

Irrigation & Agriculture



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 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.

• Available Sizes

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

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

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
- Optional electrical output: EV (Volume) or EF (Rate of Flow)
- Compatible with Dialog automatic reading system

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. |



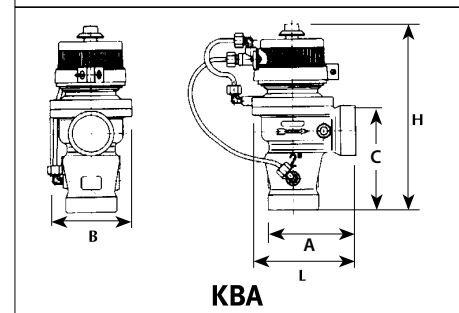
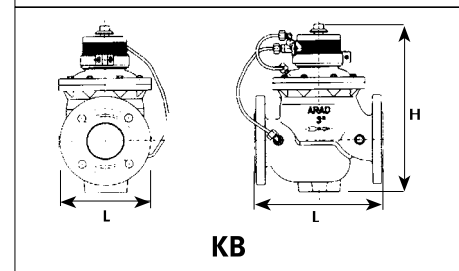
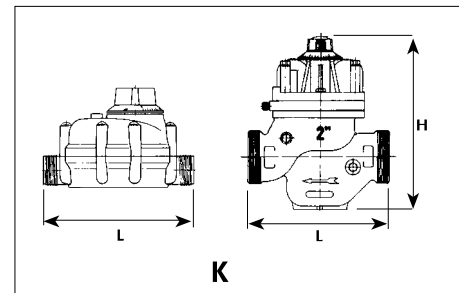
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Dimensions

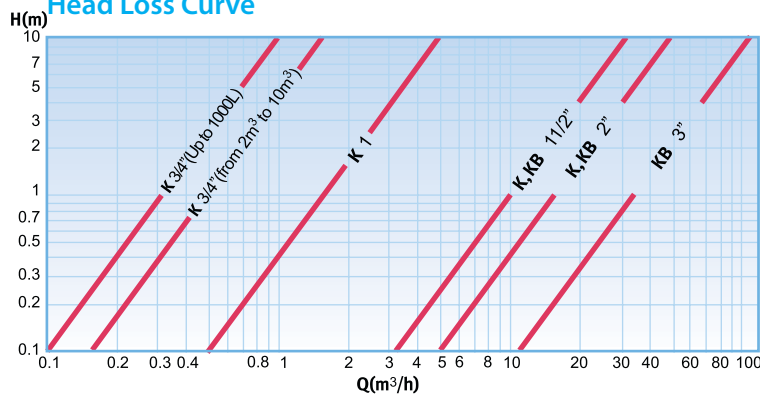
| Model | | K | | | | KA | KB | | | KBA | |
|-----------------------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Nominal size | (mm) | 20 | 25 | 40 | 50 | 50 | 40 | 50 | 80 | 50 | 80 |
| | (inch) | ¾ | 1 | 1½ | 2 | 2 | 1½ | 2 | 3 | 2 | 3 |
| L – Length without couplings (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 | - | - | - |



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 | - | - | ±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 | |
| | 3" | 10 | 1.5 | 65 | 3 | |

Head Loss Curve



Standard Scales

| Model | Scale | | | | | | | | | | | | | | | |
|--------------|-------|---|----|----|----|----|----|-----|-----|-----|------|------|------|------|------|-------|
| | 1 | 3 | 10 | 20 | 25 | 40 | 50 | 100 | 200 | 400 | 1000 | 1600 | 2500 | 4000 | 5000 | 10000 |
| K ¾" - Giron | ● | | | | | | | | | | | | | | | |
| K 1" | ● | ● | ● | | | | ● | | | | | | | | | |
| K 1½" | | ● | ● | ● | | | ● | ● | | | | | | | | |
| K/KA 2" | | | | ● | | ● | ● | ● | ● | | | | | | | |
| KB 1½" | | | ● | | ● | | ● | ● | | | | | | | | |
| KB/KBA 2" | | | ● | | ● | | ● | ● | ● | ● | ● | ● | ● | ● | | |
| KB/KBA 3" | | | ● | | ● | | ● | ● | ● | ● | ● | ● | ● | ● | | |

* Other scales upon request.

Installation Requirements

- The meter should be installed in horizontal position



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