

DOSE-O-MAT

Automatic Metering Valve - Model K/KA, KB/KBA

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.

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.



Available Sizes

K/KB - Globe type	3/4", 1", 1 1/2", 2", 3"
KA/KBA - Angle type	2", 3"

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.

DOSE-O-MAT

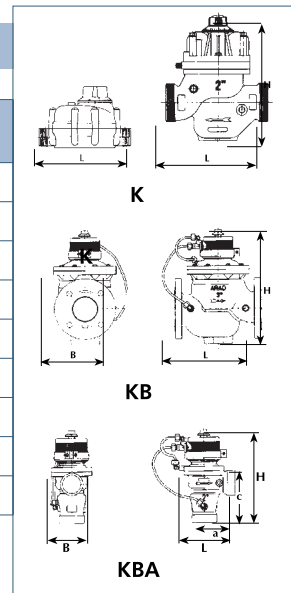
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Performance data

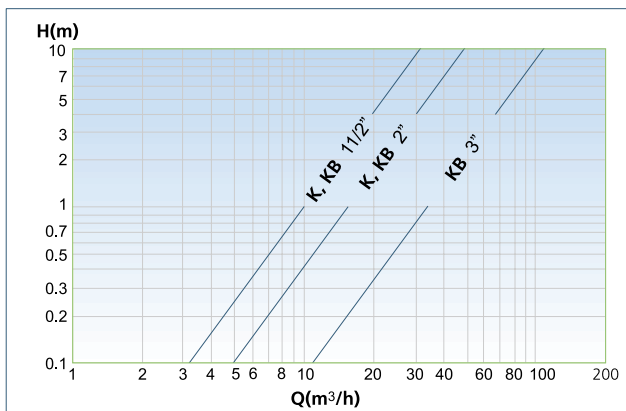
Model	Nominal Size (inch)	Maximum Working Pressure (bar)	Minimum Working Pressure (bar)	Qmax Maximum Flow Rate (m ³ /h)	Qmin Minimum Flow Rate (m ³ /h)	Regulated Flow Rate
K/KA	3/4"	10	0	-	-	±2%
	1"	8	0	5	0.5	
	1 1/2"	10	1	15	1.5	
	2"	10	1	30	2	
KB/KBA	1 1/2"	10	1.3	15	1.5	
	2"	10	1.3	30	2	
	3"	10	1.5	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"			•		•		•	•	•	•	•	•	•			