

Air Energy

INDUSTRIAL PIPE SYSTEMS • COMPRESSED AIR SYSTEMS



CLAMPS, SUPPORTS & FASTENERS

PRODUCT CATALOGUE

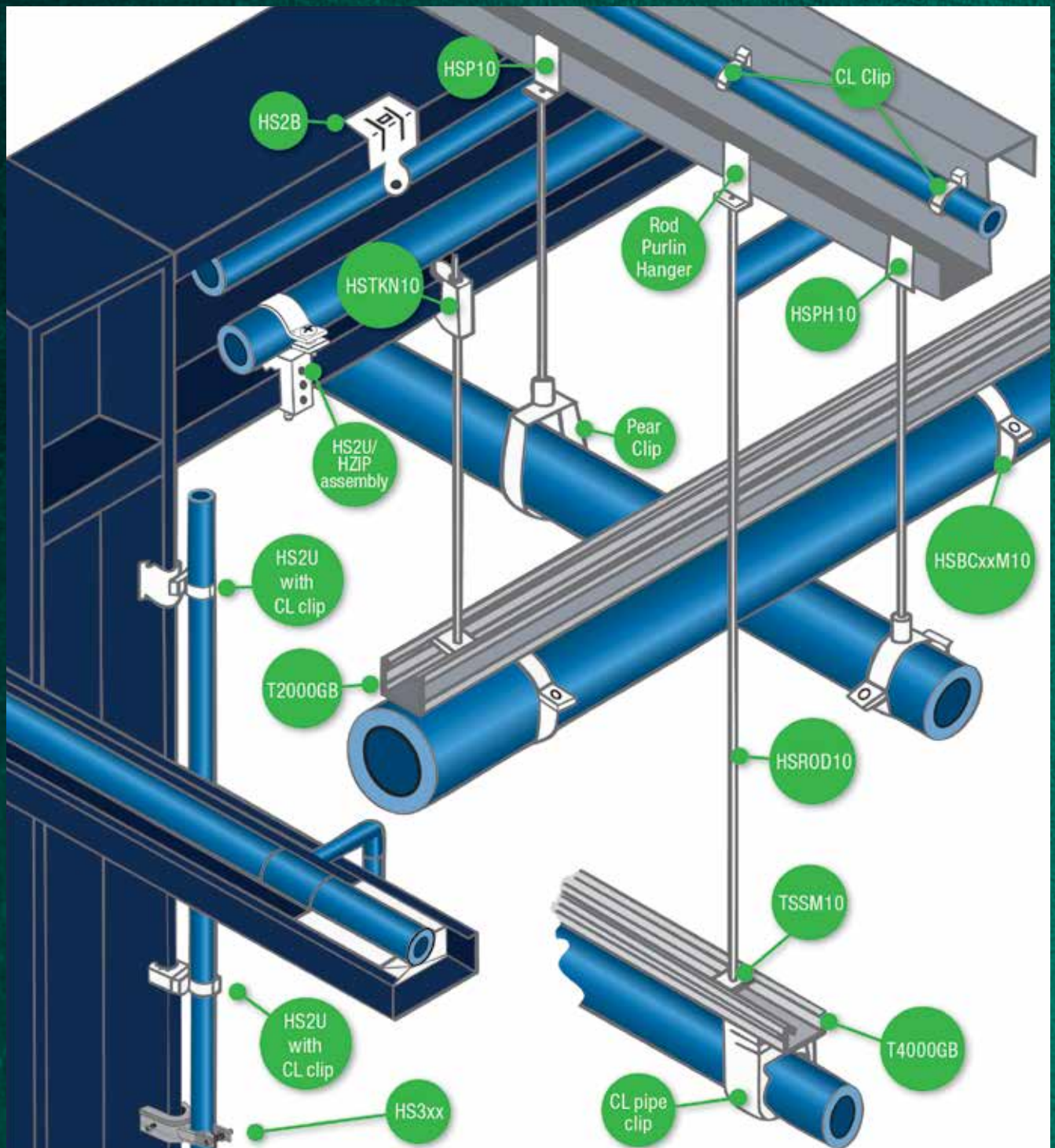
1300 99 55 26 airenergy.com.au





Pipe Support Systems

Based on years of hands-on experience, both by our team members and a wide range of specialist contractors, Air Energy have evolved a comprehensive, easy to use selection of practical pipe support systems. Our consultants are more than willing to discuss any needs. Some ideas are included in this schematic, but read on for more or contact the team at Air Energy.



AIR ENERGY: COLLABORATIVE EFFICIENT SOLUTIONS

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MISSION:

To consistently provide our customers with an excellent product at a competitive price supported by a friendly experienced advice with efficient service, responding quickly to customer needs.

To build a relationship in integrity to be the preferred supplier to all our clients. By a system of self evaluation and awareness of world market best practice build a process of continual improvement.

To always consider Health and Safety of paramount importance and to responsibly care for our environment, property and above all, persons that come within the range of our responsibility.

To build an ongoing successful business for the benefit of the staff and the community.



Kova Clamps

Kova clamps are a proven modular design that has broad industry acceptance, and comply with the universally recognised DIN 3015. Designed to give your project reliable and easy installation with a neat professional functionality, use of Kova clamps also reduces transmitted pipe noise and vibration.

They come with a wide range of sizes and materials, this catalogue sets out the common configurations in user-friendly complete-assembly tables to save you time and money and to make your selection process very easy.

Kova clamps are suited for pipe, tube or hose installations. The grooved-internal clamps are recommended for pipe or tube applications, while the smooth bore clamps are recommended for hose applications. Dimensions of grooved clamp bodies provide for a tension clearance between clamp halves. Smooth bore clamp halves are designed without the additional tension clearance.

As installation of Kova clamps is beyond our control, it remains the responsibility of the user to assure themselves of the suitability of each application. Kova clamps are available in a wide spectrum of combinations, both the body materials and the metal hardware. Speak to our technical department for specialist applications. We are constantly growing and improving our range, so if the product you want is not listed here, ask—we are here to help and if we don't have an existing solution, we will find or create a new solution.

We are passionate about our customer-oriented service, and in delivering the goods when and where you need them.

Kova Clamps are ideal for:

Industrial Hydraulics

Mobile Hydraulics

Marine Hydraulics

Rail transport

Construction vehicles

Offshore

General Industrial Pipe Construction

Mining Industry

Nuclear Reactor Construction

Instrumentation and Control Technology

Pneumatics

Oil and fuel lines

Process lines



Recommended spacing for Europress stainless steel or Unipe Aluminium

Pipe O.D (mm)	Span $\bar{L}$ (m)
6-14	0.9
15-22	1.2
23-28	1.5
30-38	2
40-48.3	2.5
50-57	3
60.3-70	3.4
73-88.9	3.7
90-108	4
114-140	4.3
140-165.1	5
168.3-220	5.5

If welding base plates to a support structure, welding must be done before clamp halves are assembled on the base.

As a regular feature of series A and B clamps, screws, rail nuts and cover plates are chromium VI free zinc coated, welding plates phosphatized and mounting rails uncoated.

As a regular feature of series C clamps, all metal parts are uncoated and phosphatized.

All metal parts of the different construction series are available ex stock in stainless steel type W5 (AISI 316).

Other surface treatments are available upon request.

There is a range of materials available to cover most applications whether it be temperature related or chemical resistance.



Chemical Resistance	Polypropylene -30 - +90	Polyamide -40 - +120	Aluminium -40 - +300
Weak Acids	limited resistance	limited resistance	limited resistance
Weak Alkalis	limited resistance	limited resistance	limited resistance
Alcohol	resistant	resistant	resistant
Petrol	limited resistance	resistant	resistant
Mineral Oils	limited resistance	resistant	resistant
Other Oils	resistant	resistant	resistant



For easy identification, Kova clamps have both the body group and the size moulded into the clamp halves.

