CYLINDRICAL DRIPLINE

The integral driplines AGRIPLASTIC in polyethylene represents one of the most advanced product in the field of irrigation, for its dual-side delivery of each dripper (brand DUAL), for the long lasting and for its simplicity in the installation and maintenance.
The tools for the distribution of the water are cylindrical drippers endowed with a filter in the inlet of the water, a self cleaning turbulent labyrinth, incorporated and welded in the polyethylene pipe during the extrusion, inserted with predefined spacing. The Dual driplines do not have parts sticking out or joints, they have low pressure lost, are very resistant to round rubbing, to mechanical strain and are reusable for more than one season.
The wide range of models is able to satisfy all needs:
- no pressure compensating for flat grounds or with slight slopes.
- pressure compensating for grounds with steep slopes or for long distances.
- the mini series for economic advantages.

Le ali gocciolanti integrali AGRIPLASTIC in polietilene rappresentano uno dei prodotti più apprezzati nell'irrigazione a goccia, per la loro erogazione bilaterale (marchio DUAL®), per le durevoli prestazioni di funzionamento e per la semplicità di installazione e manutenzione.
Gli organi per la distribuzione dell'acqua sono costituiti da gocciolatori cilindrici dotati di filtro in ingresso e labirinto a flusso turbolento autopulente, incorporati e saldati nel tubo in polietilene durante l'estrusione, con spaziature predefinite. Le driplines DUAL® risultano senza sporgenze o giunzioni, con scarsissime perdite di carico, molto resistenti agli sfregamenti sul terreno, alle sollecitazioni meccaniche e riutilizzabili per più stagioni irrigue.
L'ampia gamma di modelli è inoltre in grado di soddisfare le diverse esigenze:
- a portata variabile per terreni pianeggianti o in leggera pendenza.
- pressure compensating per terreni acclivi o lunghe distanze.
- serie Mini per il vantaggio economico.

ADVANTAGES "Dual System" - *VANTAGGI "Dual System"*

- More reliable and greater resistance to clogging when used for long periods.
  Maggiore affidabilità di funzionamento e maggiore durata nel tempo contro i rischi di occlusione.
- Complete emptying at the end of the irrigation cycle, reducing the risk of biological clogging.
  Svuotamento completo a fine ciclo irriguo con conseguente minor rischio di biocclusione.
- Increase of the irrigated surface area.
  Aumento della superficie irrigata.
- Reduction of percolation on pipe.
  Riduzione della percolazione sul tubo.

MODELS - *MODELLI*

	MODEL	TYPE	DIAMETER mm	FLOW RATE 1 bar	WORK PRESSURE
NON COMPENSATING	Dual Standard	16/2	16	2,1	0,5 - 3,0
	Dual Standard	16/4	16	4,0	0,5 - 3,0
	Dual Standard	16/8	16	8,0	0,5 - 3,0
	Dual Standard	20/2	20	2,1	0,5 - 3,0
	Dual Standard	20/4	20	4,0	0,5 - 3,0
	Dual Standard	20/8	20	8,0	0,5 - 3,0
	Dual Mini 35 mil	16/2 M35	16	2,1	0,5 - 2,0
	Dual Mini 35 mil	16/4 M35	16	4,0	0,5 - 2,0
	Dual Mini 44 mil	16/2 M44	16	2,1	0,5 - 3,0
	Dual Mini 44 mil	16/4 M44	16	4,0	0,5 - 3,0
	Dual Mini 44 mil	20/2 M44 (*)	16	2,1	0,5 - 2,0
PC	Pressure Compensating	16/2 PC	16	2,0	0,5 - 3,0
	Pressure Compensating	16/4 PC	16	4,0	0,5 - 3,0
	Pressure Compensating	20/2 PC	20	2,0	0,5 - 3,0
	Pressure Compensating	20/4 PC	20	4,0	0,5 - 3,0

(*) In progress

STANDARD SPACING(*)

cm.

