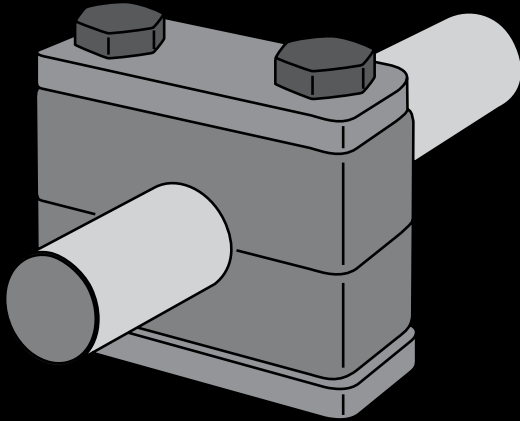


Clamps to DIN 3015



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Clamps to DIN 3015 are available in three types

- Part 1 – Standard series
- Part 2 – Heavy series
- Part 3 – Double series

Each series is organized into different group sizes, so that if we take the standard series Group 1 as an example, the same Group 1 size weld plates, cover plates and bolts are used for tube outside diameters ranging from 6mm to 12mm, but only the jaws designed for the specific size of either 6mm, 6.4mm, 8mm, 9.5mm, 10mm and 12mm needs to be changed.

Our clamps are manufactured in accordance with DIN 3015. They are mainly used in systems to secure tubes, pipes, hoses, cables, sensors and other system-critical components. They are used within a wide range of industries including shipbuilding, offshore, mobile hydraulic, paper industry, metal-processing industry, petrochemical, pharmaceutical, nuclear and the chemical industry.

We supply the jaw components in green polypropylene (PP), smooth green polypropylene (PPS), black polyamide (PA), smooth black polyamide (PAS), aluminium (AL), Santoprene™ (SA) and smooth Santoprene™ (SAS). We can also supply other materials on request – for example white or black polypropylene, or indeed any other materials in any colour you require.

The metallic parts are available in carbon steel, 304 stainless steel and 316 stainless steel. The parts are sold separately although certain types of build codes enable you to specify your requirement without having to order the component parts separately. We never supply clamps assembled, only as individual parts, unless you require us to build them up (a small charge applies for this service).

We always supply the clamp jaws as pairs. So, the price you see when we quote you is for two halves.

Please consult technical document DIN 3015 for more information regarding clamp positioning, spacing and other technical recommendations.

A modular system for fixing tube, hose and cables.

There are an unlimited number of applications for this type of clamping system, in part because of its high pressure, abrasion and low temperature resistance properties.

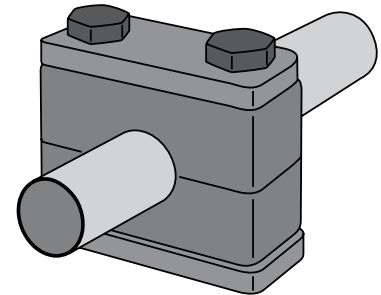
Listed below are just a few example applications.

Towards the end of the catalogue, you can find the mechanical and thermal properties of the clamping system.

The clamps are available in metric and imperial outside diameter and nominal bore sizes. Special sizes and build combinations are available upon request.

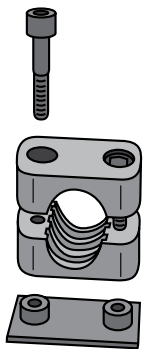
We can also supply the clamp jaws in bespoke colours.

The clamping system has excellent vibration damping properties, which helps to facilitate noise reduction and general system integrity.



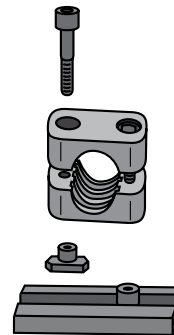
- Industrial hydraulics
- Mobile hydraulics
- Marine hydraulics
- Pipeline installation
- Printing technology
- Electrical engineering
- Building services
- Instrumentation and measurement technology
- Control systems

Assembly



Weld plate assembly

1. Electronically weld the weld plate into position.
2. Press the bottom half of the clamp onto the weld plate.
3. Mount the tube and screw the top clamp half onto the tube to finish the assembly.



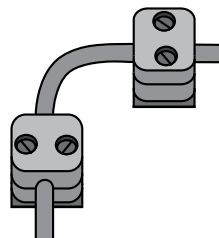
Mounting rail assembly

1. Insert the mounting rail nuts (SKM or BFM) into the mounting rail.
2. Press the lower clamp half into the mounting rail feet studs.
3. Mount the tube and screw the top clamp half onto the tube to finish the assembly



Stacking assembly

It's really easy to create a stacked assembly of clamps of the same group size when you use securing plates and stacking bolts.



Always secure tube bends twice.

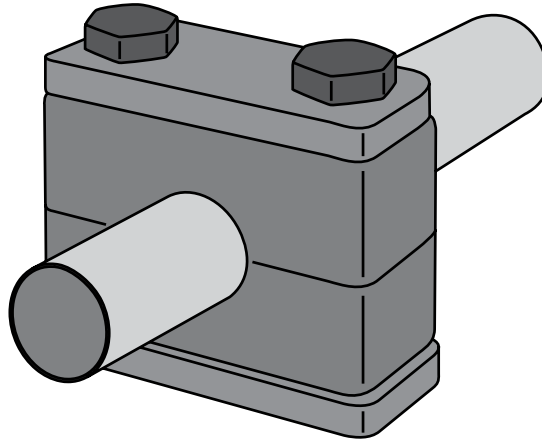
It is essential that all tube bends are secured as per the diagram, before and after the bend.

This significantly helps to reduce vibration within the system.

Part number explanation

BOOK INDEX

SECTION INDEX



3015-2-1-1012-PP-316

3015

2

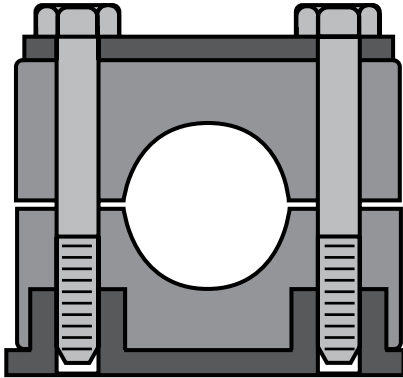
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1012

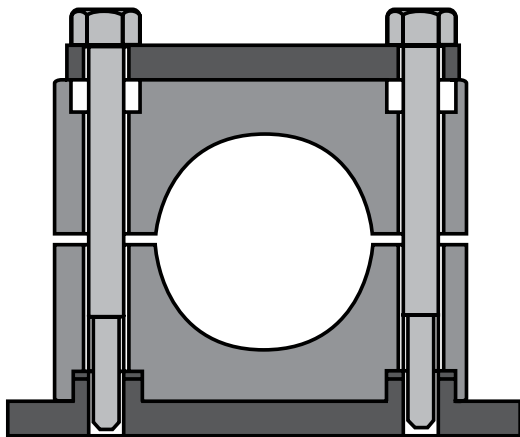
PP

316

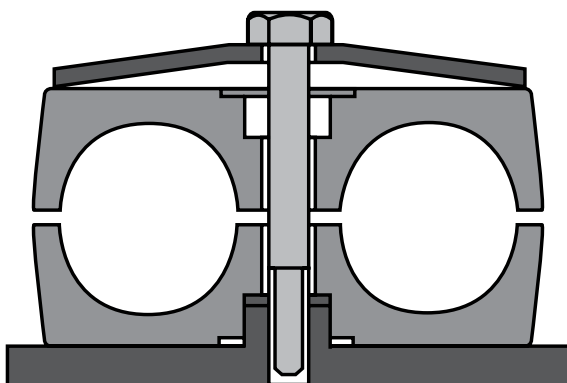
Clamp type prefix	DIN 3015 Part 1,2, or 3	Build combination	DIN group size and clamp jaw ID in mm	Clamp material code	Metallic parts material code
The technical specification for this clamp type is DIN 3015, so we use this as our part code prefix.	DIN 3015 has three parts... Part 1 – standard series Part 2 – heavy series Part 3 – double series Our example part code above specifies DIN 3015 – Part 2 – ie. heavy series	Various different build codes can be used to specify which components are used for an assembled clamp. See below for further information.	Whether standard, heavy or double series, the jaw pairs are organised in to groups. Our tables on the following pages explain which group size each jaw inside diameter falls into. In the example above 1012 represents group 1 and a mm OD 012 (or 12mm).	We can supply clamp jaws in the following materials... <ul style="list-style-type: none"> • PP (polypropylene) in green or black • PPS (polypropylene smooth inner) in green • PA (polyamide) in black • PAS (polyamide smooth inner) in black • AL (aluminium) • SA (Santoprene™) in black • SAS (Santoprene™ smooth inner) in black Other jaw materials and colours are available – please ask.	The metallic parts are available in... <ul style="list-style-type: none"> • -CS (carbon steel) • -304 (304 stainless) • -316 (316 stainless) Clamp assemblies supplied with carbon steel parts are supplied as follows... <ul style="list-style-type: none"> • Standard and double – weld plates are unplated and other parts white zinc plated. • Heavy series – all parts are unplated.

