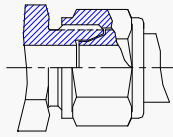


## FLARELESS SEPARABLE FITTING



### DESIGN CONCEPT:

The concept of Flareless provides positive sealing and a high degree of sealing reliability for repeated usage. The configuration of Flareless joint consists an acorn shaped fitting nose designed to mate with a 24 degree cone fitting end forming a sealing point.

A gage diameter is provided on the acorn Flareless nose near the sealing diameter for installation reference and inspection purposes. The sealing point is located at the thicker wall area of both mating fitting ends to assure proper sealing with no plastic deformation through repeated usage.

A pilot end was added to the front nose of the acorn Flareless that fits inside the undercut of the 24 degree mating cone. This feature provides fitting alignment to effect positive sealing. In addition, a predetermined bottoming gap distance between mating fitting ends at the pilot nose and the shoulder is for preventing damage on the acorn Flareless nose by over torque on the nut.

Removal of the pilot end to make a shorter fitting is optional when fittings are used in tight areas or lighter weight is required. Either option is in use successfully in the industry.

Shape fittings such as elbow, tee or cross are available in a "Lightweight" version. It saves on an average of 30 % lighter weight than the Standard version.

### DESIGN ADVANTAGES:

- X Sealing efficiency eliminates unnecessary down time and high repair cost.
- X Assembly of Flareless connections can be made in place for production and repair applications.
- X Design concept offers self-alignment to effect proper sealing. It offers bottoming feature to protect fitting from damage caused by nut over torque.

- X Fittings are available in Cres, Titanium Alloy and Aluminum Alloy materials which are virtually compatible for use with just about any tube materials.
- C No special tooling is required except standard torque wrenches for fitting installation.

## STANDARD PROCUREMENT SPECIFICATIONS FOR FLARELESS FITTINGS

SAE AS18280 or Military MIL-F-18280 specifications define Form, Fit, Function and Procurement requirements for Flareless fittings.

## QUALIFICATION AND APPROVAL STATUS

Airdrome fittings were qualified per AS/MIL-F-18280 and are reflected per PRI-QPL-AS18280. The same fittings were subjected to further testing for broader applications and the approval status is reflected per Boeing BPS-F-125 specification.

The fittings are approved for use in various military and commercial programs at Boeing, Bombardier, Canadair, Cessna, DeHavilland etc.

## FITTING MATERIAL SELECTION

Fittings and nuts are offered in the following materials for use with various tubing materials, fluid and operating temperature:

### MATERIAL AND CODING

Titanium Alloy	Code T	Indicates 6AL-4V per AMS4928.
Cres	Code J	Indicates 304 per AMS-QQ-S-763.
	Code K	Indicates 316 per AMS-QQ-S-763.
	Code R	Indicates 321 per AMS-QQ-S-763.
	Code S	Indicates 347 per AMS-QQ-S-763.
	Code V	Indicates 15-5PH, H-1075 cond., per AMS5659.
Carbon Steel	Code -	Indicates 4130 per MIL-S-6758 or 4140 per MIL-S-5626.
Aluminum Alloy	Code D	Indicates 2024-T6 or T851 per QQ-A-225/6 for bar/plate stock materials or 2014-T6 per QQ-A-367 for forging fittings.
	Code W	Indicates 7075-T73 per QQ-A-225/9 for bar/plate stock materials or per QQ-A-367 for forging material.

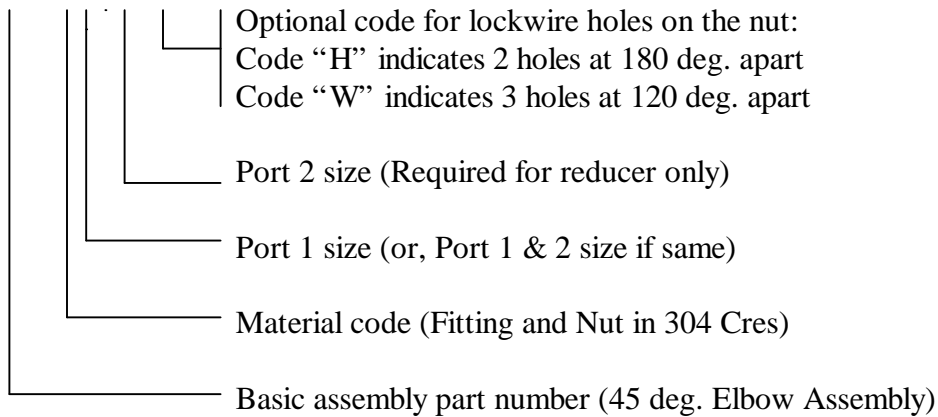
## SIZE AND MATERIAL VERSUS OPERATING PRESSURE

Fitting/tubing operating pressures vary according to size and material. The following shows standard size range and corresponding operating pressures:





