







Composite Push-In Fittings

Composite Fittings							
Model		Male Connector with Internal Hex	Compact Male Connector with Internal Hex	Male Elbow	Branch Tee	Run Tee	Y Connector
Tube OD	Pipe Size	MC	CC	ME	BT	RT	YC
1/8	10-32UNF	MC 1/8 10-32	CC 1/8 10-32	ME 1/8 10-32	BT 1/8 10-32	RT 1/8 10-32	YC 1/8 10-32
1/8	NPT1/8	MC 1/8 N1/8	CC 1/8 N1/8	ME 1/8 N1/8	BT 1/8 N1/8	RT 1/8 N1/8	YC 1/8 N1/8
1/8	NPT1/4	MC 1/8 N1/4	CC 1/8 N1/4	ME 1/8 N1/4	BT 1/8 N1/4		
5/32	10-32UNF	MC 5/32 10-32	CC 5/32 10-32	ME 5/32 10-32	BT 5/32 10-32	RT 5/32 10-32	YC 5/32 10-32
5/32	NPT1/8	MC 5/32 N1/8	CC 5/32 N1/8	ME 5/32 N1/8	BT 5/32 N1/8	RT 5/32 N1/8	YC 5/32 N1/8
5/32	NPT1/4	MC 5/32 N1/4	CC 5/32 N1/4	ME 5/32 N1/4	BT 5/32 N1/4	RT 5/32 N1/4	YC 5/32 N1/4
3/16	10-32UNF	MC 3/16 10-32		ME 3/16 10-32	BT 3/16 10-32	RT 3/16 10-32	YC 3/16 10-32
3/16	NPT1/8	MC 3/16 N1/8		ME 3/16 N1/8	BT 3/16 N1/8	RT 3/16 N1/8	YC 3/16 N1/8
3/16	NPT1/4	MC 3/16 N1/4		ME 3/16 N1/4	BT 3/16 N1/4	RT 3/16 N1/4	YC 3/16 N1/4
3/16	NPT3/8	MC 3/16 N3/8		ME 3/16 N3/8	BT 3/16 N3/8	RT 3/16 N3/8	YC 3/16 N3/8
1/4	10-32UNF	MC 1/4 10-32	CC 1/4 10-32	ME 1/4 10-32	BT 1/4 10-32	RT 1/4 10-32	YC 1/4 10-32
1/4	NPT1/8	MC 1/4 N1/8	CC 1/4 N1/8	ME 1/4 N1/8	BT 1/4 N1/8	RT 1/4 N1/8	YC 1/4 N1/8
1/4	NPT1/4	MC 1/4 N1/4	CC 1/4 N1/4	ME 1/4 N1/4	BT 1/4 N1/4	RT 1/4 N1/4	YC 1/4 N1/4
1/4	NPT3/8	MC 1/4 N3/8		ME 1/4 N3/8	BT 1/4 N3/8	RT 1/4 N3/8	YC 1/4 N3/8
5/16	NPT1/8	MC 5/16 N1/8		ME 5/16 N1/8	BT 5/16 N1/8	RT 5/16 N1/8	YC 5/16 N1/8
5/16	NPT1/4	MC 5/16 N1/4		ME 5/16 N1/4	BT 5/16 N1/4	RT 5/16 N1/4	YC 5/16 N1/4
5/16	NPT3/8	MC 5/16 N3/8		ME 5/16 N3/8	BT 5/16 N3/8	RT 5/16 N3/8	YC 5/16 N3/8
3/8	NPT1/8	MC 3/8 N1/8	CC 3/8 N1/8	ME 3/8 N1/8	BT 3/8 N1/8	RT 3/8 N1/8	YC 3/8 N1/8
3/8	NPT1/4	MC 3/8 N1/4	CC 3/8 N1/4	ME 3/8 N1/4	BT 3/8 N1/4	RT 3/8 N1/4	YC 3/8 N1/4
3/8	NPT3/8	MC 3/8 N3/8	CC 3/8 N3/8	ME 3/8 N3/8	BT 3/8 N3/8	RT 3/8 N3/8	YC 3/8 N3/8
3/8	NPT1/2	MC 3/8 N1/2		ME 3/8 N1/2	BT 3/8 N1/2	RT 3/8 N1/2	YC 3/8 N1/2
1/2	NPT1/4	MC 1/2 N1/4	CC 1/2 N1/4	ME 1/2 N1/4	BT 1/2 N1/4	RT 1/2 N1/4	YC 1/2 N1/4
1/2	NPT3/8	MC 1/2 N3/8	CC 1/2 N3/8	ME 1/2 N3/8	BT 1/2 N3/8	RT 1/2 N3/8	YC 1/2 N3/8
1/2	NPT1/2	MC 1/2 N1/2		ME 1/2 N1/2	BT 1/2 N1/2	RT 1/2 N1/2	YC 1/2 N1/2

