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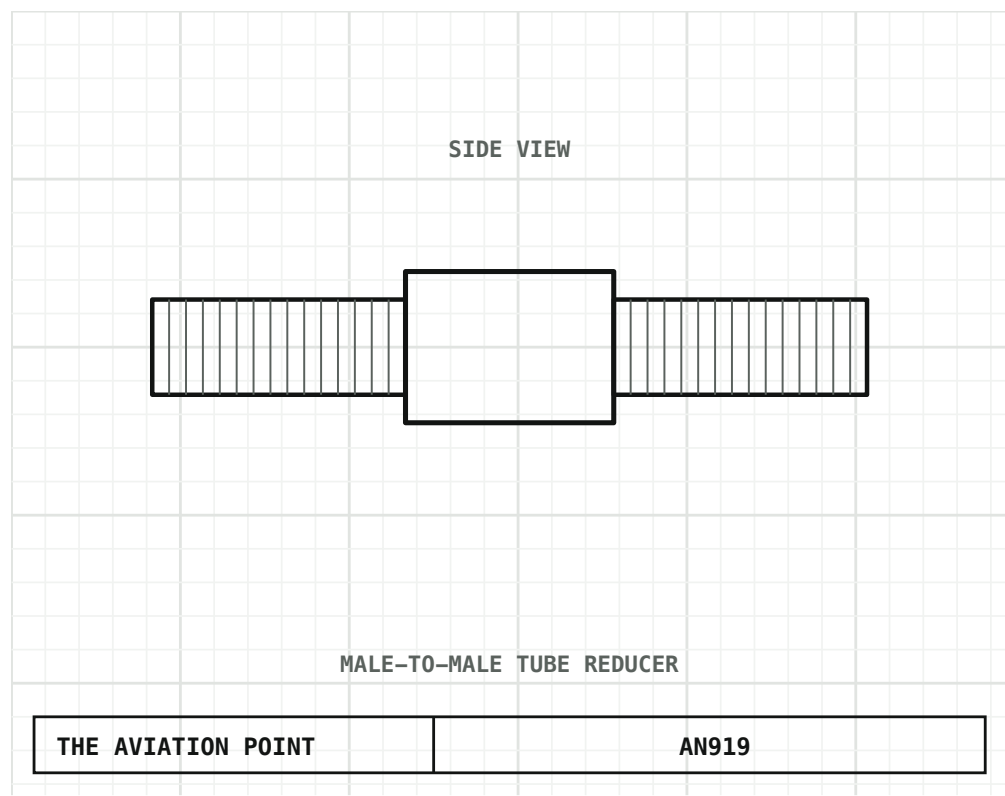
The Aviation Point

AN919 — male-to-male tube reducer

Reducer, Male to Male, External Thread Flared Tube 37°: dimensions by dash size and part numbers, as listed in a distributor catalogue.



AN919



Engineering drawing · dimensions in inches

Specification

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

Dimensions by size

Dimension, in	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11
OD1 — Large end tube O.D.	3/16	1/4	1/4	5/16	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2
T — Large end thread T (ref.)	3/8-24	7/16-20	7/16-20	1/2-20	9/16-18	9/16-18	9/16-18	9/16-18	3/4-16	3/4-16	3/4-16	3/4-16
OD2 — Small end tube O.D.	1/8	1/8	3/16	1/4	1/8	3/16	1/4	5/16	1/8	3/16	1/4	5/16
R — Small end thread R (ref.)	5/16-24	5/16-24	3/8-24	7/16-20	5/16-24	3/8-24	7/16-20	1/2-20	5/16-24	3/8-24	7/16-20	1/2-20
E — E	.625	.688	.688	.750	.813	.813	.813	.813	1.000	1.000	1.000	1.000
W — W	1-11/64	1-1/4	1-9/32	1-23/64	1-19/64	1-21/64	1-13/32	1-13/32	1-27/64	1-29/64	1-17/32	1-17/32
S — S	5/8	11/16	37/64	39/64	5/8	5/8	5/8	5/8	23/32	23/32	23/32	23/32

Dimension, in	-12	-13	-14	-15	-16	-17	-18	-19	-20	-21	-22	-23
OD1 — Large end tube O.D.	1/2	5/8	5/8	5/8	3/4	3/4	3/4	3/4	3/4	1	1	1
T — Large end thread T (ref.)	3/4-16	7/8-14	7/8-14	7/8-14	1-1/16-12	1-1/16-12	1-1/16-12	1-1/16-12	1-1/16-12	1-5/16-12	1-5/16-12	1-5/16-12
OD2 — Small end tube O.D.	3/8	1/4	3/8	1/2	1/4	5/16	3/8	1/2	5/8	1/4	5/8	3/4
R — Small end thread R (ref.)	9/16-18	7/16-20	9/16-18	3/4-16	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	7/16-20	7/8-14	1-1/16-12
E — E	1.000	1.125	1.125	1.125	1.375	1.375	1.375	1.375	1.375	1.625	1.625	1.625
W — W	1-17/32	1-21/32	1-21/32	1-3/4	1-51/64	1-51/64	1-51/64	1-57/64	2	1-27/32	2-3/64	2-5/32
S — S	23/32	51/64	51/64	51/64	57/64	57/64	57/64	57/64	57/64	57/64	57/64	57/64

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

Part numbers

3/16 1 part number

Part no.	Large end tube O.D.	Small end tube O.D.
AN919-0	3/16	1/8

1/4 2 part numbers

Part no.	Large end tube O.D.	Small end tube O.D.
AN919-1	1/4	1/8
AN919-2	1/4	3/16

5/16 1 part number

Part no.	Large end tube O.D.	Small end tube O.D.
AN919-3	5/16	1/4

3/8 4 part numbers

Part no.	Large end tube O.D.	Small end tube O.D.
AN919-4	3/8	1/8
AN919-5	3/8	3/16
AN919-6	3/8	1/4
AN919-7	3/8	5/16

1/2 5 part numbers

Part no.	Large end tube O.D.	Small end tube O.D.
AN919-8	1/2	1/8
AN919-9	1/2	3/16
AN919-10	1/2	1/4
AN919-11	1/2	5/16
AN919-12	1/2	3/8

5/8 3 part numbers

Part no.	Large end tube O.D.	Small end tube O.D.
AN919-13	5/8	1/4
AN919-14	5/8	3/8
AN919-15	5/8	1/2

3/4 5 part numbers

Part no.	Large end tube O.D.	Small end tube O.D.
AN919-16	3/4	1/4
AN919-17	3/4	5/16
AN919-18	3/4	3/8
AN919-19	3/4	1/2
AN919-20	3/4	5/8

1 3 part numbers

Part no.	Large end tube O.D.	Small end tube O.D.
AN919-21	1	1/4
AN919-22	1	5/8
AN919-23	1	3/4

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

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How to read the part number

Part	Meaning
Format	AN919-<dash><material>
D	Material: Aluminum
(none)	Material: Steel
J	Material: Corrosion resistant steel
Example	AN919-4 — Steel, dash 4

Notes

- Cells printed once across several rows in the listing are repeated on each row they span.
- To confirm: S for -2 and -3 reads 37/64 and 39/64, below S of -1 (11/16); legible in the image but out of sequence.

SOURCES · AN919 — Reducer, Male to Male, External Thread Flared Tube 37°

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/fittings/an919/

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

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