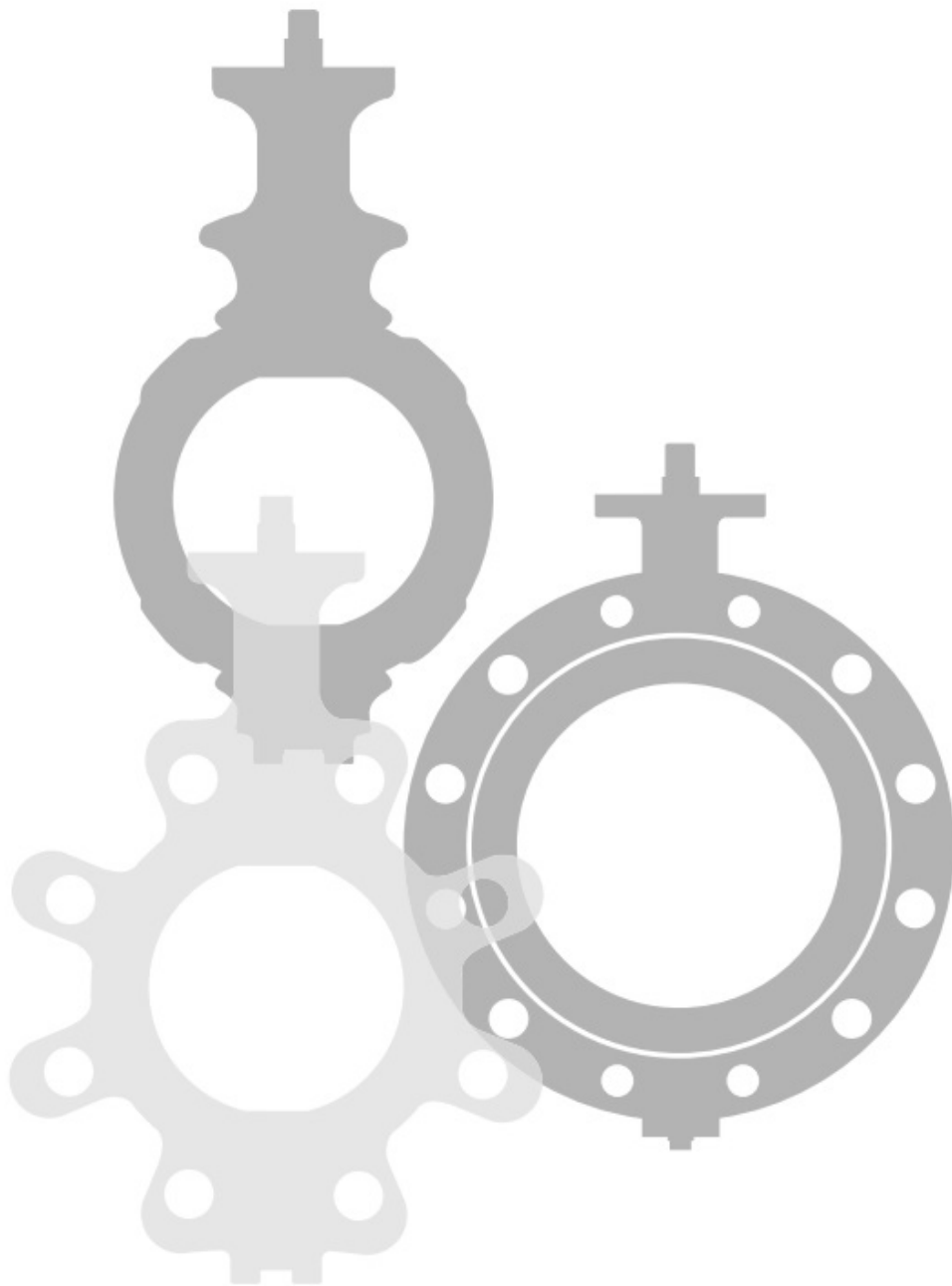




# Material Selection Guide



**Material selection**

No.	FLUID	DISK									SEAT RING										
		Ductile	304 S. S.	316 S. S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon				
A																					
	Abietid acid		B	B	B	B	A														
	Acetal	C		A				A	C							C	A				
	Acetaldehyde	C	B	A	A	A	A	A	C	C	A					C	B	A			
	Acetamide	C		A					C	C						C	B	A			
	Acetate Dope	C		A				A	C							C		A			
	Acetic acid (10%)	B	A	A	A	A	A	A	C	C	A					B	B	B	B	A	A
	Acetic acid (30%)	C	B	A	B	A	A		C	C	A					B	B	B	B	A	
	Acetic acid (Glacial)	C		B				A	C		A					C	B	B	C	A	A
	Acetic acid (Less 50%)	C		A				A	C	C	A					C	A	B	C	A	A
	Acetic acid + Acetaldehyde	A	A	A					A												
	Acetic acid + Ether			A							A										
	Acetic acid + Ethyl Alcohol				B						A										
	Acetic acid + Formic acid			B	A		A		C		B										
	Acetic acid + Hydrobromic acid	C	C	C	C				C	C											
	Acetic acid + Hydrochloric acid	C	C	C	C				C	C	B										
	Acetic acid + Salicylic acid (Vapor)		B	B	B	B			C												
	Acetic acid + Sulfuric acid	C	C	C	B				C	C	B										
	Acetic acid Vapor	C	C	B	B	A	A	A	C	C	A					C	B	A		B	A
	Acetic Anhydride	C	B	A	B	A	A	A	C	C						C	A	C	C	B	A
	Aceton	A	A	A	A	A	A	A	A	B	A					C	B	A	C	B	A
	Acetonitrile	C		A					C	C						C	B			B	
	Acetophenetidine		B	B	B	B	A														
	Acetophenone	C	B	A	A	B	A	A	C							C	C	A	C	A	A
	Acetotoluidine		B	A	A	B	A														
	Acetylaceton	C	B	A	B	B	A	A	C	C	A					C	C	D	C	C	A
	Acetylchloride	C	B	B	C			A	C	C	A					C	C			C	A
	Acetylene	A	A	A	A	A	A	A	A	A	A					B	B	A	A	B	A
	Acetylsalicylic		B	B	A	B	A				A										
	Acetylthiophene		B	B		B	A														
	Acid Sludge	C		A				A	C		A					C				B	A
	Acrolein		B	B	B	B	A		C												
	Acrylonitrile	A	A	A	A	A	A	A	A	A	A					C	C	C	C	C	A
	Adipic acid		B	B	B	A	A		B		A										
	Air (Less than 65°C)	A	A	A				A	A	B	A					A				A	A



