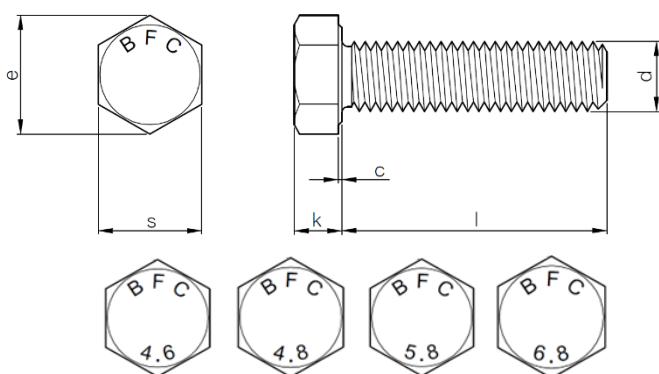


DIN 933 : Hexagon Head Screws (Full Thread)



Standard		DIN 933
Hardness	4.6	67.0 – 99.5 HRB
	4.8	71.0 – 99.5 HRB
	5.8	82.0 – 99.5 HRB
	6.8	89.0 – 99.5 HRB
Surface Treatment		Plain, Black Oxide, Zinc Plating, Hot-Dip Galvanized - (Non - Hardened)
Strength Class		4.6, 4.8, 5.8, 6.8
Code		
Brand		BFC

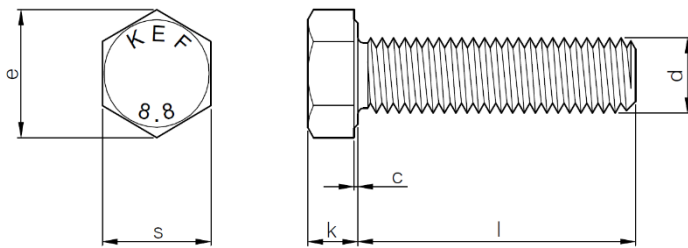
d Nominal Size or Basic Product Diameter	Pitch	s Width Across Flats	e Width Across Corners	k Head Height	c Thickness of The Washer Face	l Nominal Length
		MAX.	MIN.	MAX.	MAX.	10 – 380
M5	0.8	8.00	8.79	3.65	0.50	
M6	1.0	10.00	11.05	4.15	0.50	
M7	1.0	11.00	12.12	4.95	0.50	
M8	1.25	13.00	14.38	5.45	0.60	
M10	1.5	17.00	18.90	6.58	0.60	
M12	1.75	19.00	21.10	7.68	0.60	
M14	2.0	22.00	24.49	8.98	0.60	
M16	2.0	24.00	26.75	10.18	0.80	
M18	2.5	27.00	30.14	11.72	0.80	
M20	2.5	30.00	33.53	12.72	0.80	
M22	2.5	32.00	35.72	14.22	0.80	
M24	3.0	36.00	39.98	15.22	0.80	

หมายเหตุ :

Unit : mm



DIN 933 : Hexagon Head Screws (Full Thread)



Standard			DIN 933
Hardness	8.8	≤M16	22 – 32 HRC
		>M16	23 – 34 HRC
Surface Treatment			Black Oxide, Zinc Plating, Hot-Dip Galvanized
Strength Class			8.8
Code			
Brand			KEF

d Nominal Size or Basic Product Diameter	Pitch	s Width Across Flats	e Width Across Corners	k Head Height	c Thickness of The Washer Face	l Nominal Length
		MAX.	MIN.	MAX.	MAX.	
M5	0.8	8.00	8.79	3.65	0.50	10 – 380
M6	1.0	10.00	11.05	4.15	0.50	
M7	1.0	11.00	12.12	4.95	0.50	
M8	1.25	13.00	14.38	5.45	0.60	
M10	1.5	17.00	18.90	6.58	0.60	
M12	1.75	19.00	21.10	7.68	0.60	
M14	2.0	22.00	24.49	8.98	0.60	
M16	2.0	24.00	26.75	10.18	0.80	
M18	2.5	27.00	30.14	11.72	0.80	
M20	2.5	30.00	33.53	12.72	0.80	
M22	2.5	32.00	35.72	14.22	0.80	
M24	3.0	36.00	39.98	15.22	0.80	

