

Bolt Technical Specifications

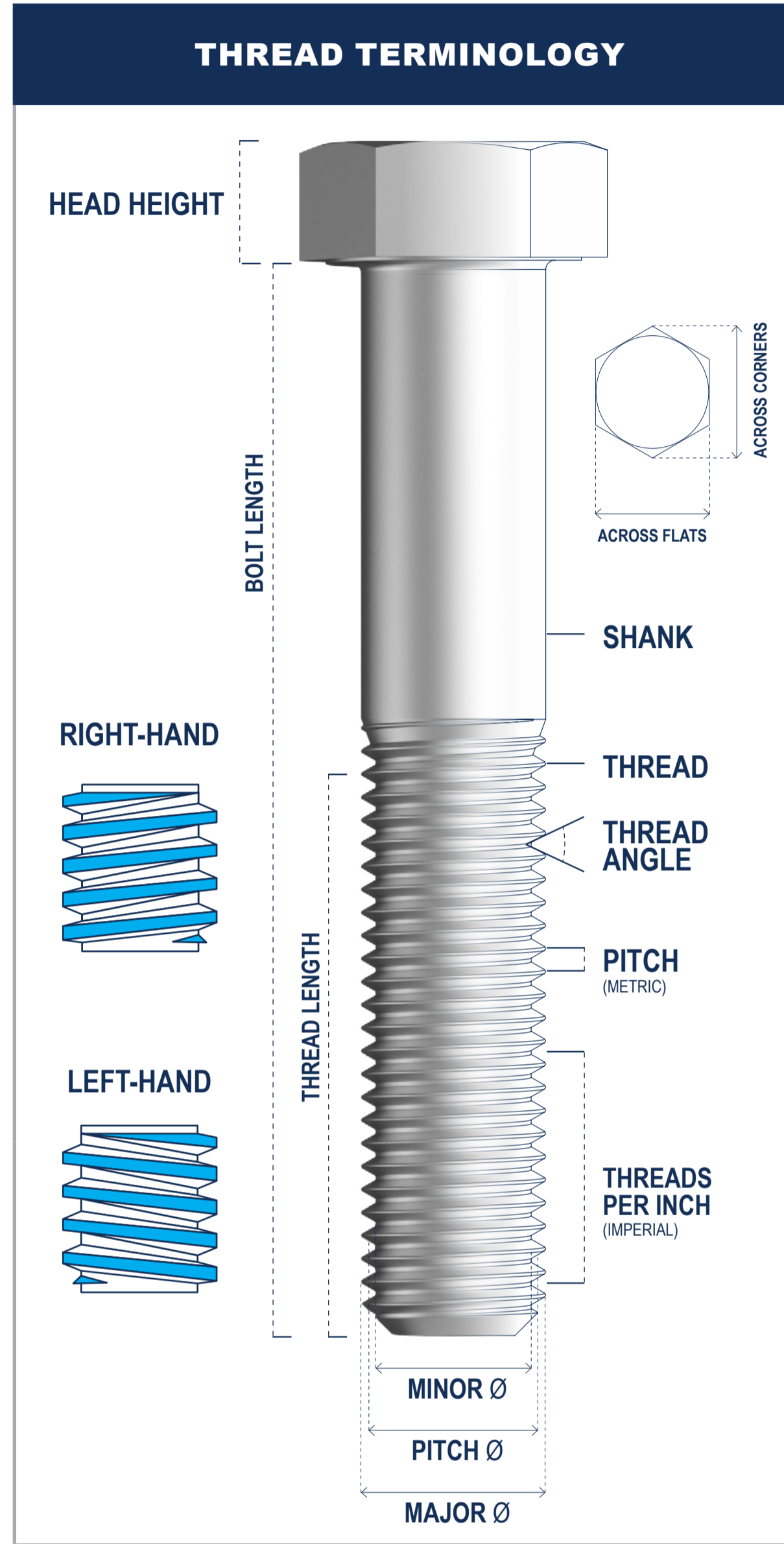


BOLT HEAD MARKINGS			
Head Marking	Strength and Material	Bolt Type	Standard
	CLASS 4.6 Low or medium Carbon Steel	CUP HEAD SQUARE NECK	AS/NZS 1390
	CLASS 4.6 Low or medium Carbon Steel	HEX HEAD	AS 1111.1 / .2
	CLASS 4.6 Low or medium Carbon Steel	HEX HEAD COACH SCREWS	AS/NZS 1393
	CLASS 8.8 Medium Carbon Steel, quenched and tempered	HEX HEAD	AS/NZS 1252:2016 K0
	CLASS 8.8 Medium Carbon Steel, quenched and tempered	HEX HEAD	AS 1110.1
	CLASS 10.9 Alloy Steel, quenched and tempered	HEX HEAD	AS 1110.1
	CLASS 10.9 Alloy Steel, quenched and tempered	HEX HEAD	EN 14399-3 K2
	CLASS 12.9 Alloy Steel, quenched and tempered	HEX HEAD	AS 4291.1
	CLASS 50 304 Stainless Steel	HEX HEAD	DIN 931 DIN 933
	CLASS 70 304 Stainless Steel	HEX HEAD	
	CLASS 50 316 Stainless Steel	HEX HEAD	
	CLASS 70 316 Stainless Steel	HEX HEAD	
	CLASS 80 316 Stainless Steel	HEX HEAD	
	GRADE 2 Low or medium Carbon Steel	BSW HEX HEAD	AS/NZS 2451
