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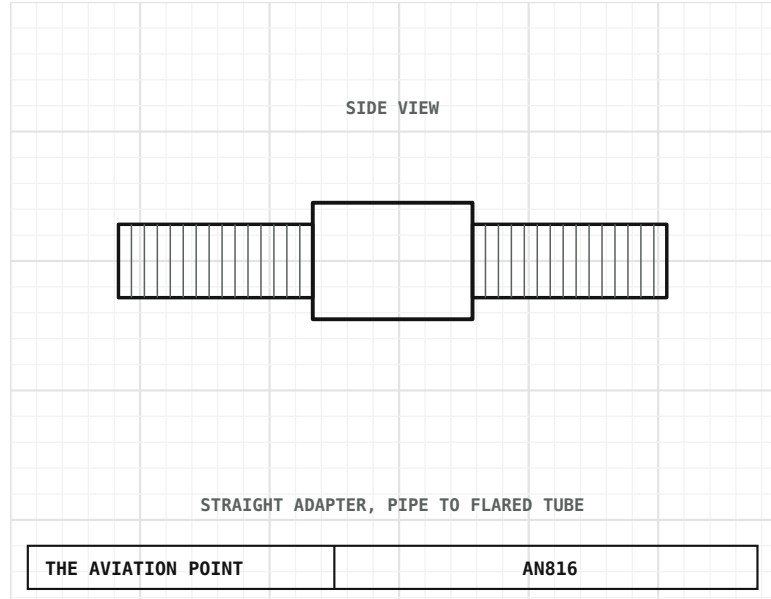
The Aviation Point

AN816 — straight adapter, pipe to flared tube

Adapter, Straight, Pipe to 37° Flared Tube: dimensions by dash size and part numbers, as listed in a distributor catalogue.



AN816



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Fitting, adapter, straight, pipe to 37° flared tube
Status	Check the current issue of the standard before design use.

Dimensions by size (1 of 2)

Dimension, in	-2	-3	-4	-4-4	-5	-5-4	-6-2	-6	-6-6	-6-8	-7	-8	-10
OD — Tube O.D.	1/8	3/16	1/4	1/4	5/16	5/16	3/8	3/8	3/8	3/8	1/2	1/2	5/8
P — Pipe thread P (AMPT) (+.016)	.125	.125	.125	.250	.125	.250	.125	.250	.375	.500	.250	.375	.500
T — Thread T (ref.)	.3125-24	.3750-24	.4375-20	.4375-20	.5000-20	.5000-20	.5625-18	.5625-18	.5625-18	.5625-18	.7500-16	.7500-16	.8750-14
G — G	.438	.438	.500	.563	.562	.563	.625	.625	.750	.875	.813	.813	.938
Gt — G tolerance	+.003/-.004	+.003/-.004	+.003/-.004	+.004	+.004	+.004	+.004	+.004	+.004	+.004	+.004	+.004	+.004
M — M (+.016)	1.016	1.047	1.109	1.375	1.141	1.375	1.187	1.375	1.406	1.625	1.500	1.500	1.828

Dimensions by size (2 of 2)

Dimension, in	-10-12	-12-8	-12	-12-16	-16-12	-16
OD — Tube O.D.	5/8	3/4	3/4	3/4	1	1
P — Pipe thread P (AMPT) (+.016)	.750	.500	.750	1.000	.750	1.000
T — Thread T (ref.)	.8750-14	1.0625-12	1.0625-12	1.0625-12	1.3125-12	1.3125-12
G — G	1.125	1.125	1.125	1.375	1.375	1.375
Gt — G tolerance	+.005	+.005	+.005	+.005	+.005	+.005
M — M (+.016)	1.844	1.953	1.953	2.187	2.031	2.219

Dimensions in inches as tabulated in the catalogue listing; the standard governs. Blank cells: not stated in the listing.

Part numbers

1/8 1 part number

Part no.	Tube O.D.	Pipe thread P
AN816-2	1/8	.125

3/16 1 part number

Part no.	Tube O.D.	Pipe thread P
AN816-3	3/16	.125

1/4 2 part numbers

Part no.	Tube O.D.	Pipe thread P
AN816-4	1/4	.125
AN816-4-4	1/4	.250

5/16 2 part numbers

Part no.	Tube O.D.	Pipe thread P
AN816-5	5/16	.125
AN816-5-4	5/16	.250

3/8 4 part numbers

Part no.	Tube O.D.	Pipe thread P
AN816-6-2	3/8	.125
AN816-6	3/8	.250
AN816-6-6	3/8	.375
AN816-6-8	3/8	.500

1/2 2 part numbers

Part no.	Tube O.D.	Pipe thread P
AN816-7	1/2	.250
AN816-8	1/2	.375

5/8 2 part numbers

Part no.	Tube O.D.	Pipe thread P
AN816-10	5/8	.500
AN816-10-12	5/8	.750

3/4 3 part numbers

Part no.	Tube O.D.	Pipe thread P
AN816-12-8	3/4	.500
AN816-12	3/4	.750
AN816-12-16	3/4	1.000

1 2 part numbers

Part no.	Tube O.D.	Pipe thread P
AN816-16-12	1	.750
AN816-16	1	1.000

How to read the part number

Part	Meaning
Format	AN816-<dash><material>
D	Material: Aluminum
(none)	Material: Steel
J	Material: Corrosion resistant steel
Example	AN816-4 — Steel, 1/4 in tube, 1/8 pipe thread

Notes

- Dash number: tube size alone (pipe thread 1/8 or the size shown), or tube size then pipe size in sixteenths where it differs (6-8 = 3/8 tube, 1/2 pipe).
- Cells printed once across several rows in the listing are repeated on each row they span.
- Rows were resolved from the page image; G for -10-12 to -16 and M for -7/-8 and -12-8/-12 are single cells spanning rows.

SOURCES · AN816 — Adapter, Straight, Pipe to 37° Flared Tube

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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