*Illustrated:
Gr.L6 (Light series group 6)
Ø 50.8 (diameter 50.8)*



Kova Clamp Materials

Code	Material	Design	Colour	Temp range	Density	Impact resistance	Bending Strength	Compressive Strength	Modulus of Elasticity	Tensile stress
P	Polypropylene		Green	-30 +90 °C	0.906 g/cm ³	no fracture	36 N/mm ²	90 N/mm ²	25-35 N/mm ²	25-35 N/mm ²
M	Polyamide		Black	-40 +120 °C	1.12 - 1.15 g/cm ³	no fracture	130-200 N/mm ²	120 N/mm ²	3000 N/mm ²	80-90 N/mm ²
A	Aluminium		Natural	-50 +300 °C						
C	Steel			-80 +500 °C						
O	POM			-80 +500 °C						
S	Stainless steel		Natural	-80 +500 °C						



Clamping Force

Light Series (DIN 3015, part1)

Clamp Body Group	Hex Head Bolt	POLYPROPYLENE		POLYAMIDE	
		Bolt tightening torque Nm	Clamping force kN	Bolt tightening torque Nm	Clamping force kN
0	M6	8	0.6	10	0.6
1	M6	8	1.1	10	0.7
2	M6	8	1.3	10	0.8
3	M6	8	1.4	10	1.6
4	M6	8	1.5	10	1.7
5	M6	8	1.9	10	2
6	M6	8	2	10	2.5

Heavy Series (DIN 3015, part 2)

Clamp Body Group	Hex Head Bolt	POLYPROPYLENE		POLYAMIDE	
		Bolt tightening torque Nm	Clamping force kN	Bolt tightening torque Nm	Clamping force kN
1	M10	12	1.6	20	4.2
2	M10	12	2.9	20	4.5
3	M10	15	3.3	25	5.1
4	M12	30	8.2	40	9.3
5	M16	45	11	55	21.3
6	M20	80	14	150	25.8
7	M24	110	28	200	32
8	M30	180	40	350	48

Twin Series (DIN 3015, part 3)

Clamp Body Group	Hex Head Bolt	POLYPROPYLENE		POLYAMIDE	
		Bolt tightening torque Nm	Clamping force kN	Bolt tightening torque Nm	Clamping force kN
1	M6	5	0.9	5	0.9
2	M8	12	2.1	12	2.2
3	M8	12	1.9	12	2
4	M8	12	2.7	12	2.9
5	M8	8	1.7	8	2.5



Kova Ordering Matrix

K S H P G • 4 2 0150

KOVA PREFIX

Plates & Bolt Material

S : 316

U : 304

Z : Galvanised

Series

L : Light

T : Twin

H : Heavy

Body Material

P : Polypropylene

M : Polyamide

A : Aluminium alloy

C : Steel

O : POM

S : Stainless Steel

Interior surface

G : Grooved

S : Smooth

Combination

3 : Hex bolts, cover plate, clamp body, welded base plate

4 : Hex bolts, cover plate, clamp body, long base plate

6 : Hex bolts, cover plate, clamp body, rail nuts

9 : Stacking bolts, safety lock plate, clamp body

Clamp Body Group

0 : Single bolt 6 - 12mm

1 : Double bolt 6 - 12mm

2 : Double bolt 12.7 - 18mm

3 : Double bolt 19 - 25mm

4 : Double bolt 26.9 - 30mm

5 : Double bolt 32 - 42mm

6 : Double bolt 44.5 - 50.8mm

7 : Double bolt 57.2 - 76.1mm

8 : Double bolt 88.9 - 102mm

9 : Double bolt

Pipe O.D

See relevant Clamp Combination Page

K S L - G • 4 0150

KOVA PREFIX

Plates & Bolt Material

S : 316

Z : Galvanised

Series

L : Light

T : Twin

H : Heavy

Spare Part

B : Bolt

C : Stacking Bolt

E : Extended Base Plate

G : Grooved Body

L : Lock Plate

M : Mounting Plate for Strut

N : Rail Nut

R : Rail

S : Smooth Body

T : Top Plate

U : Universal Strut Nut

V : Anti Vibration Shell

W : Welded Base Plate

Clamp Body Group

0 : Single bolt 6 - 12mm

1 : Double bolt 6 - 12mm

2 : Double bolt 12.7 - 18mm

3 : Double bolt 19 - 25mm

4 : Double bolt 26.9 - 30mm

5 : Double bolt 32 - 42mm

6 : Double bolt 44.5 - 50.8mm

7 : Double bolt 57.2 - 76.1mm

8 : Double bolt 88.9 - 102mm

H4 : Heavy Double bolt 42 - 70mm

H5 : Heavy Double bolt 70 - 89.9mm

H6 : Heavy Double bolt 89.9 - 133mm

H7 : Heavy Double bolt 133 - 168mm

H8 : Heavy Double bolt 168 - 219mm

H9 : Heavy Double bolt 219 - 324mm

H10 : Heavy Double bolt 356 - 406mm

H11 : Heavy Double bolt 419 - 508mm

Pipe O.D

See relevant Clamp Combination Page



LIGHT SERIES BOLTED KOVA CLAMPS

K S L P G • 4 2 0150

Kova Clamp

Plates & Bolts

S: 316 SS

U: 304 SS

Z: Galvanised

Series

L: Light

Material

P: Polypropylene

M: Polyamide

A: Aluminium Alloy

C: Steel

O: POM

S: Stainless Steel

Interior Surface

G: Grooved

S: Smooth

Pipe O.D.

Clamp Body Group

1: Double bolt 6 - 12mm

2: Double bolt 12.7 - 18mm

3: Double bolt 19 - 25mm

4: Double bolt 26.9 - 30mm

5: Double bolt 32 - 42mm

6: Double bolt 44.5 - 54mm

7: Double bolt 57.2 - 76.1mm

8: Double bolt 88.9 - 102mm

Combination

4: Hex head bolts, cover plate, clamp body, long base plate

Polyprop body
Polyprop body

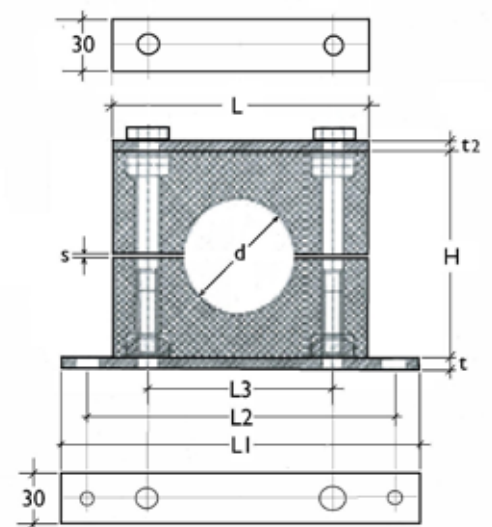
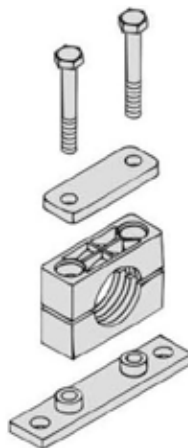
Grooved inside
Smooth inside

-30 to +90°C
-30 to +90°C

Polyamide
Polyamide

Grooved inside
Smooth inside

-40 to +120°C
-40 to +120°C





LIGHT SERIES BOLTED KOVA CLAMPS

DIN 3015

Light Series Clamp Sets Combination 4

Hex head bolts, Cover plate, Clamp body, Long base plate for bolting



LIGHT DUTY Combination 4

Part #	Clamp body group	d diameter	diameter code	inch OD		L	L1	L2	L3	H	s tension clearance	t	t2
KZLPG.410060	1	6	0060			37	64	50	20	27	0.4	3	3
KZLPG.410064		6.4	0064	1/4									
KZLPG.410080		8	0080	1/3									
KZLPG.410095		9.5	0095	3/8	tube								
KZLPG.410010		10	0100	3/8									
KZLPG.410120		12	0120										
KZLPG.420127	2	12.7	0127	1/2	tube	42	70	56	26	33	0.6	3	3
KZLPG.420150		15	0150										
KZLPG.420160		16	0160	5/8									
KZLPG.420180		18	0180										
KZLPG.430191	3	19.05	0191	3/4	tube	50	78	64	33	36	0.6	3	3
KZLPG.430200		20	0200										
KZLPG.430213		21.3	0213	1/2	pipe								
KZLPG.430220		22	0220	7/8									
KZLPG.430250		25	0254	1	tube								
KZLPG.440269	4	26.9	0269	3/4	pipe	59	87	73	40	42	0.6	3	3
KZLPG.440280		28	0280										
KZLPG.450320	5	32	0320	1 1/4	tube	71	100	86	52	58	0.8	3	3
KZLPG.450337		33.7	0337	1	pipe								
KZLPG.450350		35	0350										
KZLPG.450380		38	0380	1 1/2	tube								
KZLPG.450420		42	0420	1 1/4	pipe								
KZLPG.460483	6	48.3	0483	1 1/2	pipe	86	115	100	66	66	0.8	3	3
KZLPG.460508		50.8	0508	2	tube								
KZLPG.460540		54	0540										
KZLPG.470603	7	60.3	0603	2	pipe	121	150	136	94	93	0.8	3	5
KZLPG.470761		76.1	0761	3	tube								
KZLPG.480889	8	88.9	0889	3	pipe	147	178	162	120	118	0.8	3	5

