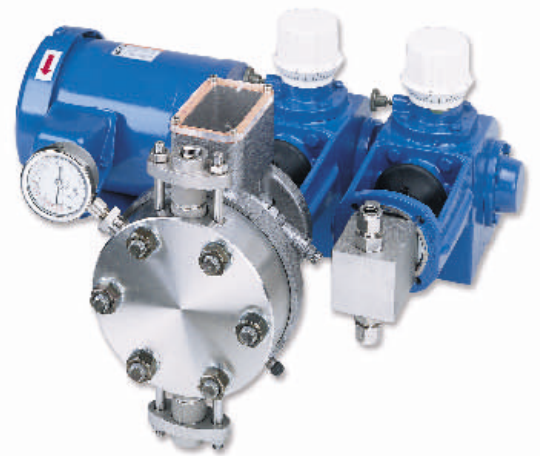




SPX Process Equipment

“P” Series Metering Pump



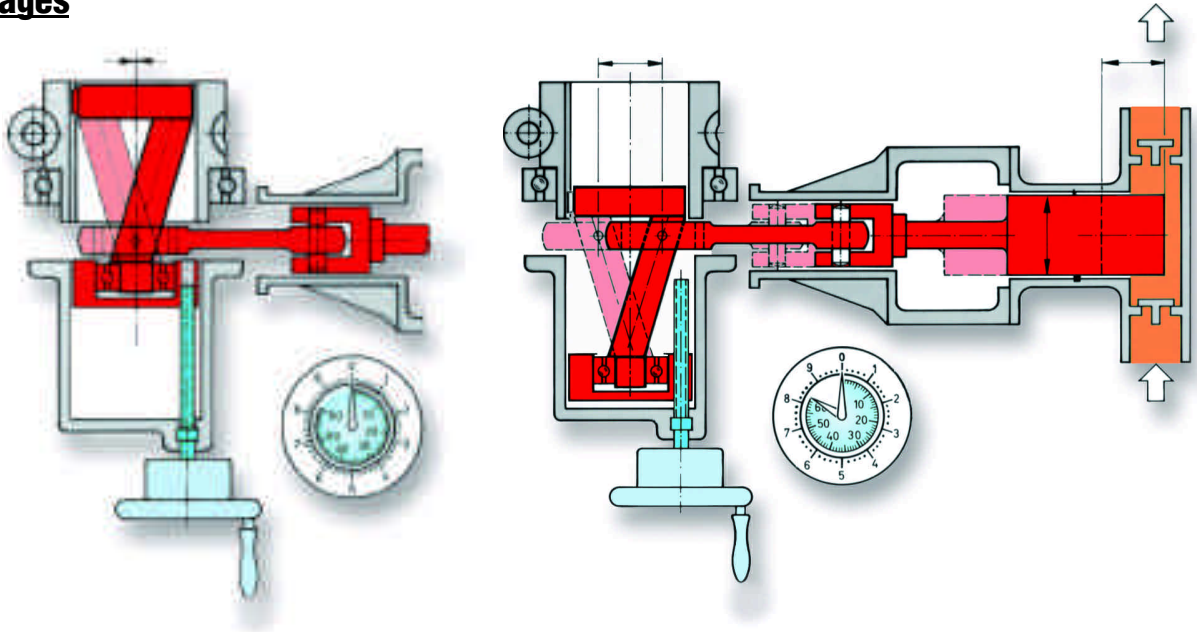
Packaging - Processing
Bid on Equipment
1-847-683-7720
www.bid-on-equipment.com

Infinitely Adjustable Stroke Length

The amplitude modulation design of the P Pump's crankshaft and stroke length enables it to work round the clock for virtually any liquid application. Stroke lengths are infinitely variable between zero and 100% maximum capacity. This flexibility makes the P Pump ideal for continuous as well as batch operations. And the variable stroke length adapts to production runs that continually require different output capacities.

Design Advantages

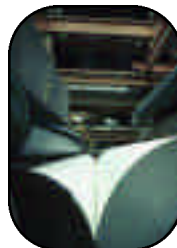
- Continuous motion design eliminates shock loads and wear that often occur with lost-motion units.
 - Stroke length adjustment by manual, electric or pneumatic control.
 - Steady state accuracy of $\pm 1/2\%$ and flow repeatability of $\pm 1\%$.
 - Easy-to-read micrometer gauge ensures precise setting.
- Adjustments can be made when pump is stationary or running.
 - Adjustment of stroke length and speed can be combined for maximum turndown ratio.