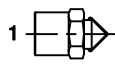

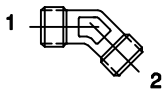
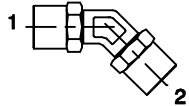
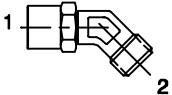
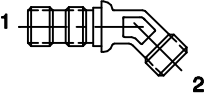
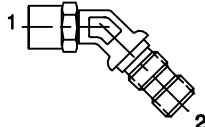
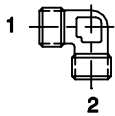
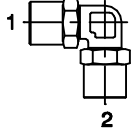
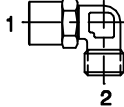
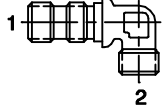
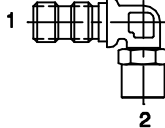
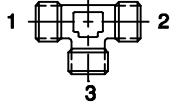
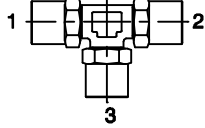
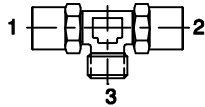
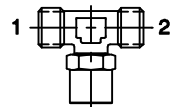
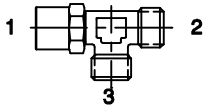
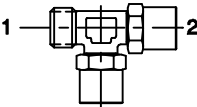
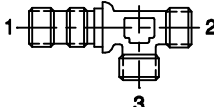
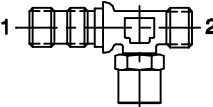
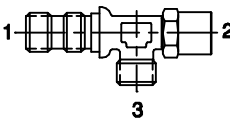
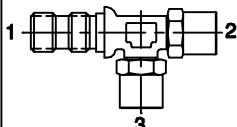
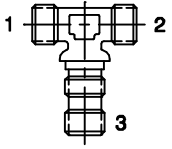
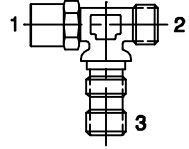
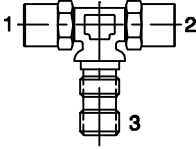
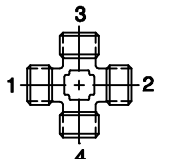
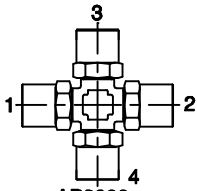
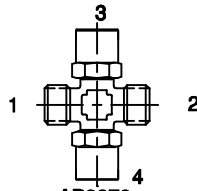
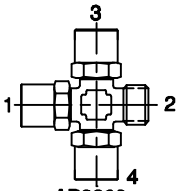
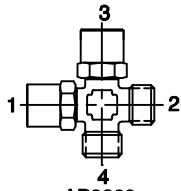
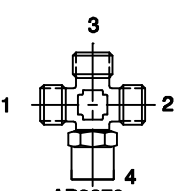
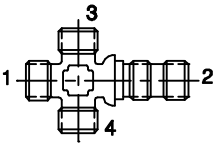
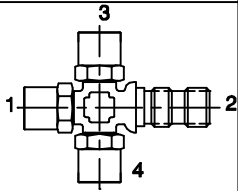
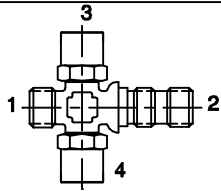
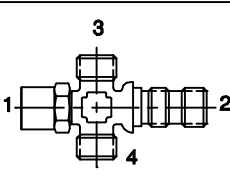
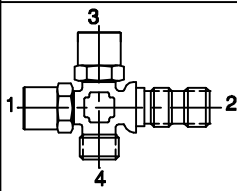
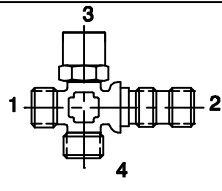
FITTING SIZE	TUBE O.D.	OPERATING PRESSURE (psi) PER FITTING MATERIAL		
		Ti Alloy	Cres	Alum Alloy
03	3/16	4000	3000	3000
04	1/4	4000	3000	3000
05	5/16	4000	3000	3000
06	3/8	4000	3000	3000
08	1/2	4000	3000	3000
10	5/8	4000	3000	3000
12	3/4	4000	3000	3000
14	7/8	4000	3000	3000
16	1	4000	3000	1500
20	1-1/4	1500	1500	1500
24	1-1/2	1500	1500	1000

## EXAMPLE OF PART NUMBER FOR ORDERING FITTING

AP1009 J 12 08 H







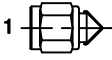


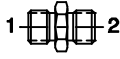

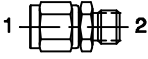
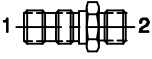

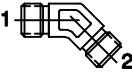
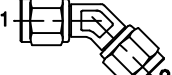
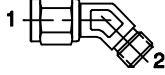