4 mm	M5X0.8	MC 4 M5		ME 4 M5	BT 4 M5	RT 4 M5	YC 4 M5
4 mm	M6X1	MC 4 M6		ME 4 M6	BT 4 M6	RT 4 M6	YC 4 M6
4 mm	R1/8	MC 4 R1/8		ME 4 R1/8	BT 4 R1/8	RT 4 R1/8	YC 4 R1/8
4 mm	R1/4	MC 4 R1/4		ME 4 R1/4	BT 4 R1/4	RT 4 R1/4	YC 4 R1/4
6 mm	M5X0.8	MC 6 M5		ME 6 M5	BT 6 M5	RT 6 M5	YC 6 M5
6 mm	M6X1	MC 6 M6		ME 6 M6	BT 6 M6	RT 6 M6	YC 6 M6
6 mm	R1/8	MC 6 R1/8		ME 6 R1/8	BT 6 R1/8	RT 6 R1/8	YC 6 R1/8
6 mm	R1/4	MC 6 R1/4		ME 6 R1/4	BT 6 R1/4	RT 6 R1/4	YC 6 R1/4
6 mm	R3/8	MC 6 R3/8		ME 6 R3/8	BT 6 R3/8	RT 6 R3/8	YC 6 R3/8
6 mm	R1/2	MC 6 R1/2		ME 6 R1/2	BT 6 R1/2	RT 6 R1/2	YC 6 R1/2
8 mm	R1/8	MC 8 R1/8		ME 8 R1/8	BT 8 R1/8	RT 8 R1/8	YC 8 R1/8
8 mm	R1/4	MC 8 R1/4		ME 8 R1/4	BT 8 R1/4	RT 8 R1/4	YC 8 R1/4
8 mm	R3/8	MC 8 R3/8		ME 8 R3/8	BT 8 R3/8	RT 8 R3/8	YC 8 R3/8
8 mm	R1/2	MC 8 R1/2		ME 8 R1/2	BT 8 R1/2	RT 8 R1/2	YC 8 R1/2
10 mm	R1/8	MC 10 R1/8		ME 10 R1/8	BT 10 R1/8	RT 10 R1/8	YC 10 R1/8
10 mm	R1/4	MC 10 R1/4		ME 10 R1/4	BT 10 R1/4	RT 10 R1/4	YC 10 R1/4
10 mm	R3/8	MC 10 R3/8		ME 10 R3/8	BT 10 R3/8	RT 10 R3/8	YC 10 R3/8
10 mm	R1/2	MC 10 R1/2		ME 10 R1/2	BT 10 R1/2	RT 10 R1/2	YC 10 R1/2
12 mm	R1/4	MC 12 R1/4		ME 12 R1/4	BT 12 R1/4	RT 12 R1/4	YC 12 R1/4
12 mm	R3/8	MC 12 R3/8		ME 12 R3/8	BT 12 R3/8	RT 12 R3/8	YC 12 R3/8
12 mm	R1/2	MC 12 R1/2		ME 12 R1/2	BT 12 R1/2	RT 12 R1/2	YC 12 R1/2