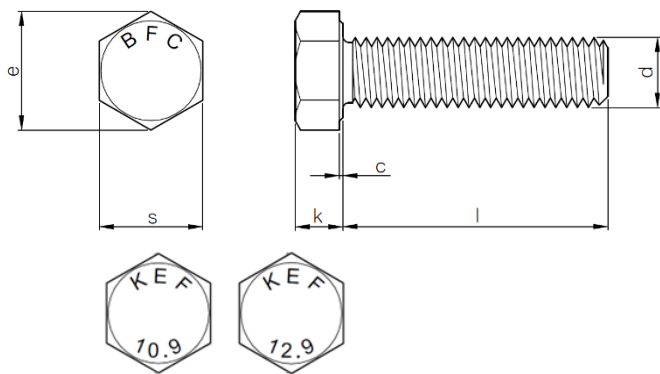
หมายเหตุ :

Unit : mm



Bangkok Fastening CO., Ltd. 99/4 Moo 7 Bangna - Trad Road, Bangchaiong, Bangplee, Samutprakarn 10540, Thailand Tel. : +66(0) 2312 6159-65 Fax. : +66(0) 2312 6166

DIN 933 : Hexagon Head Screws (Full Thread)



Standard		DIN 933
Hardness	10.9	32 – 39 HRC
	12.9	39 – 44 HRC
Surface Treatment		Black Oxide, Zinc Plating (Electroplated Zinc Coating with Hydrogen Baking)
Strength Class		10.9, 12.9
Code		
Brand		KEF

d Nominal Size or Basic Product Diameter	Pitch	s	e	k	c	l
		Width Across Flats	Width Across Corners	Head Height	Thickness of The Washer Face	Nominal Length
		MAX.	MIN.	MAX.	MAX.	10 – 380
M5	0.8	8.00	8.79	3.65	0.50	
M6	1.0	10.00	11.05	4.15	0.50	
M7	1.0	11.00	12.12	4.95	0.50	
M8	1.25	13.00	14.38	5.45	0.60	
M10	1.5	17.00	18.90	6.58	0.60	
M12	1.75	19.00	21.10	7.68	0.60	
M14	2.0	22.00	24.49	8.98	0.60	
M16	2.0	24.00	26.75	10.18	0.80	
M18	2.5	27.00	30.14	11.72	0.80	
M20	2.5	30.00	33.53	12.72	0.80	
M22	2.5	32.00	35.72	14.22	0.80	
M24	3.0	36.00	39.98	15.22	0.80	

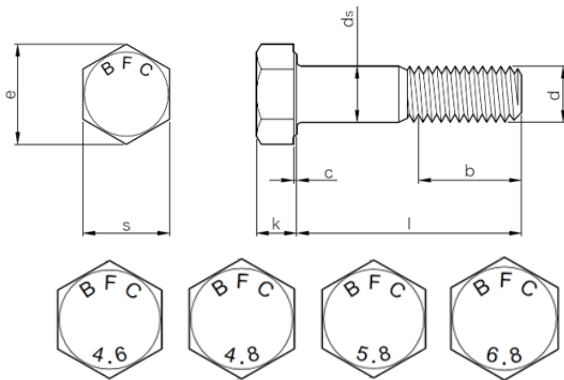
หมายเหตุ :

Unit : mm



Bangkok Fastening CO., Ltd. 99/4 Moo 7 Bangna - Trad Road, Bangchaiong, Bangplee, Samutprakarn 10540, Thailand Tel. : +66(0) 2312 6159-65 Fax. : +66(0) 2312 6166

