

PFA

软管和接头



KOSCN PFA Tube Fitting 软管和接头采用国外知名厂家的电子级 PFA 原料生产，挤出管道在千级无尘室生产和包装，注塑接头在万级无尘室生产，经化学和超纯水清洗后在百级无尘室封装。KOSCN 拥有自主化学和物理分析实验室，配置有美国 Agilent ICP-MAS 金属离子检测设备和日本 RION 测试 Particle 等设备，满足芯片高端制程品质管控要求。

方便操作和维护

- * Spigot Butt+IR 对焊型为长口设计，方便焊接装夹和修口
- * Insert Bushing 入珠型配置有专用工具方便安装
- * UNF 标准的螺纹，适配和互换性更高
- * 安装标准符合 SEMI F65-1101

高安全性能

- * 符合 FDA 177-1520 / 177-1550 溶出试验要求
- * 产品符合 SEMI F057 标准
- * 入珠接头具有独特的三道预压密封，可有效防止泄漏
- * 入珠接头具有高精密锁紧指引提示
- * 经过高温和极限爆破型式检验
- * 经过电镜对冷扩后的成型件分子结构分析

高灵活性

- * 接液材质 PFA、PTFE
- * 螺母材质 PFA、PVDF
- * 接口形式 Spigot Butt+IR、Insert Bushing
- * 材质选择 普通级、UHP电子级

性能特点

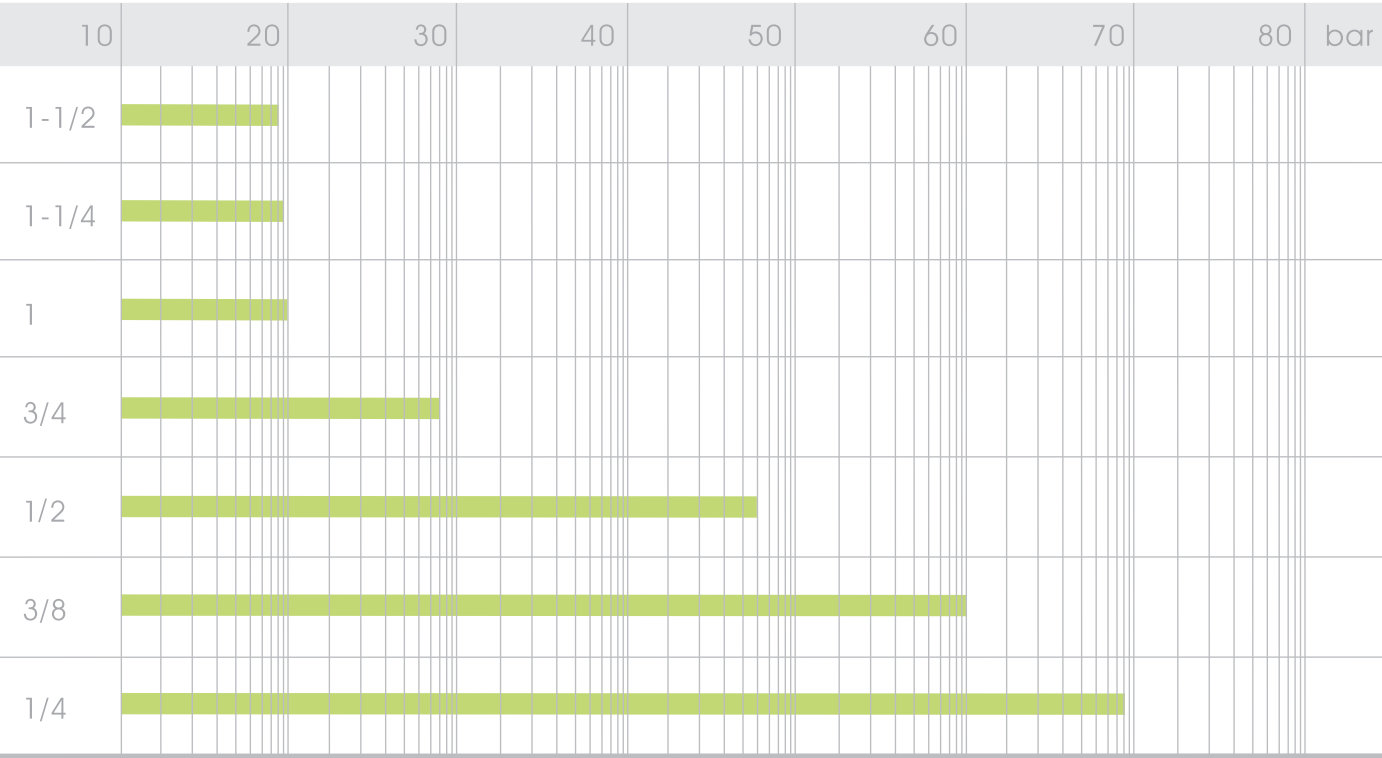
- * 使用压力 0...7 bar
- * 耐受温度 -40...260°C (需对应不同产品的特性选用)
- * 表面粗糙度 $Ra \leq 0.15 \mu m$