Composite Push-In Fittings





Composite Fittings							
Model		Universal Elbow	Extended Elbow	Female Connector	Female Elbow	Bulkhead Connector	Control Valve CV=meter-out; CI= meter-in
Tube OD	Pipe Size	UE	EE	FC	FE	BC	CV or CI
1/8	10-32UNF	UE 1/8 10-32		FC 1/8 10-32	FE 1/8 10-32		CV 1/8 10-32
1/8	NPT1/8	UE 1/8 N1/8		FC 1/8 N1/8	FE 1/8 N1/8	BC 1/8 N1/8	CV 1/8 N1/8
5/32	10-32UNF	UE 5/32 10-32	EE 5/32 10-32	FC 5/32 10-32	FE 5/32 10-32		CV 5/32 10-32
5/32	NPT1/8	UE 5/32 N1/8	EE 5/32 N1/8	FC 5/32 N1/8	FE 5/32 N1/8	BC 5/32 N1/8	CV 5/32 N1/8
5/32	NPT1/4			FC 5/32 N1/4	FE 5/32 N1/4	BC 5/32 N1/4	CV 5/32 N1/4
3/16	10-32UNF	UE 3/16 10-32			FE 3/16 10-32		
3/16	NPT1/8	UE 3/16 N1/8	EE 3/16 N1/8		FE 3/16 N1/8	BC 3/16 N1/8	CV 3/16 N1/8
3/16	NPT1/4	UE 3/16 N1/4	EE 3/16 N1/4		FE 3/16 N1/4	BC 3/16 N1/4	
3/16	NPT3/8		EE 3/16 N3/8				
1/4	10-32UNF	UE 1/4 10-32			FE 1/4 10-32		CV 1/4 10-32
1/4	NPT1/8	UE 1/4 N1/8	EE 1/4 N1/8	FC 1/4 N1/8	FE 1/4 N1/8	BC 1/4 N1/8	CV 1/4 N1/8
1/4	NPT1/4	UE 1/4 N1/4	EE 1/4 N1/4	FC 1/4 N1/4	FE 1/4 N1/4	BC 1/4 N1/4	CV 1/4 N1/4
1/4	NPT3/8		EE 1/4 N3/8		FE 1/4 N3/8		CV 1/4 N3/8
5/16	NPT1/8	UE 5/16 N1/8	EE 5/16 N1/8	FC 5/16 N1/8	FE 5/16 N1/8	BC 5/16 N1/8	CV 5/16 N1/8
5/16	NPT1/4	UE 5/16 N1/4	EE 5/16 N1/4	FC 5/16 N1/4	FE 5/16 N1/4	BC 5/16 N1/4	CV 5/16 N1/4
5/16	NPT3/8	UE 5/16 N3/8	EE 5/16 N3/8	FC 5/16 N3/8	FE 5/16 N3/8		CV 5/16 N3/8
3/8	NPT1/8	UE 3/8 N1/8					
3/8	NPT1/4	UE 3/8 N1/4	EE 3/8 N1/4	FC 3/8 N1/4	FE 3/8 N1/4	BC 3/8 N1/4	CV 3/8 N1/4
3/8	NPT3/8	UE 3/8 N3/8	EE 3/8 N3/8	FC 3/8 N3/8	FE 3/8 N3/8	BC 3/8 N3/8	CV 3/8 N3/8
3/8	NPT1/2		EE 3/8 N1/2	FC 3/8 N1/2	FE 3/8 N1/2		CV 3/8 N1/2
1/2	NPT1/4		EE 1/2 N1/4	FC 1/2 N1/4			
1/2	NPT3/8	UE 1/2 N3/8	EE 1/2 N3/8	FC 1/2 N3/8		BC 1/2 N3/8	CV 1/2 N3/8
1/2	NPT1/2	UE 1/2 N1/2	EE 1/2 N1/2			BC 1/2 N1/2	CV 1/2 N1/2