	GRADE 5 Medium Carbon Steel, quenched and tempered	UNC/UNF HEX HEAD	AS/NZS 2465
	GRADE 8 Medium Carbon Alloy, quenched and tempered	UNC/UNF HEX HEAD	
	Class 8.8 High Molybdenum – G316L	BUMAX®	
	Class 10.9 High Molybdenum – G316L		

SPANNER / SOCKET SIZE					
Bolt Size	AS1110/1 - ISO 4014	AS1252.1	DIN931/3/4	DIN6921	JIS B1189
M1.6	3.2	-	3.2	-	-
M2	4	-	4	-	-
M2.5	5	-	5	-	-
M3	5.5	-	5.5	-	-
M4	7	-	7	-	-
M5	8	-	8	8	7
M6	10	-	10	10	8
M7	11	-	11	11	-
M8	13	-	13	13	10
M10	16	-	17	15	13
M12	18	21	19	16	15
M14	21	-	22	18	18
M16	24	27	24	21	21
M18	27	-	27	-	-
M20	30	32	30	27	-
M22	34	36	32	-	-
M24	36	41	36	-	-
M27	41	46	41	-	-
M30	46	50	46	-	-
M33	50	-	50	-	-
M36	55	60	55	-	-
M39	60	-	60	-	-
M42	65	-	65	-	-
M45	70	-	70	-	-
M48	75	-	75	-	-
M52	80	-	80	-	-
M56	85	-	85	-	-
M60	90	-	90	-	-
M64	95	-	95	-	-
M68	100	-	100	-	-
M72	105	-	105	-	-
M76	110	-	110	-	-
M80	115	-	115	-	-
M85	120	-	120	-	-
M90	130	-	130	-	-
M95	135	-	135	-	-
M100	145	-	145	-	-
M105	150	-	150	-	-
M110	155	-	155	-	-

