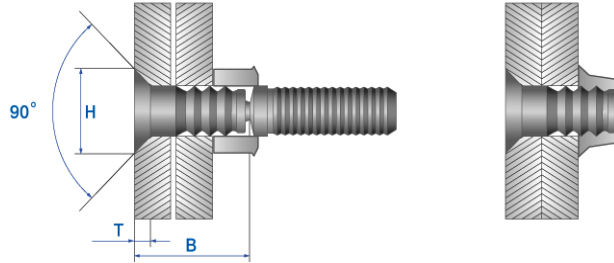


# LD Lock Bolt



<b>Head Type</b>	Countersunk Head
<b>Material</b>	Carbon Steel(AISI 1038)
<b>Finish</b>	Zinc Plate



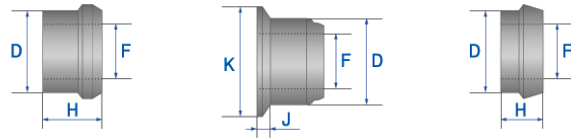
H = Head Diameter  
 T = Head Thickness  
 B = Break Point Length

\*Dimensions in millimeters

Rivet Diameter (D) nom.	Hole Size	Break Point Length(B)	Grip Range	Head Diameter (H) max.	Head Thickness (T) max.	Standard Strength (kN) typ.	
						Shear	Tensile
4.8	5.2	10.0	1.6~4.8	8.3~9.0	1.9~2.2	7.7	7.3
		11.6	3.2~6.4				
		13.2	4.8~7.9				
		14.8	6.4~9.5				
		16.4	7.9~11.1				
		18.0	9.5~12.7				
		19.5	11.1~14.3				
		21.1	12.7~15.9				
		22.7	14.3~17.5				
		24.3	15.9~19.1				
		25.9	17.5~20.6				
		27.5	19.1~22.2				
		29.1	20.6~23.8				
		30.7	22.2~25.4				
		32.2	23.8~27.0				
		33.8	25.4~28.6				
		35.4	27.0~30.2				
		37.0	28.6~31.8				
		38.6	30.2~33.3				
		40.2	31.8~34.9				
		41.8	33.3~36.5				
43.4	34.9~38.1						
44.9	36.5~39.7						
46.5	38.1~41.3						
48.1	39.7~42.9						
49.7	41.3~44.5						
51.3	42.9~46.0						
52.9	44.5~47.6						
54.5	46.0~49.2						
56.1	47.6~50.8						
57.6	49.2~52.4						

Rivet Diameter (D) nom.	Hole Size	Break Point Length(B)	Grip Range	Head Diameter (H) max.	Head Thickness (T) max.	Standard Strength (kN) typ.	
						Shear	Tensile
9.6	9.9	39.6	22.2~28.6	16.6~18.1	3.8~4.3	30.4	28.9
		42.8	25.4~31.8				
		45.9	28.6~34.9				
		49.1	31.8~38.1				
		52.3	34.9~41.3				
		55.5	38.1~44.5				
		58.6	41.3~47.6				
		61.8	44.5~50.8				
65.0	47.6~54.0						

<b>Collar Type</b>	Standard, Flange, Half
<b>Material</b>	Carbon Steel(AISI 1010)
<b>Finish</b>	Zinc Plate



Pin Diameter (D) nom.	F	G	H	J	K	Type
4.8	4.7~5.0	7.7~7.9	5.5~6.3			Standard
6.4	6.5~6.8	10.2~10.4	7.2~8.2			
8.0	7.7~8.0	12.3~12.6	8.8~9.7			
9.6	9.5~9.8	15.0~15.3	10.9~11.7			
4.8	4.7~5.0	7.7~7.9	6.3~7.2	0.7~1.6	9.1~10.0	Flange
6.4	6.5~6.8	10.2~10.4	8.8~9.7	1.1~2.0	12.2~13.2	
8.0	7.7~8.0	12.6~12.9	10.0~10.9	1.5~2.4	15.4~16.3	
9.6	9.6~10.0	15.2~15.5	12.7~13.6	1.5~3.2	18.2~19.9	
4.8	4.7~5.0	7.7~7.9	3.3~4.2	2.4		Half
6.4	6.5~6.8	10.2~10.4	4.3~5.2	3.2		
8.0	7.7~8.0	12.3~12.6	5.7~6.5	3.2		
9.6	9.5~9.8	14.9~15.3	7.6~9.5	4.0		

**NOTE)**

1. When using flange collar, select the grip range after addition of dimension(J) from thickness of part.
2. When using half collar, select the grip range after subtraction of dimension(J) from thickness of part.
3. When using half collar, tensile is reduced to approximately 45%

Rivet Diameter (D) nom.	Hole Size	Break Point Length(B)	Grip Range	Head Diameter (H) max.	Head Thickness (T) max.	Standard Strength (kN) typ.	
						Shear	Tensile
6.4	6.8	12.3	1.6~4.8	11.0~12.1	2.5~2.9	13.5	13.3
		13.9	3.2~6.4				
		15.5	4.8~7.9				
		17.1	6.4~9.5				
		18.7	7.9~11.1				
		20.3	9.5~12.7				
		21.8	11.1~14.3				
		23.4	12.7~15.9				
		25.0	14.3~17.5				
		26.6	15.9~19.1				
		28.2	17.5~20.6				
		29.8	19.1~22.2				
		31.4	20.6~23.8				
		33.0	22.2~25.4				
		34.5	23.8~27.0				
		36.1	25.4~28.6				
		37.7	27.0~30.2				
		39.3	28.6~31.8				
		40.9	30.2~33.3				
		42.5	31.8~34.9				
		44.1	33.3~36.5				
45.7	34.9~38.1						
47.2	36.5~39.7						
48.8	38.1~41.3						
50.4	39.7~42.9						
52.0	41.3~44.5						
53.6	42.9~46.0						
55.2	44.5~47.6						
56.8	46.0~49.2						
58.4	47.6~50.8						
59.9	49.2~52.4						
8	8.3	19.0	3.2~9.5	13.8~15.0	3.2~3.6	21.0	20.5
		22.2	6.4~12.7				
		25.4	9.5~15.9				
		28.5	12.7~19.1				
		31.7	15.9~22.2				
		34.9	19.1~25.4				
		38.1	22.2~28.6				
		41.2	25.4~31.8				
		44.4	28.6~34.9				
		47.6	31.8~38.1				
		50.8	34.9~41.3				
		53.9	38.1~44.5				
		57.1	41.3~47.6				
		60.3	44.5~50.8				
63.5	47.6~54.0						
9.6	9.9	20.5	3.2~9.5	16.6~18.1	3.8~4.3	30.4	28.9
		23.7	6.4~12.7				
		26.9	9.5~15.9				
		30.1	12.7~19.1				
		33.2	15.9~22.2				
		36.4	19.1~25.4				