STC Composite Push-In Fittings Male Angle MA Specifications

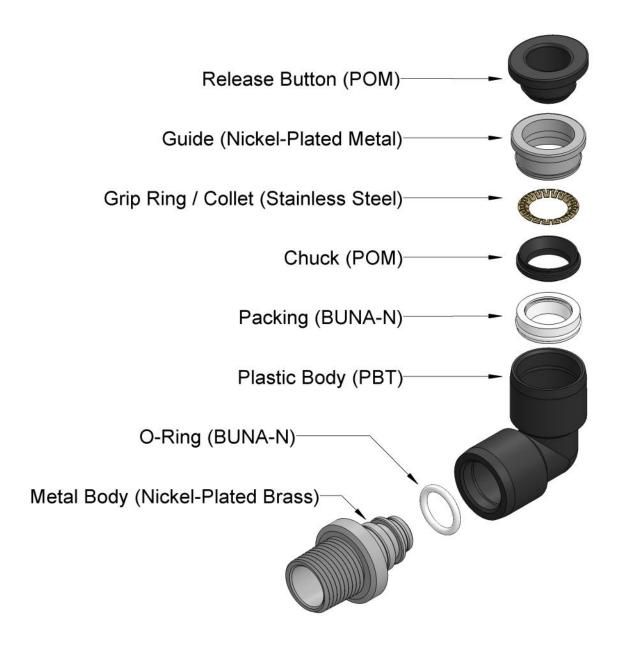


Male Angle MA Specifications

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Operating Pressure Range	0 - 180 PSI (0 - 1200 kPa)				
Vacuum	0 - 29.5" Hg (750 mm Hg)				
Operating Temperature	32 - 140°F (0 - 60°C)				
Recommended Tubing Material	Polyurethane, Nylon, Polyethylene, Polypropylene				
Metal Body	Brass, Nickel Plated				
Plastic Body	PBT (Polybutylene Terephthalate)				
Release Button	POM (Polyoxymethylene copolymer)				
Grip Ring or Collet	300 Series Stainless Steel				
O-Ring	NBR (Buna-N)				
Thread Sealant	Teflon				
Service	FOR AIR				

Composite Push-In Fitting Components

Composite Push-In Fitting Materials of Construction



Material Test Reports

This document certifies that STC products have been subjected to quality assurance procedures and meet the material and performance specifications published by Sizto Tech Corporation (STC). The products have been manufactured, processed, inspected, and tested according to STC internal requirements and ISO 9001 standards.

ISO 9001:2015 Certificate Number: Qnb17180318

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Individual materials and components used in this product have been tested and conform to applicable published standards according to chart below. Please be advised that STC does not conduct its own material analysis of all raw materials, rather, STC relies on the statements of its material suppliers & reserves the rights to independently test raw materials if necessary. Material Test Reports may be available for specific products upon request.

Material	Use Location	Material Standard		
316 Stainless Steel	Metal Fittings, Valves, Air Cylinders	ASTM A240/A2666		
304 Stainless Steel	Valves, Air Cylinders	ASTM A240/A666		
CF8M Stainless Steel	Valves	ASTM A351/A743		
Brass	Valves	ASTM B36/B62		
Nickel-Plated Brass	Composite Fittings	ASTM B456/B927		
Acetal Homopolymer (Delrin)	Valves	ASTM D4181/D6778—14		
Acetal Copolymer (POM)	Composite Fittings	ASTM D4181/D6778—14		
FKM (Viton)	Seals	ASTM D1418		
PTFE (Teflon)	Valves, Seals	ASTM D3294—15		
NBR (Buna N)	Seals	ASTM D1387—06		
EPDM	Seals	ASTM D3568—03		
Polybutylene Terephthalate (PBT)	Composite Fittings ASTM D4000			



Composite Push-In Fitting Installation Procedure

A. Installation of Pipe Fittings

1. Tighten fitting by hand, then turn it 2-3 turns with a wrench until it reaches the desired torque listed. If the fittings are not pre-coated with sealant, or is used and the sealant is not in good condition, apply Teflon sealant tape to the threads.

