

## Low power consumption & electromagnetic noise

The Bimor is driven by low energy consuming piezoelectric elements. Consequently it costs very little to run and emits virtually no electromagnetic noise.

## Simple flow rate adjustment

As the flow rate of the Bimor is proportional to the voltage and frequency, adjusting the flow rate is as simple as adjusting either one. You may use the product at the rated voltage or lower.

## Application versatility

The parts can be made of several different materials, so you can select the material appropriate to your needs, be it a liquid or gas application. The Bimor is currently employed in a variety of different fields including medicine, scientific research, and the PC and chemical industries. The following "Examples of suitable chemical liquids and gases" should be used for reference only. Please confirm the suitability under any applied conditions by yourself.

## Applications



- For supply and drainage
- For cooling circulation
- For medical injection
- For sampling



- For pressure expansion
- For sampling (inhale)

Model	Voltage(AC) — 230V 50Hz				Liquid Surface Materials			Mass (g)	Examples of suitable chemical liquids and gases	Examples of unsuitable chemical liquids and gases
	Current (mA)	Self-priming Pressure(kPa)	FlowRate (mL/min)	Discharge Pressure (kPa)	Housing	Liquid Contact Sheet	Valve/O-ring			
BPS-215i	4	0.4	10	10	PP	PP	IIR	40	Ethanol, Hydrochloric acid, Sodium carbonate, Benzaldehyde, Formalin	Xylene, Mineral oil, Carbon tetrachloride, Trichloroethylene, Toluene, Benzene
BPS-235G					POM	PTFE	FKM		Ethanol, Xylene, Silicone oil, Kerosene, Toluene, Benzene	Ammonia water, Hydrochloric acid, Hydrogen peroxide, Sodium hypochlorite, Nitric acid, Sulfuric acid
BPH-214i	15	7	220	18	PP	PP	IIR	140	Ethanol, Hydrochloric acid, Sodium carbonate, Benzaldehyde, Formalin	Xylene, Mineral oil, Carbon tetrachloride, Trichloroethylene, Toluene, Benzene
BPH-214D							VMQ		Caustic soda, Carbon tetrachloride, Silicone oil, Trichloroethylene, Toluene, Benzene	
BPH-214E							EPDM		Xylene, Mineral oil, Carbon tetrachloride, Trichloroethylene, Toluene, Benzene	
BPH-214G							FKM		Ethanol, Hydrogen peroxide, Mineral oil, Sodium hypochlorite	Acetone, Ammonia water, Glacial acetic acid, Hydrofluoric acid, Formalin
							IIR	140	Ethanol, Hydrochloric acid, Sodium carbonate, Benzaldehyde, Formalin	Xylene, Mineral oil, Carbon tetrachloride, Trichloroethylene, Toluene, Benzene
						VMQ	Caustic soda, Carbon tetrachloride, Silicone oil, Trichloroethylene, Toluene, Benzene			
						EPDM	Xylene, Mineral oil, Carbon tetrachloride, Trichloroethylene, Toluene, Benzene			
							FKM	170	Ethanol, Xylene, Carbon tetrachloride, Silicone oil, Trichloroethylene	Acetone, Ammonia water, Chlorosulfonic acid, Glacial acetic acid, Hydrofluoric acid, Formalin
BPH-274G	PPS	FFKM FEP	Ethanol, Chloroform, Glacial acetic acid, Benzene, Methyl ethyl ketone	Chlorosulfonic acid, Fluorine oil, CFC 112, CFC 113						
BPH-274P	15	7	250	35						
								350	Ethanol, Aqua regia, Ozone, Carbon tetrachloride, Concentrated nitric acid, Concentrated sulfuric acid, Fuming sulfuric acid	Fluorine oil, CFC 112, CFC 113
BPF-265P	15	7	250	35	PFA		FFKM FEP	350		

**BPS**  
type

**BPH**  
type

**BPF**  
type

### Material Description

- EPDM --- Ethylene Propylene Rubber
- FEP----- Fluoroethylene Propylene
- FFKM---- Fluorine Rubber (Perfluoro)
- FKM----- Fluorine Rubber
- IIR ----- Butyl Rubber
- POM ---- Polyacetal
- PFA ----- Fluororesin (Perfluoroalkoxy)
- PP ----- Polypropylene
- PPS ----- Polyphenylene Sulphide
- PTFE ---- Tetrafluororesin (Polytetrafluoroethylene)
- VMQ ---- Dimethyl Silicon Rubber

## Durability

Longevity test : ● Sample A ● Sample B ● Sample C ● Sample D

