape 10	16mm	6mil [150mic]	15cm	1,0l/h	6,5l/h/m	3000m
16061020	Hirro [®] Tape 10	16mm	6mil [150mic]	20cm	1,0l/h	5l/h/m	3000m
16061030	Hirro [®] Tape 10	16mm	6mil [150mic]	30cm	1,0l/h	3,5l/h/m	3000m
16081010	Hirro [®] Tape 10	16mm	8mil [200mic]	10cm	1,0l/h	10l/h/m	2500m
16081015	Hirro [®] Tape 10	16mm	8mil [200mic]	20cm	1,0l/h	6,5l/h/m	2500m
16081020	Hirro [®] Tape 10	16mm	8mil [200mic]	20cm	1,0l/h	5l/h/m	2500m
16081030	Hirro [®] Tape 10	16mm	8mil [200mic]	30cm	1,0l/h	3,5l/h/m	2500m
16061510	Hirro [®] Tape 15	16mm	6mil [150mic]	10cm	1,5l/h	15l/h/m	3000m
16061515	Hirro [®] Tape 15	16mm	6mil [150mic]	15cm	1,5l/h	10l/h/m	3000m
16061520	Hirro [®] Tape 15	16mm	6mil [150mic]	20cm	1,5l/h	7,5l/h/m	3000m
16061530	Hirro [®] Tape 15	16mm	6mil [150mic]	30cm	1,5l/h	5l/h/m	3000m
16081510	Hirro [®] Tape 15	16mm	8mil [200mic]	10cm	1,5l/h	15l/h/m	2500m
16081515	Hirro [®] Tape 15	16mm	8mil [200mic]	20cm	1,5l/h	10l/h/m	2500m
16081520	Hirro [®] Tape 15	16mm	8mil [200mic]	20cm	1,5l/h	7,5l/h/m	2500m
16081530	Hirro [®] Tape 15	16mm	8mil [200mic]	30cm	1,5l/h	5l/h/m	2500m



HIRRO DRIP





IRRIGATION TAPE WITH FLAT DRIPPERS

hirro[®]drip

Dripper with double positioned filtration provides maximum protection against clogging. The largest filtration area on the market , positioned on the entire dripper length.

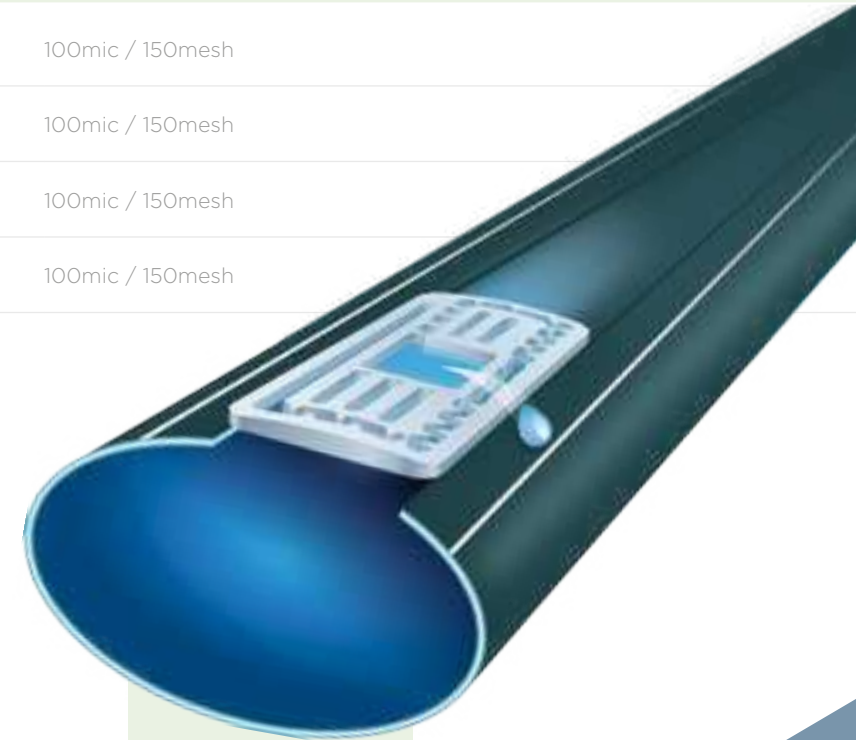
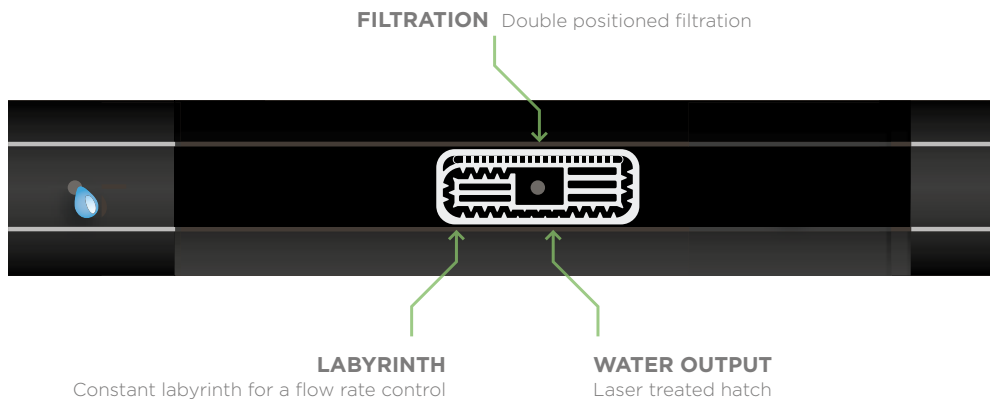