**DIN 3015 – Part 1 – Standard series**

- 6mm to 102mm
- DIN build groups 0 to 8
- All bolts and connecting threads M6
- Clamp depth always 30mm
- Group 0 only needs one bolt

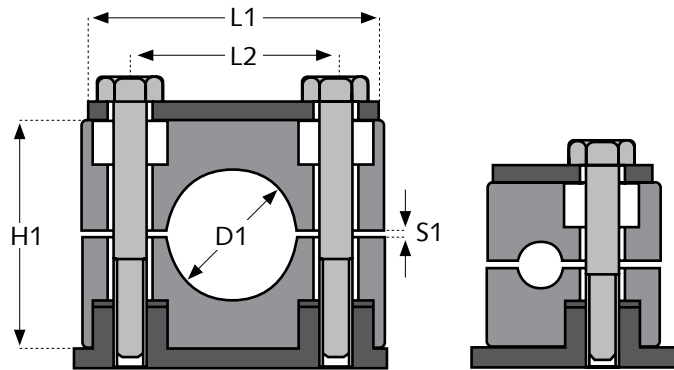
**DIN 3015 – Part 2 – Heavy series**

- 6mm to 406mm
- DIN build groups 1 to 10
- M6 up to M30 threads
- Clamp depth 30mm to 182mm

**DIN 3015 – Part 3 – Double series**

- 6mm to 42mm
- DIN build groups 1 to 5
- M6 and M8 threads
- Clamp depth always 30mm

- 6mm to 102mm
- DIN build groups 0 to 8
- All bolts and connecting threads M6
- Clamp depth always 30mm
- Group 0 only needs one bolt



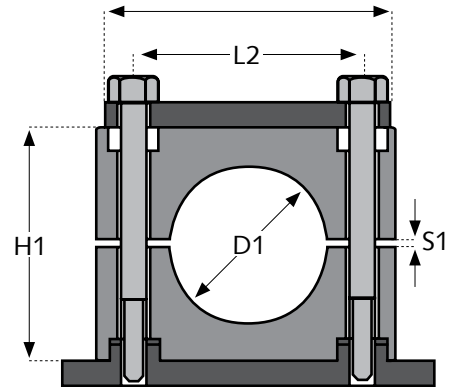
Group 1 to 8

Group 0

Tube OD (D1)	Group size	H1	L1	L2	S1	Jaws width
6	0	27	28	-	0.4	30
6.4						
8						
9.5						
10						
12						
6	1	27	37	20	0.4	30
6.4						
8						
9.5						
10						
12						
12.7	2	33	42	26	0.6	30
13.5						
14						
15						
16						
17.2						
18	3	36	50	33	0.6	30
19						
20						
21.3						
22						
25						
25.4						

Tube OD (D1)	Group size	H1	L1	L2	S1	Jaws width
26.9	4	42	59	40	0.6	30
28						
30						
32						
33.7	5	58	71	52	0.8	30
35						
38						
40						
42	6	66	86	66	0.8	30
44.5						
48.3						
50.8						
57.2	7	93	121	94	0.8	30
60.3						
63.5						
70						
73	8	118	147	120	0.8	30
76.1						
88.9						
102						

- 6mm to 406mm
- DIN build groups 1 to 10
- M10 up to M30 threads
- Clamp depth 30mm to 182mm

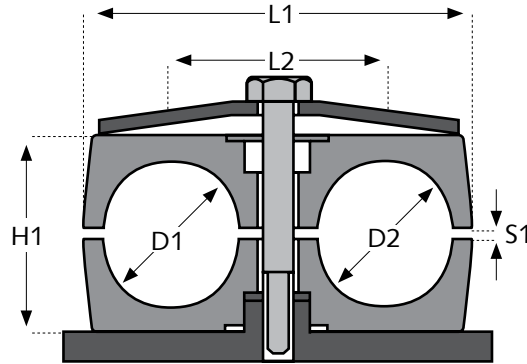


Group 1 to 10

Tube OD (D1)	Group size	H1	L1	L2	S1	Jaws width	Thread
6	1	32	55	33	0.6	30	M10
6.4							
8							
9.5							
10							
12							
12.7							
13.5							
14							
15							
16							
17.2							
18							
19	2	48	70	45	0.6	30	M10
20							
21.3							
22							
25							
26.9							
28							
30							
30	3	60	85	60	0.6	30	M10
32							
33.7							
35							
38							
40							
42							
38	4	90	115	90	2	45	M12
42							
44.5							
48.3							
50.8							
55							
57							
60.3							
63.5							
65							
70							

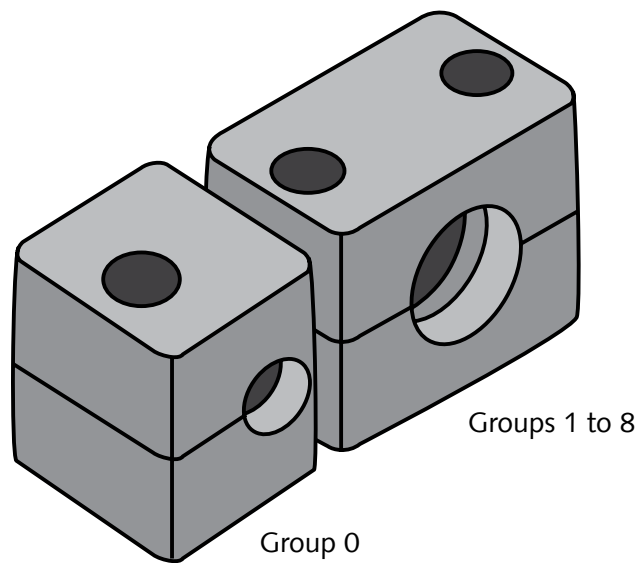
Tube OD (D1)	Group size	H1	L1	L2	S1	Jaws width	Thread
65	5	120	152	122	0.6	30	M16
70							
73							
75							
76.1							
80							
82.5							
88.9	6	170	206	168	0.6	30	M20
88.9							
100							
102							
108							
114							
127							
133	7	200	251	205	0.6	30	M24
133							
140							
152							
159							
165							
168							
168	8	270	336	265	0.6	30	M30
177.8							
193.7							
216							
219							
219							
273							
324	9	410	470	395	0.6	30	M30
356							
356							
406							
406	10	530	630	534	0.6	30	M30
406							

- 6mm to 42mm
- DIN build groups 1 to 5
- M6 and M8 threads
- Clamp depth always 30mm



Group 1 to 5

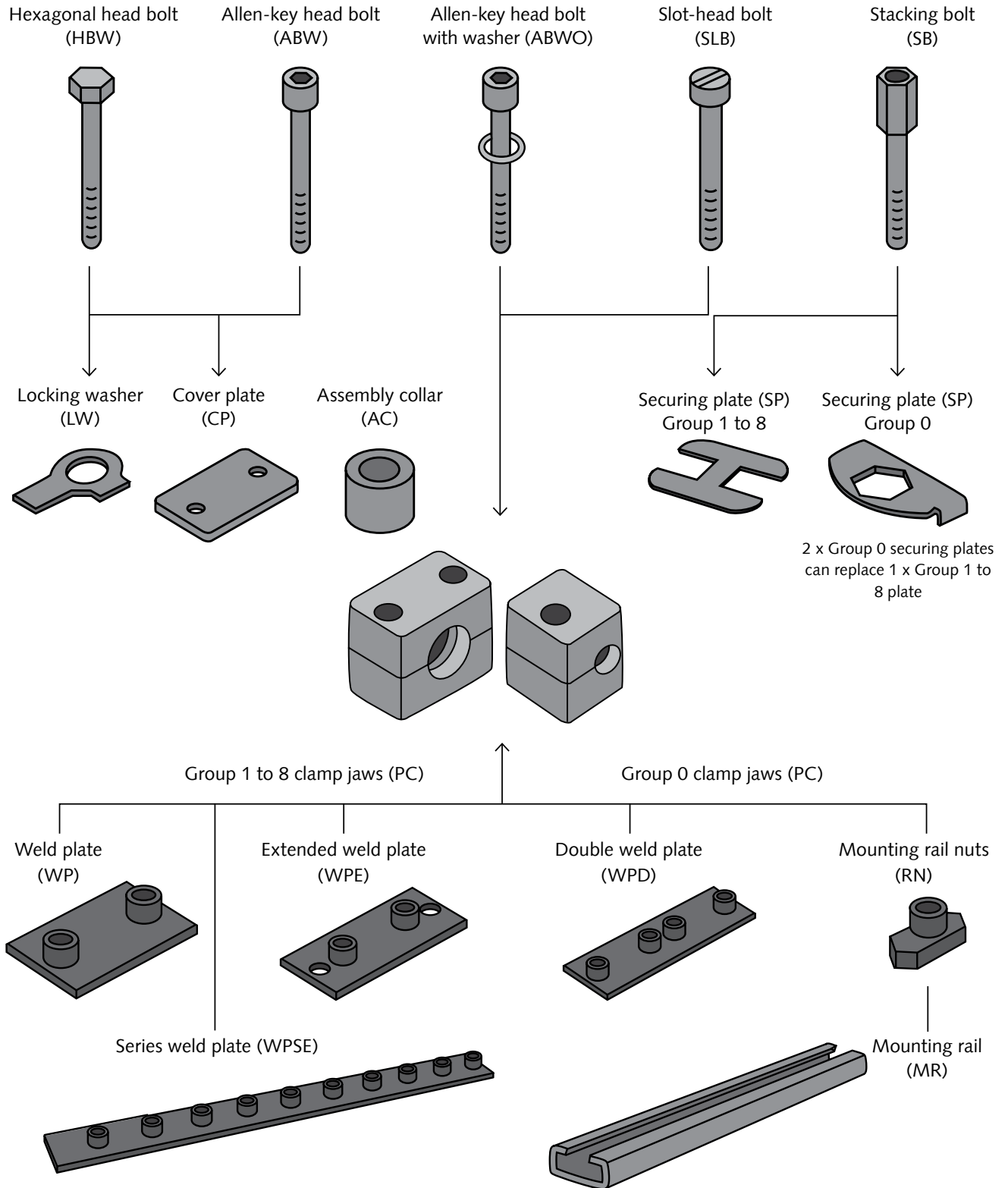
Tube OD (D1, D2)	Group size	H1	L1	L2	S1	Jaws width	Thread
6/6	1	27	36	20	0.6	30	M6
6.4 / 6.4							
8 / 8							
9.5 / 9.5							
10 / 10							
12 / 12	2	27	53	29	0.7	M8	
12.7 / 12.7							
13.5 / 13.5							
14 / 14							
15 / 15							
16 / 16	3	37	67	36	0.7	M8	
17.2 / 17.2							
18 / 18							
19 / 19							
20 / 20							
21.3 / 21.3	4	40	80	45	0.7	M8	
22 / 22							
25 / 25							
25.4 / 25.4							
26.9 / 26.9							
28 / 28	5	53	106	56	0.7	M8	
30 / 30							
32 / 32							
33.7 / 33.7							
35 / 35							
38 / 38	5	53	106	56	0.7	M8	
40 / 40							
42 / 42							



Clamps to DIN 3015 – Part 1

Standard Series

Standard series, components



Standard series, assembly codes

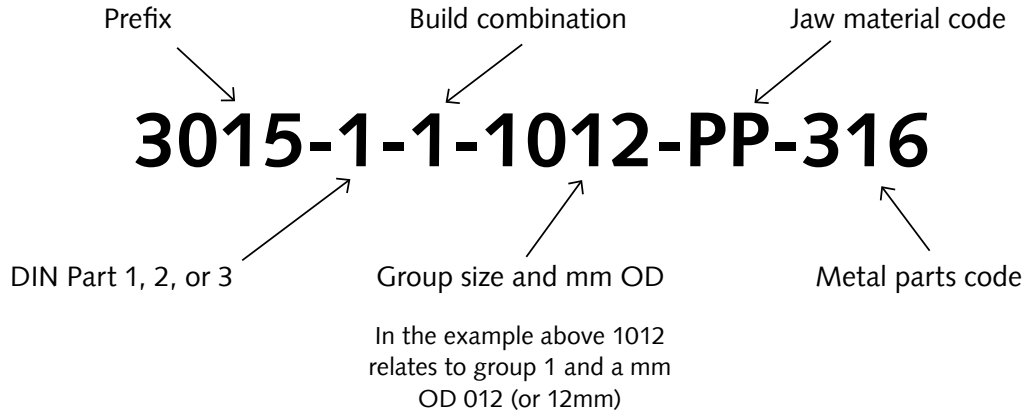
General information about the standard series...