应用

- * 半导体
- * 光伏
- * 显示面板
- * 集成电路
- * 生物制药
- * 医疗
- * 新材料

耐压力破坏标准

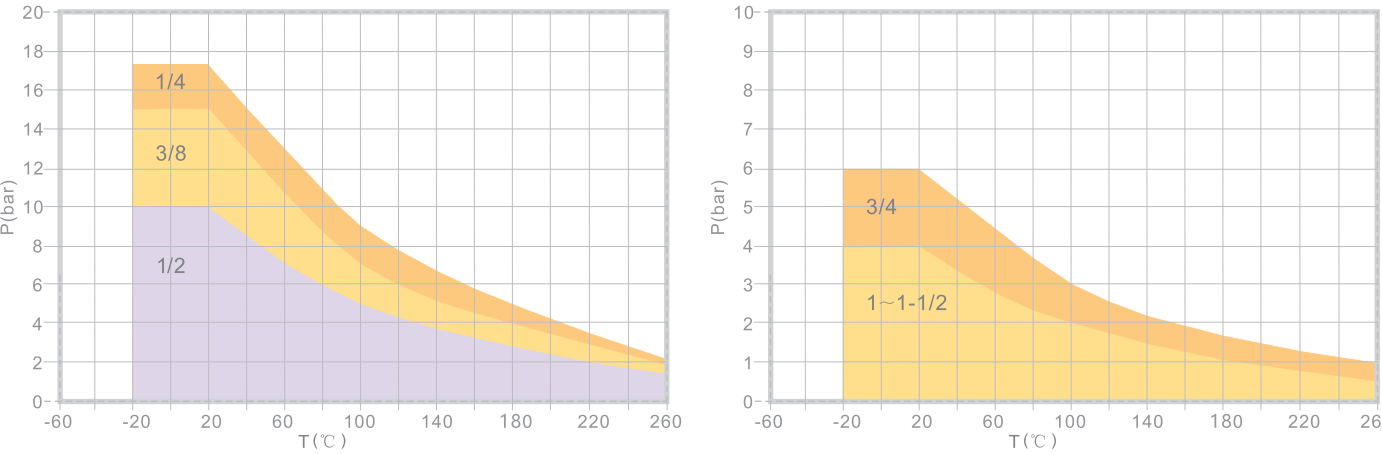
制品挤出生产时间大于24小时, 放置环境和实验环境温度为22℃。
以 22℃ 清水对 150mm 长度制品加压, 保持耐受额定压力 1 小时后, 以 2 bar/5s 速度增压, 直至PFA 管道破裂的压力值大于如下标准。



* 由KOSCN制作的红外焊接口满足如上相同标准, 包含管道和管道焊接、管道和管件焊接。

最高使用压力和温度

实际应用中的压力和温度, 应当低于管子和接头规格所允许的额定数值。



* 管路系统需要执行有效固定, 避免在摇晃和松动的情况下使用。
长期在高温或冷热交替中使用, 需要定期检查和维修, 防止因材质变化及寿命导致的泄漏。

最小弯曲半径和屈服值

制品挤出生产时间大于24小时, 放置环境和实验环境温度为22℃。

一端固定, 另一端以10cm/min 速率进行压缩, 管子弯曲外径变化率达5%时的测定值。

	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2
最小弯曲半径	35	60	95	220	400	500	
屈服值	20	34	60	160	290	360	

* 请大于最小弯曲半径数值使用。

如果发生小于最小弯曲半径时, 管子可能会损坏, 因此请参考屈服值, 确认管子没有发生折断和破裂等情况。

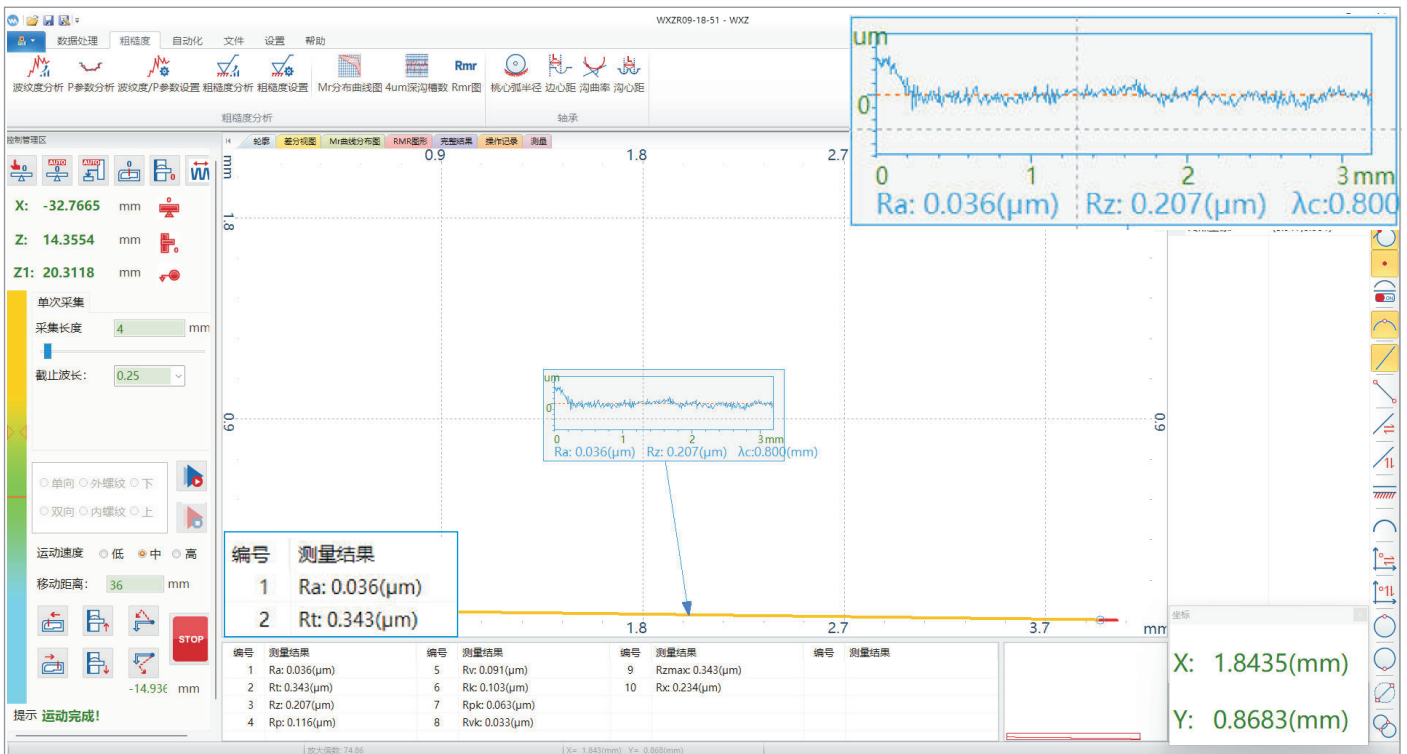
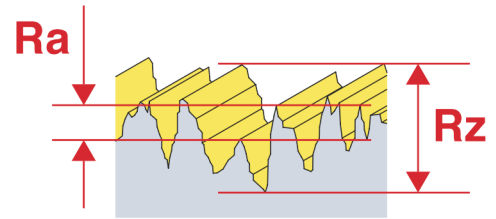
屈服值是测定的管子发生损坏时的两倍数值, 不是确保安全使用的标准值。