- Construction without overlap for greater resistance to the pressures of tape
- Design and production technologies guarantee a high level of accuracy in the development of the filter part and a high level of protection against clogging
- Precisely drilled holes using laser technology
- Extremely low coefficient of variation (CV) provides high uniformity in the use of

- Clearly visible white lines for better positioning of setting of a tape
- High resistance to cracking and stretching
- It is available in different wall thickness, emitter spacing and flow
- Solid material, resistant to abrasion, reducing land degradation
- Easy installation thanks to the versatility and reliability
- Production and quality control are in accordance with the international standard EN ISO 9261:2011

TECHNICAL DATA

DIAMETER [Ø]	WALL THICKNESS	INNER DIAMETER [ID]	OUTER DIAMETER [OD]	OPERATING PRESSURE	PRESSURE OF WASHING	MINIMAL FILTRATION
16mm	6mil [150mic]	16,1mm	16,4mm	0.7bar	1.2bar	100mic / 150mesh
16mm	8mil [200mic]	16,1mm	16,5mm	0.7bar	1.7bar	100mic / 150mesh
16mm	10mil [250mic]	16,1mm	16,6mm	0.7bar	2.1bar	100mic / 150mesh
16mm	12mil [300mic]	16,1mm	16,7mm	0.7bar	2.4bar	100mic / 150mesh



3D TECH

Three-dimensional position transmitters input filtering allows a better acceptance of water.

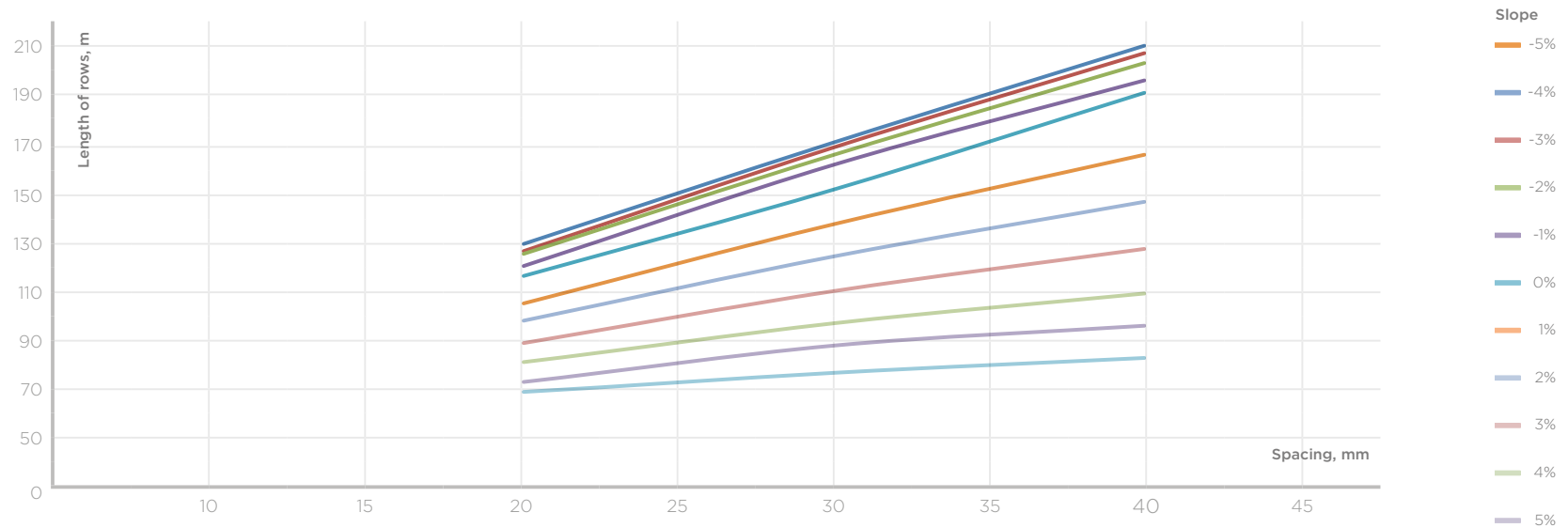
LENGTH OF THE APPLICATION OF THE HIRRO® DRIP (in meters)

