





AVS ELSA 耐高溫快速接頭, PPSU



PPSU version

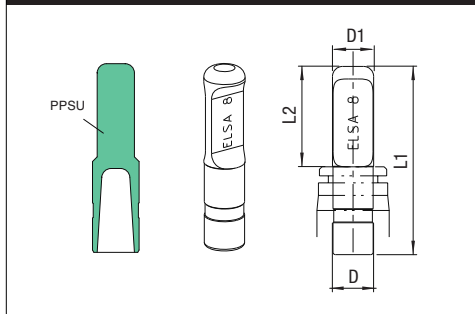
操作壓力由技術真空到最大壓力請參照相應規範表。
溫度範圍由0°C至+ 140°C(限制見規格表)。

應用範圍

主要使用PPSU製成的ELSA快插裝置。
在食品工業中，用於溫度高達140°C的液體(熱水、咖啡、蒸氣...)。
這些快插裝置配備了符合FDA標準的FKM密封圈。可根據要求，提供符合FDA標準和KTW認證的EPDM密封圈。
這些高科技的塑料接頭，是不鏽鋼接頭的低成本替代品，可應用於許多領域。

產品規格		
閥體材質 / 適用性		
Plastic PPSU	Polyphenylsulfone. Suitable for many aggressive media with temperatures up to 140°C (hot water, steam). The FKM sealing ring is FDA-compliant and can be used in the food and pharmaceutical industries. Caution! PPSU should not be used in contact with aromatic hydrocarbons, oxidising acids, acetone, chlorinated hydrocarbons, ethers or ketones! Also, PPSU should not be placed directly in contact with anaerobic adhesives!	
其他材料	See relevant products	
認證	NSF/ANSI 169	
管材規格		
外徑Ø OD [mm]	4, 6 and 8	
公差 [mm]	± 0.1	
Perm. grades	Polyamide (PA), polyurethane (PU), fluorine polymer (FEP and PFA)	
螺紋		
外螺紋	“M” cylindrical thread: Metric ISO thread M5	
外螺紋	“G” cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8 up to G 3/8	
內螺紋	“G” cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8 up to G 1/4	
工作壓力 / 溫度		
塑膠配件	Max. Operating pressure OP at the stated ambient temp. and medium temp. according to table	Means that the allowable operating pressure OP within the allowable ambient temperature also depends on the medium temperature in accordance with the specification table.
Allowable operating pressure and operating temperature of pipe / tube must be observed!		
螺紋密封圈		
圓柱型螺紋接頭	Thread sealed by a FKM O-Ring in recess	applies to all cylindrical threaded nipples
“可旋轉” 版本		
90° 彎頭, T型和Y型適配器-公接頭	not suitable for rotating or oscill. movements	Some types of fittings rotate 360° in order to facilitate alignment during assembly or for compensating movement.
特別版本 (不包括在目錄中)		
We also produce ELSA push-in connectors in various special versions not included in the catalogue, as well as customer-specific versions. • other O-ring materials such as EPDM, FDA-compliant • for pipes / tubes with inch dimensions • “R” conical threaded fitting		

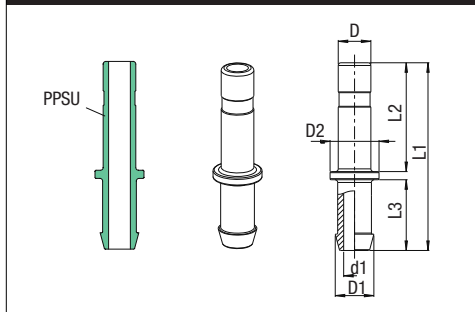
尺寸圖



Push-in Plug

Product group	15	Max. allow. OP at ambient temp. $T_{\min}$ -20°C, $T_{\max}$ +60°C							Plastic PPSU	
for plug-in connector D	Max. allow. OP [bar] at medium temp.			L1	L2	D1	Weight in [g]	Type	Order number	
	20°C	100°C	140°C							
4	20	16	10	31.5	17	6	0.7	971P3-4	237495	
6	20	16	10	34.5	19	8	1.2	971P3-6	237496	
8	16	12	10	37.5	20	8	1.7	971P3-8	237497	

