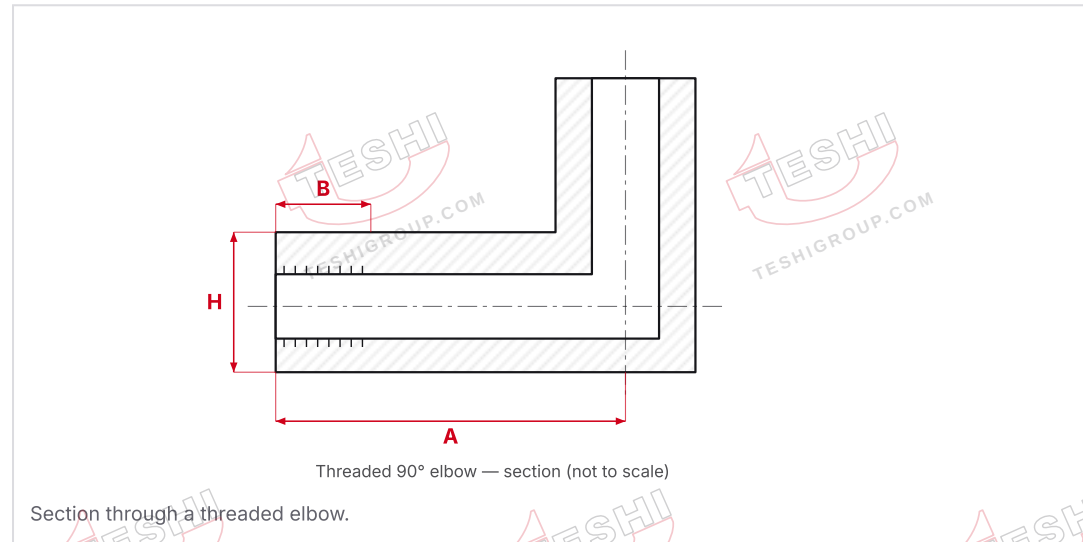


DIMENSIONAL STANDARD · ASME B16.11

ASME B16.11 Threaded Fitting Dimensions

Threaded elbow, tee, cross, coupling, cap and plug dimensions, Class 2000, 3000 and 6000.

Dimensions of **ASME B16.11 forged threaded (screwed) fittings** in millimetres for 90° and 45° elbows, tees, crosses, couplings, half couplings, caps, plugs and bushings in Class 2000, 3000 and 6000, from NPS ½" to 4".



- A** Centre to end — 90° elbow, tee and cross
- C** Centre to end — 45° elbow
- H** Outside diameter of band
- B** Minimum length of thread
- L2** Minimum effective thread length
- W** End to end — full coupling
- P** End to end — half coupling ($W \div 2$)
- D** Outside diameter of coupling
- G** End to end — cap

Threaded elbows, tees and crosses (mm)

NPS in	DN	A 2000	A 3000	A 6000	C 45° 2000	C 45° 3000	C 45° 6000	H 2000	H 3000	H 6000	B Thread length	L2 Effective thread
½"	6	21	21	25	17	17	19	22	22	25	6.4	6.7
¼"	8	21	25	28	17	19	22	22	25	33	8.1	10.2
¾"	10	25	28	33	19	22	25	25	33	38	9.1	10.4
½"	15	28	33	38	22	25	28	33	38	46	10.9	13.6
¾"	20	33	38	44	25	28	33	38	46	56	12.7	13.9
1"	25	38	44	51	28	33	35	46	56	62	14.7	17.3
1¼"	32	44	51	60	33	35	43	56	62	75	17.0	18.0

NPS in	DN	A 2000	A 3000	A 6000	C 45° 2000	C 45° 3000	C 45° 6000	H 2000	H 3000	H 6000	B Thread length	L2 Effective thread
1½"	40	51	60	64	35	43	44	62	75	84	17.8	18.4
2"	50	60	64	83	43	44	52	75	84	102	19.0	19.2
2½"	65	76	83	95	52	52	64	92	102	121	23.6	28.9
3"	80	86	95	106	64	64	79	109	121	146	25.9	30.5
4"	100	106	114	114	79	79	79	146	152	152	27.7	33.0

Threaded couplings, caps, plugs and bushings (mm)

NPS in	DN	W Full coupling	P Half coupling	D 3000	D 6000	G Cap, 3000	G Cap, 6000	Square head plug Min. length	Hex plug / bushing Across flats
½"	6	32	16.0	16	22	19	—	10	11
¼"	8	35	17.5	19	25	25	27	11	16
⅜"	10	38	19.0	22	32	25	27	13	18
½"	15	48	24.0	28	38	32	33	14	22
¾"	20	51	25.5	35	44	37	38	16	27
1"	25	60	30.0	44	57	41	43	19	36
1¼"	32	67	33.5	57	64	44	46	21	46
1½"	40	79	39.5	64	76	44	48	21	50
2"	50	86	43.0	76	92	48	51	22	65
2½"	65	92	46.0	92	108	60	64	27	75
3"	80	108	54.0	108	127	65	68	28	90
4"	100	121	60.5	140	159	68	75	32	115

Fitting class and matching pipe schedule

Type	Class	Pipe schedule
Threaded	2000	Sch 80 (XS)
Threaded	3000	Sch 160
Threaded	6000	XXS
Socket-welding	3000	Sch 80 (XS)

Type	Class	Pipe schedule
Socket-welding	6000	Sch 160
Socket-welding	9000	XXS

Notes

- Dimensions are in millimetres unless stated otherwise.
- The half-coupling length P is calculated as half the full-coupling length W.
- A dash means the standard does not list that size in that class.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions and properties before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions.

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