Other Sizes Available on Request



LIGHT SERIES RAIL MOUNTED KOVA CLAMPS

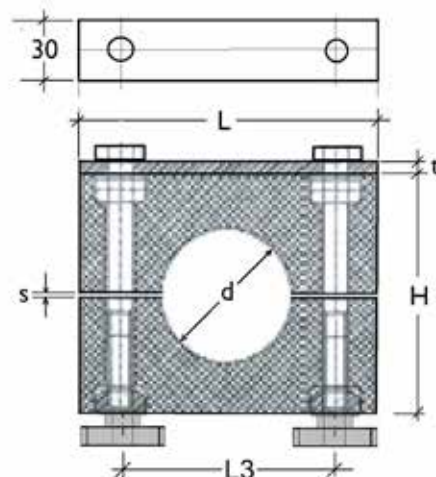
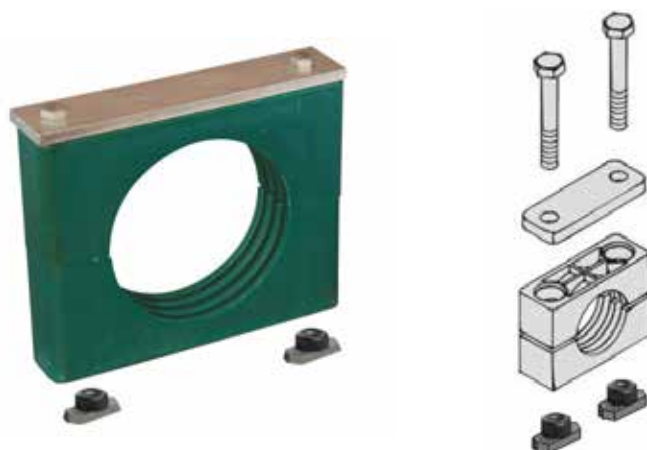
Light Series Rail Nut Kova Clamps

Light Series Combination 6

Hex head bolts, Cover plate, Clamp body, Rail nuts*

*to suit Kova rail (see page 16)

	K	S	L	P	G	•	6	2	0150	
Kova Clamp										Pipe O.D.
Plates & Bolts										
S: 316 SS										
U: 304 SS										
Z: Galvanised										
Series										
L: Light										
Material										
P: Polypropylene										
M: Polyamide										
A: Aluminium Alloy										
C: Steel										
O: POM										
S: Stainless Steel										
Interior Surface										
G: Grooved										
S: Smooth										
Clamp Body Group										
1: Double bolt 6 - 12mm										
2: Double bolt 12.7 - 18mm										
3: Double bolt 19 - 25mm										
4: Double bolt 26.9 - 30mm										
5: Double bolt 32 - 42mm										
6: Double bolt 44.5 - 50.8mm										
7: Double bolt 57.2 - 76.1mm										
8: Double bolt 88.9 - 102mm										
Combination										
4: Hex head bolts, cover plate, clamp body, rail nuts										





LIGHT SERIES RAIL MOUNTED CLAMPS

DIN 3015

Light Series Rail mounted Combination 6

Hex head bolts, Cover plate, Clamp body, Rail nuts



LIGHT Series RAIL MOUNTED Combination 6

Insert Z or S in place of the * if Zinc plated or Stainless steel required

Part #	Clamp body group	d diameter	diameter code	inch ID	inch OD	L	L3	H	S tension clearance	L4 lock plate	B1 bolt
K*LPG.910060	1	6	0060			37	20	27	0.4	3	M6 x 30
K*LPG.910064		6.4	0064		1/4						
K*LPG.910080		8	0080		5/16						
K*LPG.910095		9.5	0095		3/8						
K*LPG.910100		10	0100	1/8							
K*LPG.910120		12	0120								
K*LPG.920127	2	12.7	0127		1/2	42	26	33	0.6	3	M6 x 35
K*LPG.920135		13.5	0135	1/4							
K*LPG.920140		14	0140								
K*LPG.920150		15	0150								
K*LPG.920160		16	0160		5/8						
K*LPG.920172		17.2	0172	3/8							
K*LPG.920180		18	0180								
K*LPG.930190	3	19	0190		3/4	50	33	36	0.6	3	M6 x 40
K*LPG.930200		20	0200								
K*LPG.930213		21.3	0213	1/2							
K*LPG.930220		22	0220		7/8						
K*LPG.930250	4	25	0250		1	59	40	42	0.6	3	M6 x 45
K*LPG.940269		26.9	0269	3/4							
K*LPG.940280		28	0280								
K*LPG.940300	5	30	0300			71	52	58	0.8	3	M6 x 60
K*LPG.950320		32	0320		1 1/4						
K*LPG.950337		33.7	0337	1							
K*LPG.950350		35	0350								
K*LPG.950380		38	0380		1 1/2						
K*LPG.950400		40	0400								
K*LPG.950420	6	42	0420	1 1/4		86	66	66	0.8	3	M6 x 70
K*LPG.960445		44.5	0445		1 3/4						
K*LPG.960483		48.3	0483	1 1/2							
K*LPG.960508		50.8	0508		2						
K*LPG.970572	7	57.2	0572		2 1/4	121	94	93	0.8	5	M6 x 100
K*LPG.970603		60.3	0603	2							
K*LPG.970635		63.5	0635		2 1/2						
K*LPG.970700		70	0700		2 3/4						
K*LPG.970730		73	0730								
K*LPG.970761	8	76.1	0761	2 1/2	3	147	120	118	0.8	5	M6 x 125
K*LPG.980888		88.9	0889	3							
K*LPG.980889		102	1020		4						

Other Sizes Available on Request



LIGHT SERIES STACKING KOVA CLAMPS

DIN 3015

Light Duty Stacking Clamp Sets - Light Series Clamp Sets Combination 4

Stacking bolts, Lock plate, Clamp body *

*Note To be ordered with corresponding combination 3,4 or 6 set

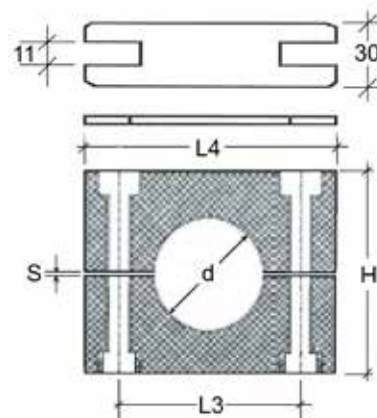
	K	S	L	P	G	•	9	4	0150	
Kova Clamp										Pipe O.D.
Plates & Bolts										
S: 316 SS										
U: 304 SS										
Z: Galvanised										
Series										
L: Light										
H: Heavy										
Material										
P: Polypropylene										
M: Polyamide										
A: Aluminium Alloy										
C: Steel										
O: POM										
S: Stainless Steel										
Interior Surface										
G: Grooved										
S: Smooth										

Clamp Body Group

- 1:** Double bolt 6 - 12mm
- 2:** Double bolt 12.7 - 18mm
- 3:** Double bolt 19 - 25mm
- 4:** Double bolt 26.9 - 30mm
- 5:** Double bolt 32 - 42mm
- 6:** Double bolt 44.5 - 50.8mm
- 7:** Double bolt 57.2 - 76.1mm
- 8:** Double bolt 88.9 - 102mm

Combination

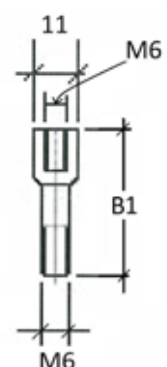
- 9:** Stacking bolts, safety lock plate, clamp body



