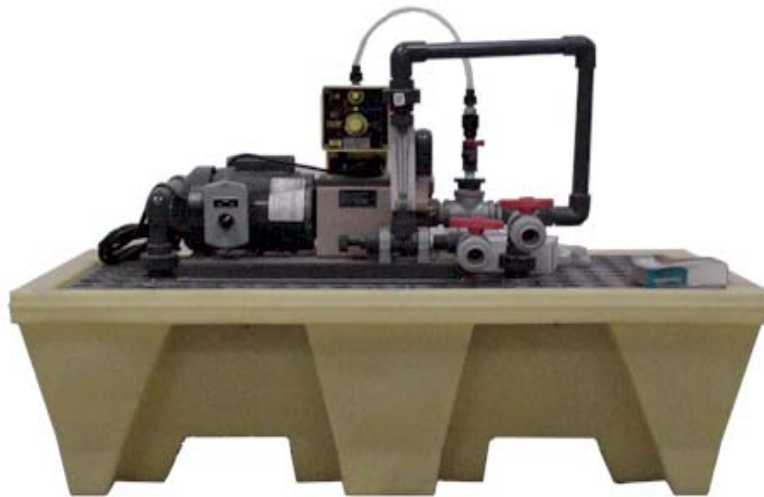




# Polymer Feed Systems

## Quality Control by Design

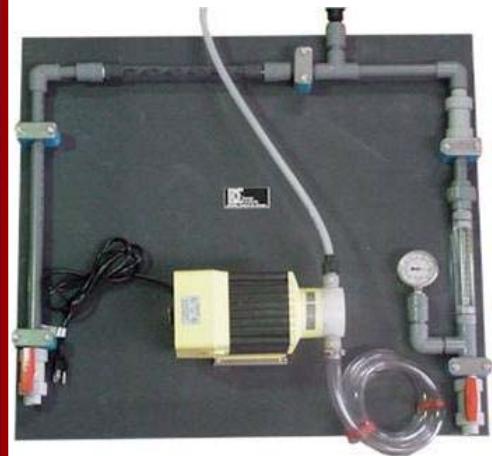
### DCS SERIES



### DS SERIES

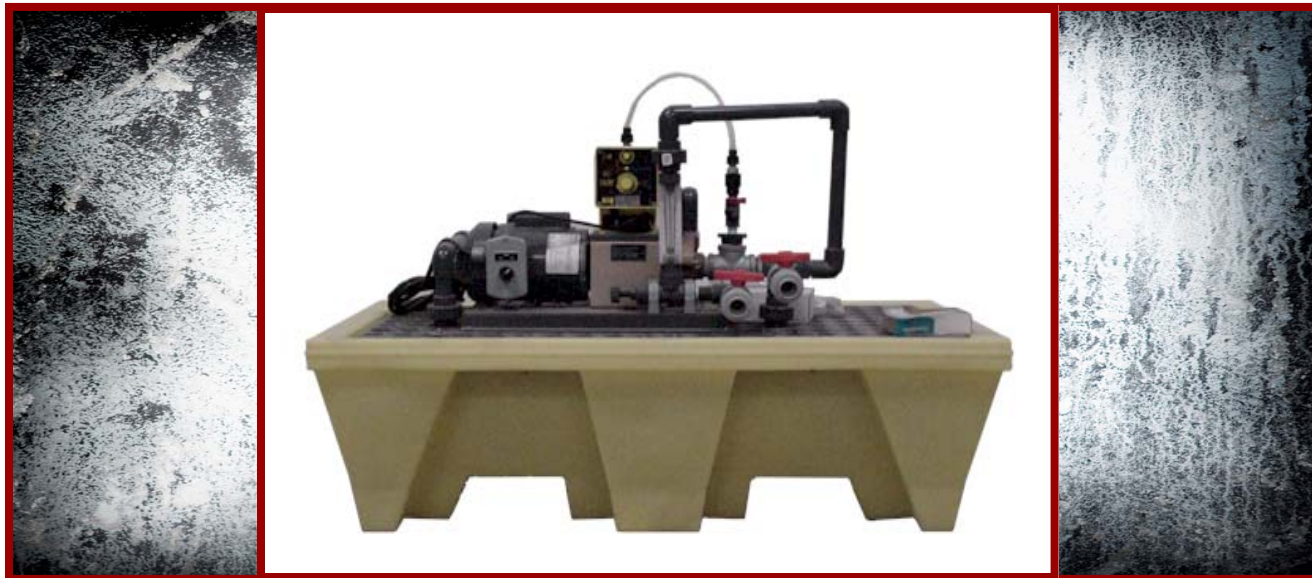


### DCS-MD SERIES





# DCS Series



## Polymer Feeder

The DCS series of polymer feeders are designed to meet the ever-changing demand of water and wastewater applications. Designed to solve most polymer feed problems, the DCS provides a simple and cost effective answer for polymer applications.

