

# OdorEyes Bellows Injection Pump

*The most important product ever to be designed  
specifically for chemical/odorant pumps!  
(Metering or injection types)*

The BIP Series of Injection Pumps are displacement pumps used to inject a liquid chemical into a pressurized pipeline. Odorant, acid, methanol and inhibitor chemicals are just a few of the products that can be injected with the BIP Series of pumps. The BIP incorporates a Teflon bellows that separates the chemical being injected from the working side of the pump, as well as from the outside environment. Thus, the hydraulic piston and seals are not subjected to the harsh environments of the chemicals which will in-turn prolong seal life and minimize the downtime needed for repairs. Unwanted leaks, odors and spills are maintained within the bellows, maximizing environmental protection.



- **Typical repairs can be completed without exposing the product to atmosphere.**
- **Stainless Steel/Teflon Check Valves.**
- **Environmental Protection from unwanted spills and leaks.**
- **Simplified Design keeps replacement parts to a minimum and repairs quick and easy.**
- **Easy and Quick repairs**

## Applications

- Odorant Systems; Mercaptan, Sulfide and Thiophene Injection
- Corrosion Inhibitor Injection
- Methanol Injection
- Acid Injection



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# Pump Specifications

## Actuator:

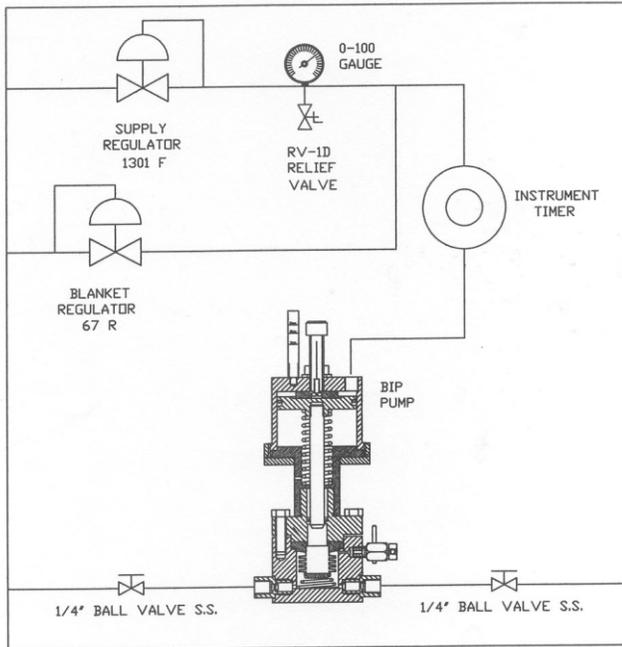
Operating Pressure..... 100 psi Maximum Supply Pressure  
 Material..... Anodized Aluminum  
 Supply Connection..... BIP-1 & BIP-3: Female, 1/4" NPT  
 BIP-2: Female, 1/8" NPT

## Wetted Parts:

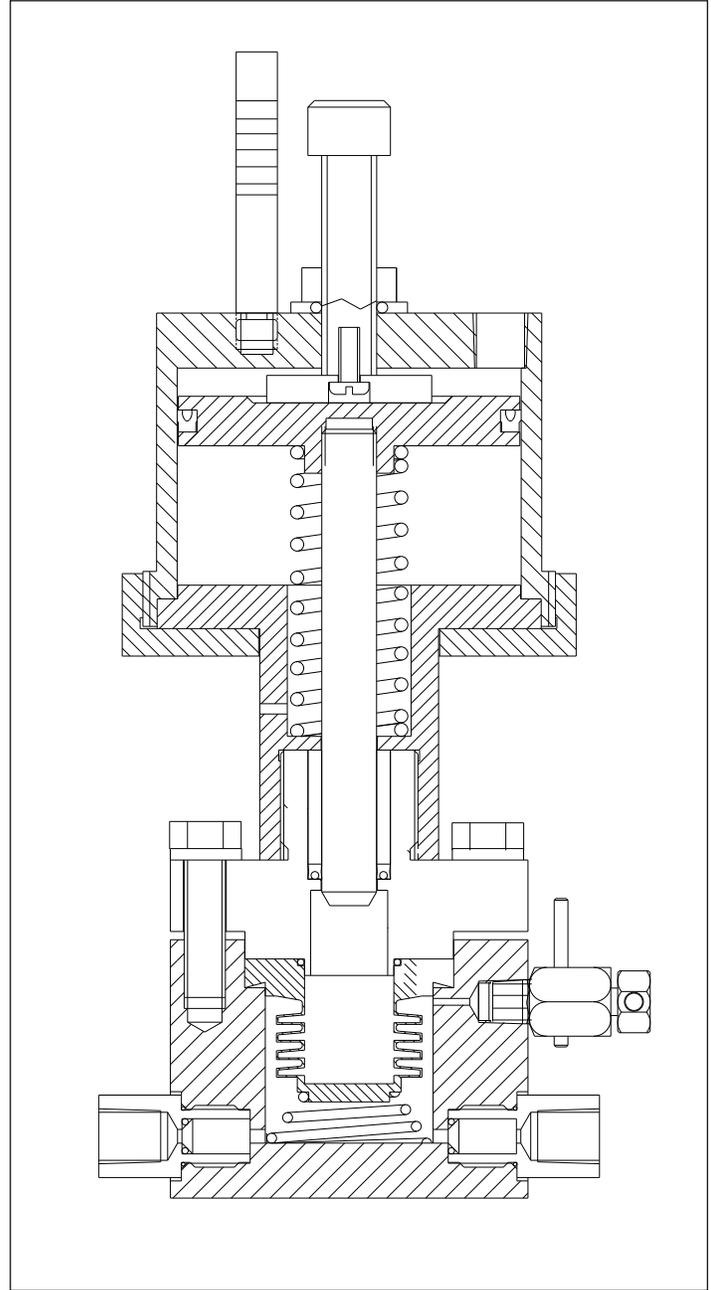
Injection Body..... 316 S.S.  
 Check Valve Body..... 316 S.S.  
 Check Valve Cartridges..... 303 S.S. (Teflon Seals)  
 Check Valve Connections..... Female, 1/4" NPT  
 Bellows..... Teflon  
 Hydraulic Seal..... Polyurethane  
 Hydraulic Piston..... 316 S.S. / Nickel Plated

## Pump:

Total Pump Weight..... 5 lbs.



Typical BIP Injection Pump Installation



## Model Specifications

Model	Liquid Piston	Gas Piston	Maximum Volume		Minimum Volume		Maximum Pressure		AMP	Strokes	Volume	Stroke
	Diameter	Diameter	Gal/Hr	Liter/Hr	Gal/Hr	Liter/Hr	PSI	Bar	Ratio	(spm)	(c.c.)	(inch)
<b>BIP-2</b>	1/4"	2"	.28	1.05	.001	.003	2,000	138	30:1	1-24	.1 - .75	1.0
<b>BIP-1</b>	1/2"	2 7/8"	1.14	4.31	.007	.026	2,160	149	30:1	1-24	.5 - 3.0	1.0
<b>BIP-3</b>	3/4"	3 1/8"	3.4	12.86	.015	.056	2,160	149	17:1	1-24	1.0 - 9.0	1.0
<b>BIP-4</b>	1-1/4"	6"	9.5	35.9	.15	.56	1,440	99	1:23	1-12	10 - 50	1.5