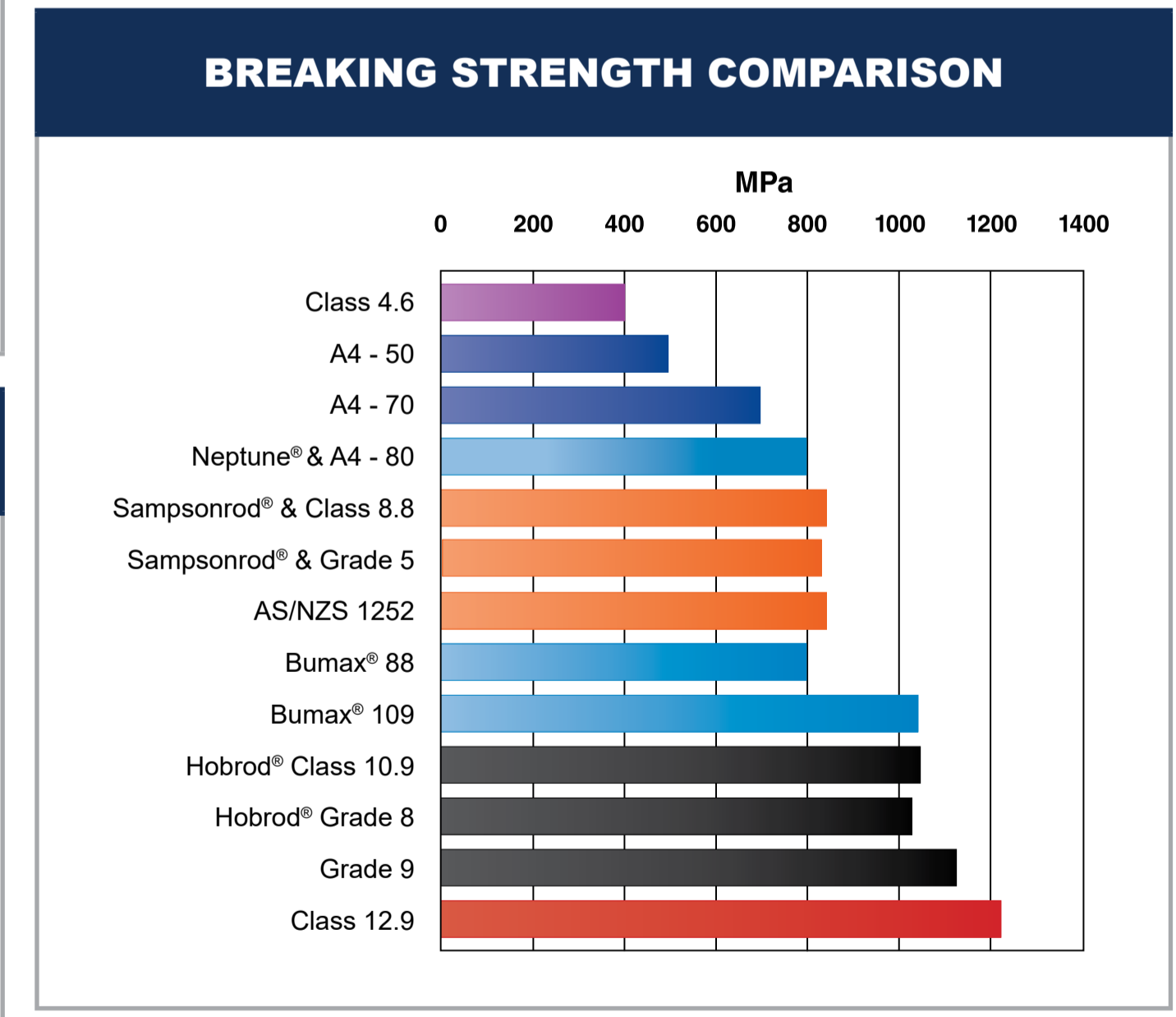
Bolt Size	AS2465 - ANSIB18.2.1
1/4	7/16
5/16	1/2
3/8	9/16
7/16	5/8
1/2	3/4
9/16	13/16
5/8	15/16
3/4	1 - 1/8
7/8	1 - 5/16

IMPERIAL	1	1 - 1/8	1 - 1/4	1 - 3/8	1 - 1/2	1 - 3/4	1 - 7/8	2	2 - 1/4	2 - 1/2	2 - 3/4	3	3 - 1/2	3 - 3/4	4
10	1 - 1/2	1 - 11/16	1 - 7/8	2 - 1/16	2 - 1/4	2 - 5/8	2 - 13/16	3	3 - 3/8	3 - 3/4	4 - 1/8	4 - 1 2	5 - 1/4	5 - 5/8	6



