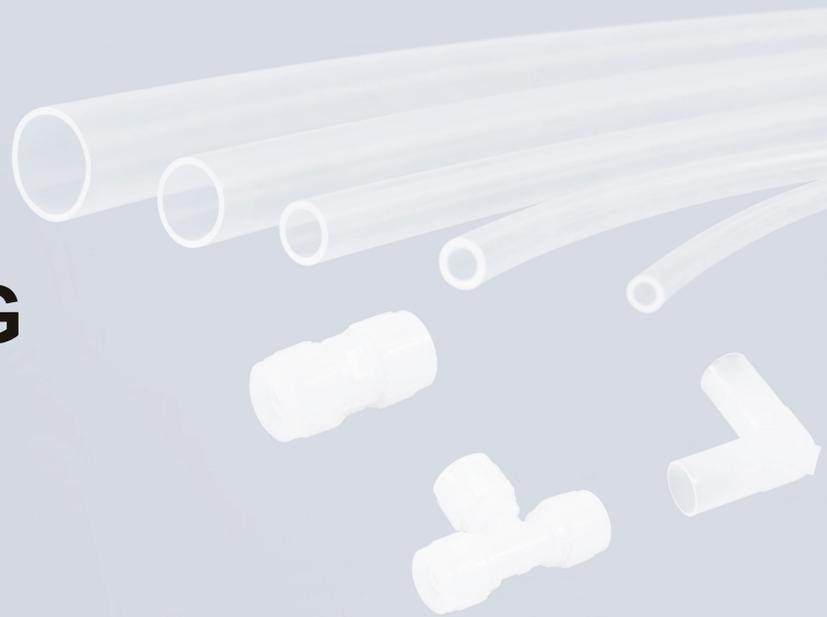


PFA TUBE & FITTING



KOSCN PFA tube and fitting are produced with electronic grade PFA raw materials from well-known foreign manufacturers. Extrusion pipes are produced, packaged and injected in a thousand-grade clean room. The fitting is produced in the Class ten thousand clean room and is packaged in the class 100 clean room after chemical and ultra-pure water cleaning. KOSCN has its own chemical and physical analysis laboratories with facilities in the United States Agilent ICP-MAS metal ion detection equipment and Japanese RION test Particle and other equipment to meet the high-end chip process quality control requirements.

Easy installation and maintenance

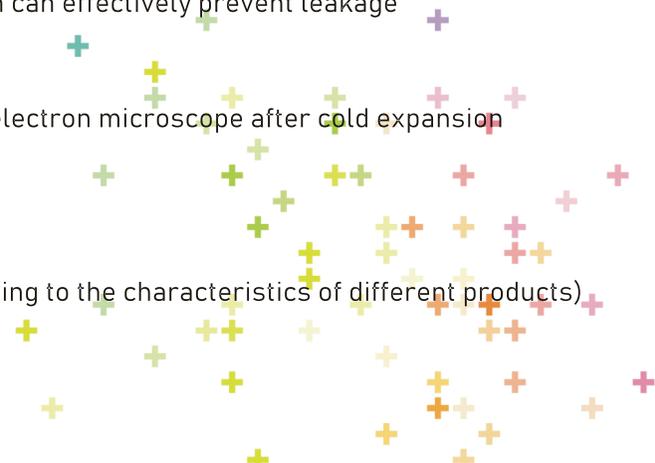
- * Spigot Butt+IR butt welding type with long mouth design, easy to weld clamping and repair
- * Insert Bushing bead configuration has special tools for easy installation
- * UNF standard thread, higher compatibility and interchangeability
- * Installation standard meets F65-1101

High safety performance

- * Meet FDA 177-1520/177-1550 dissolution test requirements
- * Products comply with SEMI F057 standard
- * The bead joint has a unique three-way prepressure seal, which can effectively prevent leakage
- * Bead entry joint with high precision locking instructions
- * High temperature and extreme burst type test
- * The molecular structure of the formed parts was analyzed by electron microscope after cold expansion

Performance characteristics

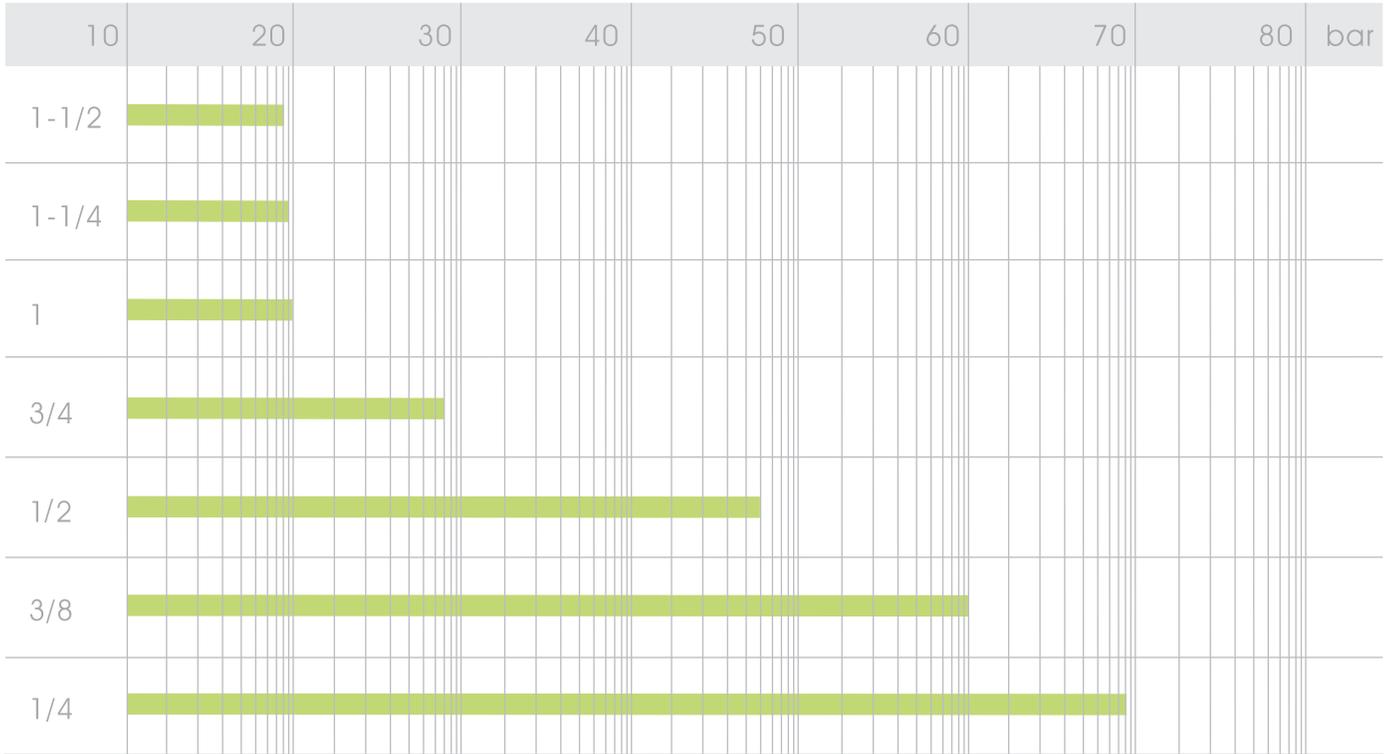
- * Use pressure 0... 7 bar
- * Temperature tolerance -40... 260°C (need to be selected according to the characteristics of different products)
- * Surface roughness $Ra \leq 0.15 \mu m$



Ultimate withstand pressure standard

The extrusion production time of the product is greater than 24 hours, and the temperature of the placing environment and the experimental environment is 22°C.

