

Performance statistics

Use these tables to calculate the output volume for your delivery head (height from pump to collection tank) that would be delivered by drive tubes with 100mm or 150mm diameter used in conjunction with our seven bore sizes.

Drop	Delivery head vs outputs in litres per day, using a 100mm diameter drive tube																Flow		
	5M	10M	20M	35M	50M	75M	100M	150M	200M										
1.8M				g	17,000	e	10,300	d	7,450	c	4,950	c	3,750	b	2,500	a	1,850	5.5l/s	
1.6M			g	25,000	f	14,400	e	9,100	d	6,400	c	4,300	b	3,200	b	2,200	a	1,600	5.0L/S
1.4M			g	21,000	f	12,200	d	7,650	c	5,350	c	3,650	b	2,650	a	1,700	a	1,350	5.0L/S
1.2M			g	19,200	e	10,300	d	6,350	c	4,450	b	3,000	b	2,300	a	1,450	a	1,100	4.5L/S
1.0M	g	21,000	f	15,200	d	8,500	c	4,800	c	3,400	b	2,200	a	1,700	a	1,150	a	800	4.5L/S
0.8M	g	16,000	e	9,300	c	5,400	c	3,350	a	2,150	a	1,400	a	1,100	a	650			4.0L/S
0.6M	f	12,400	d	6,450	c	3,250	a	1,800	a	1,300	a	850	a	600					4.0L/S
0.4M	c	4,300	b	2,300	a	1,150	a	650											3.5L/S

Drop	Delivery head vs outputs in litres per day, using a 150mm diameter drive tube																Flow		
	5M	10M	20M	35M	50M	75M	100M	150M	200M										
1.6M				g	20,000	f	12,000	e	8,500	d	6,200	c	4,700	b	3,150	b	2,350	8.0L/s	
1.4M				g	17,000	e	10,000	d	7,500	c	5,200	c	3,900	b	2,600	b	2,000	7.0L/S	
1.2M			G	23,000	f	14,500	e	8,600	d	6,700	c	4,500	b	3,350	b	2,250	a	1,700	7.0L/S
1.0M	g	24,000	G	19,000	e	11,200	d	7,100	c	4,950	b	3,350	b	2,500	a	1,600	a	1,250	6.0L/S
0.8M	g	18,900	F	13,000	d	7,200	c	4,150	b	2,900	b	1,900	a	1,450	a	1,000	a	700	5.5L/S
0.6M	f	13,950	D	7,800	c	4,150	b	2,350	a	1,600	a	1,100	a	800	a	550			5.0L/S
0.4M	d	6,480	B	3,400	a	1,700	a	1,000	a	650									4.5L/S
0.3M	b	2,430	A	1,250	a	650													

Bore diameters	
a = 35mm	E = 86mm
b = 48mm	F = 98mm
c = 60mm	G = 124mm
d = 73mm	

How to use this table:

Say you have measured the drop in your stream to be one metre, and you need to pump water to a height of 75 metres to your tank. Using a 100mm drive tube and piston bore "b" with a 48mm diameter, your pump output would be 2,200 litres of water a day. If you use a 150mm drive tube and the same bore size your output would increase to 3,350 litres.

Definitions:

"Delivery head": The vertical height from the pump up to the storage tank.

"Drive tube" (or "drive pipe"): The pipe that brings water into the first pressure chamber.

"Drop": the vertical height that the water falls before flowing into the pipe.

"Bore": The piston bore.