- 6mm to 102mm
- DIN build groups 0 to 8
- All bolts and connecting threads M6
- Clamp depth always 30mm
- Group 0 only needs one bolt

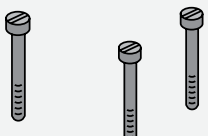
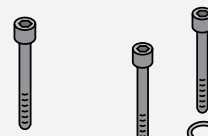
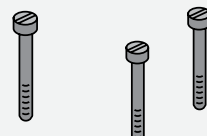
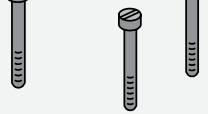
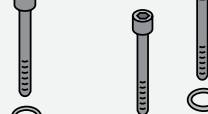
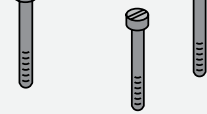
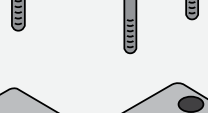
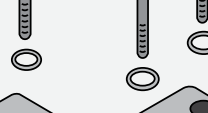
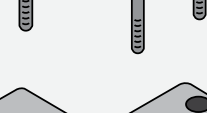
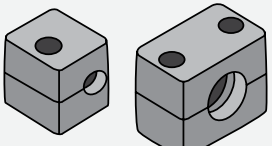
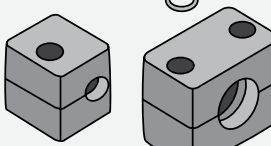
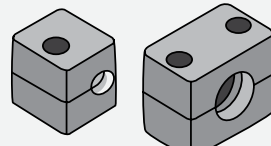
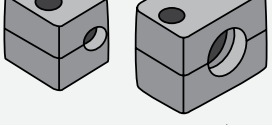
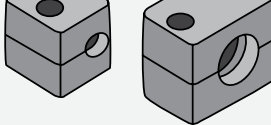
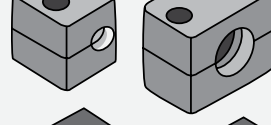



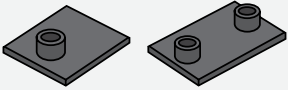
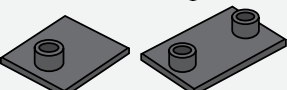
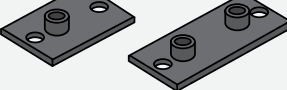



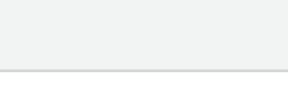
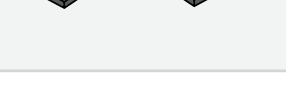
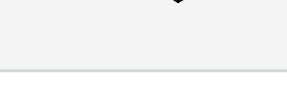
The following build codes are supplied unassembled.
Assembly before despatch is available for a small extra charge.

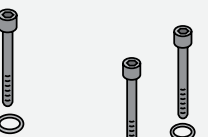
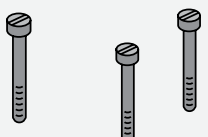
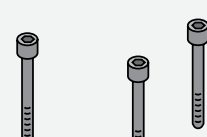
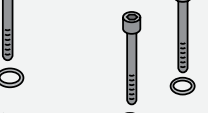
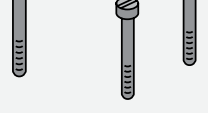
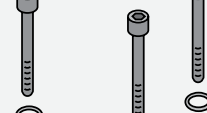
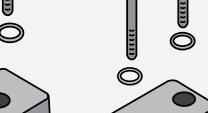
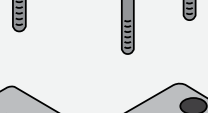
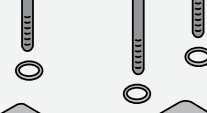
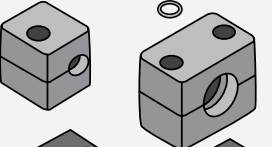
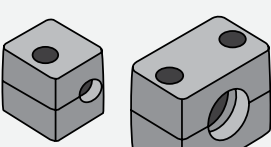
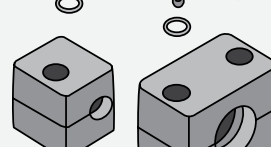
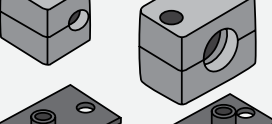
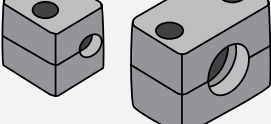
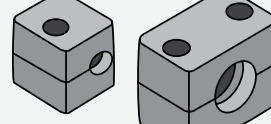
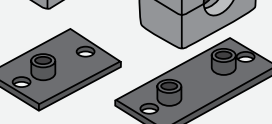

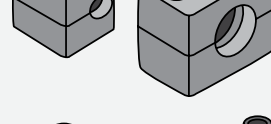
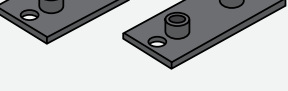
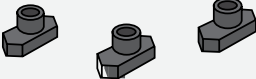



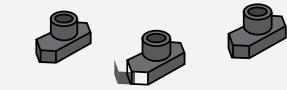
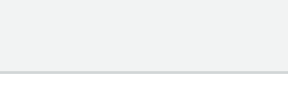
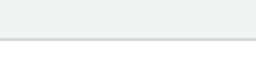
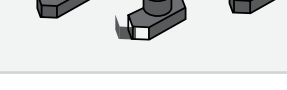


Part code example...



Standard series, assembly codes

Tube OD	Group size	Combination 1	Combination 2	Combination 4
		Jaws, weld plate and slot head bolts	Jaws, weld plate and Allen key head bolts	Jaws, extended weld plate and slot head bolts
6–12	0			
6–12	1			
12.7–18	2			
19–25	3			
26.9–30	4			
32–42	5			
44.5–50.8	6			
57.2–76.1	7			
88.9–102	8			

Tube OD	Group size	Combination 5	Combination 7	Combination 8
		Jaws, extended weld plate and Allen key head bolts	Jaws, rail nuts and slot head bolts	Jaws, rail nuts and Allen key head bolts
6–12	0			
6–12	1			
12.7–18	2			
19–25	3			
26.9–30	4			
32–42	5			
44.5–50.8	6			
57.2–76.1	7			
88.9–102	8			

Standard series, assembly codes – continued

General information about the standard series...

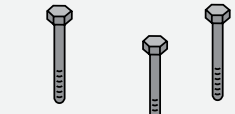
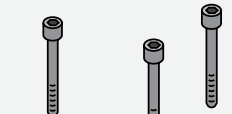
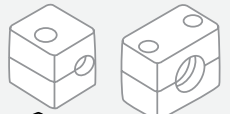
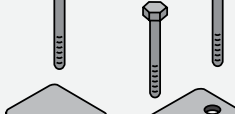
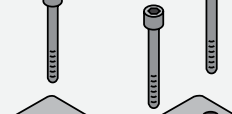
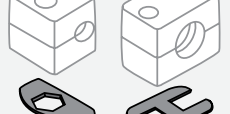
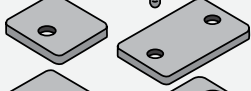
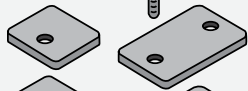
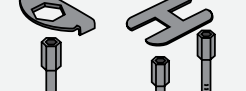
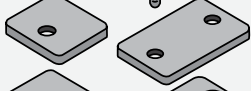
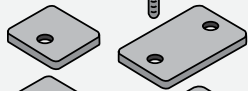
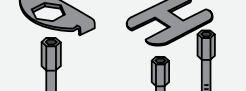
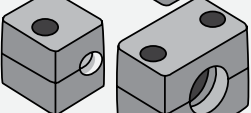
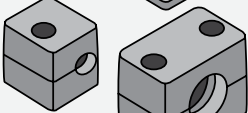
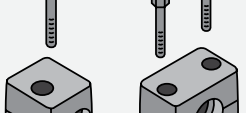
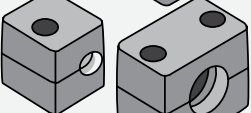
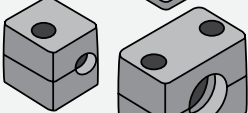
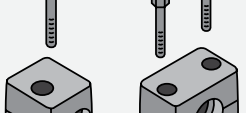
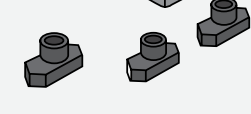
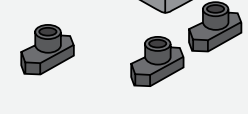
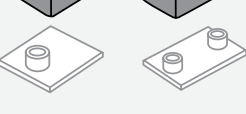
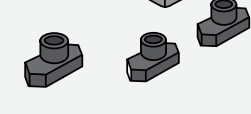
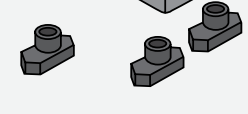
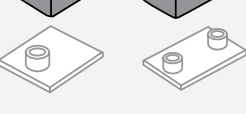
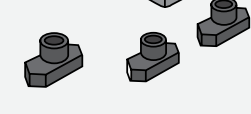
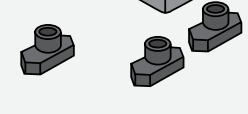
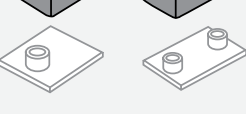
- 6mm to 102mm
- DIN build groups 0 to 8
- All bolts and connecting threads M6
- Clamp depth always 30mm
- Group 0 only needs one bolt

The following build codes are supplied unassembled.
 Assembly before despatch is available for a small extra charge.



