

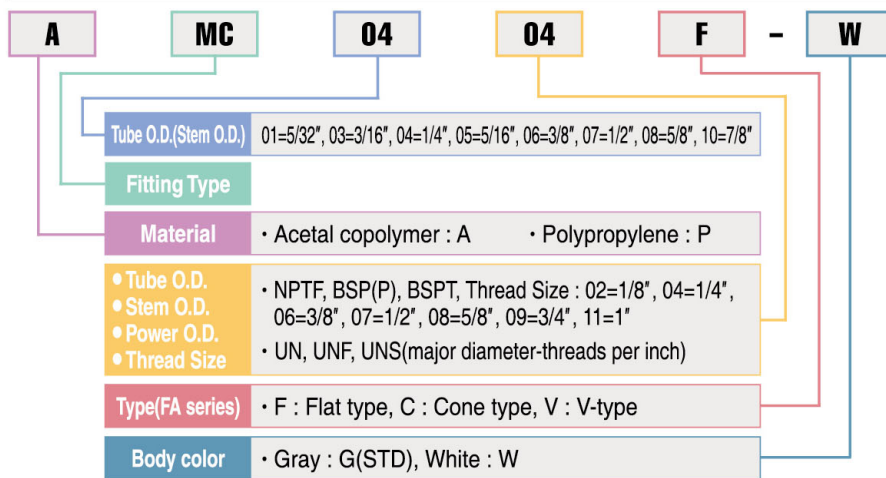
## ACETAL FITTINGS (GRAY&WHITE / INCH)

### Suitable for

- **Water & foods use :** *DMfit*® products are manufactured from safe, non-toxic materials meeting the requirements of FDA, WRAS, ANSI/NSF-51, 61, ACS, K-TW and DVGW-W270 Our products are widely used in water purification, food/beverage and pneumatic systems.
- **Function & Quality :** *DMfit*® provides quick and convenient assembly - saving time & expense. Our ISO9001, 14001 registered quality system ensures our customers a superior level of product quality. Defects are easily detectable and maintenance is easy with its easy dismantling for access.
- **Collet Design :** Our unique oval collet design is superior and more practical, and is an improvement welcomed by our world-wide customers in all industries.
- **Applications :** Beyond water and food use, fittings can be used with air, gases, vacuum, & liquids. And all connections can be assembled & disassembled repeatedly. A broad of sizes covers a broad scope of applications.
- **Color :** Gray Acetal Copolymer & white acetal copolymer.



### Part Numbering System



### Fitting Working Pressure and Temperature

SIZE	Small Size						Large Size				
	5/32	3/16	1/4	5/16	3/8	1/2	5/8	7/8			28mm
	4mm	5mm	6mm	8mm	10mm	12mm	15mm	16mm	18mm	22mm	
Temperature											
1°C (34°F)	16bar (230PSI)						11bar (170PSI)				
20°C (68°F)	16bar (230PSI)						11bar (170PSI)				
65°C (150°F)	10bar (150PSI)						7bar (100PSI)				

### Maximum Permissible Torque

Torque	Thread		1/8 1/4		3/8 1/2		3/4
	Maximum Torque	(Nm)	1.5	3.0	4.0		
Plastic	Maximum Torque	(Nm)	1.5	3.0	4.0		
Steel	Maximum Torque	(Nm)	7.0-9.0	12.0-14.0	22.0-24.0	28.0-30.0	40.0

※ The above values are average maximum applied torque. Actual results may vary.

### Material Standards

Material Options	Fittings Color	O-ring
A - acetal	Gray, Black, White	NBR / EPDM
P - polypropylene	White	
B - brass	brass, or chromed	

### Outer Diameter Tolerance Limit of Tubing Used with Fittings

Size	Tolerance
Small Size	±0.004" (±0.1mm)
5/32", 4mm	
3/16", 5mm	
1/4", 6mm	
5/16", 8mm	
3/8", 10mm	
1/2", 12mm	Large Size
5/8", 15(16)mm	
7/8", 18(22)mm	
28mm	

※ For use at higher temperatures or pressures, please contact your DMfit representative for assistance.

# CHEMICAL COMPATIBILITY TABLES

DMfi® has excellent resistance to exposure to organic compounds, industrial chemicals, and gases. Resistance of chemical characteristics for plastic resins & elastomers.