4 mm	M5X0.8	UE 4 M5	EE 4 M5		FE 4 M5		CV 4 M5
4 mm	M6X1	UE 4 M6	EE 4 M6		FE 4 M6		CV 4 M6
4 mm	R1/8	UE 4 R1/8	EE 4 R1/8	FC 4 R1/8	FE 4 R1/8	BC 4 R1/8	CV 4 R1/8
4 mm	R1/4	UE 4 R1/4	EE 4 R1/4	FC 4 R1/4	FE 4 R1/4	BC 4 R1/4	CV 4 R1/4
6 mm	M5X0.8	UE 6 M5	EE 6 M5		FE 6 M5		CV 6 M5
6 mm	M6X1	UE 6 M6	EE 6 M6		FE 6 M6		CV 6 M6
6 mm	R1/8	UE 6 R1/8	EE 6 R1/8	FC 6 R1/8	FE 6 R1/8	BC 6 R1/8	CV 6 R1/8
6 mm	R1/4	UE 6 R1/4	EE 6 R1/4	FC 6 R1/4	FE 6 R1/4	BC 6 R1/4	CV 6 R1/4
6 mm	R3/8	UE 6 R3/8	EE 6 R3/8	FC 6 R3/8	FE 6 R3/8	BC 6 R3/8	CV 6 R3/8
6 mm	R1/2		EE 6 R1/2				
8 mm	R1/8	UE 8 R1/8	EE 8 R1/8	FC 8 R1/8	FE 8 R1/8	BC 8 R1/8	CV 8 R1/8
8 mm	R1/4	UE 8 R1/4	EE 8 R1/4	FC 8 R1/4	FE 8 R1/4	BC 8 R1/4	CV 8 R1/4
8 mm	R3/8	UE 8 R3/8	EE 8 R3/8	FC 8 R3/8	FE 8 R3/8	BC 8 R3/8	CV 8 R3/8
8 mm	R1/2	UE 8 R1/2	EE 8 R1/2	FC 8 R1/2		BC 8 R1/2	CV 8 R1/2
10 mm	R1/8		EE 10 R1/8	FC 10 R1/8	FE 10 R1/8	BC 10 R1/8	
10 mm	R1/4	UE 10 R1/4	EE 10 R1/4	FC 10 R1/4	FE 10 R1/4	BC 10 R1/4	CV 10 R1/4
10 mm	R3/8	UE 10 R3/8	EE 10 R3/8	FC 10 R3/8	FE 10 R3/8	BC 10 R3/8	CV 10 R3/8
10 mm	R1/2	UE 10 R1/2	EE 10 R1/2	FC 10 R1/2	FE 10 R1/2	BC 10 R1/2	CV 10 R1/2
12 mm	R1/4	UE 12 R1/4	EE 12 R1/4	FC 12 R1/4	FE 12 R1/4	BC 12 R1/4	CV 12 R1/4
12 mm	R3/8	UE 12 R3/8	EE 12 R3/8	FC 12 R3/8	FE 12 R3/8	BC 12 R3/8	CV 12 R3/8
12 mm	R1/2	UE 12 R1/2	EE 12 R1/2	FC 12 R1/2	FE 12 R1/2	BC 12 R1/2	CV 12 R1/2