内表面粗糙度标准

Ra :在取样长度内, 表面上微观不平度的平均高度数值。

Rt :由5个取样长度确定的评定长度, 最大轮廓峰高(Zp)和最大轮廓谷深(Zv)之和数值。

Surface Roughness μm	管道 (挤出型)	管件 (注射型)
$Ra \leq$	0.15	0.15
$Rt \leq$	0.60	0.60



* 减少颗粒及药液滞留

减少使用前的冲洗时间

通过减少管内表面积及提高结晶化程度降低药液浸透量

提高透明性、提高绝缘耐力

减少溶出氟离子

提高应力环境下的耐应力破裂性(例如硫酸与过氧化氢的混合物、发烟硫酸)

金属离子析出限值标准

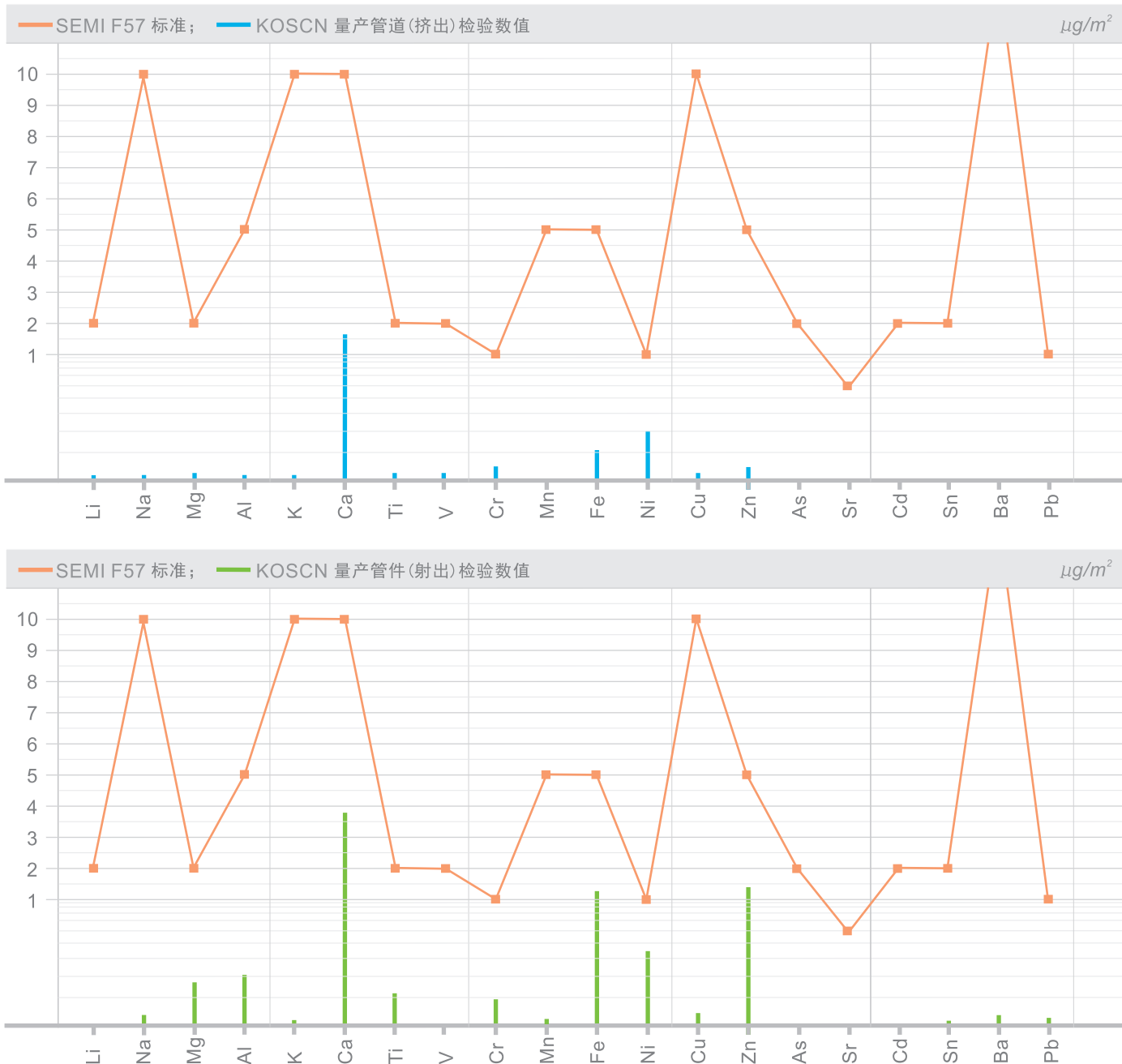
管道采用内表面浸泡法，管件采用完全浸泡法。

在 22℃ 环境温度的百级无尘化学实验室预处理、浸泡并完成实验。

采用金属离子和阴离子 ≤ 1 ppt, TOC < 5 ppb 的 ASTM D5127-2013 标准电子超纯水，进行药液浸泡前的 15min 预处理冲洗。

浸泡析出分析的药液默认采用 G5 级 5% 电子级硝酸，浸泡 24H 和 7 天分别取样测试。

检测设备 Agilent 8900 Triple Quadrupole ICP-MS，自有。



* 原始数据为量产多样本的24H 测试数据，

抽取 5 组测试报告，取数每个离子的最大值作为上表数值。

管道取样为每批次首尾件，管件为首样后第30模产品。

详细产品的报告页请向 KOSCN 索取。



药液渗透性

管道采用内表面浸泡法。

在百级无尘化学实验室预处理、内浸泡并完成称重实验。

用 ASTM D5127-2013 标准的电子超纯水，进行药液浸泡前的15min 预处理冲洗。

CDA进行吹扫，保证其绝对干燥。

浸泡渗透性的药液采用 G5 电子级，检测设备 METTLER TOLEDO。

Chemical Liquid	环境温度	时长	超纯级（UHP）	普通级（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		