DIN 931 : Hexagon Head Screws (Full Thread)



Standard		DIN 931
Hardness	4.6	67.0 – 99.5 HRB
	4.8	71.0 – 99.5 HRB
	5.8	82.0 – 99.5 HRB
	6.8	89.0 – 99.5 HRB
Surface Treatment		Plain, Black Oxide, Zinc Plating, Hot-Dip Galvanized - (Non - Hardened)
Strength Class		4.6, 4.8, 5.8, 6.8
Code		
Brand		BFC

d Nominal Size or Basic Product Diameter	Pitch	s Width Across Flats	e Width Across Corners	k Head Height	c Thickness of The Washer Face	d_s Body Diameter	b Thread Length			l Nominal Length
		MAX.	MIN.	MAX.	MAX.	MAX.	≤125	>125 ≤200	>200	10 – 380
M5	0.8	8.00	8.79	3.65	0.50	5.00	19.00	25.00	-	10 – 380
M6	1.0	10.00	11.05	4.15	0.50	6.00	21.00	27.00	-	
M7	1.0	11.00	12.12	4.95	0.50	7.00	23.00	29.00	-	
M8	1.25	13.00	14.38	5.45	0.60	8.00	25.00	31.00	-	
M10	1.5	17.00	18.90	6.58	0.60	10.00	29.00	36.00	49.00	
M12	1.75	19.00	21.10	7.68	0.60	12.00	33.00	40.00	53.00	
M14	2.0	22.00	24.49	8.98	0.60	14.00	38.00	44.00	58.00	
M16	2.0	24.00	26.75	10.18	0.80	16.00	42.00	48.00	62.00	
M18	2.5	27.00	30.14	11.72	0.80	18.00	46.00	52.00	66.00	
M20	2.5	30.00	33.53	12.72	0.80	20.00	50.00	57.00	70.00	
M22	2.5	32.00	35.72	14.22	0.80	22.00	54.00	61.00	74.00	
M24	3.0	36.00	39.98	15.22	0.80	24.00	59.00	65.00	78.00	

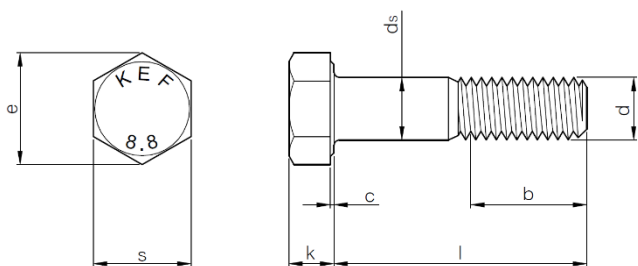
หมายเหตุ :

Unit : mm



Bangkok Fastening CO., Ltd. 99/4 Moo 7 Bangna - Trad Road, Bangchaiong, Bangplee, Samutprakarn 10540, Thailand Tel. : +66(0) 2312 6159-65 Fax. : +66(0) 2312 6166

DIN 931 : Hexagon Head Screws (Full Thread)



Standard			DIN 931
Hardness	8.8	≤M16	22 – 32 HRC
		>M16	23 – 34 HRC
Surface Treatment			Black Oxide, Zinc Plating, Hot-Dip Galvanized
Strength Class			8.8
Code			
Brand			KEF