Composite Push-In Fittings

Composite Fittings								
Model	Flow Valve	Bulkhead Union	Cross Union	Elbow Union	Straight Union	Tee Union	Y Union	
Tube OD	FV	BU	CU	EU	SU	TU	YU	
1/8	FV 1/8	BU 1/8	CU 1/8	EU 1/8	SU 1/8	TU 1/8	YU 1/8	
5/32	FV 5/32	BU 5/32	CU 5/32	EU 5/32	SU 5/32	TU 5/32	YU 5/32	
3/16	FV 3/16	BU 3/16	CU 3/16	EU 3/16	SU 3/16	TU 3/16	YU 3/16	
1/4	FV 1/4	BU 1/4	CU 1/4	EU 1/4	SU 1/4	TU 1/4	YU 1/4	
5/16	FV 5/16	BU 5/16	CU 5/16	EU 5/16	SU 5/16	TU 5/16	YU 5/16	
3/8	FV 3/8	BU 3/8	CU 3/8	EU 3/8	SU 3/8	TU 3/8	YU 3/8	
1/2	FV 1/2	BU 1/2	CU 1/2	EU 1/2	SU 1/2	TU 1/2	YU 1/2	
4 mm	FV 04	BU 4	CU 4	EU 4	SU 4	TU 4	YU 4	
6 mm	FV 06	BU 6	CU 6	EU 6	SU 6	TU 6	YU 6	
8 mm	FV 08	BU 8	CU 8	EU 8	SU 8	TU 8	YU 8	
10 mm	FV 10	BU 10	CU 10	EU 10	SU 10	TU 10	YU 10	
Composite Fittings	FV 12	BU 12	CU 12	EU 12	SU 12	TU 12	YU 12	
Model	Elbow Reducer (Tube-Stem)	Plug In Elbow	Male Manifold	Manifold Union	Reduced Branch	Reduced Union	Tee Reducer	
Tube OD	ER	PE	MM	MU	RB	RU	TR	
1/8	ER 1/8-5/32	PE 1/8	MM 1/4-5/32-N1/8	MU 5/32X1/8	RB 5/32-1/8	RU 5/32-1/8	TR 5/32-1/8	
5/32	ER 5/32-1/4	PE 5/32	MM 5/16-5/32-N1/4	MU 1/4X5/32	RB 3/16-5/32	RU 3/16-5/32	TR 3/16-1/8	
3/16		PE 3/16	MM 5/16-1/4-N1/4	MU 5/16X5/32	RB 1/4-5/32	RU 1/4-5/32	TR 1/4-5/32	
1/4	ER 1/4-5/16	PE 1/4		MU 5/16X1/4	RB 1/4-3/16	RU 1/4-3/16	TR 1/4-3/16	
5/16	ER 5/16-3/8	PE 5/16		MU 3/8X1/4	RB 5/16-1/4	RU 5/16-1/4	TR 5/16-1/4	
3/8	ER 3/8-1/2	PE 3/8			RB 3/8-1/4	RU 3/8-1/4	TR 3/8-1/4	
1/2		PE 1/2			RB 3/8-5/16	RU 3/8-5/16	TR 3/8-5/16	
4 mm			MM 06-04-R1/8	MU 6-4	RB 1/2-3/8	RU 1/2-3/8	TR 1/2-3/8	
6 mm	ER 4-6	PE 4	MM 08-04-R1/4	MU 8-4	RB 6-4	RU 6-4	TR 6-4	
8 mm	ER 6-8	PE 6	MM 08-06-R3/8	MU 8-6	RB 8-6	RU 8-6	TR 8-6	
10 mm	ER 8-10	PE 8	MM 10-08-R3/8	MU 10-6	RB 10-8	RU 10-8	TR 10-8	
12 mm	ER 10-12	PE 10		MU 10-8	RB 12-10	RU 12-10	TR 12-10	
Composite Fittings								
Model	Plug	Stem Coupler	Stem Reducer	Tube Reducer (Tube-Stem)	Model	Stack Elbow	Male Angle	
Tube OD	PG	SC	SR	TR	Tube OD	Pipe Size	SE	MA
1/8	PG 1/8	SC 1/8			5/32	10-32	SE 5/32 10-32	MA 5/32 10-32
5/32	PG 5/32	SC 5/32	SR 1/8-5/32	TR 1/8-5/32	5/32	NPT1/8	SE 5/32 N1/8	MA 5/32 N1/8
3/16					1/4	10-32	SE 1/4 10-32	MA 1/4 10-32
1/4	PG 1/4	SC 1/4	SR 5/32-1/4	TR 5/32-1/4	1/4	NPT1/8	SE 1/4 N1/8	MA 1/4 N1/8
5/16	PG 5/16	SC 5/16	SR 1/4-5/16	TR 1/4-5/16	1/4	NPT1/4	SE 1/4 N1/4	MA 1/4 N1/4
3/8	PG 3/8	SC 3/8	SR 1/4-3/8	TR 1/4-3/8	5/16	NPT1/4	SE 5/16 N1/4	MA 5/16 N1/4
1/2	PG 1/2	SC 1/2	SR 3/8-1/2	TR 3/8-1/2	5/16	NPT3/8	SE 5/16 N3/8	MA 5/16 N3/8
4 mm	PG 4	SC 4			3/8	NPT1/4	SE 3/8 N1/4	MA 3/8 N1/4
6 mm	PG 6	SC 6	SR 4-6	TR 4-6	3/8	NPT3/8	SE 3/8 N3/8	MA 3/8 N3/8
8 mm	PG 8	SC 8	SR 6-8	TR 6-8				
10 mm	PG10	SC10	SR 8-10	TR 8-10	1/2	NPT3/8	SE 1/2 N3/8	MA 1/2 N3/8
12 mm	PG 12	SC 12	SR 10-12	TR 10-12	1/2	NPT1/2	SE 1/2 N1/2	MA 1/2 N1/2

316 Stainless Steel Push-In Fittings

Stainless Steel Fittings								
	Bulkhead Union		Elbow Union		Straight Union		Tee Union	
Name	Part No.		Part No.		Part No.		Part No.	
Tube OD								
1/8"	BUS 1/8		EUS 1/8		SUS 1/8		TUS 1/8	
5/32"	BUS 5/32		EUS 5/32		SUS 5/32		TUS 5/32	
1/4"	BUS 1/4		EUS 1/4		SUS 1/4		TUS 1/4	
5/16"	BUS 5/16		EUS 5/16		SUS 5/16		TUS 5/16	
3/8"	BUS 3/8		EUS 3/8		SUS 3/8		TUS 3/8	
1/2"	BUS 1/2		EUS 1/2		SUS 1/2		TUS 1/2	