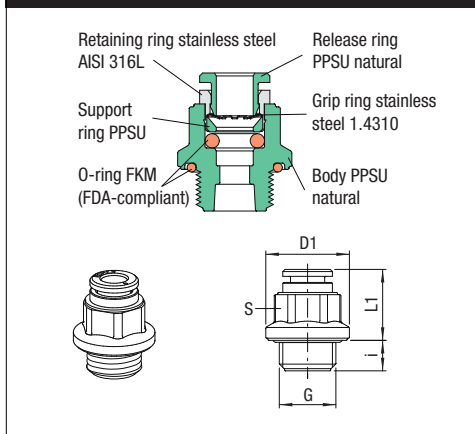
尺寸圖



Straight Stem Connector with Hose Tail

Product group	15	Max. allow. OP at ambient temp. T _{min} -20°C, T _{max} +60°C											Plastic PPSU	
for plug-in connction D	for tube LW	Max. allow. OP [bar] at medium temp.			d1	L1	L2	L3	D1	D2	Weight in [g]	Type	Order number	
		20°C	100°C	140°C										
4	2.7-3	20	16	10	1.8	27	17	8.5	3.6	5.5	0.1	907P3-D4-3	281181	
4	3.5-4	20	16	10	2.5	28.5	17	10	5.1	6	0.1	907P3-D4-4	281182	
6	2.7-3	20	16	10	1.8	28.5	20	8.5	3.6	6	0.1	907P3-D6-3	281183	
6	3.5-4	20	16	10	2.8	30	20	10	5.1	6	0.1	907P3-D6-4	281184	
6	5-6	20	16	10	4	34.5	20	13	7.1	9	0.1	907P3-D6-7	281185	

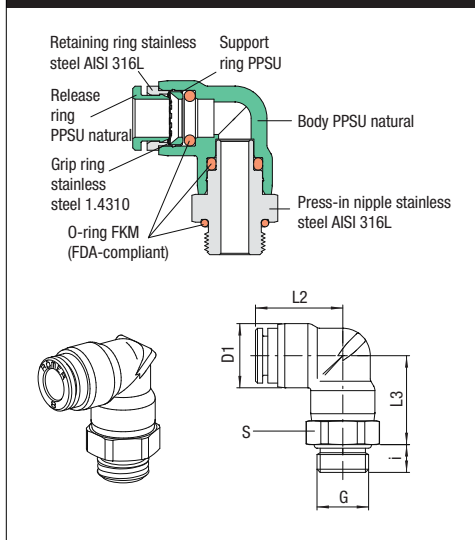
尺寸圖



Straight Adapter - Male

Product group	15	Max. allow. OP at ambient temp. T_{min} 0°C, T_{max} +60°C			Thread cylindrical	Thread sealed by a FKM O-Ring in recess			Tightening torque 3-3.5 Nm		Plastic PPSU	
for tube OD	G	Max. allow. OP [bar] at medium temp.			i	L1	D1	S	Weight in [g]	Type	Order number	
		20°C	100°C	140°C								
4	G 1/8	20	16	10	6	17	16	14	4.3	951P3-4FF-1/8	367051	
4	G 1/4	20	16	10	7	16	19	14	5.1	951P3-4FF-1/4	367052	
6	G 1/8	20	16	10	6	17.5	16	14	4.6	951P3-6FF-1/8	367053	
6	G 1/4	20	16	10	7	16.5	19	14	5.4	951P3-6FF-1/4	367054	

