



HOSE CLAMPS SOLUTION PROVIDER



www.orbit-clips.com

CLAMPS SOLUTION PROVIDER FOR OVER 60 YEARS



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ORBIT

HOSE CLAMP

THE LONG HISTORY OF 60 YEARS AND MORE



“

ORBIT is the brand that committed to reliability for over 60 years. Since 1957, **ORBIT** hose clamps have been widely used in various applications worldwide. **ORBIT** is originated in UK since then. As the No.1 leak-proof hose clamp manufacturer in South East Asia, we understand how is it important to reduce the downtime for each of the industries. So we promise quality products for every applicaion and help with the professional solutions to make sure for your problem free future.



ORBIT
HOSE CLAMP

THE INDUSTRIES WE COVER

ORIGINAL

- Your Trusted Partner -

ORBIT hose clamps has set a gold standard in hardware distributions in more than 40 countries and more than 300 distributors worldwide.



Aftermarket



Maintenance /General



Hardware Distribution

INDUSTRIAL

- Committed to Reliability -

ORBIT hose clamps are designed in mind to build a durable and high performance products that exceeds various industrial standard.



Oil & Gas



Industrial Supplies



Automotive OEM



OEM

- Precision Done Right -

ORBIT welcomes collaboration with OEM partners to custom made the best clamping solution for a specific system. Our R&D and factory facilities are capable to design and produce according to customer requirements.



Machine Builder



Heavy Equipment OEM



Automotive OEM

INFRASTRUCTURE

- Build a Better Tomorrow -

It includes a series of products that specially made for construction, water treatment and the HVAC market to make sure products are meeting most building standards.



Mass Transit System



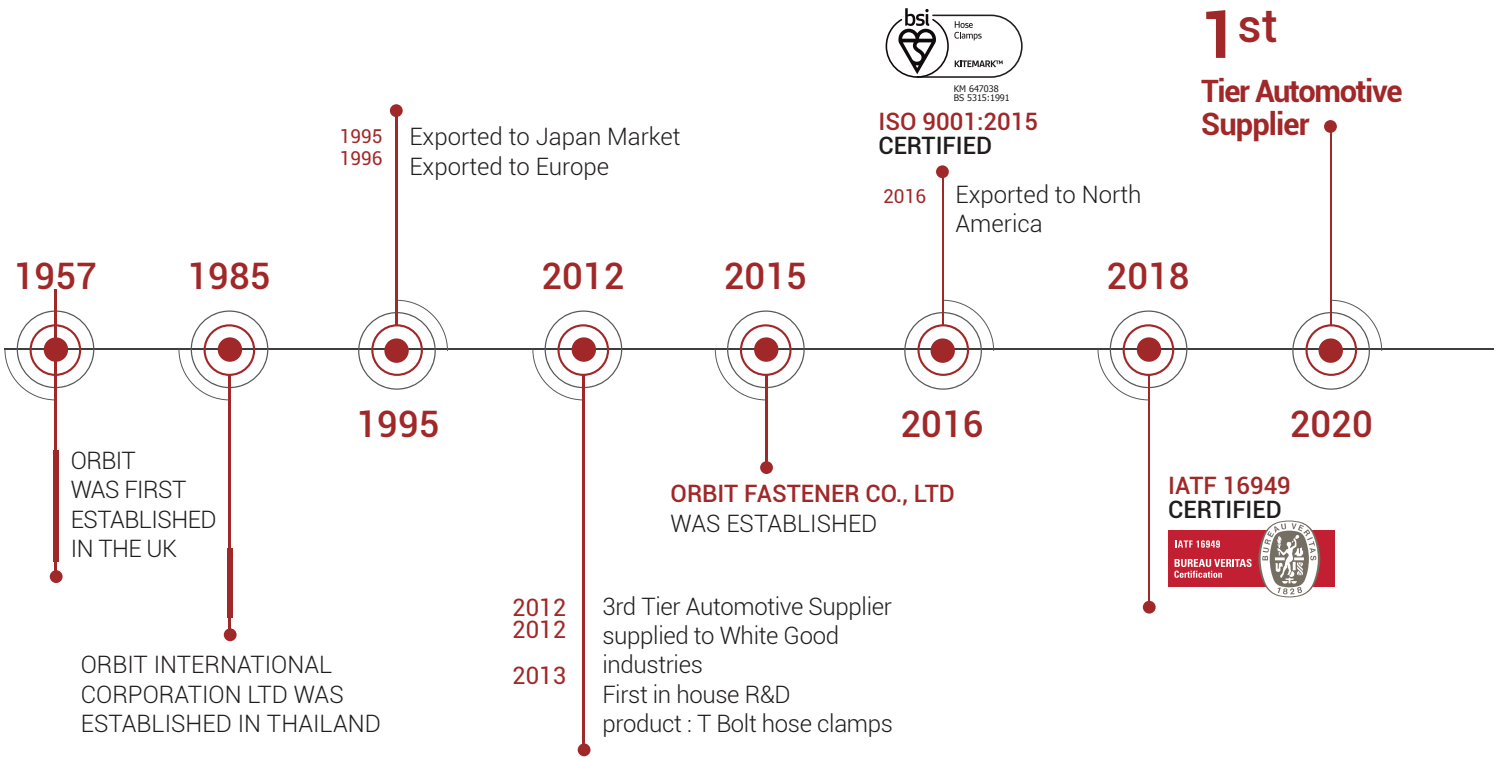
Commercial & Residential Building



Power Plant



OUR MILESTONES



ABOUT US

ORBIT has been a well-known brand of hose clamp in world markets for more than 60 years. It was established in the UK in 1957 and since then has been well known for its reliability and high quality. In 1985, Orbit has relocated all manufacturing facilities to Thailand. Orbit could continue servicing existing customers in Europe and furthermore develop new markets throughout the ASEAN region and subsequently, the World. In 2016, we are the first BSI Kitemark™ certified hose clamp manufacturer in Asia.

In 2019 we are IATF 16949 certified for automotive industries. We are accepted and distributed to various industries including hardware, tooling, agricultural,



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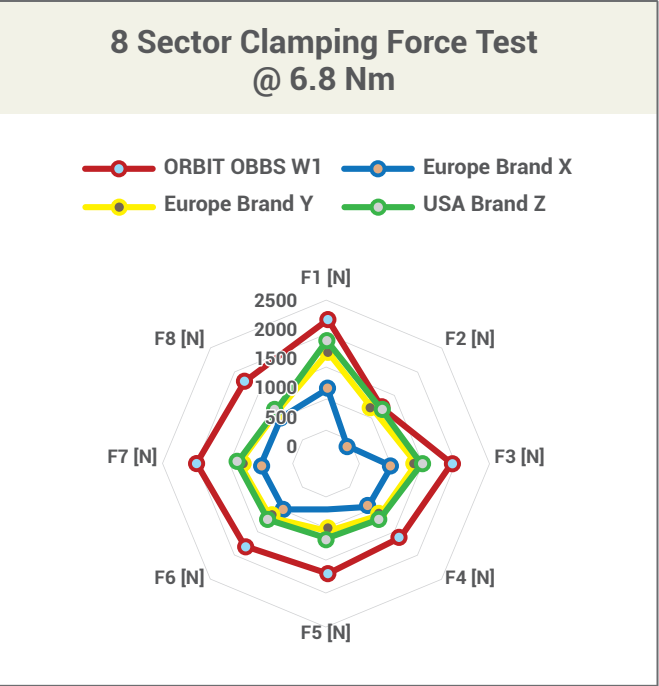
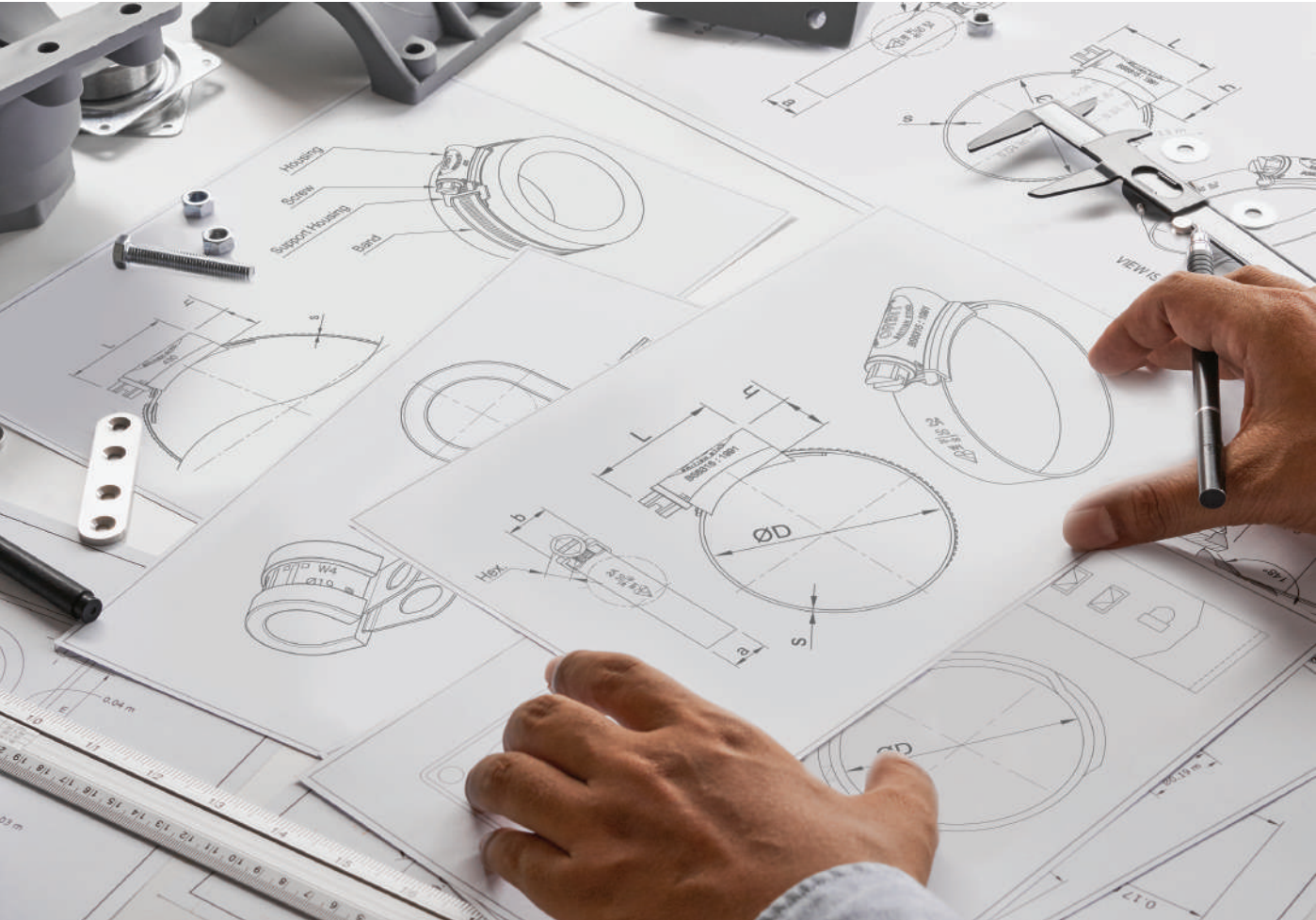
ORBIT CLAMP ENGINEERING

Worm drive hose clamp employ worm gear system to tighten a hose. Therefore, it is critical that both parts, band serration and screw thread, work together flawlessly to ensure low friction and high performance. It mainly depends on 4 components which are band, screw thread, house geometry and band tension.

Orbit hose clamp are manufactured according to BS 5315:1991 standard and our material are special cold rolled steel with cold press forming. Solid band forming provide higher band tension compare to normal perforated hose clamp. Our design provides more smooth contact surface which ensures low friction in the system and can achieve high tightening torque and sealability.

Please note that International standard for hose clamp indicates maximum destructive torque and recommended tightening torque for each diameter. Not only that we follow the standard strictly, but ORBIT hose clamp also perform above industry standard.

We are proud to be the first BS Kitemark certified hose clamp outside Europe. Our product and tested and certified by the British Standard Institute of United Kingdom (BSI). Our products are tested in aspect of pressure test, free torque test, destructive torque test, corrosion test and band tension test.



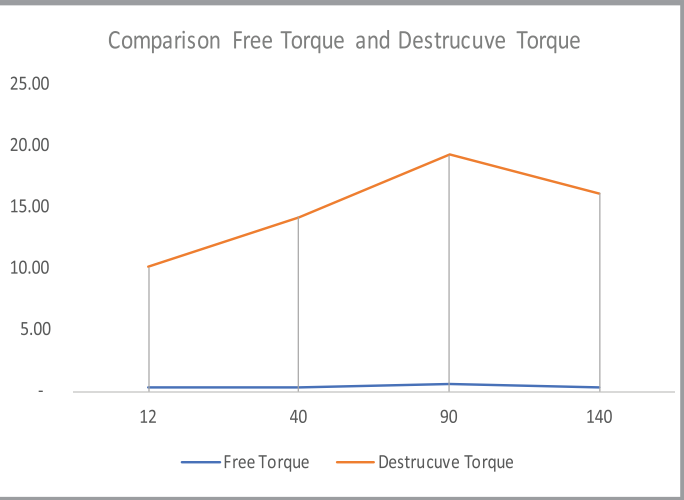
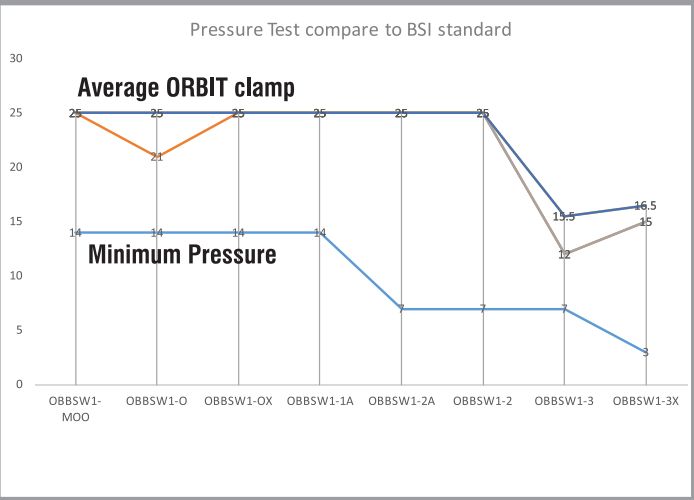
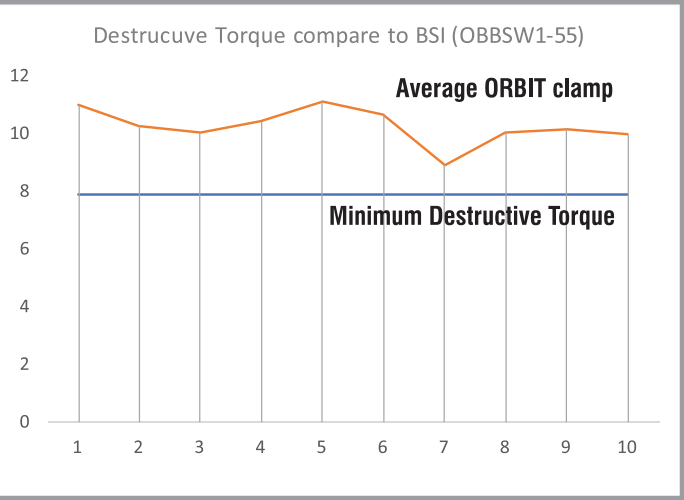
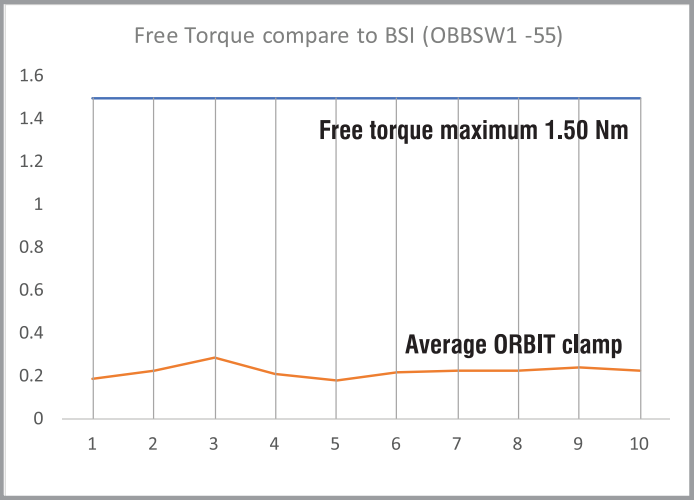
Hose clamp performance is not determined only by high destructive torque or high corrosion resistance, but rather if there is no leakage after being installed.

To ensure zero leakage, all related components must be considered including hose material, pressure, type of pipe connector and including fluid property.

Over tightening does not ensure zero leakage, because not only it could damage hose, but also damage hose connector especially if it is made from plastic.

Each Orbit clamp has high engagement area between the screw thread and the band. which results in the less friction while tightening.

The less friction in the system, the higher output and better hose clamps performances.

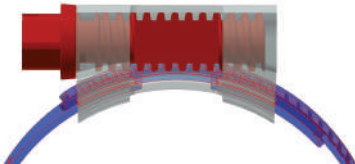


Data from Testing ORBIT hose clamp compare to BS5315:1991 standard

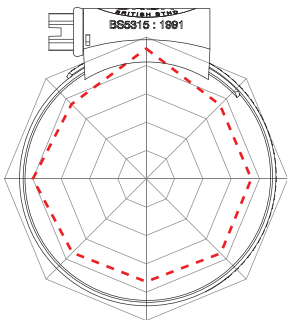
INSTALLATION

To choose correct type of hose clamp, user can consider 5 factors as follow: (S.T.A.M.P.)