* 抽取5组测试数据，取数最大增重作为上表数值。

管道和对焊管件尺寸公差标准

英标尺寸：

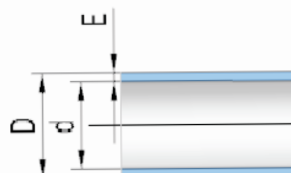
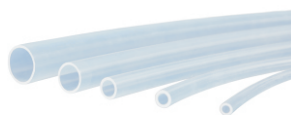
区分	外径标称	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
	内径标称	5/32	1/4	3/8	5/8	7/8	1-1/10	1-21/64	
外径		6.35	9.53	12.70	19.05	25.40	31.80	38.10	50.80
公差		±0.105	±0.105	±0.127	±0.127	±0.127	±0.203	±0.203	±0.254
壁厚		1.19	1.57	1.57	1.57	1.57	1.90	2.18	2.40
公差		±0.105	±0.127	±0.127	±0.127	±0.127	±0.127	±0.127	±0.127
内径		3.97	6.39	9.56	15.91	22.26	28.00	33.74	46.00

公制尺寸：

区分	外径标称	3	4	6	8	10	12	19	25
	内径标称	2	3	4	6	8	10	16	22
外径		3.00	4.00	6.00	8.00	10.00	12.00	19.00	25.00
公差		±0.10	±0.10	±0.10	±0.10	±0.10	±0.10	±0.15	±0.20
壁厚		0.50	1.00	1.00	1.00	1.00	1.00	1.50	1.50
公差		±0.05	±0.05	±0.10	±0.10	±0.10	±0.10	±0.15	±0.15

软管 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

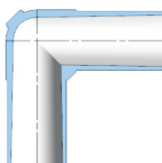
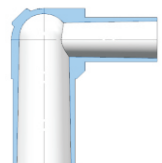
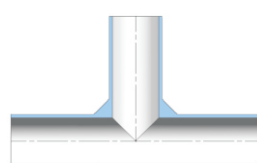
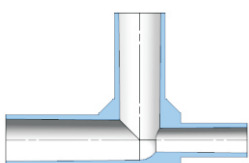
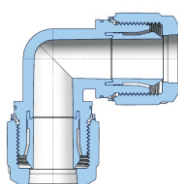
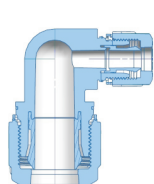
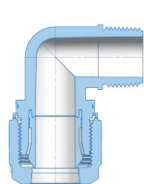
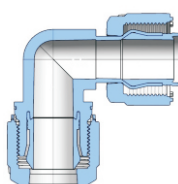
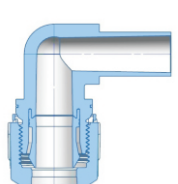
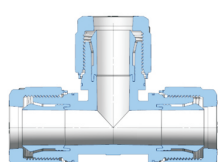
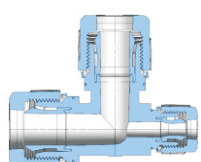
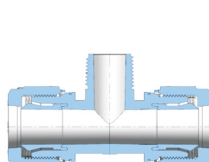
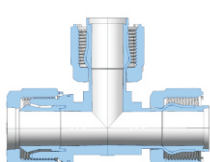
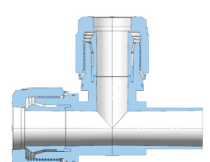
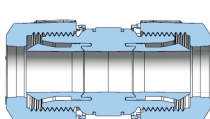
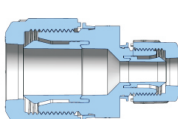
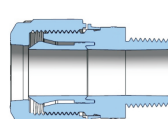
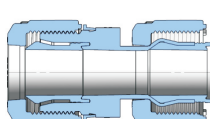
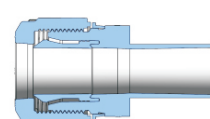
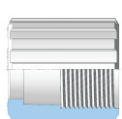
Size (inch)	Code		D	d	E
	PFA-UHP	PFA			
1/4	090.010006	090.010006C	6.35	3.97	1.19
3/8	090.010010	090.010010C	9.50	6.39	1.57
1/2	090.010012	090.010012C	12.70	9.56	1.57
3/4	090.010019	090.010019C	19.00	15.91	1.57
1	090.010026	090.010026C	25.40	22.26	1.57
1-1/4	090.010031	090.010031C	31.80	28.00	1.90
1-1/2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

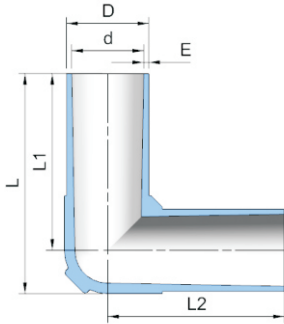
等径弯头 Elbow SCE Spigot Butt+IR 	异径弯头 Elbow reduced SCR Spigot Butt+IR 	等径三通 Tee STE Spigot Butt+IR 	异径三通 Tee reduced STR Spigot Butt+IR 	同心变径 Reducer concentric SDR Spigot Butt+IR 
等径弯头 Elbow BCE Insert Bushing 	异径弯头 Elbow reduced BCR Insert Bushing 	外牙弯头 Male elbow BMCE Insert Bushing 	省空间等径/异径弯头 Save space Elbow BLCE / BLCR Insert Bushing 	直管等径/异径弯头 Elbow BSCE / BSCR Insert Bushing 
等径三通 Tee BTE Insert Bushing 	异径三通 Tee reduced BTR Insert Bushing 	外牙三通 Male Tee BMTE Insert Bushing 	省空间等径/异径三通 Save space Tee BLTE / BLTR Insert Bushing 	直管等径/异径三通 Tee BSTE / BSTR Insert Bushing 
等径直通 Socket BDE Insert Bushing 	异径直通 Socket reduced BDR Insert Bushing 	外牙直通 Male Socket BMDE Insert Bushing 	省空间直通 Save space Socket BLDE Insert Bushing 	直管直通 Socket BSDE Insert Bushing 
扩口螺母 Flare link Nut FN Accessories 	入珠螺母 Insert bushing Nut IN Accessories 	内珠 Bead IB Accessories 		