尺寸圖



90° Elbow Adapter - Male - Positionable

Product group	15	Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C			Thread cylindrical		Thread sealed by a FKM O-Ring in recess			not suitable for rotating or oscill. movement			Plastic PPSU
for tube OD	G	Max. allow. OP [bar] at medium temp.			i	L2	L3	D1	S	Weight in [g]	Type	Order number	
		20°C	100°C	140°C									
4	M 5	20	16	10	3.5	15	11	10	8	3.7	930P3-4FF-M5	367057	
4	G 1/8	20	16	10	5	19	19.5	12	13	14.4	930P3-4FF-1/8	367058	
4	G 1/4	20	16	10	7	19	20	12	17	24	930P3-4FF-1/4	367059	
6	M 5	20	16	10	3.5	17	11	12	8	4.3	930P3-6FF-M5	367060	
6	G 1/8	20	16	10	5	19.5	19.5	14	13	15.6	930P3-6FF-1/8	367061	
6	G 1/4	20	16	10	7	19.5	20	14	17	24.2	930P3-6FF-1/4	367062	
8	G 1/8	16	12	6	5	22.5	22.5	17	17	25	930P3-8FF-1/8	366805	
8	G 1/4	16	12	6	7	22.5	22.5	17	17	40.0	930P3-8FF-1/4	366806	
8	G 3/8	16	12	6	8	22.5	22.5	17	19	38.4	930P3-8FF-3/8	366807	

90° Elbow Connector with Stem													
Product group		Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C					NSF		Plastic PPSU				
for tube OD	Stem D3	Max. allow. OP [bar] at medium temp.			I	L2	L3	D1	L5	Weight in [g]	Type	Order number	
		20°C	100°C	140°C									
4	4	20	16	10	17.5	19	22	12.5	9	o. r.	911P3-4FF-D4	367001	
4	6	20	16	10	18.5	19	23	12.5	9	o. r.	911P3-4FF-D6	367002	
6	4	20	16	10	17.5	19.5	22	14	9	o. r.	911P3-6FF-D4	367003	
6	6	20	16	10	18.5	19.5	23	14	9	o. r.	911P3-6FF-D6	367004	

尺寸圖

Retaining ring stainless steel AISI 316L

Support ring PPSU

Release ring PPSU natural

Grip ring stainless steel 1.4310

O-ring FKM (FDA-compliant)

Body PPSU natural

L2

D1

L5

L3

D3

90° Elbow Adapter - Female - Positionable

Product group	15	Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C	Thread cylindrical	not suitable for rotating or oscill. movement	NSF certified	Plastic PPSU
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for tube OD	G	Max. allow. OP [bar] at medium temp.			i	L2	L3	D1	S	Weight in [g]	Type	Order number	
		20°C	100°C	140°C									
4	G 1/8	20	16	10	6.5	19	24.5	12	13	15.9	979P3-4FF-1/8	366762	
4	G 1/4	20	16	10	9	19	27.5	12	17	24.3	979P3-4FF-1/4	366763	
6	G 1/8	20	16	10	6.5	19.5	24.5	14	13	16.4	979P3-6FF-1/8	366764	
6	G 1/4	20	16	10	9	19.5	27.5	14	17	24.8	979P3-6FF-1/4	366765	
8	G 1/8	16	12	6	6.5	22.5	25.5	17	17	26.4	979P3-8FF-1/8	366766	
8	G 1/4	16	12	6	9	22.5	30.5	17	17	30.3	979P3-8FF-1/4	366767	

尺寸圖

Retaining ring stainless steel AISI 316

Support ring PPSU

Release ring PPSU natural

Body PPSU natural

Grip ring stainless steel 1.4310

O-ring FKM (FDA-compliant)

Press-in soc stainless steel AISI 316

L2

D1

L3

S

G

T-Adapter - Male - Positionable													
Product group	15	Max. allow. OP at ambient temp. T_{min} 0°C, T_{max} +60°C					Thread cylindrical		Thread sealed by a FKM O-Ring in recess		not suitable for rotating or oscill. movement		
		Max. allow. OP [bar] at medium temp.					i	L2	L3	D1	S	Weight in [g]	
for tube OD	G	20°C	100°C	140°C								Type	Order number
4	G 1/8	20	16	10	5	19	19.5	14	13	18.7		921P3-4FF-1/8	367065
4	G 1/4	20	16	10	7	19	20	14	17	27.3		921P3-4FF-1/4	367066
6	G 1/8	20	16	10	5	19.5	19.5	14	13	18.9		921P3-6FF-1/8	367067
6	G 1/4	20	16	10	7	19.5	20	14	17	27.6		921P3-6FF-1/4	367068
8	G 1/8	16	12	6	5	22.5	22.5	17	17	28.8		921P3-8FF-1/8	366810
8	G 1/4	16	12	6	7	22.5	22.5	17	17	33.3		921P3-8FF-1/4	366811
8	G 3/8	16	12	6	8	22.5	22.5	17	19	42.2		921P3-8FF-3/8	366812