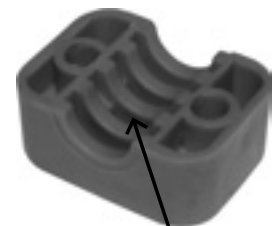
Tube OD	Group size	Combination 10	Combination 11	Combination 12	Combination 13
		Cover plate, weld plate and hex head bolts	Cover plate, weld plate and Allen key bolts	Cover plate, extended weld plate and hex head bolts	Cover plate, extended weld plate and Allen key bolts
6-12	0				
6-12	1				
12.7-18	2				
19-25	3				
26.9-30	4				
32-42	5				
44.5-50.8	6				
57.2-76.1	7				
88.9-102	8				

Standard series, assembly codes

Tube OD	Group size	Combination 14	Combination 15	Combination 17
		Cover plate, rail nuts and hex head bolts	Cover plate, rail nuts and Allen key bolts	Weld plate, stacking bolts and securing plates
6–12	0			
6–12	1			
12.7–18	2			
19–25	3			
26.9–30	4			
32–42	5			
44.5–50.8	6			
57.2–76.1	7			
88.9–102	8			

Standard series – clamp jaws

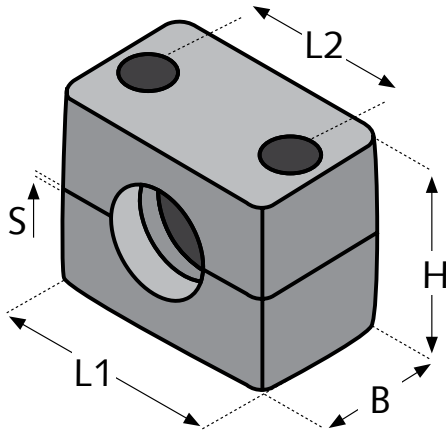
OD of tube or hose		To suit nominal bore size	Group size	L1	L2	H	Jaw gap (mm)	B	Part code						
in mm	in inches														
6			0	28	9.5	27	0.4	30	PC0-6-PP						
6.4	1/4"								PC0-6.4-PP						
8	5/16"								PC0-8-PP						
9.5	3/8"								PC0-9.5-PP						
10		1/8"							PC0-10-PP						
12									PC0-12-PP						
6			1	37	20	27	0.4	30	PC1-6-PP						
6.4	1/4"								PC1-6.4-PP						
8	5/16"								PC1-8-PP						
9.5	3/8"								PC1-9.5-PP						
10		1/8"							PC1-10-PP						
12									PC1-12-PP						
12.7	1/2"		2	42	26	33	0.6	30	PC2-12.7-PP						
13.5		1/4"							PC2-13.5-PP						
14									PC2-14-PP						
15									PC2-15-PP						
16	5/8"								PC2-16-PP						
17.2		3/8"							PC2-17.2-PP						
18			3	50	33	36	0.6	30	PC3-18-PP						
19	3/4"								PC3-19-PP						
20									PC3-20-PP						
21.3		1/2"							PC3-21.3-PP						
22	7/8"								PC3-22-PP						
25									PC3-25-PP						
25.4	1"		4	59	40	42	0.8	30	PC3-25.4-PP						
26.9		3/4"							PC4-26.9-PP						
28									PC4-28-PP						
30									PC4-30-PP						
32	1 1/4"								PC5-32-PP						
33.7		1"							5	71	52	58	0.8	30	PC5-33.7-PP
35			PC5-35-PP												
38	1 1/2"		PC5-38-PP												
40			PC5-40-PP												
42		1 1/4"	PC5-42-PP												
44.5	1 3/4"		6	86	66	66	0.8	30							PC6-44.5-PP
48.3		1 1/2"							PC6-48.3-PP						
50.8	2"								PC6-50.8-PP						
57.2	2 1/4"								7	121	94	93	0.8	30	PC7-57.2-PP
60.3		2"													PC7-60.3-PP
63.5	2 1/2"														PC7-63.5-PP
70	2 3/4"		PC7-70-PP												
73			PC7-73-PP												
76.1	3"	2 1/2"	8	147	120	118	0.8	30							PC7-76.1-PP
88.9	3 1/2"	3"							PC8-88.9-PP						
102	4"								PC8-102-PP						



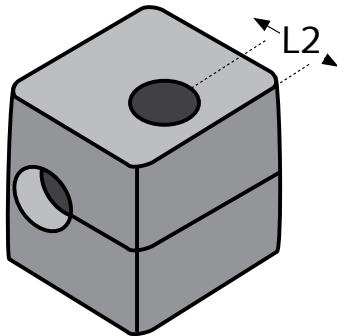
The clamps are constructed with ridges to provide enhanced rigidity and robustness.

You can find the clamp jaw size marked in between the ridges.

Standard series – clamp jaws



Group 1 to 8



Group 0

Jaw materials and codes

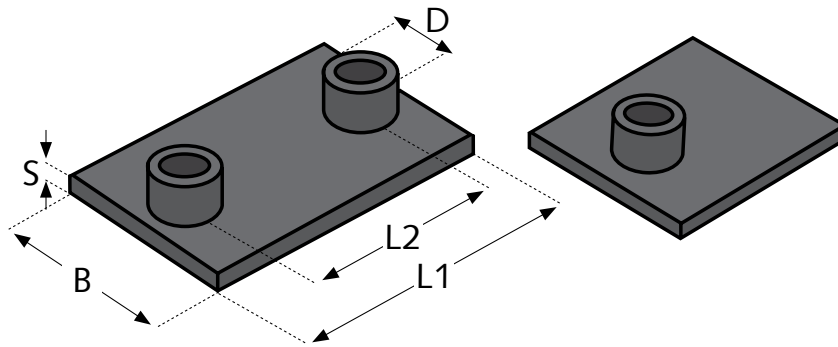
PP	Polypropylene green
PPB	Polypropylene black
PPS	Polypropylene smooth
PA	Polyamide black
PAS	Polyamide smooth
AL	Aluminium – only group sizes 1 to 6
SA	Santoprene
SAS	Santoprene smooth

All measurements in mm.

In the main table the ordering code uses PP for polypropylene. If another material code is required just replace using any of the above.

Standard series – weld plate and extended weld plate

Weld plate (WP)



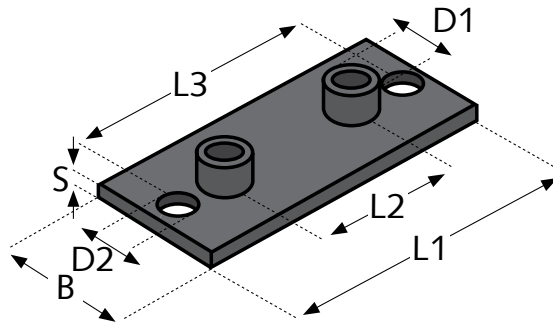
Group size	L1	L2	B	S	D	Part code
0	30	–	30	3	12	WP0
1	36	20				WP1
2	42	26				WP2
3	50	33				WP3
4	60	40				WP4
5	71	52				WP5
6	88	66		5		WP6
7	122	94				WP7
8	146	120	WP8			

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
Al	Aluminium
All measurements in mm	



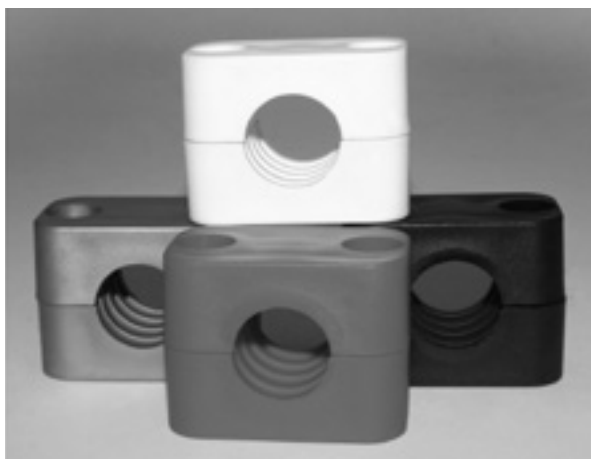
We can also supply the weld plates in aluminium – please ask.

Extended weld plate (WPE)



Group size	L1	L2	L3	B	S	D1	D2	Part code
0	58	–	44	30	3	12	7	WPE0
1	64	20	50					WPE1
2	70	26	56					WPE2
3	78	33	64					WPE3
4	87	40	73					WPE4
5	100	52	86					WPE5
6	115	66	100					WPE6
7	150	94	136		5	WPE7		
8	178	120	162	WPE8				

Material	
-CSP	Plated steel (standard)
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	



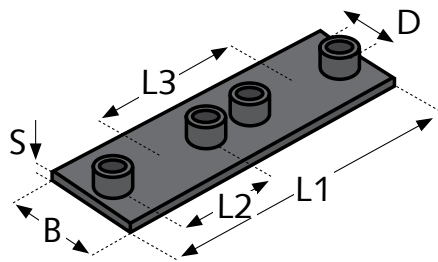
Is your equipment blue? What about red, silver or white? Why not specify the colour of the clamps to match?

We can supply clamp jaws in a wide range of different colours. Polypropylene jaws in popular sizes are in stock in white, red, silver and black.

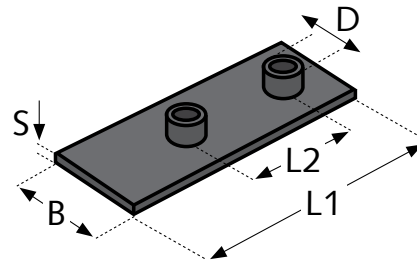
Just ask our team about bespoke clamp jaw colour matching.

Standard series – series weld plates and cover plates

Double weld plate (WPD)



Group 1 to 6



Group 0

Group size	L1	L2	L3	B	S	D	Part code
0	68	40		30	3	12	WPD0
1	78	20	35 (40*)				WPD1
2	95	26	43 (52*)				WPD2
3	118	33	52 (75*)				WPD3
4	130	40	60				WPD4
5	153	52	75				WPD5
6	188	66	90				WPD6

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

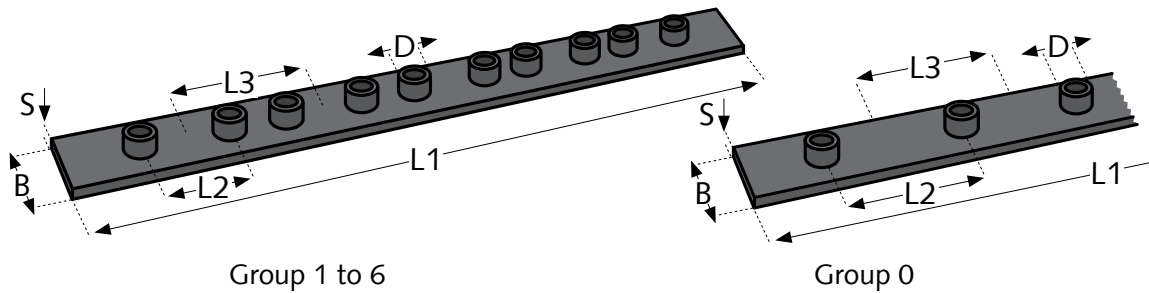
(* Pipe centres for aluminium jaws)



Series weld plates offer a variety of clamp mounting possibilities.

Series weld plate (WPSE)

Below are the series weld plates in standard dimensions. We can also supply them in other lengths. Please note that aluminium clamp jaws are slightly wider so require weld plates with wider spacing.

