

Butterfly Valve Materials Selection
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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.

| | E = EXCELLENT | | G = GOOD | | U = UNSATISFACTORY | | O = NOT TESTED | |
|--------------------------------|-------------------------|--------|----------|-----------------|--------------------|------|----------------|--|
| | Nickel PI Duct. Iron | 416 SS | 316 SS | Alum. Bronze | Buna-N | EPDM | Viton | |
| Phenylethyl Ether | O | O | O | O | U | U | U | |
| Phenyhydrazine | O | O | O | O | U | G | E | |
| Phorone | O | O | O | O | U | O | O | |
| Phosphoric Acid 10% 70 ° F | U | U | G | U | G | E | E | |
| Phosphoric Acid 25% 70 ° F | U | U | G | U | E | E | E | |
| Phosphoric Acid 75% 70 ° F | U | U | G | U | U | E | E | |
| Phosphorous Oxychloride | U | O | U | O | O | O | O | |
| Phosphorous Trichloride | O | O | U | O | G | G | G | |
| Photographic Solutions | O | O | E | O | O | O | G | |
| Pickling Sol. (20% Nitric-4HF) | U | O | G | O | O | U | E | |
| Picric Acid 80% 70° F | U | O | E | O | U | G | E | |
| Pine Oil | O | O | O | O | G | U | E | |
| Plating Solutions | O | O | G | O | O | G | G | |
| Polyvinyl Acetate | O | O | O | O | O | G | O | |
| Potash | O | O | O | O | O | G | O | |
| Potassium Bisulfate | O | O | O | O | E | E | E | |
| Potassium Bromide | - | O | G | O | E | E | E | |
| Potassium Carbonate | G | O | E | E | E | E | E | |
| Potassium Chlorate | O | O | G | O | G | E | E | |
| Potassium Chloride | U | O | G | E | E | E | E | |
| Potassium Cyanide | U | G | E | U | E | E | E | |