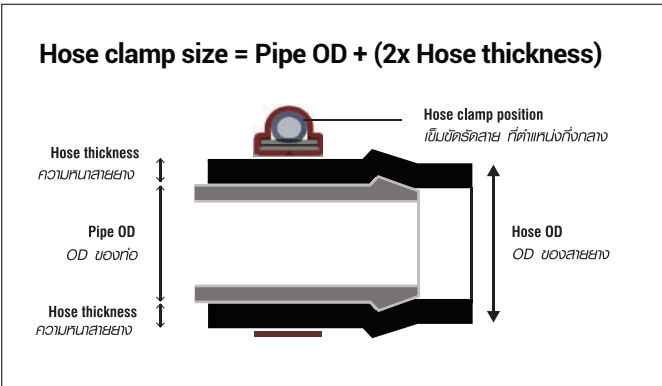
- S (Size) ID/ OD/ Hose thickness
- T (Temperature) Min Max working Temperature
- A (Application) Indoor/ Outdoor/ Type of hose
- M (Material) Hose material
- P (Pressure) Working Pressure/ Burst pressure



Precised forming between serration, screw, and housing allow smooth and low tightening force, while allow high destructive torque.



Clamping performance is determined by radial clamping force from all direction



- Choose hose with ID smaller than pipe fitting OD. When hose is fitted into the pipe, hose ID should expand to fit the pipe properly and hose clamp will be used to tight the connection as in the picture. Recommended hose thickness should be around 3-4 mm.
- Choose the right hose clamp diameter. If hose clip's size is too big compare to hose's OD, protrude part will be too long and not only it could cause accident, but it could also leak due to improper installation too. Please avoid installing bigger hose clamp to a much smaller pipe.
- It is best to use hose-to-pipe connector, hose nipple or hose barb for installation. Avoid installing hose to a cut pipe with smooth surface which will provide low pull-off force.
- Consider installing 2 hose clips for critical application if space provided.
- Install hose clips in the middle of hose fitting with about ¼ inch space from hose edge.
- For thick wall hose or hose will high shore hardness, please consider using heavy duty hose clamp instead.

Choose proper installation tool with 7 mm. hexagon screw head and tightening within recommend tightening torque to avoid damaging the hose. ORBIT Flexi screw driver is recommended for narrow space installation.

MATERIAL AND SIZING CROSS REFERENCE

We provide different material of hose clamp for each specific application which material selection is as in the table below.

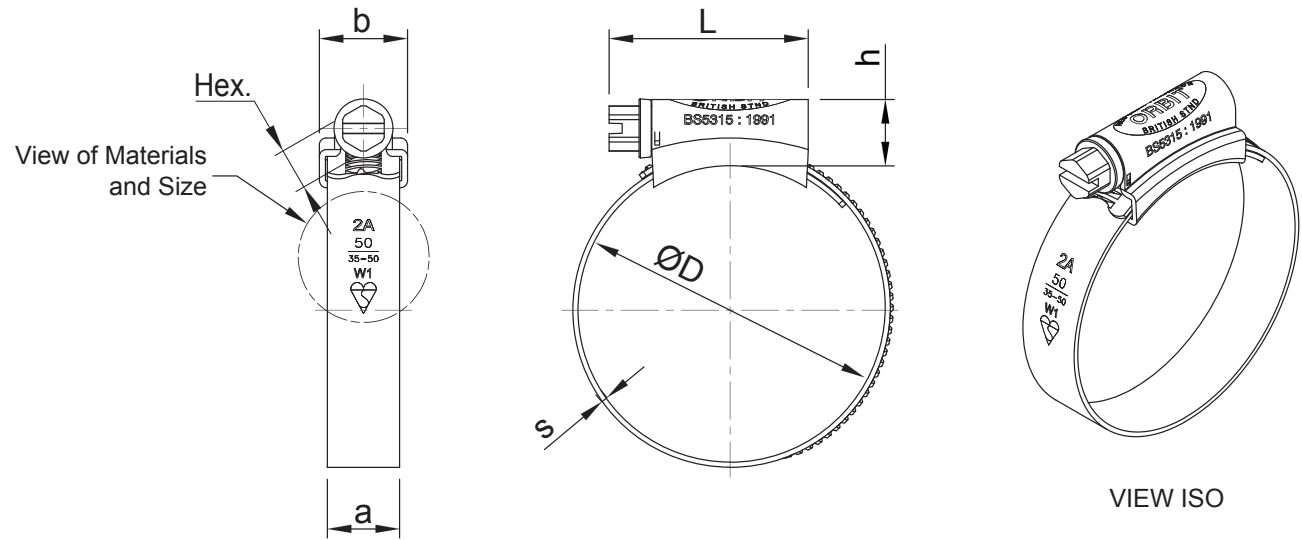
		DIN	AISI	SAE	Japan	Corrosion	Application		
W1	Zinc Plated Steel					144 Hrs	Household		
W2	House / Band from 430 with zinc plated screw					144 Hrs	Automotives, Mechanical Equipment		
W3	1.4016	430	51430	SUS 430	400 Hrs	Automotives, Original Equipment			
W4	1.4301	304	30304	SUS 304	500 Hrs	Industrial, Automotives			
W5	1.4571	316	30316	SUS 316	1000 Hrs	Ship Building, Marine industries			
BS				SAE			DIN		
BS Size	Clamping Range (mm)		Bandwidth (mm)	SAE Size	Clamping Range (mm)	Bandwidth (mm)	Din Size	Clamping Range (mm)	Bandwidth
12	OOO	9.5 - 12	9.5	3	6 - 13	7.9	12	8 - 12	9.5
16	MOO	11 - 16	9.5	4	8 - 16	7.9	16	10 - 16	9.5
20	OO	13 - 20	9.5	5	8 - 19	7.9	20	12 - 20	9.5
21	OOX	16 - 21	12.2	6	10 - 22	12.7	22	12 - 22	9.5/12.2
22	O	16 - 22	12.2						
25	OX	18 - 25	12.2	8	11 - 25	7.9/12.7	27	16 - 27	9.5/12.2
30	1A	22 - 30	12.2	10	13 - 27	7.9/12.7			
35	1	25 - 35	12.2	12	13 - 32	12.7	32	20 - 32	9.5/12.2
40	1X	30 - 40	12.2	16	18 - 38	7.9/12.7	40	20 - 32	9.5/12.2
45	1M	35 - 45	12.2	20	19 - 44	7.9/12.7	45	25 - 40	9.5/12.2
50	2A	35 - 50	12.2	24	25 - 51	12.7	50	30 - 45	9.5/12.2
55	2	40 - 55	12.2	28	32 - 57	12.7	60	40 - 60	9.5/12.2
60	2X	45 - 60	12.2	32	38 - 63	12.7	70	40 - 60	9.5/12.2
70	3	55 - 70	12.2	36	19 - 70	12.7			
80	3X	60 - 80	12.2	40	26 - 76	12.7	80	60 - 80	9.5/12.2
				44	32 - 82	12.7			
90	4	70 - 90	12.2	48	38 - 89	12.7	90	60 - 80	9.5/12.2
100	4X	85 - 100	12.2	52	44 - 95	12.7	100	80 - 100	9.5/12.2
				56	51 - 101	12.7			
120	5	90 - 120	12.2	60	57 - 108	12.7	110	90 - 110	9.5/12.2
				64	64 - 114	12.7	120	100 - 120	9.5/12.2
125	6	100 - 125	12.2	72	76 - 127	12.7	130	110 - 130	9.5/12.2
140	6M	120 - 140	12.2	80	89 - 140	12.7	140	120 - 140	9.5/12.2
150	6X	130 - 150	12.2	88	102 - 152	12.7	150	130 - 150	9.5/12.2
160	7	130 - 160	12.2	96	114 - 165	12.7	160	140 - 160	9.5/12.2
180	8	150 - 180	12.2	104	127 - 178	12.7	-	-	-
200	9	170 - 200	12.2	112	140 - 190	12.7	-	-	-
				116	146 - 197	12.7	-	-	-
				120	152 - 203	12.7	-	-	-
-	-	-	-	128	165 - 216	12.7	-	-	-
230	10	190 - 230	12.2	132	171 - 222	12.7	-	-	-
				140	184 - 235	12.7	-	-	-
250	11	220 - 250	12.2	152	203 - 254	12.7	-	-	-
280	12	240 - 280	12.2	164	222 - 273	12.7	-	-	-
				176	241 - 292	12.7	-	-	-
300	13	270 - 300	12.2	188	260 - 311	12.7	-	-	-
330	14	290 - 330	12.2	-	-	-	-	-	-
-	-	-	-	208	292 - 343	12.7	-	-	-
-	-	-	-	212	298 - 349	12.7	-	-	-
360	15	320 - 360	12.2	224	318 - 368	12.7	-	-	-
380	16	350 - 380	12.2	236	336 - 387	12.7	-	-	-
-	-	-	-	248	355 - 406	12.7	-	-	-
-	-	-	-	270	391 - 441	12.7	-	-	-
-	-	-	-	312	457 - 508	12.7	-	-	-
-	-	-	-	332	489 - 540	12.7	-	-	-
-	-	-	-	390	585 - 636	12.7	-	-	-
-	-	-	-	502	761 - 812	12.7	-	-	-
-	-	-	-	538	818 - 869	12.7	-	-	-
-	-	-	-	569	868 - 919	12.7	-	-	-

ORBIT OBBS ORIGINAL

ORBIT OBBS are strictly manufactured according to BS 5315 and has British Standard Kitemark™ approval. It is design to optimize free torque and destructive torque. With thick and high tensile band, it provide greater band tension for high seal ability. Smooth inner band provides best hose surface protection.

ORBIT Mild Steel Hose clamp W1 are available in following options;

- Yellow Chromate (Cr6) or Blue Chromate (Cr3)
- Normal Serration or Full Serrations
- Thumb screw with or without PVC cover



CORROSION RESISTANCE
Salt Spray Testing > 144 hours for red rust formation.



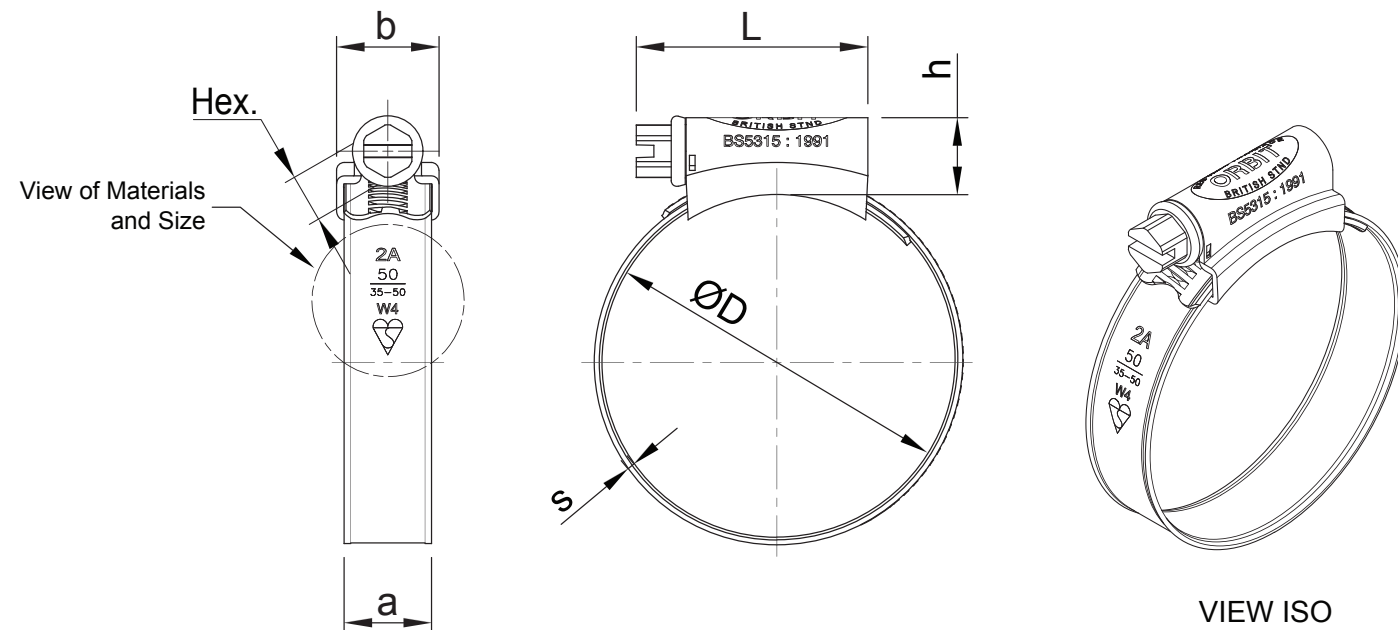
Size and Diameter				Dimension (mm)					Packing	
BS Size	Old Size	mm	Inches	a (+0.2)	b	L	s	Hex	PU	IC
12	000	9.5-12	3/8 - 1/2	9.5	12.3	19	0.93	7	100	1500
16	M00	11-16	7/16 - 5/8	9.5	12.3	19	0.93	7	100	2000
20	00	13-20	1/2 - 3/4	9.5	12.3	19	0.93	7	100	2000
22	0	16-22	5/8 - 7/8	12	14.65	24	0.93	7	100	1200
25	0X	18-25	3/4 - 1	12	14.65	24	0.93	7	100	1200
30	1A	22-30	7/8 - 1 1/8	12	14.65	24	0.93	7	100	1200
35	1	25-35	1 - 1 3/8	12	14.65	24	0.93	7	50	1000
40	1X	30-40	1 1/8 - 1 5/8	12	14.65	24	0.93	7	50	1000
45	1M	35-45	1 3/8 - 1 3/4	12	14.65	24	0.93	7	50	1000
50	2A	35-50	1 3/8 - 2	12	14.65	33	0.93	7	50	600
55	2	40-55	1 5/8 - 2 1/8	12	14.65	33	0.93	7	50	600
60	2X	45-60	1 3/4 - 2 3/8	12	14.65	33	0.93	7	50	600
70	3	55-70	2 1/8 - 2 3/4	12	14.65	33	0.93	7	50	600
80	3X	60-80	2 3/8 - 3 1/8	12	14.65	33	0.93	7	50	600
90	4	70-90	2 3/4 - 3 1/2	12	14.65	33	0.93	7	25	300
100	4X	85-100	3 3/8 - 4	12	14.65	33	0.93	7	25	300
120	5	90-120	3 1/2 - 4 3/4	12	14.65	33	0.93	7	25	300
125	6	100-125	4 - 5	12	14.65	33	0.93	7	25	300
140	6M	120-140	4 3/4 - 5 1/2	12	14.65	33	0.93	7	25	300
150	6X	130-150	5 1/8 - 5 7/8	12	14.65	33	0.93	7	25	300
160	7	130-160	5 1/8 - 6 1/4	12	14.65	33	1.0	7	10	150
180	8	150-180	5 7/8 - 7 1/8	12	14.65	33	1.0	7	10	150
200	9	170-200	6 11/16 - 7 7/8	12	14.65	33	1.0	7	10	100
230	10	190-230	7 1/2 - 9	12	14.65	33	1.0	7	10	100
250	11	220-250	8 5/8 - 9 7/8	12	14.65	33	1.0	7	10	100
280	12	240-280	9 1/2 - 11	12	14.65	33	1.0	7	10	100
300	13	270-300	10 5/8 - 11 3/4	12	14.65	33	1.0	7	10	50
330	14	290-330	11 3/8 - 13	12	14.65	33	1.0	7	10	50
360	15	320-360	12 1/2 - 14 1/8	12	14.65	33	1.0	7	10	50
380	16	350-380	13 3/4 - 15	12	14.65	33	1.0	7	10	50

Material **W1**

PU : Packing Unit
IC : Industrial Carton

ORBIT OBBS STAINLESS

ORBIT OBBS Stainless are strictly manufactured according to BS 5315 and has British Standard Kite-mark™ approval. It is design to optimize free torque and Destructive Torque. With thick high tensile band, it provide greater band tension for high seal ability. Smooth inner band provides best hose surface protection. ORBIT OBBS stainless steel hose clamps are available in various type of material for different application from industrial use to marine application. Material are available from 430 stainless steel 304 18/8 stainless steel to 316 stainless steel.



