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Bruin 2400 Series Electric Chemical Injection Pump

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BR2400



Electric Driven Chemical Injection Pump



Product Details

The Bruin BR2400 Chemical Injector Pump is an electric driven, positive displacement plunger type pump. It's powered by a C-faced motor mounted onto a gear reducer; available in 30 or 60 strokes per minute. Available in 4 plunger sizes, the BR2400 can handle output volumes up to 3332 Litres per day per head with the 1 ¼" head and discharge pressures up to 4000 psig with the ½" head. Volume is controlled, based on plunger size selected and the speed of the pump based on the gearbox size, via a stroke length adjustment that can be adjusted while the pump is running. Maximum discharge capability is governed by the plunger size selection and the packing selection.

Highlights

- Adjustable stroke length (0 – 100%), plunger sizes (1/2", 3/4", 1" & 1 ¼") and gearbox ratios provide an adjustable volume output up to 3332 Litres per day per head maximum.
- Available in a Simplex or Duplex configuration.
- Designed for ease of operation and maintenance under varied pumping applications.
- Grease jack allows for lubrication during operation and increases service life.
- Clear acrylic lid for easy inspection of pump internals.
- Conversion for handling of various chemicals is easily accomplished by the change out of the packing set and fluid end seals.

SPECIFICATIONS

BR2400 Series

Type	Electric Driven
Volume	0 - 3332 Litres / Day (Simplex) 0 - 732 Imp. Gal. / Day (Simplex) 0 - 880 US. Gal. / Day (Simplex) 0 - 6664 Litres / Day (Duplex) 0 - 1464 Imp. Gal. / Day (Duplex) 0 - 1760 US. Gal. / Day (Duplex)
Number of Fluid Heads	1 (Simplex) or 2 (Duplex)
Pressure	Max. 4000 psig (Hard Packing Only) Max. 27579 kPa (Hard Packing Only) Max. 3000 psig (Other Packing) Max. 20684 kPa (Other Packing)
Plunger Sizes	1/2", 3/4", 1", 1 ¼"
Stroke Length	Variable - Up to 2" Maximum
Electrical	1 HP motor, 1 or 3 phase TEFC or Explosion Proof
Gear Reducer	30 or 60 Strokes per Minute
Fluid Suction & Discharge Connection	¼" FNPT or ½" FNPT (1 ¼" Plunger)

MATERIALS OF CONSTRUCTION

Fluid Head	Stainless Steel
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, Buez, Buez FFKM, Other Material Arrangements Available
Seals	Buna, Metal-to-Metal, Viton, Teflon, Fluorosilicone, Buez

APPLICATIONS

Methanol Injection, Chemical Injection, Soap Injection, Corrosion Inhibitors

ACCESSORIES

Bases, Tanks, Gauges, Stainless Steel Fittings, Skid Package

Performance Specifications

	PLUNGER SIZE			
	1/2"	3/4"	1"	1 1/4"
Stroke Speed – 60 SPM				
Model Number	BR24F5	BR24F6	BR24F7	BR24F8
Maximum Discharge Pressure ¹ (psig)	4000	1750	1000	500
Maximum Discharge Pressure ¹ (kPa)	27579	12065	6894	3447
Maximum Discharge Pressure ¹ (bar)	275	120	68	34
Maximum Volume				
Simplex Daily				
Maximum Volume* (litres/day)	532	1200	2132	3332
Maximum Volume* (imp gal/day)	116	264	468	732
Maximum Volume* (US gal/day)	140	316	562	880
Duplex Daily				
Maximum Volume* (litres/day)	1064	2400	4264	6664
Maximum Volume* (imp gal/day)	232	528	936	1464
Maximum Volume* (US gal/day)	280	632	1124	1760
Stroke Speed – 30 SPM				
Model Number	BR24G5	BR24G6	BR24G7	BR24G8
Maximum Discharge Pressure ¹ (psig)	4000	1750	1000	500
Maximum Discharge Pressure ¹ (kPa)	27579	12065	6894	3447
Maximum Discharge Pressure ¹ (bar)	275	120	68	34
Maximum Volume				
Simplex Daily				
Maximum Volume* (litres/day)	266	600	1066	1666
Maximum Volume* (imp gal/day)	58	132	234	366
Maximum Volume* (US gal/day)	70	158	281	440
Duplex Daily				
Maximum Volume* (litres/day)	532	1200	2132	3332
Maximum Volume* (imp gal/day)	116	264	468	732
Maximum Volume* (US gal/day)	140	316	562	880

* Volumes shown are at 0 psig Discharge Pressure and at 1750 rpm Motor Speed.

1. Maximum Discharge Pressure above 3000 psig (20684 kPa, 206 bar) requires Buna Hard Packing.

Plunger Packing

	PLUNGER SIZE			
	1/2"	3/4"	1"	1 1/4"
Maximum Discharge Pressure (psig)				
Buna (Nitrile)	3000	1750	1000	500
Buna Hard (High Pressure)	4000	1750	1000	500
Viton (FKM)	3000	1750	1000	500
Teflon (PTFE)	3000	1750	1000	500
Fluorosilicone (FVMQ)	3000	1750	1000	500
Buna / Teflon	3000	1750	1000	500
Viton / Teflon	3000	1750	1000	500
Bruez (FEPM)	3000	1750	1000	500
Bruez FFKM (FFKM)	3000	1750	1000	500