

## WORM DRIVE HOSE CLAMPS

Specification : BS 5315 : 1991, IS 4762 : 2002 and DIN 3017



**MATERIAL :** The Material used in Manufacture of WORM DRIVE HOSE CLAMPS shall be selected at the manufacturer's discretion provided that the finished clamps are capable of passing the tests specified.

**MANUFACTURE :** Screw : Shall be held captive in the Clamp Housing.

**Band :** Band shall have a thread form commencing at the free end extending for length sufficient to enable the clamp to be tightened on to the smallest diameter of component within the working range for which it is designed.

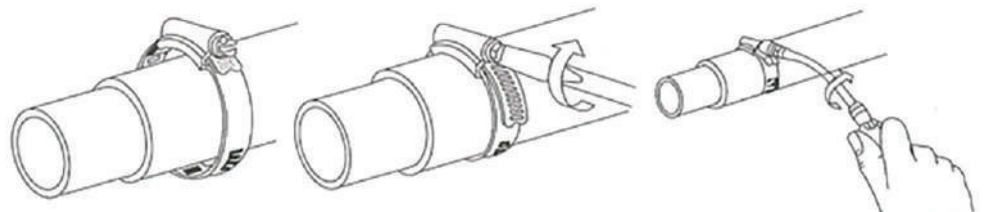
**HOUSING :** The housing shall not be readily removable from the band.

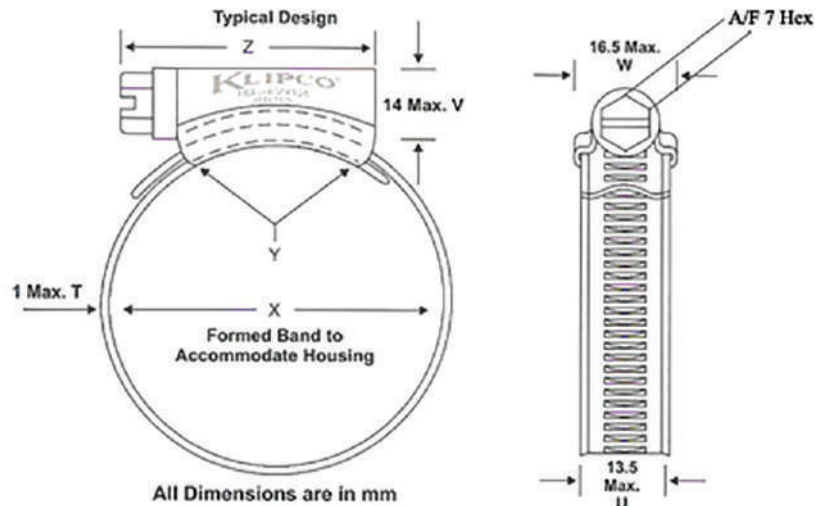
**FINISH :** Clamp shall be smooth and free from burrs and sharp edges. Clamp Produced other than from corrosion resistant material (Stainless Steel) shall be protected from electroplating coating of zinc-as per Fe Zn12 of IS: 1573/1970 & BS: 1706-Zn3.

**TESTS :** Free running Torque Test : for this purpose the torque required to move the screw in either direction shall not exceed 1.5Nm i.e. (13.3 ibf /In or 0.16 kgf / m)

**Torque Test :** The Clamp shall be tightened to 75% of the Torque Load, as shown in table. On release, Clamp shall reveal no sign of permanent distortion of the housing, nor efficient functioning of the clamp size. The Clamp shall then be retightened until permanent distortion or failure occurs, at this point torque load shall be in excess of the value shown in table.

**Hydraulic Pressure Test :** The fluid used for the test shall be water at room temperature. Torque applied shall not be more than 75%, of the value. Pressure shall be applied gradually from an external source until leakage or other failure occurs, at which stage the pressure shall be not less than appropriate value specified.





