



## Dosing Pumps

### Versatility

Blackstone pumps have been designed to meet the ever changing needs of industry. To accommodate diverse applications, the pumps can be easily mounted anywhere in your plant with their broad, flat base and mounting holes for tank, shelf or floor mounting (horizontal). The rear of the pump housing also provides mounting holes to facilitate vertical mounting: wall, tank or machine. With the pump valve assembly and unit controls both located on the front of the pump, there is never a problem with installation or flow adjustments.

### Simple Operation

Blackstone pumps are equipped with a single control for pump output. The external Flow Rate Control (potentiometer) on the face of the pump allows you to adjust the percentage of flow from 0 to 100% of the pump's rated capacity. This feature eliminates the need to worry about stroke lengths and power settings. An LED indicator lights up each time a stroke begins. This allows the user to assess the stroke rate from a distance.

### High Quality Materials

Blackstone pumps have been manufactured with the highest level of mechanical precision, from materials chosen for their inherent ability to resist the effects of aggressive chemicals. When you select a Blackstone pump, you are eliminating the time consuming effort involved in picking the right material for your application. Blackstone pumps are supplied with the highest quality material as standard equipment, not optional. The diaphragm utilizes one-piece construction of Teflon<sup>®</sup>, which unlike conventional laminated diaphragms will stand up to the test of time and wear. Ball valves are constructed in glass.

The pumphead and O-rings are all made of Kynar<sup>®</sup>, Teflon<sup>®</sup> and Viton<sup>®</sup> which offer unsurpassed resistance. The chemical resistance chart on page T1.56 shows how well Kynar<sup>®</sup> and Teflon<sup>®</sup> stand up to the most aggressive chemicals.

### Rugged Design

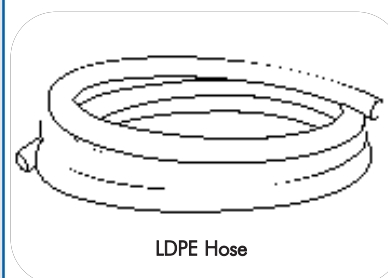
Blackstone pumps are completely sealed during assembly and offer IP65 protection (see section W for IP chart) against splashes and spills providing excellent protection even in hostile environments. The fiber-reinforced polypropylene housing stands up to aggressive chemicals while offering superior strength under tough industrial conditions.



### BL Series of Dosing Pumps

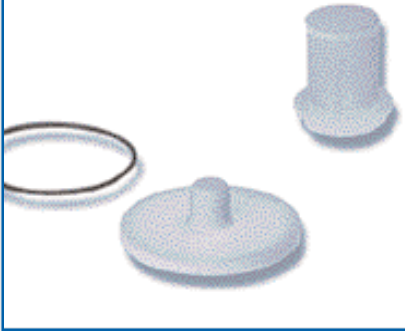
Part Number	Max Output	Rated Pressure	Dosing Frequency
With Large Diaphragm	LPH	bar	strokes/min
BL 20	18.3	0.5	120
BL 15	15.2	1	120
BL 10	10.8	3	120
BL 7	7.6	3	120
With Small Diaphragm			
BL 5	5.0	7	120
BL 3	2.9	8	120
BL 1.5	1.5	13	120

