

Keraflo 'Aylesbury' Float Valve Flow Rate and Pipe Velocity Chart

{-----Available KB Type Only-----}

Flow Pressure BAR	FLOW RATE FOR NOMINAL INCH (mm) VALVE SIZE AT STATED FLOW PRESSURE																			
	½"		¾"		1"		1¼"		1½"SF		1½"HF		2" SF		2" HF*		2½"SF*		3"RB*	
	{15}	v 15	{20}	v 22	{25}	v 28	{32}	v 35	{40SF}	v 42	{40HF}	v 42	{50SF}	v 54	{50HF}	v 54	{65SF}	v 67	{80RB}	v 76.1
	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s	l/s	m/s
0.05	0.06	0.41	0.09	0.28	0.18	0.33	0.27	0.33	0.27	0.22	0.64	0.52	0.67	0.32	1.21	0.58	1.27	0.39	1.34	0.31
0.10	0.08	0.58	0.13	0.39	0.25	0.47	0.38	0.46	0.38	0.31	0.90	0.73	0.95	0.45	1.71	0.82	1.80	0.55	1.90	0.45
0.25	0.13	0.91	0.20	0.62	0.40	0.74	0.61	0.73	0.61	0.49	1.43	1.16	1.50	0.72	2.70	1.29	2.85	0.87	3.00	0.70
0.50	0.19	1.29	0.28	0.88	0.56	1.04	0.86	1.03	0.86	0.70	2.02	1.64	2.12	1.02	3.82	1.83	4.03	1.23	4.25	1.00
1.00	0.26	1.82	0.40	1.24	0.79	1.47	1.22	1.46	1.22	0.99	2.85	2.32	3.00	1.44	5.40	2.58	5.70	1.74	6.00	1.41
1.50	0.32	2.23	0.49	1.52	0.97	1.80	1.49	1.79	1.49	1.21	3.49	2.84	3.68	1.76	6.62	3.17	6.98	2.13	7.35	1.72
2.00	0.37	2.58	0.56	1.75	1.12	2.08	1.72	2.06	1.72	1.40	4.03	3.28	4.25	2.03	7.64	3.65	8.06	2.46	8.49	1.99
3.00	0.46	3.16	0.69	2.15	1.38	2.55	2.11	2.52	2.11	1.71	4.94	4.01	5.20	2.49	9.36	4.48	9.88	3.01	10.40	2.44
4.00	0.53	3.64	0.79	2.48	1.59	2.95	2.43	2.92	2.43	1.98	5.70	4.63	6.00	2.87	10.81	5.17	11.40	3.48	12.01	2.82
5.00	0.59	4.07	0.89	2.77	1.78	3.29	2.72	3.26	2.72	2.21	6.38	5.18	6.71	3.21	12.08	5.78	12.75	3.89	13.43	3.15
6.00	0.65	4.46	0.97	3.04	1.95	3.61	2.98	3.57	2.98	2.42	6.99	5.67	7.35	3.52	13.24	6.33	13.97	4.26	14.71	3.45
8.00	0.75	5.15	1.12	3.51	2.25	4.17	3.44	4.12	3.44	2.79	8.07	6.55	8.49	4.06	15.29	7.31	16.13	4.92	16.98	3.98
10.00	0.84	5.76	1.26	3.92	2.51	4.66	3.85	4.61	3.85	3.12	9.02	7.32	9.49	4.54	17.09	8.17	18.03	5.50	18.99	4.45
Kv m³/hr	0.95		1.43		2.86		4.38		4.38		10.27		10.81		19.46		20.53		21.62	

Conversion Factors	
Litres per second to cubic metres per hour	x 3.6
Litres per second to cubic metres per minute	x 0.06
Litres per second to gallons per hour	x 791.9
Litres per second to gallons per minute	x 13.2
Pressure:- Bar to pounds per square inch	x 14.5
Bar to Pascal	x 100,000
Bar to metres	x 10.2

KEY	
v	velocity of water flowing in corresponding copper pipe (mm) at stated flow rate.
	velocity < 2 m/s
	velocity > 2 m/s < 3 m/s
	velocity > 3 m/s
SF	Standard flow.
HF	High flow. Recommended for pumped systems.
RB	Reduced bore.

Notes: Computed flow rates based on flow area with resistance coefficient of 130 (as per BS1212).
Higher flow rates available (cost option) for 15, 20 & 25 mm valves. Suitable for low pressure applications.
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