

Butterfly Valves Material Selection

Chemical Agent	Bronze	Cast Iron	Cast Steel	SS316	Monel	EPDM	NBR	VITON	Natural Rubber
Acetone	E	G	G	E	E	G	U	U	E
Acetylene	E	G	G	E	-	U	F	U	-
Alcohol methyl	E	U	-	E	E	E	G	U	G
Alumina	G	G	-	G	G	E	E	G	G
Amonia solutions	U	F	-	E	G	E	G	U	G
Benzene	E	F	G	E	G	U	U	G	U
Bunker oil	F	U	U	E	E	U	F	F	U
Carbon dioxide	E	F	G	E	-	G	G	E	G
Chlorobenzene	E	F	F	E	E	U	U	G	U
Crude oil	U	U	G	E	E	U	F	E	U
Diesel fuel	F	U	E	E	E	U	E	E	U
Ethyl glycol	E	G	G	E	E	E	E	E	G
Fruit juices	U	U	-	E	-	G	G	-	-
Fuel oil	E	F	E	E	G	U	F	E	U
Gasoline	G	F	G	E	G	U	E	E	U
Glycerine glycerol	G	F	E	E	G	-	E	E	-
Hydraulic oil (petroleum based)	U	U	E	F	F	U	F	F	F
Hydraulic oil (water based)	E	U	E	E	U	E	F	U	F
Kerosene	E	E	E	E	E	U	E	E	U
Lubricating oil	E	E	E	E	E	U	E	E	U
Milk	-	U	E	E	-	E	E	E	E
Mineral oil	-	F	E	F	-	U	E	E	U
Napthalene	E	F	E	E	-	U	U	G	U

Chemical Agent	Bronze	Cast Iron	Cast Steel	SS316	Monel	EPDM	NBR	VITON	Natural Rubber
Natural gas	E	G	E	E	-	U	E	E	U
Olive oil	-	-	E	E	-	G	E	E	U
Oxygen 200 F	E	E	E	E	E	E	G	E	F
Oxygen 300 F	E	E	E	E	E	U	U	G	U
Petroleum	F	U	E	G	G	U	E	E	U
Phenol	-	U	E	E	E	U	U	E	U
Potassium nitrate	F	F	E	E	G	E	E	E	E
Potassium phosphate	-	U	-	G	-	-	E	E	-
Propane	E	F	E	E	-	U	E	E	-
Resins	E	U	-	E	-	-	-	G	F
Sea Water	G	F	F	G	E	E	G	E	-
Sodium chloride	E	U	G	E	E	E	E	E	E
Sodium nitrate	G	U	G	E	G	E	G	-	G
Steam 300 F	G	U	E	E	E	E	U	U	U
Sulphur molten	U	U	F	G	U	E	-	E	-
Sulphur dioxide	F	U	E	E	E	G	U	E	U
Sulphur trioxide	-	U	G	E	-	-	U	E	U
Tar	E	F	E	E	E	U	U	G	U
Turpentine	G	U	G	E		U	U	E	U
Varnish	E	E	E	E	E	U	F	E	U
Water distilled	U	U	G	E	-	E	G	-	-
Water fresh	E	F	G	E	E	E	G	-	E
Water sewage	E	U	G	E	E	E	G	-	-

- (E) - Excellent
- (G) - Good
- (F) - Fair
- (U) - Unsatisfactory
- (-) - Insufficient Data Available

The information stated above is intended as a recommendation and suggestion based on current available data. World Wide Metric, Inc. assumes no liability or responsibility for results or damages incurred through the application of the data presented.