### HI 720032



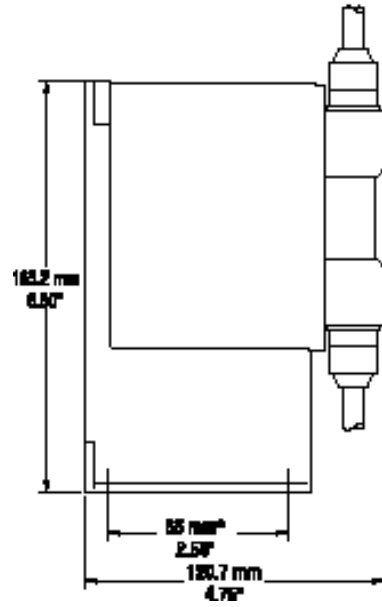
LDPE Hose

### Accessories



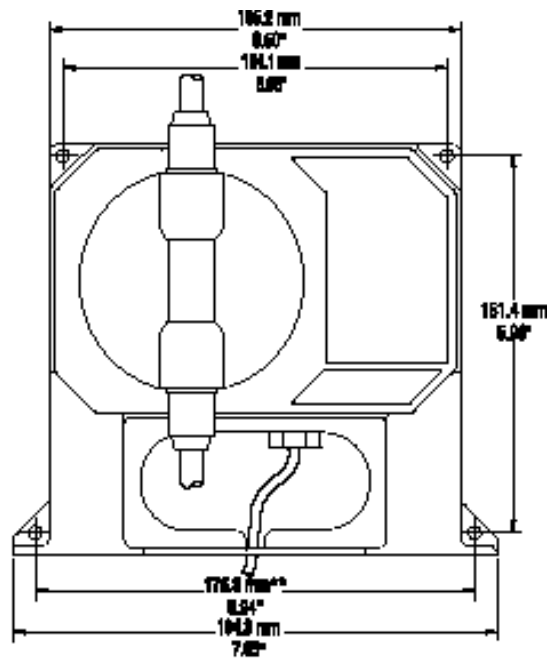
## Mechanical Dimensions for the Blackstone Pumps

### Side View

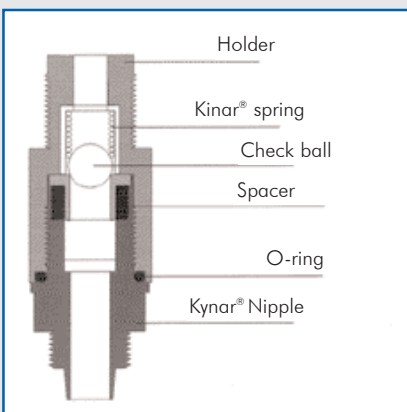


\* Dimensions for floor mounting

### Front View



\*\* Dimensions for floor and wall mounting



**Chemical Resistance Guide\***

	<b>PVC</b>	<b>PP</b>	<b>Hypalon</b>	<b>Viton®</b>	<b>Kynar®</b>	<b>Teflon®</b>
Acetic Acid, 80%	D	B	A	E	A	A
Bleach	A	B	A	A	A	B
Citric Acid	A	A	A	A	A	A
Copper Cyanide	A	A	X	B	A	A
Copper Sulfate	A	A	B	B	A	A
Ferric Chloride	A	A	B	B	A	A
Ferric Sulfate	A	A	B	B	A	A
Hydrazine	X	X	B	B	A	A
Hydrochloric Acid (concentrated)	A	A	B	B	A	A
Hydrochloric Acid (diluted)	A	A	B	B	A	A
Hydrofluoric Acid (diluted)	D	B	D	A	A	A
Hydrogen Sulfide	C	A	B	B	A	A
Magnesium Nitrate	A	A	A	A	A	A
Magnesium Sulfate	A	A	A	A	A	A
Nitric Acid, 50%	A	C	E	A	A	A
Phosphoric Acid	B	B	A	B	A	A
Plating Baths	A	A	C	A	A	A
Potassium Cyanide	A	A	B	B	A	A
Potassium Nitrate	A	A	B	B	A	A
Propyl Alcohol	C	X	B	B	A	A
Soaps	A	A	B	B	A	A
Sodium Bicarbonate	A	A	A	A	A	A
Sodium Bisulfite	A	A	A	A	A	A
Sodium Hydroxide, 50%	A	A	B	E	A	A
Sodium Hypochlorite, 18%	A	A	A	D	A	A
Sulfuric Acid (concentrated)	A	A	B	A	A	A
Tanning Reagents	A	A	A	X	A	A
Trichlorethane	E	C	E	A	A	A

**Symbol Key**

A - Excellent                      B - Good                      C - Fair  
 D - Acceptable (limited use)    E - Not recommended    X - Unknown

\* PARTIAL LISTING