等径弯头 Elbow

SCE

对焊 Spigot Butt+IR



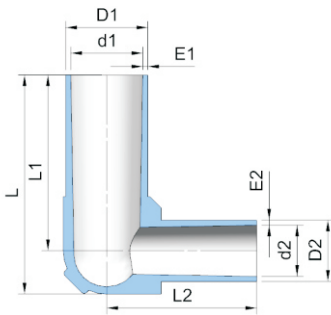
Size (inch)	Code		D	d	L1	L2	E	L
	PFA-UHP	PFA						
Unit: mm								
1/4	080.030600	080.030600C	6.35	4.1	26.2	26.2	1.2	29.9
3/8	080.031000	080.031000C	9.50	6.3	32.3	32.3	1.6	37.5
1/2	080.031200	080.031200C	12.70	9.5	35.3	35.3	1.6	42.1
3/4	080.031900	080.031900C	19.00	15.8	50.5	50.5	1.6	60.7
1	080.032600	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



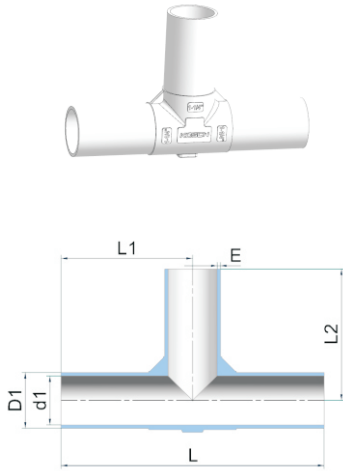
异径弯头 Elbow reduced

SCR

对焊 Spigot Butt+IR



Size (inch)	Code		D1	d1	L1	E1	D2	d2	L2	E2	L
	PFA-UHP	PFA									
	Unit: mm										
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

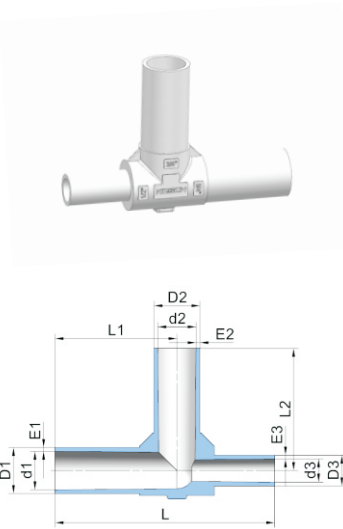


等径三通 Tee

STE

对焊 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



异径三通 Tee reduced

STR

对焊 Spigot Butt+IR

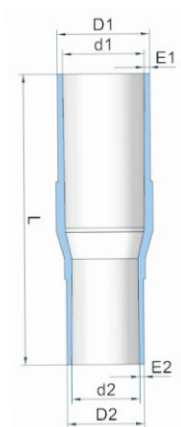
Size (inch)	Code		D1	d1	D2	d2	D3	d3	L	L1	L2
	PFA-UHP	PFA	Unit: mm								
3/8×1/4×3/8	080.051006	080.051006C	9.53	6.39	6.35	3.97	9.53	6.39	64.50	32.25	28.75
1/2×1/4×1/2	080.051206	080.051206C	12.70	9.56	6.35	3.97	12.70	9.56	70.50	35.25	27.75
1/2×3/8×1/2	080.051210	080.051210C	12.70	9.56	9.53	6.39	12.70	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



同心变径 Reducer concentric

SDR

对焊 Spigot Butt+IR



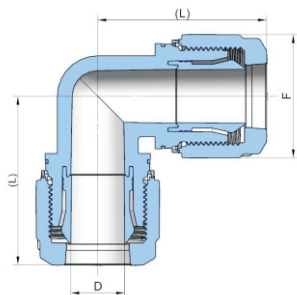
Size (inch)	Code		D1	d1	E1	D2	d2	E2	L
	PFA-UHP	PFA							
	Unit: mm								
3/8×1/4	080.041006	080.041006C	9.53	6.39	1.57	6.35	3.97	1.19	75.0
1/2×1/4	080.041206	080.041206C	12.70	9.56	1.57	6.35	3.97	1.19	75.0
1/2×3/8	080.041210	080.041210C	12.70	9.56	1.57	9.53	6.39	1.57	75.0
3/4×1/4	080.041906	080.041906C	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



等径弯头 Elbow

BCE

入珠 Insert Bushing



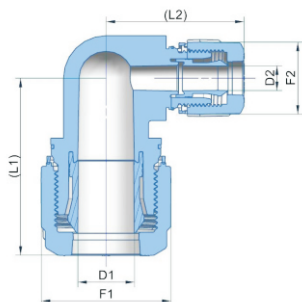
Size (inch)	Code		L	D	F
	PFA-UHP	PFA			
1/4	080.210606	080.210606C	30.7	4.0	17.0
3/8	080.211010	080.211010C	39.6	8.0	25.0
1/2	080.211212	080.211212C	45.0	10.0	30.0
3/4	080.211919	080.211919C	57.1	16.0	40.0
1	080.212626	080.212626C	68.9	22.0	50.4