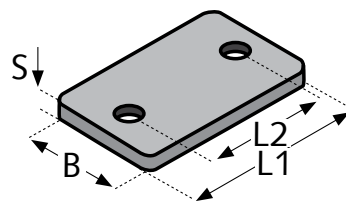


Group size	Number of clamps	L1	L2	L3	B	S	D	Part code
0	10	317	31	30	30	3	12	WPSE0
1		365	20	35 (40*)				WPSE1
2		442	26	43 (52*)				WPSE2
3		529	33	52 (75*)				WPSE3
4	5	309	40	60				WPSE4
5		387	52	75				WPSE5
6	6	455	66	90	WPSE6			

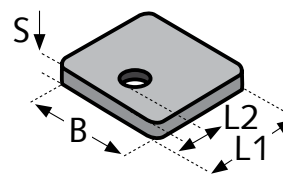
Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

(* Pipe centre distance for AL clamps)

Cover plate (CP)



Group 1 to 8



Group 0

Group size	L1	L2	B	S	D	Part code
0	28	9.5	30	3	7	CP0
1	36	20				CP1
2	40	26				CP2
3	48	33				CP3
4	57	40		5		CP4
5	70	52				CP5
6	86	66				CP6
7	118	94				CP7
8	144	120	CP8			

Material	
-CSP	Plated steel (standard)
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	
All carbon steel cover plates in the standard series are white plated	

Standard series – bolts

You almost always need two bolts per clamp. The only exception is for group 0 which only requires one bolt per assembly. When using Allen key head bolts without a cover plate, you must use a washer which we supply free of charge, unless the material is stainless steel, for which there is a small charge.

Slot head bolts to be used without a cover plate



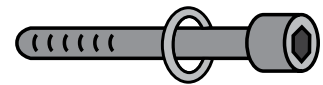
Group size	Part code
0	SLB1
1	
2	SLB2
3	SLB3
4	SLB4
5	SLB5
6	SLB6
7	SLB7
8	SLB8

Hex head bolts to be used with a cover plate



Group size	Part code
0	HBW1
1	
2	HBW2
3	HBW3
4	HBW4
5	HBW5
6	HBW6
7	HBW7
8	HBW8

Allen key head bolts to be used without a cover plate, but with washers



Group size	Part code
0	ABWO1
1	
2	ABWO2
3	ABWO3
4	ABWO4
5	ABWO5
6	ABWO6
7	ABWO7
8	ABWO8

Allen key head bolts to be used with a cover plate



Group size	Part code
0	ABW1
1	
2	ABW2
3	ABW3
4	ABW4
5	ABW5
6	ABW6
7	ABW7
8	ABW8

Stacking bolts, assemble with locking plate



Group size	Part code
0	SB1
1	
2	SB2
3	SB3
4	SB4
5	SB5
6	SB6
7	SB7
8	SB8

Material

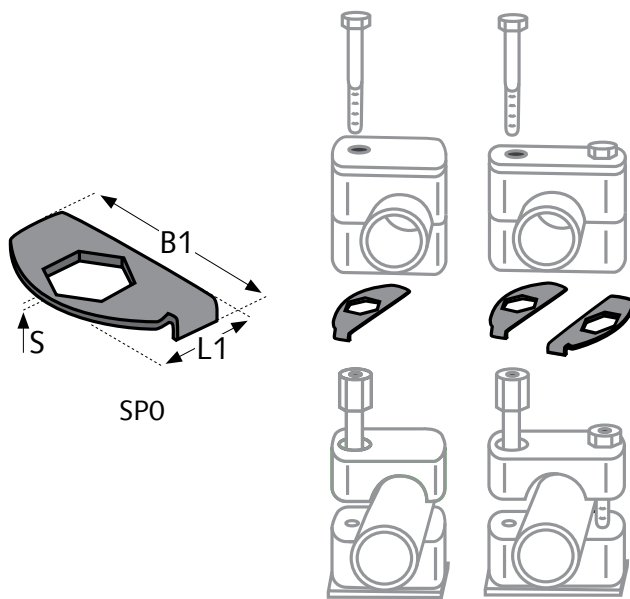
-CSP	Plated steel (standard)
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Standard series – stacking clamps

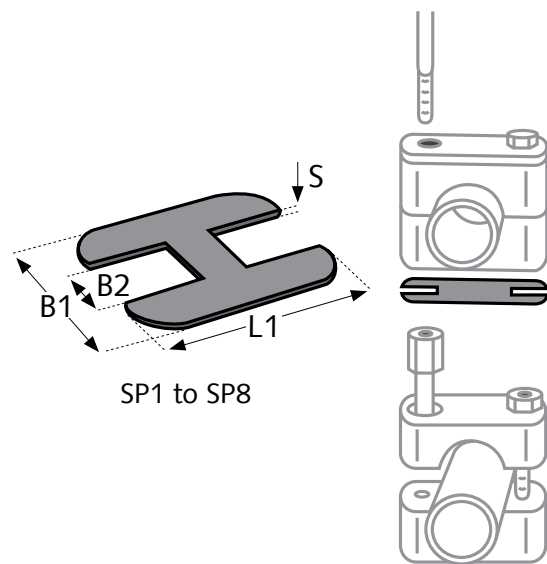
Securing plates (SP)

These securing plates must be used when creating a stacking bolt assembly. After creating the first level using stacking bolts (SB), the securing plate prevents the bolts from rotating when assembling the second level bolts. Note – when assembling group 1 to 8, you can use two group 0 securing plates if you choose.

Assembly example 1



Assembly example 2

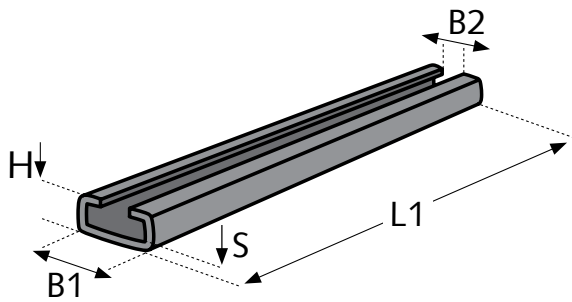


Group size	L1	B1	B2	S	Part code
0	16	32	11.2	1	SP0
1	33	28			SP1
2	39				SP2
3	47				SP3
4	56				SP4
5	69				SP5
6	85				SP6
7	117				SP7
8	143				SP8

Material	
-CSP	Plated steel (standard)
-316	316 stainless steel
All measurements in mm	

Mounting rail (MR)

In the standard series, the mounting rail is delivered generally in 2m lengths in three different stand-offs – 11mm, 14mm and 30mm.

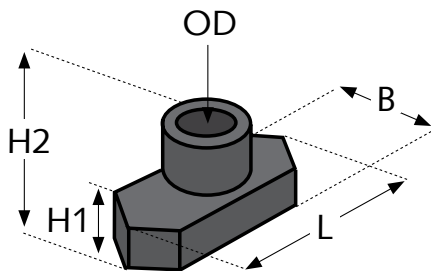


Group size	B1	B2	S	H	L1	Part code
0-8	28	11	2	11	2000	MR11
				14		MR14
				30		MR30

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Standard series – other components

Mounting rail nuts (RNM6)



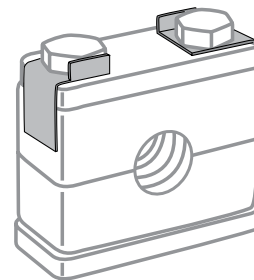
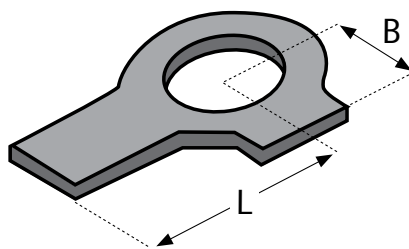
Rail nut made from cast steel with rubber



Group size	L	B	H1	H2	OD	G	Part code
0-8	25.5	10.2	13.5	5.5	12	M6	RNM6

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

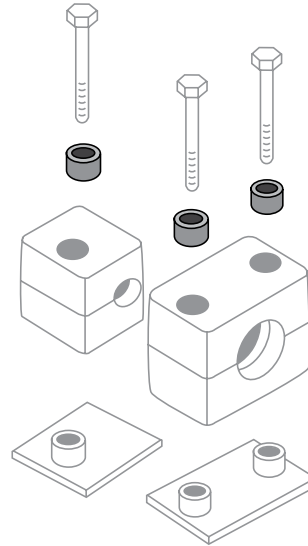
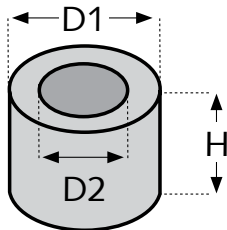
Locking washer (LW)



Group size	L	B	Part code
0-8	18	9	LW

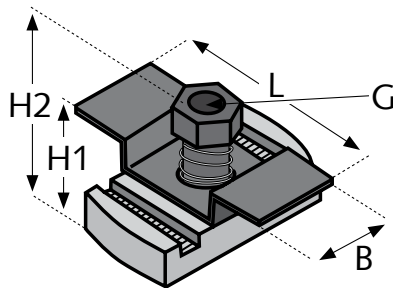
Material	
-CSP	Plated steel
-316	316 stainless steel
All measurements in mm	

Assembly collar (AC)



Group size	D1	D2	H	Part code
0-8	11.8	6.5	7.8	AC-CS
0-8			7.8	AC-CSP
0-8			8.6	AC-PP

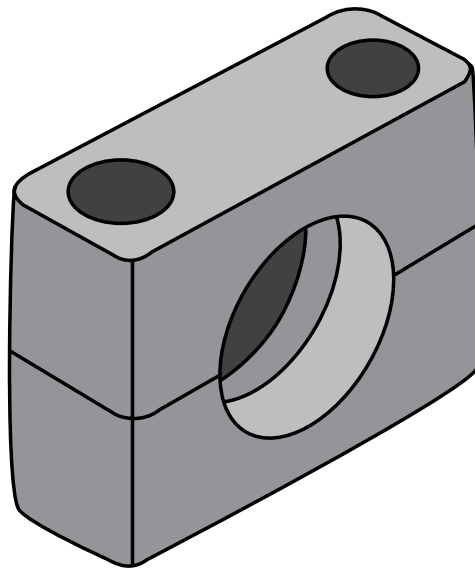
Clamp adapter (CA)



- UNISTRUT P1000, P1000T, P1000V, P1000VT, P1001
P2000, P2000T
P3003, P3003T, P3300V, P3300VT, P3301
P4000, P4000T
P5000, P5000T, P5001, P5500, P5500T, P5501
- HALFEN HM 41/41, HZA 41/22, HZM 41/41,
HZM 41/22, HL 41/41, HL 41/B2
- HILTI MQ-21, MQ-41, MQ-52, MQ-72, MQ-21U,
MQ-41U, MQ-72U, MQ-21D, MQ-41D,
MQ-52-72D

