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Metallic adaptors and reducers - AB and BB

Dimensions

Type AB

Metallic adaptors are available for up to two step sizing, e.g. M20 male x M32 female

Other sizes / threads are available upon request

A	B	C	ØD	E	F	G	H
Male metric (6g)	Female metric (6H)	A/F	Bore	Thread length	Thread depth	Ref	Hex wall
M12	M12	159	70	15.0	17.0	21.0	4.0
	M16	191	70	15.0	17.0	21.0	4.0
M16	M16	191	104	15.0	17.0	21.0	4.0
	M20	240	104	15.0	17.0	21.0	4.0
	M25	305	104	15.0	17.0	21.0	4.0
M20	M20	240	144	15.0	17.0	21.0	4.0
	M25	305	144	15.0	17.0	21.0	4.0
	M32	376	144	15.0	17.0	22.0	5.0
M25	M25	305	194	15.0	17.0	21.0	4.0
	M32	37.6	19.4	15.0	17.0	22.0	5.0
M32	M32	37.6	26.8	15.0	17.0	22.0	5.0
	M40	47.2	26.8	15.0	17.0	22.0	5.0
	M50	55.9	26.8	15.0	17.0	22.0	5.0
M40	M40	47.2	33.5	15.0	17.0	22.0	5.0
	M50	55.9	33.5	15.0	17.0	22.0	5.0
M50	M50	55.9	42.8	15.0	17.0	22.0	5.0
	M63	70.1	42.8	15.0	17.0	22.0	5.0
M63	M63	70.1	54.4	15.0	17.0	22.0	5.0
	M75	80.0	54.4	15.0	17.0	22.0	5.0
M75	M75	80.0	66.7	15.0	17.0	22.0	5.0

Type BB

Other sizes / threads are available upon request

A	B	C	D	E	F
Male metric (6g)	Female metric (6H)	A/F	Thread length	Hex length	Total length
M16	M12 & BELOW	19.1	15.0	4.0	19.0
M20	M16 & BELOW	24.0	15.0	4.0	19.0
M25	M20 & BELOW	27.9	15.0	4.0	19.0
M32	M25 & BELOW	37.5	15.0	4.0	19.0
M40	M32 & BELOW	47.2	15.0	5.0	20.0
M50	M40 & BELOW	55.9	15.0	6.0	21.0
M63	M50 & BELOW	70.1	15.0	7.0	22.0
M75	M63 & BELOW	80.0	15.0	8.0	23.0
M80	M63 & BELOW	90.0	20.0	9.0	29.0
M90	M80 & BELOW	95.0	20.0	10.0	30.0
M100	M90 & BELOW	110.0	20.0	11.0	31.0

Metallic adaptors and reducers - Product coding

DIGIT 1+2		CODE
Product	Description	
ADAPTORS	M-F HEX	AB
REDUCERS	M-F HEX	BB

DIGIT 3	CODE
MATERIAL	
BRASS	A
ALUMINUM	B
STEEL	C
STAINLESS STEEL	E

DIGIT 8 (APPROVAL)	CODE
Exd/Exe	Y
Nylon Exe only	E
None	F

DIGIT 9 (UNDERCUT)	CODE
Yes	U
None	X or Blank

DIGIT 10 (PLATING)	CODE
None	Blank
Nickel	N
Zinc	Z

DIGIT 4+5 (Male thread)						DIGIT 6+7 (Female thread)							
THREAD REFERENCE TABLE													
ISOMETRIC		NPT		BSPT		BSPP		NPSM		PG		ET	
SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE
M12	04	½"	42	½"	52	½"	62	½"	72	PG7	20	¾"	31
M16	11	¾"	43	¾"	53	¾"	63	¾"	73	PG9	21	¾"	32
M20	12	1"	44	1"	54	1"	64	1"	74	PG11	22	1"	33
M22	07	1¼"	45	1¼"	55	1¼"	65	1¼"	75	PG13,5	23	1¼"	34
M24	08	1½"	46	1½"	56	1½"	66	1½"	76	PG16	24	1½"	35
M25	13	2"	47	2"	57	2"	67	2"	77	PG21	25	2"	36
M28	09	2½"	48	2½"	58	2½"	68	2½"	78	PG29	26	2½"	37
M32	14	3"	49	3"	59	3"	69	3"	79	PG36	27	3"	38
M38	05	3½"	86	4"	79	4"	89	3½"	90	PG42	28		
M40	15	4"	87	SPECIAL	50	SPECIAL	60	4"	70	PG48	29		
M50	16	SPECIAL	40					SPECIAL	70				
M63	17												
M75	18												
M80	80												
M90	81												
M100	82												
SPECIAL	10												

NOTE: Male thread is always quoted First (Digit 4+5) followed by the Female thread (Digits 6+7)
Other threads are available, please consult the sales department
Digit 8 Approval
Digit 9: U = Undercut Otherwise Blank or use X if Plating is required
Digit 10 (Plating) is Blank if no plating is required

EXAMPLES							
Product	Material	Male thread	Female thread	Approval	Special	Plating	
Adaptor	Brass	½" NPT	M20	Exd/Exe	None	Nickel	Part Number
AB	A	42	12	Y	Blank	N	ABA4212YN
Reducer	Stainless	M50	1"NPT	Exd/Exe	None	None	Part Number
BB	E	16	44	Y	Blank	Blank	BBE1644Y

Metallic adaptors and reducers – Thread selection / dimensions

Isometric to BS 3643:1981

Size	Major diameter (mm)	Threads per inch	Pitch
16mm (M16)	15.968	1693	150
20mm (M20)	19.968	1693	150
25mm (M25)	24.968	1693	150
32mm (M32)	31.968	1693	150
40mm (M40)	39.968	1693	150
50mm (M50)	49.968	1693	150
63mm (M63)	62.968	1693	150
75mm (M75)	74.968	1693	150

National Pipe Thread to ANSI / ASME: 1983

Size	Major diameter (mm)	Threads per inch	Pitch
½" NPT	1028	2700	094
¾" NPT	1372	1800	141
1" NPT	1715	1800	141
1½" NPT	2134	1400	181
2" NPT	2667	1400	181
2½" NPT	3340	1150	221
3" NPT	4216	1150	221
3½" NPT	4826	1150	221
4" NPT	6033	1150	221
4½" NPT	7303	800	318
5" NPT	8890	800	318
5½" NPT	11430	800	318

British Standard Pipe to BS 21:1985

Size	Major diameter (mm)	Threads per inch	Pitch
½" BSP P	9736	2800	091
¾" BSP P	1316	1900	134
1" BSP P	1666	1900	134
1½" BSP P	2096	1400	181
2" BSP P	2644	1400	181
2½" BSP P	3325	1100	231
3" BSP P	4191	1100	231
3½" BSP P	4780	1100	231
4" BSP P	5981	1100	231
4½" BSP P	7518	1100	231
5" BSP P	8788	1100	231
5½" BSP P	11303	1100	231

Other sizes and threads are available including ET, PG, BSPT and NPSM, contact Customer Services for details.

Certified products - Raxton adaptors now available in 2 step format

Adaptors Reducers Not certified

		Female thread																	
		M16	M20	M25	M32	M40	M50	M63	M75	½" NPT/BSP	¾" NPT/BSP	1" NPT/BSP	1½" NPT/BSP	2" NPT/BSP	2½" NPT/BSP	3" NPT/BSP	4" NPT		
Male thread	M16																		
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	M32																		
	M40																		
	M50																		
	M63																		
	M75																		
	½" NPT																		
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