pure water storage ltd

Making water storage easy since 2002

Keraflo flow rate chart

KERAFLO®

Standard valves

FLOW RATE FOR NOMINAL INCH (mm) VALVE SIZE AT STATED FLOW PRESSURE

Flow Pressure	K TYPE		K, KAX & KB TYPE						KB TYPE		K, KAX & KB TYPE				K, KAX & KB TYPE (K & KAX TYPE special order only)					
	½" {15}	v15	¾" {20}	v22	1" {25}	v28	1¼" {32}	v35	1½"SF {40SF}	v42	1½"HF {40HF}	v42	2"SF {50SF}	v54	2"HF {50HF}	v54	2½"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 m³/hr	0.95		1.43		2.86		4.38		4.38		1027		10.81		1946		2053		21.62	

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		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		x13.2
Pressure:	Bar to pounds per square inch	x 14.5
	Bar to pascal	x 100,000
	Bar to metres	x 10.2

Aylesbury DZR Brass Valves are suitable for most cold water storage tanks. Aylesbury Stainless steel valves are especially designed for use with sea water, de-mineralised Water, brine solutions. Water treatment and process applications.

Please note the following:

- Raised valve chambers: Use KB and KAX Types: (K-type valves are not normally suited for raised valve chambers).
- Operating space: Check for sufficient clearance.
- Overflowing/Warning pipes: Pipe (where fitted). Check the position of the overflow and warning.
- 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 back-nuts 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 from the tank supplier.
- Pipe work 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.

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