异径弯头 Elbow reduced

BCR

入珠 Insert Bushing



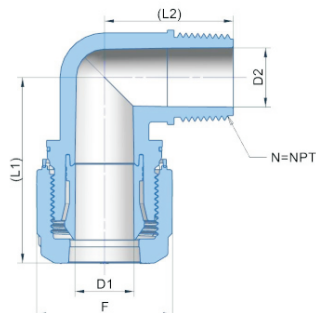
Size (inch)	Code		D1	D2	L1	L2	F1	F2
	PFA-UHP	PFA						
3/8×1/4	080.211006	080.211006C	8.0	4.0	39.6	33.60	25.0	17.0
1/2×1/4	080.211206	080.211206C	10.0	4.0	45.0	35.80	30.0	17.0
1/2×3/8	080.211210	080.211210C	10.0	8.0	45.0	41.80	30.0	25.0
3/4×1/4	080.211906	080.211906C	16.0	4.0	57.1	38.70	40.0	17.0
3/4×3/8	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



外牙弯头 Male elbow

BMCE-NPT 螺纹

入珠 Insert Bushing



Size (inch)	Code		L1	L2	D1	D2	F
	PFA-UHP	PFA					
	Unit: mm						
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 螺纹

入珠 Insert Bushing

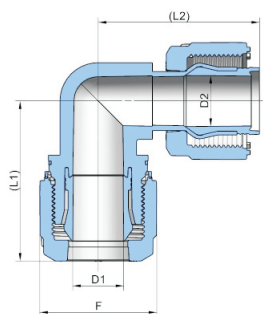
Size (inch)	Code		L1	L2	D1	D2	F
	PFA-UHP	PFA					
1/4			30.7	24.50	4.0	6.0	17.0
3/8			39.6	27.40	8.0	10.0	25.0
1/2			45.0	33.60	10.0	12.0	30.0
3/4			57.1	41.00	16.0	16.0	40.0
1			68.9	47.85	22.0	22.0	50.4



省空间弯头 Save space Elbow

BLCE

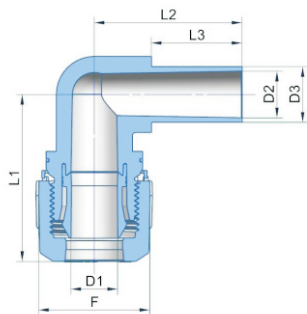
入珠 Insert Bushing



Size (inch)	Code		L1	L2	D1	D2	F
	PFA-UHP	PFA					
	Unit: mm						
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



直管弯头 Elbow
BSCE
入珠 Insert Bushing



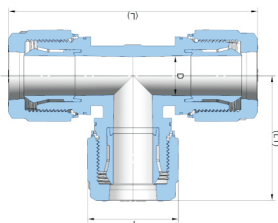
Size (inch)	Code		L1	L2	L3	D1	D2	D3	F
	PFA-UHP	PFA							
	Unit: mm								
1/4	080.220606	080.220606C	30.7	27.00	17.5	4.0	3.96	6.35	17.0
3/8	080.221010	080.221010C	39.6	33.40	21.0	8.0	6.38	9.53	25.0
1/2	080.221212	080.221212C	45.0	39.60	25.0	10.0	9.58	12.70	30.0
3/4	080.221919	080.221919C	57.1	50.50	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



等径三通 Tee

BTE

入珠 Insert Bushing

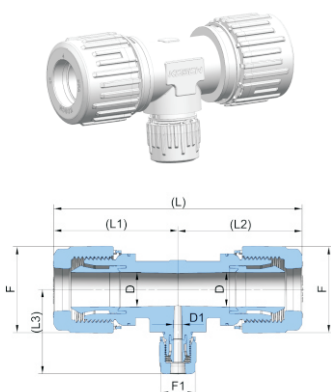


Size (inch)	Code		L	L1	D	F
	PFA-UHP	PFA				
	Unit: mm					
1/4	080.110600	080.110600C	61.4	30.7	4.0	17.0
3/8	080.111000	080.111000C	79.2	39.6	8.0	25.0
1/2	080.111200	080.111200C	90.0	45.0	10.0	30.0
3/4	080.111900	080.111900C	114.2	57.1	16.0	40.0
1	080.112600	080.112600C	137.8	69.4	22.0	50.4

异径三通 Tee reduced

BTR

入珠 Insert Bushing

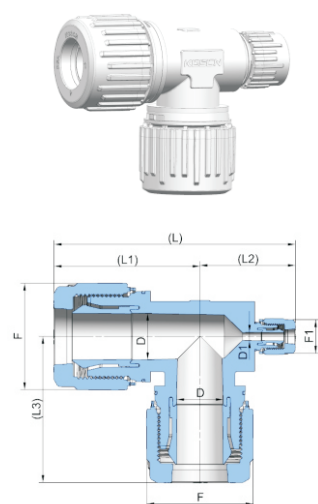


Size (inch)	Code		D	D1	L	L1	L2	L3	F	F1
	PFA-UHP	PFA								
	Unit: mm									
3/8×1/4×3/8	080.111006	080.111006C	8.0	4.0	79.2	39.6	39.6	31.6	24.9	17.0
1/2×1/4×1/2	080.111206	080.111206C	10.0	4.0	90.0	45.0	45.0	35.8	30.0	17.0
1/2×3/8×1/2	080.111210	080.111210C	10.0	8.0	90.0	45.0	45.0	41.8	30.0	24.9
3/4×1/4×3/4	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

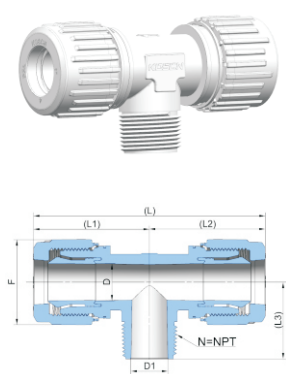
异径三通 Tee reduced

BTR

入珠 Insert Bushing



Size (inch)	Code		D	D1	L	L1	L2	L3	F	F1
	PFA-UHP	PFA								
Unit: mm										
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