Recommendation of Torque for Tightening Fittings					
Fitting Thread Size	Torque, lb-ft	Torque, kgf/cm			
10-32, M5 - M6	1.0 - 1.5	14 - 21			
NPT 1/8, R1/8	5 - 6.5	70 - 90			
NPT 1/4, R1/4	8.5 - 10	120 - 140			
NPT 3/8, R 3/8	16 - 17.5	220 - 240			
NPT 1/2, R 1/2	20 - 21.5	280 - 300			

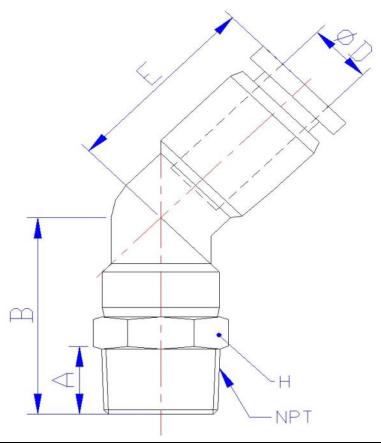
B. Installation of Tubing into Fitting:

- 1. Slowly push a clean and perpendicularly cut tube into the fitting until it comes to a dead stop.
- 2. Gently pull the tubing back until the Grip Ring or Collet of the fitting grips onto the tubing and has a good seal.
- 3. Use Polyethylene, Polypropylene, Polyurethane, or Nylon tubing designed for instant fittings.
- C. Removal of Tubing from Fitting:
 - 1. Push in evenly on the two long, oval sides of the Release Button.
 - 2. Pull out the tube while depressing the Release Button.
 - 3. To reuse the tubing, cut off the lodged portion of the previously used tubing in an even and perpendicular fashion.
- D. Recommended Tubing Material, Size, and Hardness Requirements:

Tubing Material	Specified Size	Hardness (Durometer)
Polyurethane	+/- 0.006" (+/-0.15 mm)	Shore A 85 or higher
Polyethylene	+/- 0.004" (+/-0.1 mm)	Shore D 44 - D75
Polypropylene	+/- 0.004" (+/-0.1 mm)	Shore D 44 - D75
Nylon	+/- 0.004" (+/-0.1 mm)	Shore D 44 - D75
Pre-grooved Metal Tubing	+/- 0.004" (+/-0.1 mm)	

