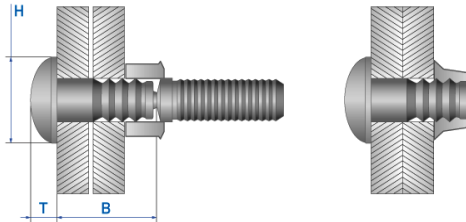


# LD Lock Bolt



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

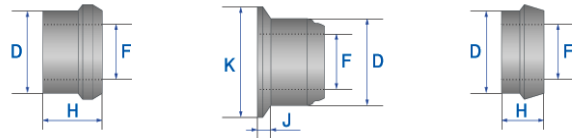
<b>Head Type</b>	<b>Brazier Head</b>
<b>Material</b>	<b>Carbon Steel</b>
<b>Finish</b>	<b>Zinc Plate</b>

\*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	9.0~10.0	2.8~3.2	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	18.1~20.0	5.6~6.3	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>	<b>Standard, Flange, Half</b>
<b>Material</b>	<b>Carbon Steel</b>
<b>Finish</b>	<b>Zinc Plate</b>



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	12.0~13.4	3.4~3.9	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	15.0~16.7	4.5~5.2	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	18.1~20.0	5.6~6.3	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				