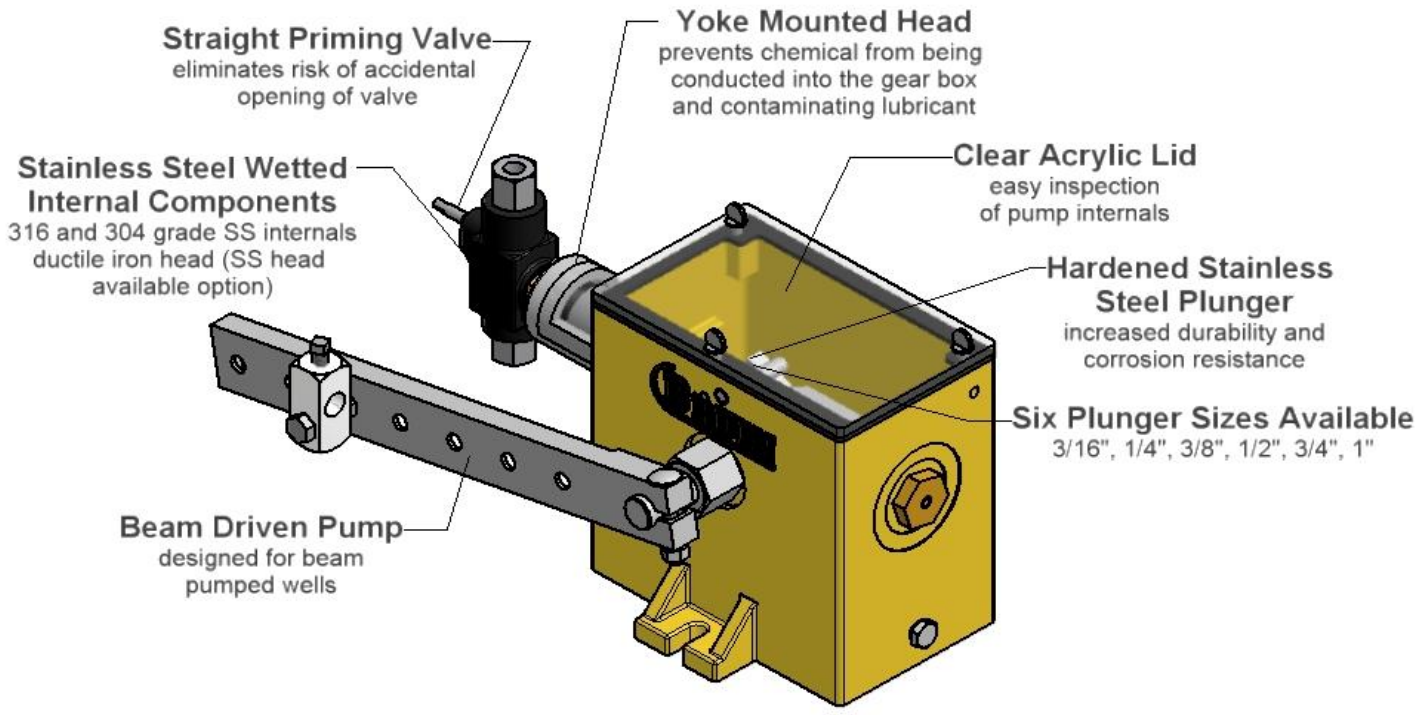
BR1200

Beam Driven Chemical Injection Pump

The **BR1200 Chemical Injector Pump** is a beam driven, positive displacement, plunger type pump that was designed specifically for operation on a beam pumped well. The BR1200 series chemical injector pumps are powered by direct connection to the movement of a walking beam, rod line, or rocker arm. The connection can be made by a length of nominal pipe or wire line. The unit pumps on the upstroke of the beam action and returns to its set position on the downstroke. Available in single or double head configurations with 6 standard plunger sizes, 3 plunger length settings and a ratchet mechanism with an adjustable engagement of 1 to 20 teeth providing a versatile volume output up to 13.3 imperial gallons per day per head with discharge pressures up to 3000 psig. Conversion for handling of various chemicals is easily accomplished by the change out of the packing set and fluid end seals.