Wastewater Treatment



Dye Metering For Pulp and Paper

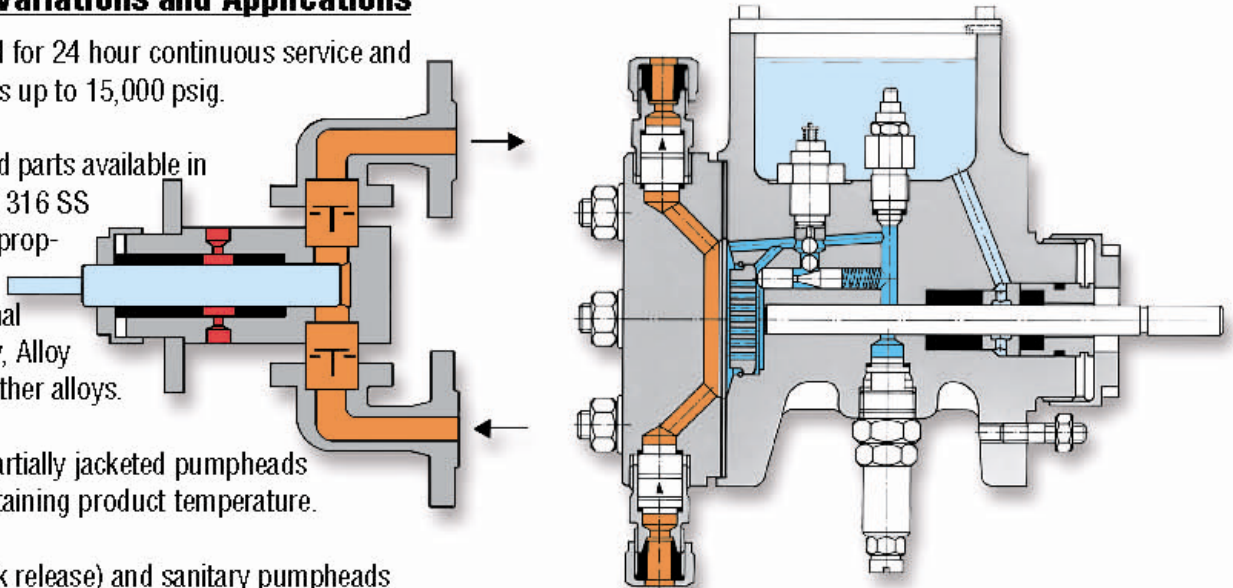


Packed Plunger and Diaphragm Pumpheads

Hour after hour, day after day, year after year... Bran+Luebbe P Pumps just keep ticking. That's because all pumpheads consist of standardized, interchangeable parts that ensure optimum performance for any metering task. Flexibility in material selection enables you to choose from a wide variety of packing, plunger and valve designs to suit any liquid metering application.

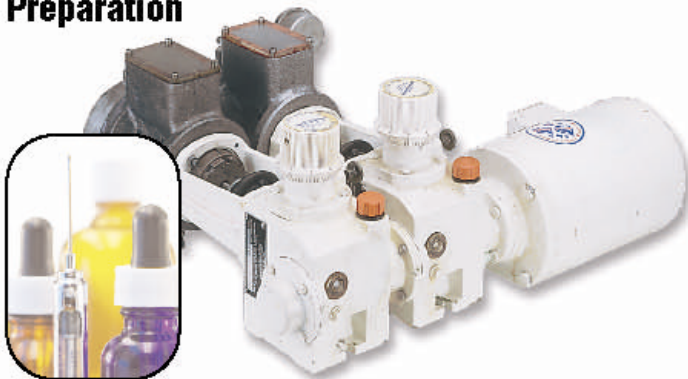
Pumphead Variations and Applications

- Designed for 24 hour continuous service and pressures up to 15,000 psig.
- All wetted parts available in standard 316 SS and polypropylene or optional Hastelloy, Alloy 20 and other alloys.
- Full or partially jacketed pumpheads for maintaining product temperature.
- 3A (quick release) and sanitary pumpheads available.
- Applications include chemical injection, high pressure reactor and extruder feed, HPLC, and in-line blending of dyes, pigments, fragrances, flavors and other ingredients.