The DCS will feed solution, emulsion, and dispersant polymers; whether they are cationic, anionic, or non-ionic. By providing initial high shear mixing, followed with additional aging, the DCS develops even the most difficult polymers to their fullest dewatering potential online!! Standard units are Nema 4X rated. Explosion proof or custom applications are available on request.

With neat polymer feed rates up to 10 gph, water flow rates to 30 gpm and pressure feed rates to 100 psi, the DCS series has the polymer feeder for your application.

## Specifications

Design Controls provides an integrated equipment package that automatically meters, blends, and feeds the water and liquid polymers into a water stream for flocculation.

An electric 1/2hp direct-drive motor powers the reverse-acting impeller designed mixer. Belt drive and static mixers are unacceptable. The constructed metal mixing chamber endures pressures of up to 150psi.

After leaving the mixing chamber the polymer solution feeds into a ten (10) gallon aging chamber, never again to be subjected to shear which would degrade the hydrated polymer.

The homogenous effluent polymer solution shows no agglomeration or fish eyes.

The water-train components include a rotometer flow indicator with integral flow adjustment and a solenoid valve.

All electrical enclosures are Nema 4X and any rotating

motors shall be TEFC. The warranty shall last for at least one year, and will not be voided by exposure to rain or other gently falling water.

### Electrical requirements:

Ordinary 3 prong plug, 110VAC, max 10 amps, 60 Hz.

### Inlet water:

Clean (filtered if necessary) 32 F to 110 F, max 100psi potable or plant water

### Inlet fittings:

1" FNPT

### Outlet Fittings:

1" FNPT

### Maximum working pressure:

100 psig

### Approximate dimensions:

48" L x 24" W x 24" H.

### Liquid polymer feed rate:

from \_\_\_\_ gph to \_\_\_\_ gph

### Dilution water feed rate:

from \_\_\_\_ gpm to \_\_\_\_ gpm

### Model:

DCS-\_\_\_\_-\_\_\_\_.



# DS Series



## Polymer Feeder

Design Controls created the DS Series of polymer feeders for low feed applications where economy is important.

Due to the incorporation of static design, the DS series is excellent for clarifiers, oil separators, small DAF units, or any application where low flow rates prohibit the use of expensive feed equipment.

The DS series is the most economical and efficient polymer feeder on the market today. Maximum feed rates are 2 gph neat polymer and 10 gpm of water.

## Specifications

Design Controls provides an integrated equipment package that automatically meters, blends, and feeds water and liquid polymers into a water stream for flocculation.

The mixer chamber utilizes static mixers of PVC construction which endures pressures of up to 100psi. Motorized mixers are unacceptable for this application. The polymer pump shall be of plastic/acrylic construction.

Water-train components include a rotometer flow indicator with an integral flow adjusting valve. All electrical enclosures are Nema 4X. The warranty shall last for at least one year, and will not be voided by exposure to rain or other gently falling water.

### Electrical requirements:

Ordinary 3 prong plug, 110VAC, max 5 amps, 60 Hz.

### Inlet water:

Clean (filtered if necessary)  
32F to 110F, max 100 psi  
potable or plant water

### Inlet & Outlet Fittings:

1" FNPT

**Maximum working pressure:**  
100 psig

### Approximate dimensions:

30" L x 20" W  
(wall mounted)

### Liquid polymer feed rate:

from \_\_\_\_\_ gph to \_\_\_\_\_ gph

### Dilution water feed rate:

from \_\_\_\_\_ gpm to \_\_\_\_\_ gpm

### Model:

DS-\_\_\_\_-\_\_\_\_.





## DCS-MD Series



### Polymer Feeder

The DCS-MD series of polymer feeders are make-down capable. By harnessing the same activation process utilized in our DCS feeders, the DCS-MD offers the versatility found only in batch feed systems. Batch feed applications are desirable where high pressure, high volume, or additional aging is required (some anionics).

With neat polymer feed rates up to 50 gph, solution polymer feed rates to 100 gpm, and feed pressure to 3000 psi, the custom built DCS-MD series offers the versatility needed for the most demanding polymer feed applications.

Custom specifications available upon request.



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