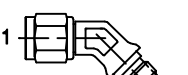

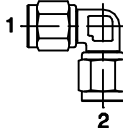
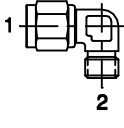
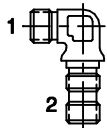
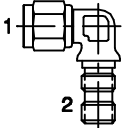
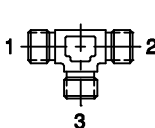
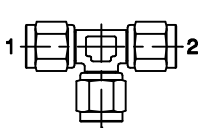
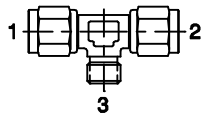
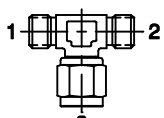
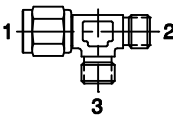
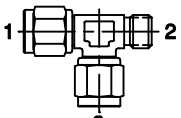
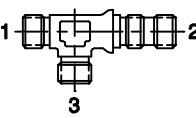
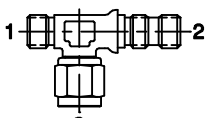
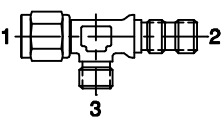
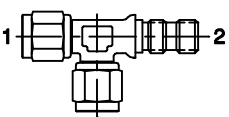
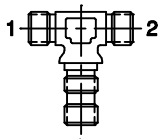
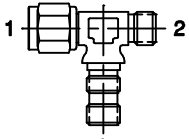
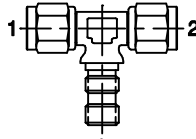
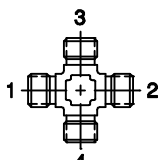
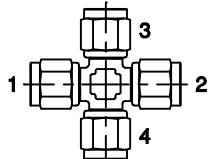
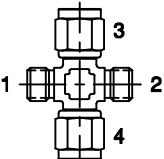
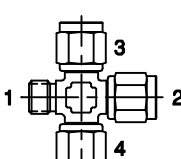
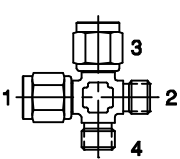
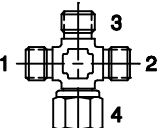
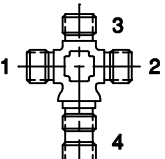
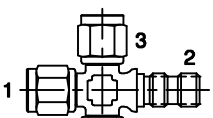
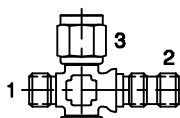
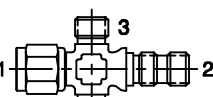
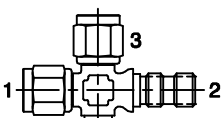
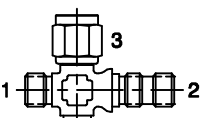
**Note:** Contact Airdrome Precision Components for special fitting configuration, material and/or size not listed in this catalog.

					
AP7035	AP273	AP1034	AP7018	AP7045	AP1016
					
AP3224	AP3233	AP1041	AP2854	AP3232	AP2851
					
AP3225	AP1042	AP2853	AP3226	AP2852	AP3246
					
AP3254	AP1040	AP1039	AP3247	AP2855	AP3255
					
AP3256	AP3257	AP2856	AP3258	AP3259	AP3262
					
AP3266	AP3276	AP3268	AP3269	AP3270	AP3271
					
AP3272	AP3273	AP3274	AP3275	AP3276	

**Lightweight 24 deg. Flareless Fittings and Equivalent Industry Standards**

Fitting Shape	Port Sequence for Airdrome Part No. only (See Example of Part No.)				Airdrome Standard	Aerospace Standard	Airforce - Navy Standard
	1	2	3	4			
Seal					AP7035		
Jam Nut					AP273	AS5178	AN924
Coupling Nut					AP1034	AS1792	
Sleeve	F				AP7018		
Cap	F				AP7045		
Plug	M				AP1016		
45 deg. Elbow	M	M			AP3224		
	F	F			AP3233		
	F	M			AP1041	AS4137	
	B	M			AP2854	AS4130	
	F	B			AP3232		
90 deg. Elbow	M	M			AP2851	AS4131	
	F	F			AP3225		
	F	M			AP1042	AS4138	
	B	M			AP2853	AS4132	
	B	F			AP3226		
Tee	M	M	M		AP2852	AS4133	
	F	F	F		AP3246		
	F	F	M		AP3254		
	M	M	F		AP1040	AS4140	
	F	M	M		AP1039	AS4139	
	M	F	F		AP3247		
	B	M	M		AP2855	AS4134	
	B	M	F		AP3255		
	B	F	M		AP3256		
	B	F	F		AP3257		
	M	M	B		AP2856	AS4135	
	F	M	B		AP3258		
	F	F	B		AP3259		
Cross	M	M	M	M	AP3262	AS4136	
	F	F	F	F	AP3266		
	M	M	F	F	AP3276		
	F	M	F	F	AP3268		
	F	M	F	M	AP3269		
	M	M	M	F	AP3270	AS4141	
	M	B	M	M	AP3271		
	F	B	F	F	AP3272		
	M	B	F	F	AP3273		
	F	B	M	M	AP3274		
	F	B	F	M	AP3275		
	M	B	F	M	AP3276		

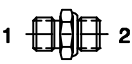
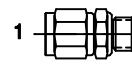


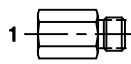
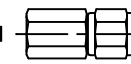
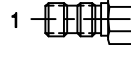
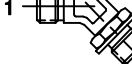
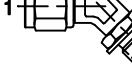

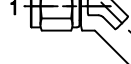
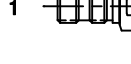