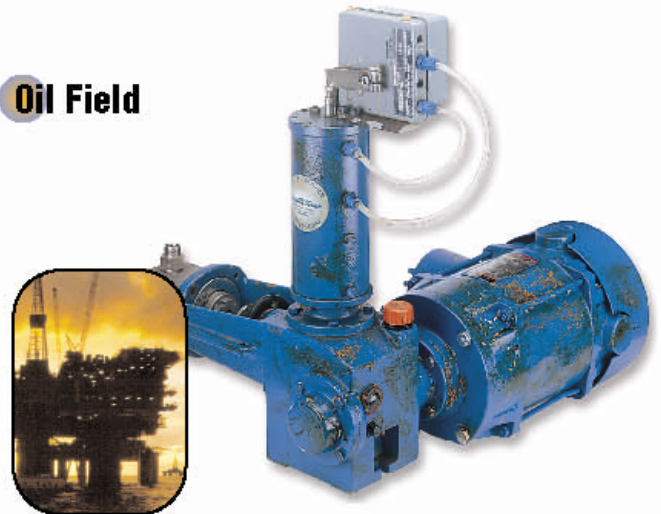


- Markets include food, pharmaceutical, personal care, pulp and paper, textile, plastics, general chemical, oil and gas.

Pharmaceutical Preparation



Oil Field

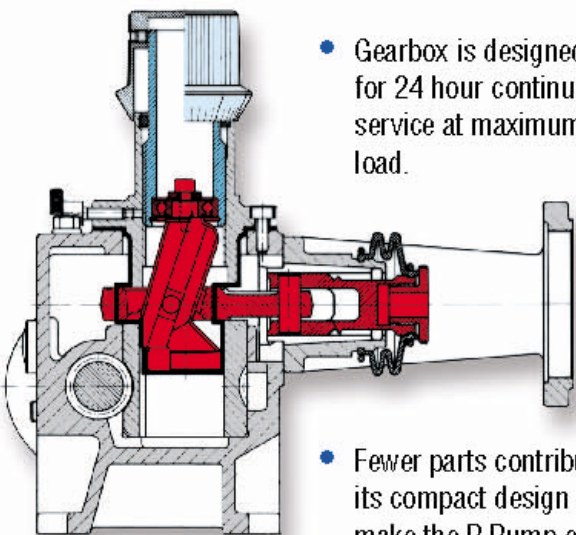


Robust Gearbox Assembly

A simple, robust gearbox design is behind the P Pump's "built like a tank" durability. It offers less wear, higher operational reliability and longer service life. And it's another reason why this metering pump runs like clockwork.

Design Advantages

- Because the gearbox is completely isolated from the pumphead, cross contamination of process fluid and gear oil is eliminated.



- Gearbox is designed for 24 hour continuous service at maximum load.

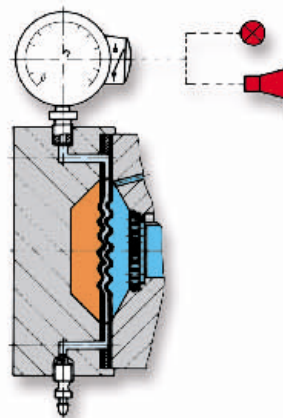
- Fewer parts contribute to its compact design and make the P Pump easy to service.

- Gear oil bath lubrication ensures minimal wear and quiet operation.

Double Diaphragm Means Double Protection

- Available in PTFE or stainless steel (316 SS), the double diaphragm eliminates catastrophic shut downs – should one diaphragm rupture, the second diaphragm functions in its place.
- Vacuum-coupled design eliminates barrier liquid which can contaminate your process.
- Mechanical replenishing valve allows operation under starved suction conditions without the need of a contour plate – this reduces the required NPSH.
- These pumpheads are ideal for abrasive slurries and shear sensitive liquids.

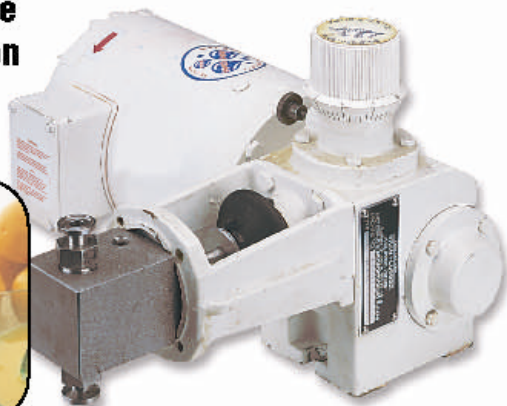
Diaphragm Rupture Alarm Is Simple and Reliable