Size and Diameter				Dimension (mm)					Packing	
BS Size	Old Size	mm	Inches	a (+0.2)	b	L	s	Hex	PU	IC
12	000	9.5-12	3/8 - 1/2	9.5	12.3	19	0.8	7	10	2000
16	M00	11-16	7/16 - 5/8	9.5	12.3	19	0.8	7	10	2000
20	00	13-20	1/2 - 3/4	9.5	12.3	19	0.8	7	10	2000
22	0	16-22	5/8 - 7/8	12	14.65	24	0.8	7	10	1200
25	0X	18-25	3/4 - 1	12	14.65	24	0.8	7	10	1200
30	1A	22-30	7/8 - 1 1/8	12	14.65	24	0.8	7	10	1200
35	1	25-35	1 - 1 3/8	12	14.65	24	0.8	7	10	1000
40	1X	30-40	1 1/8 - 1 5/8	12	14.65	24	0.8	7	10	1000
45	1M	35-45	1 3/8 - 1 3/4	12	14.65	24	0.8	7	10	600
50	2A	35-50	1 3/8 - 2/1	12	14.65	33	0.8	7	10	600
55	2	40-55	1 5/8 - 2 1/8	12	14.65	33	0.8	7	10	600
60	2X	45-60	1 3/4 - 2 3/8	12	14.65	33	0.8	7	10	600
70	3	55-70	2 1/8 - 2 3/4	12	14.65	33	0.8	7	10	300
80	3X	60-80	2 3/8 - 3 1/8	12	14.65	33	0.8	7	5	300
90	4	70-90	2 3/4 - 3 1/2	12	14.65	33	0.8	7	5	300
100	4X	85-100	3 3/8 - 4/1	12	14.65	33	0.8	7	5	150
120	5	90-120	3 1/2 - 4 3/4	12	14.65	33	0.8	7	5	150
125	6	100-125	4 - 5	12	14.65	33	0.8	7	5	150
140	6M	120-140	4 3/4 - 5 1/2	12	14.65	33	0.8	7	5	150
150	6X	130-150	5 1/8 - 5 7/8	12	14.65	33	0.8	7	5	150
160	7	130-160	5 1/8 - 6 1/4	12	14.65	33	0.8	7	BULK	150
180	8	150-180	5 7/8 - 7 1/8	12	14.65	33	0.8	7	BULK	150
200	9	170-200	6 11/16 - 7 7/8	12	14.65	33	0.8	7	BULK	100
230	10	190-230	7 1/2 - 9/1	12	14.65	33	0.8	7	BULK	100
250	11	220-250	8 5/8 - 9 7/8	12	14.65	33	0.8	7	BULK	100
280	12	240-280	9 1/ - 11/1	12	14.65	33	0.8	7	BULK	100
300	13	270-300	10 5/8 - 11 3/4	12	14.65	33	0.8	7	BULK	50
330	14	290-330	11 3/8 - 13/1	12	14.65	33	0.8	7	BULK	50
360	15	320-360	12 1/2 - 14 1/8	12	14.65	33	0.8	7	BULK	50
380	16	350-380	13 3/4 - 15/1	12	14.65	33	0.8	7	BULK	50

Material **W2** **W3** **W4** **W5**

PU : Packing Unit
IC : Industrial Carton

ORBIT GRIP

ORBIT Grip hose clamp is manufactured and tested according to the German Standard DIN3017. It is developed to supply all applications that require this German Standard specification (DIN3017). The price is comparable to W1 while the corrosion resistance is better. Unlike other DIN clips in the market, ORBIT GRIP's band thread is precisely cold formed which results in a smooth underside surface to optimize hose surface protection.



Bandwidth 9.5 mm

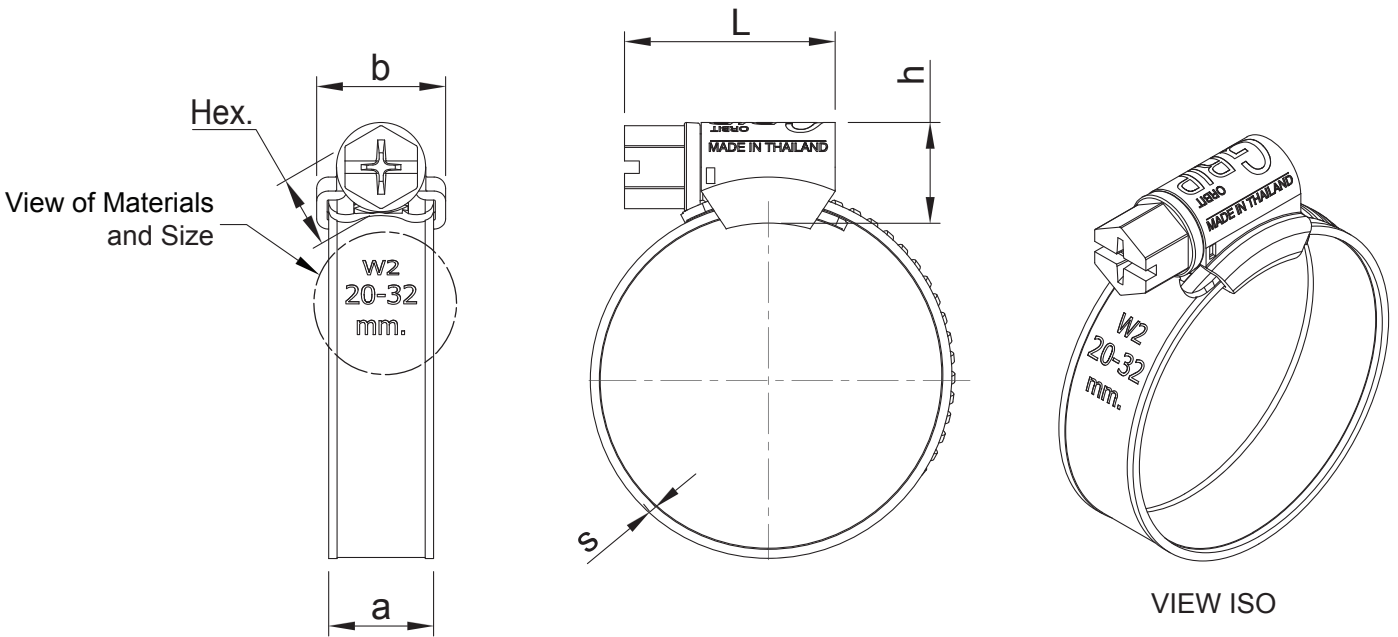
Size and Diameter			Dimension (mm)					Packing	
Size	mm	Inches	a	b	L	s	Hex	PU	IC
12	8-12	5/16 - 1/2	9.5	12.3	20.4	0.8	7	50	2000
16	10-16	3/8 - 5/8	9.5	12.3	20.4	0.8	7	50	2000
20	12-20	1/2 - 3/4	9.5	12.3	20.4	0.8	7	50	2000
22	12-22	1/2 - 7/8	9.5	12.3	20.4	0.8	7	50	1200
25	16-25	5/8 - 1	9.5	12.3	20.4	0.8	7	50	1200
27	16-27	5/8 - 11/16	9.5	12.3	20.4	0.8	7	50	1000
32	20-32	3/4 - 1 1/4	9.5	12.3	23.8	0.8	7	50	1000
40	25-40	1 - 1 5/8	9.5	12.3	23.8	0.8	7	50	1000
45	30-45	13/16-13/4	9.5	12.3	23.8	0.8	7	50	600
50	35-50	1 3/8 - 2	9.5	12.3	23.8	0.8	7	50	600
60	40-60	1 5/8 - 2 3/8	9.5	12.3	23.8	0.8	7	50	600
70	50-70	1 7/8 - 2 3/4	9.5	12.3	27.5	0.8	7	50	600
80	60-80	2 3/8 - 3 1/8	9.5	12.3	27.5	0.8	7	50	600
90	70-90	2 3/4 - 3 1/2	9.5	12.3	27.5	0.8	7	25	300
100	80-100	3 1/8 - 4	9.5	12.3	27.5	0.8	7	25	300
110	90-110	3 1/2 - 4 3/8	9.5	12.3	27.5	0.8	7	25	300
120	100-120	4 - 4 3/4	9.5	12.3	32.6	0.8	7	25	300
130	110-130	4 3/8 - 5 1/8	9.5	12.3	32.6	0.8	7	25	300
140	120-140	4 3/4 - 5 1/2	9.5	12.3	32.6	0.8	7	25	300
150	130-150	5 - 5 3/4	9.5	12.3	32.6	0.8	7	25	300
160	140-160	5 1/2 - 6 1/4	9.5	12.3	32.6	0.8	7	25	150

Bandwidth 12 mm

Size and Diameter			Dimension (mm)					Packing	
Size	mm	Inches	a	b	L	s	Hex	PU	IC
27	16-27	5/8 - 11/16	12	14.65	23.8	0.8	7	50	1000
32	20-32	3/4 - 1 1/4	12	14.65	23.8	0.8	7	50	1000
40	25-40	1 - 1 5/8	12	14.65	23.8	0.8	7	50	1000
45	30-45	13/16-13/4	12	14.65	23.8	0.8	7	50	600
50	35-50	1 3/8 - 2	12	14.65	32.6	0.8	7	50	600
60	40-60	1 5/8 - 2 3/8	12	14.65	32.6	0.8	7	50	600
70	50-70	1 7/8 - 2 3/4	12	14.65	32.6	0.8	7	50	600
80	60-80	2 3/8 - 3 1/8	12	14.65	32.6	0.8	7	50	600
90	70-90	2 3/4 - 3 1/2	12	14.65	32.6	0.8	7	25	300
100	80-100	3 1/8 - 4	12	14.65	32.6	0.8	7	25	300
110	90-110	3 1/2 - 4 3/8	12	14.65	32.6	0.8	7	25	300
120	100-120	4 - 4 3/4	12	14.65	32.6	0.8	7	25	300
130	110-130	4 3/8 - 5 1/8	12	14.65	32.6	0.8	7	25	300
140	120-140	4 3/4 - 5 1/2	12	14.65	32.6	0.8	7	25	300
150	130-150	5 - 5 3/4	12	14.65	32.6	0.8	7	25	300
160	140-160	5 1/2 - 6 1/4	12	14.65	32.6	0.8	7	25	150

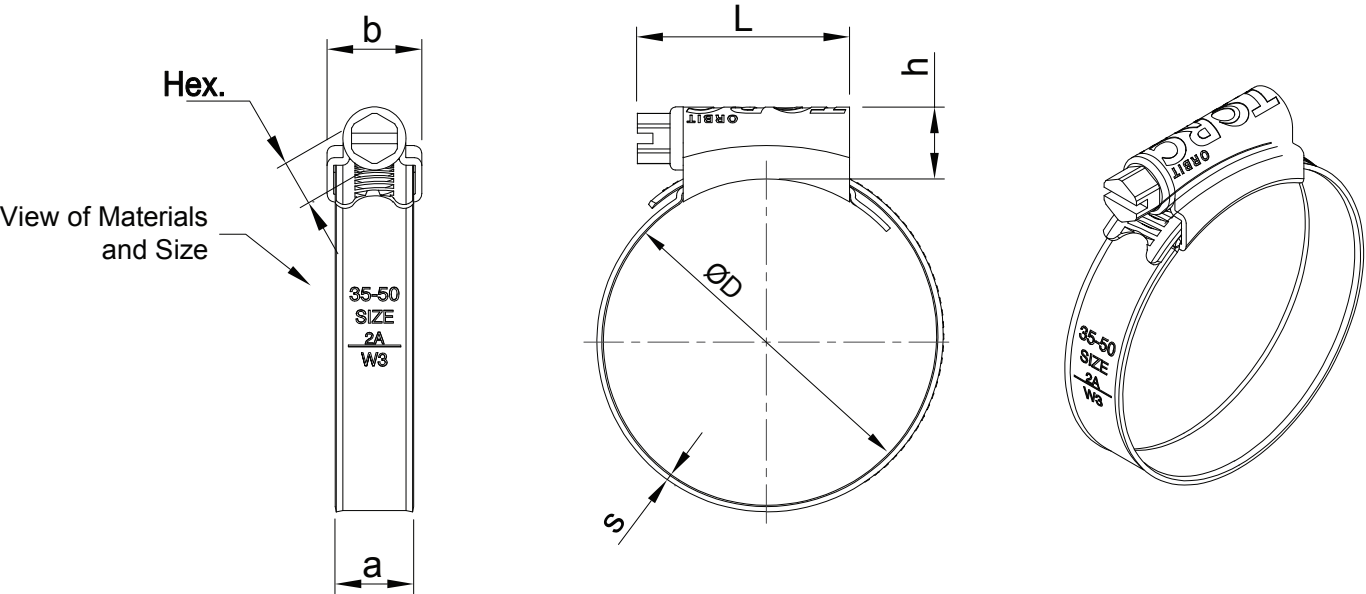
Material W2

PU : Packing Unit
IC : Industrial Carton



ORBIT TORC (STAINLESS 430)

ORBIT Torc W3 is made entirely of 430 Stainless Steel including banding, housing and screw, it is specially designed to increase the destructive torque when compared to a normal hose clip. ORBIT TORC W3 is suitable for high pressure pumps, turbo engines, fishing boats, other industrial applications which need high torque with a medium requirement in terms of corrosion resistance.



Size and Diameter			Dimension (mm)					Packing	
Size	mm	Inches	a (+0.2)	b	L	s	Hex	PU	IC
000	9.5-12	3/8 - 1/2	9.5	12.3	19	0.8	7	25	2,000
MOO	11-16	1/2 - 5/8	9.5	12.3	19	0.8	7	25	2,000
00	13-20	1/2 - 3/4	9.5	12.3	19	0.8	7	25	1,200
0	16-22	5/8 - 7/8	12	14.65	24	0.8	7	25	1,200
OX	18-25	3/4 - 1	12	14.65	24	0.8	7	25	1,200
1A	22-30	7/8 - 1 1/8	12	14.65	24	0.8	7	25	1,000
1	25-35	1 - 1 3/8	12	14.65	24	0.8	7	25	1,000
1X	30-40	1 1/8 - 1 5/8	12	14.65	24	0.8	7	25	1,000
1M	35-45	1 3/8 - 1 3/4	12	14.65	24	0.8	7	25	600
2A	35-50	1 3/8 - 2	12	14.65	33	0.8	7	25	600
2	40-55	1 5/8 - 2 1/8	12	14.65	33	0.8	7	25	600
2X	45-60	1 3/4 - 2 3/8	12	14.65	33	0.8	7	25	600
3	55-70	2 - 2 3/4	12	14.65	33	0.8	7	5	300
3S	50-75	2 - 3	12	14.65	33	0.8	7	5	300
3X	60-80	2 3/8 - 3 1/8	12	14.65	33	0.8	7	5	300
4	70-90	2 3/4 - 3 1/2	12	14.65	33	0.8	7	5	300
4X	85-100	3 1/8 - 4	12	14.65	33	0.8	7	5	150
5	90-120	3 1/2 - 4 3/4	12	14.65	33	0.8	7	5	150
6	100-125	4 - 5	12	14.65	33	0.8	7	5	150
6M	120-140	4 3/4 - 5 1/2	12	14.65	33	0.8	7	5	150
6X	130-150	5 1/8 - 5 7/8	12	14.65	33	0.8	7	5	150
7	130-160	5 1/8 - 6 1/4	12	14.65	33	0.8	7	10	150
8	150-180	5 7/8 - 7 1/8	12	14.65	33	0.8	7	10	100
9	170-200	6 5/8 - 7 7/8	12	14.65	33	0.8	7	10	100
10	190-230	7 1/2 - 9	12	14.65	33	0.8	7	10	100
11	220-250	8 5/8 - 9 7/8	12	14.65	33	0.8	7	10	100
12	240-280	9 1/2 - 11	12	14.65	33	0.8	7	10	100

Material **W3**

PU : Packing Unit
IC : Industrial Carton

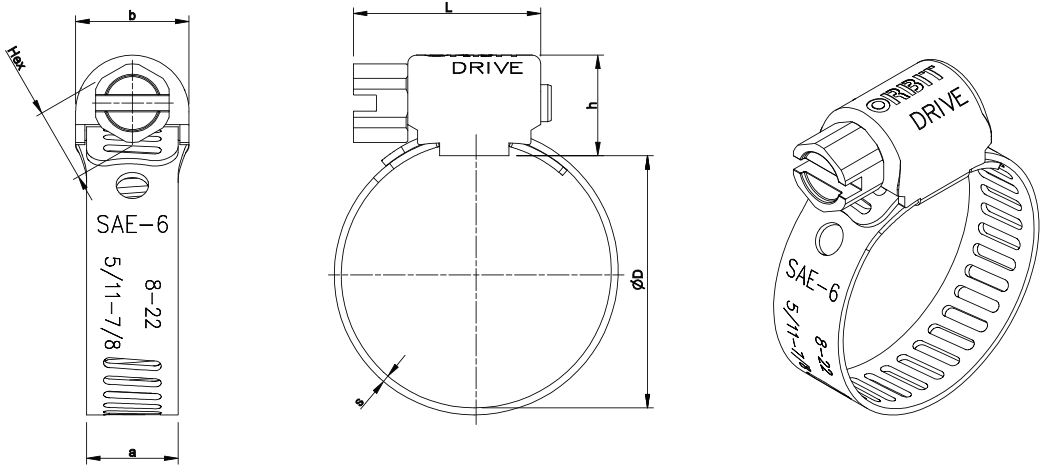
ORBIT NANODRIVE

ORBIT ACCUDRIVE

ORBIT NANODRIVE AND ORBIT ACCUDRIVE are made and tested according to American standard SAE J1508. It's suitable for connecting a high pressure hose that requires high tightening torque. The perforation at the band tightens the connection and attachment and provides a suitable pressure seal. Suitable for all applications.



Material	
Band	SS301
Housing	SS301
Screw	SS304



ORBIT NANO DRIVE 300

Bandwidth 5/16" (7.9mm) | Hex Head 1/4"

Size and Diameter			a	b	h	L	t	HEX (inch)	Packing	
SAE Size	mm	Inches							PU	IC
3	6-13	7/32" - 1/2"	7.9	9.8	8.7	16.2	0.6	6.35	25	1000
4	8-16	5/16" - 5/8"	7.9	9.8	8.7	16.2	0.6	6.35	25	1000
5	8-19	5/16" - 3/4"	7.9	9.8	8.7	16.2	0.6	6.35	25	1000
6	8-22	5/16" - 7/8"	7.9	9.8	8.7	16.2	0.6	6.35	25	1000
8	11-25	7/16" - 1"	7.9	9.8	8.7	16.2	0.6	6.35	25	1000
10	13-27	1/2" - 1 1/16"	7.9	9.8	8.7	16.2	0.6	6.35	25	450
12	14-32	9/16" - 1 1/4"	7.9	9.8	8.7	16.2	0.6	6.35	25	450
16	18-38	11/16" - 1 1/2"	7.9	9.8	8.7	16.2	0.6	6.35	25	450
20	19-44	3/4" - 1 3/4"	7.9	9.8	8.7	16.2	0.6	6.35	25	450

Additional sizes are available upon request according to the volume.