STACKING BOLTS

LOCK PLATE

CLAMP BODY





LIGHT SERIES STACKING KOVA CLAMPS

LIGHT Series STACKING Combination 9

Part #	Clamp body group	d diameter	diameter code	inch ID	inch OD	L	L3	H	S tension clearance	L4 lock plate	B1 bolt
KZLPG.910060	1	6	0060			37	20	27	0.4	34	M6 x 34
KZLPG.910064		6.4	0064		1/4						
KZLPG.910080		8	0080		5/16						
KZLPG.910095		9.5	0095		3/8						
KZLPG.910100		10	0100	1/8							
KZLPG.910120		12	0120								
KZLPG.920127	2	12.7	0127		1/2	42	26	33	0.6	40	M6 x 40
KZLPG.920135		13.5	0135	1/4							
KZLPG.920140		14	0140								
KZLPG.920150		15	0150								
KZLPG.920160		16	0160		5/8						
KZLPG.920172		17.2	0172	4/8							
KZLPG.920180	3	18	0180			50	33	36	0.6	47	M6 x 44
KZLPG.930190		19	0191		3/4						
KZLPG.930200		20	0200								
KZLPG.930213		21.3	0213	1/2							
KZLPG.930220		22	0220		7/8						
KZLPG.930250		25	0254		1						
KZLPG.940269	4	26.9	0269	3/4		59	40	42	0.6	56	M6 x 48
KZLPG.940280		28	0280								
KZLPG.940300		30	0300								
KZLPG.950320	5	32	0320		1 1/4	71	52	58	0.8	69	64
KZLPG.950337		33.7	0337	1							
KZLPG.950350		35	0350								
KZLPG.950380		38	0380		1 1/2						
KZLPG.950400		40	0400								
KZLPG.950420		42	0420	1 1/4							
KZLPG.960445	6	44.5	0445		1 3/4	86	66	66	0.8	85	73
KZLPG.960483		48.3	0483	1 1/2							
KZLPG.960508		50.8	0508		2						
KZLPG.970572	7	57.2	0572		2 1/4	121	94	93	0.8	117	99
KZLPG.970603		60.3	0603	2							
KZLPG.970635		63.5	0635		2 1/2						
KZLPG.970700		70	0700		2 3/4						
KZLPG.970730		73	0730								
KZLPG.970761		76.1	0761	2 1/2	3						
KZLPG.980888	8	88.9	0889	3		147	120	118	0.8	143	124
KZLPG.980889		102	0102		4	147	120	118	0.8	143	124

Other Sizes Available on Request



HEAVY SERIES BOLTED KOVA CLAMPS

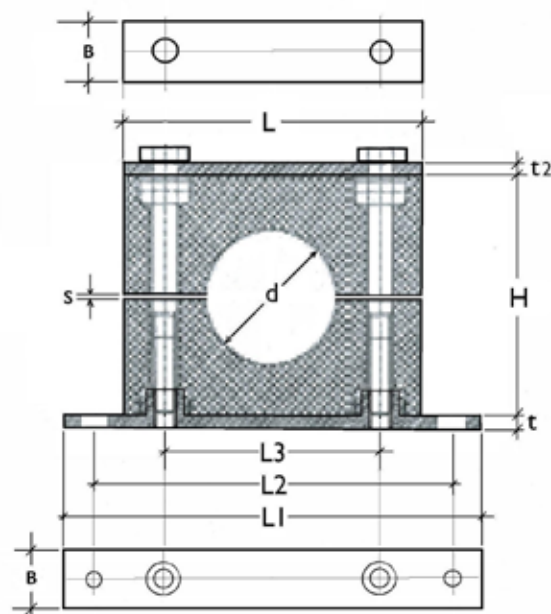
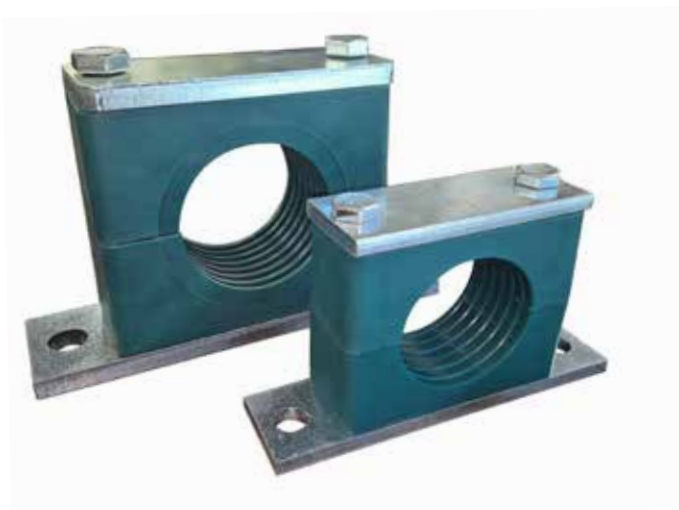
DIN 3015

HEAVY Series Combination 4

Hex head bolts, Cover plate, Clamp body, Long base plate

Other sizes available on request

	K	S	H	P	G	•	4	6	0889	
Kova Clamp										Pipe O.D.
Plates & Bolts										
S: 316 SS										
U: 304 SS										
Z: Galvanised										
Series										
H: Heavy										
Material										
P: Polypropylene										
M: Polyamide										
A: Aluminium Alloy										
C: Steel										
O: POM										
S: Stainless Steel										
Interior Surface										
G: Grooved										
S: Smooth										
Clamp Body Group										
(H)4: Double bolt 42 - 70mm										
(H)5: Double bolt 70 - 88.9mm										
(H)6: Double bolt 88.9 - 133mm										
(H)7: Double bolt 133 - 168mm										
(H)8: Double bolt 168 - 219mm										
(H)9: Double bolt 219 - 324mm										
Combination										
4: Hex head bolts, cover plate, clamp body, rail nuts										





HEAVY SERIES BOLTED KOVA CLAMPS

Heavy Duty Bolted Base

Part #	Clamp body group	d diameter	diameter code	inch ID	inch OD	L	L1	L2	L3	H	S	B	t	t2	bolt
KZHPG.440420	H4	42	0420	1¼		115	187		90	89	3	45	10	8	M12 x 100
KZHPG.440445		44.5	0445		1¾										
KZHPG.440483		48.3	0483	1½											
KZHPG.440508		50.8	0508		2										
KZHPG.440550		55	0550												
KZHPG.440570		57	0570												
KZHPG.440603		60.3	0603	2											
KZHPG.440635		63.5	0635		2½										
KZHPG.440650		65	0650												
KZHPG.440700		70	0700												
KZHPG.450700	H5	70	0700			150	238	198	122	120	3	60	10	8	M16 x 130
KZHPG.450750		75	0750												
KZHPG.450761		76.1	0761	2½	3										
KZHPG.450800		80	0800												
KZHPG.450825		82.5	0825		3¼										
KZHPG.450889		88.9	0889	3											
KZHPG.4610889	H6	88.9	0889	3		205	309	259	168	167	4	80	15	12	M20 x 190
KZHPG.461000		100	1000												
KZHPG.461020		102	1020												
KZHPG.461080		108	1080		4										
KZHPG.461140		114	1140												
KZHPG.461270		127	1270												
KZHPG.461330		133	1330												
KZHPG.471330	H7	133	1330			250	370	310	205	200	4	90	15	12	M24 x 220
KZHPG.471400		140	1400	5											
KZHPG.471520		152	1520		6										
KZHPG.471590		159	1590		6¼										
KZHPG.471650		165	1650		6½										
KZHPG.471680		168	1680	6											
KZHPG.481680	H8	168	1680	6		336			265	270	5	120	25	20	M30 x 300
KZHPG.481778		177.8	1778		7										
KZHPG.481937		193.7	1937		7½										
KZHPG.482160		216	2160		8½										
KZHPG.482190	H9	219	2190	8		470			395	410	8	160	30	25	M30 x 450
KZHPG.492190		219	2190	8											
KZHPG.492730		273	2730	10											
KZHPG.493240	H10	324	3240	12		630			534	530	20	180	30	25	M30 x 560
KZHPG.4103560		356	3560	14											
KZHPG.4104060	H11	406	4060	16		788			670	660	40	230	40	30	M36 x 710
KZHPG.4114190		419	4190	18											
KZHPG.4115080		508	5080	20											