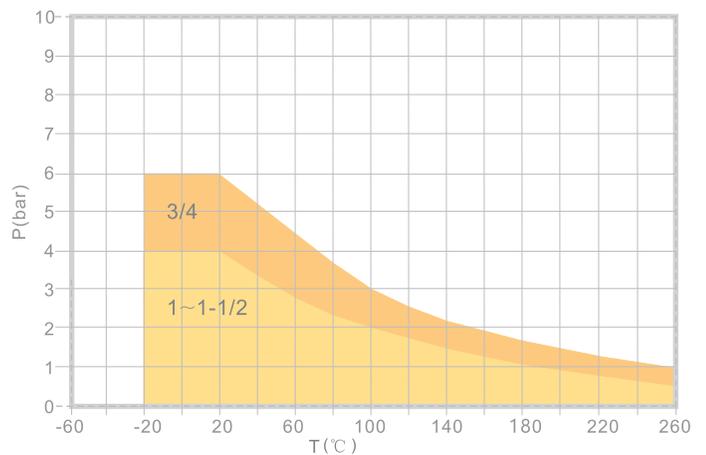
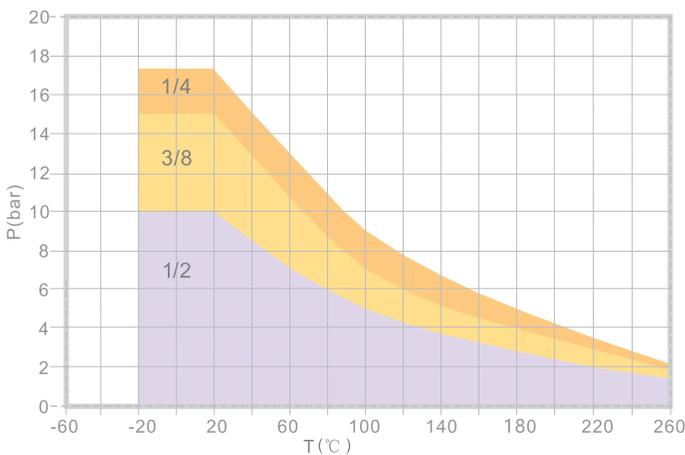
The 150mm length product is pressurized with clean water at 22°C, and after reaching and maintaining the rated use pressure for 1 hour, the pressure is pressurized at a speed of 2bar/5S until the pressure value of the PFA pipeline rupture is greater than the following standards.



* Infrared welds made by KOSCN meet the same criteria as above, including tube and tube welding, pipe and tube fitting welding.

Maximum operating pressure and temperature

The pressure and temperature in the actual application shall be lower than the nominal values allowed by the tube and joint specifications.



* The piping system needs to be effectively fixed to avoid use in the case of shaking and loosening.

When used for a long time in high temperature or alternating hot and cold, regular inspection and maintenance are needed to prevent leakage caused by material changes and life.

PFA Tube & Fitting Performance Data

Minimum bending radius and yield value

The extrusion production time of the product is greater than 24H, and the temperature of the placing environment and the experimental environment is 22°C.

One end is fixed, the other end is compressed at the rate of 10mm/min, and the measured value when the change rate of the bending outer diameter of the pipe reaches 5%.

	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2
Minimum bending radius	35	60	95	220	400	500	
Yield value	20	34	60	160	290	360	

* The value must be greater than the minimum bending radius.

If less than the minimum bending radius occurs, the pipe may be damaged, so please refer to the yield value to ensure that the pipe is not broken or cracked.

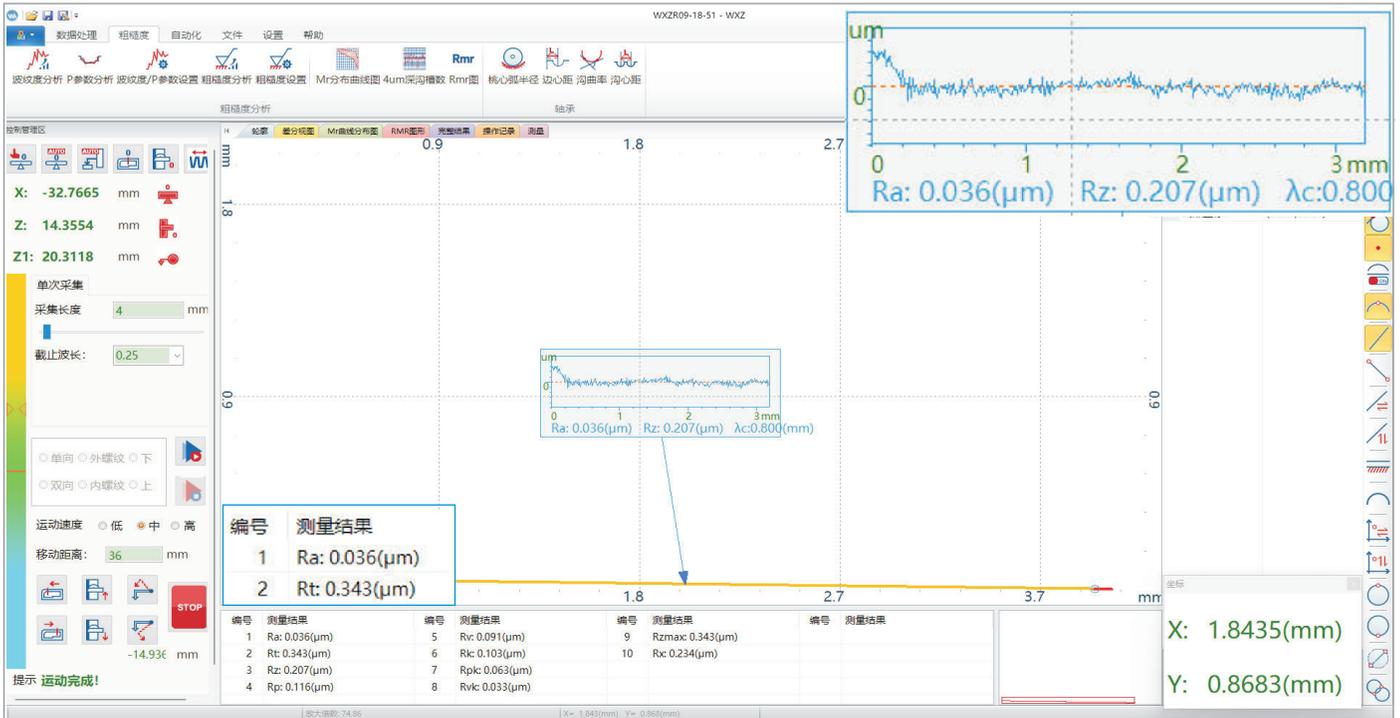
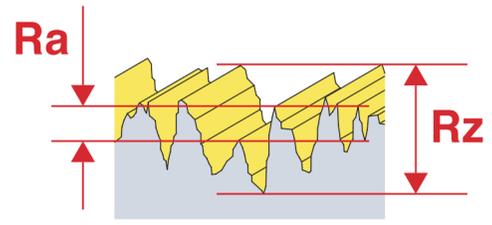
The yield value is twice the value measured when the pipe is damaged and is not a standard value to ensure safe use.

Internal surface roughness

R_a : The average height value of the microscopic roughness on the surface over the sampling length.

R_t : The sum of the assessed length, maximum contour peak height (Z_p) and maximum contour valley depth (Z_v), as determined by the 5 sampling lengths.

Surface Roughness μm	Tube	Fitting
$R_a \leq$	0.15	0.15
$R_t \leq$	0.60	0.60



* Reduce the retention of particles and liquid, reduce the flushing time before use.

By reducing the surface area of the tube and increasing the degree of crystallization, the penetration of the liquid was reduced.

Improve transparency and insulation endurance.

Reduce dissolved fluoride ions.

Improved stress rupture resistance in stress environments (e.g. sulphuric acid and hydrogen peroxide mixture, fuming sulphuric acid)