**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S.	316 S. S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon	
	Ammonium Fluoride	C	C	C					C	C								
	Ammonium Fluosilicate		B	B														
	Ammonium Formate		B	B			A	A					C	C	C	A	C	A
	Ammonium Hydroden Fluoride			B	B	A												
	Ammonium Hydroxide	C		A					C	C	A		A	A	B	C	B	
	Ammonium Metaphosphate	C	B	A	B	B			C				B				A	
	Ammonium Molybdate		B	B					C									
	Ammonium Nitrate	B	A	A	B	B		A	B	C	A		A	A	A		A	A
	Ammonium Nitrate Solution	C		A					C				B	A			A	
	Ammonium Oxalate		B	B	B	B												
	Ammonium Persulfate		B	B	C	B		A					A	A			A	A
	Ammonium Phosphate	C	B	A	B			A	C	B	B		B	A	A	A	A	A
	Ammonium Picrate				B													
	Ammonium Polysulfide		B	B	B	B												
	Ammonium Sulfamate	C	C	C	C		A	A	C	C	B		C	C	C		C	A
	Ammonium Sulfate	C	C	C			A	A	C	B			A	A	A	A	A	A
	Ammonium Sulfate +Free Sulfuric acid	C	C	B	B				C	C								
	Ammonium Sulfide	B	B	A	A			A			A		A	A		A		A
	Ammonium Sulfite										B							
	Ammonium Thiocyanate	C	B	A	B	A		A	C		A		B				C	A
	Ammonium Thiosulfate	C	B	A				A	C				C				C	A
	Amyl Lanrate		B	B	B	B	A		C									
	Amyl Acetate	C	B	A	A	A	A	A	C		A		C	C	C	C	B	A
	Amyl Alcohol	C	A	A			A	A	C	C	A		B	B	A	B	A	A
	Amyl Borate	C	C	C				A	C	C			A	A	C	A	C	A
	Amyl Chloride	C	B	A	B	B		A	C		A		C	A		A	C	A
	Amyl Chloronaphthelene	C	C	C				A	C		B		C	C	C	A	C	A
	Amyl Mercaptane		B	B	B	A												
	Amyl Napthelene	C						A	C		A		C	C	C	A	C	A
	Amyl Nitrate		B	B														
	Amyl Phenol		B	B	B	B	A				A							
	Amyl Propionate		B	B	B	B	A											
	Analine Aniline Oil	C						A	C	C	A		C				C	A
	Analine Dyes	C						A	C	C	A		C				C	A
	Aniline	B	B	B	B	B	A	A	B	C	A		C	C	A	B	C	A

**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S	316 S. S	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS		N. B. R	C. R	I. I. R	F. K. M	EPDM	Teflon
	Aniline Hydrochloride	C	C	C	C	C		A	C	C								A
	Anilline Sulfate		B	B	B	B	A		C									
	Animal Fats	A	A	A				A	A	A	A		A				C	A
	Animal Oil	A	A	A				A	A	A	A		A			A	C	A
	Antimony Chloride	C	C	C				A	C		B		C			A	C	A
	Antimony Pentachloride				B	B												
	Antimony Pentafluoride				B													
	Antimony Trichloride				B	A				C								
	Aqua Regia	C	C	C	C	C	A	A	C	C	B		C	C	C	C	C	A
	Arsenic acid	C	B	A		B		A	C				B	A	A	A	A	A
	Arsenic Trichloride	C	C	C	B	B		A	C	C	B		C				C	A
	Arsenic Trioxide		B	B	B	B												
	Asphelt	A	A	A				A	A				B	C	C	A	C	A
	Atmosphere (Industrial)	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A
	Atmosphere (Morine)	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A
	Atmosphere (Rural)	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A
	Azobenzene		B	B	B	B	A				A							
B																		
	Bacitracine		B	B		B												
	Baking Sods (Sodium Bicarbonate)	C		A				A	C		A		A				A	A
	Bardol B	A	A	A				A	A				C				C	A
	Barium Carbonate	C	B	A	B	B		A	C		A		B	A	A	A	A	A
	Barium Chlorate		B	B	B	B	A											
	Barium Chloride	C	C	B	B	B		A	C	A	A		B	A	B	A	A	A
	Barium Cyanide																	
	Barium Hydroxide	B	B	A	A	B		A	B		A		B	A	A	A	A	A
	Barium Nitrate		B	B		B							B	A				
	Barium Oxide		B	B	B	B		A			A		B	A	A	A	A	A
	Barium Sulfate	C	B	A				A	C		A		A	A	A	A	A	A
	Barium Sulfide	C	B	A	C		A	A	C				A	A		A	A	A
	Barium Sulphate	C		A					C				A	A	A		A	
	Beer (Alcohol Industry)	C		A				A	C		A		A	A	A	A	A	A
	Beer (Breweries)	C		A				A	C		A		A	A	A	A	A	A
	Beer Sugar Liquors	C		A				A	C		A		A	A	A	A	A	A
	Benzaldehyde	A	A	A	B	B		A	A		A		C	C	B		C	A













