

Series 4300

Chemical Injection Pumps

Dresser Natural Gas Solutions Texsteam Series 4300 chemical injection pump is designed to deliver precise delivery of treatment chemicals for oil and gas production facilities, pipelines, process plants and other applications where a rugged, easy to maintain proportioning pump is required. The electrically driven positive displacement design incorporates an integral worm gear drive with three available ratios and six (6) different plunger sizes to provide a wide selection of volumes and pressures. An optional 10:1 ratio externally mounted gear reducer is available for feed rates as low as half a pint per day.

The Series 4300 pump is provided with a micrometer type stroke adjustment feature that allows the proper flow rate to be set while the pump is in operation. This allows for a 0-100 percent change in capacity with repeatable accuracy to 1 percent of set point. Up to eight (8) heads can be operated from a common motor, with independent adjustment available for each head so that multiple injection points or different chemicals can be introduced into the flow stream.

The liquid ends are available in either ductile iron or stainless steel to handle a wide variety of chemicals. The liquid ends also include as standard built-in priming valves and a dripping style barrier that prevents chemical intrusion along the plunger and into the gear box.

Features

- Flow rates from .063 GPD to 325 GPD per head.
- Discharge pressures from 150 psig to 5000 psig.
- Motors are available in single or three-phase voltages and in TENV or explosion-proof enclosures.
- 10:1 ratio gear reducer option is capable of providing flow rates from 1/2 pint per day to 1.25 GPD.
- The integral gear drive and crosshead mechanism are housed in a durable cast iron housing with a sight gauge to monitor lubrication level.
- The output gear is made from a high-strength alloy iron, and is bearing supported for maximum rigidity and reliable performance.

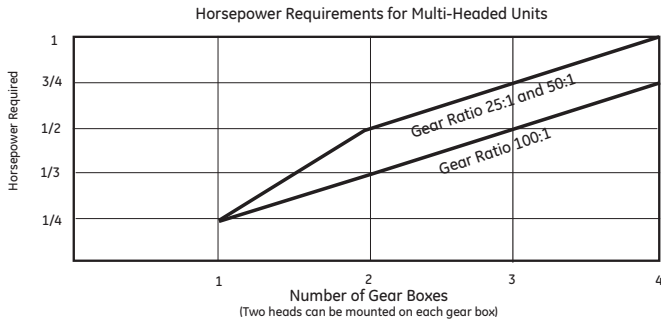


- A gasketed gear box cover provides a positive barrier against moisture, dirt, or other contaminants entering the gear box assembly.
- The liquid end sizes are interchangeable and can be adjusted while the pump is in operation.
- A selection of packing materials to address a wide variety of chemical applications.
- Options such as stainless steel tanks, tank gauges, and line check valves for specific customer requirements.

Model Designation

4323-3-P 3/8"

- Always specify plunger size when ordering
- Indicates power unit model (without chemical tank). Absence of P indicates chemical injector model with SS tank(s)
- Indicates number of injector heads (1 through 8).
- Indicates plunger size (1 is 1/4", 3 is 3/8", 4 is 3/16", 5 is 1/2", 6 is 3/4" and 7 is 1").
- Indicates gear ratio (0 is 50:1; 2 is 100:1; 3 is 25:1)



Min-Max Volume (Expressed in U.S. Gallons Per Day) – Simplex Version													
Plunger Size	Maximum Discharge Pressure	100:1 Ratio (strokes/minutes)				50:1 Ratio (strokes/minutes)				25:1 Ratio (strokes/minutes)			
		Min.		Max. GPD		Min.		Max. GPD		Min.		Max. GPD	
Single Head Units		Model No.	60 Hz Motor	50 Hz Motor	Model No.	60 Hz Motor	50 Hz Motor	Model No.	60 Hz Motor	50 Hz Motor	Model No.	60 Hz Motor	50 Hz Motor
3/16"	5000 # Hard Pkg. 3000 # Soft Pkg.	4324	0.063	2.5	2.07	4304	0.13	5	4.15	4334	0.25	10	8.3
1/4"	2400 PSI	4321	0.5	5	4.15	4301	1	10	6.3	4331	2	20	16.6
3/8"	1200 PSI	4323	1.2	12	9.96	4303	2.3	23	19.09	4333	4.6	46	38.18
1/2"	600 PSI	4325	2.1	21	17.43	4305	4	40	33.2	4335	8	80	66.4
3/4"	300 PSI	4326	4.6	46	38	4306	9.1	91	75.5	4336	18.2	182	151
1"	150 PSI	4327	8.1	81	67.5	4307	6.3	63	135.2	4337	32.5	325	269.7
3/16"	5000 # Hard Pkg. 3000 # Soft Pkg.	4324-2	0.13	5	4.14	4304-2	0.26	10	8.3	4334-2	0.5	20	16.6
1/4"	2400 PSI	4321-2	1	10	8.3	4301-2	2	20	16.6	4331-2	4	40	33.2
3/8"	1200 PSI	4323-2	2.4	24	19.9	4303-2	4.6	46	38.18	4333-2	9.2	92	76.4
1/2"	600 PSI	4325-2	4.2	42	34.86	4305-2	8	80	66.4	4335-2	16	160	132.8
3/4"	300 PSI	4326-2	9.2	92	76.3	4306-2	18.2	182	151	4336-2	36.4	364	302.1
1"	150 PSI	4327-2	16.2	162	134.4	4307-2	32.6	326	270.5	4337-2	65	650	539.5

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