

Keraflo Flow Rate Chart

purewater.
storage ltd



Flow Pressure	FLOW RATE FOR NOMINAL INCH (mm) VALVE SIZE AT STATED FLOW PRESSURE																			
	1/2" {15}	v15	3/4" {20}	v22	1" {25}	v28	1 1/4" {32}	v35	1 1/2"SF {40SF}	v42	1 1/2"HF {40HF}	v42	2"SF {50SF}	v54	2"HF {50HF}	v54	2 1/2"SF {65SF}	v67	3"RB {80RB}	v76.1
BAR	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	0.55	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	0.62	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	0.65	0.56	1.04	0.86	1.03	0.86	0.70	2.02	1.64	2.12	1.02	3.82	1.63	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	1.60	1.49	1.79	1.49	1.21	3.49	2.64	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	5.2	2.49	9.36	4.46	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	5.16	6.71	3.21	12.08	5.76	12.75	3.69	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	3.96
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 m ³ /hr	0.95		1.43		2.86		4.38		4.38		10.27		10.81		19.46		20.53		21.62	

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.

CONVERSION FACTORS

Litres per second to cubic metres per hour x3.6

Litres per second to cubic metres per minute x0.06

Litres per second to gallons per hour x791.9

Litres per second to gallons per minute x13.2

Pressure: Bar to pounds per square inch x14.5
Bar to Pascal x100,000
Bar to metres x10.2

Aylesbury DZR Brass Valves are suitable for most cold water storage tanks. Aylesbury Stainless Steel Valves are especially designed for use with sea water, demineralised water, brine solutions, water treatment and process applications.

Please note the following:

- **RAISED VALVE CHAMBERS:** Use KB Types. K-Type valves are not normally suited for raised valve chambers.
- **OPERATING SPACE:** Check for sufficient clearance.
- **OVERFLOWING/WARNING PIPES:** Check the position of the overflow and warning pipe (where fitted).
- **TURBULENT WATER:** Exceptionally turbulent waters, eg: cooling towers, should be avoided directly beneath the float. Calming measures such as baffle plates, still ponds etc. should be implemented.
- **FLANGED TANKS:** The design of Aylesbury valves allows sufficient clearance between the float and most internal tank flanges and ribs. The tail backnuts may be adjusted to clear larger flanges, provided a minimum of 20mm is observed between the float and tank wall throughout the arc of the float.
- **ROUND TANKS:** Contact Keraflo for detailed information.
- **SLOPING TANK WALL:** The wall to which the Aylesbury valve is to be attached must be vertical. If the wall around the fixing hole is sloped, tapered washers must be used. These are generally available from the tank supplier.
- **PIPEWORK SUPPORT:** Aylesbury valves create virtually no tank wall stress. Additional pipework support is therefore unnecessary provided the Code of Practice for the support of pipework in general is met.
- **SERVICE VALVE:** In the UK a servicing valve must be fitted as near as is reasonably practicable to any float operated valve. A service valve incorporating a particle strainer is highly recommended. These are available direct from Keraflo Ltd.