Retaining ring stainless steel

AISI 316L Release ring PPSU natural

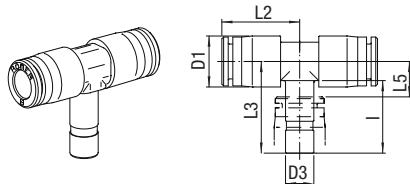
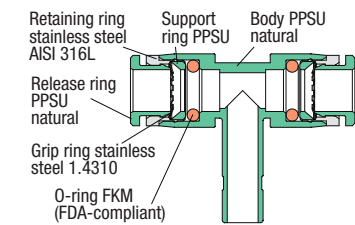
Grip ring stainless steel 1.4310 O-ring FKM (FDA-compliant)

Support ring PPSU

Body PPSU natural

Press-in nipple stainless steel AISI 316L

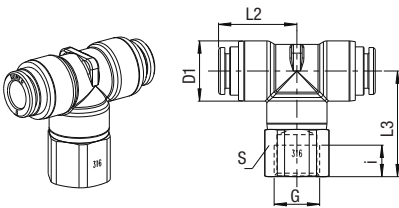
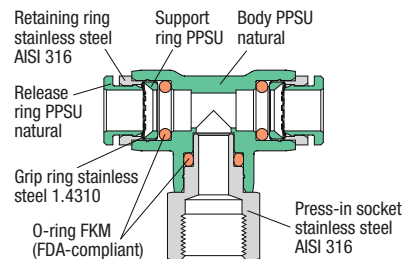
尺寸圖



T-Stem Connector

Product group		15	Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C			NSF		Plastic PPSU					
for tube OD	Stem D3		Max. allow. OP [bar] at medium temp.			I	L2	L3	D1	L5	Weight in [g]	Type	Order number
		20°C	100°C	140°C									
4	4	20	16	10	17.5	19	22	12.5	9	o. r.	912P3-4FF-D4	367007	
4	6	20	16	10	18.5	19	23	12.5	9	o. r.	912P3-4FF-D6	367008	
6	4	20	16	10	17.5	19.5	22	14	9	o. r.	912P3-6FF-D4	367009	
6	6	20	16	10	18.5	19.5	23	14	9	o. r.	912P3-6FF-D6	367010	

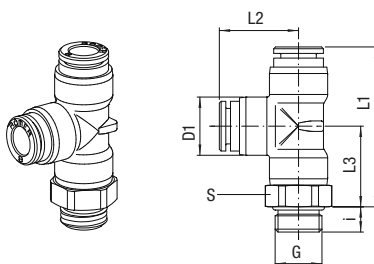
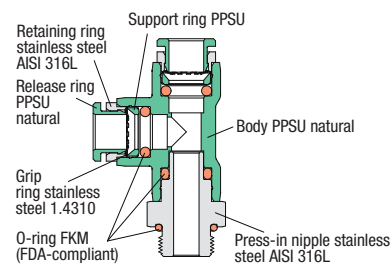
尺寸圖



T-Adapter - Female - Positionable

Product group	15	Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C			Thread cylindrical		not suitable for rotating or oscill. movement			 NSF		Plastic PPSU	
for tube OD	G	Max. allow. OP [bar] at medium temp.			i	L2	L3	D1	S	Weight in [g]	Type	Order number	
		20°C	100°C	140°C									
4	G 1/8	20	16	10	6.5	19	24.5	12	13	18.7	970P3-4FF-1/8	366770	
4	G 1/4	20	16	10	9	19	27.5	12	17	27.1	970P3-4FF-1/4	366771	
6	G 1/8	20	16	10	6.5	19.5	24.5	14	13	19	970P3-6FF-1/8	366772	
6	G 1/4	20	16	10	9	19.5	27.5	14	17	27.4	970P3-6FF-1/4	366773	
8	G 1/8	16	12	6	6.5	22.5	25.5	17	17	30.4	970P3-8FF-1/8	366774	
8	G 1/4	16	12	6	9	22.5	30.5	17	17	34.3	970P3-8FF-1/4	366775	