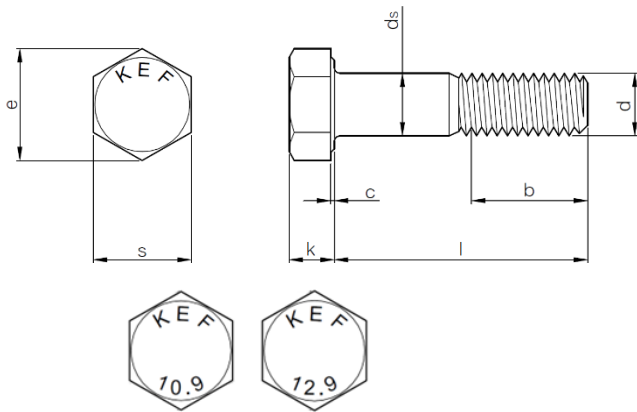
d Nominal Size or Basic Product Diameter	Pitch	s Width Across Flats	e Width Across Corners	k Head Height	c Thickness of The Washer Face	d _s Body Diameter	b Thread Length			l Nominal Length
		MAX.	MIN.	MAX.	MAX.	MAX.	≤125	>125 ≤200	>200	
M5	0.8	8.00	8.79	3.65	0.50	5.00	19.00	25.00	-	10 – 380
M6	1.0	10.00	11.05	4.15	0.50	6.00	21.00	27.00	-	
M7	1.0	11.00	12.12	4.95	0.50	7.00	23.00	29.00	-	
M8	1.25	13.00	14.38	5.45	0.60	8.00	25.00	31.00	-	
M10	1.5	17.00	18.90	6.58	0.60	10.00	29.00	36.00	49.00	
M12	1.75	19.00	21.10	7.68	0.60	12.00	33.00	40.00	53.00	
M14	2.0	22.00	24.49	8.98	0.60	14.00	38.00	44.00	58.00	
M16	2.0	24.00	26.75	10.18	0.80	16.00	42.00	48.00	62.00	
M18	2.5	27.00	30.14	11.72	0.80	18.00	46.00	52.00	66.00	
M20	2.5	30.00	33.53	12.72	0.80	20.00	50.00	57.00	70.00	
M22	2.5	32.00	35.72	14.22	0.80	22.00	54.00	61.00	74.00	
M24	3.0	36.00	39.98	15.22	0.80	24.00	59.00	65.00	78.00	

หมายเหตุ :

Unit : mm



DIN 931 : Hexagon Head Screws (Full Thread)



Standard		DIN 931
Hardness	10.9	32 – 39 HRC
	12.9	39 – 44 HRC
Surface Treatment		Black Oxide, Zinc Plating (Electroplated Zinc Coating with Hydrogen Baking)
Strength Class		10.9, 12.9
Code		
Brand		KEF

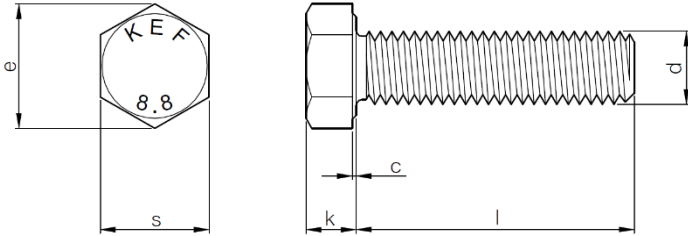
d	Pitch	s	e	k	c	d _s	b			l
Nominal Size or Basic Product Diameter		Width Across Flats	Width Across Corners	Head Height	Thickness of The Washer Face	Body Diameter	Thread Length			Nominal Length
		MAX.	MIN.	MAX.	MAX.	MAX.	≤125	>125 ≤200	>200	10 – 380
M5	0.8	8.00	8.79	3.65	0.50	5.00	19.00	25.00	-	
M6	1.0	10.00	11.05	4.15	0.50	6.00	21.00	27.00	-	
M7	1.0	11.00	12.12	4.95	0.50	7.00	23.00	29.00	-	
M8	1.25	13.00	14.38	5.45	0.60	8.00	25.00	31.00	-	
M10	1.5	17.00	18.90	6.58	0.60	10.00	29.00	36.00	49.00	
M12	1.75	19.00	21.10	7.68	0.60	12.00	33.00	40.00	53.00	
M14	2.0	22.00	24.49	8.98	0.60	14.00	38.00	44.00	58.00	
M16	2.0	24.00	26.75	10.18	0.80	16.00	42.00	48.00	62.00	
M18	2.5	27.00	30.14	11.72	0.80	18.00	46.00	52.00	66.00	
M20	2.5	30.00	33.53	12.72	0.80	20.00	50.00	57.00	70.00	
M22	2.5	32.00	35.72	14.22	0.80	22.00	54.00	61.00	74.00	
M24	3.0	36.00	39.98	15.22	0.80	24.00	59.00	65.00	78.00	