Group size	B	G	L	H1	H2	Part code
0-8	16	M6	40	13	20.5	CA1 to CA8

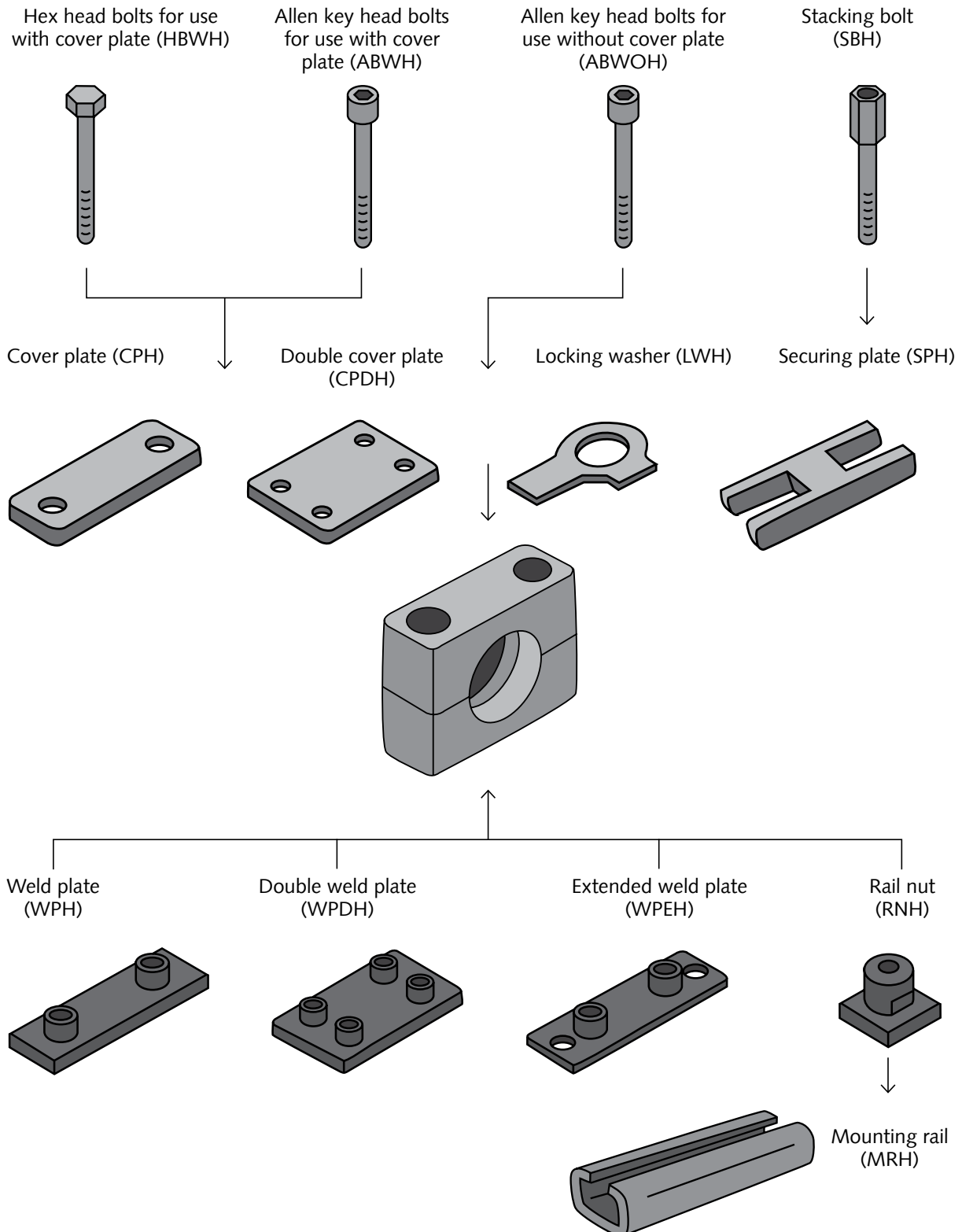
Material	
-CSP	Plated steel
-316	316 stainless steel
All measurements in mm	



Clamps to DIN 3015 – Part 2

Heavy Series

Heavy series – overview



Heavy series – assembly codes

- 6mm to 406mm
- DIN build groups 1 to 10
- M10 up to M30 threads
- Clamp depth 30mm to 182mm

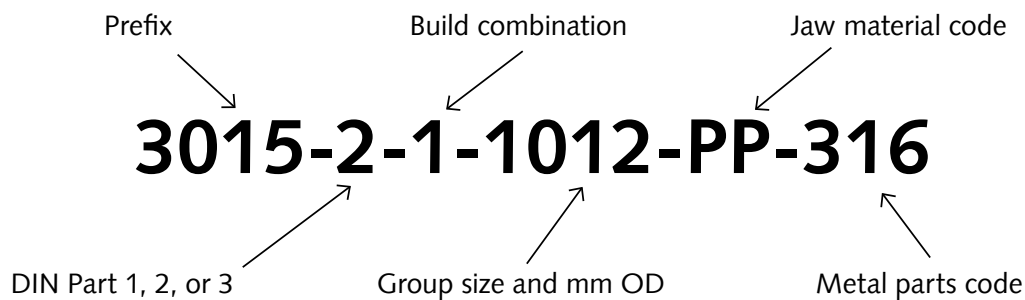
The tube or hose OD annotates the size of the jaws.

When ordering using assembly codes, please note that the components are supplied unassembled. We can supply the clamps assembled for a small additional charge.

If you cannot find the OD to match your application, please ask as we can manufacture jaws to suit any measurement.



Part code example...



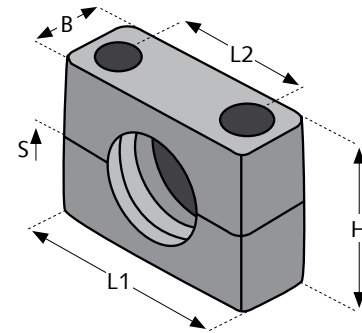
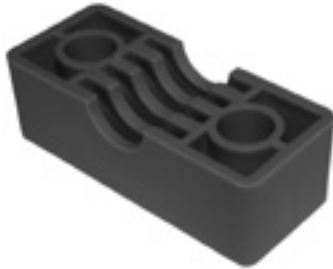
In the example above 1012 relates to group 1 and a mm OD 012 (or 12mm)

Heavy series – assembly codes

Tube OD (mm)	Group size	Combination 1	Combination 2	Combination 3	Combination 4
		Cover plate, weld plate, hex head bolts	Cover plate, weld plate, Allen key head bolts	Cover plate, rail nuts, hex head bolts	Cover plate, rail nuts, Allen key head bolts
6-18	1			Only up to group 4	
19-30	2				
30-42	3				
38-70	4				
65-88.9	5				
88.9-133	6				
133-168	7				
169-219	8				
219-324	9				
356-406	10				

Tube OD (mm)	Group size	Combination 5	Combination 7
		Double cover plate and weld plate, hex head bolts	Stacking bolts and securing plate
6-18	1		
19-30	2		
30-42	3		
38-70	4		
65-88.9	5		
88.9-133	6		
133-168	7		
169-219	8		
219-324	9		
356-406	10		

Heavy series – jaws



OD of tube or hose		To suit nominal bore size	Group size	L1		L2	H	Jaw gap (mm)	B	Part code
in mm	in inches			PP/PA	Al					
6			1	55	56	33	32	0.6	30.5	PCH1-6-PP
6.4	1/4"									PCH1-6.4-PP
8	5/16"									PCH1-8-PP
9.5	3/8"									PCH1-9.5-PP
10		1/8"								PCH1-10-PP
12										PCH1-12-PP
12.7	1/2"									PCH1-12.7-PP
13.5		1/4"								PCH1-13.5-PP
14										PCH1-14-PP
15										PCH1-15-PP
16	5/8"									PCH1-16-PP
17.2		3/8"								PCH1-17.2-PP
18										PCH1-18-PP
19	3/4"									PCH2-19-PP
20			PCH2-20-PP							
21.3		1/2"	PCH2-21.3-PP							
22	7/8"		PCH2-22-PP							
25			PCH2-25-PP							
25.4	1"		PCH2-25.4-PP							
26.9		3/4"	PCH2-26.9-PP							
28			PCH2-28-PP							
30			PCH2-30-PP							
30			PCH3-30-PP							
32	1 1/4"		PCH3-32-PP							
33.7		1"	PCH3-33.7-PP							
35			PCH3-35-PP							
38	1 1/2"		PCH3-38-PP							
40			PCH3-40-PP							
42		1 1/4"	PCH3-42-PP							

Jaw materials and codes	
PP	Polypropylene green
PPB	Polypropylene black
PPS	Polypropylene smooth
PA	Polyamide black
PAS	Polyamide smooth
AL	Aluminium – only group sizes 1 to 6
SA	Santoprene
SAS	Santoprene smooth
All measurements in mm	
In the main table the ordering code uses PP for polypropylene. If another material code is required just replace using any of the above.	

Continues on the following page...

Heavy series – jaws

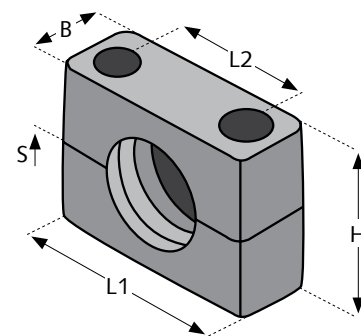
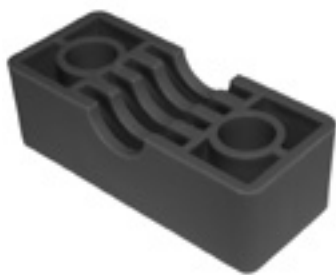
OD of tube or hose		To suit nominal bore size	Group size	L1		L2	H	Jaw gap (mm)	B	Part code							
in mm	in inches			PP/PA	Al												
38	1 1/2"		4	115	120	90	89	45	2	PCH4-38-PP							
40										PCH4-40-PP							
42		1 1/4"								PCH4-42-PP							
44.5	1 3/4"									PCH4-44.5-PP							
48.3		1 1/2"								PCH4-48.3-PP							
50.8	2"									PCH4-50.8-PP							
55										PCH4-55-PP							
57	2 1/4"									PCH4-57-PP							
60.3		2"								PCH4-60.3-PP							
63.5	2 1/2"									PCH4-63.5-PP							
65										PCH4-65-PP							
70	2 3/4"									PCH4-70-PP							
65										5	154	160	122	120	60	2	PCH5-65-PP
70																	PCH5-70-PP
73	2 7/8"		PCH5-73-PP														
75			PCH5-75-PP														
76.1	3"	2 1/2"	PCH5-76.1-PP														
80			PCH5-80-PP														
82.5	3 1/4"		PCH5-82.5-PP														
88.9	3 1/2"	3"	PCH5-88.9-PP														

Jaw materials and codes

PP	Polypropylene green
PPB	Polypropylene black
PPS	Polypropylene smooth
PA	Polyamide black
PAS	Polyamide smooth
AL	Aluminium – only group sizes 1 to 6
SA	Santoprene
SAS	Santoprene smooth

All measurements in mm

In the main table the ordering code uses PP for polypropylene. If another material code is required just replace using any of the above.



