

Smith Precision Products Co. offers several different option MeaSUREMENT injectors which are specified according to the type of chemical to be injected. Our injectors are designed for specific groups of chemicals, and for this reason it is important that the correct option be used.

Options C, W, and F are our standard options. Option C, W, and F injectors all contain stainless steel double-ball check valves, a brass priming valve, a stainless steel chemical and dip-tube valve, and various other stainless steel fittings. Option C, W, and F injectors are designed to inject nearly all inorganic commercial fertilizer salts provided they are not acidic in nature. For these standard options, a pH below 5 is considered acidic. Option C, W, and F injectors are designed to inject Phosphoric acid, the one exception to the above.

Option P is our acid option. Option P injectors contain special acid resistant plastic polymers which include PVC chemical and priming valves (See sheet AM-4), PVC fittings, PVC single-ball check valves, PVC inserted injector head, viton o-rings, and various other plastic parts. Option P injectors are designed to inject acids other than Phosphoric. If Sulfuric, Nitric, or Hydrochloric acids are to be injected, and/or the pH of solution is less than 5, an Option P machine is recommended.

Option I should be used for insecticide/fungicide applications. Option I injectors utilize brass and stainless steel chemical and priming valves, stainless steel double ball check valves, and other stainless steel and brass pieces. Option I can be used to replace options C, W, and F, on an intermittent basis.

Various combinations of Option C, W, F, P, and I can be ordered, also depending on the chemical to be injected. In some cases, special high pressure tubing may be required. Contact factory for specifics.

SEE FLUID TABLE FOR RECOMMENDED OPTIONS. (OVER)



**SMITH**  
INJECTORS  
meaSUREMENT®  
FERT-O-JECT®

**PRECISION PRODUCTS CO.**

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FLUID TABLE

<u>LIQUID</u>	<u>RECOMMENDED OPTION</u>
AMMONIA LIQUOR	C,W,F
AMMONIATED SUPERPHOSPHATE	C,W,F
AMMONIUM NITRATE	C,W,F
AMMONIUM SULFATE	C,W,F
ANHYDROUS AMMONIA	C,W,F
BANROT	I
BENLATE	I
CALCIUM CYANAMID	C,W,F
CALCIUM PHOSPHATE	C,W,F
CAPTAN	I
CHELATED IONS	C,W,F
CHLORDANE	I
COPPER CARBONATE	C,W,F
COPPER SULFATE	C,W,F
DEXON	I
DIAMMONIUM PHOSPHATE	C,W,F
FERBAM	I
FERROUS SULFATE	C,W,F
HYDROCHLORIC ACID	P
KELTHANE	I
KINOPRENE	I
MALATHION	I
MANGANESE SULFATE	C,W,F
METALDEHYDE	I
MURIATE OF POTASH	C,W,F
NITRIC ACID	P
PENTAC	I
PHOSPHORIC ACID	C,W,F
POTASSIUM CHLORIDE	C,W,F
POTASSIUM NITRATE	C,W,F
POTASSIUM PHOSPHATE	C,W,F
POTASSIUM SULFATE	C,W,F
PREMIXES	C,W,F
SEVIN	I
SODIUM MOLYBDATE	C,W,F
SODIUM NITRATE	C,W,F
SULFURIC ACID	P
TEMIK	I
TERRACHLOR	I
TERRAZOLE	I
TRUBAN	I
UREA	C,W,F
ZINC SULFATE	C,W,F

NOTE: THIS TABLE IS DESIGNED TO INDICATE RECOMMENDED OPTION ONLY. CHECK WITH YOUR LOCAL PESTICIDE USE ENFORCEMENT OFFICER TO ENSURE THE CHEMICALS YOU PLAN TO USE ARE LEGAL FOR INJECTOR APPLICATION IN YOUR AREA. THIS IS IMPORTANT AS SOME OF THE LISTED CHEMICAL LIQUIDS MAY BE ILLEGAL FOR INJECTOR APPLICATION IN YOUR AREA.

It must be noted that the above chemicals are the most common ones that we've run across. There most certainly are many others that are not listed here. It must also be noted that some combinations of the above chemicals are not recommended for solution application through our injectors, as the end product released may be harmful to that particular option. A good rule to follow is to mix like chemicals. Mix Sulfates with Sulfates and Nitrates with Nitrates. DO NOT MIX NITRATES WITH SULFATES. If Phosphoric acid is to be injected, DO NOT MIX WITH ANY SOLUBLE FERTILIZER SALT; inject it separately. (See Sheet AM-7)