外牙三通 Male branch tee

BMTE-NPT 螺纹

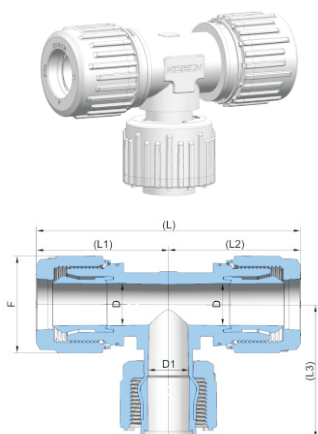
入珠 Insert Bushing

Size (inch)	Code		L	L1	L2	L3	D	D1	F
	PFA-UHP	PFA							
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 螺纹

入珠 Insert Bushing

Size (inch)	Code		L	L1	L2	L3	D	D1	F
	PFA-UHP	PFA							
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

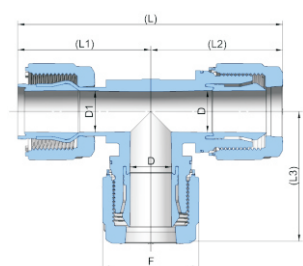


省空间等径三通 Save space Tee

BLTE 中间单口省空间

入珠 Insert Bushing

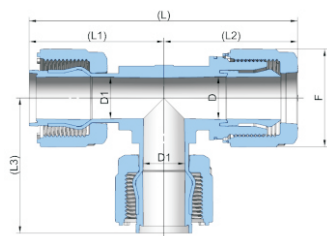
Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
					Unit: mm				
1/4×1/4(T)×1/4	080.140606	080.140606C	17.0	61.4	30.7	30.7	30.5	4.0	4.0
3/8×3/8(T)×3/8	080.141010	080.141010C	24.9	79.2	39.6	39.6	38.3	8.0	6.4
1/2×1/2(T)×1/2	080.141212	080.141212C	30.0	90.0	45.0	45.0	45.1	10.0	9.5
3/4×3/4(T)×3/4	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 侧位单口省空间

入珠 Insert Bushing

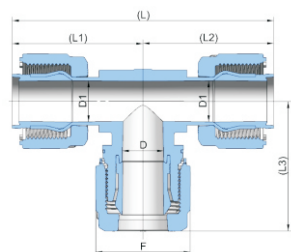
Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
	Unit: mm								
1/4×1/4×1/4(T)	080.1406061	080.1406061C	17.0	61.2	30.7	30.5	30.7	4.0	4.0
3/8×3/8×3/8(T)	080.1410101	080.1410101C	24.9	77.9	39.6	38.3	39.6	8.0	6.4
1/2×1/2×1/2(T)	080.1412121	080.1412121C	30.0	90.1	45.0	45.1	45.0	10.0	9.5
3/4×3/4×3/4(T)	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 中间和侧位双口省空间

入珠 Insert Bushing

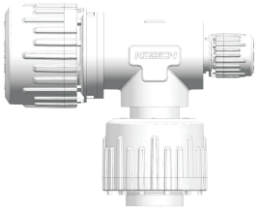
Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
Unit: mm									
1/4×1/4(T)×1/4(T)	080.1406062	080.1406062C	17.0	61.2	30.7	30.5	30.5	4.0	4.0
3/8×3/8(T)×3/8(T)	080.1410102	080.1410102C	24.9	77.9	39.6	38.3	38.3	8.0	6.4
1/2×1/2(T)×1/2(T)	080.1412122	080.1412122C	30.0	90.1	45.0	45.1	45.1	10.0	9.5
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 左右侧位双口省空间

入珠 Insert Bushing

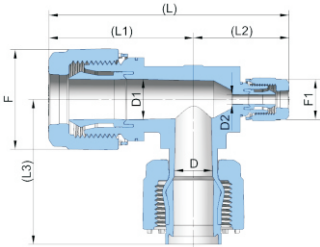
Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
Unit: mm									
1/4(T)×1/4×1/4(T)	080.1406063	080.1406063C	17.0	61.0	30.5	30.5	30.7	4.0	4.0
3/8(T)×3/8×3/8(T)	080.1410103	080.1410103C	24.9	76.6	38.3	38.3	39.6	8.0	6.4
1/2(T)×1/2×1/2(T)	080.1412123	080.1412123C	30.0	90.2	45.1	45.1	45.0	10.0	9.5
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



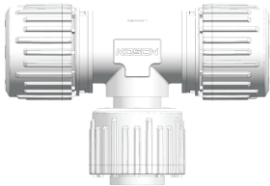
省空间异径三通 Save space Tee reduced

BLTR 中间单口省空间/侧位异径

入珠 Insert Bushing

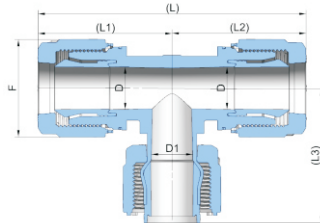


Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
3/4×3/4(T)×1/4	080.141906	080.141906C	40.0	94.8	57.1	37.7	57.3	19.0	16.0

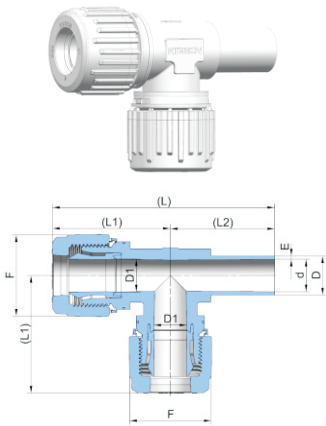


BLTR 中间单口异径省空间

入珠 Insert Bushing

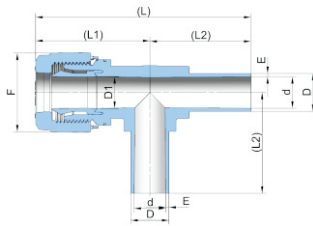


Size (inch)	Code		F	L	L1	L2	L3	D	D1
	PFA-UHP	PFA							
1×3/4(T)×1	080.142619	080.142619C	50.4	137.8	69.4	69.4	57.3	22.0	16.0