ORBIT ACCU DRIVE 300

Bandwidth 1/2" (12.7mm) | Hex Head 5/16"

Size and Diameter			a	b	h	L	t	HEX (inch)	Packing	
SAE Size	mm	Inches							PU	IC
6	10-22	3/8" - 7/8"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	1000
8	11-25	7/16" - 1"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	450
10	13-27	1/2" - 1 1/16"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	450
12	13-32	1/2" - 1 1/4"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	450
16	18-38	11/16" - 1 1/2"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	450
20	19-44	3/4" - 1 3/4"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	400
24	25-51	1" - 2"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	400
28	32-57	1 1/4" - 2 1/4"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	400
32	38-63	1 1/2" - 2 1/2"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	400
36	19-70	3/4" - 2 3/4"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	400
40	26-76	1" - 3"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	300
44	32-82	1 1/4" - 3 1/4"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	300
48	38-89	1 1/2" - 3 1/2"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	300
52	44-95	1 3/4" - 3 3/4"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	300
56	51-102	2" - 4"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	300
60	57-108	2 1/4" - 4 1/4"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	300
64	64-114	2 1/2" - 4 1/2"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	300
72	76-127	3" - 5"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	300
80	89-140	3 1/2" - 5 1/2"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	25	300
88	102-152	4" - 6"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	10	150
96	114-165	4 1/2" - 6 1/2"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	10	150
104	127-178	5" - 7"	12.7	14.7	10.4	26.8	0.6	7.9 (5/16 Inch)	10	150

Additional sizes are available upon request according to the volume.

PU : Packing Unit
IC : Industrial Carton

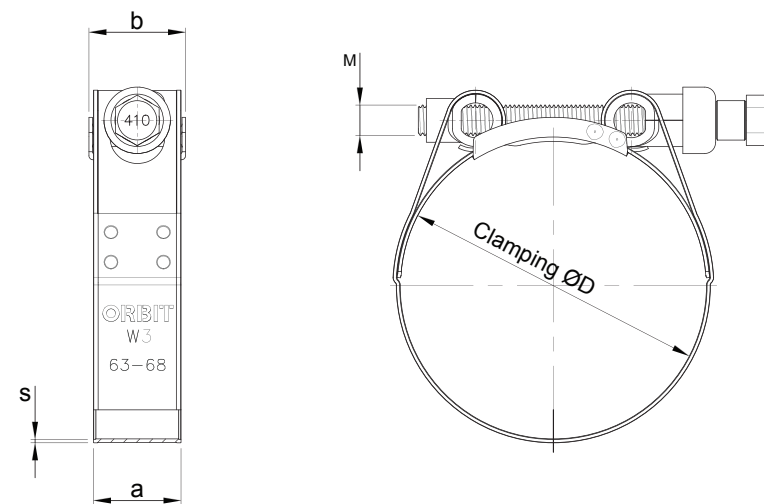
ORBIT HEAVY DUTY

ORBIT SUPERGEAR AND ORBIT HEAVYGEAR offering the highest tightening torques with special 8.8 stainless steel bolt and allow recommended torque of 25 Nm. It is specially designed to exceed DIN standard requirement with low free torque and is suitable for a wide range of industrial applications.

Screw : 410 stainless steel bolt

Band : 430 stainless steel

Corrosion resistance: 144 hours



Section A-A

Isometric View

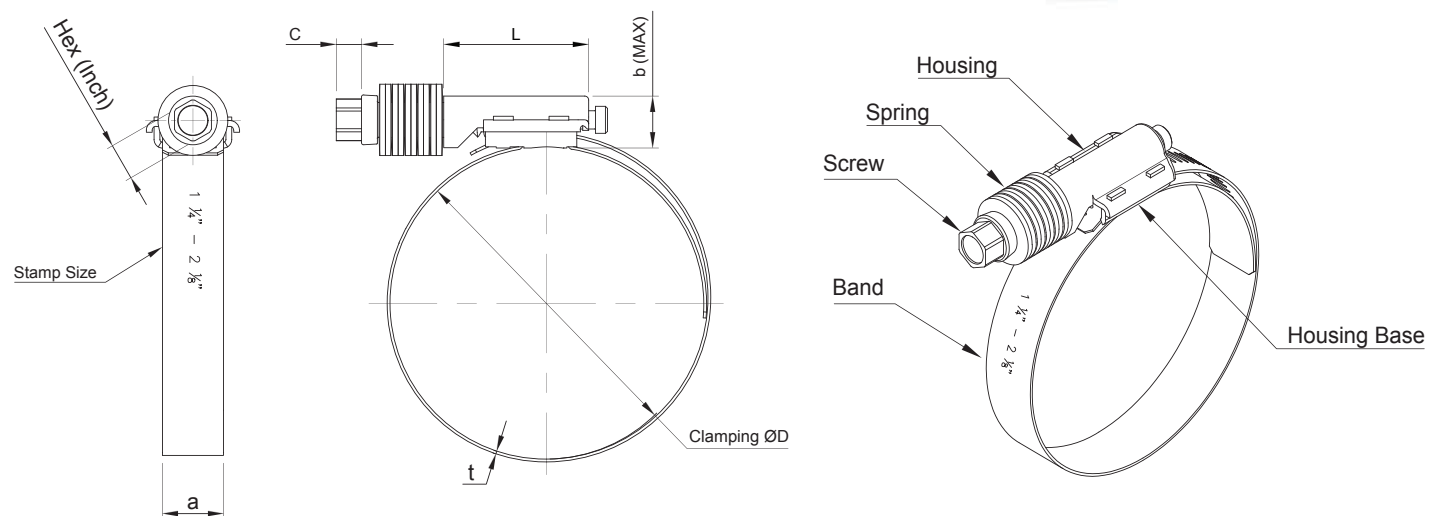
Material **W2** **W4**

PU : Packing Unit
IC : Industrial Carton

Size and Diameter			Dimension (mm)				Packing	
Size	mm	Inches	a	b	s	Hex	PU	IC
19	17-19	11/16-3/4	18	20	0.8	8	25	200
21	19-21	3/4-13/16	18	20	0.8	8	25	200
23	21-23	13/16-7/8	18	20	0.8	8	25	200
25	23-25	7/8-1	18	20	0.8	8	25	200
27	25-27	1-1 1/16	18	20	0.8	8	25	200
29	27-29	1 1/16-1 1/8	18	20	0.8	8	25	200
31	29-31	1 1/8-1 1/4	18	20	0.8	8	25	200
34	31-34	1 1/4-1 5/16	18	20	0.8	8	25	200
37	34-37	1 5/16-1 7/16	18	20	0.8	8	25	200
40	37-40	1 7/16-1 9/16	18	20	0.8	8	25	200
43	40-43	1 9/16-1 11/16	18	20	0.8	8	25	200
47	43-47	1 11/16-1 7/8	20	22	0.8	10	20	100
51	47-51	1 7/8-2	20	22	0.8	10	20	100
55	51-55	2-2 3/16	20	22	0.8	10	20	100
59	55-59	2 3/16-2 5/16	20	22	0.8	10	20	100
63	59-63	2 5/16-2 1/2	20	22	0.8	10	20	100
68	63-68	2 1/2-2 11/16	20	22	0.8	10	20	100
73	68-73	2 11/16-2 7/8	25	27.5	1.0	13	5	100
79	73-79	2 7/8-3 1/8	25	27.5	1.0	13	5	100
85	79-85	3 1/8-3 3/8	25	27.5	1.0	13	5	100
91	85-91	3 3/8-3 9/16	25	27.5	1.0	13	5	100
97	91-97	3 9/16-3 13/16	25	27.5	1.0	13	5	100
104	97-104	3 13/16-4 1/8	25	27.5	1.0	13	5	100
112	104-112	4 1/8-4 7/16	25	27.5	1.0	13	5	100
121	112-121	4 7/16-4 3/4	25	27.5	1.0	13	5	100
130	121-130	4 3/4-5 1/8	25	27.5	1.0	13	5	100
140	130-140	5 1/8-5 1/2	30	32	1.2	16	5	50
150	140-150	5 1/2-5 7/8	30	32	1.2	16	5	20
162	150-162	5 7/8-6 3/8	30	32	1.2	16	5	20
174	162-174	6 3/8-6 7/8	30	32	1.2	16	5	20
187	174-187	6 7/8-7 3/8	30	32	1.2	16	5	20
200	187-200	7 3/8-7 7/8	30	32	1.2	16	5	20
213	200-213	7 7/8-8 3/8	30	32	1.2	16	5	20
226	213-226	8 3/8-8 7/8	30	32	1.2	16	5	20
239	226-239	8 7/8-9 3/8	30	32	1.2	16	5	20
252	239-252	9 3/8-9 15/16	30	32	1.2	16	5	20
265	252-265	9 15/16-10 7/16	30	32	1.2	16	5	20
278	265-278	10 7/16-10 15/16	30	32	1.2	16	5	20
291	278-291	10 15/16-11 7/16	30	32	1.2	16	5	20
304	291-304	11 7/16-12	30	32	1.2	16	5	20
317	304-317	112-12 1/2	30	32	1.2	16	5	20
330	317-330	12 1/2-13	30	32	1.2	16	5	20

ORBIT CONSTANT TENSTION

ORBIT CONSTANT TENSTION is a heavy duty clamp with Belleville spring mechanism which allow clamp to automatically increase or decrease its diameter due to change in operational temperature to prevent "cold flow" leak. It has extra long liner to protect hose surface when tightened. ORBIT constant tension are manufactured and tested according to SAE J1508.



Size and Diameter			Dimension (mm)					HEX (inch)	Packing	
Size	mm	Inches	a	b (MAX.)	c	L	t		PU	IC
212	32 - 54	1 1/4 - 2 1/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	200
262	45 - 67	1 3/4 - 2 5/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	200
312	57 - 79	2 1/4 - 3 1/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	200
362	70 - 92	2 3/4 - 3 5/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	200
412	83 - 105	3 1/4 - 4 1/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
462	95 - 117	3 3/4 - 4 5/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
512	108 - 130	4 1/4 - 5 1/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
562	121 - 143	4 3/4 - 5 5/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
612	133 - 155	5 1/4 - 6 1/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
662	146 - 168	5 3/4 - 6 5/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
712	159 - 181	6 1/4 - 7 5/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
762	172 - 194	6 3/4 - 7 1/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
812	184 - 206	7 1/4 - 8 1/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
862	197 - 219	7 3/4 - 8 5/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100
912	210 - 232	8 1/4 - 9 1/8	15.9 (5/8")	12.6	7	36.5	0.7	3/8"	10	100

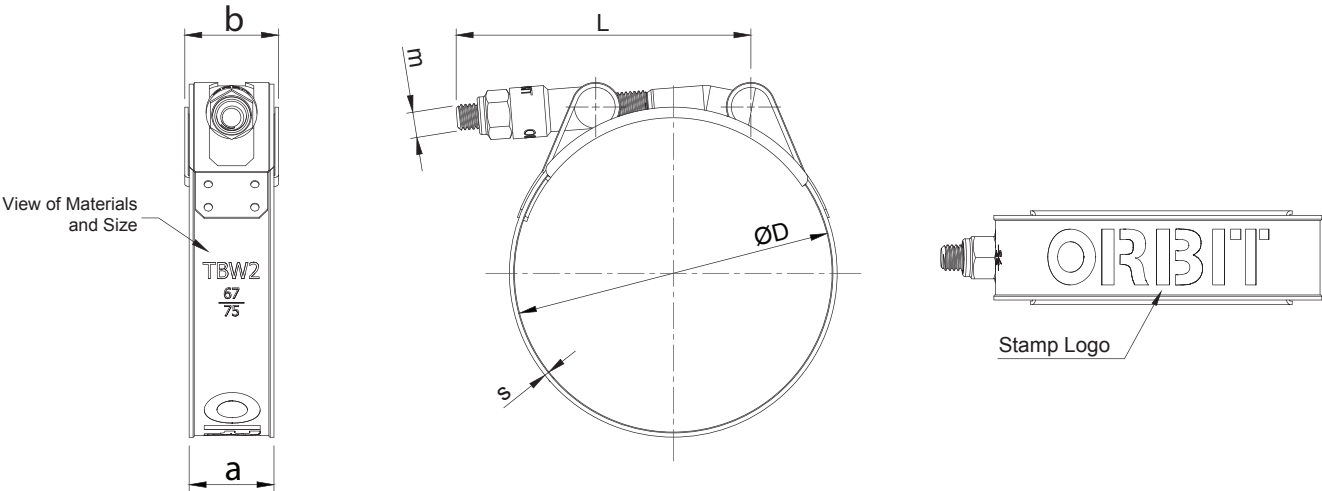
No.	Material	
01	BAND	SS 301
02	Housing BASE	SS 301
03	SCREW	SS 410
04	Housing	SS 304
05	SPRING	SS 400

Material Stainless Series 300

PU : Packing Unit
IC : Industrial Carton

ORBIT TURBO

ORBIT TURBO is made from a 430 stainless steel band with a zinc plated T shaped bolt, while the T bush is made from an aluminum zinc alloy. The T-Bolt clamp provide a uniform sealing pressure for a reliable seal with a narrow band width, suitable for high pressure applications with thick hoses, or turbo exhausting pipes. ORBIT T-Bolt W2 is available in Grade W2. The Band and Bridge are made from 430 stainless steel and a zinc plated T Bolt screw.



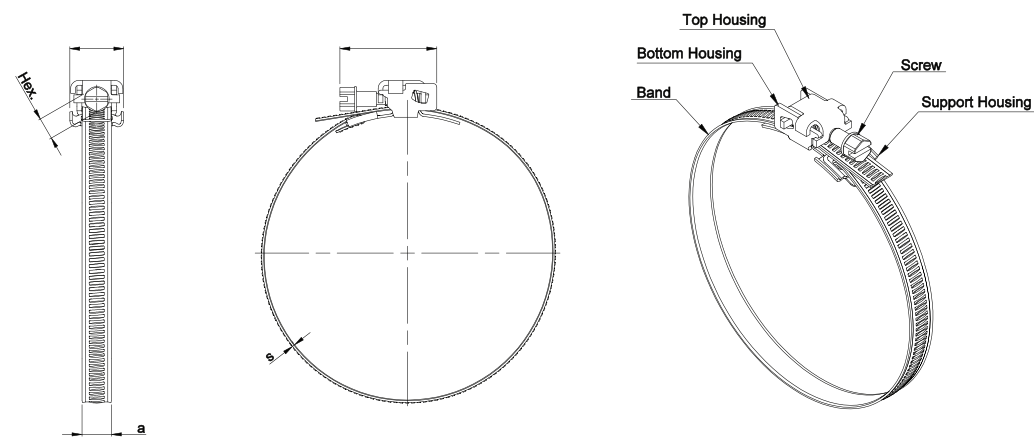
Size and Diameter			Dimension (mm)					Packing	
Size	mm	Inches	a	b	L	s	Hex	PU	IC
39	35-39	1 3/8-1 1/2	20	22	70	0.8	10	20	200
42	38-42	1 1/2-1 5/8	20	22	70	0.8	10	20	200
46	41-46	1 5/8-1 3/4	20	22	70	0.8	10	20	200
51	45-51	1 3/4-2	20	22	70	0.8	10	20	200
56	48-56	1 7/8- 2 3/16	20	22	70	0.8	10	20	200
59	51-59	2-2 5/16	20	22	70	0.8	10	20	200
62	54-62	2 1/8-2 7/16	20	22	70	0.8	10	10	200
65	57-65	2 1/4-2 9/16	20	22	70	0.8	10	10	200
68	61-68	2 3/8-2 11/16	20	22	70	0.8	10	10	200
71	64-71	2 1/2-2 13/16	20	22	70	0.8	10	10	200
75	67-75	2 11/16 - 2 15/16	20	22	70	0.8	10	10	200
78	70-78	2 3/4-3 1/16	20	22	70	0.8	10	10	200
81	73-81	2 7/8-3 1/4	20	22	70	0.8	10	10	200
84	76-84	3-3 5/16	20	22	70	0.8	10	10	200
87	80-87	3 1/8-3 7/16	20	22	70	0.8	10	10	200
90	83-90	3 1/4-3 1/2	20	22	70	0.8	10	10	200
94	86-94	3 3/8-3 11/16	20	22	70	0.8	10	10	200
97	89-97	3 1/2 - 3 13/16	20	22	70	0.8	10	10	200
100	92-100	3 5/8 - 3 15/16	20	22	70	0.8	10	10	200
103	95-103	3 3/4 - 4 1/16	20	22	70	0.8	10	5	100
110	102-110	4 1/16 -4 5/16	20	22	70	0.8	10	5	100
116	108-116	4 1/4 - 4 9/16	20	22	70	0.8	10	5	100
122	114-122	4 1/2-4 13/16	20	22	70	0.8	10	5	100
129	121-129	4 13/16 -5 1/16	20	22	70	0.8	10	5	100

Material **W2**

PU : Packing Unit
IC : Industrial Carton

ORBIT QUICK RELEASE

ORBIT Quick Release Clamp are made from 430 fully serrated band to work with quick release buckles. It can clamp a hose quickly and unclamp easily. This is another ideal choice for fast installation suitable for various size of hose. Packaging is specially designed to measure clamp circumference for quick installation.