Performance Specifications

Volume (liters per day) for Single Ratchet Tooth Engagement

	3/16" Plunger			1/4" Plunger			3/8" Plunger			1/2" Plunger			3/4" Plunger			1" Plunger		
Stokes	Short	Medium	Long	Short	Medium	Long	Short	Medium	Long	Short	Medium	Long	Short	Medium	Long	Short	Medium	Long
Min.	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke
2	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.05	0.03	0.06	0.08	0.06	0.13	0.19	0.11	0.22	0.34
4	0.01	0.02	0.02	0.01	0.03	0.04	0.03	0.06	0.09	0.06	0.11	0.17	0.13	0.25	0.38	0.22	0.45	0.67
6	0.01	0.02	0.04	0.02	0.04	0.06	0.05	0.09	0.14	0.08	0.17	0.25	0.19	0.38	0.57	0.34	0.67	1.01
8	0.02	0.03	0.05	0.03	0.06	0.08	0.06	0.13	0.19	0.11	0.22	0.34	0.25	0.50	0.76	0.45	0.90	1.35
10	0.02	0.04	0.06	0.04	0.07	0.11	0.08	0.16	0.24	0.14	0.28	0.42	0.32	0.63	0.95	0.56	1.12	1.68
12	0.02	0.05	0.07	0.04	0.08	0.13	0.09	0.19	0.28	0.17	0.34	0.50	0.38	0.76	1.14	0.67	1.35	2.02
14	0.03	0.06	0.08	0.05	0.10	0.15	0.11	0.22	0.33	0.20	0.39	0.59	0.44	0.88	1.33	0.79	1.57	2.36
16	0.03	0.06	0.09	0.06	0.11	0.17	0.13	0.25	0.38	0.22	0.45	0.67	0.50	1.01	1.51	0.90	1.79	2.69
18	0.04	0.07	0.11	0.06	0.13	0.19	0.14	0.28	0.43	0.25	0.50	0.76	0.57	1.14	1.70	1.01	2.02	3.03

Volume (US pints per day) for Single Ratchet Tooth Engagement

	3/16" Plunger			1/4" Plunger			3/8" Plunger			1/2" Plunger			3/4" Plunger			1" Plunger		
Stokes	Short	Medium	Long	Short	Medium	Long	Short	Medium	Long	Short	Medium	Long	Short	Medium	Long	Short	Medium	Long
Min.	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke
2	0.01	0.02	0.02	0.01	0.03	0.04	0.03	0.07	0.10	0.06	0.12	0.18	0.13	0.27	0.40	0.24	0.47	0.71
4	0.02	0.03	0.05	0.03	0.06	0.09	0.07	0.13	0.20	0.12	0.24	0.36	0.27	0.53	0.80	0.47	0.95	1.42
6	0.02	0.05	0.07	0.04	0.09	0.13	0.10	0.20	0.30	0.18	0.36	0.53	0.40	0.80	1.20	0.71	1.42	2.13
8	0.03	0.07	0.10	0.06	0.12	0.18	0.13	0.27	0.40	0.24	0.47	0.71	0.53	1.07	1.60	0.95	1.90	2.84
10	0.04	0.08	0.12	0.07	0.15	0.22	0.17	0.33	0.50	0.30	0.59	0.89	0.67	1.33	2.00	1.19	2.37	3.56
12	0.05	0.10	0.15	0.09	0.18	0.27	0.20	0.40	0.60	0.36	0.71	1.07	0.80	1.60	2.40	1.42	2.84	4.27
14	0.06	0.12	0.17	0.10	0.21	0.31	0.23	0.47	0.70	0.41	0.83	1.24	0.93	1.87	2.80	1.66	3.32	4.98
16	0.07	0.13	0.20	0.12	0.24	0.36	0.27	0.53	0.80	0.47	0.95	1.42	1.07	2.13	3.20	1.90	3.79	5.69
18	0.07	0.15	0.22	0.13	0.27	0.40	0.30	0.60	0.90	0.53	1.07	1.60	1.20	2.40	3.60	2.13	4.27	6.40

For Volume with additional teeth engagement, multiply these values by number of teeth engaged.

20 Teeth maximum engagement per stroke. Volumes are theoretical only.
***NOTE:** For double headed units increase maximum volume by two.*

Maximum volumes / head

Plunger size	Maximum Pressure (psig)	Model	Max. Volume / Head	
			US Pints	Litres
3/16"	3000	1204	4.5	2.1
1/4"	1500	1201	8	3.8
3/8"	1000	1203	18	8.5
1/2"	500	1205	32	15.1
3/4"	250	1206	72	34.1
1"	125	1207	128	60.6

***NOTE:** Maximum 20 teeth engagement per stroke. When the lever arm cannot travel below the level of the bottom of the base, the maximum teeth engagement will be 15.*