T1000GB



T1000GBS



T2000GB



T2000GBS



T4000GB



T5500GB

Bolted Clip Head Stainless Steel

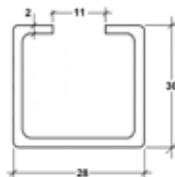
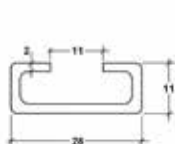
Part No.	Description	Width mm	Height mm	Length	Gauge mm	Finish	Load kg@ 250mm	Load kg@ 500mm	Load kg@ 750mm	Load kg@ 1500mm	Load kg@ 3000mm
T1000GB	standard	41	41	6m	2.5	Galvabond	1308	654	436	218	109
T1000HDGB	standard	41	41	6m	2.5	Hot Dip Galvanised	1308	654	436	218	109
T1000SS	standard	41	41	6m	2.5	Stainless Steel	1308	654	436	218	109
T1000GBS	standard, slotted	41	41	6m	2.5	Galvabond					
T2000GB	light weight, ribbed	41	41	6m	1.6	Galvabond	945	471	314	157	78
T2000HDGB	light weight, ribbed	41	41	6m	1.6	Hot Dip Galvanised	945	471	314	157	78
T2000GBS	light weight, ribbed, slotted	41	41	6m	1.6	Galvabond					
T3300GB	low profile	41	21	6m	2.5	Galvabond	945	471	314	157	78
T3300GBS	low profile, slotted	41	21	6m	2.5	Galvabond					
T3300HDGB	low profile	41	21	6m	2.5	Hot Dip Galvanised	945	471	314	157	78
T4000GB	low profile ribbed	41	21	6m	1.6	Galvabond	350	175	116	58	30
T5500GB	very heavy duty	41.3	61.9	6m	2.5	Galvabond	2488	1244	830	414	207

GALVABOND is a form of zinc coating that gives good rust protection. The zinc coating is applied at the steel mill in a continuous, thin film. The coated steel is then cut and formed, it has a better appearance than HDG.

HOT DIP GALVANISING products are dipped in molten zinc after they have been formed, giving a thicker coating that is more resistant to extremes of exposure. It has a more industrial-looking finish.

Kova Rails

Part No.	Description	Width mm	Height mm	Length	Thickness
KZL-R.011	Kova rail low profile	28	11	2m	2
KZL-R.030	Kova rail high profile	28	30	2m	2



KZL-R.030

KZL-R.011

Angle

Part No.	Description	Width mm	Height mm	Length	Finish
HSEA3030-3	Slotted Angle 3mm	30	30	3m	Galvabond
ALA2016	Aluminium Angle 1.6mm	20	20	6.5m	Aluminium
ALA4016	Aluminium Angle 1.6mm	40	40	6.5m	Aluminium



HSEA3030-3



ALA2016



STRUT HARDWARE

Strut Fittings

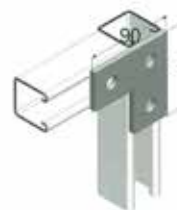
Part No.	Description	Finish	Weight kg
T1026	Strut Angle Bracket	Galvanised	0.17
T1031	T bracket 4 hole	Galvanised	0.44
T1036	L bracket 3 hole	Galvanised	0.11
T1045	Z fitting 3 hole	Galvanised	0.2
T1047	U fitting 5 hole	Galvanised	0.33
T1062	M8 plate	Galvanised	0.071
T1063	M10 plate	Galvanised	0.065
T1064	M12 plate	Galvanised	0.064
T1065	Joiner 2 hole	Galvanised	0.013
T1067	Joiner 4 hole	Galvanised	0.27
T1068	Angle bracket 41 x 57mm	Galvanised	0.14
T1180P	T2000B Channel end cap	Plastic	
T1271	Beam Clamps	Galvanised	0.47
T1325	Angle bracket 4 hole	Galvanised	0.28
T1326	Angle bracket 3 hole	Galvanised	0.24
T1386	H Beam clamp to strut <i>(Pair Required)</i>	Galvanised	0.11
T1796	H beam clamp to strut <i>(Pair Required)</i>	Galvanised	0.37
T2072A	Base plate 2 hole	Galvanised	1.5
T2346	Wing fitting HD	Galvanised	0.55
T2452	Angled brace	Galvanised	0.98
T2750	4 wheel strut trolley	Zinc plated	0.43
T2785	U bolt adjustable beam clamp <i>(Pair Required)</i>	Zinc plated	0.43
T3087	Internal column bracket <i>(Pair Required)</i>	Galvanised	0.84



T1026



T1031



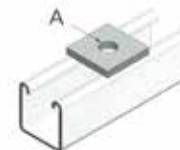
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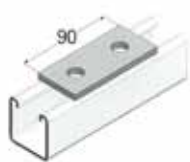
T1045



T1047



T1062/3/4



T1065



T1067



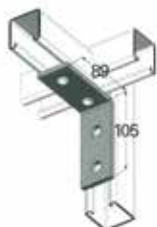
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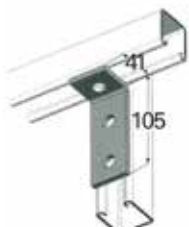
T1180P



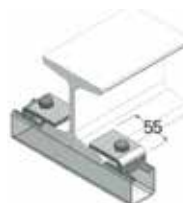
T1271



T1325



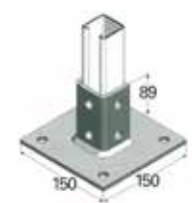
T1326



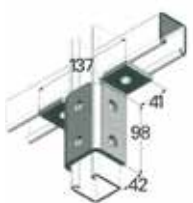
T1386



T1796



T2072A



T2346



T2452



T2750



T2785



T3087



CANTILEVER ARMS & STRUT NUTS

Universal Cantilever Arms



Part No.	Description	Load kg	Weight kg	Finish
TCA150	Cantilever arms 150mm	516	0.63	Galvanised
TCA200	Cantilever arms 200mm	350		Galvanised
TCA300	Cantilever arms 300mm	258	1.03	Galvanised
TCA350	Cantilever arms 350mm	220		Galvanised
TCA450	Cantilever arms 450mm	178	1.42	Galvanised
TCA500	Cantilever arms 500mm	150		Galvanised
TCA600	Cantilever arms 600mm	129	1.81	Galvanised
TCA750	Cantilever arms 750mm	103	2.21	Galvanised
TCA900	Cantilever arms 900mm	86	2.6	Galvanised

Strut Nuts



TSSN10



TSSN10SS



TSSN8S



TSSN10L



TSTN10



T2050



T2050



KSL-N-M06



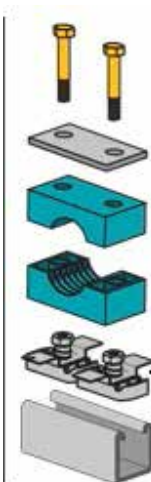
KSH-N-M112



KSL-U-M06

Part No.	Description	Finish
TSSN06	M6 Strut nut	Galvanised
TSSN06L	M6 Strut nut w long spring	Galvanised
TSSN06L-SS	M6 Strut nut w long spring	Stainless
TSSN8	M8 Strut nut	Galvanised
TSSN8S	M8 Strut nut w short spring	Galvanised
TSSN8L	M8 Strut nut w long spring	Galvanised
TSSN10	M10 Strut nut	Galvanised
TSSN10S	M10 Strut nut w short spring	Galvanised
TSSN10L	M10 Strut nut w long spring	Galvanised
TSSN10SS	M10 Strut nut stainless steel	Stainless
TSSN12	M12 Strut nut	Galvanised
TSSN12S	M12 Strut nut w short spring	Galvanised
TSSN12L	M12 Strut nut w long spring	Galvanised
TSSN12SS	M12 Strut nut stainless steel	Stainless
TSTN10	T-nut—strut nut fitted with M10 thread	Zinc plated
T2050	Threaded rod clamp fits m10 allthread with m10 stub thread	Zinc plated
KZL-N.M06	Kova Rail nuts to suit Light series plus Twin body group 1, M6	Zinc plated
KSL-N.M06	Kova Rail nuts to suit Light series, plus Twin body group 1, M6	Stainless steel
KZT-N.M08	Kova Rail nuts Twin series body group 2,3, 4 & 5, M8	Zinc
KZH-N.M12	Kova Rail nuts Heavy series body group 4, M12	Zinc
KZL-U.M06	Strut nut adaptor attaches Kova clamps to Universal strut M6	Zinc plated
KSL-U.M06	Strut nut adaptor attaches Kova clamps to Universal strut M6	Stainless steel