**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S.	316 S. S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS		N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon
	Cetyl Alcohol		B	B	B		A											
	Chaulmoogric acid		B	B	B	B												
	China, wood, Oil (Tung oil)	C		A				C				A	A			B		
	Chloranil			B	B		A	C										
	Chlordane		B	B		B		C										
	Chloric acid	C	C	C		A		A	C	C								A
	Chloride Gas	A	A	A	B	B	C	A			A		C	C	C	A	C	A
	Chlorinated Solvents	C		B				A	C		A		C				C	A
	Chlorinated Water	C	C	C		A	A	A	C	C	B							A
	Chlorine Dioxide	C	C	B		B	A	A	C				C	C	C	A	C	A
	Chlorine Water (3%)	C		A				A	C	C	A		C	C	B	A	B	A
	Chlorine Water (Saturated)	C		A				A	C	C	A		C	C	C	A	B	A
	Chloro-Alkyl Ethers				B	B					A							
	Chloroacetic acid	C	C	C	C	A	A	A	C		B		C	A	A		C	A
	Chloroacetone				B	B		A			A		C	B	C	C	A	A
	Chloroacetyl Chloride	C	C	C		B			C	C								
	Chloroacide acid	C	C	C				A	C	C			C				C	A
	Chloroaminobenzoic acid		B	B	B	B	A		C		A							
	Chloroaniline		B	B	B	B	A		C		A							
	Chlorobenzaldehyde		B	B	B	B												
	Chlorobenzene	C	B	A	B	B	A	A	C	C	A		C	C	C	A	C	A
	Chlorobenzotrifluoride		B	B	B	B	A											
	Chlorobromomethane	C	B	B	B	B		A	C	C	A		C				C	A
	Chlorobromopropane	A	A	A	B				A		A							
	Chlorobutadiene	C		A				A	C		A		C			A	C	A
	Chlorobutane	C	C	C	B	B			C	C	B							
	Chloroethane Sulfonic acid					B	A				A							
	Chloroethylbenzene		B	B	B	B			C		A							
	Chloroform	C	A	A	A	B		A	C		A		C	C	C	B	C	A
	Chlorohydrin		B	B	B	B			C									
	Chloronaphtalene		B	B	B	A			C		A							
	Chloronitrobenzene		B	B	B	B	A		C		A							
	Chlorophenohydroxy acetic acid		B	B	B	B			C	C								
	Chlorophenol	C	B	B	B	B		A	C	C	A		C				C	A
	Chlorophenol Sulphonic acid Soln	C	C	C				A	C	C	B		C				C	A

**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S.	316 S. S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon	
	Chloroprene		B	B	B	B			C	C								
	Chloroquine		B	B	B	B	A											
	Chlorosilanes		B	B	B	B			C									
	Chlorosulfonic acid		B	B	B	A		A	C		A		C	C	C	C	A	
	Chlorotoluen Sulfonic acid					B	B											
	Chlorotoluene	C	B	B	B	B	A	A	C	C	A		C	C	C	A	C	A
	Chlorotoluidine		B	B	B	B			C									
	Chlorotrifluoroethylene		B	B	B	B			C									
	Chlorox	C		A					C				B				A	
	Chloroxylenols		B	B	B	B			C		A							
	Chloroxylols		B	B	B	B			C									
	Cholesterol		B	B	B	B	A		C									
	Chrome-Alum. Soln, (Tanning liquors)	C		A					C				B				A	
	Chromic acid	C	C	B	C	B		A	C	C			C	C	B	A	C	A
	Chromic Chloride	C	C	C				A	C	C	B							A
	Chromic Glucosates		B	B	B	B	A											
	Chromic Hydroxide		B	B	B	B												
	Chromic Nitrates		B	B		A												
	Chromic Phosphate		B	B	B	B	A		C									
	Chromic Sulfates	C	C	C	C	B			C	C								
	Chromic Sulphate Soluion	C	C	C				A	C	C			B				C	A
	Chromium Potassium Sulfate		B	B	B	B			C									
	Chromium Sulfate (Basic)		B	B	B				C									
	Chromyl Chloride		B	B	B	B	A	A										
	Cider	C		A					C				A				A	
	Citric acid	C	B	A	B	A		A	C	B	A		A	A			A	A
	Citric acid Soln	C		A					C				B	A	B	A	A	
	Citrus Juices	C		A					C		A		A				A	
	Cobalt Acetate					B												
	Cobalt Chloride (2N)	C	C	C				A	C	C	B		C	A	A		B	A
	Coca Cora Syrup	C		A				A	C		A		C				C	A
	Cocoanut Oil	C		A					C				A			A	C	
	Cod Liver Oil	C		A					C				A			A	B	
	Coffee (Dry)	C		A					C		A		A				A	
	Coffee Extract	C		A					C		A		A				B	





**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S	316 S. S	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS		N. B. R	C. R	I. I. R	F. K. M	EPDM	Teflon
	Diglycolic acid	C	B	B	B	B	A		C									
	Diglycolic acid-Dibutyl Ether	C	B	B	B	B	A		C									
	Diisobutyl	C	B	B	B	B	A		C									
	Diisobutyl Ketone	A	A	A		A			A		A							
	Diisopropyl Ketone	C		A				A	C				C	C	B		C	A
	Dimethyl Ether	C	B	B	B	B	A		C		A							
	Dimethyl Formamide	C		A				A	C				C				C	A
	Dimethylaniline	C	A	A					C				C	C	C		B	
	Dimethylphenyl Methanol	C	B	B	B	B	A		C		A							
	Dioctyl phthalate	C		A				A	C		A		C			A	C	A
	Dioxane	C	B	A	A	B	A	A	C		A		C				C	A
	Dipentens	C		A				A	C		A		C	C	C	A	C	A
	Diphenyl	C	B	A	B	B	A	A	C				C		C	A	C	A
	Diphenyl Carbonate	C		A					C				A				C	
	Diphenyl Chloride	C	B	B	B	B		A	C	C								A
	Diphenyl Oxide	C		A				A	C				C			A	B	A
	Diphenylamine	C	B	B	B	A	A		C									
	Diphenylpropane	C	B	B	B	B	A		C									
	Disodium Phosphate	C	A	A					C				A				C	
	Dispersing Oil WIO	C		A				A	C				C				C	A
	Distilled Water (Aerated)	A	A	A	A			A	A		A		A	A	A	A		A
	Distilled Water (Air Free)	A	A	A	A			A	A		A		A	A	A	A		A
	Dithio Acid Liquid				C	A												
	Dithio Acid Vapor	C				A			C									
	Dowtherm	B	A	A				A	B	C			C	C	C	A	C	A
	Dowtume W-40 100% (Fumignet)	C	A	A				A	C				C				C	A
	Drilling Mud (Petroleum & Water Base)	C	A	A					C		A		A				C	
	Drying Oil	C	A	A				A	C		A		B				C	A
	Dyes	A	A	A				A	C	C	A		C				C	A
E																		
	Epichlorohydrin	C	A	A	A	A		A	C				C	C	B	C	C	A
	Eposom Salt (Magnesium Sulphate)	C		A					C				A				C	
	Epoxy Resins	C	A	A				A	C		A		C				C	A
	Ethane	A	A	A	A	A	A		A									
	Ethanol (Ethyl Alcohol)	C	B	A	A	A	A	A	C		A		B	B	A	B	A	A

