



BR1200



Beam Driven Chemical Injection Pump



Product Details

The Bruin BR1200 Chemical Injector Pump is a beam driven, positive displacement, plunger type pump that was designed specifically for operation on a beam pumped well. It is powered by walking beam, rod line, or rocker arm movement via direct connection with 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. Single or double head configurations available in 6 different plunger sizes, 3 stroke length settings and a ratchet mechanism with an adjustable engagement of 1 to 20 teeth. The BR1200 can produce output volumes up to 60 Litres per day with a 1" head and discharge pressures up to 3000 psig with a 3/16" head.

Highlights

- Adjustable stroke length and plunger sizes (3/16", 1/4", 3/8", 1/2", 3/4" & 1") provide an adjustable volume output up to 60 Litres per day per head maximum.
- Adjustable stroke length and ratchet engagement provides wide output volume range.
- Yoke mounted fluid head prevents possibility of gear box lubricant contamination.
- Clear acrylic lid for easy inspection of pump internals.
- Designed for ease of operation and maintenance under varied pumping applications.
- Conversion for handling of various chemicals is easily accomplished by the change out of the packing set and fluid end seals.

SPECIFICATIONS BR1200 Series

Type	Beam Driven
Volume	0 - 60 Litres / Day per Head 0 - 13 Imp. Gal. / Day per Head 0 - 16 US. Gal. / Day per Head
Number of Fluid Heads	1 or 2
Pressure	Max. 3000 psig Max. 20684 kPa
Plunger Sizes	3/16", 1/4", 3/8", 1/2", 3/4", 1"
Stroke Length	Short, Medium or Long Adjustments

Fluid Suction & Discharge Connection 1/4" FNPT

MATERIALS OF CONSTRUCTION

Fluid Head	Ductile Iron (Std., Not Available for 3/16") Stainless Steel (Optional, Std. on 3/16")
Internal Wetted Components	Stainless Steel
Plunger	Stainless Steel (Std.) Case Hardened Stainless Steel (Optional) Ceramic (Optional)
Packing V-Style	Buna, Buna Hard, Viton, Teflon, Fluorosilicone, Brueze, Brueze FFKM, Other Material Arrangements Available
Seals	Buna, Metal-to-Metal, Viton, Teflon, Fluorosilicone, Brueze

APPLICATIONS Methanol Injection, Chemical Injection, Lubricants, Corrosion Inhibitors

ACCESSORIES Bases, Tanks, Gauges, Stainless Steel Fittings, Cables

Performance Specifications

	PLUNGER SIZE					
	3/16"	1/4"	3/8"	1/2"	3/4"	1"
Standard Model						
Model Number	BR1204	BR1201	BR1203	BR1205	BR1206	BR1207
Maximum Discharge Pressure (psig)	3000	1500	1000	500	250	125
Maximum Discharge Pressure (kPa)	20684	10342	6894	3447	1723	861
Maximum Discharge Pressure (bar)	206	103	68	34	17	8
Maximum Recommended Speed (Strokes/Minute)	50	50	50	50	50	50
Volume (Per Head)						
Hourly						
Volume* (litres/hour)	0.09	0.16	0.35	0.63	1.42	2.52
Volume* (imp gal/hour)	0.02	0.03	0.07	0.14	0.31	0.55
Volume* (US gal/hour)	0.02	0.04	0.09	0.16	0.37	0.66
Daily						
Volume* (litres/day)	2.1	3.8	8.5	15.1	34.1	60.6
Volume* (imp gal/day)	0.4	0.8	1.8	3.3	7.5	13.3
Volume* (US gal/day)	0.5	1.0	2.2	4.0	9.0	16.0

* Volumes shown are at 0 psig Discharge Pressure at 18 beam strokes per minute with 20 teeth engaged.

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

Plunger Packing

	PLUNGER SIZE					
	3/16"	1/4"	3/8"	1/2"	3/4"	1"
Maximum Discharge Pressure (psig)						
Buna (Nitrile)	3000	1500	1000	500	250	125
Buna Hard (High Pressure)	3000	1500	1000	500	250	125
Viton (FKM)	3000	1500	1000	500	250	125
Teflon (PTFE)	3000	1500	1000	500	250	125
Fluorosilicone (FVMQ)	3000	1500	1000	500	250	125
Buna / Teflon	3000	1500	1000	500	250	125
Viton / Teflon	3000	1500	1000	500	250	125
Brueze (FEPM)	3000	1500	1000	500	250	125
Brueze FFKM (FFKM)	3000	1500	1000	500	250	125