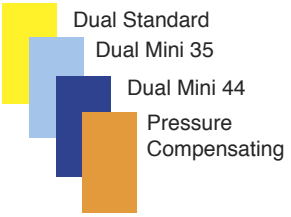
15 20 25 30 33 35 40 50 60 70 75 80 90 100 110 125 150

(*) Other spacings only on request Su richiesta sono disponibili spaziature non comprese in tabella

PACKAGING - CONFEZIONI

	ROLL - ROTOLO							
DIAMETER	Lenght Lungh. m	Ext Diameter cm	Int Diameter cm	Width Largh cm	Volume mc	Capacity per Pallet 113x113		Capacity no pallet Container 40 ft
						Rolls	h (m)	m
16 mm	25	50	38	10	0,025	100	2,0	
	50	56	38	10	0.031	88	2,0	
	100	56	38	20	0.063	48	2,0	
	200	73	38	20	0.107	28	2,0	
	400	78	38	32	0,205	10	2,0	150,000
20 mm	300	78	38	32	0.220	10	2,0	90.000

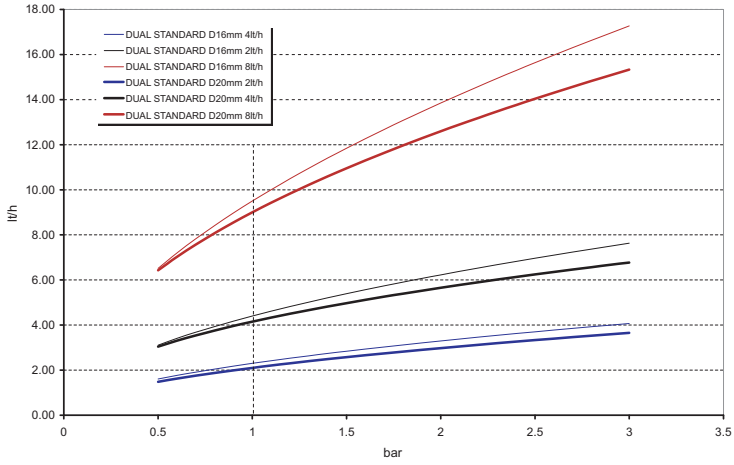
LABELS COLOUR



Tube colour standard **black**, brown on request. Dripper colour: Dual Standard e Mini 35/44 2l=h light blue, **4l/h black**, 8l/h grey/brown - PC various colours
Colore tubo standard **nero**, marrone su richiesta. Colore dripper: Dual Standard e Mini 35/44 2l=h azzurro, **4l/h nero**, 8l/h grigio/marrone - PC colori vari

Dual Standard

FLOW PRESSURE CURVE - RECOMMENDED DISTANCES
CURVA PORTATA - PRESSIONE E DISTANZE CONSIGLIATE



Uniformity of emission rate: category A in accordance to the norm ISO 9261.
Flow rate q_n (1 bar) and coef. variation CV:

Type	16/2	16/4	16/8	20/2	20/4	20/8
q_n	2,30	4,40	9,50	2,10	4,15	9,00
CV %	2,30	2,03	3,70	2,52	2,15	4,20

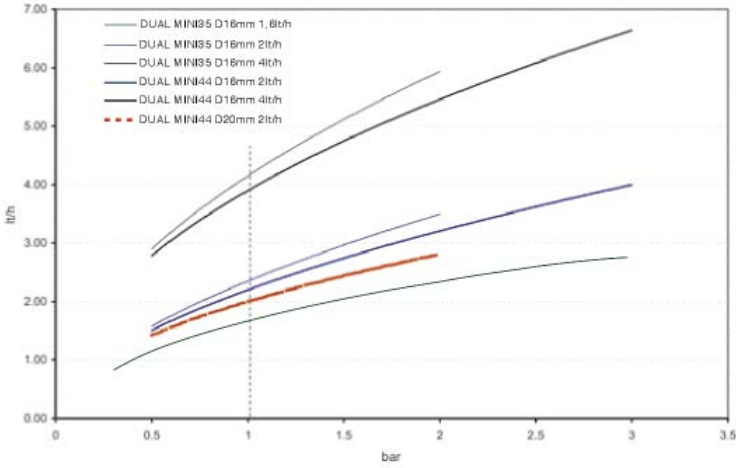
DUAL STANDARD EU=10%, P=1.2 bar, 0% slope

