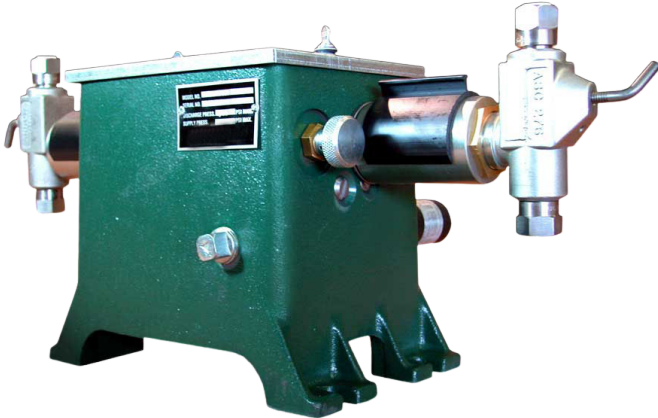


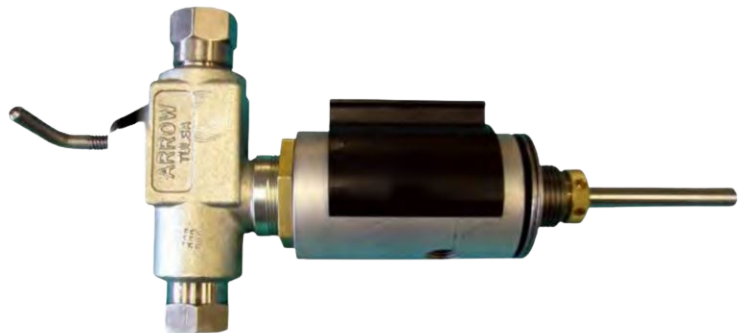
## 430 SERIES



### **DESCRIPTION**

The SES Arrow Series 430 Chemical Injectors are electric motor driven, positive displacement pumps utilizing an integral worm gear drive available in three different standard ratios and four plunger sizes to provide a wide selection of volumes and pressures from 1 QPD up to 80 GPD per head against pressures up to 2400 PSIG. The standard packed plunger injector head with built in priming valves are virtually trouble free. Standard pumps are available with high strength ductile iron or 316 stainless steel fluid ends to handle a wide variety of chemicals used in oil and gas production facilities, pipelines, process plants and other applications where a rugged, easy to maintain, proportioning pump is required.

The SES Arrow Series 430 with coupling, utilizes electric motors, v-belt, pneumatic motors or gasoline engines as a power source. The chemical injector pump is available with one to eight plunger head assemblies in a choice of gear ratios (25:1, 50:1, 100:1). The required horsepower is 1/4 H.P. for 1 to 2 heads with will accommodate all plunger sizes (3/16", 1/4", 3/8", 1/2"). The standard injector heads are supplied with ductile iron body and stainless steel trim. All stainless steel is available as an option. Teflon packing and metal-to-metal seats are available as alternatives to standard injector head parts at no additional cost. Viton O-ring type resilient check seats are standard on all heads. The SES Arrow Series 430 is available from the factory with or without electric motor only. Allow 10-12 week delivery time on 50 HZ motor.

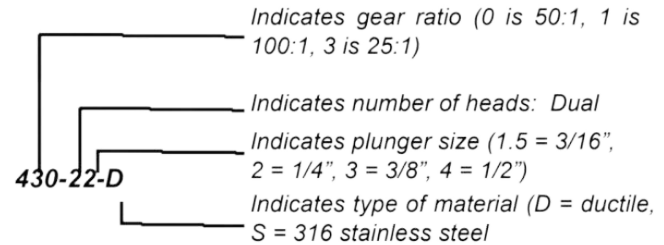


## 430 SERIES

### FEATURES

- Integral gear drive and crosshead mechanism in heavy cast iron housing with an oil level sight gauge.
- Output gear of high strength alloy iron is supported in a sturdy special bearing arrangement for maximum rigidity to assure an extremely long life.
- A full gasket under the gearbox cover provides a positive barrier against moisture, dirt, and corrosive vapors.
- Choice of liquid extremities: all interchangeable
- External stroke adjustment
- The flow rate is adjustable while the pump is running.

Reference Example	Base Pump	Basic Pump
Example part number for series 430 (50:1) single ductile head, 1/4" plunger. ....430.....430-2D		
Example part number for series 431 (100:1) single ductile head, 1/4" plunger. ....431.....431-2D		
Example part number for series 433 (25:1) 2 316 SS heads, 1/4" plunger. ....433.....433-22S		



### CAPACITY DATA

Plunger Size	Maximum Discharge Pressure	Max. Volume (Expressed in U.S. Gallons per day)								
		100:1 Ratio			50:1 Ratio			25:1 Ratio		
		Max. GPD			Max. GPD			Max. GPD		
Single Head Units		Model No.	60 Hz Motor 1725 RPM	50 Hz* Motor 1450 RPM	Model No.	60 Hz Motor 1725 RPM	50 Hz* Motor 1450 RPM	Model No.	60 Hz Motor 1725 RPM	50 Hz* Motor 1450 RPM
3/16"	3000 PSI	431-1.5S	2.5	2.07	430-1.5S	5	4.1	433-1.5S	10	8.3
1/4"	2400 PSI	431-2	5	4.15	430-2	10	8.3	433-2	20	16.6
3/8"	1200 PSI	431-3	12	9.96	430-3	23	19.09	433-3	46	38.18
1/2"	600 PSI	431-4	21	17.43	430-4	40	33.2	433-4	80	66.4
Double Head Units		Model No.	Max. GPD		Model No.	Max. GPD		Model No.	Max. GPD	
3/16"	3000 PSI	431-21.5S	5	4.1	430-21.5S	10	8.3	433-21.5S	20	16.6
1/4"	2400 PSI	431-22	10	8.3	430-22	20	16.6	433-22	40	33.2
3/8"	1200 PSI	431-23	24	19.9	430-23	46	38.18	433-23	92	76.4
1/2"	600 PSI	431-24	42	34.86	430-24	80	66.4	433-24	160	132.8