Typical Application KZL-U.M06



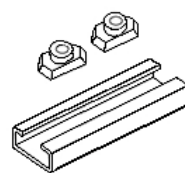
KZL Strut Nuts



KSH-N-M112



Application TSSN10L



Application KSL-N.M06



HANGING SYSTEM ACCESSORIES

Hanging System Accessories

Part No.	Description
HS1	Purlin clip for wire or 3mm rod
HS1A	Long purlin clip can mount CL clips
HS2A	Beam clamp 3mm - 7mm Spring steel
HS2B	Beam clamp 8mm - 13mm Spring steel
HS2C	Beam clamp 14mm - 20mm Spring steel
HS2U	Beam clamp spring steel >16mm, suits 6mm or 10mm bolts (use HS11/4x1 fastener for CL clips)
HS3	Universal clamp < 17mm beam
HS3-30	Universal clamp < 30mm beam
HS3-45	Universal clamp < 45mm beam
HSP10	Purlin clip for 10mm allthread
HSPH10	Heavy duty purlin clip for 10mm allthread
HSPH12	Heavy duty purlin clip for 12mm allthread
HSCMP08	Mounting plate centre M8
HSCMP10	Mounting plate centre M10
HSCMP10SS	Mounting plate centre M10 Stainless Steel
HSCMP12	Mounting plate centre M12
HSHP10	Mounting plate horizontal M10
HSHP12	Mounting plate horizontal M12
HSVMP10	Mounting plate vertical M10
HSVMP12	Mounting plate vertical M12
HSCSP10	mounting plate w M10 x 30 set screw
HSJM08	Threaded Rod Hex Joiner M8
HSJM10	Threaded Rod Hex Joiner M10
HSJM12	Threaded Rod Hex Joiner M12
HSN08	Threaded rod nut 8mm
HSN10	Threaded rod nut 10mm
HSN12	Threaded rod nut 12mm
HSROD08	Threaded rod M8 x 3m Zinc plated
HSROD08SS	Threaded rod M8 x 3m 316 Stainless steel
HSROD10	Threaded rod M10 x 3m Zinc plated
HSROD10SS	Threaded rod M10 x 3m 316 Stainless steel
HSROD12	Threaded rod M12 x 3m Zinc plated
HSROD12SS	Threaded rod M12 x 3m 316 Stainless steel
HSSM10x40	M10 stud x 40mm zinc plated
HSTKN10	Beam clamp < 16mm, mounts 10mm threaded rod
HSTKN12	Beam clamp < 16mm, mounts 12mm threaded rod
JC2.530	Jack chain 2.5mm 30m bucket



HS1



HS1A



HS2A/B/C



HS2U



HS3/30/45



HSP10



HSPH10/12



HSCMP08/10/12



HSHP10/12



HSVMP10/12



HSCMP10SS



HSCSP10



HSJM08/10/12



HSN08/10/12



HSROD08/10/12



HSSM10x40



HSTKN10/12



JC2530



CANTILEVER ARMS & STRUT NUTS

System Accessories



CPF



Typical hanging hose option



WPF



SSWCP



FMP



ESC



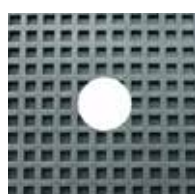
DEK



DEKCL



F35.02-20



AVR-S



TS2-GW



TS11-OX



TS6



EFPW



SL

Part No.	Description	Size
CPF14	Ceiling Penetration Flange, protects penetrations in plaster ceilings or ceiling tiles, restricts entry of insects etc.	≤ 14mm
CPF19		≤ 19mm
CPF25		≤ 25mm
CPF32		≤ 32mm
CPF38		≤ 38mm
CPF48		≤ 48mm
WPF15	Wall Penetration Flange PN16 suits wall thickness up to 85mm	½" bsp
FMP	Floor mount post for power, data point, compressed air outlet hose reel etc.	75 x 75 x 2m
SSWCP15	Stainless steel mounting flange with female outlet	½" bsp
SSWCP20		¾" bsp
SSWCP25		1" bsp
SSWCP40		1 ½" bsp
SSWCP50		2" bsp
SSSC15	SS split half Escutcheon plates cover plates	15mm
SSSC22		22mm
SSSC28		28mm
SSSC35		35mm
SSSC42		42mm
SSSC54		54mm
DEK05-45	EPDM flexible weathertight seal suitable for pre or post installation. Ozone & UV resistant. Full range of sizes. -40° to 115°	05-45mm
DEK25-70		25-70mm
DEK50-100		50-100mm
DEK90-150		90-150mm
DEK110-170	Aluminium or SS clasp to seal retrofitted flashing	110-170mm
DEKCL		
AVR-S	Anti vibration rubber pad - honeycomb pattern	65 x65 x9
F35-02	Plastic packing shims 100 x 150	2mm
F35-05		5mm
F35-10		10mm
F35-15		15mm
F35-20		20mm
TS2-GW	Heavy duty grey teflon tape Multiple Purpose incl. Gas	12mm x 10m
TS1-OX	Heavy duty green teflon tape OXYGEN	12mm x 12m
TS6	Anerobic Thread Sealant	250ml
EFPW	90% Isopropyl Alcohol cleaner wipes Qty 100	200 x 100
SL	Silicone lubricant to assist in assembling fittings, (do not use on spray paint applications)	500ml



FASTENERS

Fastener

Part No.	Description	gauge / diameter	length mm
F1	Button head timber point	7 #	25
F1M	Button head metal self drilling	8 #	25
F2	Button head timber point	8 #	32
F3	Button head timber point	10 #	40
F4	PVC wall plug green	6.5	30
F5	Hex head self taper timber point	12 #	45
F5-SH	Hex head self taper timber short	12 #	25
F6	Hex head self taper metal	12 #	45
F6-25	Hex head self taper metal Short	12 #	25
F6-SH	Hex head self taper metal Short	10 #	16
F7	Hex head self taper metal	12 #	75
F8	Hex head self taper metal long drill point	12 #	32
F9	Hex head self taper metal long drill point	12 #	50
F10	Hex head self taper timber point	12 #	90
F10M	Hex head self taper metal self drilling	12 #	90
F11	Nylon anchor	50	40
F12	Nylon anchor	6.50	25
F13	Nylon anchor	6.50	40
F14	Nylon anchor	6.50	50
F15	Nylon anchor	6.50	75
F20	Toggle bolts		
F21	Dynabolts	6.5	40
F22	Dynabolts	8	40
F23	Dynabolts	10	40
F24	Dynabolts	10	50
F25	Dynabolts	10	60
F26	Dynabolts	20	60
F27	Dynabolts	16	65
F28-M6	Drop in Anchor	M6	
F28-M8	Drop in Anchor	M8	
F28-M10	Drop in Anchor	M10	
F29-M12	Drop in Anchor	M12	
F30	Plastermate Nylon		
F40	Square nut & bolt to suit CL clips	M5	12
CT1	Cable Ties pkt 100	4.8	190
CT2	Cable Ties pkt 100	4.8	300
CT3	Cable Ties pkt 100	4.8	370
CT4	Cable Ties pkt 100	7.6	370
HSI1/4X1	Pan head 1/4" suit HS2U	1/4"	1"
HSVC10	Self tapping masonry x 10mm fem bsp	10mm	
HSVC10S	Self tapping masonry x 10mm male bsp	10mm	20mm
HSVH10	Self taper steel horizontal fem bsp	10mm	
HSVV10	Self taper steel vertical fem bsp	10mm	
HSVT1	Self taper timber vertical fem bsp	10mm	25mm
HSVT2	Self taper steel vertical fem bsp	10mm	50mm



F1,2,3



F1M



F4



F5, F5-SH, F10



F6, F6-25,
6-SH, 7, 10M



F8, 9



F11-15



F20



F21-27



F28-29



F30



F40



CT1,2,3,4



HSI1/4X1



HSVC10



HSVC10S



HSVH10



HSVV10



HSVT1



HSVT2

These innovative and versatile Pipe Clips are packed with features that provide a simple, quick and robust solution to pipe mounting applications. Made from virgin polypropylene to prevent brittleness or breakages from recycled material. Environmentally friendly, 100% recyclable.