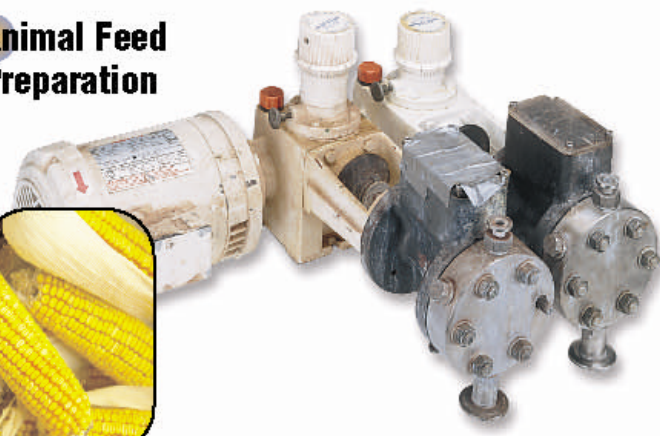
- Visual pressure gauge is standard.

- Optional pressure switch provides a signal for alarm or pump shutdown.

Fruit Juice Production

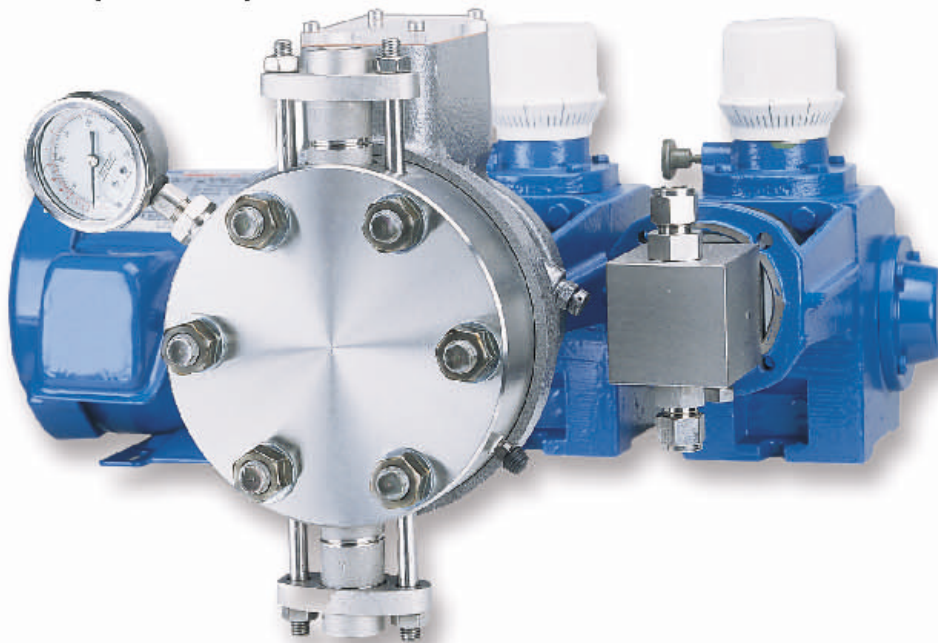


Animal Feed Preparation



The P Pump From Bran+Luebbe, It Stands The Test Of Time

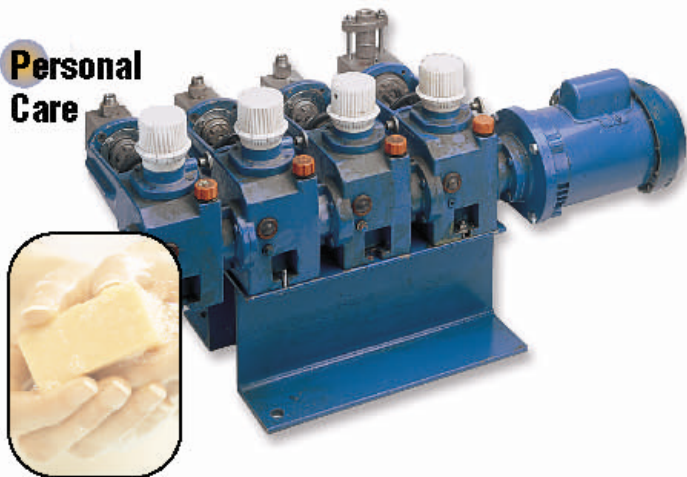
Flip a switch and walk away. That's the concept behind the P Series Metering Pump. It just keeps running... 24 hours a day, 7 days a week, year after year. The P Pump provides a lifetime of low maintenance, high reliability and extremely accurate metering. You can set your watch by it.