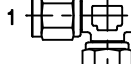
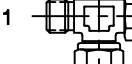

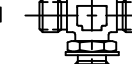

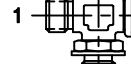
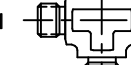

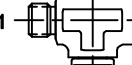


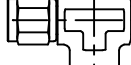


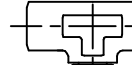
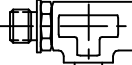
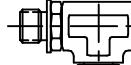
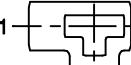
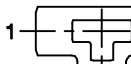
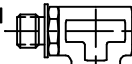
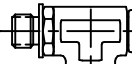
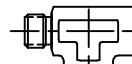

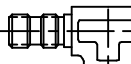
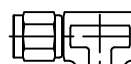




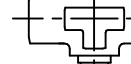



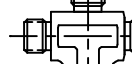


Note: 1. F = Female port, M = Male port, B = Bulkhead male port.

					
<b>AP7035</b>	<b>AP273</b>	<b>AP7004</b>	<b>AP7018</b>	<b>AP1008</b>	<b>AP7046</b>
					
<b>AP1016</b>	<b>AP1001/AP1027</b>	<b>AP7112</b>	<b>AP1059</b>	<b>AP1002</b>	<b>AP7230</b>
					
<b>AP7365</b>	<b>AP7396</b>	<b>AP1009</b>	<b>AP7310</b>	<b>AP7397</b>	<b>AP1056</b>
					
<b>AP7301</b>	<b>AP1010</b>	<b>AP7311</b>	<b>AP7398</b>	<b>AP7572</b>	<b>AP7501</b>
					
<b>AP1073</b>	<b>AP1015</b>	<b>AP1013</b>	<b>AP1074</b>	<b>AP7551</b>	<b>AP787</b>
					
<b>AP786</b>	<b>AP7601</b>	<b>AP7573</b>	<b>AP7602</b>	<b>AP7603</b>	<b>AP7727</b>
					
<b>AP7701</b>	<b>AP7728</b>	<b>AP7702</b>	<b>AP7729</b>	<b>AP1011</b>	<b>AP1050</b>
					
<b>AP7730</b>	<b>AP7731</b>	<b>AP7732</b>	<b>AP7733</b>	<b>AP7734</b>	

### 24 deg. Flareless Fittings and Equivalent Industry Standards

Fitting Shape					Airdrome Standard	Aerospace Standard	National Aerospace Standard	Military Standard	Airforce - Navy Standard
	1	2	3	4					
Seal					AP7035	AS4825			
Jam Nut					AP273				AN924
Coupling Nut					AP7004	AS5234		MS21921	
Sleeve	F				AP7018	AS5235		MS21922	
Press Cap	F				AP1008	AS5233		MS21914	
Dust Cap	F					AS4300			
Plug	M				AP1016	AS5231		MS21913	
Straight	M	M			AP1001 *AP1027	AS5230		MS21902 *MS21916	
	F	F			AP7112				
	F	M			AP1059				
	B	M			AP1002	AS1007		MS21924	
	B	F			AP7230				
45 deg. Elbow	M	M			AP7365				
	F	F			AP7396				
	F	M			AP1009		NAS1761		
	M	B			AP7310	AS1010		MS21907	
	F	B			AP7397				
90 deg. Elbow	M	M			AP1056	AS1004		MS21904	
	F	F			AP7301				
	F	M			AP1010		NAS1762		
	M	B			AP7311	AS1008		MS21908	
	F	B			AP7398				
Tee	M	M	M		AP7572	AS1005		MS21905	
	F	F	F		AP7501				
	F	F	M		AP1073				
	M	M	F		AP1015		NAS1764		
	F	M	M		AP1013		NAS1763		
	F	M	F		AP1074				
	M	B	M		AP7551	AS1003		MS21912	
	M	B	F		AP787				
	F	B	M		AP786				
	F	B	F		AP7601				
	M	M	B		AP7573	AS1009		MS21909	
	F	M	B		AP7602				
	F	F	B		AP7603				
Cross	M	M	M	M	AP7727	AS1006		MS21906	
	F	F	F	F	AP7701				
	M	M	F	F	AP7728				
	M	F	F	F	AP7702				
	F	M	F	M	AP7729				
	M	M	M	F	AP1011				
	M	M	M	B	AP1050				
	F	B	F	F	AP7730				
	M	B	F	F	AP7731				
	F	B	M	M	AP7732				
	F	B	F	M	AP7733				
M	B	F	M	AP7734					

Notes: 1. F = Female port, M = Male port, B = Bulkhead male port.  
 2. \* = A different part number assigned for reducers.