Depending of the uniformity of the field with a constant pressure of 0.7 bar for pipe diameters Ø16.

DRIPPER FLOW RATE	UNIFORMITY	20CM	30CM	40CM
1,1 L/h	90%	138m	180m	216m
	85%	170m	222m	267m
1,6 L/h	90%	110m	140m	170m
	85%	135m	175m	210m
2,3 L/h	90%	86m	112m	135m
	85%	107m	139m	167m
3,0 L/h	90%	79m	100m	120m
	85%	98m	123m	150m
3,8 L/h	90%	63m	82m	98m
	85%	78m	101m	122m

Length of the row depending on the emitter spacing

The terrain inclination from -5% to +5%, 85% uniformity of flow, working pressure of 0.7 bar, 16mm ID





hirro°drip - product range

The table shows the characteristics of a wall thickness of 0.15 mm and 0.20 mm and the spacing of the emitters 20cm, 30cm and 40cm. There is a possibility of making tape with a special purpose wall thickness as well as special purpose space emitters.

CODE	PRODUCT DESCRIPTION	INNER DIAMETER [ID]	WALL THICKNESS [MIL/MIC]	EMITTER SPACING	FLOW L/EMITTER	FLOW L/METER	COIL LENGTH
16061120	Hirro° Drip 11	16mm	6mil [150mic]	20cm	1,1l/h	5,5l/h/m	3000m
16061130	Hirro° Drip 11	16mm	6mil [150mic]	30cm	1,1l/h	3,7l/h/m	3000m
16081120	Hirro° Drip 11	16mm	8mil [200mic]	20cm	1,1l/h	5,5l/h/m	2500m
16081130	Hirro° Drip 11	16mm	8mil [200mic]	30cm	1,1l/h	3,7l/h/m	2500m
16061620	Hirro° Drip 16	16mm	6mil [150mic]	20cm	1,6l/h	8l/h/m	3000m
16061630	Hirro° Drip 16	16mm	6mil [150mic]	30cm	1,6l/h	5l/h/m	3000m
16081620	Hirro° Drip 16	16mm	8mil [200mic]	20cm	1,6l/h	8l/h/m	2500m
16081630	Hirro° Drip 16	16mm	8mil [200mic]	30cm	1,6l/h	5l/h/m	2500m
16062320	Hirro° Drip 23	16mm	6mil [150mic]	20cm	2,3l/h	11,5l/h/m	3000m
16062330	Hirro° Drip 23	16mm	6mil [150mic]	30cm	2,3l/h	7,5l/h/m	3000m
16082320	Hirro° Drip 23	16mm	8mil [200mic]	20cm	2,3l/h	11,5l/h/m	2500m
16082330	Hirro° Drip 23	16mm	8mil [200mic]	30cm	2,3l/h	7,5l/h/m	2500m
-	Hirro° Drip 30	16mm	6mil [150mic]	20cm	3,0l/h	15l/h/m	3000m
-	Hirro° Drip 30	16mm	6mil [150mic]	30cm	3,0l/h	10L/h/m	3000m
-	Hirro° Drip 30	16mm	8mil [200mic]	20cm	3,0l/h	15l/h/m	2500m
-	Hirro° Drip 30	16mm	8mil [200mic]	30cm	3,0l/h	10L/h/m	2500m
-	Hirro° drip 38	16mm	6mil [150mic]	20cm	3,8lph	19lph	3000m
-	Hirro° drip 38	16mm	6mil [150mic]	30cm	3,8lph	12,5lph	3000m
-	Hirro° drip 38	16mm	8mil [200mic]	20cm	3,8lph	19lph	2500m
-	Hirro° drip 38	16mm	8mil [200mic]	30cm	3,8lph	12,5lph	2500m

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