Band

Material	Bandwidth (a)		Thickness (s)		Packing	Weight	
	mm	Inch	mm	Inch		kg	lbs
SUS 430	9	3/8"	0.6	0.023	30 M/Roll	1.565	3.45

Quick release

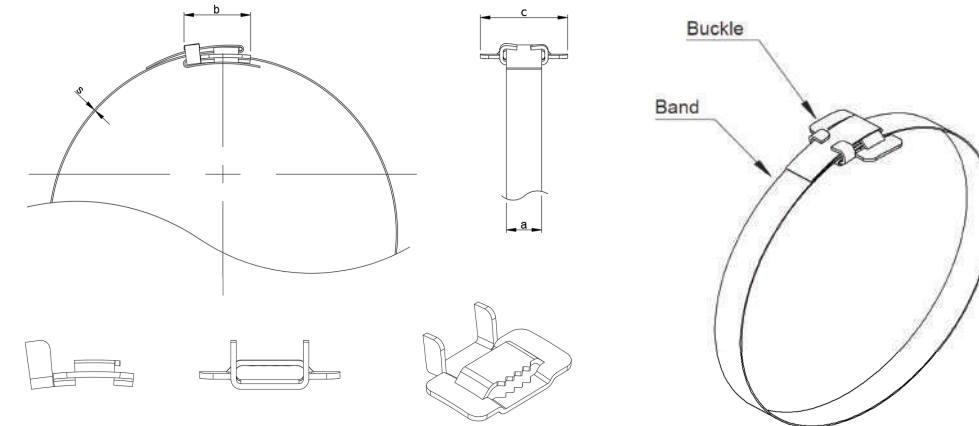
Material	Bandwidth		HEX	Packing	Weight	
	mm	Inch			kg	lbs
Carbon Steel	9	3/8"	7	25 pcs/Box	0.691	1.523

Material **W2**

PU : Packing Unit
IC : Industrial Carton

ORBIT BAND AND BUCKLE

ORBIT Band and Buckle is an adjustable clamping system which made from 304 stainless steel band. This material provides very good corrosion resistance in fresh water and industrial atmospheres. It can be used across a variety of industries and applications, such as Electrical, Hose Assembly, Signage, Automotive, Mining and food processing, chemical, power transmission and cable management.



Band

Material	Bandwidth		Thickness		Packing	Weight	
	mm	Inch	mm	Inch		kg	lbs
SUS 304	12.7	1/2	0.51	0.02	30 M/Roll	1.819	4.010
SUS 304	15.8	5/8	0.51	0.02	30 M/Roll	2.199	4.848

Buckle

Material	Bandwidth		Thickness		Packing	Weight	
	mm	Inch	mm	Inch		kg	lbs
SUS 304	12.7	1/2	1.2	0.05	25 pcs/Box	0.391	0.862
SUS 304	15.8	5/8	1.2	0.05	25 pcs/Box	0.466	1.027

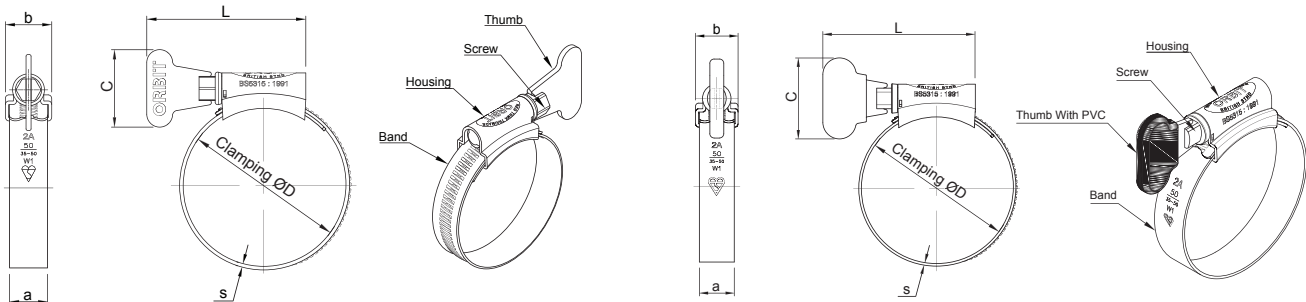
Material **W4**

ORBIT OBBS WITH THUMB

ORBIT OBBS WITH THUMB PVC

ORBIT OBBS WITH THUMB is easy to use without any installation tools. It is ideal for home usage or application that need to frequently install and reinstall hose. It is available in W1 zinc plated mild steel or W4 304 stainless steel clamp.

OBBS WITH THUMB PVC hose clamp is easy to use without any installation tools. Thumbscrew is covered with PVC rubber. It is ideal for home usage or application that need to frequently install and reinstall hose. It is available in W1 zinc plated mild steel or W4 304 stainless steel clamp.



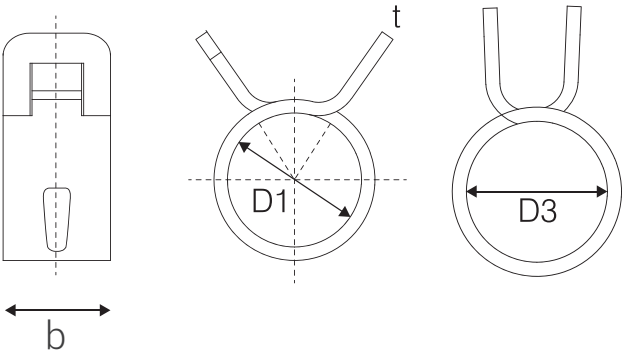
Size and Adjustment				Dimension (mm)						Packing	
Size	Old Size	mm	Inches	a	b	C	L	s(W1)	s(W4)	PU	IC
12	000	9.5-12	3/8 - 1/2	9.5	12.3	24.2	36.5	0.93	0.8	100	2000
16	MOO	11-16	7/16 - 5/8	9.5	12.3	24.2	36.5	0.93	0.8	100	2000
20	OO	13-20	1/2 - 3/4	9.5	12.3	24.2	36.5	0.93	0.8	100	2000
21	OOX	16-21	1/2 - 13/16	12.2	14.65	24.2	40.5	0.93	0.8	100	1200
22	O	16-22	5/8 - 7/8	12.2	14.65	24.2	40.5	0.93	0.8	100	1200
25	OX	18-25	3/4 - 1	12.2	14.65	24.2	40.5	0.93	0.8	100	1200
30	1A	22-30	7/8 - 1 1/8	12.2	14.65	24.2	40.5	0.93	0.8	50	600
35	1	25-35	1 - 1 3/8	12.2	14.65	24.2	40.5	0.93	0.8	50	600
40	1X	30-40	1 1/8 - 1 5/8	12.2	14.65	24.2	40.5	0.93	0.8	50	600
50	2A	35-50	1 3/8 - 2	12.2	14.65	24.2	49.4	0.93	0.8	25	300
55	2	40-55	1 5/8 - 2 1/8	12.2	14.65	24.2	49.4	0.93	0.8	25	300
60	2X	45-60	1 3/4 - 2 3/8	12.2	14.65	24.2	49.4	0.93	0.8	25	300

Material **W1** **W4**

PU : Packing Unit
IC : Industrial Carton

ORBIT SPRING CLAMP

ORBIT Spring Clamp is suitable for application which has temperature fluctuation when hose expand under high temperature and contract upon cooling. It's made from spring grade high carbon steel with automotive grade surface treatment.



Size and Adjustment			Dimension (mm)		Packing	
Size (D1)	Hose (D2)	Max (D3)	t	b	PU	IC
6.0	6.6	7.5	0.5	6.0	100	2,000
7.0	7.6	8.3	0.6	6.0	100	2,000
8.0	8.6	9.5	0.8	8.0	100	2,000
9.0	9.7	10.7	0.8	8.0	100	2,000
9.5	10.3	11.3	0.8	8.0	100	2,000
10.0	10.8	11.9	0.8	8.0	100	2,000
10.5	11.4	12.5	0.8	8.0	100	2,000
11.0	11.9	13.1	0.8	8.0	100	2,000
11.5	12.4	13.7	0.8	8.0	100	2,000
12.0	13.0	14.3	0.8	8.0	100	2,000
12.5	13.5	14.9	0.8	8.0	100	2,000
13.0	14.0	15.5	1.0	10.0	100	2,000
13.5	14.6	16.1	1.0	10.0	100	2,000
14.0	15.1	16.7	1.0	10.0	100	2,000
14.5	15.7	17.3	1.0	10.0	100	2,000
15.0	16.2	17.9	1.0	10.0	100	2,000
16.0	17.3	19.1	1.0	12.0	100	2,000
17.0	18.4	20.2	1.0	12.0	100	2,000
18.0	19.4	21.4	1.0	12.0	100	2,000
19.0	20.5	22.6	1.0	12.0	100	2,000
20.0	21.6	23.8	1.2	12.0	100	2,000
21.0	22.7	25.0	1.2	12.0	100	2,000
23.0	24.8	27.4	1.2	12.0	100	2,000
24.0	25.9	28.5	1.2	12.0	100	2,000
25.0	27.0	29.8	1.2	12.0	100	2,000

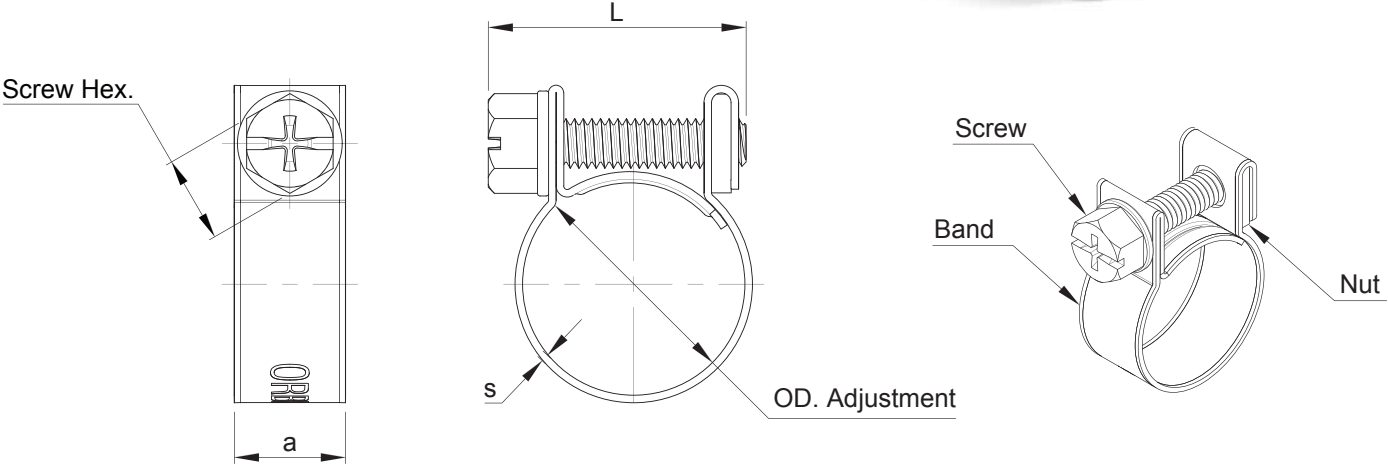
*Other sizes are available upon request

Material **W1**

PU : Packing Unit
IC : Industrial Carton
D1 : Delivery Diameter
D2 : Hose Diameter
D3 : Max Open
t(mm) : Thickness (mm)
b(mm) : Band width(mm)

ORBIT MINI CLAMP

ORBIT Mini W1 is made from quality zinc plated steel with cross-slot screw. It is suitable for low pressure applications. It is commonly used for fuel pipe and household applications. It is available in W1 grade.



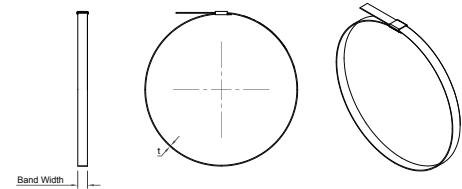
Size and Adjustment			Dimension (mm)				Packing	
Size	mm	Inches	a	L	s	Hex	PU	IC
8	6-8	1/4 - 5/16	9	16	0.6	7	200	2,400
10	8-10	5/16 - 3/8	9	16	0.6	7	200	2,400
13	10-13	3/8 - 1/2	9	16	0.6	7	200	2,400
14	11-14	7/16 - 9/16	9	16	0.6	7	100	1,200
16	13-16	1/2 - 5/8	9	16	0.6	7	100	1,200
18	15-18	5/8 - 11/16	9	16	0.6	7	100	1,200
19	16-19	5/8 - 3/4	9	16	0.6	7	100	1,200
20	17-20	21/32 - 3/4	9	16	0.6	7	100	1,200

Material W1 W4

PU : Packing Unit
IC : Industrial Carton

ORBIT THROBBING CLAMP

ORBIT Throbbing Clamp is made from grade stainless steel series 200 . With its flexibility, it is suitable to used in applications such as CV boot joint or light duty hose assembly or cable management.



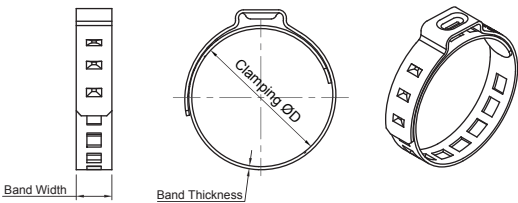
Material AISI 200 series stainless steel.

PU : Packing Unit
IC : Industrial Carton

Size	Dimension (mm)			Packing	
	Band Length	Band Width	Band thickness (t)	PU	IC
350	350	7	0.3	100	1,000
820	820	7	0.3	100	1,000

ORBIT ADJUSTABLE EAR CLAMP

Adjustable Ear Clamp can be adjusted to fit various diameter of hose. It is made from 304 stainless steel, and it has very good corrosion resistance in fresh water and industrial atmospheres. It is deal for maintenance and garage to clamp different size of hose.

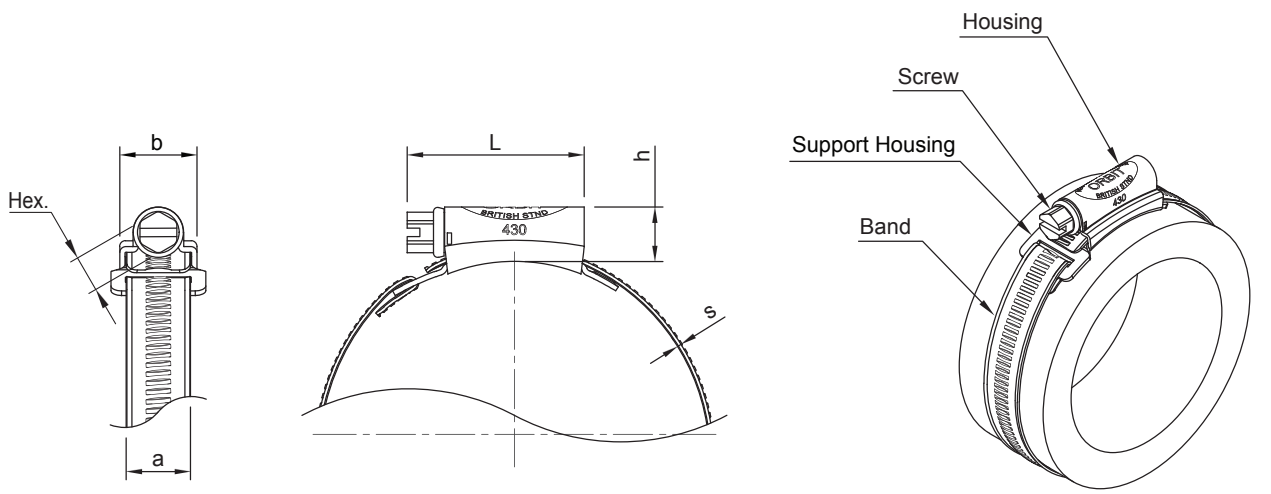


Material W4

Size and Adjustment		Band width	Band Thickness	Packing	
		mm	mm	PU	IC
45	25-45	7	0.6	100	1000
50	25-50	7	0.6	100	1000
110	40-110	7	0.6	100	500
120	60-120	7	0.6	100	500

ORBIT MULTIBAND HOSE CLAMP

One set of ORBIT MultiBand comes with one roll of raised edge band and one set of housings. It can be cut to length to fit with any sizes of hose above 2". It is suitable for low pressure and large diameter applications such as industrial ducting for ventilation / heating.



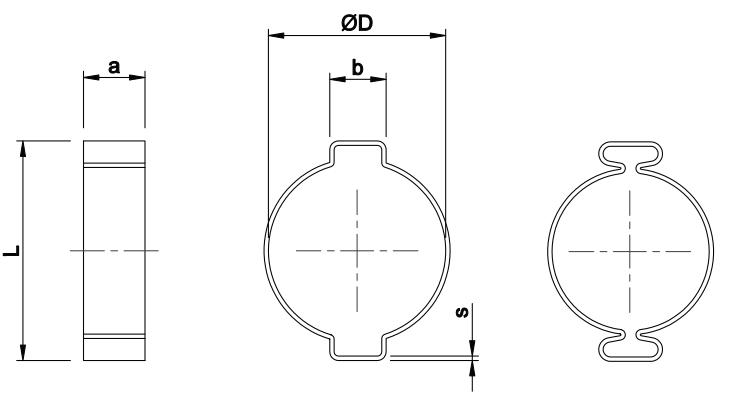
Size and Adjustment		Dimension (mm)					Packing	
Band Length (M)	Housing (pcs.)	a	b	h	s	L	PU	IC
10	10	12.2	14.65	11	0.8	33	1	20

Material W3

PU : Packing Unit
IC : Industrial Carton

ORBIT TWO EAR CLAMP

ORBIT Two Ear Clamps is made from zinc plated steel. It is suitable for general hose and industrial application. It can be clamped with plier and offer balance clamping force with both clamping ear.