PFA Tube & Fitting Performance Data

Metal ion precipitation limit

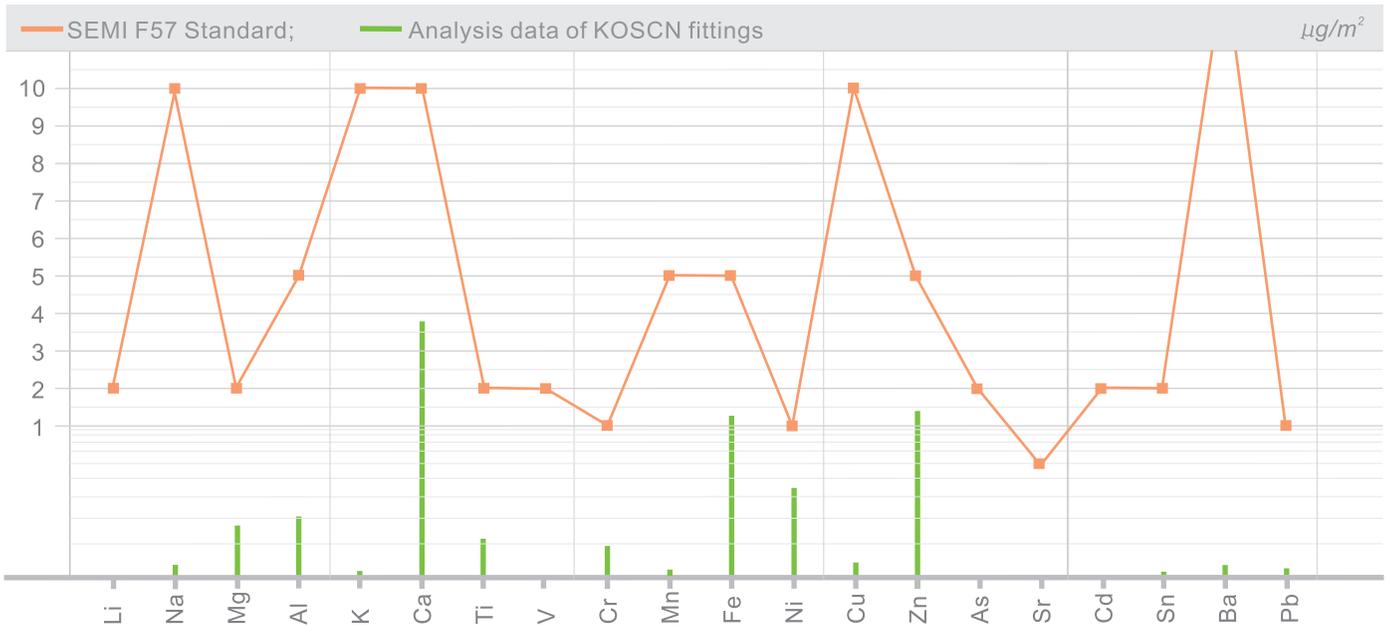
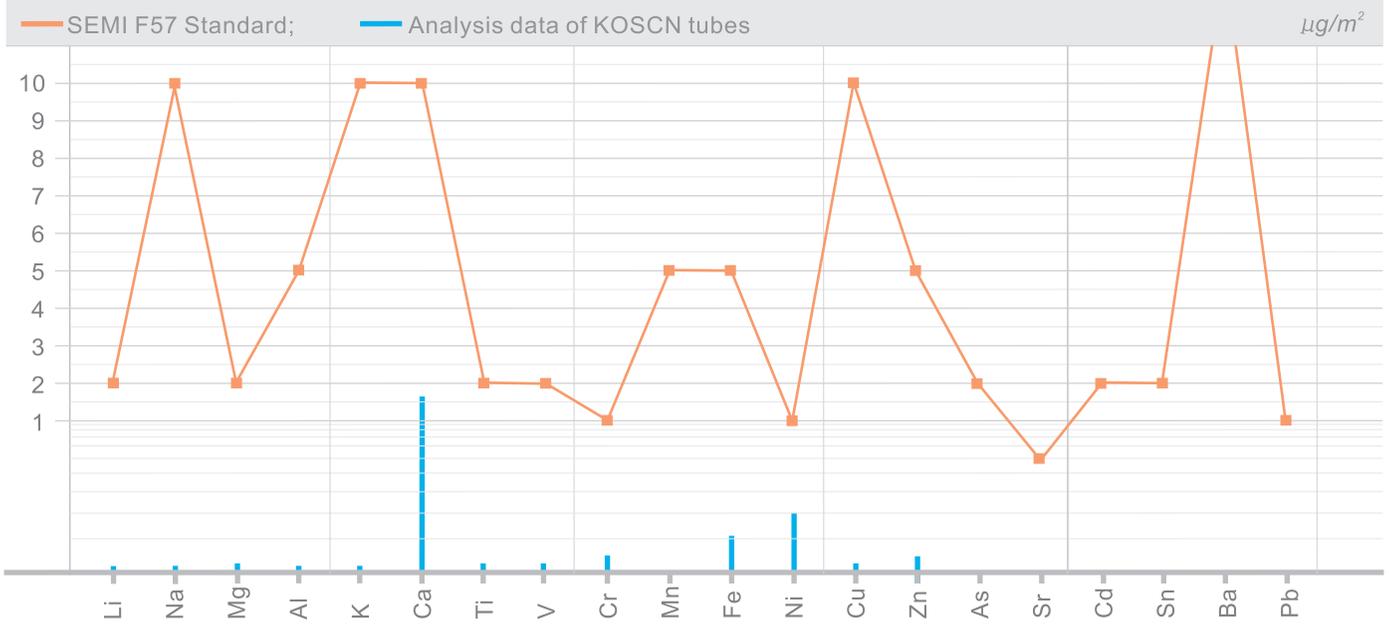
The internal surface of the tube is soaked, and the fittings are completely soaked.

The experiment was pretreated, soaked and completed in a dust-free chemistry laboratory at 22°C.

ASTMD5127-2013 standard electronic ultra-pure water with metal ions and anions =ppt and TOC<5 ppb was used for pretreatment and rinsing 15min before immersion.

By default, 5% electronic grade nitric acid of grade G5 was used to soak the liquid for 24 hours and 7 days, respectively.

KOSCN owns its own analytical equipment, the Agilent 8900 Triple Quadrupole ICP-MS.



* The original data is 24H test data of multiple copies produced in mass production.

Extract 5 groups of test reports and take the maximum value of each ion as the value in the above table.

Tube sampling is the first and last part of each batch, and fitting is the 30th mold product after the first sample.

Report pages for detailed products can be obtained from KOSCN.



PFA Tube & Fitting Performance Data

The permeability of liquid medicine

The pipe adopts the internal surface soaking method.

It was pre-treated, soaked in a dust-free chemical laboratory and the weighing experiment was completed.

Before soaking, rinse with electronic ultra-pure water according to ASTM D5127-2013 standard for 15min.

CDA is purged to ensure absolute dryness.

The permeable liquid is impregnated with G5 electronic grade METTLER TOLEDO.

Chemical Liquid	Ambient Temperature	Duration	Hyperpure (UHP)	Normal (C)
60% HNO ₃	22°C	30 day	5.98 E - 05 g/cm ²	3.44 E - 05 g/cm ²
37% HCL	22°C	30 day		

* 5 groups of test data were extracted, and the maximum weight was taken as the value in the above table.

Standard for dimensional tolerances of tubes and butt welded fittings

Inch size:

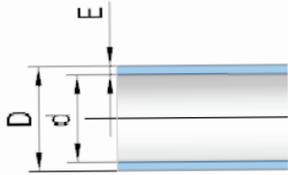
Distinguish	Nominal outside diameter	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
	Nominal inside diameter	5/32	1/4	3/8	5/8	7/8	1-1/10	1-21/64	
Outside diameter		6.35	9.53	12.70	19.05	25.40	31.80	38.10	50.80
Dimensional tolerance		±0.105	±0.105	±0.127	±0.127	±0.127	±0.203	±0.203	±0.254
Wall thickness		1.19	1.57	1.57	1.57	1.57	1.90	2.18	2.40
Dimensional tolerance		±0.105	±0.127	±0.127	±0.127	±0.127	±0.127	±0.127	±0.127
Inside diameter		3.97	6.39	9.56	15.91	22.26	28.00	33.74	46.00

Metric size:

Distinguish	Nominal outside diameter	3	4	6	8	10	12	19	25
	Nominal inside diameter	2	3	4	6	8	10	16	22
Outside diameter		3.00	4.00	6.00	8.00	10.00	12.00	19.00	25.00
Dimensional tolerance		±0.10	±0.10	±0.10	±0.10	±0.10	±0.10	±0.15	±0.20
Wall thickness		0.50	1.00	1.00	1.00	1.00	1.00	1.50	1.50
Dimensional tolerance		±0.05	±0.05	±0.10	±0.10	±0.10	±0.10	±0.15	±0.15

Tube

50M / Roll



Size (inch)	Code		D	d	E
	PFA-UHP	PFA			
1/4	090.005006	090.005006C	6.35	3.97	1.19
3/8	090.005010	090.005010C	9.50	6.39	1.57
1/2	090.005012	090.005012C	12.70	9.56	1.57
3/4	090.005019	090.005019C	19.00	15.91	1.57
1	090.005026	090.005026C	25.40	22.26	1.57
1-1/4	090.005031	090.005031C	31.80	28.00	1.90
1-1/2	090.005038	090.005038C	38.10	33.74	2.18

100M / Roll

Size (inch)	Code		D	d	E
	PFA-UHP	PFA			
1/4	090.010006	090.010006C	6.35	3.97	1.19
3/8	090.010010	090.010010C	9.50	6.39	1.57
1/2	090.010012	090.010012C	12.70	9.56	1.57
3/4	090.010019	090.010019C	19.00	15.91	1.57
1	090.010026	090.010026C	25.40	22.26	1.57
1-1/4	090.010031	090.010031C	31.80	28.00	1.90
1-1/2	090.010038	090.010038C	38.10	33.74	2.18