4 mm	BUS 4	EUS 4	SUS 4	TUS 4
6 mm	BUS 6	EUS 6	SUS 6	TUS 6
8 mm	BUS 8	EUS 8	SUS 8	TUS 8
10 mm	BUS 10	EUS 10	SUS 10	TUS 10
12 mm	BUS 12	EUS 12	SUS 12	TUS 12






Stainless Steel Fittings										
	Branch Tee		Female Connector		Male Connector		Male Elbow, Swivel		Y Connector, Swivel	
Tube OD X Thread	Part No.		Part No.		Part No.		Part No.		Part No.	
1/8" X 10-32	BTS 1/8 10-32		FCS 1/8 10-32		MCS 1/8 10-32		MES 1/8 10-32		YCS 1/8 10-32	
1/8" X 1/8" NPT	BTS 1/8 N1/8		FCS 1/8 N1/8		MCS 1/8 N1/8		MES 1/8 N1/8		YCS 1/8 N1/8	
5/32" X 10-32	BTS 5/32 10-32		FCS 5/32 10-32		MCS 5/32 10-32		MES 5/32 10-32		YCS 5/32 10-32	
5/32" X 1/8" NPT	BTS 5/32 N1/8		FCS 5/32 N1/8		MCS 5/32 N1/8		MES 5/32 N1/8		YCS 5/32 N1/8	
1/4" X 1/8" NPT	BTS 1/4 N1/8		FCS 1/4 N1/8		MCS 1/4 N1/8		MES 1/4 N1/8		YCS 1/4 N1/8	
1/4" X 1/4" NPT	BTS 1/4 N1/4		FCS 1/4 N1/4		MCS 1/4 N1/4		MES 1/4 N1/4		YCS 1/4 N1/4	
1/4" X 3/8" NPT	BTS 1/4 N3/8		FCS 1/4 N3/8		MCS 1/4 N3/8		MES 1/4 N3/8		YCS 1/4 N3/8	
5/16" X 1/4" NPT	BTS 5/16 N1/4		FCS 5/16 N1/4		MCS 5/16 N1/4		MES 5/16 N1/4		YCS 5/16 N1/4	
5/16" X 3/8" NPT	BTS 5/16 N3/8		FCS 5/16 N3/8		MCS 5/16 N3/8		MES 5/16 N3/8		YCS 5/16 N3/8	
3/8" X 1/4" NPT	BTS 3/8 N1/4		FCS 3/8 N1/4		MCS 3/8 N1/4		MES 3/8 N1/4		YCS 3/8 N1/4	
3/8" X 3/8" NPT	BTS 3/8 N3/8		FCS 3/8 N3/8		MCS 3/8 N3/8		MES 3/8 N3/8		YCS 3/8 N3/8	
3/8" X 1/2" NPT	BTS 3/8 N1/2		FCS 3/8 N1/2		MCS 3/8 N1/2		MES 3/8 N1/2		YCS 3/8 N1/2	
1/2" X 1/4" NPT	BTS 1/2 N1/4		FCS 1/2 N1/4		MCS 1/2 N1/4		MES 1/2 N1/4		YCS 1/2 N1/4	
1/2" X 3/8" NPT	BTS 1/2 N3/8		FCS 1/2 N3/8		MCS 1/2 N3/8		MES 1/2 N3/8		YCS 1/2 N3/8	
1/2" X 1/2" NPT	BTS 1/2 N1/2		FCS 1/2 N1/2		MCS 1/2 N1/2		MES 1/2 N1/2		YCS 1/2 N1/2	

4 mm X 10-32	BTS 4 M5	FCS 4 M5	MCS 4 M5	MES 4 M5	YCS 4 M5
4 mm X 1/8" NPT	BTS 4 N1/8	FCS 4 N1/8	MCS 4 N1/8	MES 4 N1/8	YCS 4 N1/8
8 mm X 1/4" NPT	BTS 8 N1/4	FCS 8 N1/4	MCS 8 N1/4	MES 8 N1/4	YCS 8 N1/4
8 mm X 3/8" NPT	BTS 8 N3/8	FCS 8 N3/8	MCS 8 N3/8	MES 8 N3/8	YCS 8 N3/8

