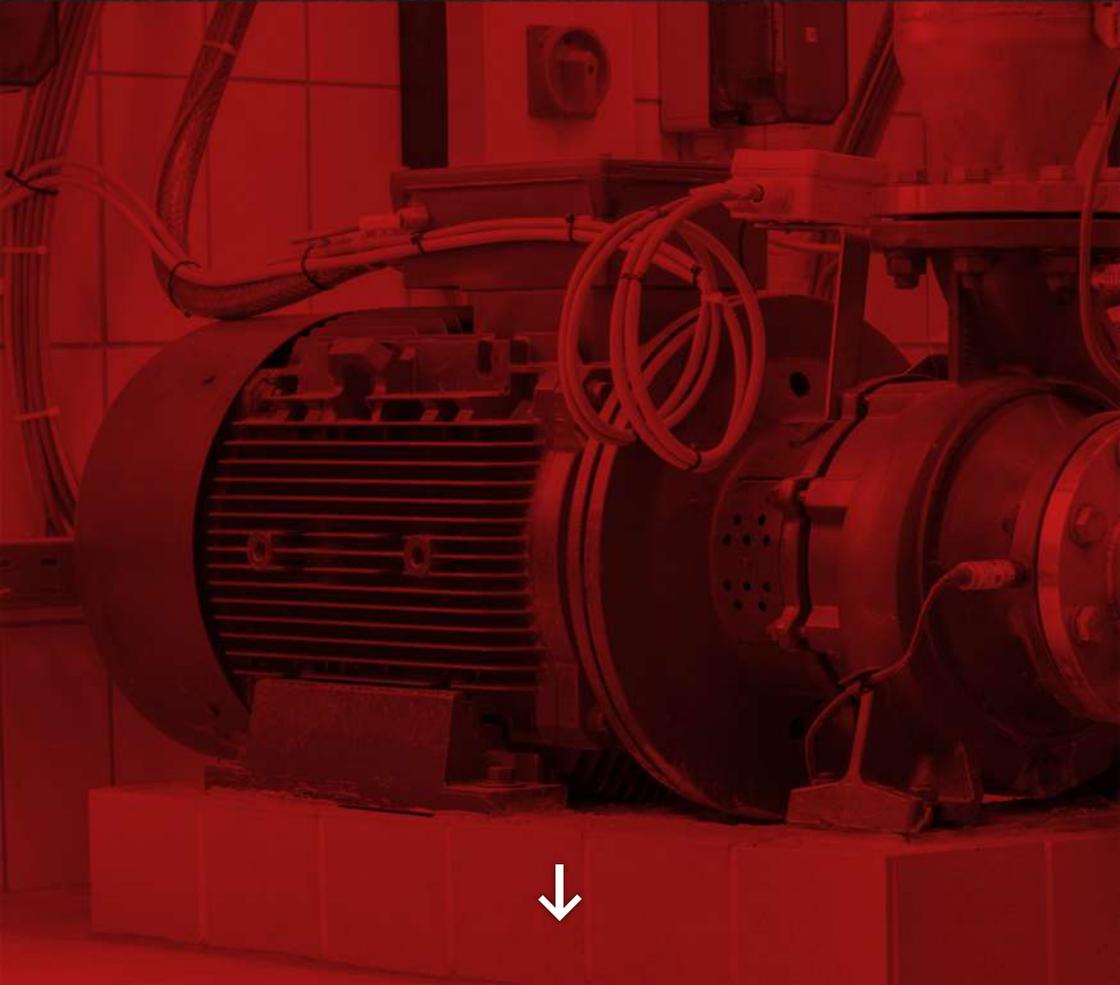




**PUMP VIJEH**  
Co. DOSIERTECHNIK

# **K METERING PUMPS SERIES**

## **PRODUCT BROCHURE**





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PRODUCT  
IMAGE



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## GENERAL INFORMATION

### - GENERAL

The gearbox is a standard worm wheel reduction system with all bearings supported within a fully lubricated gearbox. The mechanism for variation of the stroke length a positive stroke spring return that is operated by an eccentric.