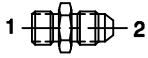
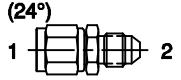
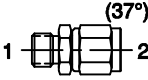
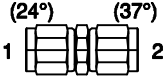
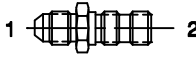
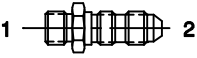
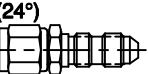
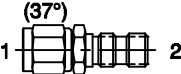
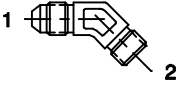
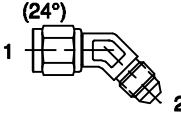
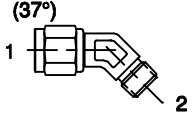
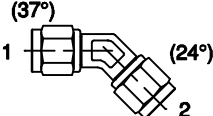
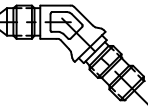
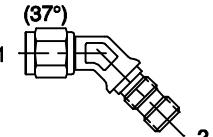
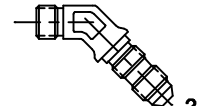
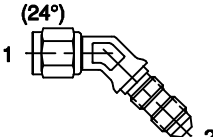
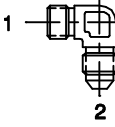
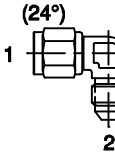
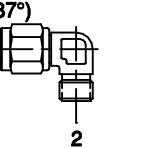
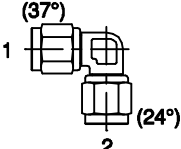
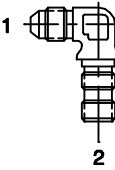
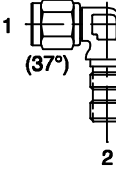
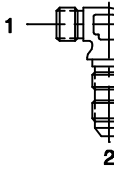
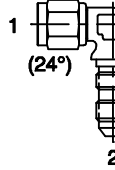
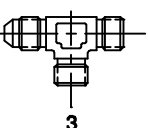
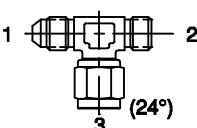
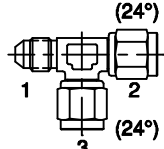
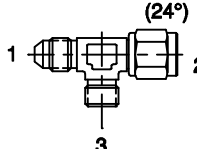
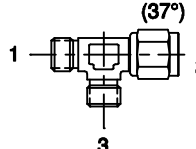
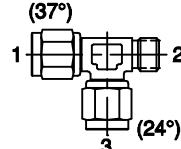
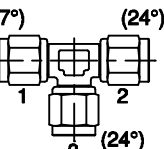
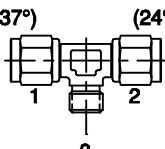
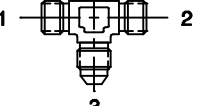
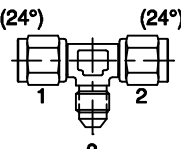
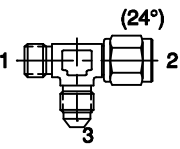
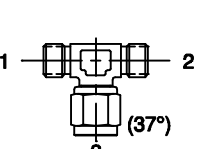
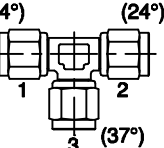
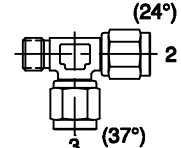
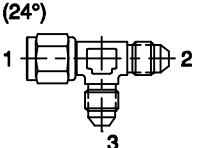
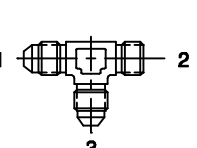
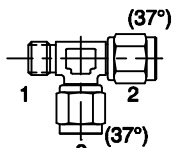
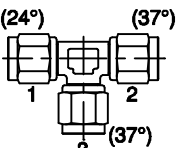
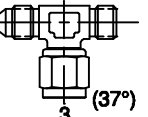
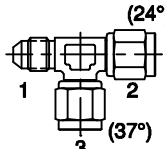
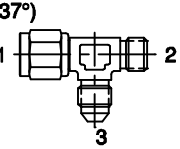
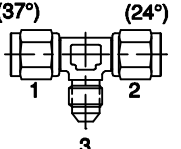
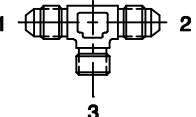
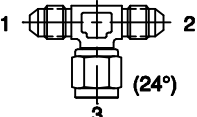
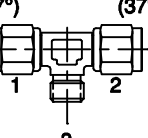
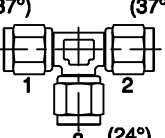
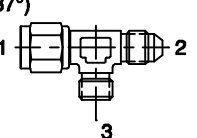
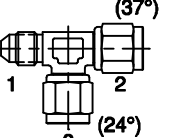
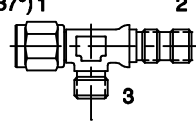
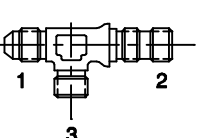
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 <b>AP7232</b>	 <b>AP7357</b>	 <b>AP7405</b>	 <b>AP7406</b>	 <b>AP7409</b>	 <b>AP7407</b>
 <b>AP7319</b>	 <b>AP7346</b>	 <b>AP7408</b>	 <b>AP7410</b>	 <b>AP2616</b>	 <b>AP7569</b>
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 <b>AP7631</b>	 <b>AP7632</b>	 <b>AP7633</b>	 <b>AP7634</b>	 <b>AP1053</b>	 <b>AP7503</b>
 <b>AP7528</b>	 <b>AP7638</b>	 <b>AP7639</b>	 <b>AP7640</b>	 <b>AP7641</b>	 <b>AP7642</b>
 <b>AP7643</b>	 <b>AP7644</b>	 <b>AP7645</b>	 <b>AP7646</b>	 <b>AP7647</b>	 <b>AP7635</b>
 <b>AP943</b>	 <b>AP766</b>	 <b>AP7511</b>	 <b>AP7636</b>	 <b>AP7637</b>	 <b>AP7515</b>
 <b>AP7547</b>	 <b>AP7739</b>	 <b>AP7740</b>	 <b>AP7741</b>	 <b>AP7742</b>	 <b>AP7743</b>



