FITTING MATERIAL SELECTION

The 4000 psi rated Adapters and Permanent Ext-Swage fittings are offered in the following materials for use with various tubing materials, fluid and operating temperature:

	MATE	RIAL AND CODING
Titanium	Code T	Indicates commercially pure Titanium per AMS4921.
Aluminum Alloy	Code D	Indicates 6061-T6 per QQ-A-225/8 except overaged to 23,000 and 33,000 psi yield strength.
COMPA		ΓΤΙΝG AND TUBING MATERIALS ube wall per MIL-F-85421.) (Tubing material)
	T Titaniu	im Alloy 3AL-2.5V per AMS4944 or similar.

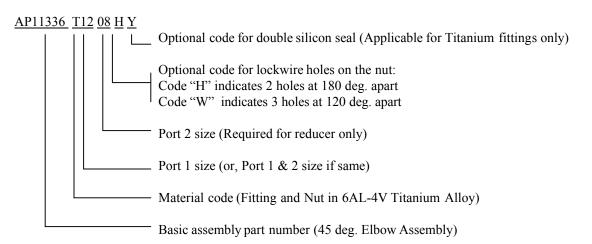
D Aluminum Alloy 6061-T6 per MIL-T-7081 or similar.

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	TUBE		FPRESSURE (psi) NG MATERIAL
SIZE	O.D.	Titanium	Alum Alloy
04	1/4	4000	1000
06	3/8	4000	1000
08	1/2	4000	1000
10	5/8	4000	1000
12	3/4	4000	1000
16	1	4000	1000
20	1-1/4	4000	1000
24	1-1/2	2000	1000

EXAMPLE OF PART NUMBER FOR ORDERING FITTINGS



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

- X Offers a compact envelope, lightweight and strong fitting joint.
- X Assembly of tube assemblies can be made in place for production and repair applications.

STANDARD PROCUREMENT SPECIFICATIONS FOR INTERNALLY SWAGED TO BEAM SEAL FITTINGS

SAE AS4459 or Military MIL-F-85421 specifications define Form, Fit, Function and Procurement requirements for Int-Swage to Beam Seal sleeves.

QUALIFICATION AND APPROVAL STATUS

Airdrome fittings were qualified per AS4459 and MIL-F-85421 specifications and are approved for use in various military, space and commercial programs at AIDC, Allison, British Aerospace, Boeing, Lockheed, Northrop/Grumman, Sikorsky, etc.

FITTING MATERIAL SELECTION

The fittings 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 AMS4965.
Cres	Code N Code P	Indicates Inconel 718 per AMS5663. Indicates 17-4PH, H-1075 cond. per AMS5643.

COMPATIBILITY OF FITTIN	G AND TUBING MATERIALS
(Recommended tube wall per	AS4459 and MIL-F-85421)
(Fitting Material)	(Tubing material)

Ti Alloy	Titanium Alloy 3AL-2.5V per AMS4944 or,
	Cres 21-6-9 per AMS5661 or,
	Cres 304 1/8Hd. per MIL-T-6845 or,
	Aluminum Alloy 6061-T6 per MIL-T-7081 or similar.
Cres	Cres 21-6-9 per AMS5661 or,
	Cres 304 1/8Hd. per MIL-T-6845 or similar.
	_

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:

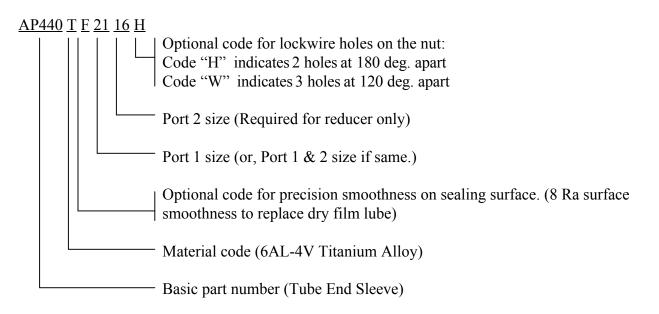
FITTING	TUBE	OPERATING P PER FITTING	· · · · · · · · · · · · · · · · · · ·
SIZE	O.D.	Ti Alloy	Cres
03	3/16	5000	3000
04	1/4	5000	3000
05	5/16	5000	3000
06	3/8	5000	3000
08	1/2	5000	3000
10	5/8	5000	3000
12	3/4	5000	3000
14	7/8	4000	3000
16	1	4000	3000
20	1-1/4	4000	3000

Note: Beam Seal port size callout for tube O.D. 1-1/4 shall be 21. (See example of part number.)

TOOLING

Airdrome fittings are qualified and fully compatible to be swaged by Resistoflex swage tooling. Thus, redundant procurement of Airdrome tooling can be eliminated to benefit our focus on quick fitting deliveries.