K series Piston Dosing Pumps can be supplied in the following forms: Single Piston Dosing Pump type K Twin-headed piston Dosing Pump type ZK Single or two dosing heads of different sizes and output capacities varying between 2 and 40 lts/hr can be fitted. Advantages of a Piston Dosing Pump

- little dependency on back pressure
- linear dosage variation as a function of stroke length

The Dosing Pumps are therefore very suitable for high accuracy proportional dosing where the length of stroke is varied by means of remote control signal.

### - VERSIONS AVAILABLE

The single-head Dosing Pump can be supplied with the head on the left or right of the face of the dial, as required.

Left-hand version: K...L Symbol Standard

Right-hand version: K...R Symbol Standard

Twin-head Dosing Pumps have their dosing heads in parallel: Parallel layout: ZK... Symbol



## GENERAL INFORMATION

### **- DOSING HEAD:**

Dosing heads are supplied in plastic for max. 10 bar pressure and in stainless steel for up to 100 bar. The correct choice of dosing head is based on consideration of the nature of the chemical being dosed, its temperature and viscosity, and on the system pressure. Environmental factors (harsh operating conditions, radiant heat, etc.) may also be important. For duplex Dosing Pumps, the heads may be combined as required. If the head sizes are different, the larger one is always placed in front.

### **- STROKE ADJUSTMENT:**

Flow rate adjustment is possible while running or at standstill. The movement of the piston is based on a precise reciprocating gearbox, which provides an exact volumetric displacement. Stroke adjustment can be carried out Manually and electrically

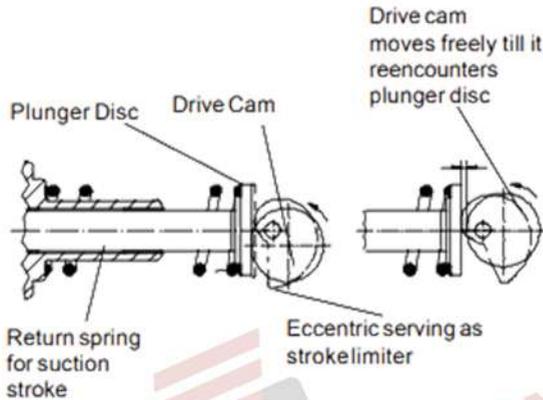
### **- DRIVE UNIT:**

The Drive Unit consists of an oil-lubricated worm drive with a single stage stepdown mechanism. The stroke is created by means of a drive cam which moves up and down a spring-loaded plunger to which the piston is affixed. The dosing stroke is induced by the thrust of the drive cam, the suction stroke by the return spring. Length of stroke is determined by means of a plunger return stop, with a manually adjustable eccentric serving as a stroke limiter. The length of stroke, by which the dosage is determined, can be adjusted manually whilst in operation on a linear scale of 0 -100 %. A manual adjustment facility is provided with the standard version.



## GENERAL INFORMATION

### - PERFORMANCE DIAGRAM



### - ABRASIVE MEDIA

Piston packings can be supplied in the form of Teflon/ silk packings and Aramid packings. The Teflon/silk packing is supplied as standard can be used with nearly all types of chemicals. Where abrasive agents are concerned it may be advisable to use Aramid-Keflar packing if the chemical employed allows. Aramid-Keflar is not resistant to concentrated acids or alkalis.

### - VALVES:

Suction and discharge valves can be supplied in the form of double-ball or spring-loaded single-ball valves. Spring-loaded valves are to be recommended if the chemical used has a viscosity of over 400mpas



**- INSTALLATION EXAMPLE:**

**Legend**

- 1. Dosing Pump K series**
- 2. Suction Pipeline**
- 3. Motor Mixer**
- 4. Solution Tank**
- 5. Relief Valve MB**
- 6. Isolating Valve**
- 7. Injection Valve/Fitting**
- 8. Pulsation Damper**
- 9. Control Box**

