

Model K/KA, KB/KBA

DOSE-O-MAT Automatic Metering Valve



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



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 1½" 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.

Available Sizes

K/KB - Globe type: ¾", 1", 1½", 2"

KA/KBA - Angle type: 2"

Features

- Negligible head loss
- Simple maintenance
- Field replaceable measuring unit
- Hermetically sealed register with glass lens
- Bearings are constantly flushed during operation to eliminate deposit of solids

Technical Specifications

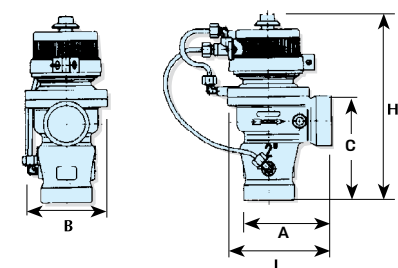
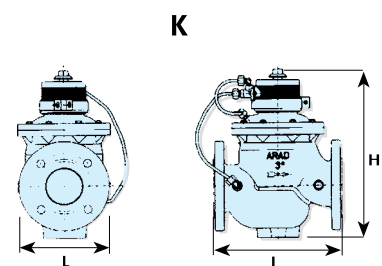
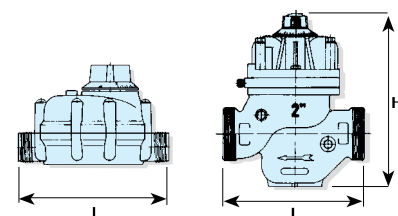
Maximum Working Temperature	60°C
Body	K ¾" - 1" plastic All other models - cast iron
Connection	K ¾" - ¾" BSPT male thread K 1" - 1 BSPT male thread K/KB 1½" - 1½" male thread with coupling K/KB 2" - 2" male thread with coupling - Internal thread BSPT or NPT

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DOSE-O-MAT Automatic Metering Valve

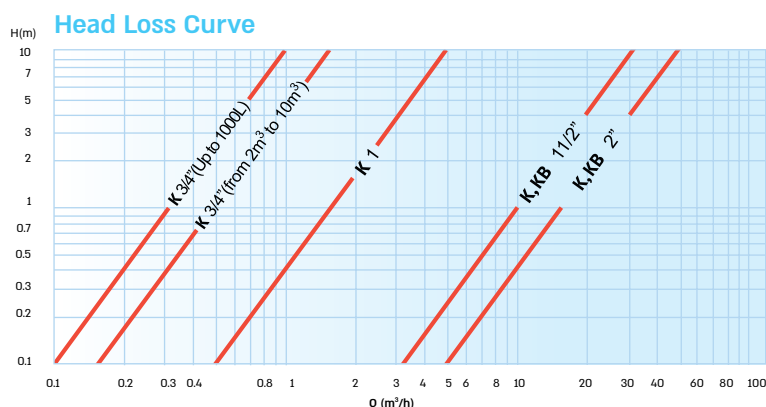
Dimensions

Model		K				KA	KB		KBA
Nominal size	(mm)	20	25	40	50	50	40	50	50
	(inch)	¾	1	1½	2	2	1½	2	2
L - Length without couplings (mm)		130	200	160	190	158	160	190	190
H - Height (mm)		86	115	203	235	265	203	235	290
A - (mm)		-	-	-	-	96	-	-	97
C - (mm)		-	-	-	-	122	-	-	122
B - Width (mm)		102	90	126	126	126	126	126	126
Weight (kg)		0.3	0.5	2.3	4.4	4	2.9	4.7	4.5
Weight with couplings (kg)		-	-	3.3	5.8	5.4	3.9	6.1	-



Performance data

Model	Nominal Size (inch)	Maximum Working Pressure (bar)	Minimum Working Pressure (bar)	Qmax Maximum Flow Rate (m³/h)	Qmin Minimum Flow Rate (m³/h)	Regulated Flow Rate
K/KA	¾"	10	0.5	1.5	0.08	±2%
	1"	8	0.5	5	0.5	
	1½"	10	1	15	1.5	
	2"	10	1	30	2	
KB/KBA	1½"	10	1.3	15	1.5	
	2"	10	1.3	30	2	



Standard Scales

Model \ Scale	Scale											
	m³	m³	m³	m³	m³	m³	m³	m³	m³	m³	m³	m³
1	1	3	10	20	25	40	50	100	200	400	1000	1600
3												
10												
20												
25												
40												
50												
100												
200												
400												
1000												
1600												
2500												
4000												
5000												
10000												

* Other scales upon request.

Installation Requirements

- The meter should be installed in horizontal position