**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S.	316 S. S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon	
	Ethanol amine	C	B	A			A	A	C		A		B	A	B	C	B	A
	Ethers	C	B	A				A	C		A		C				C	A
	Ethyl Acetate	C	B	A	B	B	A	A	C		A		C	C	C	C	C	A
	Ethyl Acetoacetate	C		A				A	C		A		C	C	B	C	C	A
	Ethyl Alcohol	C	B	A	A	A	A	A	C	C	A		B	B	A	B	A	A
	Ethyl Benzene	A	A	A	B	A	A	A	A		A		C	C	C	A	C	A
	Ethyl Benzoats	A	A	A				A	A		A		C				C	A
	Ethyl Butyrate	C	B	B	B	B	A	A	C				C	C			C	A
	Ethyl Cellosolve	C	C	C				A	C		B		C	C	C	C	C	A
	Ethyl Cellulose		B	B	B	B	A	A			A		C	C	B	C	C	A
	Ethyl Chloride	B	A	A	B	B	A	A	B				B	B	A	B	A	A
	Ethyl Chloride (Dry)	B	A	A					B				B	B	A	B	A	
	Ethyl Ether	C	A	A	B	B	A	A	C		A		C	C	C	C	C	A
	Ethyl Formate	C	B	A	B	B	A	A	C				C	C	C	A	C	A
	Ethyl Lactate	C	B	B	B	B	A		C									
	Ethyl Mercaptan	C	B	A		B		A	C		A		C	C	C	A	C	A
	Ethyl Oxalate	C		A				A	C				C	C	B	A	B	A
	Ethyl Pentachlorobenzene												A	C			C	
	Ethyl Silicate	C		A					C				A	A	A	A	A	
	Ethyl Stearate	C	B	B	B	B	A		C		A							
	Ethylendiamine	C	B	A		A		A	C				B	A	C		C	A
	Ethylene	A	A	A	A	A	A		A									
	Ethylene Bromide	C		A				A	C		A		C				C	A
	Ethylene Chloride	C	B	A	B	A		A	C				C	C	C	B	C	A
	Ethylene Chlorohydrin	C	B	B	B	B	A	A	C				C				C	A
	Ethylene Cyanohydrin	C	B	B	B	B	A		C									
	Ethylene Dichloride	A	A	A	A	A	A	A	A		A		C				C	A
	Ethylene Dichloride	C	B	B	B	B	A		C									
	Ethylene Glycol	A	A	A					A		A		A	A	A	A	A	
	Ethylene Oxide	C	B	B	B	A	A	A	C	C	A		C	C		C	C	A
	Ethylene Trichloride	C		A				A	C				C	C	C	B	C	A
	Ethylsulfonic acid					B	A				A							
F																		
	Fatty acids	C	B	A	B	A	A	A	C		A		B	B		A	C	A
	Feran	C	B	A				A	C				C				C	A



**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S	316 S. S	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R	C. R	I. I. R	F. K. M	EPDM	Teflon	
	Ferric Chloride	C	C	C	C	C	A	A	C	C	B		B	A	A	A	A	A
	Ferric Hydroxide		B	B														
	Ferric Nitrate	C	B	A		B		A	C		A		B	A		A	A	A
	Ferric Sulfate	C	B	A	B				C				B	A	A		A	
	Ferrous Ammonium Citrate					B												
	Ferrous Ammonium Sulphate	C	C	C				A	C				C	A			C	A
	Ferrous Chloride	C	C	C	C	B	A	A	C	C	B		B	B	A		A	A
	Ferrous Sulfate	C	B	A	B	B		A	C				B	A	A	A	A	A
	Ferrous Tartrate					A												
	Fish Oil	C	A	A				A	C	B	A		A			A	C	A
	Fluid Resins	A	A	A				A	A				C				C	A
	Fluoboric acid	A	A	A	A	A		A	A		A		C	A			C	A
	Fluocarboxylic acid	C	B	B	A	B			C									
	Fluorine	C	A	A	A	B		A	C	C	A		C				C	A
	Fluorobenzene	C		A				A	C		A		C		C		C	A
	Fluorocarbon Oil	C		A				A	C		A		C		A		A	A
	Fluorophenolsulphonie Acid Soln	C	C	B				A	C	C	A		C				C	A
	Fluosilicic acid	C	C	C	A	B		A	C	C			C				C	A
	Formaldehyde	C	A	A	A	B		A	C		A		C	B	A	B	A	A
	Formaline (40% Formaldehyde)	A	A	A	B	B	A	A	A	C	A		C	B	A	B	A	A
	Formamide	C	B	A	B	B	A	A	C		A		B				C	A
	Formic acid	C	B	A	B	A	B	A	C	C	B		C	B	A	C	B	A
	Freon 11	C		A				A	C		A		A				C	A
	Freon 113	C		A						C			B	A	C	B	C	
	Freon 114	C		A						C			A	A	A	B	A	
	Freon 114B2	C		A						C			C	A	C	B	C	
	Freon 115	C		A						C			A	A	A	B	A	
	Freon 12	C		A				A	C		A		A	A		A	B	
	Freon 13	C		A						C			A			A	A	
	Freon 1321	C		A						C			A				A	
	Freon 21	C		A				A	C		A		C	B	C	C	C	A
	Freon 22	C		A						C			C	A			A	
	Freon 502	C		A						C			C				A	
	Freon C318	C		A						C			A				A	
	Fruit Juice	C	A	A				A	C		A		A				A	A