หมายเหตุ :

Unit : mm



DIN 961 : Hexagon Head Screws (Full Thread)



Standard			DIN 961
Hardness	8.8	≤M16	22 – 32 HRC
		>M16	23 – 34 HRC
Surface Treatment			Black Oxide, Zinc Plating
Strength Class			8.8
Code			
Brand			KEF

d Nominal Size or Basic Product Diameter	Pitch	s	e	k	c	l Nominal Length
		Width Across Flats	Width Across Corners	Head Height	Thickness of The Washer Face	
		MAX.	MIN.	MAX.	MAX.	
M8	1.0	13.00	14.38	5.45	0.60	10 – 380
M10	1.0	17.00	18.90	6.58	0.60	
M10	1.25	14.00	15.51	6.58	0.60	
M10	1.25	17.00	18.90	6.58	0.60	
M12	1.25	17.00	18.90	7.68	0.60	
M12	1.25	19.00	21.10	7.68	0.60	
M12	1.5	17.00	18.90	7.68	0.60	
M12	1.5	19.00	21.10	7.68	0.60	
M14	1.5	22.00	24.49	8.98	0.60	
M16	1.5	24.00	26.75	10.18	0.80	
M18	1.5	27.00	30.14	11.72	0.80	
M20	1.5	30.00	33.53	12.72	0.80	
M22	1.5	32.00	35.72	14.22	0.80	
M24	1.5	36.00	39.98	15.22	0.80	

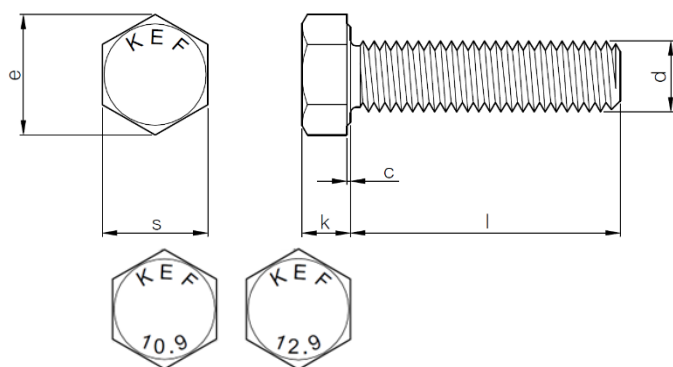
หมายเหตุ :

Unit : mm



Bangkok Fastening CO., Ltd. 99/4 Moo 7 Bangna - Trad Road, Bangchaiong, Bangplee, Samutprakarn 10540. Thailand Tel. : +66(0) 2312 6159-65 Fax. : +66(0) 2312 6166

DIN 961 : Hexagon Head Screws (Full Thread)



Standard		DIN 961
Hardness	10.9	32 – 39 HRC
	12.9	39 – 44 HRC
Surface Treatment		Black Oxide, Zinc Plating (Electroplated Zinc Coating with Hydrogen Baking)
Strength Class		10.9, 12.9
Code		
Brand		KEF

d Nominal Size or Basic Product Diameter	Pitch	s	e	k	c	l Nominal Length
		Width Across Flats	Width Across Corners	Head Height	Thickness of The Washer Face	
		MAX.	MIN.	MAX.	MAX.	
M8	1.0	13.00	14.38	5.45	0.60	10 – 380
M10	1.0	17.00	18.90	6.58	0.60	
M10	1.25	14.00	15.51	6.58	0.60	
M10	1.25	17.00	18.90	6.58	0.60	
M12	1.25	17.00	18.90	7.68	0.60	
M12	1.25	19.00	21.10	7.68	0.60	
M12	1.5	17.00	18.90	7.68	0.60	
M12	1.5	19.00	21.10	7.68	0.60	
M14	1.5	22.00	24.49	8.98	0.60	
M16	1.5	24.00	26.75	10.18	0.80	
M18	1.5	27.00	30.14	11.72	0.80	
M20	1.5	30.00	33.53	12.72	0.80	
M22	1.5	32.00	35.72	14.22	0.80	
M24	1.5	36.00	39.98	15.22	0.80	