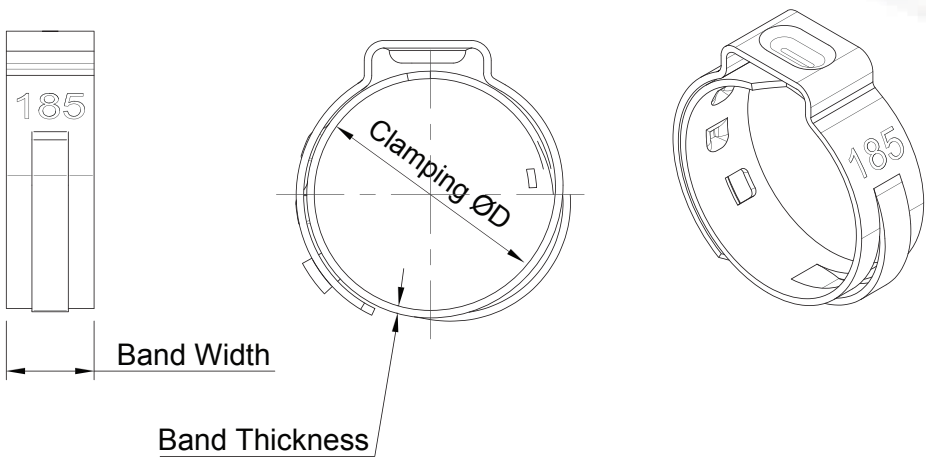
Material W1

PU : Packing Unit
IC : Industrial Carton
C1 : Dimension Finish Zinc - Plated
C2 : Dimension Steel

Size and Adjustment (mm)		Dimension (mm)					Packing	
Min	Max	ØD	b	a	L	s	PU	IC
5	7	7.3	4.3	6.0	11.0	0.6	50	3,000
7	9	9.3	4.8	6.0	13.5	0.8	50	3,000
9	11	11.3	5.3	6.5	17.0	0.8	50	2,000
10	12	12.3	5.5	6.5	18.0	0.9	50	2,000
11	13	13.3	5.8	6.5	19.0	1.0	50	2,000
13	15	15.3	6.3	7.0	21.5	1.1	50	1,500
14	17	17.5	6.6	7.0	24.0	1.1	50	1,500
15	18	18.5	7.0	7.5	25.0	1.1	50	1,500
17	20	20.5	7.6	7.5	27.0	1.1	50	1,500
18	21	21.5	7.9	8.0	28.0	1.1	50	1,000
20	23	23.5	8.5	8.0	31.0	1.1	50	1,000
22	25	25.5	9.1	8.5	33.0	1.3	50	800
23	27	27.5	9.4	8.5	35.0	1.3	50	800
25	28	28.5	10.0	9.0	36.0	1.3	50	800
28	31	31.5	10.6	9.0	39.0	1.3	50	500
31	34	34.5	11.0	9.5	42.0	1.3	50	500
34	37	37.5	11.5	9.5	46.0	1.5	50	400
37	40	40.5	12.0	10.0	49.0	1.5	50	400
40	43	43.5	12.5	10.0	53.0	1.5	50	300
43	46	36.5	13.0	10.5	56.0	1.5	50	300

ORBIT STEPLESS EAR CLAMP

ORBIT Stepless Ear Clamp offers smooth inner surface without any gap when tighten. It is made from 304 stainless steel, and it has very good corrosion resistance in fresh water and industrial atmospheres. It offers fast and tamper-proof installation and is suitable for various application. Easy installation with ORBIT ear clamp plier.



Size	Dimension (mm)	Packing	
		PU	IC
11.9	9.4 - 11.9	100	2,000
12.3	9.8 - 12.3	100	2,000
12.8	10.3 - 12.8	100	2,000
13.3	10.8 - 13.3	100	2,000
13.8	11.3 - 13.8	100	2,000
14.0	11.5 - 14.0	100	2,000
14.5	12.0 - 14.5	100	2,000
14.8	12.3 - 14.8	100	2,000
15.3	12.8 - 15.3	100	2,000
15.7	13.2 - 15.7	100	2,000
16.2	13.7 - 16.2	100	2,000
16.6	14.1 - 16.6	100	2,000
16.8	14.3 - 16.8	100	2,000
17.0	14.5 - 17.0	100	2,000
17.5	15.0 - 17.5	100	2,000
17.8	14.6 - 17.8	100	2,000
18.0	14.8 - 18.0	100	2,000
18.5	15.3 - 18.5	100	2,000
19.2	16.0 -19.2	100	2,000
19.8	16.6 - 19.8	100	2,000
21.0	17.8 - 21.0	100	2,000
22.6	19.4 - 22.6	100	2,000
23.5	20.3 - 23.5	100	1,000
24.1	20.9 - 24.1	100	1,000
25.6	22. 4 - 25.6	100	1,000
27.1	23.9 - 27.1	100	1,000
28.6	25.4 - 28.6	100	1,000
30.1	26.9 - 30.1	100	1,000
30.8	27.6 - 30.8	100	1,000
31.6	26.4 - 31.6	100	1,000
33.1	29.9 - 33.1	100	1,000
34.6	31.4 - 34.6	100	1,000
36.1	32.9 - 36.1	100	1,000
37.6	34.4 - 37.6	100	1,000
38.1	34.9 - 38.1	100	1,000
39.6	36.4 - 39.6	100	1,000
41.0	37.8 - 41.0	100	1,000
42.5	39.3 - 42.5	100	1,000
44.0	40.8 - 44.0	100	1,000
45.5	42.3 - 45.5	100	1,000
47.0	43.8 - 47.0	100	1,000
48.5	45.3 - 48.5	100	1,000
50.0	46.8 - 50.0	100	1,000
51.5	48.3 - 51.5	100	1,000
53.0	49.8 - 53.0	100	1,000
54.5	51.3 - 54.5	100	500
55.5	52.5 - 55.5	100	500
56.0	52.8 - 56.0	100	500
57.5	54.3 -57.5	100	500
59.0	56.8 - 59.0	100	500
60.5	57.3 - 60.5	100	500
62.0	58.8 - 62.0	100	500
63.5	60.3 - 63.5	100	500
65.0	61.8 - 65.0	100	500
66.5	63.3 - 66.5	100	500
68.0	64.8 - 68.0	100	500
69.5	66.3 - 69.5	100	500
71.0	67.8 - 71.0	100	500
72.5	69.3 - 72.5	100	500
74.0	70.8 - 74.0	100	500
75.5	72.3 - 75.5	100	500
77.0	73.8 - 77.0	100	500
78.5	75.3 - 78.5	100	500
80.0	76.8 - 80.0	100	500
81.5	78.3 - 81.5	100	500
83.0	79.8 - 83.0	100	500
84.5	81.3 - 84.5	100	500
86.0	82.8 - 86.0	100	500
87.5	84.3 - 87.5	100	500
89.0	85.8 -89.0	100	500
90.5	87.3 - 90.5	100	500
92.0	88.8 - 92.0	100	500
93.5	90.3 - 93.5	100	500
95.0	91.8 - 95.0	100	500
96.5	89.9 - 96.5	100	500
98.0	94.8 - 98.0	100	500
98.5	95.3 - 98.5	100	500
99.5	96.3 - 99.5	100	500

*Other sizes are available upon request

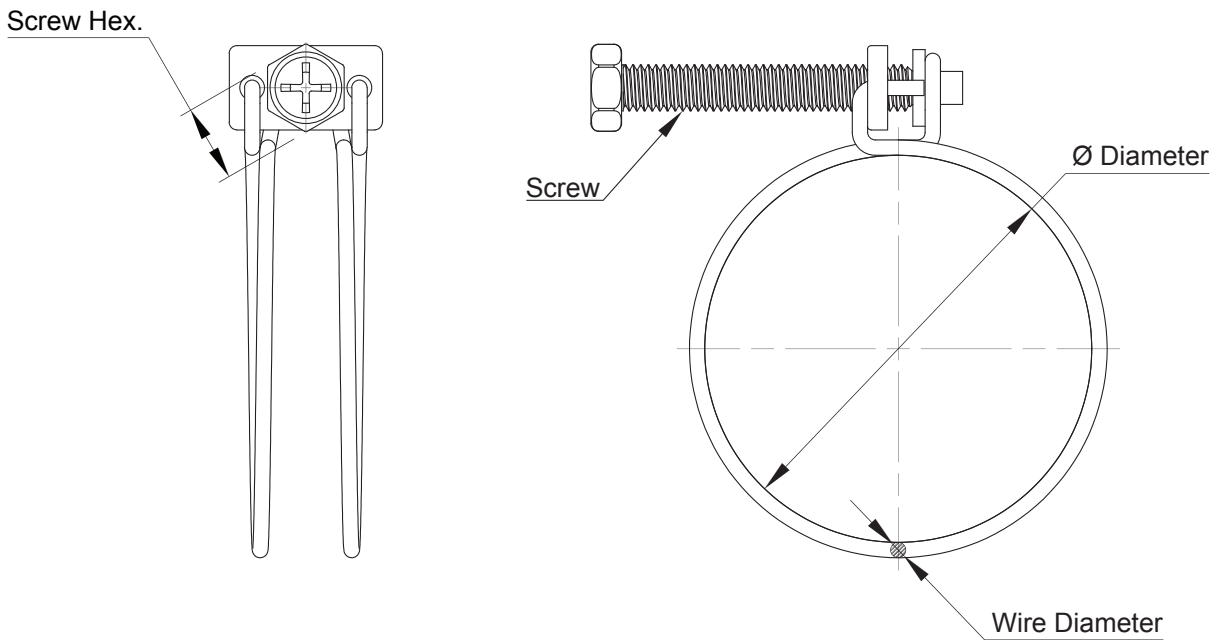
Material Grade : 304 Stainles Steel
706R series
Band width 7mm
Band Thickness 6 mm

Material	W4
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PU : Packing Unit
IC : Industrial Carton

ORBIT WIRE CLIPS (ZINC PLATED)

ORBIT Wire Clips is made from quality zinc plated carbon steel wire with a hex screw. They are perfect for soft to semi-rigid hoses ,with spiral reinforcement. It is suitable for any application where low to medium tightening torque is required.



Size and Adjustment			Wire Diameter	Screw		Packing	
Size	mm	Inches	ØD mm.	Spec.	Hex. (mm.)	PU	IC
10	8-10	5/16 - 3/8	1.4	M5x30	8	100	2,000
12	10-12	3/8 - 1/2	1.4	M5x30	8	100	2,000
14	12-14	1/2 - 9/16	1.6	M5x30	8	100	2,000
16	14-16	9/16 - 5/8	1.6	M5x30	8	100	2,000
18	16-18	5/8 - 3/4	1.6	M5x30	8	100	2,000
20	18-20	3/4 - 6/8	1.6	M5x30	8	100	1,200
22	20-22	6/8 - 7/8	1.8	M5x30	8	100	1,200
25	22-25	7/8 - 1	1.8	M5x30	8	100	1,200
30	25-30	1 - 1 3/16	1.8	M5x35	8	100	1,200
35	30-35	1 3/16 - 1 3/8	2.0	M6x40	10	50	1,000
40	35-40	1 3/8 - 1 5/8	2.0	M6x40	10	50	1,000
45	40-45	1 5/8 - 1 3/4	2.0	M6x45	10	50	600
50	45-50	1 3/4 - 2	2.0	M6x50	10	50	600
55	50-55	2 - 2 1/8	2.0	M6x50	10	50	600
60	55-60	2 1/8 - 2 3/8	2.3	M6x50	10	50	600
65	60-65	2 3/8 - 2 9/16	2.3	M6x50	10	50	600
70	65-70	2 9/16 - 2 3/4	2.3	M6x50	10	50	600
75	70-75	2 3/4 - 3	2.3	M6x50	10	50	600
80	75-80	3 - 3 1/8	2.3	M6x50	10	25	300
85	80-85	3 1/8 - 3 1/4	2.3	M6x50	10	25	300
90	85-90	3 1/4 - 3 1/2	2.3	M6x50	10	25	300
95	90-95	3 1/2 - 3 3/4	2.3	M6x50	10	25	300
100	95-100	3 3/4 - 4	2.3	M6x60	10	25	300
110	100-110	4 - 4 3/8	2.3	M6x60	10	25	300
120	110-120	4 3/8 - 4 3/4	2.3	M6x60	10	25	300
130	120-130	4 3/4 - 5 1/8	2.3	M6x60	10	25	300

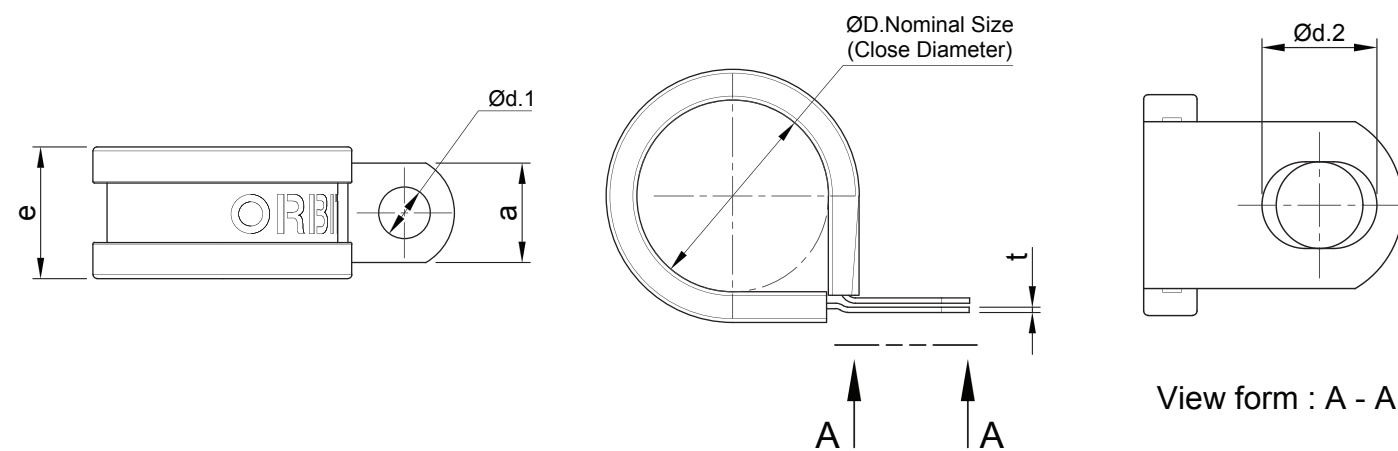
Finish	
3w	: Zinc-Plated (White)
6y	: Zinc-Plated (yellow)

Material	W1
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PU : Packing Unit
IC : Industrial Carton

ORBIT P-CLIPS

ORBIT P-Clip is one-piece clips made from Galvanised Steel, 304 or 316 Stainless Steel material with EPDM rubber liner. The EPDM rubber liner reduces vibration and wear from clamp edges and also provides a tighter fit. P-Clip is used to lock cables, hoses, tubes and pipe in place with one screw or bolt.



