



DOSE-O-MAT Automatic Metering Valve

Model K/KA, KB/KBA

Volume based irrigation device, consisting of a water meter, a volume control dial and a valve all contained in a single unit.

Features:

- Simple to operate and maintain – just set it & forget about it.
- High accuracy.
- Rugged, heavy-duty construction.
- Immune to fluctuations in line pressure.
- Low loss of head.
- Up to 30% saving compared to time based irrigation.
- Wide variety of models & sizes – suitable for virtually all irrigation applications.
- Can function together with other units as part of an automatic, sequential irrigation system.

Description

The Dose-O-Mat line of automatic metering valves provides a reliable and economical solution for a wide variety of irrigation applications.

A variety of models and sizes are available to meet virtually any operational requirements and budget.

The desired quantity is set using the volume control dial, according to local crop and soil. It automatically closes the valve once the pre-set quantity of water has passed through the unit.

Dose-O-Mat units of sizes 1 1/2" and larger, contain hydraulic valves and may be installed either as single points of control or in groups that are operated in sequence.

Operation is extremely simple, it does not require neither skilled labor nor intensive training.

Technical Specifications

Maximum Working Temperature 60°C

Body K 3/4" - 1" plastic
All other models - cast iron

Connection K 3/4" - 3/4" BSPT male thread
K 1" - 1 BSPT male thread
K/KB 1 1/2" - 1 1/2" male thread with coupling
K/KB 2" - 2" male thread with coupling - Internal thread BSPT or NPT
KB 3" - Cast-iron flanges meeting BS 10, ISO, AWWA, JIS10.

Available Sizes

K/KB - Globe type: 3/4", 1", 1 1/2", 2", 3"

KA/KBA - Angle type: 2", 3"



ARAD

Irrigation & Agriculture meter
Hydrometer

► Dose-o-Mat

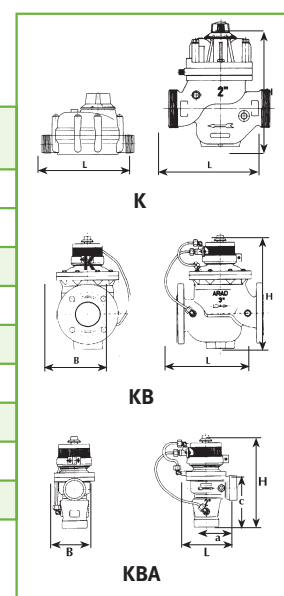
- └ K-KB
- Fertilizer
- Arad-o-Valve
- Accessories

⦿ Performance data:

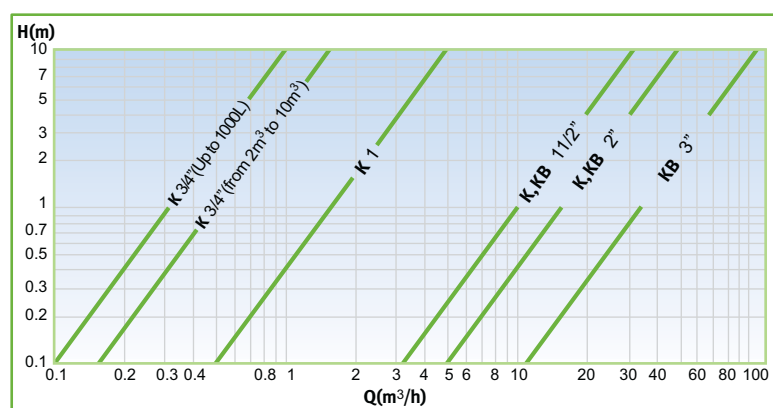
Model	Nominal Size (inch)	Maximum Working Pressure (bar)	Minimum Working Pressure (bar)	Qmax Maximum Flow Rate (m ³ /h)	Qmin Minimum Flow Rate (m ³ /h)	Regulated Flow Rate
K/KA	3/4"	10	0.5	-	-	±2%
	1"	8	0.5	5	0.5	
	1 1/2"	10	1	15	1.5	
	2"	10	1	30	2	
KB/KBA	1 1/2"	10	1.3	15	1.5	
	2"	10	1.3	30	2	
	3"	10	1.5	65	3	

⦿ Dimensions

Model	K				KA	KB			KBA		
Nominal size	(mm)	20	25	40	50	50	40	50	80	50	80
	(inch)	3/4	1	1 1/2	2	2	1 1/2	2	3	2	3
L - Length (mm)		130	200	160	190	158	160	190	285	190	240
H - Height (mm)		86	115	203	235	265	203	235	350	290	364
A - (mm)		-	-	-	-	96	-	-	-	97	140
C - (mm)		-	-	-	-	122	-	-	-	122	140
B - Width (mm)		102	90	126	126	126	126	126	200	126	205
Weight (kg)		0.3	0.5	2.3	4.4	4	2.9	4.7	30	4.5	19
Weight with couplings (kg)		-	-	3.3	5.8	5.4	3.9	6.1	-	-	-



⦿ Head Loss Curve



⦿ Standard Scales

Model	Scale															
	1 m ³	3 m ³	10 m ³	20 m ³	25 m ³	40 m ³	50 m ³	100 m ³	200 m ³	400 m ³	1,000 m ³	1,600 m ³	2,500 m ³	4,000 m ³	5,000 m ³	10,000 m ³
K 3/4" - Ginon	•															
K 1"	•	•	•			•										
K 1 1/2"		•	•	•		•	•									
K/KA 2"			•	•	•	•	•	•								
KB 1 1/2"			•	•		•	•									
KB/KBA 2"			•	•	•	•	•	•	•	•	•	•	•	•		
KB/KBA 3"			•	•		•	•	•	•	•	•	•	•	•		

* Other scales upon request.



ARAD

www.arad.co.il