EXAMPLE OF PART NUMBER FOR ORDERING INTERNALLY SWAGED TO BEAM SEAL FITTINGS



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

AP642 & AP442					45-	
AP642 & AP442		AP6	40 & AP440		AP64	41 & AP441
1 - 2		1 2			1-[
AP644 & AP444		AP6	43 & AP443		AP64	45 & AP445
Int-Swage to			quivalent Indust	try Standar	ds	
	Port Se	Sleeve and E quence for Part No. only	quivalent Indust Airdrom e	try Standar Aerospace		
Int-Swage to Fitting Shape	Port Se Aordrome (See Examp	quence for Part No. only ple of Part No.)	Airdrome			
Fitting Shape	Port Se Aordrome (See Exam) 1	quence for Part No. only ple of Part No.) 2	Airdrom e Standard	Aerospace Standard		
Fitting Shape Straight	Port Se Aordrome (See Exam 1 F	quence for Part No. only ble of Part No.) 2 S	Airdrom e Standard AP642 & AP442	Aerospace Standard AS4203		
Fitting Shape Straight (Short sleeves	Port Se Aordrome (See Exam) 1 F M	quence for Part No. only ble of Part No.) 2 S S	Airdrom e Standard AP642 & AP442 AP640 & AP440	Aerospace Standard AS4203		
Fitting Shape Straight (Short sleeves for production)	Port Se Aordrome (See Exam) 1 F M B	quence for Part No. only ble of Part No.) 2 S S S S	Airdrom e Standard AP642 & AP442 AP640 & AP440 AP641 & AP441	Aerospace Standard AS4203 AS4216		
Fitting Shape Straight (Short sleeves for production) Straight	Port Se Aordrome (See Examp 1 F M B F	quence for Part No. only ble of Part No.) 2 S S S S S S	Airdrom e Standard AP642 & AP442 AP640 & AP440 AP641 & AP441 AP644 & AP444	Aerospace Standard AS4203 AS4216		
Fitting Shape Straight (Short sleeves for production)	Port Se Aordrome (See Exam) 1 F M B	quence for Part No. only ble of Part No.) 2 S S S S	Airdrom e Standard AP642 & AP442 AP640 & AP440 AP641 & AP441 AP644 & AP444 AP643 & AP443	Aerospace Standard AS4203 AS4216		
Fitting Shape Straight (Short sleeves for production) Straight (Long sleeves for repair) Notes: 1. F =	Port Se Aordrome (See Exam) 1 F M B F M B F emale port,	quence for Part No. only ole of Part No.) 2 S S S S S M = Male port	Airdrom e Standard AP642 & AP442 AP640 & AP440 AP641 & AP441 AP644 & AP444	Aerospace Standard AS4203 AS4216 ale port.		

STANDARD PROCUREMENT SPECIFICATION FOR INTERNALLY SWAGED TO FLARELESS FITTINGS

SAE AS4459, Military MIL-F-18280 and Boeing BPS-F-125 specifications define Form, Fit, Function and Procurement requirements for Int-Swage to Flareless sleeves.

QUALIFICATION AND APPROVAL STATUS

Airdrome fittings were qualified per necessary portions of AS4459, MIL-F-18280 and BPS-F-125 requirements. The fittings are approved for use in various military and commercial programs at Boeing, Interfast, Northrop/Grumman, Sikorsky, Tri-Star, Unirex, etc.

FITTING MATERIAL SELECTION

The fittings are made of Cres for use with various tubing materials, fluid and operating temperature.

MATERIAL AND CODING

Const	C. I. II	Indiantes 15 EDU non AMOS(50
Cres	Code H	Indicates 15-5PH per AMS5659

COMPATIBILITY OF FITTING AND TUBING MATERIALS (Recommended tube wall per AS4459 and MIL-F-18280) (Fitting Material) (Tubing material)

Cres

Cres 21-6-9 per AMS5661 or, Cres 304 1/8Hd. per MIL-T-6845 or similar.

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 Cres
04	1/4	3000
05	5/16	3000
06	3/8	3000
08	1/2	3000
10	5/8	3000
12	3/4	3000
14	7/8	3000
16	1	3000

TOOLING

Airdrome fittings are qualified and fully compatible to be swaged by Sierracin-Harrison or Ward & Garrison swage tooling. This will benefit Airdrome customers to receive our focus on quick fitting deliveries.

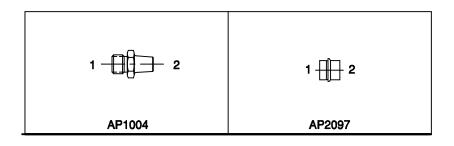
EXAMPLE OF PART NUMBER FOR ORDERING INTERNALLY SWAGED TO FLARELESS FITTINGS

AP2097H12 Size.

Material code (15-5 PH Cres)

Basic part number (Tube End Sleeve)

For fitting materials and sizes not listed, please contact Airdrome Parts Co.



Int-Swage to Flareless Sleeve					
	Port Sequence for				
Fitting Shape	Airdrome	e Part No.	Airdrome		
	(See Exampl	e of Part No.)	Standard		
	1				
Straight	M S		AP1004		
	F	S	AP2097		
Note: 1. F = Female port, M = Male port.					