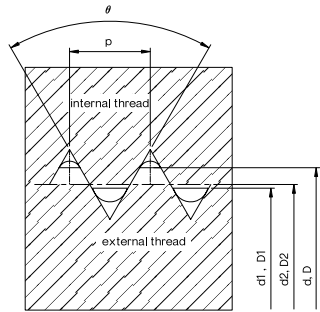


## PARALLEL THREAD

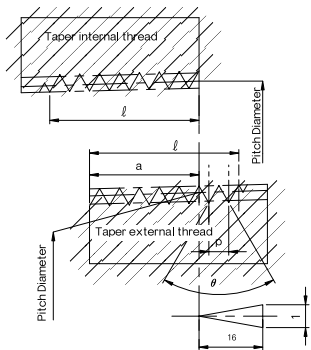
- BSP(P): British Standard Pipe Parallel Thread
- UNF: Unified National Fine Thread
- UNS: Unified National Special Thread
- UN: Unified National Thread
- UNEF: Unified National Extra Fine
- NPSM: National Pipe Straight Mechanical Thread
- NH: National Hose coupling Thread
- British Thread (British Standard Whitworth)



Nominal Size	Angle (θ)	Pitch of Thread (p)	Female			
			Major Dia.(D)	Pitch Dia. (D2)	Minor Dia.(D1)	
			Male			
			Major Diam. (d)	Pitch Diam. (d2)	Minor Diam.(d1)	
1/8-28 BSPP(PF)	55	0.907	9.728	9.147	8.566	
1/4-19 BSPP(PF)		1.337	13.157	12.301	11.445	
3/8-19 BSPP(PF)		1.337	16.662	15.806	14.950	
1/2-14 BSPP(PF)		1.814	20.955	19.793	18.631	
5/8-14 BSPP(PF)		1.814	22.911	21.749	20.587	
3/4-14 BSPP(PF)		1.814	26.411	25.279	24.117	
7/16-20 UNF	60	1.270	11.112	10.287	9.738	
1/2-20 UNF		1.270	12.70	11.874	11.326	
5/8-18 UNF		1.4111	15.875	14.958	14.348	
3/4-16 UNF		1.5875	19.05	18.019	17.33	
7/16-24 UNS	2B	60	1.058	11.113	10.549	10.211
	2A			11.085	10.396	9.825
1/2-16 UN	2B	60	1.588	12.700	11.824	11.328
	2A			12.664	11.633	10.772
9/16-24 UNEF	2B	60	1.058	14.288	13.729	13.386
	2A			14.257	13.569	12.997
1/2-14 NPSM	60	1.814	20.904	19.942	19.279	
			20.904	19.733	19.279	
0.75-11.5 NH	60	2.209	27.242	26.022	24.803	
			26.988	25.552	24.117	
3/8-24 BSW	55	1.588	9.525	8.509	7.492	
1/2-24 BSW		2.117	12.700	11.345	9.990	
9/16-24 BSW		2.117	14.287	12.931	11.574	

## TAPER THREAD

- NPTF: National Pipe Taper Fuel Thread
- BSP(T): British Standard Pipe Tapered Thread



Nominal Size	Angle (θ)	Pitch of Thread (p)	Pitch Dia.	Effective Thread External (l)	Nominal Complete External Threads (a)
1/8-27 NPTF	60	0.941	9.489	6.924	4.102
1/4-18 NPTF		1.411	12.487	10.020	5.786
3/8-18 NPTF		1.411	15.926	10.330	6.096
1/2-14 NPTF		1.814	19.772	13.571	8.128
3/4-14 NPTF	1.814	25.117	14.504	8.611	
1/8-28 BSPT(PT)	55	0.907	9.147	8.000	3.970
1/4-19 BSPT(PT)		1.337	12.301	11.000	6.010
3/8-19 BSPT(PT)		1.337	15.806	12.000	6.350
1/2-14 BSPT(PT)		1.814	19.793	15.000	8.160
3/4-14 BSPT(PT)		1.814	25.279	17.000	9.530

## CHEMICAL COMPATIBILITY TABLES

DMfit® has excellent resistance to exposure to organic compounds, industrial chemicals, and gases (refer to tables).

### ■ Resistance of chemical characteristics for plastic resins & elastomers.

Description (% v/v)	Brass	SUS 304	Resin			Rubber	
			Acetal	PBT	PP	NBR	EPDM
Caustic soda(10%,20 v/v)	△	△	⊙	△	△	△	⊙
Gasoline	⊙	⊙	⊙	⊙	△	⊙	×
Formic acid(25%,20 v/v)	×	△	×	⊙	⊙	⊙	⊙
Air	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Mineral oil	⊙	⊙	⊙	⊙	⊙	⊙	×
Grease	⊙	⊙	⊙	⊙	△	⊙	×
Sodium silicate	⊙	-	⊙	⊙	⊙	⊙	⊙
Glycerin	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Ozone	⊙	⊙	△	⊙	△	⊙	⊙
Animal oil(Lard oil)	⊙	-	⊙	⊙	⊙	⊙	⊙
Kerosene	⊙	⊙	⊙	⊙	⊙	⊙	×
Methane	⊙	-	⊙	⊙	⊙	⊙	×
Methyl alcohol(Methanol)	⊙	△	⊙	⊙	⊙	⊙	⊙
Water(24 v/v)	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Water(100 v/v)	×	⊙	△	×	△	-	-
Sea water	△	⊙	⊙	⊙	⊙	-	-
Bunker oil	△	-	-	-	⊙	-	-
Benzene(Benzol)	×	△	⊙	⊙	△	×	×
Butane	⊙	⊙	⊙	⊙	⊙	⊙	×
Fluorine	×	×	×	-	×	-	△
Boric acid	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Carbon tetrachloride	△	△	⊙	⊙	△	△	×
Oxygen	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Petroleum	-	-	⊙	⊙	×	⊙	×
Soda ash(Sodium carbonate)	⊙	△	⊙	⊙	⊙	⊙	⊙
Calcium hydroxide	△	△	⊙	×	⊙	⊙	⊙
Hydrogen	△	⊙	⊙	⊙	⊙	⊙	⊙
Mercury	×	-	-	-	⊙	⊙	⊙
Steam(150 v/v)	⊙	-	△	△	×	×	×
Sodium cyanide	×	-	-	-	⊙	⊙	⊙
Vegetable oil	-	-	⊙	⊙	⊙	⊙	⊙
Silicone greases	-	-	⊙	⊙	△	⊙	⊙
Silicone oil	-	-	⊙	⊙	△	⊙	⊙
Acetone	⊙	△	⊙	⊙	△	×	×
Sulfurous acid gas	-	-	△	⊙	⊙	⊙	⊙
Ammonia	△	⊙	⊙	△	⊙	⊙	⊙
Liquefied petroleum gas(LPG)	⊙	⊙	⊙	⊙	⊙	⊙	×
Ethyl alcohol(Ethanol)	⊙	⊙	⊙	⊙	⊙	⊙	⊙