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

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

⊗ : Very acceptable ○ : Acceptable △ : Slightly Unacceptable × : Unacceptable - : No data

## 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 our representative when using unsuitable liquids.



**MC - Male Connector** NPTF Thread

PART NO.	Tube O.D.	NPTF Thread	Qty / Box
AMC 0402	1/4	1/4	350
AMC 0406	1/4	3/8	300
AMC 0407	1/4	1/2	150
AMC 0604	3/8	1/4	300
AMC 0606	3/8	3/8	250
AMC 0607	3/8	1/2	200
AMC 0706	1/2	3/8	200
AMC 0707	1/2	1/2	150



**ME - Male Elbow** NPTF Thread

PART NO.	Tube O.D.	NPTF Thread	Qty / Box
AME 0302	3/16	1/8	500
AME 0402	1/4	1/8	500
AME 0404	1/4	1/4	350
AME 0406	1/4	3/8	300
AME 0604	3/8	1/4	250
AME 0606	3/8	3/8	250
AME 0706	1/2	3/8	200
AME 0707	1/2	1/2	150



**TEU - Tube Elbow Union**

PART NO.	Tube O.D.	Stem O.D.	Qty / Box
ATEU 0404	1/4	1/4	500
ATEU 0406	1/4	3/8	400
ATEU 0606	3/8	3/8	250
ATEU 0707	1/2	1/2	150



**EU - Elbow Union**

PART NO.	Tube O.D.	Tube O.D.	Qty / Box
AEU 0404	1/4	1/4	350
AEU 0604	3/8	1/4	200
AEU 0606	3/8	3/8	200
AEU 0706	1/2	3/8	150
AEU 0707	1/2	1/2	150



**FA - Female Adapter** NPTF Thread

PART NO.	Tube O.D.	NPTF Thread	Qty / Box
AFA 0404	1/4	1/4	400
AFA 0604	3/8	1/4	300



**FAU - Female Adapter** UNS Thread (Cone Type)

PART NO.	Tube O.D.	UNS Thread	Qty / Box
AFAU 04 7/16C	1/4	7/16 - 24	400
AFAU 06 7/16C	3/8	7/16 - 24	300



**FAB - Female Adapter** BSP(P) Thread (Cone Type)

PART NO.	Tube O.D.	NPTF Thread	Qty / Box
AFAB 0407C	1/4	1/2	200
AFAB 0607C	3/8	1/2	200

※ Part number are listed as gray. For white, please add "w" at the end.  
 ※ More sizing available. Please ask for a DMT catalog for more details.

# ACETAL FITTINGS (GRAY&white / INCH)

※ Part number are listed as gray. For white, please add "w" at the end.



**SA - Stem Adapter** NPTF Thread

PART NO.	Stem O.D.	NPTF Thread	Qty / Box
ASA 0404	1/4	1/4	500
ASA 0604	3/8	1/4	300
ASA 0606	3/8	3/8	300



**TBC - Tube Barb Connector**

PART NO.	Stem O.D.	Tube I.D.	Qty / Box
ATBC 0404	1/4	1/4	1000
ATBC 0604	3/8	1/4	500
ATBC 0606	3/8	3/8	400



**TEB - Tube Elbow Barb connector**

PART NO.	Stem O.D.	Tube I.D.	Qty / Box
ATEB 0404	1/4	1/4	800
ATEB 0606	3/8	3/8	550



**TU - Tee Union**

PART NO.	Tube O.D. (A)	Tube O.D. (B)	Tube O.D. (C)	Qty / Box
ATU 040404	1/4	1/4	1/4	300
ATU 060604	3/8	3/8	1/4	150
ATU 060606	3/8	3/8	3/8	150
ATU 070706	1/2	1/2	3/8	100
ATU 070707	1/2	1/2	1/2	100



**UC - Union Connector**

PART NO.	Tube O.D.	Tube O.D.	Qty / Box
AUC 0404	1/4	1/4	350
AUC 0604	3/8	1/4	250
AUC 0605	3/8	5/16	250
AUC 0606	3/8	3/8	250
AUC 0706	1/2	3/8	200
AUC 0707	1/2	1/2	150



**BU - Bulkhead Union**

PART NO.	Tube O.D.	Tube O.D.	Thread Size	Qty / Box
ABU 0404	1/4	1/4	M16XP1	250
ABU 0606	3/8	3/8	M20XP1.5	150
ABU 0707W	1/2	1/2	M27XP1.5	70



**TES - Tube End Stop**

PART NO.	Tube O.D.	Qty / Box
ATES 04W	1/4	700



**TWD - Two Way Divider**

PART NO.	Tube in	Tube out	Qty / Box
ATWD 0404	1/4	1/4	300
ATWD 0606	3/8	3/8	150
ATWD 0707	1/2	1/2	100