**Material selection**

No.	FLUID	DISK										SEAT RING					
		Ductile	304 S. S.	316 S. S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon
	Hypo (Sodium Thiosulphate)	C		A				C				B				A	
	Hypochlorites (Sodium) (20%)	C	C	C				A	C	C	B	C	B	B		B	A
	Hypochlorous acid	C	C	C	C	A	A		C	C	B						
I																	
	Indole	A	A	A	A	A	A		A								
	Iodide	C	B	B	A	A	A	A	C		A	C	C			C	A
	Iodoform	A	A	A	B	B	A		A								
	Iron Potassium Sulfate	C	C	C	B	B			C								
	Isatin	A	A	A	A	A	A		A								
	Isoamylalcohol	C	C	C				A	C		B	B				B	A
	Isobutyl Alcohol	C		A					C		A	C	A	A	A	A	
	Isobutyl Phosphate	C	B	B	B	B	A		C								
	Isobutyric Acid Soln	C		A				A	C		A	B				C	A
	Isododecane	A	A	A					A			A				C	
	Isooctane	A	A	A					A			B	B	C	A	C	
	Isophorane	A	A	A				A	A		A	C				C	A
	Isopropanol	C	B	B	B	B		A	C	C	A	C	C	A	C	A	A
	Isopropyl Alcohol	A	A	A					A		A	B	B	A	A	A	
	Isopropyl Chloride	C	C	C				A	C			C	C	C	A	C	A
	Isopropyl Ether	A	A	A				A	A		A	B	B	C	C	C	A
J																	
	Jet Fuels (JP-1 to JP-5)	C	B	A					C			A					C
K																	
	Kalchop	C		A					C			A				A	
	Kerosene	B	A	A				A	B	A		B	C	C	A	C	A
	Ketone	A	A	A				A	A		A	C				C	A
L																	
	Lacquers & Solvents	A	A	A				A	A		A	C	C	C	C	C	A
	Lactic acid	C	B	A		B	A	A	C	A	A	B	A	A	A	A	A
	Lactic acid Vapors	C	B	B	C				C								
	Lactol (Aliphatic Naphtha)	C	A	A				A	C			C				C	A
	Lard (Animal Fat)	C	A	A					C		A	A				C	
	Latex-Stripped	C		A					C			A				C	
	Latex-Unstripped	C		A				A	C			C				C	A
	Lavender Oil	C		A				A	C		A	B	C	C	A	C	A

**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S	316 S. S	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS		N. B. R	C. R	I. I. R	F. K. M	EPDM	Teflon
	Lead Acetate	C	B	B	B	B	A		C				C	B	A		A	
	Lead Arsenate	C	B	B	B	B			C									
	Lead Bromide	C	C	C	C	C			C	C								
	Lead Carbonate	C	B	B	B	B			C									
	Lead Chloride	C	B	B		B			C	C								
	Lead Chromate	C	B	B	B	B			C	C								
	Lead Nitrate	C	B	B	B	B			C				B	B			A	
	Lead Oxide	C	B	B	B	B			C									
	Lead Peroxide	C	B	B	B	B			C									
	Lead Sulfate	C	C	B	B	B		A	C				B	A			A	
	Lead Sulphamate	C	C	C				A	C				B	A	A	A	A	
	Lead Tetraacetate	C	B	B		B			C									
	Lead Thiocyanate				B	B												
	Lead Trinitroresorcinate	C	B	B	B	B			C									
	Levulinic acid	C	B	B	B				C									
	Lime (Calcium Hydroxide Soln)	C		A					C				B				A	
	Lime-Sulphur (Dry)	C		A					C	C			B				A	
	Lindol	C		A				A	C				C	C	A	B	A	A
	Linoleic, Acid	C		A				A	C		A		B	C	C	B	C	A
	Linseed Oil	A	A	A	B	B		A	A		A		A	A	B	A	C	A
	Liquid Soap	C		A					C				A					A
	Liquified Petroleum Gas (LPG)	C		A					C		A		A	B	C	A	C	
	Liquors (Pulp & paper)	C		A					C				B				B	
	Lithium Chloride	A	A	A	A	A			A									
	Lithium Hydroxide	C	B	B	B	B			C									
	Lithium Hypochlorite	C	C	C	B	B			C	C								
	Lithopons	A	A	A	A	A			A									
	Lubrication Oils	A	A	A				A	A		A		A	B	C	A	C	A
M																		
	Magnesium Ammonium Sulphate	C	C	C				A	C				C	A			C	A
	Magnesium Bisulphate	C		A					C				A	A	A		A	
	Magnesium Carbonate	C		A					C				A	A			A	
	Magnesium Chloride	C	C	B	A	A		A	C	A	A		B	A	A		A	A
	Magnesium Hydroxide	B	B	A	B			A	B		A		B	A	A	A	A	A
	Magnesium Nitrate	C	B	A	B	B		A	C		A		B	A	A	A	C	A

**Material selection**

No.	FLUID	DISK										SEAT RING					
		Ductile	304 S.S.	316 S.S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon
	Magnesium Oxide	A	A	A				A			A	A			A		
	Magnesium Silicofluoride	C	B	B	B	B		C									
	Magnesium Sulfate	C	B	A	B	A		A	C		A	B	A	A	A	A	
	Magnesium Sulphate with wet Lime Sulfur	C	B	A	B	B		A	C		A	B	A	A	A	C	
	Maleic acid	C	B	A		B		A	C		A	B	A	A	A	C	
	Maleic acid	A	A	A			A		A								
	Maleic Anhydride Solu	C		A					C			B				C	
	Maleic Anhydride Vapors	C	B	B	B	A		A	C			B				C	
	Manganese Chloride	C	B	B		B			C								
	Manganese Sulfate				B	B											
	Manganous Chloride	C	B	B	C				C								
	Mash (Breweries)	C	B	A					C			B				A	
	Master Kill Emulsion	C	C	C				A	C		B	B				C	
	Mercaptans	C	B	B				A	C		A	C				C	
	Mercuric Bichloride	C	C	C		B			C								
	Mercuric Chloride							A			A	C	B	B	A	A	
	Mercuric Cyanide	C	B	B		B		A	C		A	B				C	
	Mercurous Nitrate	C	B	A		B		A	C		A	B				C	
	Mercury	C	A	A	B	B		A	C		C	A	B	A	A	B	
	Mesityl Oxide	C	C	C				A	C			C	C	C		C	
	Methacrylates	C		A				A	C			C				C	
	Methacrylic Esters	C		A				A	C			C				C	
	Methane Liquid (126°C)	C		A				A	C		A	A	A	B	C	A	
	Methane-well Head Gas	C		A					C							C	
	Methanol	A	A	A	A	B			A			B	A	A	C	A	
	Methyl Acetate	C		A				A	C		A	C	C	C	C	C	
	Methyl Acetone	A	A	A				A	A		A	C				C	
	Methyl Amine	C		A				A	C		A	C				C	
	Methyl Butyl Ketone	C		A				A	C		A	C	C	A	C	C	
	Methyl Cellosolve (Ether)	A	A	A				A	A		A	C				C	
	Methyl Cellosolve Phthalate	C		A				A	C		A	C				C	
	Methyl Chloride	C		A				A	C		A	C	C	B	C	C	
	Methyl Cyclopentane	C		A				A	C		A	C	C	C	A	C	
	Methyl Ethyl Ketone	A	A	A				A	A		B	A	C	C	B	C	
	Methyl Formate	C		A				A	C			C	B	B	C	B	

