

The references below of available valve component materials and line media are a guide only. It is to be used as a basis for selecting suitable valve component materials to the applicable line media. In no way does this guide guaranty full valve component and line media compatibility. Only testing of components with line media assures compatibility.

The customer and or engineering firms representing the customer bares the full responsibility of complete compatibility of valve components with line media. In no way will **Flow Line Valve and Controls, L.L.C.** assume the responsibility for chemical resistance on various valve components that may affect the life expectancy of the valve.

The customer and or engineering firm representing the customer should always take into consideration factors of temperature, combinations of media components and media concentrations. The customers performing their own test are the only positive way of assuring compatibility.

INTRODUCTION:

Generally Nylon 11 has good resistance to bases, salts, salt solutions, marine environment, oils, greases, and other petroleum products. Also areas of high success of Nylon 11 are calcium chloride, zinc chlorides. Electrolytic corrosion in industrial atmosphere and salt-water environments has no effect on Nylon 11.

When considering Nylon 11 for a particular application, the following should be considered. Resistance to organic acids, mineral salts, and oxidizing agents vary with each chemical group. Always temperature and chemical concentrations affect resistance from attack of the line media. Also consideration for mixing of chemicals can produce a negative reaction to Nylon 11.

E = EXCELLENT		G = GOOD		U = UNSATISFACTORY		O = NOT TESTED	
	<u>Concentration</u>	68° (20° C)	104 F° (40° C)	140 F° (60° C)			
Acetaldehyde		E	G	U			
Acetic Acid	5%	E	E	E			
Acetic Acid	10%	E	E	G			
Acetic Acid	50%	G	O	U			
Acetic Anhydride		G	U	U			
Acetone	Pure	E	E	G			
Acetylene		E	E	E			
Aluminum Sulfate	Sat. Sol.	E	E	E			
Ammonia	Liquid or Gas	E	E	E			
Amonium Hydroxide	Concentrated	E	E	E			
Ammonium Nitrate		E	E	E			
Ammonium Sulfate	Sat. Sol	E	E	G			
Amyl Acetate		E	E	E			
Aniline	Pure	G	U	U			
Barium Chloride		E	E	E			
Beer		E	O	O			
Benzaldehyde		E	G	U			