⊙: Very acceptable ⊙: Acceptable △: Slightly Unacceptable ×: Unacceptable - : No data

Description (% v/v)	Brass	SUS 304	Resin			Rubber	
			Acetal	PBT	PP	NBR	EPDM
Lye solution	-	-	⊙	⊙	⊙	⊙	⊙
Hydrochloric acid(10%,20 v/v)	×	×	×	⊙	⊙	-	-
Hydrochloric acid(20%,20 v/v)	×	×	×	△	⊙	-	-
Hydrochloric acid(20%,80 v/v)	×	×	×	×	×	×	△
Hydrochloric acid(38%,20 v/v)	×	×	×	△	⊙	⊙	⊙
Ammonium chloride	×	△	⊙	⊙	⊙	⊙	⊙
Calcium chloride	⊙	△	⊙	⊙	⊙	⊙	⊙
Naphtha	△	⊙	⊙	⊙	△	△	×
Olive oil	△	⊙	⊙	⊙	⊙	⊙	⊙
Sulfur	×	⊙	⊙	-	⊙	×	×
Sodium phosphate	×	△	⊙	⊙	⊙	⊙	⊙
Ammonium phosphate	△	△	⊙	⊙	⊙	⊙	⊙
Ammonium nitric	×	⊙	⊙	⊙	⊙	⊙	⊙
Nitrogen	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Natural gas	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Acetic acid(10%,20 v/v)	×	⊙	△	⊙	⊙	⊙	⊙
Acetic acid(50%,20 v/v)	×	⊙	×	⊙	⊙	-	-
Acetic acid(50%,70 v/v)	×	⊙	×	△	×	-	-
Acetic acid(100%,20 v/v)	×	△	△	×	×	-	-
Ketones	⊙	⊙	⊙	⊙	⊙	-	×
Cresol	⊙	△	△	⊙	⊙	△	×
Chromic acid(2%,70 v/v)	×	×	×	×	△	-	-
Chromic acid(10%,70 v/v)	×	×	×	×	×	-	-
Chromic acid(25%,70 v/v)	×	×	×	×	×	-	-
Chromic acid(2%,50 v/v)	×	×	×	△	△	×	⊙
Soybean oil	△	⊙	⊙	⊙	⊙	⊙	⊙
Toluene	⊙	⊙	⊙	△	△	×	×
Glucose	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Propane	⊙	⊙	⊙	⊙	⊙	⊙	×
Castor oil	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Sulfuric acid(10%,20 v/v)	×	×	×	×	×	×	×
Sulfuric acid(10%,70 v/v)	×	×	×	×	×	-	-
Sulfuric acid(30%,20 v/v)	×	×	×	△	⊙	-	-
Sulfuric acid(30%,70 v/v)	×	×	×	×	△	-	-
Sulfuric acid(98%,20 v/v)	×	×	×	×	×	-	-
Aluminium sulfate	×	⊙	⊙	⊙	⊙	⊙	⊙
Potassium sulfate	⊙	△	⊙	⊙	⊙	⊙	⊙
Hydrogen sulfide	△	△	⊙	⊙	⊙	×	×

### ■ Resistance of chemical characteristics for Tube.

Name of chemical	Polyethylene	Remarks
Air	⊙	
Alcohol	⊙	
Ammonia gas	⊙	
Ammonia liquid	⊙	high temperature △
Beer	⊙	
Benzene	△	
Bromine liquid	×	
Carbon dioxide gas	⊙	
Caustic soda	⊙	
Diesel fuel	△	
Ethyl alcohol	⊙	high temperature △
Fluor gas, dry	×	
Fuel Oil	△	

Name of chemicals	Polyethylene	Remarks
Hexane	△	
Hydrogen gas	⊙	
Lighting gas	△	
Mercury	⊙	
Methanol (Methyl Alcohol)	⊙	
Milk	⊙	
Molasses	⊙	
Nickel salts	⊙	
Oils, essential	△	
Propane gas	△	
Spindle Oil	△	
Water, high-purity	⊙	

⊙: Very acceptable ⊙: Acceptable △: Slightly unacceptable ×: Very unacceptable  
 ※ Differences in data can exist due to extended duration and elevated temperature (Standard data reflects use at ambient temperature.)  
 ※ Consult with your DMT representative when using unsuitable liquids.