**Adapters for 24 deg. Flareless to Boss and Equivalent Industry Standards**

Fitting Shape	Port Sequence for Airdrome Part No. only (See Example of Part No.)				Airdrome Standard	Aerospace Standard	Military Standard
	1	2	3	4			
Straight	M	**M			AP2501 *AP2503		
	F	**M			AP1105		
	M	M			AP7104		
	F	M			AP1051		
	F	M			AP236		MS21915
	F	F			AP229		
	B	F			AP7232		
45 deg. Elbow	M	M			AP7357		
	F	M			AP7405		
	M	F			AP7406		
	F	F			AP7409		
	B	F			AP7407		
90 deg. Elbow	M	M			AP7319		
	F	M			AP7346		
	F	M			AP7408		
	F	F			AP7410		
	F	B			AP2616		
Tee	M	M	M		AP7569		
	F	M	F		AP7626		
	M	M	F		AP7627		
	F	M	M		AP7628		
	M	M	M		AP7568		
	F	F	M		AP7629		
	M	F	M		AP7630		
	M	F	M		AP7631		
	F	F	F		AP7632		
	M	F	F		AP7633		
	F	F	M		AP7634		
	M	M	F		AP1053		
	F	F	F		AP7503		
	F	M	F		AP7528		
	F	F	M		AP7638		
	F	F	F		AP7639		
	M	F	M		AP7640		
	M	F	F		AP7641		
	F	M	F		AP7642		
	F	F	F		AP7643		
	M	M	F		AP7644		
	M	F	F		AP7645		
	M	F	M		AP7646		
	F	F	M		AP7647		
	B	M	F		AP7635	AS1001	MS21910
	F	B	F		AP943		
	M	F	B		AP766		
B	F	M		AP7511	AS1002	MS21911	
B	F	F		AP7636			
F	F	B		AP7637			
F	F	B		AP7515			
B	F	F		AP7547			
Cross	M	M	M	M	AP7739		
	F	F	F	F	AP7740		
	M	M	M	M	AP7741		
	F	F	F	F	AP7742		
	F	M	M	M	AP7743		