尺寸圖



Side T-Adapter, Male - Positionable

Product group	15	Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C			Thread cylindrical		Thread sealed by a FKM O-Ring in recess			not suitable for rotating or oscill. movement			NSF	Plastic PPSU	
for tube OD	G	Max. allow. OP [bar] at medium temp.			i	L1	L2	L3	D1	S	Weight in [g]	Type	Order number		
		20°C	100°C	140°C											
4	G 1/8	20	16	10	5	38.5	19	19.5	14	13	18.7	922P3-4FF-1/8	367071		
4	G 1/4	20	16	10	7	39	19	20	14	17	27.3	922P3-4FF-1/4	367072		
6	G 1/8	20	16	10	5	39	19.5	19.5	14	13	18.9	922P3-6FF-1/8	367073		
6	G 1/4	20	16	10	7	39.5	19.5	20	14	17	27.6	922P3-6FF-1/4	367074		
8	G 1/8	16	12	6	5	44	22.5	22.5	17	17	28.8	922P3-8FF-1/8	366815		
8	G 1/4	16	12	6	7	45	22.5	22.5	17	17	33.3	922P3-8FF-1/4	366816		
8	G 3/8	16	12	6	8	45	22.5	22.5	17	19	42.2	922P3-8FF-3/8	366817		

Side T-Adapter - Female - Positionable															尺寸圖	
Product group		15	Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C			Thread cylindrical		Thread sealed by a FKM O-Ring in recess			not suitable for rotating or oscill. movement		NSF		Plastic PPSU	
for tube OD	G		Max. allow. OP [bar] at medium temp.			i	L1	L2	L3	D1	S	Weight in [g]	Type	Order number		
			20°C	100°C	140°C											
4	G 1/8	20	16	10	6.5	43.5	19	24.5	12	13	18.7	923P3-4FF-1/8	366778			
4	G 1/4	20	16	10	9	46.5	19	27.5	12	17	27.1	923P3-4FF-1/4	366779			
6	G 1/8	20	16	10	6.5	44	19.5	24.5	14	13	19	923P3-6FF-1/8	366780			
6	G 1/4	20	16	10	9	47	19.5	27.5	14	17	27.4	923P3-6FF-1/4	366781			
8	G 1/8	16	12	6	6.5	48	22.5	25.5	17	17	30.4	923P3-8FF-1/8	366782			
8	G 1/4	16	12	6	9	53	22.5	30.5	17	17	34.3	923P3-8FF-1/4	366783			

Technical drawing of the Side T-Adapter - Female - Positionable. The drawing shows a cross-section of the adapter with the following components and dimensions labeled:

- Support ring PPSU
- Retaining ring stainless steel AISI 316
- Release ring PPSU natural
- Grip ring stainless steel 1.4310
- O-ring FKM (FDA-compliant)
- Body PPSU natural
- Press-in socket stainless steel AISI 316
- Dimensions: L2, L1, L3, D1, S, G

Y-Adapter - Male - Positionable														尺寸圖		
Product group		15		Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C			Thread cylindrical		Thread sealed by a FKM O-Ring in recess		not suitable for rotating or oscill. movement		NSF		Plastic PPSU	
for tube OD	G	Max. allow. OP [bar] at medium temp.			i	L1	L2	D1	S	Weight in [g]	Type	Order number				
		20°C	100°C	140°C												
4	G 1/8	20	16	10	5	38.5	12.5	12.5	13	19.7	992P3-4FF-1/8	367077				
4	G 1/4	20	16	10	7	39	12.5	14	17	20.2	992P3-4FF-1/4	367078				
6	G 1/8	20	16	10	5	39	12.5	14	13	20.2	992P3-6FF-1/8	367079				
6	G 1/4	20	16	10	7	39.5	12.5	14	17	28.9	992P3-6FF-1/4	367080				
8	G 1/8	16	12	6	5	43.5	14.5	17	17	29.2	992P3-8FF-1/8	366820				
8	G 1/4	16	12	6	7	43.5	14.5	17	17	33.7	992P3-8FF-1/4	366821				
8	G 3/8	16	12	6	8	43.5	14.5	17	19	42.6	992P3-8FF-3/8	366822				