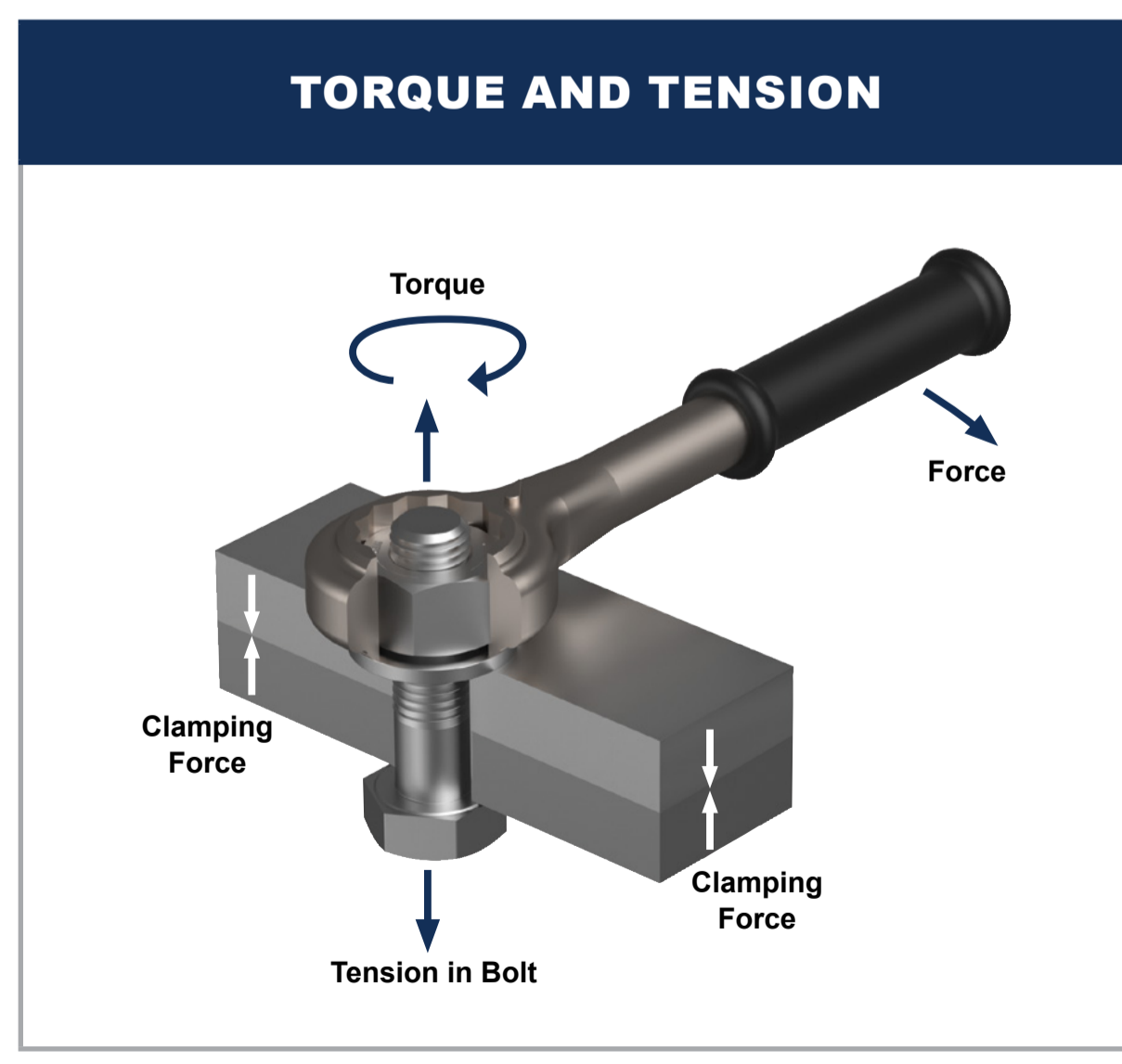
PITCH AND THREAD

Size	Pitch (mm)			Threads Per Inch							
	Coarse	Fine	Extra Fine	UNC	UN8	UNF	BSW	BSF			
M1.6	-	#0	0.35	-	-	-	-	80	-	-	
M2	-	#1	0.4	-	-	-	-	72	-	-	
M2.5	-	#3	0.45	-	-	-	56	64	-	-	
M3	1/8	#5	0.5	-	-	-	40	48	-	-	
M3.5	-	#6	0.6	-	-	-	40	40	-	-	
M4	5/32	#8	0.7	-	-	-	32	36	32	-	
M5	3/16	#10	0.8	-	-	-	24	32	24	32	
M6	-	#12	-	-	-	-	24	28	-	-	
M6	1/4	-	1	-	-	-	20	28	20	26	
M8	5/16	-	1.25	1	-	-	18	24	18	22	
M10	3/8	-	1.5	1.25	1	-	16	24	16	20	
M12	7/16	-	-	-	-	-	14	20	14	18	
M12	1/2	-	1.75	1.5	1.25	-	13	20	12	16	
M14	9/16	-	2	1.5	-	-	12	18	12	16	
M16	5/8	-	2	1.5	-	-	11	18	11	14	
M18	-	-	2.5	1.5	-	-	-	-	-	-	
M20	3/4	-	2.5	1.5	-	-	10	16	10	12	
M22	7/8	-	2.5	1.5	-	-	9	14	9	11	
M24	1	-	3	2	1.5	-	8	12 (14)	8	10	
M27	1 1/8	-	3	2	1.5	-	7	8	7	9	
M30	1 1/4	-	3.5	2	1.5	-	7	8	7	9	
M33	1 3/8	-	3.5	2	-	-	6	8	6	8	
M36	1 1/2	-	4	3	2	-	6	8	6	8	
M39	1 5/8	-	4	3	-	-	8	-	5	8	
M42	-	-	4.5	3	-	-	-	-	-	-	
M45	1 3/4	-	4.5	3	-	-	5	8	12	5	7
M48	1 7/8	-	5	3	-	-	8	-	-	-	



WASHER GAUGE CONVERTER

gauge	8	9	10	12	14	16	18	19	20	21	22	30
mm	3.99	3.55	3.18	2.52	1.99	1.59	1.26	1.07	0.89	0.81	0.74	0.31
inch	0.1570"	0.1398"	0.1250"	0.0991"	0.0785"	0.0625"	0.0495"	0.0420"	0.0350"	0.0320"	0.0290"	0.0123"



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