Modularity Means Adaptability To Any Application

The unique Bran+Luebbe building block system permits any combination of drive, gears, stroke length and pumpheads to be used for adaptation to specific metering and blending applications. This total flexibility enables multiple pumps to run through a common drive. It also enables quick, trouble-free modifications, upgrades and expansions to be made to existing systems... All without missing a beat.

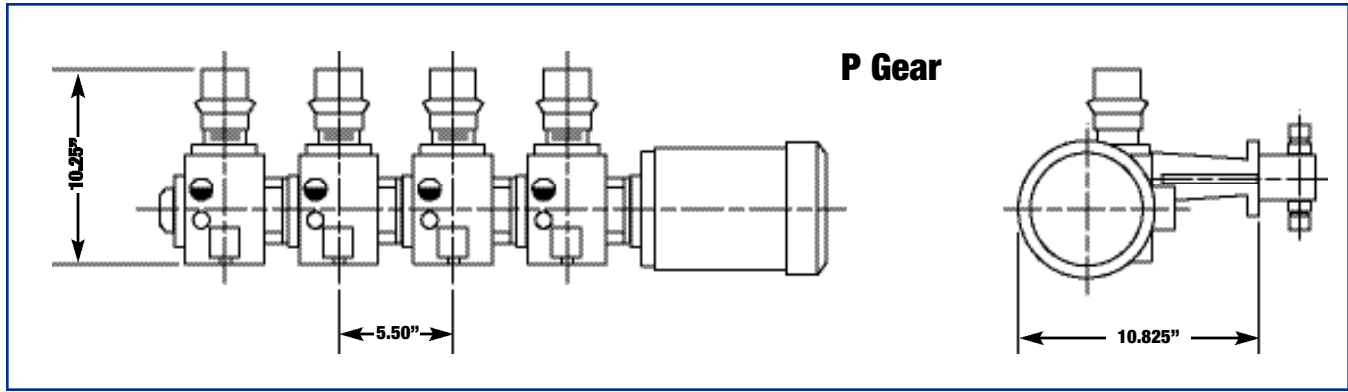
Personal Care



Chemical Injection



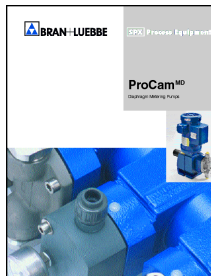
P Pump Data



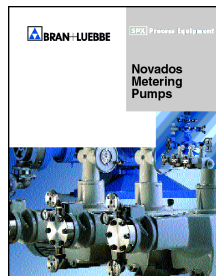
Capacity in Gallons Per Hour

Strokes/min										Plunger Ø mm	P max (psig)	Connection
40	60	76	86	102	120	152	172	204	240			
0.09	0.13	0.17	0.19	0.22	0.26	0.33	0.38	0.45	0.53	3	15,000	1/2" tube
0.25	0.37	0.46	0.52	0.62	0.73	0.93	1.05	1.24	1.46	5	11,081	1/2" tube
0.63	0.94	1.18	1.34	1.59	1.87	2.37	2.69	3.19	3.75	8	4,322	1/2" tube
1.40	2.11	2.67	3.02	3.58	4.22	5.34	6.04	7.17	8.43	12	1,929	1/2" tube
3.90	5.86	7.41	8.39	9.96	11.71	14.84	16.79	19.91	23.42	20	696	1/2" tube
8.79	13.18	16.69	18.89	22.40	26.35	33.38	37.78	44.80	52.70	30	305	1/2" NPT
17.22	25.83	32.71	37.02	43.91	51.66	65.43	74.04	87.81	103.30	42	159	1/2" NPT
24.40	36.60	46.36	52.47	62.23	73.21	92.73	104.93	124.45	146.41	50	116	1" NPT
30.61	45.92	58.16	65.81	78.06	91.83	116.32	131.63	156.11	183.66	56	87	1" NPT
37.52	56.28	71.29	80.67	95.68	112.56	142.58	161.34	191.36	225.13	62	73	1" NPT

Additional Products Available From Bran+Luebbe



**ProCam^{MD} Diaphragm
 Metering Pumps
 BL-103-L**



**Novados Metering
 Pumps
 BL-104-L**



**NOVAPLEX High
 Performance Process Pumps
 BL-1404**



**Pentax Multi-Frequency
 Fluid Mixer
 BL-1607**



For more information about Bran+Luebbe or for technical details on products and services available from SPX Process Equipment, visit our website:

www.spxprocessequipment.com

Or E-Mail us at bl@processequipment.spx.com.

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