Retaining ring stainless steel AISI 316

Grip ring stainless steel 1.4310

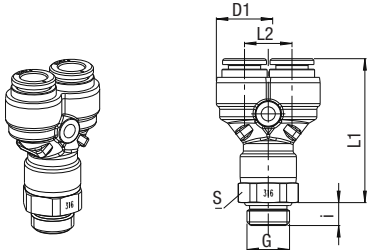
Release ring PPSU natural

Support ring PPSU

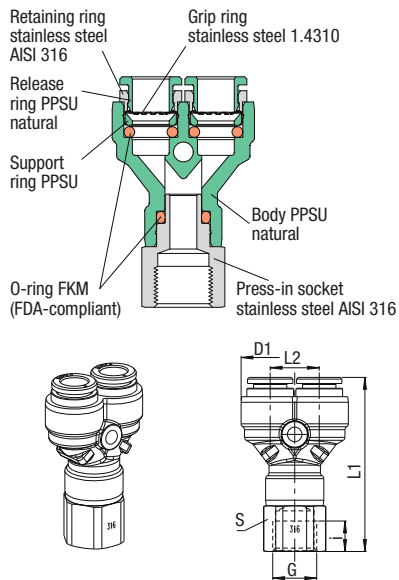
O-ring FKM (FDA-compliant)

Body PPSU natural

Press-in nipple stainless steel AISI 316



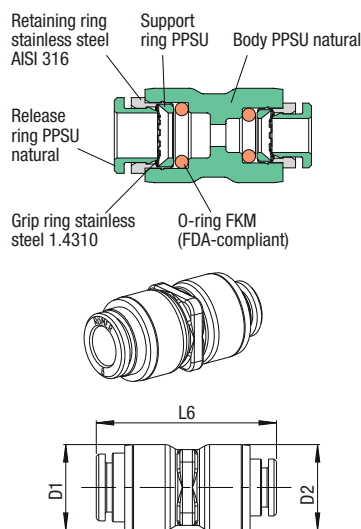
尺寸圖



Y-Adapter - Female - Positionable

Product group		15	Max. allow. OP at ambient temp. T_{min} 0°C, T_{max} +60°C			Thread cylindrical		Thread sealed by a FKM O-Ring in recess			not suitable for rotating or oscill. movement		NSF	Plastic PPSU	
for tube OD	G	Max. allow. OP [bar] at medium temp.			i	L1	L2	D1	S	Weight in [g]	Type	Order number			
		20°C	100°C	140°C											
4	G 1/8	20	16	10	6.5	43.5	12.5	12.5	13	19.4	993P3-4FF-1/8	366786			
4	G 1/4	20	16	10	9	46.5	12.5	14	17	27.9	993P3-4FF-1/4	366787			
6	G 1/8	20	16	10	6.5	44	12.5	14	13	19.7	993P3-6FF-1/8	366788			
6	G 1/4	20	16	10	9	47	12.5	14	17	28.1	993P3-6FF-1/4	366789			
8	G 1/8	16	12	6	6.5	46.5	14.5	17	17	31.3	993P3-8FF-1/8	366790			
8	G 1/4	16	12	6	9	51.5	14.5	17	17	33.7	993P3-8FF-1/4	366791			