Heavy series – jaws

OD of tube or hose		To suit nominal bore size	Group size	L1		L2	H	Jaw gap (mm)	B	Part code					
in mm	in inches			PP/PA	Al										
88.9	3 1/2"	3"	6	206	208	168	168	2	80	PCH6-88.9-PP					
100										PCH6-100-PP					
102		3 1/2"								PCH6-102-PP					
108	4 1/4"									PCH6-108-PP					
110										PCH6-110-PP					
114		4"								PCH6-114-PP					
127	5"									PCH6-127-PP					
133	5 1/4"									PCH6-133-PP					
133	5 1/4"		7	251	255	205	200	91	PCH7-133-PP						
140		5"							PCH7-140-PP						
152	6"								PCH7-152-PP						
160	6 1/4"								PCH7-160-PP						
165	6 1/2"								PCH7-165-PP						
168		6"							3						PCH7-168-PP
168		6"													PCH8-168-PP
177.8	7"								8	336	326	265	270	120	PCH8-177.8-PP
193.7	7 5/8"		PCH8-193.7-PP												
216	8 1/2"		PCH8-216-PP												
219		8"	PCH8-219-PP												
219		8"	9	470	470	395	410	8	162	PCH9-219-PP					
273		10"								PCH9-273-PP					
324		12"								PCH9-324-PP					
356		14"	10	630	630	534	530	20	182	PCH10-356-PP					
406		16"								PCH10-406-PP					

Jaw materials and codes

PP	Polypropylene green
PPB	Polypropylene black
PPS	Polypropylene smooth
PA	Polyamide black
PAS	Polyamide smooth
AL	Aluminium – only group sizes 1 to 6
SA	Santoprene
SAS	Santoprene smooth

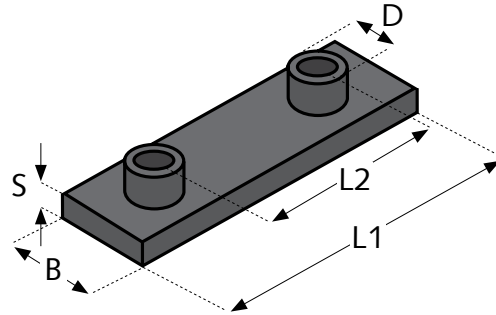
All measurements in mm

In the main table the ordering code uses PP for polypropylene. If another material code is required just replace using any of the above.

Heavy series – components

Weld plate (WPH)

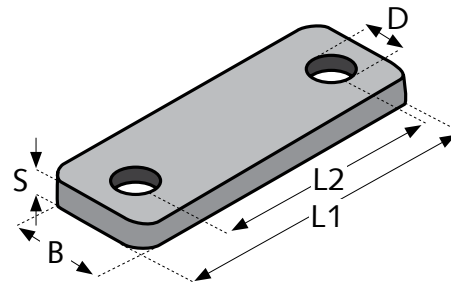
Group size	L1	L2	B	S	Thread	D	Part code
1	74	33	30	8	M10	18	WPH1
2	86	45					WPH2
3	100	60					WPH3
4	140	90	45	10	M12	20	WPH4
5	180	122	60		M16	24	WPH5
6	226	168	80	15	M20	30	WPH6
7	270	205	90		M24	35	WPH7
8	340	265	120	25	M30	45	WPH8
9	520	395	160				WPH9
10	680	534	180	30	50	WPH10	



Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Cover plate (CPH)

Group size	L1	L2	B	S	D	Part code
1	55	33	30	8	11	CPH1
2	70	45				CPH2
3	85	60				CPH3
4	115	90	45	10	14	CPH4
5	152	122	60			CPH5
6	206	168	80	15	22	CPH6
7	252	205	90			CPH7
8	320	265	120	25	35	CPH8
9	470	395	160			CPH9
10	630	534	180	30	CPH10	

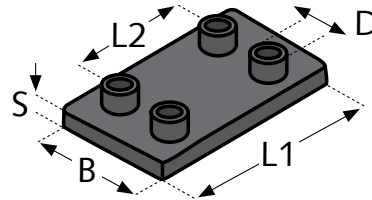


Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Heavy series – components

Double weld plate (WPDH)

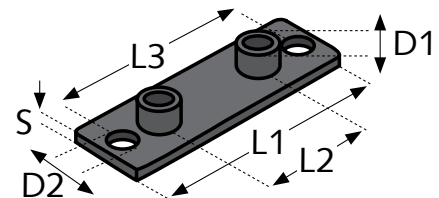
Group size	L1	L2	B	S	Thread	D	Part code
1	74	33	60	8	M10	18	WPDH1
2	86	45					WPDH2
3	100	60					WPDH3
4	140	90	90	10	M12	20	WPDH4
5	180	122	120		M16	24	WPDH5
6	226	168	160	15	M20	30	WPDH6
7	270	205	180		M24	35	WPDH7
8	340	265	240	25	M30	45	WPDH8
9	520	395	324	30		50	WPDH9
10	680	534	364			50	WPDH10



Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Extended weld plate (WPEH)

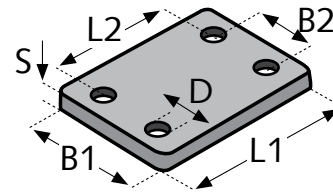
Group size	L1	L2	L3	B	S	Thread	D1	D2	Part code
1	113	33	85	30	8	M10	18	13	WPEH1
2	125	45	97						WPEH2
3	140	60	112						WPEH3
4	187	90	155	45	10	M12	20	16	WPEH4
5	238	122	198	60		M16	24	21	WPEH5
6	309	168	259	80	15	M20	30	26	WPEH6
7	370	205	310	90		M24	35	31	WPEH7
8	440	265	380	120	25	M30	45		WPEH8
9	590	395	530	160			30		50
10	750	534	690	180	50	WPEH10			



Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Double cover plate (CPDH)

Group size	L1	L2	B1	B2	S	D	Part code
1	55	33					CPDH1
2	70	45	60	30	8	11	CPDH2
3	85	60					CPDH3
4	115	90	90	46		14	CPDH4
5	152	122	120	61	10	19	CPDH5
6	206	168	160	81		22	CPDH6
7	251	205	180	91	15	26	CPDH7
8	320	265	240	120	25		CPDH8
9	470	395	324	166		35	CPDH9
10	630	534	364	186	30		CPDH10



Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Heavy series – components

You always need two bolts with heavy series clamps, there is no option where only one bolt is required.

Hex head bolts
(HBWH)



Group size	Part code
1	HBWH1
2	HBWH2
3	HBWH3
4	HBWH4
5	HBWH5
6	HBWH6
7	HBWH7
8	HBWH8
9	HBWH9
10	HBWH10

Allen key head bolts for use
with cover plate (ABWH)



Group size	Part code
1	ABWH1
2	ABWH2
3	ABWH3
4	ABWH4
5	ABWH5
6	ABWH6
7	ABWH7
8	ABWH8
9	ABWH9
10	ABWH10

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Allen key head bolts for
use without cover plate
(ABWOH)



Group size	Part code
1	ABWOH1
2	ABWOH2
3	ABWOH3
4	ABWOH4
5	ABWOH5
6	ABWOH6
7	ABWOH7
8	ABWOH8
9	ABWOH9
10	ABWOH10

Stacking bolt
(SBH)

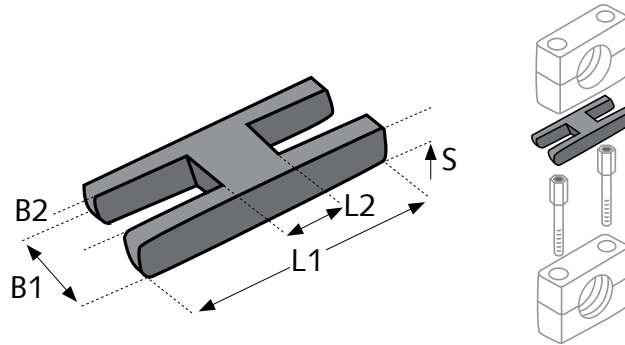


Group size	Part code
1	SBH1
2	SBH2
3	SBH3
4	SBH4
5	SBH5
6	SBH6
7	SBH7
8	SBH8
9	SBH9
10	SBH10

Heavy series – components

Securing plate (SPH)

Must be used when stacking assemblies to stop the lower-level bolts from rotating.

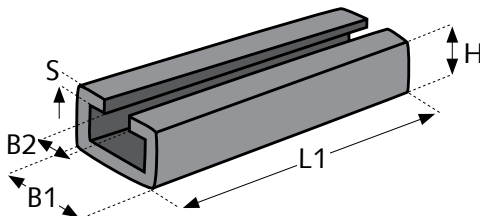


Group size	L1	L2	B1	B2	S	Part code
1	57	13				SPH1
2	70	26	30	15.2	8	SPH2
3	85	40				SPH3
4	116	68	45	17.2	10	SPH4
5	153	96	60	22		SPH5
6	206	130	80	28	15	SPH6
7	251	166	90	31		SPH7
8	317	205	120	49	25	SPH8
9	-	-	-	-	-	SPH9
10	-	-	-	-	-	SPH10

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Mounting rail (MRH)

Only to be used for clamp assemblies up to group 4

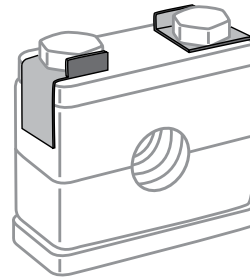
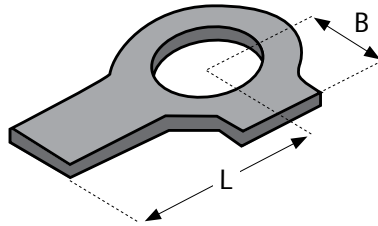


Group size	L1	B1	B2	H	S	Part code
1-4	2000	40	13	22	5	MRH22

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Heavy series – components

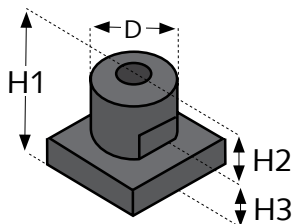
Locking washer (LWH)