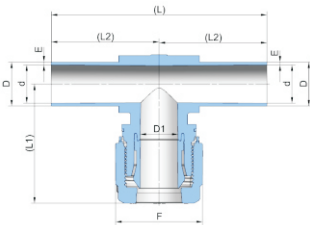
直管等径三通 Tee
BSTE 侧位单口直管
入珠 Insert Bushing

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



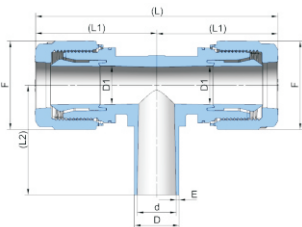
BSTE 侧位和中间双口直管
入珠 Insert Bushing

Size (inch)	Code		F	L	L1	L2	L3	D	D1	d	E
	PFA-UHP	PFA									
Unit: mm											
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



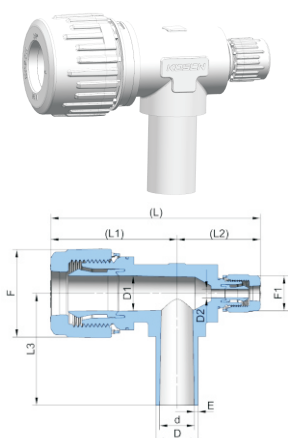
BSTE 左右侧双口直管
入珠 Insert Bushing

Size (inch)	Code		F	L	L1	L2	L3	D	D1	d	E
	PFA-UHP	PFA									
Unit: mm											
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



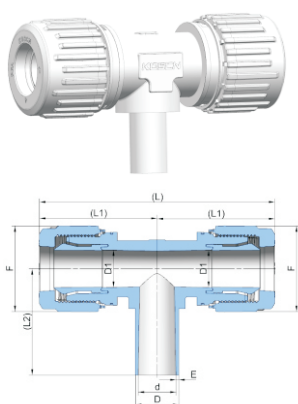
BSTE 中间单口直管
入珠 Insert Bushing

Size (Inch)	Code		F	L	L1	L2	L3	D	D1	d	E
	PFA-UHP	PFA									
	Unit: mm										
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



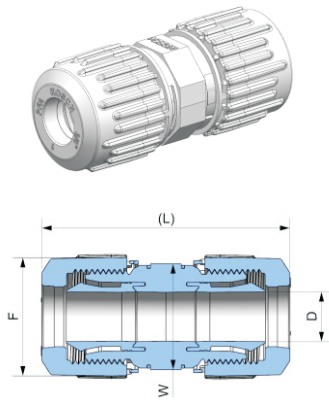
直管异径三通 Tee reduced
BSTR中间单口等径直管/单侧异径
入珠 Insert Bushing

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中间单口异径直管/双侧等径
入珠 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	

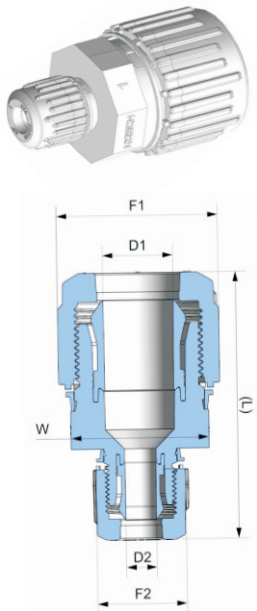


等径直通 Socket

BDE

入珠 Insert Bushing

Size (inch)	Code		L	D	F
	PFA-UHP	PFA			
	Unit: mm				
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

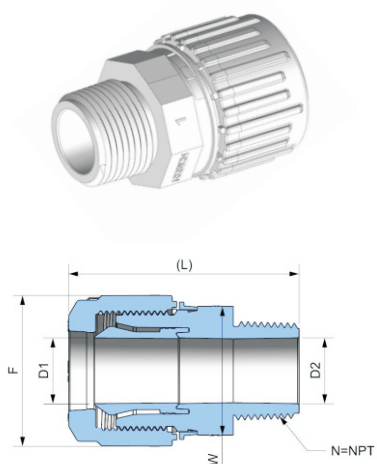


异径直通 Socket reduced

BDR

入珠 Insert Bushing

Size (inch)	Code		D1	D2	L	W	F1	F2
	PFA-UHP	PFA						
	Unit: mm							
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



外牙直通 Male connector

BMDE-NPT 螺纹

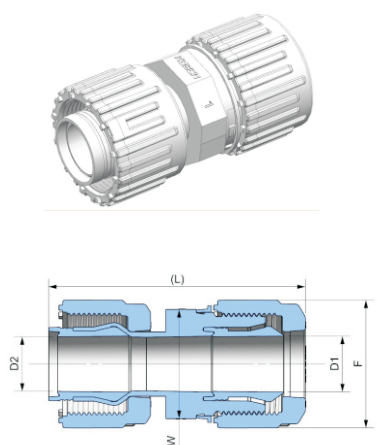
入珠 Insert Bushing

Size (inch)	Code		L	W	D1	D2	F
	PFA-UHP	PFA					
	Unit: mm						
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 螺纹

入珠 Insert Bushing

Size (inch)	Code		L	W	D1	D2	F
	PFA-UHP	PFA					
	Unit: mm						
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

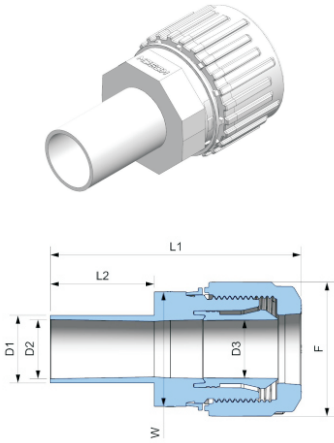


省空间直通 Save space Socket

BLDE

入珠 Insert Bushing

Size (inch)	Code		L	W	D1	D2	F
	PFA-UHP	PFA					
	Unit: mm						
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



直管直通 Socket
BSDE
入珠 Insert Bushing

Size (inch)	Code		L1	L2	W	D1	D2	D3	F
	PFA-UHP	PFA							
	Unit: mm								
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