D	Q	SPACING												
mm	l/h	15	20	25	30	33	40	50	60	70	80	100	120	150
16	2,0	50	60	70	79	84	95	110	125	138	151	175	198	230
16	4,0	33	40	47	53	56	64	74	84	93	102	118	133	154
16	8,0	20	24	28	32	34	38	44	50	55	61	70	79	92
20	2,0	80	97	112	127	135	154	178	201	223	244	283	319	370
20	4,0	53	64	74	84	89	101	118	133	147	161	187	211	245
20	8,0	31	38	44	50	53	60	70	79	87	95	111	125	145

Filtraggio consigliato 120 microns
Filtrations system suggested of 120 micron

Dual Mini 35

Dual Mini 44



Uniformity of emission rate: category A in accordance to the norm ISO 9261.
Flow rate q_n (1 bar) and coef. variation CV:

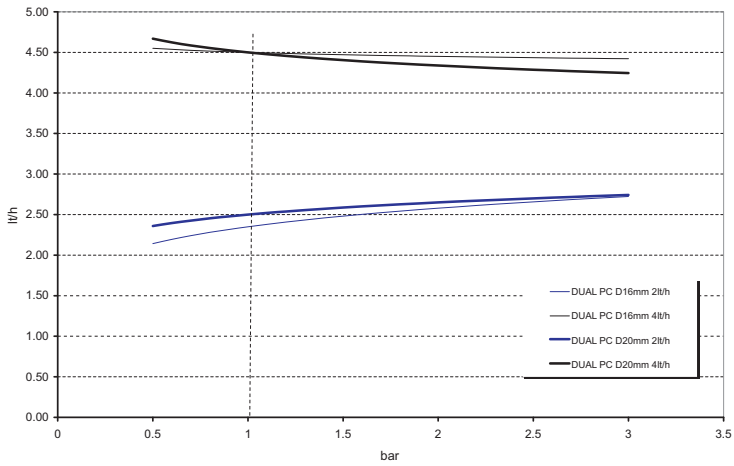
Type	16/2-M35	16/4-M35	16/2-M44	16/4-M44	20/2-M44
q_n	2,35	4,15	2,20	3,90	2,00
CV %	3,97	4,52	5,74	3,49	

DUAL MINI 35/44 EU=10%, P=1.2 bar, 0% slope

D	Q	SPACING												
mm	l/h	15	20	25	30	33	40	50	60	70	80	100	120	150
16 35	1,6	62	75	87	98	104	119	137	155	172	188	218	246	285
16 35	2,0	46	56	65	73	78	89	103	117	129	141	164	185	215
16 35	4,0	33	40	47	53	56	64	74	84	93	101	118	133	154
16 44	2,0	49	60	69	78	83	95	110	124	138	151	175	197	229
16 44	4,0	35	43	50	56	60	68	79	89	99	108	126	142	165
20 44	2,0	81	98	114	128	137	155	180	204	226	247	286	323	375

Filtraggio consigliato 120 microns
Filtrations system suggested of 120 micron

Pressure Compensating



Uniformity of emission rate: category A in accordance to the norm ISO 9261.
Flow rate q_n (1 bar) and coef. variation CV:

Type	16/2 PC	16/4 PC	20/2 PC	20/4 PC
q_n	2,35	4,50	2,50	4,50
CV %	2,49	4,89	2,57	5,15

PC EU=90% P=3 bar I= 0% slope

D	Q	SPACING												
mm	l/h	15	20	25	30	33	40	50	60	70	80	100	120	150
16	2,0	63	76	89	102	109	125	147	169	191	212	256	303	382
16	4,0	36	43	51	58	62	71	83	95	107	118	142	166	204
20	2,0	88	108	126	143	153	176	208	238	269	299	362	428	540
20	4,0	56	69	80	91	98	112	131	150	169	188	225	263	324

*EU: Emission Uniformity calculated with the Keller-Karmeli equation

$$EU = 100\left(1-1.27\frac{CV}{\sqrt{n}}\right)\frac{Q_{min}}{Q_{med}}$$

CV = Coefficient of technological variation n = Number of drippers
Q_{min} = Mimimum flow rate (l/h) Q_{med} = Medium flow rate (l/h)

The flow rate of the drippers is garantee also in presence of one hole.
La portata del gocciolatore è garantita anche in presenza di un solo foro di erogazione.