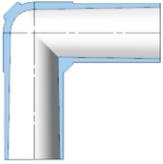
200M / Roll

Size (inch)	Code		D	d	E
	PFA-UHP	PFA			
1/4	090.020006	090.020006C	6.35	3.97	1.19
3/8	090.020010	090.020010C	9.50	6.39	1.57
1/2	090.020012	090.020012C	12.70	9.56	1.57
3/4	090.020019	090.020019C	19.00	15.91	1.57
1	090.020026	090.020026C	25.40	22.26	1.57
1-1/4	090.020031	090.020031C	31.80	28.00	1.90
1-1/2	090.020038	090.020038C	38.10	33.74	2.18

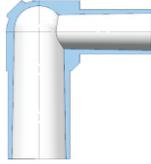
3M / Root

Size (inch)	Code		D	d	E
	PFA-UHP	PFA			
1/4	090.000306	090.000306C	6.35	3.97	1.19
3/8	090.000310	090.000310C	9.50	6.39	1.57
1/2	090.000312	090.000312C	12.70	9.56	1.57
3/4	090.000319	090.000319C	19.00	15.91	1.57
1	090.000326	090.000326C	25.40	22.26	1.57
1-1/4	090.000331	090.000331C	31.80	28.00	1.90
1-1/2	090.000338	090.000338C	38.10	33.74	2.18

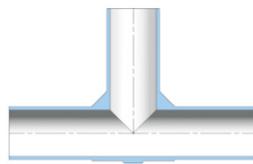
Elbow
SCE
Spigot Butt+IR



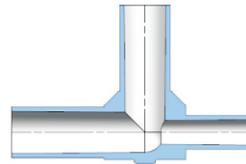
Elbow reduced
SCR
Spigot Butt+IR



Tee
STE
Spigot Butt+IR



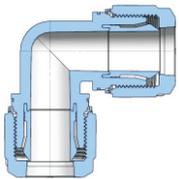
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STR
Spigot Butt+IR



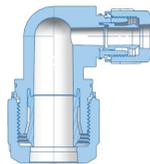
Reducer concentric
SDR
Spigot Butt+IR



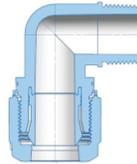
Elbow
BCE
Insert Bushing



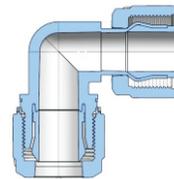
Elbow reduced
BCR
Insert Bushing



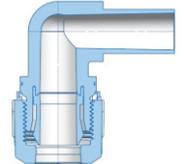
Male elbow
BMCE
Insert Bushing



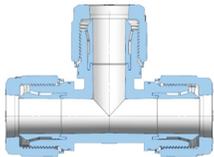
Save space Elbow
BLCE / BLCR
Insert Bushing



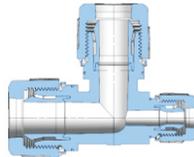
Elbow
BSCE / BSCR
Insert Bushing



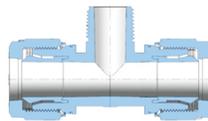
Tee
BTE
Insert Bushing



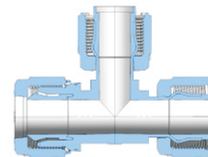
Tee reduced
BTR
Insert Bushing



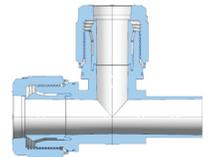
Male Tee
BMTE
Insert Bushing



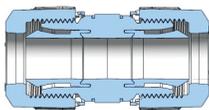
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BLTE / BLTR
Insert Bushing



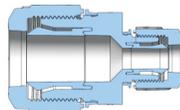
Tee
BSTE / BSTR
Insert Bushing



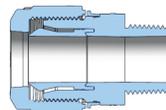
Socket
BDE
Insert Bushing



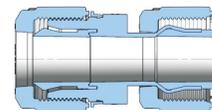
Socket reduced
BDR
Insert Bushing



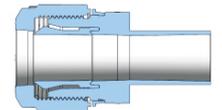
Male Socket
BMDE
Insert Bushing



Save space Socket
BLDE
Insert Bushing



Socket
BSDE
Insert Bushing



Flare link Nut
FN
Accessories



Insert bushing Nut
IN
Accessories

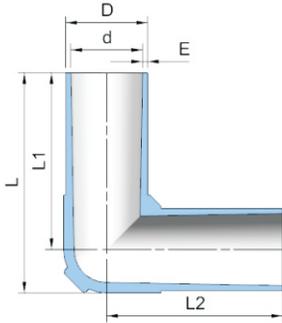


Bead
IB
Accessories





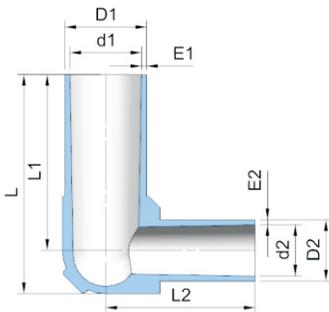
Elbow
SCE
Spigot Butt+IR



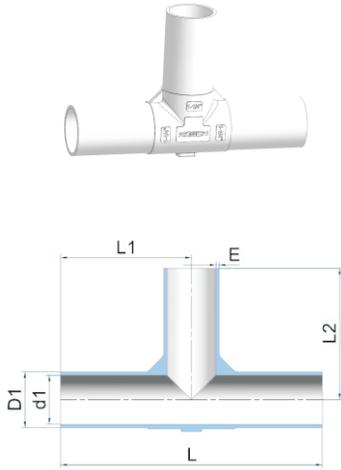
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3/8	080.031000	080.031000C	9.50	6.3	32.3	32.3	1.6	37.5
1/2	080.031200	080.031200C	12.70	9.5	35.3	35.3	1.6	42.1
3/4	080.031900	080.031900C	19.00	15.8	50.5	50.5	1.6	60.7
1	080.032600	080.032600C	25.40	22.3	54.6	54.6	1.6	68.1
1-1/4	080.033100	080.033100C	31.80	28.0	75.0	75.0	1.9	91.6
1-1/2	080.033800	080.033800C	38.10	33.7	95.2	95.2	2.2	115.0



Elbow reduced
SCR
Spigot Butt+IR

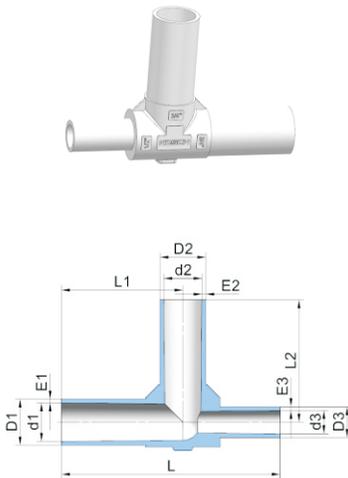


Size (inch)	Code		D1	d1	L1	E1	D2	d2	L2	E2	L
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3/8×1/4	080.031006	080.031006C	9.5	6.35	32.3	1.6	6.35	4.10	27.6	1.2	37.5
1/2×1/4	080.031206	080.031206C	12.7	9.50	35.3	1.6	6.35	4.10	30.3	1.2	42.1
1/2×3/8	080.031210	080.031210C	12.7	9.50	35.3	1.6	9.50	6.35	33.7	1.6	42.1
3/4×1/4	080.031906	080.031906C	19.0	15.80	50.5	1.6	6.35	4.10	35.5	1.2	60.7
3/4×3/8	080.031910	080.031910C	19.0	15.80	50.5	1.6	9.50	6.35	38.5	1.6	60.7
3/4×1/2	080.031912	080.031912C	19.0	15.80	50.5	1.6	12.70	9.50	40.5	1.6	60.7
1×1/4	080.032606	080.032606C	25.4	22.30	54.6	1.6	6.35	4.10	36.8	1.2	68.1
1×3/8	080.032610	080.032610C	25.4	22.30	54.6	1.6	9.50	6.35	39.8	1.6	68.1
1×1/2	080.032612	080.032612C	25.4	22.30	54.6	1.6	12.70	9.50	42.0	1.6	68.1
1×3/4	080.032619	080.032619C	25.4	22.30	54.6	1.6	19.00	15.80	54.6	1.6	68.1
1-1/4×1	080.033126	080.033126C	31.8	28.00	75.0	1.9	25.40	22.30	62.5	1.6	91.6
1-1/2×1	080.033826	080.033826C	38.1	33.70	95.2	2.2	25.40	22.30	67.7	1.6	115.0
1-1/2×1-1/4	080.033831	080.033831C	38.1	33.70	95.2	2.2	31.80	28.00	80.2	1.9	115.0