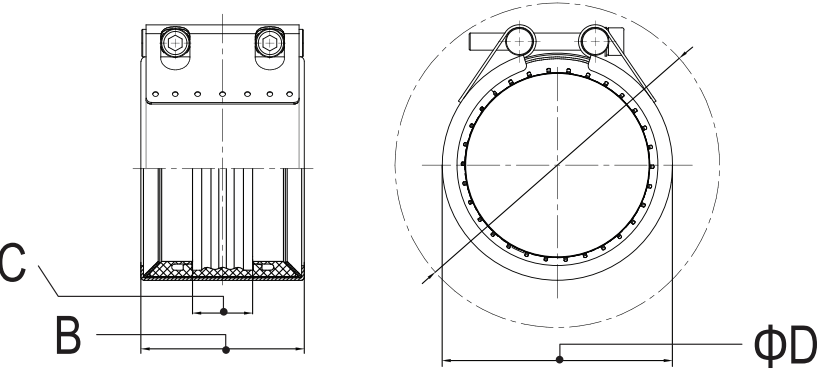
Material **W1** **W4** **W5**

*W5 made to order

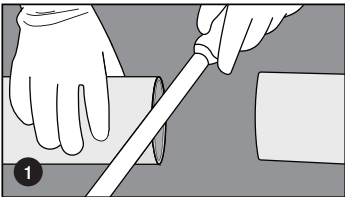
Product Size	Ranges Diameter		Nominal Diameter (nD) mm.	Dimension								Rubber
	Min. Diameter (mm)	Max. Diameter (mm)		(a) 12.7				(a)15				
				e	t	ød1	ød2	e	t	ød1	ød2	
5	4.5	6	5	17	1	M6	8.6	22	0.7	M8	11	EPDM
6	5.5	8	6	17	1	M6	8.6	22	0.7	M8	11	EPDM
8	7.5	10	8	17	1	M6	8.6	22	0.7	M8	11	EPDM
9	8.5	11	9	17	1	M6	8.6	22	0.7	M8	11	EPDM
10	9.5	12	10	17	1	M6	8.6	22	0.7	M8	11	EPDM
12	11.5	14	12	17	1	M6	8.6	22	0.7	M8	11	EPDM
13	12.5	15	13	17	1	M6	8.6	22	0.7	M8	11	EPDM
14	13.5	16	14	17	1	M6	8.6	22	0.7	M8	11	EPDM
15	14.5	17	15	17	1	M6	8.6	22	0.7	M8	11	EPDM
16	15.5	18	16	17	1	M6	8.6	22	0.7	M8	11	EPDM
17	16.5	19	17	17	1	M6	8.6	22	0.7	M8	11	EPDM
18	18	20	18	17	1	M6	8.6	22	0.7	M8	11	EPDM
19	18.5	21	19	17	1	M6	8.6	22	0.7	M8	11	EPDM
20	19.5	22	20	17	1	M6	8.6	22	0.7	M8	11	EPDM
21	20.5	23	21	17	1	M6	8.6	22	0.7	M8	11	EPDM
22	21.5	24	22	17	1	M6	8.6	22	0.7	M8	11	EPDM
24	23.5	26	24	17	1	M6	8.6	22	0.7	M8	11	EPDM
25	24.5	27	25	17	1	M6	8.6	22	0.7	M8	11	EPDM
26	25.5	28	26	17	1	M6	8.6	22	0.7	M8	11	EPDM
27	26.5	29	27	17	1	M6	8.6	22	0.7	M8	11	EPDM
28	27.5	30	28	17	1	M6	8.6	22	0.7	M8	11	EPDM
29	28.5	31	29	17	1	M6	8.6	22	0.7	M8	11	EPDM
30	29.5	32	30	17	1	M6	8.6	22	0.7	M8	11	EPDM
32	31.5	34	32	17	1	M6	8.6	22	0.7	M8	11	EPDM
34	33.5	36	34	17	1	M6	8.6	22	0.7	M8	11	EPDM
35	34.5	37	35	17	1	M6	8.6	22	0.7	M8	11	EPDM
36	35.5	38	36	17	1	M6	8.6	22	0.7	M8	11	EPDM
38	37.5	40	38	17	1	M6	8.6	22	0.7	M8	11	EPDM
40	39.5	42	40	17		M6	8.6	22	0.7	M8	11	EPDM
42	41.5	44	42	17	1	M6	8.6	22	0.7	M8	11	EPDM
44	43.5	46	44	17	1	M6	8.6	22	0.7	M8	11	EPDM
46	45.5	48	46	17	1	M6	8.6	22	0.7	M8	11	EPDM
48	47.5	50	48	17	1	M6	8.6	22	0.7	M8	11	EPDM
50	49.5	52	50	17	1	M6	8.6	22	0.7	M8	11	EPDM
52	51.5	54	52	17	1	M6	8.6	22	0.7	M8	11	EPDM
56	55.5	58	56	17	1	M6	8.6	22	0.7	M8	11	EPDM
60	59.5	62	60	17	1	M6	8.6	22	0.7	M8	11	EPDM

ORBIT SWP GRIP

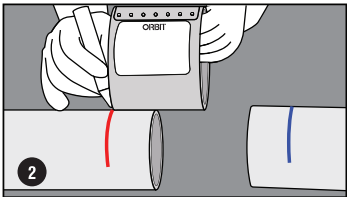
SWP Grip is a designed to replace the need for flanging and welding by providing a quick and easy solution to joining plain-end pipe. Two anchor rings which are placed adjacent to separate from, the sealing mechanism. Suitable for pipes O.D. 26.9-273 mm



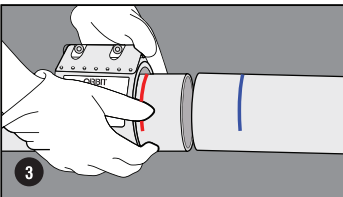
HOW TO SWP GRIP INSTALLATION



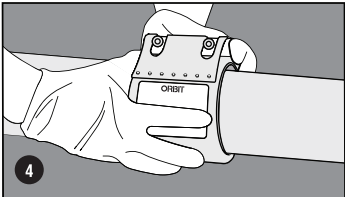
Deburr and remove sharp edges from pipe ends.
Clean the pipe surface from impurities (bad coating) No loose matter under sealing lips.



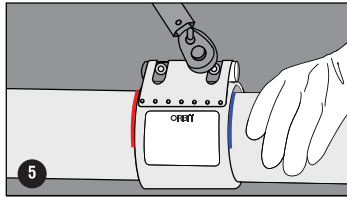
Mark half-width of pipe coupling on both pipe ends as fitting guide



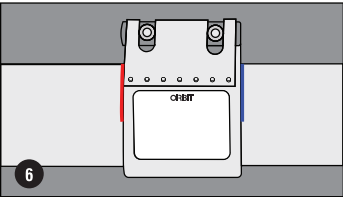
Fitting the pipe coupling over the pipe end



Fitting the pipe coupling within tolerance



Tightening the two bolts alternately with specified torque wrench



Finished

Material **W4** **W5**

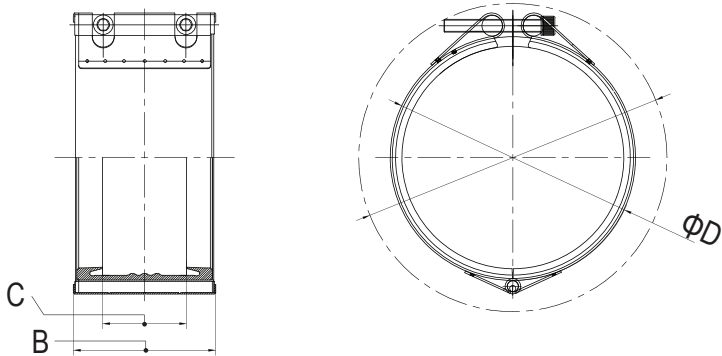
NOTES:
The above tables are guides to the most common sizes. Couplings to suit specific outside diameters not listed may be manufactured to order. Please contact us for further details.
* Width B: 250mm and 500mm width version is available.
For Further product information, please refer to ORBIT SWP CATALOG.

Pipe ND		Pipe outside diameter	Clamping range	Working pressure		Product O.D.	Width	Distance between sealing slips	Setting gap between pipe ends		Torque rate
		O.D.	Min-Max	Shipbuiding	General use	Φ D	B*	C	without strip insert	with strip insert (Max)	
		mm	mm	bar	bar	mm	mm	mm	mm	mm	Nm
20A	3/4"	21.3	20-22	18	46	39	61	26	5-8	10	8
20A	3/4"	26.9	26-28	18	46	43	61	26	5-8	10	8
25A	1"	30	29-31	18	46	46	61	26	5-8	10	8
25A	1"	33.7	32-35	18	40	50	61	26	5-8	10	8
32A	1 1/4"	38	37-39	18	35	57	61	26	5-8	10	10
32A	1 1/4"	42.4	41-43	18	32	61.3	61	26	5-8	10	10
40A	1 1/2"	44.5	44-45	18	32	63.4	61	26	5-8	10	10
40A	1 1/2"	48.3	47-49	18	32	67.2	61	26	5-8	10	10
50A	2"	54	53-55	18	32	73	76	37	5-10	15	10
50A	2"	57	56-58	18	32	76	76	37	5-10	15	10
50A	2"	60.3	59-61	18	32	79.2	76	37	5-10	15	10
65A	2 1/2"	66.6	64-68	18	32	88.7	95	37	5-10	25	20
65A	2 1/2"	70	68-71	18	32	92	95	41	5-10	25	20
65A	2 1/2"	73	72-74	18	32	95	95	41	5-10	25	20
65A	2 1/2"	76.1	75-77	18	32	98.2	95	41	5-10	25	20
65A	2 1/2"	79.5	78-81	18	32	101.6	95	41	5-10	25	20
80A	3"	84	83-85	18	32	106	95	41	5-10	25	20
80A	3"	88.9	88-90	18	32	111	95	41	5-10	25	20
80A	3"	100.6	99-102	16	32	123	95	41	5-10	25	25
90A	3 1/2"	101.6	100-103	16	32	123.7	95	41	5-10	25	25
100A	4"	104	103-105	16	32	126	95	41	5-10	25	25
100A	4"	108	106-109	16	32	130	95	41	5-10	25	25
100A	4"	114.3	113-116	16	30	136.4	95	41	5-10	25	25
100A	4"	127	126-128	16	25	151	110	54	5-10	35	40
125A	5"	129	128-130	16	25	153	110	54	5-15	35	40
125A	5"	130.2	129-132	16	25	154.3	110	54	5-15	35	40
125A	5"	133	131-135	16	25	157	110	54	5-15	35	40
125A	5"	139.7	138-142	16	25	163.8	110	54	5-15	35	40
125A	5"	141.3	140-143	16	25	165.4	110	54	5-15	35	40
150A	6"	154	153-156	16	25	176.4	110	54	5-15	35	40
150A	6"	159	158-161	16	25	183	110	54	5-15	35	40
150A	6"	168.3	167-170	16	22	189	110	54	5-15	35	40
150A	6"	193.7	192-196	10	22	215	142	80	15-20	40	60
150A	6"	200	198-202	10	22	222	142	80	15-20	40	60
150A	6"	204	202-206	10	22	224	142	80	15-20	40	60
200A	8"	206	204-208	10	22	234	142	80	15-20	40	60
200A	8"	219.1	216-222	10	22	250	142	80	15-20	40	60
225A	9"	244.5	242-247	10	20	275	142	80	15-20	40	60
225A	9"	250	247-253	10	20	279	142	80	15-20	40	60
225A	9"	254	251-257	10	20	282	142	80	15-20	40	60
250A	10"	256	253-259	10	20	284	142	80	15-20	40	60
250A	10"	267	264-270	10	20	297	142	80	15-20	40	60
250A	10"	273	270-276	10	20	303	142	80	15-20	40	60
300A	12"	323.9	320-327	10	20	355.9	142	75	10-25	40	80
300A	12"	377	375-379	8.5	16	409	142	75	10-25	40	80
400A	16"	426	424-428	7.5	16	458	142	75	10-25	40	80

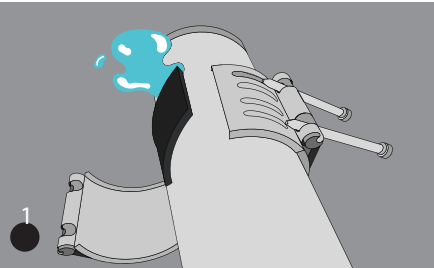
ORBIT SWP OPEN FLEX 1R

OPEN Flex 1R is ideal for all situations where you need to make a permanent repair under pressure.

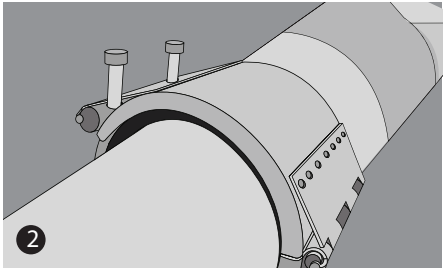
- Permanent repair under pressure.
- Repaired in minutes faster than pipe joints
- Avoided the need for costly downtime
- One Lock pipe clamp
- OPEN FLEX 1R Suitable for pipes O.D. 26.9-168.3 mm



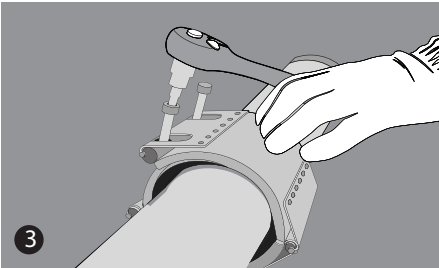
HOW TO SWP OPEN FLEX 1R INSTALLATION



Take the sealing rubber off from casing and cover where the leak occurs with the sealing rubber.



Cover the sealing rubber with the casing.



Install SWP following the recommended torque by using the appropriate tool listed by the provider.

Material **W4** **W5**

For Further product information, please refer to ORBIT SWP CATALOG.

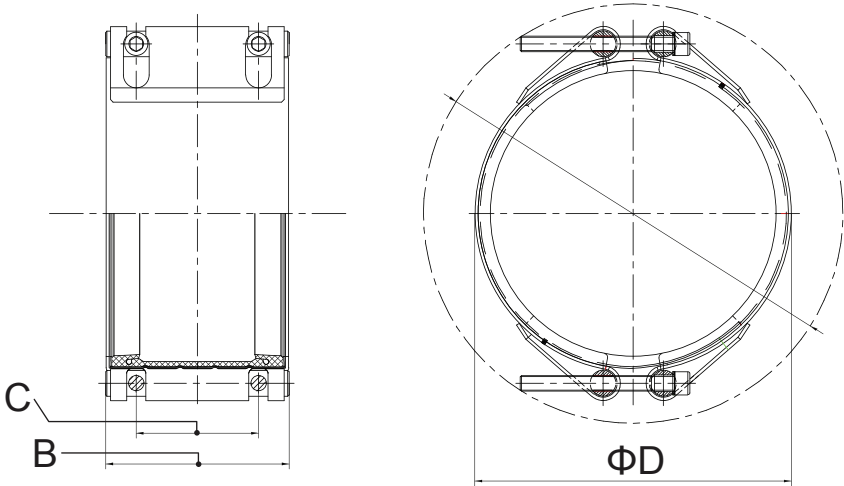
Pipe ND		Pipe outside diameter	Clamping range	Working pressure		Product O.D.	Width	Distance between sealing slips	Setting gap between pipe ends		Torque rate
		O.D.	Min-Max	Shipbuiding	General use	Φ D	B*	C	without strip insert	with strip insert (Max)	
		mm	mm	bar	bar	mm	mm	mm	mm	mm	Nm
20A	3/4"	26.9	26-28	25	40	38	57	30	5-8	10	8
25A	1"	30	29-31	25	40	42	57	30	5-8	10	8
25A	1"	33.7	32-35	25	40	45	57	30	5-8	10	8
32A	1 1/4"	38	37-39	25	40	50.3	61	26	5-8	10	10
32A	1 1/4"	42.4	41-43	25	40	54.7	61	26	5-8	10	10
40A	1 1/2"	44.5	44-45	25	40	56.8	61	26	5-8	10	10
40A	1 1/2"	48.3	47-50	25	40	64.2	61	26	5-8	10	10
50A	2"	54	52-56	20	35	70	76	37	5-10	15	10
50A	2"	57	55-59	20	35	73	76	37	5-10	15	10
50A	2"	60.3	59-62	20	35	76.2	76	37	5-10	15	10
65A	2 1/2"	66.6	64-68	20	40	85.5	95	37	5-10	25	20
65A	2 1/2"	70	68-71	20	40	89	95	41	5-10	25	20
65A	2 1/2"	73	71-75	20	40	92	95	41	5-10	25	20
65A	2 1/2"	76.1	74-78	20	40	95.2	95	41	5-10	25	20
65A	2 1/2"	79.5	78-80	20	40	98.5	95	41	5-10	25	20
80A	3"	84	82-86	20	40	103	95	41	5-10	25	20
80A	3"	88.9	87-91	20	40	108	95	41	5-10	25	20
80A	3"	100.6	99-103	18	35	120	95	41	5-10	25	20
90A	3 1/2"	101.6	100-104	18	35	120.7	95	41	5-10	25	20
90A	3 1/2"	104	102-106	18	35	123	95	41	5-10	25	20
100A	4"	104.8	103-107	18	35	124	95	41	5-10	25	20
100A	4"	108	106-110	18	35	127	95	41	5-10	25	20
100A	4"	114.3	112-116	18	35	133.4	95	54	5-10	35	20
100A	4"	127	125-129	18	40	148	110	54	5-10	35	25
125A	5"	129	127-131	18	40	150	110	54	5-10	35	25
125A	5"	130.2	128-132	18	40	151.3	110	54	5-10	35	25
125A	5"	133	131-135	18	40	154	110	54	5-10	35	25
125A	5"	139.7	138-142	18	40	160.8	110	54	5-10	35	25
125A	5"	141.3	139-143	18	35	162.4	110	54	5-10	35	25
150A	6"	154	152-156	18	35	173.4	110	54	5-10	35	25
150A	6"	159	157-161	18	35	180	110	54	5-10	35	25
150A	6"	168.3	168.3	18	35	186	110	54	5-10	35	25

NOTES:
The above tables are guides to the most common sizes. Couplings to suit specific outside diameters not listed may be manufactured to order. Please contact us for further details.
* Width B: 250mm and 500mm width version is available.

ORBIT SWP OPEN FLEX 2R

OPEN Flex 2R is ideal for all situations where you need to make a permanent repair under pressure.

- Permanent repair under pressure.
- Repaired in minutes faster than pipe joints
- Avoided the need for costly downtime
- Double Lock pipe clamp
- OPEN FLEX 2R Suitable for pipes O.D. 180-2032 mm.



Material W4 W5

The above tables are guides to the most common sizes. Couplings to suit specific outside diameters not listed may be manufactured to order. Please contact us for further details.

For Further product information, please refer to ORBIT SWP CATALOG.