**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S	316 S. S	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R	C. R	I. I. R	F. K. M	EPDM	Teflon	
	Methyl Isobutyl Carbinol	C		A				A	C		A		B				C	A
	Methyl Isobutyl Ketone	C	B	B	B	A	A	A	C	B	A		C	B	B	C	C	A
	Methyl Methacrylate	C		A				A	C		A		C	C	C	C	C	A
	Methyl Oleate	C		A				A	C				C	C	B	A	B	A
	Methyl Propyl Ketone	C		A				A	C		A		C				C	A
	Methyl Salicylate	C		A				A	C		A		C	C	B		B	A
	Methylene Bromide	C	C	C				A	C	C	B		C				C	A
	Methylene Chloride	B	B	A	B	B		A	B		A		C	C	C	B	C	A
	Milk	C	B	A				A	C	A	A		A	A	A	A	A	A
	Mine Water	C	B	A				A	C		A		A				A	A
	Mineral Oil	B	A	A				A	B		A		A	B	C	A	C	A
	Minerul Spirits	C		A				A	C				C				C	A
	Molasses (Sugar Solutions)	C	A	A					C		A		A				A	
	Molybdic acid	A	A	A					A									
	Mono-Sodium Phosphate	C	B	B	B				C									
	Monobromobenzene	C		A				A	C		A		C				C	A
	Monochloroacetic acid	C	C	B		A	A	A	C				C			C	C	A
	Monochlorobenzene	B	B	A	B	A		A	B				C	C	C	A	C	A
	Monochlorohydrin	C	B	B	B	B			C									
	Monoethanolamine	C	B	B	B				C									
	Monoitrotoluene	C	B	B	B	B			C									
	Monomethylaniline	C		A				A	C		A		C	C		B	C	A
	Monosodium Glutamate	C	B	B	A	A			C									
	Mud-Drilling	B	A	A					B	C	A		A			C		
	Mustard	C	A	A				A	C		A		C				C	A
N																		
	Naphtha	B	A	A	A	B		A	A	C	A		C	C	C	A	C	A
	Naphthalene	C		A				A	C	A	A		C	C	C	A	C	A
	Naphthalene Chloride					A							C	C	C	A	C	
	Naphthalenesulfonic acid					A							C	C	C	A	C	
	Naphthenic acid	C	A	A	B	B		A	C				C	C	C	A	C	A
	Natural Gas	C	A	A				A	C	C	A		A	A	A	A	C	A
	Neosol	C		A				A	C				B				C	A
	Nickel Acetate 10% at 65°C	C	C	C				A	C		B		A	A	A	C	A	A
	Nickel Ammonium Sulphate (20%)	C		A					C				C	A			A	

**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S.S.	316 S.S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon	
	Nickel Chloride	C	B	B	B	A		A	C	C	A		B	A	A	A	A	A
	Nickel Nitrate	C	B	A	B	B		A	C		A		B	A	A	A	C	A
	Nickel Sulfate (Electroplating Soln)	C	B	A				A	C				B	A	A	A	A	A
	Nicotine Benionite	C	C	C				A	C		B		C				C	A
	Nicotine Sulphate	C	C	C				A	C				C				C	A
	Nicotinic Acid	C		A				A	C		A		C				C	A
	Nitrane 2 & 3	C	C	C				A	C				C	C	C	B	C	A
	Nitric & Sulphuric Acid-Mixed (5%)	C		A					C		B		B				A	
	Nitric Acid (10%)	C	B	A	C				C	C	B		B	A	B	A	B	
	Nitric acid (Red Fuming)	C	B	A	C	B	B		C		C							
	Nitric acid + Hydrochloric acid (Aqua Regia)	C	C	C	C	C	B		C	C	C							
	Nitricacid + Hydrofluoric acid	C	C	C	C	B	C		C	C								
	Nitriding Gas	A	A	A		A			A		A							
	Nitrobenzene	B	B	A	B	B		A	B		A		C	C	C	B	C	A
	Nitrocellulose	C	B	B	B				C									
	Nitroethane	B		A				A	B		A		C	C	C	C	C	A
	Nitrogen-Gas	A	A	A				A	A	B	A		A	A	A	A	A	A
	Nitrogen-Liquid (-196°C)	C		A				A	C				C				C	A
	Nitromethane	B		A				A	B		A		C	C	B	C	C	A
	Nitrophenol (Also see picric acid)	C	B	B	B	B			C									
	Nitrous Acid (10%)	C	C	B				A	C	C	B		C				C	A
	Nitrous Oxide	C	B	B	C	B			C	C								
O																		
	Oakite	C		A				A	C		A		C				C	A
	Octyl Alcohol (Octanol)	C	A	A				A	C				A	A		A	A	A
	Oil-Aniline	C	A	A				A	C		A		C			A	C	A
	Oil-Animal	A	A	A				A	A		A		A			A	C	A
	Oil-Bone (Pyridine Oil)	C	A	A				A	C		A		C				C	A
	Oil-Castor	C	A	A				A	C		A		A			A	B	A
	Oil-Cire Light Process	C	A	A				A	C		A		A			A	C	A
	Oil-Cocoanut	C	A	A				A	C		A		A			A	C	A
	Oil-Cod Liver	C	A	A				A	C		A		A			A	B	A
	Oil-Cooking	C	A	A				A	C		A		A			A	C	A
	Oil-Corn	C	A	A				A	C		A		A			A	C	A
	Oil-Cottonseed	C	A	A				A	C		A		A			A	C	A