Tee
STE
Spigot Butt+IR

Size (inch)	Code		D1	d1	E	L	L1	L2
	PFA-UHP	PFA						
1/4	080.050600	080.050600C	6.35	3.97	1.19	52.50	26.25	26.25
3/8	080.051000	080.051000C	9.53	6.39	1.57	64.50	32.25	32.25
1/2	080.051200	080.051200C	12.70	9.56	1.57	70.50	35.25	35.25
3/4	080.051900	080.051900C	19.05	15.91	1.57	101.00	50.50	50.50
1	080.052600	080.052600C	25.40	22.26	1.57	107.65	53.85	53.85
1-1/4	080.053100	080.053100C	31.80	28.00	1.90	150.00	75.00	75.00
1-1/2	080.053800	080.053800C	38.10	33.74	2.18	185.00	92.50	92.50

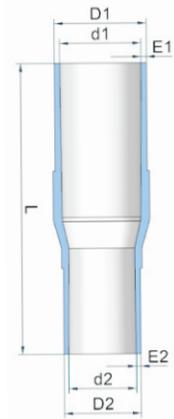


Tee reduced
STR
Spigot Butt+IR

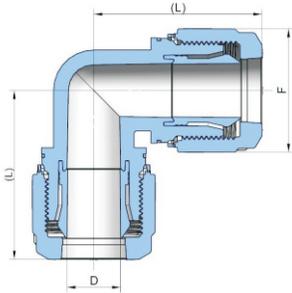
Size (inch)	Code		D1	d1	D2	d2	D3	d3	L	L1	L2
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3/8×1/4×3/8	080.051006	080.051006C	9.53	6.39	6.35	3.97	9.53	6.39	64.50	32.25	28.75
1/2×1/4×1/2	080.051206	080.051206C	12.70	9.56	6.35	3.97	12.70	9.56	70.50	35.25	27.75
1/2×3/8×1/2	080.051210	080.051210C	12.70	9.56	9.53	6.39	12.70	9.56	70.50	35.25	31.25
3/4×1/4×3/4	080.051906	080.051906C	19.05	15.91	6.35	3.97	19.05	15.91	101.00	50.50	33.00
3/4×3/4×1/4	080.0519061	080.0519061C	19.05	15.91	19.05	15.91	6.35	3.97	83.50	50.50	50.50
3/4×3/8×3/4	080.051910	080.051910C	19.05	15.91	9.53	6.39	19.05	15.91	101.00	50.50	36.50
3/4×3/4×3/8	080.0519101	080.0519101C	19.05	15.91	19.05	15.91	9.53	6.39	87.00	50.50	50.50
3/4×1/2×3/4	080.051912	080.051912C	19.05	15.91	12.70	9.56	19.05	15.91	101.00	50.50	40.50
3/4×3/4×1/2	080.0519121	080.0519121C	19.05	15.91	19.05	15.91	12.70	9.56	91.00	50.50	50.50
1×1/4×1	080.052606	080.052606C	25.40	22.26	6.35	3.97	25.40	22.26	107.65	53.82	34.35
1×3/8×1	080.052610	080.052610C	25.40	22.26	9.53	6.39	25.40	22.26	107.65	53.82	37.85
1×1/2×1	080.052612	080.052612C	25.40	22.26	12.70	9.56	25.40	22.26	107.65	53.82	41.85
1×3/4×1	080.052619	080.052619C	25.40	22.26	19.05	15.91	25.40	22.26	107.65	53.82	46.50
1-1/4×1×1-1/4	080.053126	080.053126C	25.40	22.26	25.40	22.26	25.40	22.26	150.00	75.00	65.00
1-1/2×1×1-1/2	080.053826	080.053826C	38.10	33.74	25.40	22.26	38.10	33.74	185.00	92.50	71.50



Reducer concentric
SDR
Spigot Butt+IR



Size (inch)	Code		D1	d1	E1	D2	d2	E2	L
	PFA-UHP	PFA							
3/8×1/4	080.041006	080.041006C	9.53	6.39	1.57	6.35	3.97	1.19	75.0
1/2×1/4	080.041206	080.041206C	12.70	9.56	1.57	6.35	3.97	1.19	75.0
1/2×3/8	080.041210	080.041210C	12.70	9.56	1.57	9.53	6.39	1.57	75.0
3/4×1/4	080.041906	080.041906C	19.05	15.91	1.57	6.35	3.97	1.19	85.5
3/4×3/8	080.041910	080.041910C	19.05	15.91	1.57	9.53	6.39	1.57	85.5
3/4×1/2	080.041912	080.041912C	19.05	15.91	1.57	12.70	9.56	1.57	85.0
1×1/4	080.042606	080.042606C	25.40	22.26	1.57	6.35	3.97	1.19	92.5
1×3/8	080.042610	080.042610C	25.40	22.26	1.57	9.53	6.39	1.57	92.5
1×1/2	080.042612	080.042612C	25.40	22.26	1.57	12.70	9.56	1.57	92.5
1×3/4	080.042619	080.042619C	25.40	22.26	1.57	19.05	15.91	1.57	98.0
1-1/4×1	080.043126	080.043126C	31.80	28.00	1.90	25.40	22.26	1.57	98.0
1-1/2×1	080.043826	080.043826C	38.10	33.74	2.18	25.40	22.26	1.57	120.0
1-1/2×1-1/4	080.043831	080.043831C	38.10	33.74	2.18	31.80	28.00	1.90	120.0

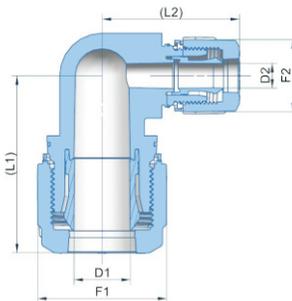


Elbow

BCE

Insert Bushing

Size (inch)	Code		L	D	F
	PFA-UHP	PFA			
1/4	080.210606	080.210606C	30.7	4.0	17.0
3/8	080.211010	080.211010C	39.6	8.0	25.0
1/2	080.211212	080.211212C	45.0	10.0	30.0
3/4	080.211919	080.211919C	57.1	16.0	40.0
1	080.212626	080.212626C	68.9	22.0	50.4



Elbow reduced

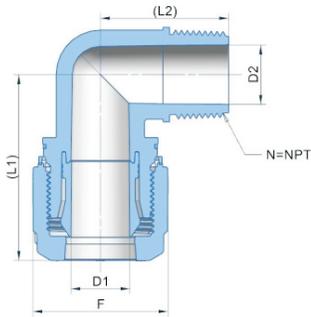
BCR

Insert Bushing

Size (inch)	Code		D1	D2	L1	L2	F1	F2
	PFA-UHP	PFA						
3/8×1/4	080.211006	080.211006C	8.0	4.0	39.6	33.60	25.0	17.0
1/2×1/4	080.211206	080.211206C	10.0	4.0	45.0	35.80	30.0	17.0
1/2×3/8	080.211210	080.211210C	10.0	8.0	45.0	41.80	30.0	25.0
3/4×1/4	080.211906	080.211906C	16.0	4.0	57.1	38.70	40.0	17.0
3/4×3/8	080.211910	080.211910C	16.0	8.0	57.1	46.70	40.0	25.0
3/4×1/2	080.211912	080.211912C	16.0	10.0	57.1	49.90	40.0	30.0
1×1/4	080.212606	080.212606C	22.0	4.0	68.9	42.55	50.4	17.0
1×3/8	080.212610	080.212610C	22.0	8.0	68.9	48.55	50.4	25.0
1×1/2	080.212612	080.212612C	22.0	10.0	68.9	53.75	50.4	30.0
1×3/4	080.212619	080.212619C	22.0	16.0	68.9	60.95	50.4	40.0