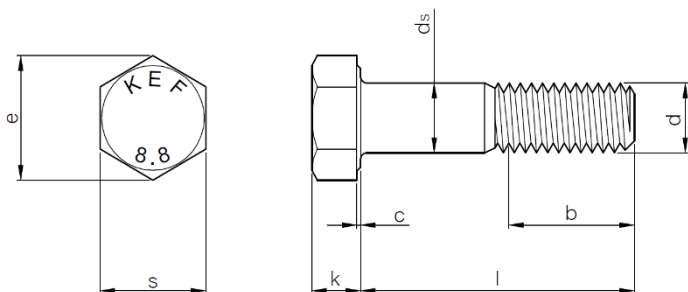
หมายเหตุ :

Unit : mm



Bangkok Fastening CO., Ltd. 99/4 Moo 7 Bangna - Trad Road, Bangchaiong, Bangplee, Samutprakarn 10540. Thailand Tel. : +66(0) 2312 6159-65 Fax. : +66(0) 2312 6166

DIN 960 : Hexagon Head Screws (Full Thread)



Standard			DIN 960
Hardness	8.8	≤M16	22 – 32 HRC
		>M16	23 – 34 HRC
Surface Treatment			Black Oxide, Zinc Plating
Strength Class			8.8
Code			
Brand			KEF

d Nominal Size or Basic Product Diameter	Pitch	s	e	k	c	d _s	b			l
		Width Across Flats	Width Across Corners	Head Height	Thickness of The Washer Face	Body Diameter	Thread Length			Nominal Length
		MAX.	MIN.	MAX.	MAX.	MAX.	≤125	>125 ≤200	>200	
M8	1.0	13.00	14.38	5.45	0.60	8.00	25.00	31.00	45.00	10 – 380
M10	1.0	17.00	18.90	6.58	0.60	10.00	29.00	36.00	49.00	
M10	1.25	14.00	15.51	6.58	0.60	10.00	29.00	36.00	49.00	
M10	1.25	17.00	18.90	6.58	0.60	10.00	29.00	36.00	49.00	
M12	1.25	17.00	18.90	7.68	0.60	12.00	33.00	40.00	53.00	
M12	1.25	19.00	21.10	7.68	0.60	12.00	33.00	40.00	53.00	
M12	1.5	17.00	18.90	7.68	0.60	12.00	33.00	40.00	53.00	
M12	1.5	19.00	21.10	7.68	0.60	12.00	33.00	40.00	53.00	
M14	1.5	22.00	24.49	8.98	0.60	14.00	38.00	44.00	58.00	
M16	1.5	24.00	26.75	10.18	0.80	16.00	42.00	48.00	62.00	
M18	1.5	27.00	30.14	11.72	0.80	18.00	46.00	52.00	66.00	
M18	2.0	27.00	30.14	11.72	0.80	18.00	46.00	52.00	66.00	
M20	1.5	30.00	33.53	12.72	0.80	20.00	50.00	57.00	70.00	
M20	2.0	30.00	33.53	12.72	0.80	20.00	50.00	57.00	70.00	
M22	1.5	32.00	35.72	14.22	0.80	22.00	54.00	61.00	74.00	
M24	1.5	36.00	39.98	15.22	0.80	24.00	59.00	65.00	78.00	
M24	2.0	36.00	39.98	15.22	0.80	24.00	59.00	65.00	78.00	