**Material selection**

No.	FLUID	DISK										SEAT RING					
		Ductile	304 S.S.	316 S.S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon
	Paint-Linseed (No Solvents)	C	A	A			A	C		A	A				C	A	
	Paint-Synthatic	C	A	A			A	C		A	C				C	A	
	Paint-Thinners	C	A	A			A	C		A	C				C	A	
	Palm Oil	C	A	A			A	C	C	A	C				C	A	
	Palmitic Acid	C	A	A			A	C			A	B	A		C	A	
	Para San 10%	C	C	C			A	C	C	B	C				C	A	
	Paradichlorobenzene	C		A			A	C		A	A				C	A	
	Paraffin	C		A			A	C		A	A				C	A	
	Paraformaldehyde	C		A				C			C	C	C	C	C		
	Paris Green & Lime 37%	C	C	C			A	C	C	B	B				C	A	
	Peanut Oil	C		A			A	C		A	A				C	A	
	Pentachlorophenol	C		A			A	C			C				C	A	
	Pentane	A	A	A				A		A							
	Perchlorethylene	A	A	A			A	A		A	C	C		A	C	A	
	Perchlorid Acid	C	C	C			A	C			C	B	C	A	C	A	
	Permachlor (Degredsing fluid)	C		A			A	C		A	C				C	A	
	Persulfuric acid	C	B	B	C			C									
	Petrolatum	A	A	A				A			A				C		
	Petroleum Base Hydraulic Oils									A							
	Phenol	B	B	A	A	A	A			A	C	B	A	A	C	A	
	Phenol + 3~5% Sulfuric acid	C	B	A		A	C	C		B							
	Phenol + Hcl (Air Free)	C	C	C	B	A	C		C	C							
	Phenolates (Di-Nitrols)	C		A			A	C		A	C				C	A	
	Phenolphthalein					A											
	Phenolsulfonic acid	C	B	B		A	A		C								
	Phenyl Dicarbonate					A											
	Phenyl Ethyl Ether	C		A			A	C		A	C	C	C		C	A	
	Phenylhydrazine	C		A			A	C			C	C	C	A	C	A	
	Phorone	C	C	C			A	C	C		C	C	B		B	A	
	Phosphate Esters	C	C	C			A	C	C	B	C				C	A	
	Phosphoric acid (Aerated)	C	B	A	B		C	A	C	C	B	B	B	A	A	A	
	Phosphoric acid (Air Free)						C	A		B	C				B	A	
	Phosphoric acid Vapors	C	B	B				C									
	Phosphorous Trichloride Acid	C	C	C			A	C	C	B	C	C	A	A	A	A	
	Phosphorus	A	A	A	A	A	A	A		A	C				C	A	







**Material selection**

No.	FLUID	DISK										SEAT RING					
		Ductile	304 S. S.	316 S. S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon
	Silver Chloride	C	C	C	C	C		A	C	C	B						A
	Silver Cyanide	A	A	A	A		A		A								
	Silver Nitrate	C	B	B					C				C	A	A	A	B
	Skelly Sovent B, C & E	C	A	A					C				A				C
	Skydrol Hydraulic Fluid	C	A	A				A	C				C				C
	Sludge	C	A	A					C				A				A
	Soaps (Detergents)	C	A	A					C		A		A	A	A	A	A
	Sodium	A	A	A	A				A		A						
	Sodium Acetate	C	B	B	B	B			C				B				A
	Sodium acid Fluoride	C	B	B	B	B			C								
	Sodium Aluminate	A	A	A	A	B		A	A		A		A	A	A		A
	Sodium Bicarbonate	C	B	B	B	B			C		A						
	Sodium Bichromate Solution	C	C	C				A	C	C	B		C				C
	Sodium Bisulfate	C	C		B				C				B				B
	Sodium Bisulfite	C	B	B	C	B			C	C	A		B				B
	Sodium Borate	B	B	A	B	B		A	B				B	A	A		A
	Sodium Bromate	C	C	A	C	B		A	C	C	A		B				A
	Sodium Bromide	C	C	C				A	C	C	B		C				C
	Sodium Carbonate	B	B	A	B	B		A	B		A		A	B	A	A	A
	Sodium Chlorate	B	B	A	C	B		A	B		A		B			A	A
	Sodium Chloride	B	B	B	B	B	A	A	B	A	A		A	B	A	A	A
	Sodium Chromate	C	B	B	B	B			C	C			B				A
	Sodium Citrate	C	B	B	B	B			C								
	Sodium Cyanide	C	B	B	B				C				A	A	A		A
	Sodium Dicarbonate (Baking Soda)	C		A					C		A		A				A
	Sodium dichromate	C		A					C				C	B		A	A
	Sodium Ferricyanide	C	B	B		A			C								
	Sodium Fluoaluminate 10%	C	C	C				A	C	C	B		B				C
	Sodium Fluoride	C	B	B	A			A	C		A		A			A	B
	Sodium Fluosilicate				B	C											
	Sodium Hydrosulfide	A	A	A	A				A								
	Sodium Hydrosulfite	C	B	B	B	B			C								
	Sodium Hydroxide	B	B	A	A	A		A	B		A		B	A	A	C	B
	Sodium Hypochloride	C	C	C				A	C	C	B		C				B
	Sodium Hypochlorite	C	C	C	C	A	A	A	C	C	B		C	C	B	A	B



**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S.S.	316 S.S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon	
	Streptomycin	C	B	B		B			C									
	Strontium Chloride	C	C	C	C	C		A	C	C							A	
	Strontium Nitrate	C	B	B	B	B			C									
	Styrene	A	A	A				A	A	B	A		C	C	C	B	C	A
	Succinic acid	C	B	B	B	B	A		C									
	Sugar Solutions	C	A	A					C		A		A				A	
	Sulfar	A	A	A	A	A	A	A	A	A	A		B	B	B	A	B	A
	Sulfate Black Liquor	C	B	B	B	A			C									
	Sulfate Green Liquor	C	B	B	B	B			C	C								
	Sulfite Liquor (100% Solution Contains 10% SO <sub>2</sub> )	C	B	B	C	B			C	C	B							
	Sulfonated Oil	C	B	B	B	A			C				A				C	
	Sulfur Chloride	C	B	B	C	B			C	C			C	B	C	A	C	
	Sulfur Containing Oils (1.5%S)	C	B	B	B				C									
	Sulfur Monochloride	C	B	B	B	B		A	C		A		C				C	A
	Sulfur Oioxid	C	B	B	B	B		A	C	C	A		B	B	B	A	A	A
	Sulfur Trioxide	C	B	B	B	B		A	C	C	B		C	C	B		C	A
	Sulfuric acid (10%~50%)	C	B	B	C	B	C	A	C		B		B	A	A	A	A	A
	Sulfuric acid (50%) + Chlorine	C	C	C	B	A	A		C	C								
	Sulfuric acid (50%~80%)	C	C	B	C	B	C	A	C		B		C	C	C		C	A
	Sulfuric acid (87%) + Chlorine	C	C	B	C	A	A		C	C								
	Sulfuric acid (Fuming) Oleum	C	B	B	C	A		A	C				C	C	C		C	A
	Sulfurous acid	C	B	A	C	B	A	A	C	C	A		C	B	B	A	C	A
	Sulphite Pulp Solutions	C	B	A					C				A				A	
	Sulphuric & Nitric-mixed (5%)	C		A				A	C		B		C				C	A
	Sulphuric acid fuming	C	C	C				A	C				C				C	A
	Sulphuric acid Less 20%	C	C	B					C		B		B	A		A	A	
	Sulphuric acid Less 80%	C	C	C				A	C		C		C			A	C	A
	Sulphuric acid Over 80%	A		B				A	A		B		C				C	A
	Sulphuric acid, Oleum	A		B					A				C				C	
	Summer Oil	C	C	C				A	C		B		B				C	A
	Synthetic yarn Resins	C	A	A				A	C		A		C				C	A
T																		
	Tall Oil	C	B	B	B	A		A	C	C	A		A			A	C	A
	Tallow (Animal fats)	C	A	A					C				A				C	
	Tannic acid	B	B	A	B			A	B		A		B	A	B	A	A	A