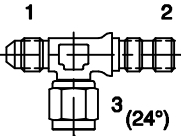
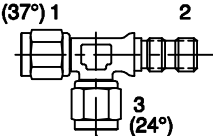
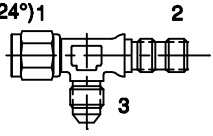
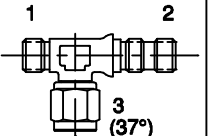
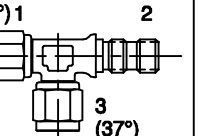
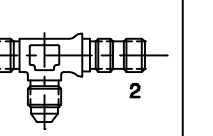
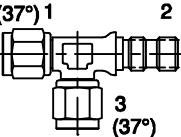
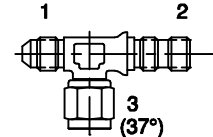
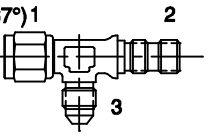
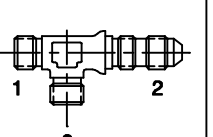
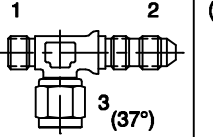
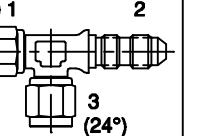
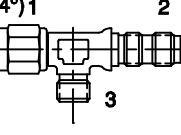
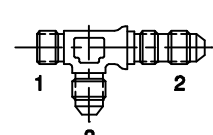
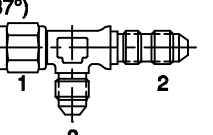
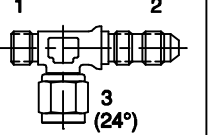
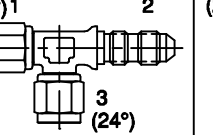
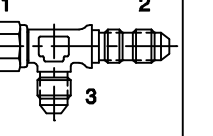
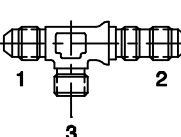
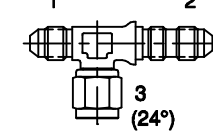
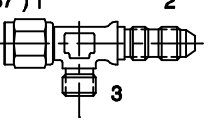
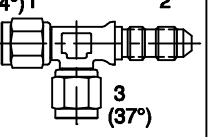
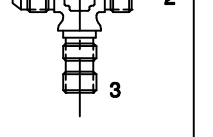
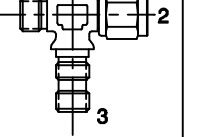
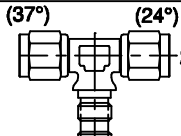
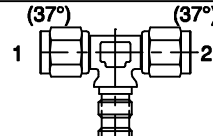
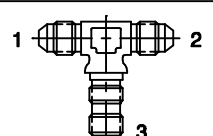
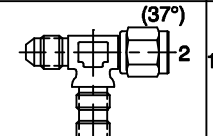
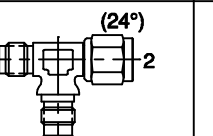
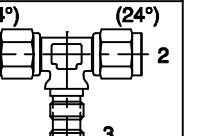
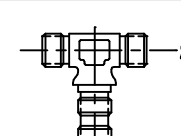
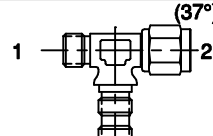
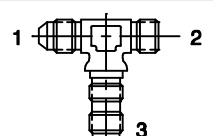
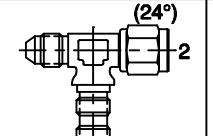
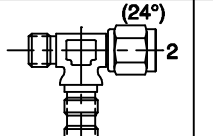
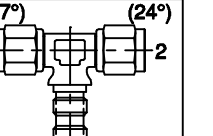
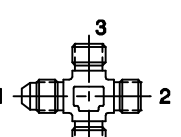
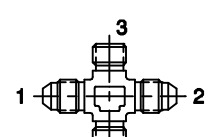
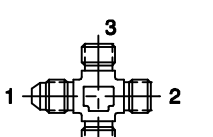
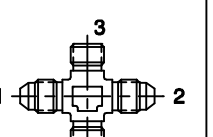
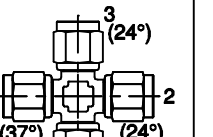
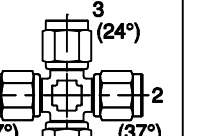
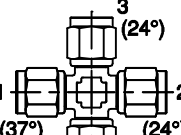
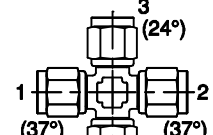
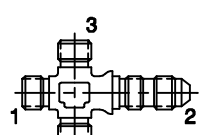
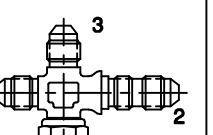
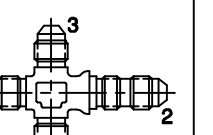
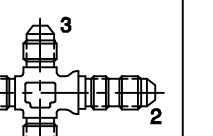
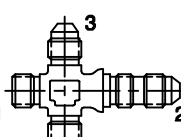
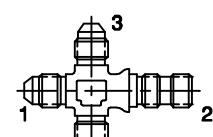
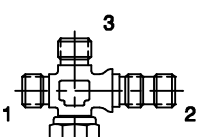
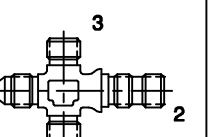
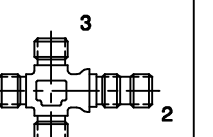
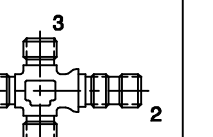
- Notes: 1. F = Female port, M = Male port, B = Bulkhead male port.  
 2. \* = A different part number assigned for reducers.  
 3. \*\* = Male Boss port has an integral metal seal.

 <b>AP981</b>	 <b>AP7138</b>	 <b>AP7114</b>	 <b>AP7106</b>	 <b>AP7233</b>	 <b>AP7111</b>
 <b>AP7145</b>	 <b>AP7234</b>	 <b>AP7411</b>	 <b>AP7412</b>	 <b>AP7413</b>	 <b>AP7414</b>
 <b>AP7424</b>	 <b>AP7415</b>	 <b>AP7308</b>	 <b>AP7416</b>	 <b>AP7387</b>	 <b>AP7417</b>
 <b>AP7419</b>	 <b>AP7420</b>	 <b>AP7418</b>	 <b>AP7421</b>	 <b>AP7422</b>	 <b>AP7423</b>
 <b>AP7648</b>	 <b>AP7649</b>	 <b>AP7650</b>	 <b>AP7651</b>	 <b>AP7656</b>	 <b>AP7657</b>
 <b>AP7658</b>	 <b>AP7659</b>	 <b>AP7667</b>	 <b>AP7668</b>	 <b>AP7669</b>	 <b>AP7672</b>
 <b>AP7673</b>	 <b>AP7674</b>	 <b>AP7596</b>	 <b>AP7680</b>	 <b>AP7681</b>	 <b>AP7682</b>
 <b>AP7684</b>	 <b>AP7685</b>	 <b>AP7687</b>	 <b>AP7688</b>	 <b>AP7565</b>	 <b>AP7698</b>
 <b>AP7699</b>	 <b>AP7036</b>	 <b>AP7038</b>	 <b>AP7039</b>	 <b>AP7660</b>	 <b>AP7514</b>