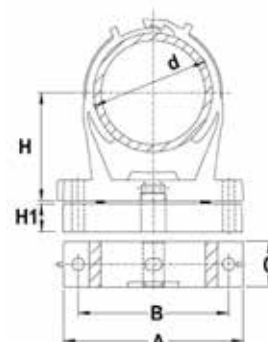
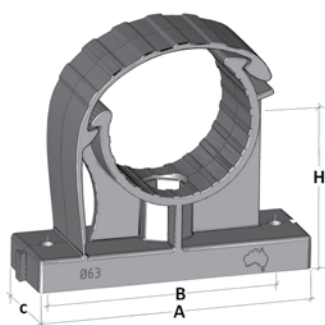
Innovative design features include:

- One piece construction- no loose nuts, bolts saddles etc
- Choice of centre or side fixing
- Centre recess holds 6mm nut for special applications
- Compatible for nylon anchors
- Slots for secure cable tie applications
- Open access for drills or cordless tools
- Secure positive double latch design
- Anti friction grooves facilitate longitudinal pipe expansion



CL Clips

Code	Size d	A	B	C	H	H1	weight g
CL 20	18 - 22	56	41.5	14	28	10	10
CL 25	25 - 28	62	47	16	30	10	13.6
CL 32	31 - 35	67	52	16	35	10	15.8
CL 40	39 - 44	86	70	18	40	10	21
CL 50	48 - 53	94	78	18	46	10	24.6
CL 63	63	123	103	40	70	n/a	77.4





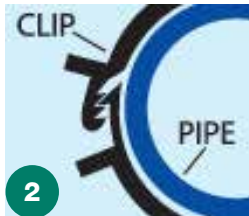
KWIKCLIPS INSTALLATION

Installation Steps



1

Mount clips at approved spacing, allowing for expansion and extra support either side of branch lines, droppers or isolating valves.



2

When mounting clips vertically for a horizontal pipeline, ensure the female ratchet is uppermost.



3

Spread apart the 2 arms of the clip and insert the pipe.



4

Press the pipe down into the clip so that the 2 arms self-lock around the pipe. Adjust the tightness of the ratchet grip.



5

To remove the pipe from the clip, push the 2 arms in opposite directions longitudinally to disengage the ratchet.

When installing plastic pipework, clip spacing may need to be adjusted for ambient temperatures that may be encountered. Refer to technical department. For vertical pipework, clip spacing can be increased approx. 20%. Spacing will need to be decreased if pipework is conveying liquids.

MAXAIR Pipe Support Spacing

Code	Up to 25°C	Up to 50°C
AIR20	700	600
AIR25	900	750
AIR32	1200	900
AIR40	1400	1100
AIR50	1600	1200
AIR63	1800	1400

These clips have a unique attached spacer that provides additional clearance from walls or panelling to allow for bulkier fittings or other conduits and services. This spacer can be easily detached if not needed, or simply folded out to the side. Generally one centre fixing is mostly used, but the clip design allows for multiple options.

Spacing (m) of clips or brackets for Europress stainless steel or Unipipe aluminium tubing carrying fluids. Can be increased for gases

Pipe mm O.D.	15	22	28	35	42	54
DN	12	20	25	32	40	50
Recommended	1.5	1.5	2	2.5	2.5	3
Maximum	1.5	2	2.4	3	3	3



CLIPS STAINLESS STEEL OR ZINC PLATED

Bolted Clip Head Insulated Zinc Plated



User-friendly single swing bolt design

Part No.	Size Ømm range	Description	Europress preferred	Unipipe preferred
HZIP.000015	12 - 15	Insulated Zinc Bolted Clip Head M10	15	
HZIP.000022	20 - 25	Insulated Zinc Bolted Clip Head M10	22	20, 25
HZIP.000028	26 - 28	Insulated Zinc Bolted Clip Head M10	28	
HZIP.000035	32 - 35	Insulated Zinc Bolted Clip Head M10	32	32
HZIP.000042	40 - 42	Insulated Zinc Bolted Clip Head M10	40	40
HZIP.000054	50 - 56	Insulated Zinc Bolted Clip Head M10	50	50
HZIP.000063	63 - 67	Insulated Zinc Bolted Clip Head M10	63	63
HZIP.000076	74 - 80	Insulated Zinc Bolted Clip Head M10	76.1	
HZIP.000089	83 - 91	Insulated Zinc Bolted Clip Head M10	88.9	90
HZIP.000100	101 - 106	Insulated Zinc Bolted Clip Head M10		
HZIP.000108	108 - 114	Insulated Zinc Bolted Clip Head M10	108	110
HZIP.000144	140 - 144	Insulated Zinc Bolted Clip Head M10	139.7	
HZIP.000169	165 - 169	Insulated Zinc Bolted Clip Head M10	168.3	160

Options for zinc plated mounting plates see previous page



Bolted Clip Head Stainless steel

Part No.	Size Ømm	Description
HSNP.000015	15	S.S. Bolted Clip Head M10
HSNP.000022	22	S.S. Bolted Clip Head M10
HSNP.000028	28	S.S. Bolted Clip Head M10
HSNP.000035	35	S.S. Bolted Clip Head M10
HSNP.000042	42	S.S. Bolted Clip Head M10
HSNP.000054	54	S.S. Bolted Clip Head M10
HSNP.000076	76.1	S.S. Bolted Clip Head M10
HSNP.000089	88.9	S.S. Bolted Clip Head M10
HSNP.000108	108	S.S. Bolted Clip Head M10
HSNP.000168	168	S.S. Bolted Clip Head M12
HSCMP10SS	M10	Mounting plate centre Stainless Steel

Clip Head Stainless Steel

Part No.	Size Ømm	Description
HUNP.000015	15	S.S. Clip head w bolt, no bracket
HUNP.000022	22	S.S. Clip head w bolt, no bracket
HUNP.000028	28	S.S. Clip head w bolt, no bracket
HUNP.000035	35	S.S. Clip head w bolt, no bracket
HUNP.000042	42	S.S. Clip head w bolt, no bracket
HUNP.000054	54	S.S. Clip head w bolt, no bracket
HUNP.000076	76.1	S.S. Clip head w bolt, no bracket
HTNP.015108		Tee Bracket Stainless Steel for HUNP clip head



PROMEGA STRUT SYSTEM

Link Promega is a recent addition to the global modular strut systems. This versatile comprehensive bolt-together support system is available in: 50x50, 80x80, 100x100, 100x120, & 100x150mm.

The system is stronger & faster to install using the unique selftapping screws into the precise hole patterns.



Link Promega System Components

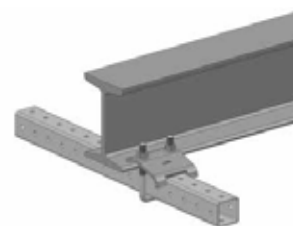
Part No.	Strut System Size mm	Description
LPAFP050	50 x 50	Flat L Plate 129 x 129
LPAFP080	80 x 80	Angle Flat L Plate 200 x 200
LPAFP100	100 x 100	Angle Flat L Plate 220 x 220
LPB50.3	50 x 50	Beam Section 6m
LPB080.3	80 x 80	Beam Section 6m
LPB100.3	100 x 100	Beam Section 6m
LPB120.4	120 x 100	Beam Section 6m
LPB150.4	150 x 100	Beam Section 6m
LPBCB050	50 x 50	Braced Corner Bracket 26 x 110 x 110
LPBCB080	80 x 80	Braced Corner Bracket 80 x 140 x 140
LPBCB100	100, 120, 150	Braced Corner Bracket 100 x 140 x 140
LPBCB120	120	Braced Corner Bracket 120 x 140 x 140
LPAB2050	50 x 50	2 Hole Angle bracket 61 x 61 x 35
LPAB4050	50 X 50	4 Hole Angle bracket 104 x 104 x 35
LPAB4080	80 x 80	4 Hole Angle Bracket 70 x 70 x 80
LPAB6080	80 x 80	6 Hole Angle Bracket 140 x 70 x 80
LPAB6100	100 x 100	6 Hole Angle Bracket 140 x 70 x 100
LPBCB080100	100 to 80	Reducing Corner Bracket 140 x 100 x 140 x 80
LPBCB100120	120 to 100	Reducing Corner Bracket 140 x 120 x 140 x 100
LPCB050.05	50 x 50 x 500	Cantilever Bracket wall mount 125 x 125 base
LPCB050.10	50 x 50 x 1000	Cantilever Bracket wall mount 125 x 125 base
LPCB050.15	50 x 50 x 1500	Cantilever Bracket wall mount 125 x 125 base
LPCB080.05	80 x 80 x 500	Cantilever Bracket wall mount 200 x 200 base
LPCB080.10	80 x 80 x 1000	Cantilever Bracket wall mount 200 x 200 base
LPCB080.15	80 x 80 x 1500	Cantilever Bracket wall mount 200 x 200 base
LPCB100.05	100 x 100 x 500	Cantilever Bracket wall mount 250 x 250 base
LPCB100.10	100 x 100 x 1000	Cantilever Bracket wall mount 250 x 250 base
LPCB100.15	100 x 100 x 1500	Cantilever Bracket wall mount 250 x 250 base