**Material selection**

No.	FLUID	DISK										SEAT RING					
		Ductile	304 S. S.	316 S. S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon
	Tanning Liquors (Chrome. Alum. sol)	C	A	A				C				B					A
	Tar	A	A	A			A					B	B	C		C	A
	Tartaric acid	C	C	C		B	A	C	A	B		B	A	B		A	A
	Taxaphene 12%	C	C	C			A	C	C			C				C	A
	Terpene-Hydrocarbon (Dipentene)	C	A	A			A	C		A		C				C	A
	Terpineol	C	A	A			A	C		A		C				C	A
	Tertiary Butyl Alcohol	B	A	A			A			A		A	A			B	A
	Tertiary Butyl Mercaptan	C	C	C			A	C	C	B		C				C	A
	Tetra Ethyl Lead	C		A			A	C				C				C	A
	Tetrachloroethane	C		A			A	C		A		C			A	C	A
	Tetrahydrofuran	C		A			A	C		A		C				B	A
	Tetrain	C		A			A	C		A		C	C	C		C	A
	Tetraphosphoric acid	C	B	B	C	B	A	C		A		C	C	C		C	A
	Thiodiacetic acid					A											
	Thioglycolic acid					A				A							
	Thiokol Polymer	C		A			A	C		A		C				C	A
	Thionyl Chloride	C	C	C			A	C	C			C			B	C	A
	Thiophene (Heterocyclic)	C	C	C			A	C	C			C	C	B		C	A
	Tin Tetrachloride				B	B											
	Titanium Sulfate	C	B	B	B	B			C								
	Titanium Tetrachloride	C	B	B	B	B			C								
	Toluene	A	A	A	A	A	A	A	B	A		C	C	C	A	C	A
	Triacetin	C	C	C			A	C	C			A	A	A		A	A
	Tributozy Ethyl Phosphate	C	C	C			A	C	C			C	C	A	A	A	A
	Tributyl Phosphate	C		A			A	C				C	C	A	C	A	A
	Trichloroacetic acid	C	C	C		B	A	C	C	B		C	C	C		C	A
	Trichloroacetic Acid 10%	C	C	C			A	C	C	B		C		B	C	B	A
	Trichlorobenzene					B											
	Trichloroethane	C	C	C			A	C	C	B		C	C	C	A	C	A
	Trichloroethylene	B	B	B	A	A	A			A		C	C	C	A	C	A
	Trichloroethylene (Ethylene Trichloride)	C		A			A	C		A		C	C	C	A	C	A
	Trichloronitromethane	C	B	B	B												
	Tricresyl Phosphate				B							C				A	A
	Triethanolamine	C		A					C			A	A	A	C	B	
	Triethylborane	C	C	C			A	C		B		C			A	C	A

**Material selection**

No.	FLUID	DISK										SEAT RING						
		Ductile	304 S. S.	316 S. S.	Monel	Hastelloy	Titanium	Teflon	Dacro	Nylon 11	PPS	N. B. R.	C. R.	I. I. R.	F. K. M.	EPDM	Teflon	
	Trihydroxy Benzoic Acid																	
	Trihydroxy Benzoil Acid (Gallic Acid)	C	B	B	B	B		A	C				C	B		A	C	A
	Trinitrotoluene	C		A				A	C		A		C	A		B	C	A
	Triphenyl phosphate	C		A				A	C				C				C	A
	Trisodium Phosphate	A	A	A		A			A				A	A			B	
	Tung Oil (China Wood Oil)	C	A	A					C				A	A			B	
	Turbine Oil	A	A	A					A				B	C	C	A	C	
	Turpentine	C	A	A				A	C		A		A	C	C	A	C	A
	Two Four D With 10% Fuel Oil	A	A	A									A				C	
U																		
	Ucon Hydrolube Oils	A	A	A					A				A				C	
	Unbleached Pulp Stock (3-1/2%) (Paper Mfg)	C		A					C				A				A	
	Uran	C	C	C				A	C				C				C	A
	Urea	C	B	A	B			A	C	B	A		A	A		A	A	A
	Urea Ammonia Liquor	C		A					C		A		C				A	
	Uric acid	C	B	B	B	B			C									
V																		
	Varnish & Solvents	C		A				A	C		A		C			A	C	A
	Vegetable Oils	C		A					C		A		A				B	
	Vinegar	C		A					C		A		B				A	
	Vinyl Acetate	C		A				A	C		A		C				C	A
	Vinyl Chloride																	
W																		
	Water Base Hydraulic Oil	C	A	A					C				A				C	
	Water PH Approx 7	A	A	A	A				A	A	A							
	Water, Acid Mine (With oxideizing Salts)	C	A	A					C	C			A				A	
	Water, Acid Mine (Without Oxideizing Salts)	C	C	C				A	C	C			A				A	A
	Water, Carbonated	C	A	A					A	A			A	A	A		A	
	Water, Chilled (Air Cond)	A	A	A					A	A	A		A				A	
	Water, Deionized, Demineralized	C	A	A					A	A	A		A	A	A		A	
	Water, Fresh	A	A	A					A	A	A		A	A	A		A	
	Water, fresh boiler feed brackish disuilled retum Condensate	A	A	A					A	A			A				A	
	Water, Hot Water Heating	A	A	A					A		A		A				A	
	Water, Paint Spray Reclaim (Auto Plants)	A	A	A					A				A				A	
	Water, Salt Sea Water	B	A	A					A	A	A		A				A	