**DIMENSIONS OF CLAMPS**

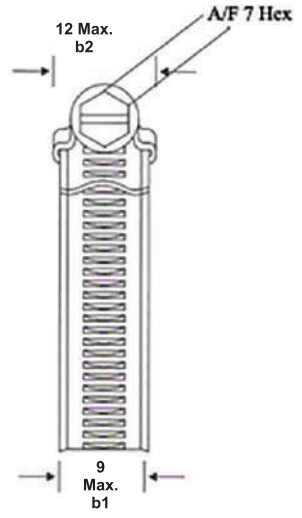
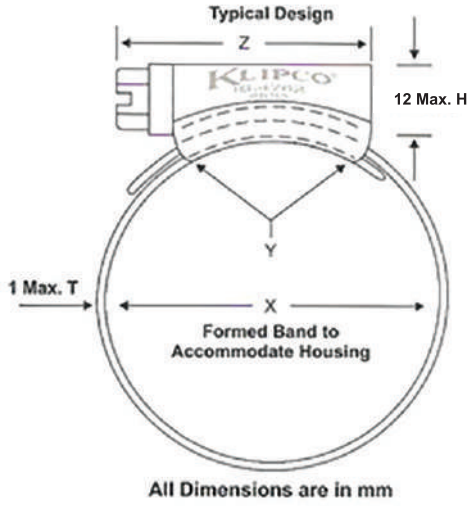
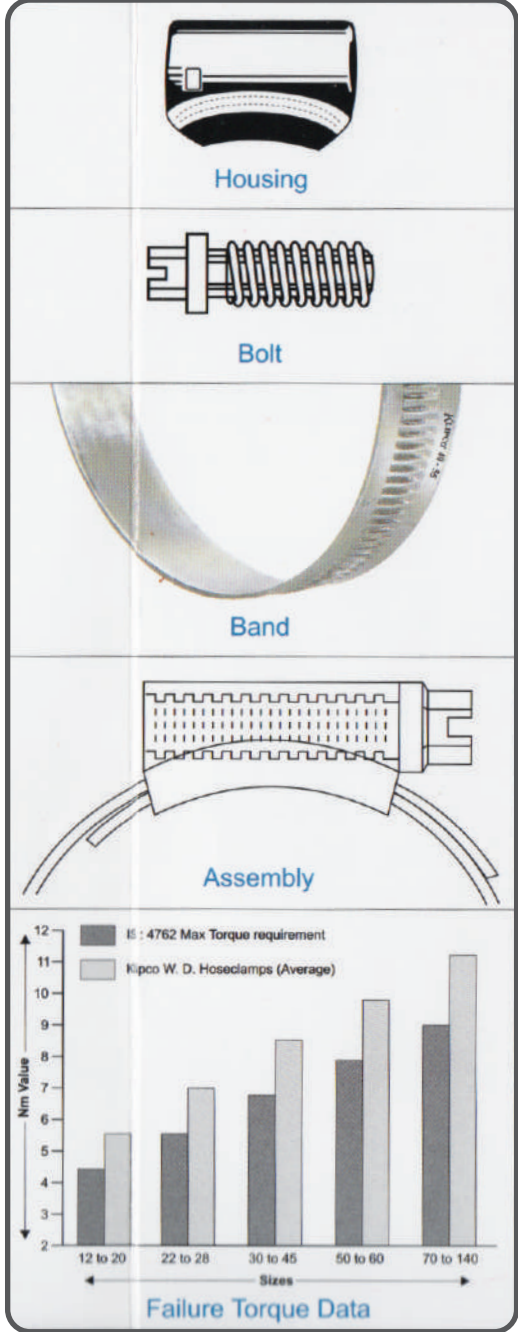
IS 4762 & BS 5315

IS:4762 Sizes	Klipco Sizes	BS:5315 Sizes	X Working Range		Z Max.	Y Max.	Fitment Torque Max. Nm	Failure Torque Nm	Hydraulic Pressure MPa
			Min.	Max.					
12	000	12	9.5	12	25	14	3.4	4.5	1.4
16	00M	16	11	16					
20	00	20	13	20					
22	0	22	16	22	30	20	4.2	5.6	0.7
25	25A	25	18	25					
-	0X	-	20	28					
30	1A	30	22	30	33	25	5.1	6.8	0.3
35	35A	35	25	35					
-	1	-	28	38					
40	1X	40	30	40	33	28	5.92	7.9	0.3
45	45A	45	35	45					
50	2A	50	35	50					
-	2	55	40	55	33	28	6.8	9.0	0.3
60	2X	60	45	60					
65	65A	65	50	65					
70	3	70	55	70	33	28	6.8	9.0	0.3
-	75A	-	60	75A					
80	80	80	60	80					
90	4	90	70	90	33	28	6.8	9.0	0.3
100	4X	100	85	100					
110	110A	110	90	110					
115	115A	115	95	115	33	28	6.8	9.0	0.3
120	5	120	100	120					
130	130A	130	110	130					
140	6	140	120	140	33	28	6.8	9.0	0.3
150	6X	-	130	150					
160	160A	-	140	160					

The larger sizes test is based on housing in a fixture, band attached to tensile fixture, to screw torque to 6.8 Nm & band tension to 1.5 KN upto 7.9 Nm without distortion or failure.

**LARGE RANGE**

Klipco Size	Outside Diameter of Hose		Klipco Size	Outside Diameter of Hose		Klipco Size	Outside Diameter of Hose		Klipco Size	Outside Diameter of Hose	
7	150	175	10	225	250	13	300	325	16	375	400
8	175	200	11	250	275	14	325	350	17	400	425
9	200	225	12	275	300	15	350	375	18	425	450



**DIMENSIONS OF CLAMPS**

DIN 3017

DIN 3017 Sizes	Klipco Sizes	Working Range		Z	Static Torque Material Nm Max.	
		Min.	Max.		W1	W2, W3, W4, W5
12	000	8.0	12	18	2.5	3
16	00M	10	16			
20	00	12	20			
25	25A	16	25	24	3.0	3.5
32	1A	20	32			
40	1X	25	40	26	3.5	4
50	2A	32	50			
60	2X	40	60			
70	3	50	70			
80	3X	60	80			
90	4	70	90			
100	4X	90	100			
110	110A	90	110			
120	5	100	120			
130	130A	110	130			
140	6	120	140			
150	6X	130	150			
160	160A	140	160			

**Note :** The range is for light duty (L) application only.