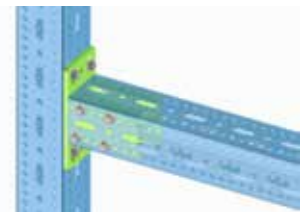
Link Promega System Components



Part No.	Size mm	Description
LPBP050	50 x 50	Base Plate 125 x 125
LPBP080	80 x 80	Base Plate 200 x 200
LPBP100	100 x 100	Base Plate 250 x 250
LPBP120	120 x 100	Base Plate 250 x 250
LPBP150	150 x 100	Base Plate 300 x 300
LPENC050	50 x 50	End Cap Plastic 50 x 50
LPENC080	80 x 80	End Cap Plastic 80 x 80
LPENC100	100 x 100	End Cap Plastic 100 x 100
LPENC120	120 x 100	End Cap Plastic 120 x 100
LPENC150	150 x 100	End Cap Plastic 150 x 100
LPES050	50	End Support 70 x 135
LPES080	80	End Support 80 x 190
LPES100	100	End Support 100 x 210
LPES120	120	End Support 100 x 230
LPUC050	50	U shaped coupling 50 x 50 x 200
LPEXC080	80	Extension Coupling 70 x 70 x 367
LPEXC100	100	Extension Coupling 90 x 90 x 367
LPEXC120	120	Extension Coupling 110 x 90 x 367
LPEXC150	150	Extension Coupling 140 x 90 x 367
LPJP8100	100 x 100	8 Hole Joiner Plate 140 x 200
LPKB050	50 x 50	Beam Clamp
LPKB080	80	Beam Clamp
LPKB100	100	Beam Clamp
LPKB120	120 x 100	Beam Clamp
LPKB150	150 x 100	Beam Clamp
LPPJB50	50 x 50 x 125	Pivot joint Base
LPPJB100	100 x 100 x 250	Pivot joint Base
LPPJS050	50 x 50	Pivot Joint Strut
LPPJS080	80 x 80	Pivot Joint Strut
LPPJS100	100 x 100	Pivot Joint Strut



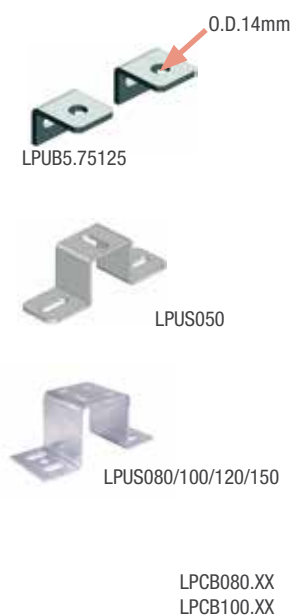
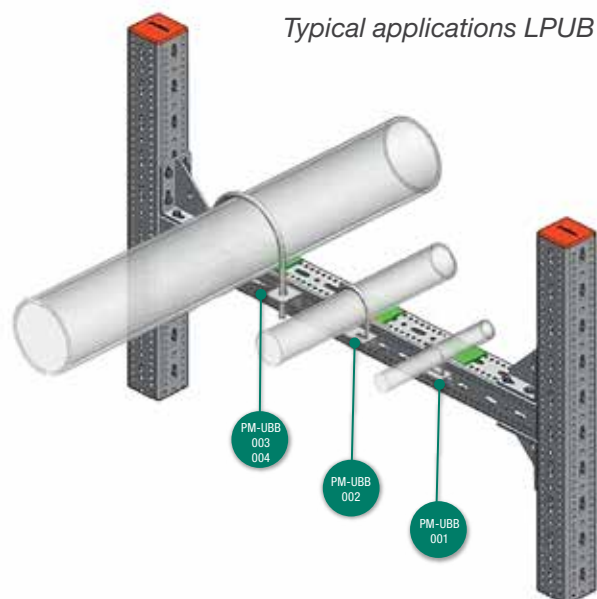
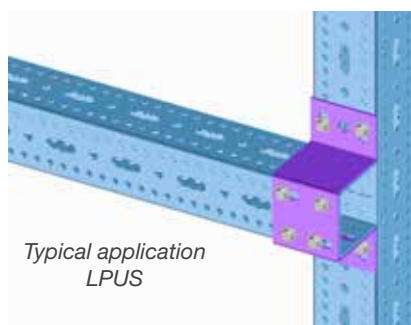
Typical application LPKB

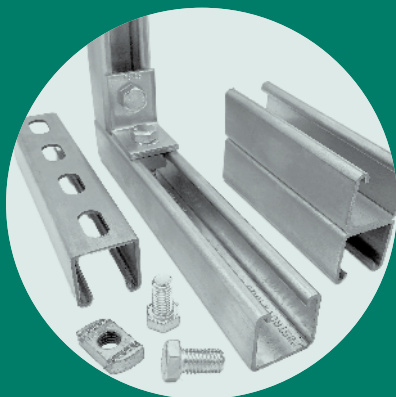


Typical Application LPES

Link Promega System Components

Part No.	Strut System Size mm	Description
LPQN10	M10	Quick Nut zinc plated
LPQN12	M12	Quick Nut zinc plated
LPQS10.30	M10 x 30	Quick Stud zinc plated
LPQS10.70	M10 x 70	Quick Stud zinc plated
LPSA80	80 x 80	Strut Adapter mounts universal strut to LP post
LPSA100	100 x 100	Strut Adapter mounts universal strut to LP post
LPSFS10	M10	Self Forming Screw M10
LPTFP045	50 x 50	Tee Flat Plate Fitting 106 x 127
LPTFP080	80 x 80	Tee Flat Plate Fitting 300 x 80 x 80
LPTFP100	100 x 100	Tee Flat Plate Fitting 300 x 100 x 100
LPHE050	50 x 50	Horizontal end support
LPUB5.1540	15-40 tube	U Bolt Support Bracket 50 beam 100 x 60 x 4
LPUB5.5076	50-75 tube	U Bolt Support Bracket 50 beam 140 x 60 x 4
LPUB5.75125	75-125 tube	U Bolt Support Bracket 50 beam (2 req) 50 x 60 x x 4 M12
LPUB5.150300	150-300 tube	U Bolt Support Bracket 50 beam (2 req) 50 x 60 x x 4 M16
LPUB1540	15-40 tube	U Bolt Bracket 80,100,120,150 beam 100 x 60 x 6
LPUB5075	50-75 tube	U Bolt Bracket 80,100,120,150 beam 140 x 60 x 6
LPUB75125	75-125 tube	U Bolt Bracket 80,100,120,150 beam (2 req) 50 x 60 x 6 M12
LPUB150300	150-300 tube	U Bolt Bracket 80,100,120,150 beam (2 req) 50 x 60 x 6 M16
LPUS050	50 x 50	U Shape Bracket
LPUS080	80 x 80	U Shape Bracket
LPUS100	100 x 100	U Shape Bracket
LPUS120	120 x 100	U Shape Bracket
LPUS150	150 x 100	U Shape Bracket





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