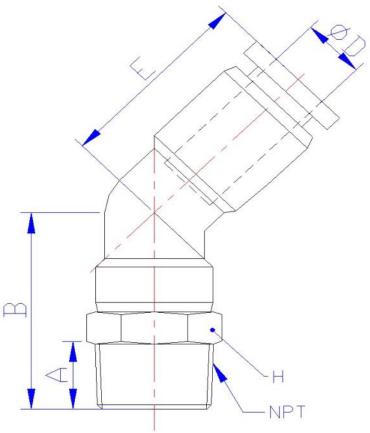


Composite Push-In Fitting Dimensions



Male Angle MA Dimensions						
Model	ΦD	Thread Size	А	В	Е	Н
MA 5/32 10-32	5/32	10-32UNF	3.8	20.7	16.2	11.1
MA 5/32 N1/8	5/32	NPT1/8	7.5	22.7	16.2	11.1
MA 5/32 N1/4	5/32	NPT1/4	10.5	26.7	16.2	14.3
MA 3/16 10-32	3/16	10-32UNF	3.8	20.7	16.5	11.1
MA 3/16 N1/8	3/16	NPT1/8	7.5	23.2	16.5	11.1
MA 3/16 N1/4	3/16	NPT1/4	10.5	26.7	16.5	14.3
MA 3/16 N3/8	3/16	NPT3/8	11	27.7	16.5	17.4
MA 1/4 10-32	1/4	10-32UNF	3.8	23.1	17.7	12.7
MA 1/4 N1/8	1/4	NPT1/8	7.5	24.4	17.7	12.7
MA 1/4 N1/4	1/4	NPT1/4	10.5	27.9	17.7	14.3
MA 1/4 N3/8	1/4	NPT3/8	11	28.9	17.7	17.4
MA 5/16 N1/8	5/16	NPT1/8	7.5	27.6	20.9	14.3
MA 5/16 N1/4	5/16	NPT1/4	10.5	30.6	20.9	14.3
MA 5/16 N3/8	5/16	NPT3/8	11	31.6	20.9	17.4
MA 3/8 N1/8	3/8	NPT1/8	7.5	30.2	22.2	17.4
MA 3/8 N1/4	3/8	NPT1/4	10.5	33.2	22.2	17.4
MA 3/8 N3/8	3/8	NPT3/8	11	33.7	22.2	17.4
MA 3/8 N1/2	3/8	NPT1/2	14	37.2	22.2	22.2
MA 1/2 N1/4	1/2	NPT1/4	10.5	36.2	26.3	22.2
MA 1/2 N3/8	1/2	NPT3/8	11	36.7	26.3	22.2
MA 1/2 N1/2	1/2	NPT1/2	14	39.7	26.3	22.2

Composite Push-In Fitting Dimensions



Male Angle MA Dimensions						
Model	ΦD	Thread Size	Α	В	Е	Н
MA 4 M5	4	M5	3.8	20	16.2	10
MA 4 M6	4	M6	4.5	20.7	16.2	10
MA 4 R1/8	4	R1/8	7	22.2	16.2	10
MA 4 R1/4	4	R1/4	9.5	25.7	16.2	14
MA 6 M5	6	M5	3.8	21.7	17.7	12
MA 6 M6	6	M6	4.5	22.4	17.7	12
MA 6 R1/8	6	R1/8	7	23.9	17.7	12
MA 6 R1/4	6	R1/4	9.5	26.9	17.7	14
MA 6 R3/8	6	R3/8	10.5	28.4	17.7	17
MA 6 R1/2	6	R1/2	13.5	31.9	17.7	21
MA 8 R1/8	8	R1/8	7	27.1	20.9	14
MA 8 R1/4	8	R1/4	9.5	29.6	20.9	14
MA 8 R3/8	8	R3/8	10.5	31.1	20.9	17
MA 8 R1/2	8	R1/2	13.5	34.6	20.9	21
MA 10 R1/8	10	R1/8	7	29.7	22.2	17
MA 10 R1/4	10	R1/4	9.5	32.2	22.2	17
MA 10 R3/8	10	R3/8	10.5	33.2	22.2	17
MA 10 R1/2	10	R1/2	13.5	36.7	22.2	21
MA 12 R1/4	12	R1/4	9.5	35.2	26.3	21
MA 12 R3/8	12	R3/8	10.5	36.2	26.3	21
MA 12 R1/2	12	R1/2	13.5	39.2	26.3	21
Note: Dimensions	lote: Dimensions are for reference only. Field verify dimensions prior to installation for critical dimensions.					

STC

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All shipments are F.O.B. 892 Commercial Street, Palo Alto, CA 94303, USA. Most orders are shipped via UPS Standard Ground unless instructions accompany order. Outside the UPS zones, shipment will be made Best Way. The responsibility for goods delay, lost or damaged in transit rests with the carrier and purchaser. Purchaser may purchase shipping insurance to cover lost or damaged products caused by shipping.

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Remittances should be sent to:

Sizto Tech Corporation, 892 Commercial Street, Palo Alto, CA 94303, USA Credit Card Payments: Visa, MasterCard, Discover, or American Express accepted

International Customers: Advance Payment Required via Bank Wire, Cashier's Check or Approved Credit Card.

Credit Application: To establish a net 30 day account, please mail or fax three trade references with complete mailing addresses and account numbers, or request an STC Credit Application.

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You warrant, represent and agree: (1) to comply with all laws; (2) that our sale and shipment of the product will not, by export thereof, your legal status or otherwise, cause us to violate any law; and (3) to indemnify us against any losses from a failure by you or a third party to comply with law or these terms and conditions, or from use of the product.

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