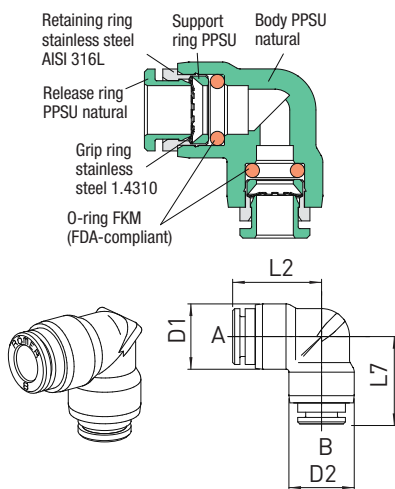
尺寸圖



Straight Connector

Product group		Max. allow. OP at ambient temp. $T_{min} 0^{\circ}C, T_{max} +60^{\circ}C$									
for tube OD	for tube BD	Max. allow. OP [bar] at medium temp.			L6	D1	D2	Weight in [g]	Type	Order number	
		20°C	100°C	140°C							
4	4	20	16	10	32	12.5	12.5	6	958P3-4FF	367083	
6	4	20	16	10	32.5	14	14	6.7	958P3-6-4FF	367084	
6	6	20	16	10	33	14	14	7	958P3-6FF	367085	
8	6	16	12	6	36	17	17	10.4	958P3-8-6FF	367086	
8	8	16	12	6	36.5	17	17	11.1	958P3-8FF	367087	

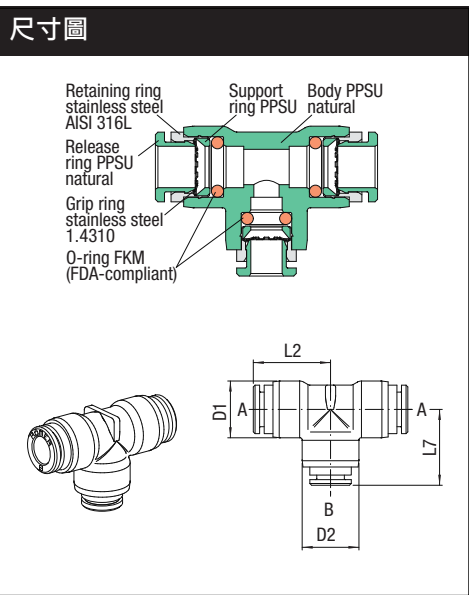
尺寸圖



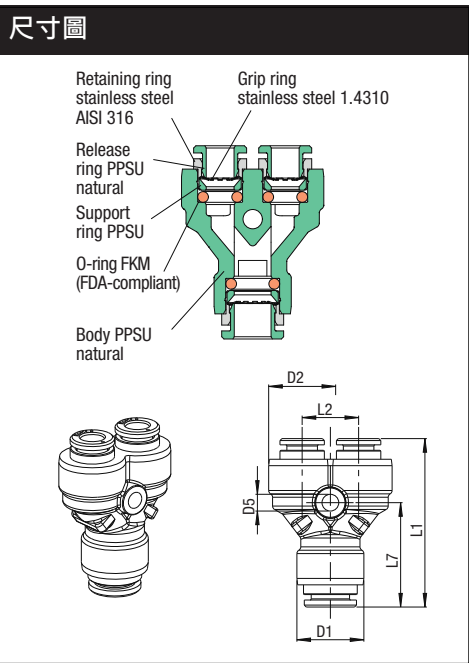
90° Elbow Connector

Product group		Max. allow. OP at ambient temp. $T_{min} 0^{\circ}C, T_{max} +60^{\circ}C$									
for tube OD	for tube BD	Max. allow. OP [bar] at medium temp.			L2	L7	D1	D2	Weight in [g]	Type	Order number
		20°C	100°C	140°C							
4	4	20	16	10	17.5	17.5	12	12	6.5	955P3-4FF	367088
6	4	20	16	10	19.5	19	14	14	7.2	955P3-6-4FF	367089
6	6	20	16	10	19.5	19.5	14	14	7.5	955P3-6FF	367090
8	6	16	12	6	22.5	22	17	17	12.5	955P3-8-6FF	367091
8	8	16	12	6	22.5	22.5	17	17	13	955P3-8FF	367092