Nickel-Plated Brass Push-In Fittings

Brass Fittings								
Name	Bulkhead Union		Elbow Union		Straight Union		Tee Union	
Tube OD	Part No.		Part No.		Part No.		Part No.	
1/8"	BUB 1/8		EUB 1/8		SUB 1/8		TUB 1/8	
5/32"	BUB 5/32		EUB 5/32		SUB 5/32		TUB 5/32	
1/4"	BUB 1/4		EUB 1/4		SUB 1/4		TUB 1/4	
5/16"	BUB 5/16		EUB 5/16		SUB 5/16		TUB 5/16	
3/8"	BUB 3/8		EUB 3/8		SUB 3/8		TUB 3/8	
1/2"	BUB 1/2		EUB 1/2		SUB 1/2		TUB 1/2	
4 mm	BUB 4		EUB 4		SUB 4		TUB 4	
6 mm	BUB 6		EUB 6		SUB 6		TUB 6	
8 mm	BUB 8		EUB 8		SUB 8		TUB 8	

Brass Fittings										
Name	Branch Tee		Female Connector		Male Connector		Male Elbow, Swivel		Y Connector, Swivel	
Tube OD X Thread	Part No.		Part No.		Part No.		Part No.		Part No.	
1/8" X 10-32	BTB 1/8 10-32		FCB 1/8 10-32		MCB 1/8 10-32		MEB 1/8 10-32		YCB 1/8 10-32	
1/8" X 1/8" NPT	BTB 1/8 N1/8		FCB 1/8 N1/8		MCB 1/8 N1/8		MEB 1/8 N1/8		YCB 1/8 N1/8	
5/32" X 10-32	BTB 5/32 10-32		FCB 5/32 10-32		MCB 5/32 10-32		MEB 5/32 10-32		YCB 5/32 10-32	
5/32" X 1/8" NPT	BTB 5/32 N1/8		FCB 5/32 N1/8		MCB 5/32 N1/8		MEB 5/32 N1/8		YCB 5/32 N1/8	
1/4" X 1/8" NPT	BTB 1/4 N1/8		FCB 1/4 N1/8		MCB 1/4 N1/8		MEB 1/4 N1/8		YCB 1/4 N1/8	
1/4" X 1/4" NPT	BTB 1/4 N1/4		FCB 1/4 N1/4		MCB 1/4 N1/4		MEB 1/4 N1/4		YCB 1/4 N1/4	
1/4" X 3/8" NPT	BTB 1/4 N3/8		FCB 1/4 N3/8		MCB 1/4 N3/8		MEB 1/4 N3/8		YCB 1/4 N3/8	
5/16" X 1/4" NPT	BTB 5/16 N1/4		FCB 5/16 N1/4		MCB 5/16 N1/4		MEB 5/16 N1/4		YCB 5/16 N1/4	
5/16" X 3/8" NPT	BTB 5/16 N3/8		FCB 5/16 N3/8		MCB 5/16 N3/8		MEB 5/16 N3/8		YCB 5/16 N3/8	
3/8" X 1/4" NPT	BTB 3/8 N1/4		FCB 3/8 N1/4		MCB 3/8 N1/4		MEB 3/8 N1/4		YCB 3/8 N1/4	
3/8" X 3/8" NPT	BTB 3/8 N3/8		FCB 3/8 N3/8		MCB 3/8 N3/8		MEB 3/8 N3/8		YCB 3/8 N3/8	
3/8" X 1/2" NPT	BTB 3/8 N1/2		FCB 3/8 N1/2		MCB 3/8 N1/2		MEB 3/8 N1/2		YCB 3/8 N1/2	
1/2" X 3/8" NPT	BTB 1/2 N3/8		FCB 1/2 N3/8		MCB 1/2 N3/8		MEB 1/2 N3/8		YCB 1/2 N3/8	
1/2" X 1/2" NPT	BTB 1/2 N1/2		FCB 1/2 N1/2		MCB 1/2 N1/2		MEB 1/2 N1/2		YCB 1/2 N1/2	
4 mm X M5	BTB 4 M5		FCB 4 M5		MCB 4 M5		MEB 4 M5		YCB 4 M5	
4 X 1/8" NPT	BTB 4 N1/8		FCB 4 N1/8		MCB 4 N1/8		MEB 4 N1/8		YCB 4 N1/8	
8 mm X 1/4" NPT	BTB 8 N1/4		FCB 8 N1/4		MCB 8 N1/4		MEB 8 N1/4		YCB 8 N1/4	
8 mm X 3/8" NPT	BTB 8 N3/8		FCB 8 N3/8		MCB 8 N3/8		MEB 8 N3/8		YCB 8 N3/8	