Male elbow
BMCE-NPT thread
Insert Bushing



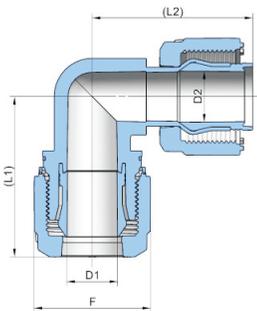
Size (inch)	Code		L1	L2	D1	D2	F
	PFA-UHP	PFA					
1/4	080.230606	080.230606C	30.7	24.50	4.0	6.0	17.0
3/8	080.231010	080.231010C	39.6	27.40	8.0	10.0	25.0
1/2	080.231212	080.231212C	45.0	33.60	10.0	12.0	30.0
3/4	080.231919	080.231919C	57.1	41.00	16.0	16.0	40.0
1	080.232626	080.232626C	68.9	47.85	22.0	22.0	50.4

BMCE-R thread
Insert Bushing

Size (inch)	Code		L1	L2	D1	D2	F
	PFA-UHP	PFA					
1/4			30.7	24.50	4.0	6.0	17.0
3/8			39.6	27.40	8.0	10.0	25.0
1/2			45.0	33.60	10.0	12.0	30.0
3/4			57.1	41.00	16.0	16.0	40.0
1			68.9	47.85	22.0	22.0	50.4



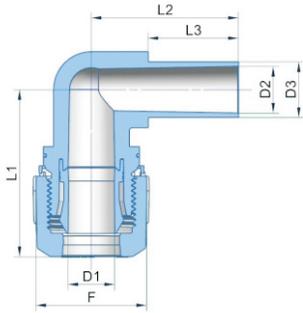
Save space Elbow
BLCE
Insert Bushing



Size (inch)	Code		L1	L2	D1	D2	F
	PFA-UHP	PFA					
1/4	080.240606	080.240606C	30.7	30.5	4.0	4.0	17.0
3/8	080.241010	080.241010C	39.6	38.3	8.0	6.4	25.0
1/2	080.241212	080.241212C	45.0	45.1	10.0	9.6	30.0
3/4	080.241919	080.241919C	57.1	57.3	16.0	15.9	40.0
1	080.242626	080.242626C	68.9	69.5	22.0	22.2	50.4

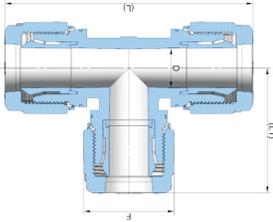


Elbow
BSCE
Insert Bushing



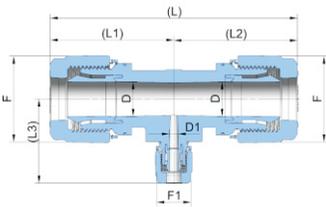
Size (inch)	Code		L1	L2	L3	D1	D2	D3	F
	PFA-UHP	PFA							
1/4	080.220606	080.220606C	30.7	27.00	17.5	4.0	3.96	6.35	17.0
3/8	080.221010	080.221010C	39.6	33.40	21.0	8.0	6.38	9.53	25.0
1/2	080.221212	080.221212C	45.0	39.60	25.0	10.0	9.58	12.70	30.0
3/4	080.221919	080.221919C	57.1	50.50	31.0	16.0	15.94	19.05	40.0
1	080.222626	080.222626C	68.9	62.35	39.0	22.0	22.26	25.40	50.4

PFA FITTING , INSERT BUSHING



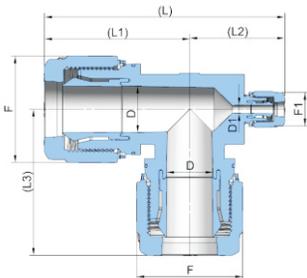
Tee
BTE
Insert Bushing

Size (inch)	Code		L	L1	D	F
	PFA-UHP	PFA				
1/4	080.110600	080.110600C	61.4	30.7	4.0	17.0
3/8	080.111000	080.111000C	79.2	39.6	8.0	25.0
1/2	080.111200	080.111200C	90.0	45.0	10.0	30.0
3/4	080.111900	080.111900C	114.2	57.1	16.0	40.0
1	080.112600	080.112600C	137.8	69.4	22.0	50.4



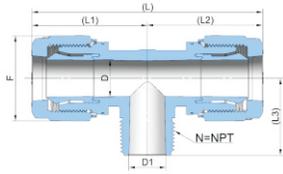
Tee reduced
BTR
Insert Bushing

Size (inch)	Code		D	D1	L	L1	L2	L3	F	F1
	PFA-UHP	PFA								
3/8×1/4×3/8	080.111006	080.111006C	8.0	4.0	79.2	39.6	39.6	31.6	24.9	17.0
1/2×1/4×1/2	080.111206	080.111206C	10.0	4.0	90.0	45.0	45.0	35.8	30.0	17.0
1/2×3/8×1/2	080.111210	080.111210C	10.0	8.0	90.0	45.0	45.0	41.8	30.0	24.9
3/4×1/4×3/4	080.111906	080.111906C	16.0	4.0	114.2	57.1	57.1	38.7	40.0	17.0
3/4×3/8×3/4	080.111910	080.111910C	16.0	8.0	114.2	57.1	57.1	44.7	40.0	24.9
3/4×1/2×3/4	080.111912	080.111912C	16.0	10.0	114.2	57.1	57.1	47.9	40.0	30.0
1×1/4×1	080.112606	080.112606C	22.0	4.0	137.8	69.4	69.4	45.0	50.4	17.0
1×3/8×1	080.112610	080.112610C	22.0	8.0	137.8	69.4	69.4	51.0	50.4	24.9
1×1/2×1	080.112612	080.112612C	22.0	10.0	137.8	69.4	69.4	54.0	50.4	30.0
1×3/4×1	080.112619	080.112619C	22.0	16.0	137.8	69.4	69.4	61.0	50.4	40.0



Tee reduced
BTR
Insert Bushing

Size (inch)	Code		D	D1	L	L1	L2	L3	F	F1
	PFA-UHP	PFA								
3/8×3/8×1/4	080.1110061	080.1110061C	8.0	4.0	71.2	39.6	31.6	39.6	24.9	17.0
1/2×1/2×1/4	080.1112061	080.1112061C	10.0	4.0	80.8	45.0	35.8	45.0	30.0	17.0
1/2×1/2×3/8	080.1112101	080.1112101C	10.0	8.0	86.8	45.0	41.8	45.0	30.0	24.9
3/4×3/4×1/4	080.1119061	080.1119061C	16.0	4.0	95.8	57.1	38.7	57.1	40.0	17.0
3/4×3/4×3/8	080.1119101	080.1119101C	16.0	8.0	101.8	57.1	44.7	57.1	40.0	24.9
3/4×3/4×1/2	080.1119121	080.1119121C	16.0	10.0	105.0	57.1	47.9	57.1	40.0	30.0
1×1×1/4	080.1126061	080.1126061C	22.0	4.0	114.4	69.4	45.0	69.4	50.4	17.0
1×1×3/8	080.1126101	080.1126101C	22.0	8.0	120.4	69.4	51.0	69.4	50.4	24.9
1×1×1/2	080.1126121	080.1126121C	22.0	10.0	123.4	69.4	54.0	69.4	50.4	30.0
1×1×3/4	080.1126191	080.1126191C	22.0	16.0	130.4	69.4	61.0	69.4	50.4	40.0



Male branch tee
 BMTE-NPT thread
 Insert Bushing

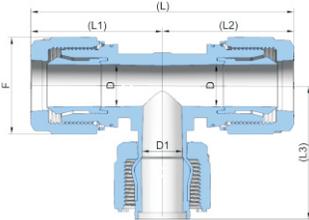
Size (inch)	Code		L	L1	L2	L3	D	D1	F
	PFA-UHP	PFA							
			Unit: mm						
1/4	080.130606	080.130606C	61.4	30.7	30.7	22.5	4.0	6.0	17.0
3/8	080.131010	080.131010C	79.2	39.6	39.6	25.4	8.0	10.0	24.9
1/2	080.131212	080.131212C	90.0	45.0	45.0	31.6	10.0	12.0	30.0
3/4	080.131919	080.131919C	114.2	57.1	57.1	38.5	16.0	16.0	40.0
1	080.132626	080.132626C	137.8	69.4	69.4	45.5	22.0	22.0	50.4

BMTE-R thread
 Insert Bushing

Size (inch)	Code		L	L1	L2	L3	D	D1	F
	PFA-UHP	PFA							
			Unit: mm						
1/4			61.4	30.7	30.7	22.5	4.0	6.0	17.0
3/8			79.2	39.6	39.6	25.4	8.0	10.0	24.9
1/2			90.0	45.0	45.0	31.6	10.0	12.0	30.0
3/4			114.2	57.1	57.1	38.5	16.0	16.0	40.0
1			137.8	69.4	69.4	45.5	22.0	22.0	50.4