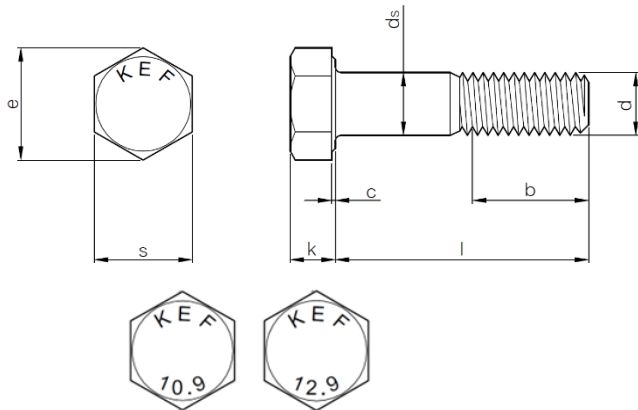
หมายเหตุ :

Unit : mm



Bangkok Fastening CO., Ltd. 99/4 Moo 7 Bangna - Trad Road, Bangchaiong, Bangplee, Samutprakarn 10540. Thailand Tel. : +66(0) 2312 6159-65 Fax. : +66(0) 2312 6166

DIN 960 : Hexagon Head Screws (Full Thread)



Standard		DIN 960
Hardness	10.9	32 – 39 HRC
	12.9	39 – 44 HRC
Surface Treatment		Black Oxide, Zinc Plating (Electroplated Zinc Coating with Hydrogen Baking)
Strength Class		10.9, 12.9
Code		
Brand		KEF

d Nominal Size or Basic Product Diameter	Pitch	s	e	k	c	d _s	b			l
		Width Across Flats	Width Across Corners	Head Height	Thickness of The Washer Face	Body Diameter	Thread Length			Nominal Length
		MAX.	MIN.	MAX.	MAX.	MAX.	≤125	>125 ≤200	>200	
M8	1.0	13.00	14.38	5.45	0.60	8.00	25.00	31.00	45.00	10 – 380
M10	1.0	17.00	18.90	6.58	0.60	10.00	29.00	36.00	49.00	
M10	1.25	14.00	15.51	6.58	0.60	10.00	29.00	36.00	49.00	
M10	1.25	17.00	18.90	6.58	0.60	10.00	29.00	36.00	49.00	
M12	1.25	17.00	18.90	7.68	0.60	12.00	33.00	40.00	53.00	
M12	1.25	19.00	21.10	7.68	0.60	12.00	33.00	40.00	53.00	
M12	1.5	17.00	18.90	7.68	0.60	12.00	33.00	40.00	53.00	
M12	1.5	19.00	21.10	7.68	0.60	12.00	33.00	40.00	53.00	
M14	1.5	22.00	24.49	8.98	0.60	14.00	38.00	44.00	58.00	
M16	1.5	24.00	26.75	10.18	0.80	16.00	42.00	48.00	62.00	
M18	1.5	27.00	30.14	11.72	0.80	18.00	46.00	52.00	66.00	
M18	2.0	27.00	30.14	11.72	0.80	18.00	46.00	52.00	66.00	
M20	1.5	30.00	33.53	12.72	0.80	20.00	50.00	57.00	70.00	
M20	2.0	30.00	33.53	12.72	0.80	20.00	50.00	57.00	70.00	
M22	1.5	32.00	35.72	14.22	0.80	22.00	54.00	61.00	74.00	
M24	1.5	36.00	39.98	15.22	0.80	24.00	59.00	65.00	78.00	
M24	2.0	36.00	39.98	15.22	0.80	24.00	59.00	65.00	78.00	

หมายเหตุ :

Unit : mm



Bangkok Fastening CO., Ltd. 99/4 Moo 7 Bangna - Trad Road, Bangchaiong, Bangplee,
Samutprakarn 10540. Thailand Tel. : +66(0) 2312 6159-65 Fax. : +66(0) 2312 6166