Metal Fittings							
Name	Quick Exhaust	Shuttle Valve	In-line Flow Control	In-line Flow Control	Speed Control Muffler	Muffler	Union Valve
MODEL	QE	ST	ASC	AS	BESL	BSL	UV
PORT	NPT	NPT	NPT	NPT	NPT	NPT	
10-32			ASC 10-32		BESL 10-32	BSL 10-32	
1/8	QE N1/8	ST N1/8	ASC N1/8	AS N1/8	BESL N1/8	BSL N1/8	UV 1/4-1/4
1/4	QE N1/4	ST N1/4	ASC N1/4	AS N1/4	BESL N1/4	BSL N1/4	UV 6-6
3/8	QE N3/8	ST N3/8	ASC N3/8	AS N3/8	BESL N3/8	BSL N3/8	
1/2	QE N1/2	ST N1/2	ASC N1/2	AS N1/2	BESL N1/2	BSL N1/2	
3/4	QE N3/4	ST N3/4					

Composite, Stainless Steel, and Nickel-Plated Brass Push-In Fittings Specifications

A. Installation of Pipe Fittings:

1. Tighten fitting by hand, then turn it 2 to 3 turns with a wrench until it reaches the desire torque listed. If the fitting is 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
NPT1/8, R1/8	5 -6.5	70 -90
NPT1/4, R1/4	8.5 -10	120 -140
NPT3/8, R3/8	16 -17.5	220 -240
NPT1/2, R1/2	20 -21.5	280 -300

B. Installation of Tubing into Fitting:

1. Slowly push a clean and perpendicularly cut tubing into the fitting until it comes to a dead stop.
2. Pull the tubing back gently 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.
Hard metal tubing can be used for all metal Stainless Steel and all Brass fittings if tubing is pre-grooved.

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 keeping the Release Button depressed.
3. To reuse the tubing; cut off the lodged portion of the previously used tubing evenly and perpendicularly.

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 or higher
Polypropylene	+/- 0.004" (+/-0.1 mm)	Shore D 44 or higher
Nylon	+/- 0.004" (+/-0.1 mm)	Shore D 44 or higher
Pre-grooved Metal Tubing	+/- 0.004" (+/-0.1 mm)	

E. Specifications, Materials of Construction and Schematic of Typical Construction:

	Composite Fittings	Stainless Steel Fittings	Nickel-Plated Brass Fittings
Operating Pressure Range	0 - 150 PSI (0 - 990 kpa)	0 - 250 PSI (0 - 1650 kpa)	0 - 250 PSI (0 - 1650 kpa)
Vacuum	0 - 29.5 in Hg (750 mm Hg)	0 - 29.5 in Hg (750 mm Hg)	0 - 29.5 in Hg (750 mm Hg)
Operating Temperature	32 - 140 °F (0 - 60 °C)	5 - 230 °F (-15 to 110 °C)	5 - 230 °F (-15 to 110 °C)
Recommended Tubing Material	Polyurethane, Nylon, Polyethylene, Polypropylene	Polyurethane, Nylon, Polyethylene, Polypropylene, and Hard metal tubing (tubing must be pre-grooved)	
Metal Body	Brass, Nickel Plated	T316 Stainless Steel	Nickel-Plated Brass
Plastic Body	PBT (Polybutylene terephthalate)	None	None
Release Button	POM (Poly oxy methylene copolymer)	300 series Stainless Steel	Nickel-Plated Brass
Grip Ring or Collet	300 series Stainless Steel	300 series Stainless Steel	300 series Stainless Steel
O-ring	NBR (Buna-N)	VITON	NBR/VITON/EPDM
Thread Sealant	Teflon	None	Teflon

GUIDE (NICKEL-PLATED METAL)
RELEASE BUTTON (POM)

O-RING (BUNA-N)

METAL BODY (NICKEL-PLATED BRASS)
THREAD (PRE-COATED SEALANT)

SCHMATIC OF TYPICAL COMPOSITE FITTING CONSTRUCTION

316 STAINLESS or NICKEL-PLATED BRASS
RELEASE BUTTON & COLLET

VITON or NBR O-RING

TUBE

316 STAINLESS or NICKEL-PLATED
BRASS BODY

SCHMATIC OF TYPICAL 316 STAINLESS or NICKEL-PLATED BRASS FITTING CONSTRUCTION