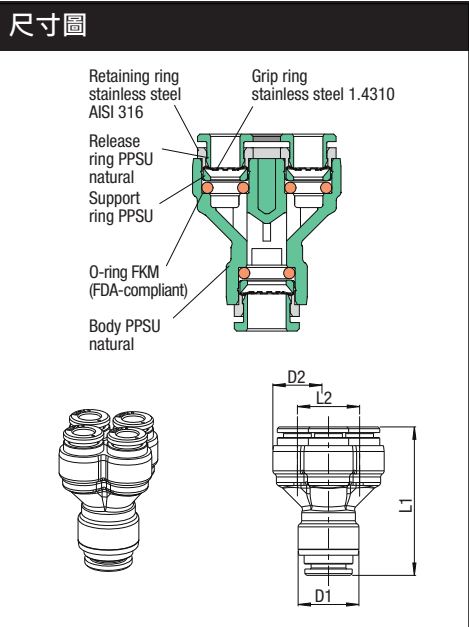
T-Connector											
Product group		15		Max. allow. OP at ambient temp. $T_{min} 0^{\circ}C, T_{max} +60^{\circ}C$				NSF		Plastic PPSU	
for tube OD	for tube BD	Max. allow. OP [bar] at medium temp.			L2	L7	D1	D2	Weight in [g]	Type	Order number
		20°C	100°C	140°C							
4	4	20	16	10	17.5	17.5	12	12	9.4	954P3-4FF	367093
6	4	20	16	10	19.5	19	14	14	10.6	954P3-6-4FF	367094
6	6	20	16	10	19.5	19.5	14	14	11	954P3-6FF	367095
8	6	16	12	6	22.5	22	17	17	17.8	954P3-8-6FF	367096
8	8	16	12	6	22.5	22.5	17	17	18.3	954P3-8FF	367097



Y-Connector															
Product group	15	Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C											Plastic PPSU		
		for tube OD	for tube BD	Max. allow. OP [bar] at medium temp.			L1	L2	L7	D1	D2			D5	Weight in [g]
		20°C	100°C	140°C											
4	4	20	16	10	38	12.5	23	12.5	12.5	3.3	10.3	982P3-4FF	367098		
6	4	20	16	10	38.5	12.5	23.5	14	14	3.3	11.4	982P3-6-4FF	367099		
6	6	20	16	10	39	12.5	23.5	14	14	3.3	12	982P3-6FF	367100		
8	6	16	12	6	43.5	14.5	27	17	17	4.3	16	982P3-8-6FF	366801		
8	8	16	12	6	43.5	14.5	27	17	17	4.3	18	982P3-8FF	366802		



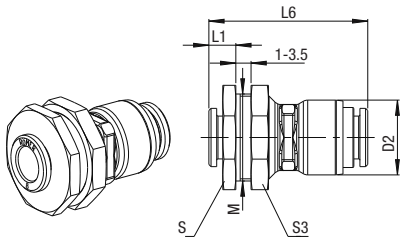
Double Y-Connector											
Product group		15		Max. allow. OP at ambient temp. $T_{min} 0^{\circ}C, T_{max} +60^{\circ}C$				NSF		Plastic PPSU	
for tube OD	for tube BD	Max. allow. OP [bar] at medium temp.			L1	L2	D1	D2	Weight in [g]	Type	Order number
		20°C	100°C	140°C							
6	6	20	16	10	41.5	17.5	17	14	12	984P3-6FF	366803
8	6	16	12	6	42	17.5	17	14	12	984P3-8-6FF	366804



尺寸圖

Retaining ring stainless steel AISI 316
Release ring PPSU natural
Grip ring stainless steel 1.4310
Flare sleeve, brass lock nut, nickel-plated

Support ring PPSU
Body PPSU natural
O-ring FKM (FDA-compliant)



Straight Bulkhead Connector

Product group		15		Max. allow. OP at ambient temp. T _{min} 0°C, T _{max} +60°C										NSF ANSI/NSF 61		Plastic PPSU	
for tube OD	for tube BD	Max. allow. OP [bar] at medium temp.			M	L1	L6	D1	D2	S	S2	S3	Weight in [g]	Type	Order number		
		20°C	100°C	140°C													
4	4	16	10	3	M14x1	10.5	31.5	9.5	9.5	17	12.5	17	19.1	959P3-4FF	366794		
6	6	16	10	3	M14x1	11	32.5	11.5	11.5	17	12.5	17	18.4	959P3-6FF	366795		
8	8	16	8	3	M16x1	12.5	36	14	11.5	19	14.5	19	28.6	959P3-8FF	366796		