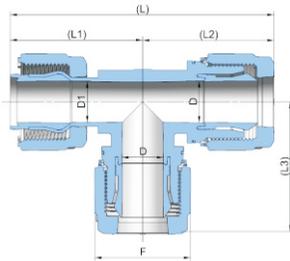


Save space Tee
BLTE
Insert Bushing



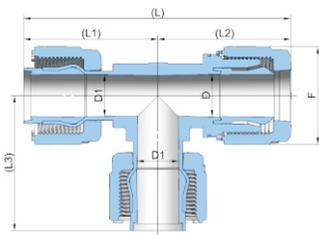
Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
1/4×1/4(T)×1/4	080.140606	080.140606C	17.0	61.4	30.7	30.7	30.5	4.0	4.0
3/8×3/8(T)×3/8	080.141010	080.141010C	24.9	79.2	39.6	39.6	38.3	8.0	6.4
1/2×1/2(T)×1/2	080.141212	080.141212C	30.0	90.0	45.0	45.0	45.1	10.0	9.5
3/4×3/4(T)×3/4	080.141919	080.141919C	40.0	114.2	57.1	57.1	57.3	16.0	15.9
1×1(T)×1	080.142626	080.142626C	50.4	138.8	69.4	69.4	69.5	22.0	22.2

BLTE
Insert Bushing



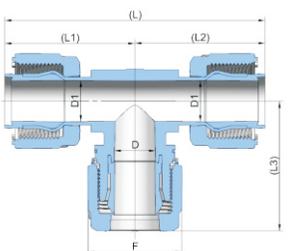
Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
1/4×1/4×1/4(T)	080.1406061	080.1406061C	17.0	61.2	30.7	30.5	30.7	4.0	4.0
3/8×3/8×3/8(T)	080.1410101	080.1410101C	24.9	77.9	39.6	38.3	39.6	8.0	6.4
1/2×1/2×1/2(T)	080.1412121	080.1412121C	30.0	90.1	45.0	45.1	45.0	10.0	9.5
3/4×3/4×3/4(T)	080.1419191	080.1419191C	40.0	114.4	57.1	57.3	57.1	16.0	15.9
1×1×1(T)	080.1426261	080.1426261C	50.4	138.9	69.4	69.5	69.4	22.0	22.2

BLTE
Insert Bushing

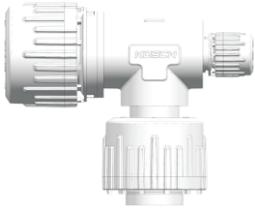


Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
1/4×1/4(T)×1/4(T)	080.1406062	080.1406062C	17.0	61.2	30.7	30.5	30.5	4.0	4.0
3/8×3/8(T)×3/8(T)	080.1410102	080.1410102C	24.9	77.9	39.6	38.3	38.3	8.0	6.4
1/2×1/2(T)×1/2(T)	080.1412122	080.1412122C	30.0	90.1	45.0	45.1	45.1	10.0	9.5
3/4×3/4(T)×3/4(T)	080.1419192	080.1419192C	40.0	114.4	57.1	57.3	57.3	16.0	15.9
1×1(T)×1(T)	080.1426262	080.1426262C	50.4	138.9	69.4	69.5	69.5	22.0	22.2

BLTE
Insert Bushing

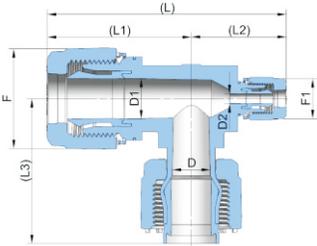


Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
1/4(T)×1/4×1/4(T)	080.1406063	080.1406063C	17.0	61.0	30.5	30.5	30.7	4.0	4.0
3/8(T)×3/8×3/8(T)	080.1410103	080.1410103C	24.9	76.6	38.3	38.3	39.6	8.0	6.4
1/2(T)×1/2×1/2(T)	080.1412123	080.1412123C	30.0	90.2	45.1	45.1	45.0	10.0	9.5
3/4(T)×3/4×3/4(T)	080.1419193	080.1419193C	40.0	114.6	57.3	57.3	57.1	16.0	15.9
1(T)×1×1(T)	080.1426263	080.1426263C	50.4	139.0	69.5	69.5	69.4	22.0	22.2



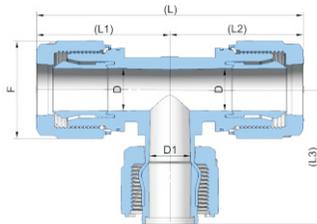
Save space Tee reduced
BLTR
Insert Bushing

Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
3/4×3/4(T)×1/4	080.141906	080.141906C	40.0	94.8	57.1	37.7	57.3	19.0	16.0



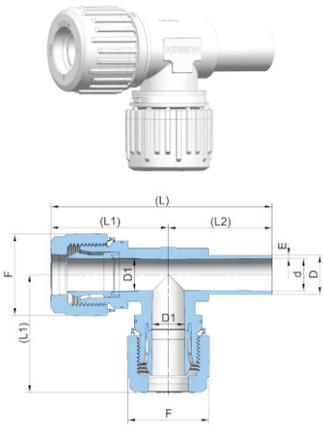
BLTR
Insert Bushing

Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
1×3/4(T)×1	080.142619	080.142619C	50.4	137.8	69.4	69.4	57.3	22.0	16.0



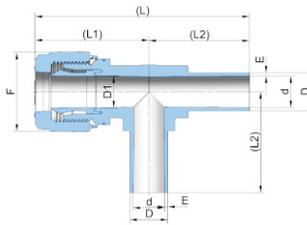
PFA FITTING , INSERT BUSHING

Tee
BSTE
Insert Bushing



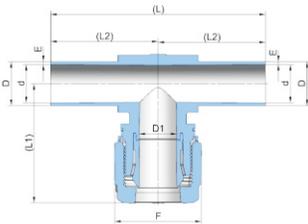
Size (inch)	Code		F	L	L1	L2	L3	D	D1	d	E
	PFA-UHP	PFA									
1/4×1/4×1/4(T)	080.1206061	080.1206061C	17.0	57.7	27.0	30.7	30.7	6.35	4.0	4.0	1.19
3/8×3/8×3/8(T)	080.1210101	080.1210101C	24.9	73.0	33.4	39.6	39.6	9.53	8.0	6.4	1.57
1/2×1/2×1/2(T)	080.1212121	080.1212121C	30.0	84.6	39.6	45.0	45.0	12.70	10.0	9.6	1.57
3/4×3/4×3/4(T)	080.1219191	080.1219191C	40.0	107.6	50.5	57.1	57.1	19.00	16.0	16.0	1.57
1×1×1(T)	080.1226261	080.1226261C	50.4	131.9	62.5	69.4	69.4	25.40	22.0	22.0	1.57

BSTE
Insert Bushing



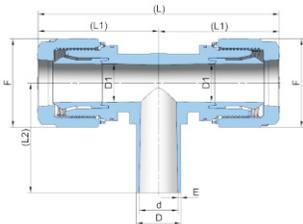
Size (inch)	Code		F	L	L1	L2	L3	D	D1	d	E
	PFA-UHP	PFA									
1/4×1/4(T)×1/4(T)	080.1206062	080.1206062C	17.0	57.7	27.0	30.7	27.0	6.35	4.0	4.0	1.19
3/8×3/8(T)×3/8(T)	080.1210102	080.1210102C	24.9	73.0	33.4	39.6	33.4	9.53	8.0	6.4	1.57
1/2×1/2(T)×1/2(T)	080.1212122	080.1212122C	30.0	84.6	39.6	45.0	39.6	12.70	10.0	9.6	1.57
3/4×3/4(T)×3/4(T)	080.1219192	080.1219192C	40.0	107.6	50.5	57.1	50.5	19.00	16.0	16.0	1.57
1×1(T)×1(T)	080.1226262	080.1226262C	50.4	131.9	62.5	69.4	62.5	25.40	22.0	22.0	1.57