Pipe ND		Pipe outside diameter	Clamping range	Working pressure		Product O.D.	Width		Distance between sealing slips	Setting gap between pipe ends		Torque rate
		O.D.	Min-Max	Shipbuiding	General use	Φ D	B*		C	without strip insert	with strip insert (Max)	
		mm	mm	bar	bar	mm	mm	mm	mm	mm	mm	
170A	7"	180	178-182	16	30	204	142	250	75	10-25	40	60
190A	7.5"	200	198-202	16	30	224	142	250	75	10-25	40	60
200A	7.9"	206	204-208	16	30	238	142	250	75	10-25	40	60
200A	7.9"	219.1	216-222	16	30	251.1	142	250	75	10-25	40	60
225A	8.9"	244.5	242-246	16	25	276	142	250	75	10-25	40	60
225A	8.9"	250	247-253	16	25	282	142	250	75	10-25	40	80
250A	9.8"	256	253-258	16	25	288	142	250	75	10-25	40	80
250A	9.8"	267	264-270	16	25	299	142	250	75	10-25	40	80
250A	9.8"	273	270-276	16	25	305	142	250	75	10-25	40	80
300A	11.8"	304	301-307	10	20	336	142	250	75	10-25	40	80
300A	11.8"	323.9	320-327	10	20	355.9	142	250	75	10-25	40	80
350A	13.8"	355.6	352-359	8.5	16	387.6	142	250	75	10-25	40	80
350A	13.8"	377	375-379	8.5	16	409	142	250	75	10-25	40	80
400A	15.7"	406.4	402-411	7.5	16	438	142	250	75	10-25	40	80
400A	15.7"	426	423-413	7	14	458	142	250	75	10-25	40	80
450A	17.7"	457.2	452-462	6.5	12	489	142	250	75	10-25	40	80
500A	19.6"	508	503-513	6	10	540	142	250	75	10-25	40	120
550A	21.7"	558.8	554-564	5.5	10	590.8	142	250	75	10-25	40	160
600A	23.6"	609.6	605-615	5	10	641.6	142	250	75	10-25	40	160
700A	27.6"	711.2	708-715	4	5	743.2	142	250	75	10-25	40	160
750A	29.5"	762	758-766	4	5	794	142	250	75	10-25	40	160
800A	31.5"	812.8	809-817	4	5	844.8	142	250	75	10-25	40	160
900A	35.4"	914.4	910-918	4	5	946.4	142	250	75	10-25	40	160
1000A	39.4"	1016	1012-1020	4	5	1048	142	250	75	10-25	40	200
1100A	43.3"	1117.6	1113-1122	3.5	5	1149.6	142	250	75	10-25	40	200
1200A	47.2"	1219.2	1215-1224	3.5	5	1251.2	142	250	75	10-25	40	200
1300A	51.2"	1320.8	1316-1325	3	5	1352.8	142	250	75	10-25	40	240
1400A	55.1"	1422.4	1418-1427	3	5	1454.4	142	250	75	10-25	40	240
1500A	59.1"	1524	1519-1529	2.5	5	1556	142	250	75	10-25	40	240
1600A	63"	1625.6	1621-1631	2.5	5	1657.6	142	250	75	10-25	40	240
1700A	66.9"	1727.2	1722-1732	2.5	5	1759.2	142	250	75	10-25	40	240
1800A	70.9"	1828.8	1824-1834	2	5	1860.8	142	250	75	10-25	40	240
1900A	74.8"	1930.4	1925-1935	2	5	1962.4	142	250	75	10-25	40	240
2000A	78.7"	2032	2027-2037	2	5	2064	142	250	75	10-25	40	240

ORBIT DWV

ORBIT DWV is single bolt design coupling for Drain, Waste and Vent used in Residential and Commercial Sanitary system. The new design allows coupling to be visually inspected for correct installation. it is suitable for application with no pressure DWV series couplings are built with high corrosion resistance stainless steel material.



Model	SIZE			Material	Rubber Type
	DN	mm	inch	304	NBR
ORBIT DWV DN40 1 1/2"	DN40	40	1 1/2	P	P
ORBIT DWV DN40 2"	DN50	50	2	P	P
ORBIT DWV DN40 3"	DN75	75	3	P	P
ORBIT DWV DN40 4 1/2"	DN100	100	4	P	P
ORBIT DWV DN40 5"	DN125	125	5	P	P
ORBIT DWV DN40 6"	DN150	150	6	P	P
ORBIT DWV DN40 8"	DN200	200	8	P	P

Material	304
Rubber Type	NBR

Material **W4**

PU : Packing Unit
IC : Industrial Carton

ORBIT SWIVEL RING HANGER

Material:Carbon Steel
Size Range: 1/2" through 8"
Finish:Zinc Colored Epoxy Plated
Comply with Federal Specitication ww-H-171E and American
Manufactures Standardization Society MSS SP-69 & SP58



Model	Rod Size (RS)		psc./bag	Unit/Box
	DN	mm		
1/2"	3/8	M10	20	100
3/4"	3/8	M10	20	100
1"	3/8	M10	20	100
1 1/4"	3/8	M10	20	100
1 1/2"	3/8	M10	20	100
2"	3/8	M10	10	100
2 1/2"	3/8	M10	10	100
3"	3/8	M10	5	50
4"	3/8	M10	5	50
5"	1/2	M8	5	20
6"	1/2	M8	5	20
8"	1/2	M8	5	10

ORBIT PIPE HANGER

Material

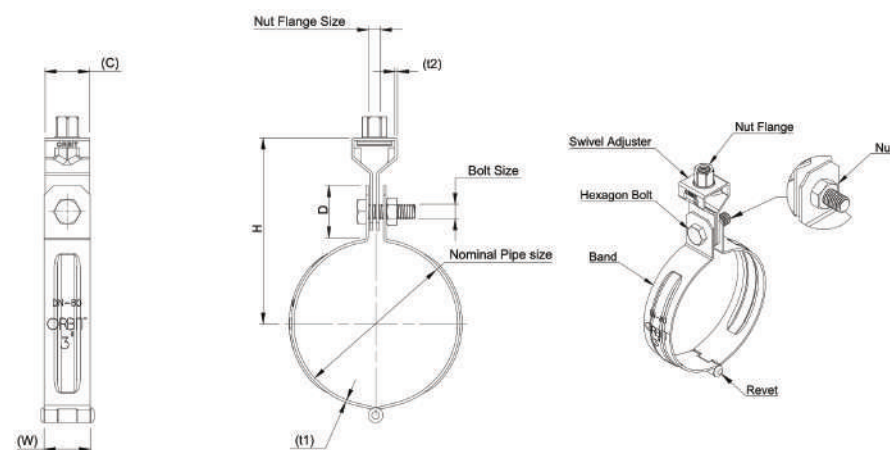
BAND : SPCC

HEXAGON BOLT : Carbon Steel

NUT : Carbon Steel

NUT FLANGE : SWRCH10A

SWIVEL ADJUSTER : SPCC

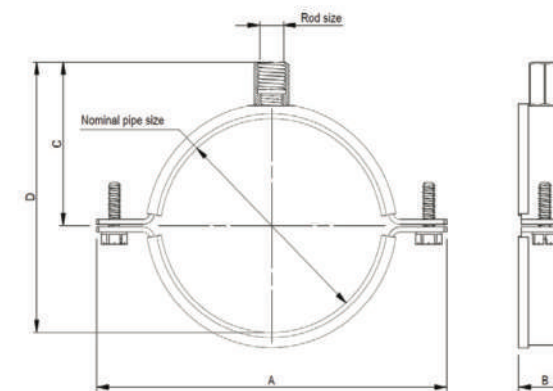


Material	
BAND	SPCC
HEXAGON BOLT	Carbon Steel
NUT	
NUT FLANGE	SWRCH10A
SWIVEL ADJUSTER	SPCC

Nominal Pipe Size		Outside Diameter	Nut Flange	Bolt Size	Dimension (mm)						Packing	
DN	NPS	mm	Inch.	Inch.	D	H	C	t1	t2	W	PU	IC
15	1/2	21.3	3/8	1/4 x 1	28	68	25	1.4	1.4	25	25	200
20	3/4	26.7	3/8	1/4 x 1	28	71	25	1.4	1.4	25	25	200
25	1	33.4	3/8	1/4 x 1	28	74	25	1.4	1.4	25	25	200
32	1 1/4	42.2	3/8	1/4 x 1	28	78	25	1.4	1.4	25	25	200
40	1 1/2	48.3	3/8	1/4 x 1	28	81	25	1.4	1.4	25	25	200
50	2	60.3	3/8	5/16 x 1	28	87	25	1.4	1.4	25	10	200
65	2 1/2	73.0	3/8	5/16 x 1	28	95	25	1.4	1.4	25	10	200
80	3	88.9	3/8	5/16 x 1	28	102	25	1.4	1.4	25	10	200
100	4	114.3	3/8	5/16 x 1	28	114	25	1.4	1.4	25	-	150
125	5	141.3	1/2	1/2 x 1 3/4	36	140	32	2.0	2.0	32	-	50
150	6	168.3	1/2	1/2 x 1 3/4	36	153	32	2.0	2.0	32	-	50
200	8	219.1	5/8	1/2 x 1 3/4	36	180	38	2.0	2.0	38	-	25

PU : Packing Unit
IC : Industrial Carton

ORBIT SPLIT PIPE CLAMP WITH RUBBER

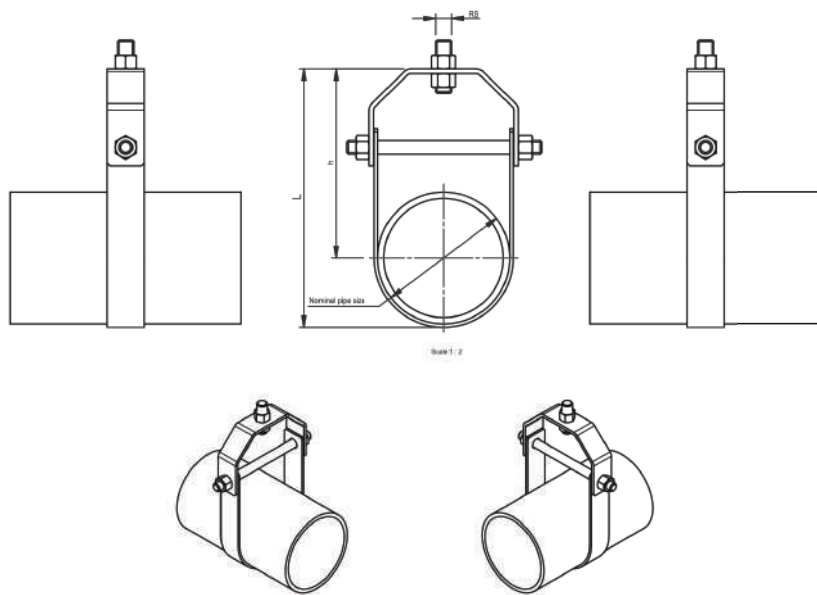


Model			Rod Size (RS) mm	psc./bag	Unit/Box
IN	mm	mm			
3/8"	18	15-19	M8/M10	10	100
1/2"	22	20-25	M8/M10	10	100
3/4"	28	26-30	M8/M10	10	100
1"	35	32-36	M8/M10	10	100
1 1/4"	42	38-43	M8/M10	10	100
1 1/2"	48	47-51	M8/M10	10	100
2"	60	60-64	M8/M10	5	100
2 1/2"	75	75-80	M8/M10	5	100
3"	90	87-92	M8/M10	5	50
4"	115	113-118	M8/M10	5	50
5"	140	138-142	M8/M10	5	50
6"	168	168-172	M8/M10	5	20
8"	220	215-220	M8/M10	5	20

ORBIT CLEVIS HANGER

Material : carbon steel

Finish : paint, electro - galvanized, hot dip - gavanized



Model	Rod Size (RS)		psc./bag	Unit/Box
	DN	mm		
2"	3/8	M10	10	100
2 1/2"	1/2	M12	5	50
3"	1/2	M13	5	50
3 1/2"	-	-	5	50
4"	5/8	M16	5	25
5"	5/8	M16	5	20
6"	3/8	M20	-	10
8"	3/8	M20	-	5
10"	7/8	M30	-	4
12"	7/8	M30	-	4

TOOLS

ORBIT SPRING CLAMP PLIER

- Automotive spring clamp pliers.
- Suitable for diy or professional garage use.
- Design for maximum grip on any type of spring clamp available.
- Made from high grade steel with automatic latch lock to keep perfect gripping power.
- Pliers come with rubber grip preventing slipping from oil residue.



ORBIT FLEXIBLE SPRING CLAMP PLIER

- Designed for removal and installations of various hose clamp styles with size rang 0-75 mm.
- Flexible cable allows extra reach for difficult and hard to reach applications.
- Includes 3 different hose clamp heads
Quick and easy interchangeable heads
- Ratcheting and locking mechanism secures clamp while maneuvering.
- Ergonomic handle features non-slip grip finish.



ORBIT EAR CLAMP PLIER

- Automotive Ear clamp pliers
- Suitable for Installs quick clamps garage use.
- Made from high grade steel
- Pliers come with rubber grip preventing slipping from oil residue.
- The slim head permits good accessibility in confined areas



ORBIT FLEXIBLE SHAFT SCREWDRIVER 50 CM WITH SOCKET

- Flexible shaft screwdriver. (Shaft Length:50 cm)
- With 1/4", 5/16" and 7 mm sockets.
- Comfortable, high grip, textured handle in neutral.



ORBIT FLEXIBLE SHAFT SCREWDRIVER WITH SOCKET

- Flexible shaft screwdriver for narrow spaces
- With 1/4", 5/16" & 7 mm sockets Suitable for wide of applications
- Comfortable, high grip, textured handle in neutral.



ORBIT RATCHET AND SOCKET SET

SWP Series Installation Tools

3/8" 3" extension bar

3/8" 6" extension bar

3/8" universal joint

Socket: 6 mm, 8 mm, 10 mm, 12 mm

Out diemension: 260 x 135 x 60 mm



ORBIT DIGITAL TORQUE WRENCH

Digital torque wrench 12-60 Nm, size 3/8 "Professional, easy to use and practical, good quality, good functionality. Digital display, LED light with sound, can convert units N.m, ft.lb, in.lb, kg.cm, head can be changed. Can be used with die-cut heads or dissection rings. It is a professional tool.



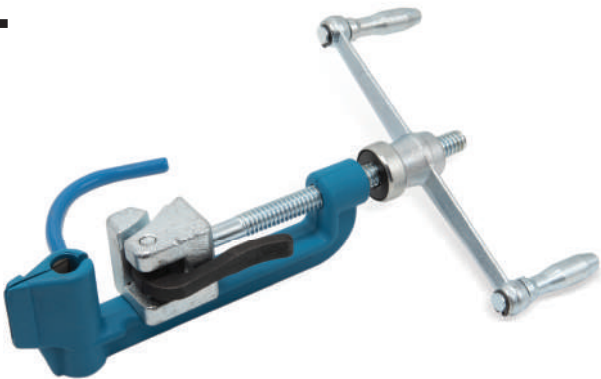
3/8" Dr. Digital Torque Wrench	
Accuracy	2%
Display Range	0.6-60Nm
Alarm Range	3-60Nm
Accuracy Range	12-60Nm
Preset	10
Resolution	0.1Nm
Memory	100 (10memory for each preset)
Unit	Nm. lb-ft. lb-in. Kg-m. Kg-cm
Mode	Peak/Track
Length (mm)	230
Backlight	Yes (Positive)
Battery	AAA*2pcs
Battery Life	50hrs
Auto Shout Off	70seconds
Storage Temp	-20°C -70°C (-4 °F-157.9°F)
Operating	-10°C-60 °C (14°F-139.9 °F)
Operating Humidity	15-90% noncondensing

ORBIT BANDING TOOL

The main body is by alloy steel, with high strength and hardness, the tools are wear resistant and long life span. The tool is easy to operate, and time-saving. Anti-slip handle with PVC , the handle is safe and comfortable to operate.

How to use?

1. Thread band through buckle from hole to ears.
2. Fold band end under buckle. Make sure the strap is longer than the buckle, then flatten to secure.
3. Clamp the assembled band around the designated area by threading through the buckle hole.
4. Place the band end in the banding tool. Turn the tension handle clockwise to tighten.
5. Once done, flip the tool over the buckle.
6. Pull the lever to cut the excess band end.
7. Hammer buckle ears down to secure the remaining band end.



Material : Alloy
Unit Weight : 1.76Kg
Size : 42CM x 28CM x 22CM
Bands Size for Cutting
Width : 4.6 mm – 19 mm
Thickness : 0.25mm - 1.0mm

ORBIT OBBS ZINC PLATED (CR3)

- A box of hose clamps available from 12-35 mm
- All parts are manufactured from zinc plated steel, chromium 3
- There are 69 pieces in total, Flexible screw driver 7 mm

Hose clamp in the box		
9.5-12 mm 10 pcs	11-16 mm 10 pcs	13-20 mm 20 pcs
16-22 mm 8 pcs	18-25 mm 8 pcs	22-30 mm 8 pcs
25-35 mm 5 pcs		



ORBIT OBBS ZINC PLATED (CR6)

- A box of hose clamps available from 12-35 mm
- All parts are manufactured from zinc plated steel, chromium 6
- There are 69 pieces in total, Flexible screw driver 7 mm

Hose clamp in the box		
9.5-12 mm 10 pcs	11-16 mm 10 pcs	13-20 mm 20 pcs
16-22 mm 8 pcs	18-25 mm 8 pcs	22-30 mm 8 pcs
25-35 mm 5 pcs		



ORBIT GRIP 9.5 mm

- A box of hose clamps available from 12-40 mm / Bandwidth 9.5 mm
- All parts are manufactured from 430 stainless steel, Except screws made from steel
- There are 75 pieces in total, Flexible screw driver 7 mm

Hose clamp in the box		
8 - 12 mm 10 pcs	10-16 mm 10 pcs	12-20 mm 20 pcs
12-22 mm 10 pcs	16-25 mm 10 pcs	20-32 mm 10 pcs
25-40 mm 5 pcs		