**Adapters for 24 deg. Flareless to 37 deg. Flared Fittings**

Fitting Shape	Port Sequence for Airdrome Part No. only (See Example of Part No.)				Airdrome Standard	Aerospace Standard	Military Standard
	1	2	3	4			
Straight	M	M			AP981	AS5238	MS21900 MS24405
	F	M			AP7138		
	M	F			AP7114		
	F	F			AP7106		
	M	B			AP7233		MS21923
	M	B			AP7111		
	F	B			AP7145		
	F	B			AP7234		
45 deg. Elbow	M	M			AP7411		
	F	B			AP7412		
	F	M			AP7413		
	F	F			AP7414		
	M	B			AP7424		MS24654
	F	B			AP7415		
	M	B			AP7308		
	F	B			AP7416		
90 deg. Elbow	M	M			AP7387		
	F	M			AP7417		
	F	M			AP7419		
	F	F			AP7420		
	M	B			AP7418		MS24651
	F	B			AP7421		
	M	B			AP7422		MS24652
	F	B			AP7423		
Tee	M	M	M		AP7648		
	M	M	F		AP7649		
	M	F	F		AP7650		
	M	F	M		AP7651		
	M	F	M		AP7656		
	F	M	F		AP7657		
	F	F	F		AP7658		
	F	F	M		AP7659		
	M	M	M		AP7667		
	F	F	M		AP7668		
	M	F	M		AP7669		
	M	M	F		AP7672		
	F	F	F		AP7673		
	M	F	F		AP7674		
	F	M	M		AP7596		
	M	M	M		AP7680		
	M	F	F		AP7681		
	F	F	F		AP7682		
	M	M	F		AP7684		
	M	F	F		AP7685		
	F	M	M		AP7687		
	F	F	M		AP7688		
	M	M	M		AP7565		
	M	M	F		AP7698		
	F	F	M		AP7699		
	F	F	F		AP7036		
	F	M	M		AP7038		
	M	F	F		AP7039		
	F	B	M		AP7660		
	M	B	M		AP7514		

Note: 1. F = Female port, M = Male port, B = Bulkhead port.

 AP7654	 AP7661	 AP7671	 AP7675	 AP7676	 AP7509
 AP7683	 AP7686	 AP7689	 AP7513	 AP7664	 AP7665
 AP7666	 AP7670	 AP7692	 AP7695	 AP7696	 AP7697
 AP7041	 AP7042	 AP7043	 AP7044	 AP7653	 AP7662
 AP7678	 AP7694	 AP781	 AP7040	 AP7655	 AP7663
 AP7677	 AP7679	 AP7690	 AP7691	 AP7693	 AP7037
 AP7744	 AP7745	 AP7746	 AP7747	 AP7748	 AP7749
 AP7750	 AP7751	 AP7752	 AP7753	 AP7754	 AP7755
 AP7756	 AP7757	 AP7758	 AP7759	 AP7760	 AP7761

**Adapters for 24 deg. Flareless to 37 deg. Flared Fittings**

Fitting Shape	Port Sequence for Airdrome Part No. only (See Example of Part No.)				Airdrome Standard	Aerospace Standard	Military Standard
	1	2	3	4			
Tee	M	B	F		AP7654		
	F	B	F		AP7661		
	F	B	M		AP7671		
	M	B	F		AP7675		
	F	B	F		AP7676		
	M	B	M		AP7509		
	F	B	F		AP7683		
	M	B	M		AP7686		
	F	B	M		AP7689		
	M	B	M		AP7513		
	M	B	F		AP7664		
	F	B	F		AP7665		
	F	B	M		AP7666		
	M	B	M		AP7670		
	F	B	M		AP7692		
	M	B	F		AP7695		
	F	B	F		AP7696		
	F	B	M		AP7697		
	M	B	M		AP7041		
	M	B	F		AP7042		
	F	B	M		AP7043		
	F	B	F		AP7044		
	M	M	B		AP7653		
	M	F	B		AP7662		
	F	F	B		AP7678		
	F	F	B		AP7694		
	M	M	B		AP781		
	M	F	B		AP7040		
	M	F	B		AP7655		
	F	F	B		AP7663		
	M	M	B		AP7677		
	M	F	B		AP7679		
	M	M	B		AP7690		
M	F	B		AP7691			
M	F	B		AP7693			
F	F	B		AP7037			
Cross	M	M	M	M	AP7744		
	M	M	M	M	AP7745		
	M	M	M	M	AP7746		
	M	M	M	M	AP7747		
	F	F	F	F	AP7748		
	F	F	F	F	AP7749		
	F	F	F	F	AP7750		
	F	F	F	F	AP7751		
	M	B	M	M	AP7752		
	M	B	M	F	AP7753		
	M	B	M	M	AP7754		
	M	B	M	M	AP7755		
	M	B	M	M	AP7756		
	M	B	M	M	AP7757		
	M	B	M	F	AP7758		
	M	B	M	M	AP7759		
	M	B	M	M	AP7760		
	M	B	M	M	AP7761		

Note: 1. F = Female port, M = Male port, B = Bulkhead male port.