BSTE
Insert Bushing



Size (inch)	Code		F	L	L1	L2	L3	D	D1	d	E
	PFA-UHP	PFA									
1/4(T)×1/4×1/4(T)	080.1206063	080.1206063C	17.0	54.0	27.0	27.0	30.7	6.35	4.0	4.0	1.19
3/8(T)×3/8×3/8(T)	080.1210103	080.1210103C	24.9	66.8	33.4	33.4	39.6	9.53	8.0	6.4	1.57
1/2(T)×1/2×1/2(T)	080.1212123	080.1212123C	30.0	79.2	39.6	39.6	45.0	12.70	10.0	9.6	1.57
3/4(T)×3/4×3/4(T)	080.1219193	080.1219193C	40.0	101.0	50.5	50.5	57.1	19.00	16.0	16.0	1.57
1(T)×1×1(T)	080.1226263	080.1226263C	40.0	101.0	50.5	50.5	57.1	19.00	16.0	16.0	1.57

BSTE
Insert Bushing

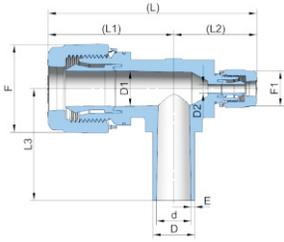


Size (inch)	Code		F	L	L1	L2	L3	D	D1	d	E
	PFA-UHP	PFA									
1/4×1/4(T)×1/4	080.120606	080.120606C	17.0	61.4	30.7	30.7	27.0	6.35	4.0	4.0	1.19
3/8×3/8(T)×3/8	080.121010	080.121010C	24.9	79.2	39.6	39.6	33.4	9.53	8.0	6.4	1.57
1/2×1/2(T)×1/2	080.121212	080.121212C	30.0	90.0	45.0	45.0	39.6	12.70	10.0	9.6	1.57
3/4×3/4(T)×3/4	080.121919	080.121919C	40.0	114.2	57.1	57.1	50.5	19.00	16.0	16.0	1.57
1×1(T)×1	080.122626	080.122626C	50.4	137.8	69.4	69.4	62.5	25.40	22.0	22.0	1.57

PFA FITTING , INSERT BUSHING



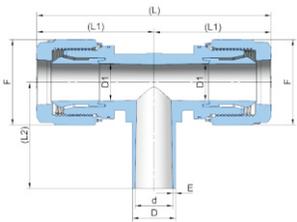
Tee reduced
BSTR
Insert Bushing



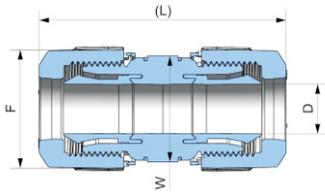
Size (inch)	Code		F	L	L1	L2	L3	D	D1	d	E
	PFA-UHP	PFA									
3/4×3/4(T)×1/4	080.121906	080.121906C	40.0	94.8	57.1	37.7	50.5	19.0	16.0	16.0	1.57



BSTR
Insert Bushing

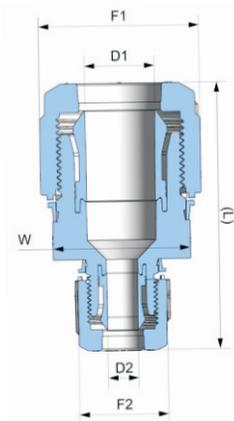
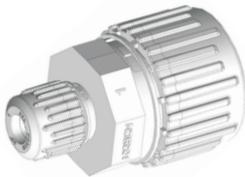


Size (inch)	Code		F	L	L1	L2	L3	D	D1	d	E
	PFA-UHP	PFA									
1×3/4(T)×1	080.122619	080.122619C	50.4	137.8	69.4	54.5	19.0	22.0	16.0	1.57	



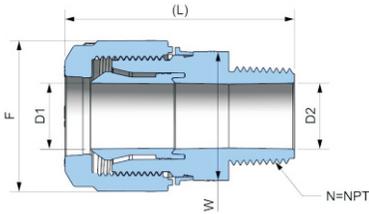
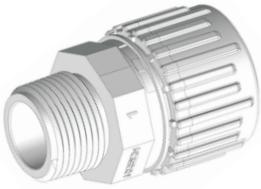
Socket
BDE
Insert Bushing

Size (inch)	Code		L	D	F
	PFA-UHP	PFA			
1/4	080.160606	080.160606C	45.4	4.0	17.0
3/8	080.161010	080.161010C	57.4	8.0	25.0
1/2	080.161212	080.161212C	63.8	10.0	30.0
3/4	080.161919	080.161919C	80.2	16.0	40.0
1	080.162626	080.162626C	98.1	22.0	50.4



Socket reduced
BDR
Insert Bushing

Size (inch)	Code		D1	D2	L	W	F1	F2
	PFA-UHP	PFA						
3/8×1/4	080.161006	080.161006C	8.0	4.0	51.40	21.0	25.00	17.0
1/2×1/4	080.161206	080.161206C	10.0	4.0	54.60	25.0	30.00	17.0
1/2×3/8	080.161210	080.161210C	10.0	8.0	60.60	25.0	30.00	25.0
3/4×1/4	080.161906	080.161906C	16.0	4.0	64.30	34.0	40.00	17.0
3/4×3/8	080.161910	080.161910C	16.0	8.0	70.30	34.0	40.00	25.0
3/4×1/2	080.161912	080.161912C	16.0	10.0	73.50	34.0	40.00	30.0
1×1/4	080.162606	080.162606C	22.0	4.0	74.25	43.0	50.42	17.0
1×3/8	080.162610	080.162610C	22.0	8.0	80.25	43.0	50.42	25.0
1×1/2	080.162612	080.162612C	22.0	10.0	83.45	43.0	50.42	30.0
1×3/4	080.162619	080.162619C	22.0	16.0	90.15	43.0	50.42	40.0

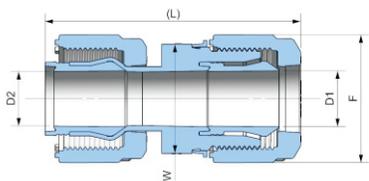
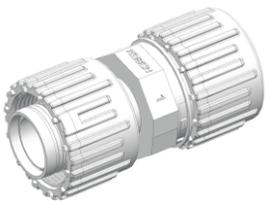


Male connector
BMDE-NPT
Insert Bushing

Size (inch)	Code		L	W	D1	D2	F
	PFA-UHP	PFA					
1/4	080.180606	080.180606C	39.2	16.0	4.0	6.0	17.0
3/8	080.181010	080.181010C	45.2	21.0	8.0	10.0	25.0
1/2	080.181212	080.181212C	52.4	25.0	10.0	12.0	30.0
3/4	080.181919	080.181919C	64.1	34.0	16.0	16.0	40.0
1	080.182626	080.182626C	77.0	43.0	22.0	22.0	50.4

BMDE-R
Insert Bushing

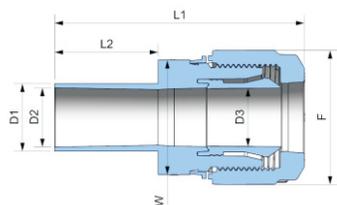
Size (inch)	Code		L	W	D1	D2	F
	PFA-UHP	PFA					
1/4			39.2	16.0	4.0	6.0	17.0
3/8			45.2	21.0	8.0	10.0	25.0
1/2			52.4	25.0	10.0	12.0	30.0
3/4			64.1	34.0	16.0	16.0	40.0
1			77.0	43.0	22.0	22.0	50.4



Save space Socket
BLDE
Insert Bushing

Size (inch)	Code		L	W	D1	D2	F
	PFA-UHP	PFA					
1/4	080.190606	080.190606C	47.2	16.0	4.0	4.0	17.0
3/8	080.191010	080.191010C	58.1	21.0	8.0	6.4	25.0
1/2	080.191212	080.191212C	65.9	25.0	10.0	9.6	30.0
3/4	080.191919	080.191919C	82.9	34.0	16.0	15.9	40.0
1	080.192626	080.192626C	101.2	43.0	22.0	22.2	50.4

PFA FITTING , INSERT BUSHING



Socket
BSDE
Insert Bushing

Size (inch)	Code		L1	L2	W	D1	D2	D3	F
	PFA-UHP	PFA							
1/4	080.170606	080.170606C	43.70	17.5	16.0	6.35	3.96	4.0	17.0
3/8	080.171010	080.171010C	53.20	21.0	21.0	9.53	6.38	8.0	25.0
1/2	080.171212	080.171212C	60.40	25.0	25.0	12.70	9.58	10.0	30.0
3/4	080.171919	080.171919C	76.10	31.0	34.0	19.05	15.94	16.0	40.0
1	080.172626	080.172626C	94.05	39.0	43.0	25.40	22.26	22.0	50.4

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