Group size	L	B	Part code
1	22	13	LWH1
2			LWH2
3			LWH3
4	28	15	LWH4
5	32	18	LWH5
6	36	21	LWH6
7	42	25	LWH7
8	52	32	LWH8

Material	
-CSP	Plated steel (standard)
-316	316 stainless steel
All measurements in mm	

Rail nut (RNHM)



RNHM10 & RNHM12 for groups 1 to 4 heavy series



RNHM6 for groups 1 to 8 (Part 1 – standard series)

Rail nut for light series clamps using heavy series rail

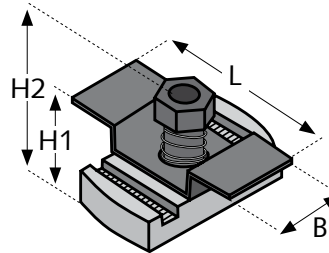
Group size	D	H1	H2	H3	Thread	Part code
1-3	17.8	21	7.6	7.4	M10	RNHM10
4	19.8	23	8.8	8.2	M12	RNHM12
0-8	12	21	7.6	7.4	M6	RNHM6

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-316	316 stainless steel
All measurements in mm	

Heavy series – components

Clamp adapters (CAH)

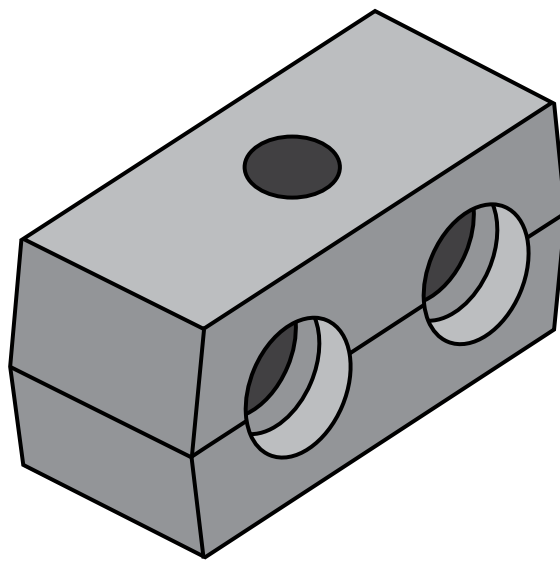
The adapters are designed for use with the following strut channels



- UNISTRUT P1000, P1000T, P1000V, P1000VT, P1001
P2000, P2000T
P3003, P3003T, P3300V, P3300VT, P3301
P4000, P4000T
P5000, P5000T, P5001, P5500, P5500T, P5501
- HALFEN HM 41/41, HZA 41/22, HZM 41/41,
HZM 41/22, HL 41/41, HL 41/B2
- HILTI MQ-21, MQ-41, MQ-52, MQ-72, MQ-21U,
MQ-41U, MQ-72U, MQ-21D, MQ-41D,
MQ-52-72D

Group	L	B	H1	H2	Thread	Part code
1	38	22	18.5	27.5	M10	CAHM10
2						
3						
4	45	25	17		M12	CAHM12

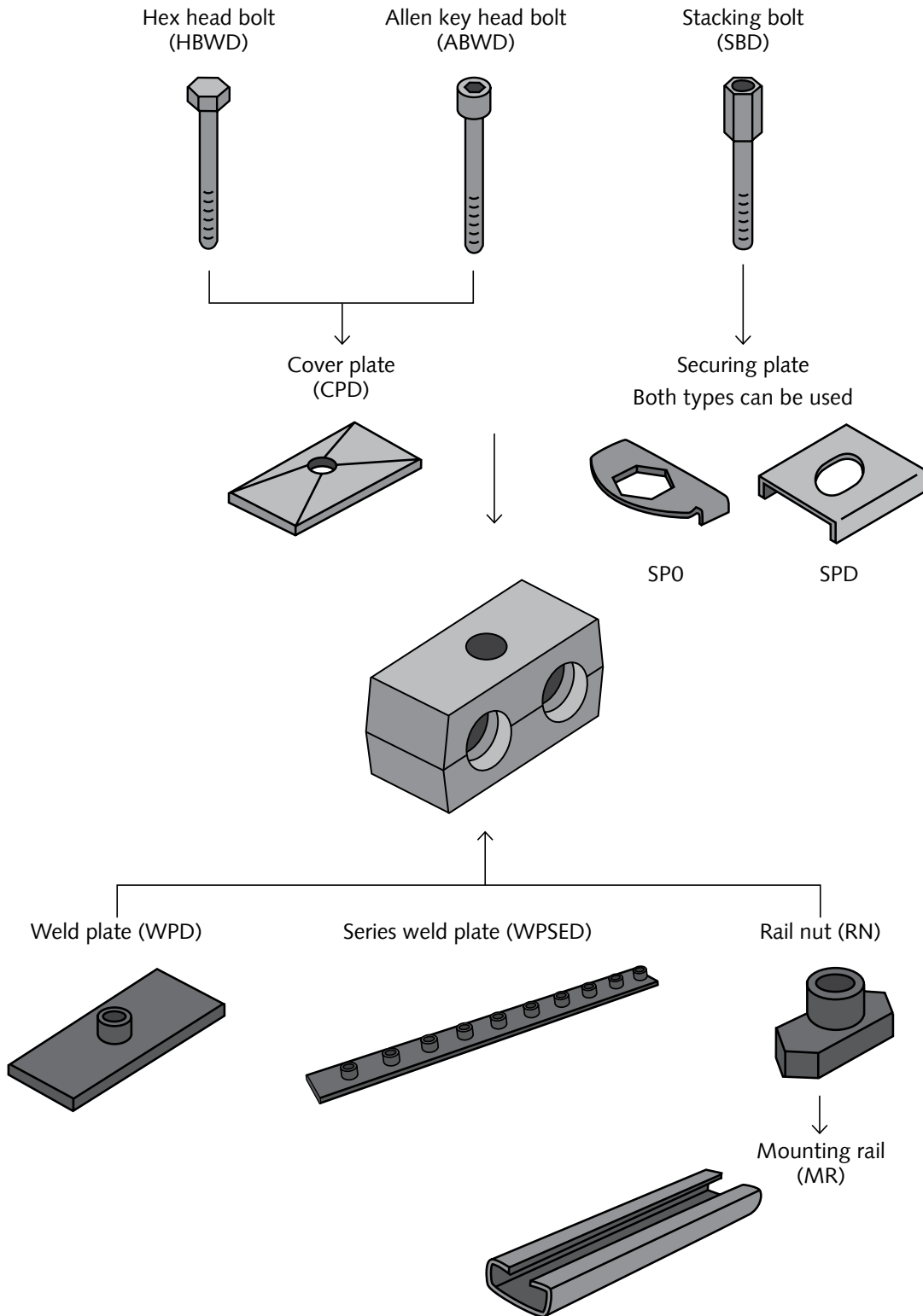
Material	
-CSP	Plated steel (standard)
-316	316 stainless steel
All measurements in mm	



Clamps to DIN 3015 – Part 3

Double Series

Double series – components



Assembly codes

- 6mm to 42mm
- DIN build groups 1 to 5
- M6 and M8 threads
- Clamp depth always 30mm

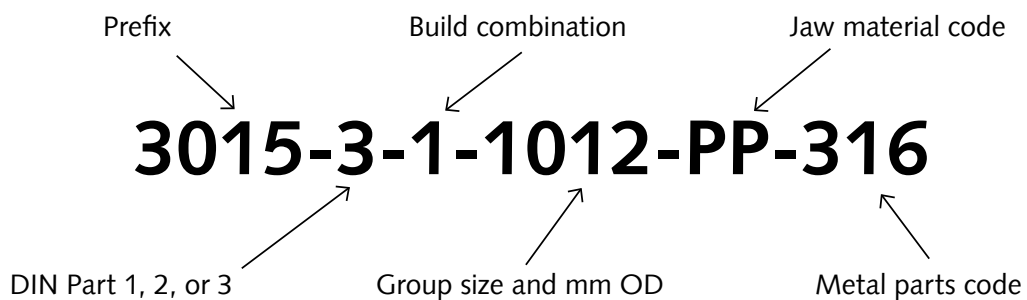
It is essential to use a separate clamp body for each tube outside diameter.

If you require jaws to suit two different tube ODs, just let us know and we can quote as a special.

Clamp assemblies are supplied unassembled, unless assembly is required for a small additional charge.





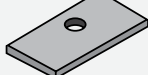
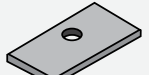
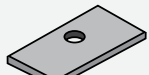
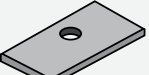
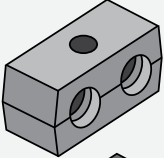
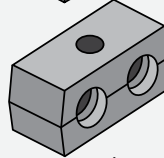
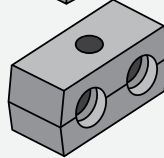
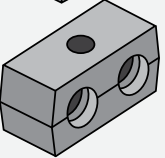
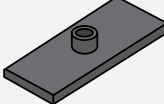
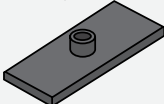


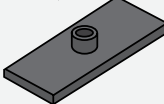
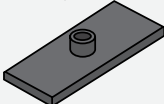




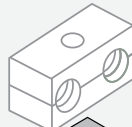
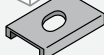

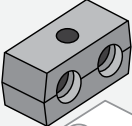

Part code example...



In the example above 1012 relates to group 1 and a mm OD 012 (or 12mm)

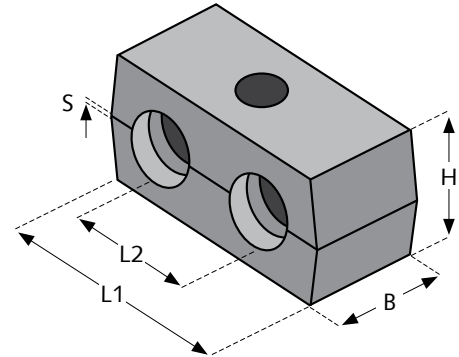
Heavy series – assembly type codes

Tube OD (mm)	Group size	Combination 1	Combination 2	Combination 3	Combination 4
		Hex bolt, weld plate	Allen key bolt, weld plate	Hex bolt, rail nut	Allen key bolt, rail nut
6-12	1				
12.7-18	2				
19-25	3				
26.9-30	4				
32-42	5				

Tube OD (mm)	Group size	Combination 5
		Stacking bolt, securing plate
6-12	1	
12.7-18	2	
19-25	3	
26.9-30	4	
32-42	5	

Jaws

These double clamps are made with the same OD both sides. If you require jaws with two different sizes, please ask, as they can be supplied as a special. Other jaw finishes such as smooth insides and different materials are also available on request.

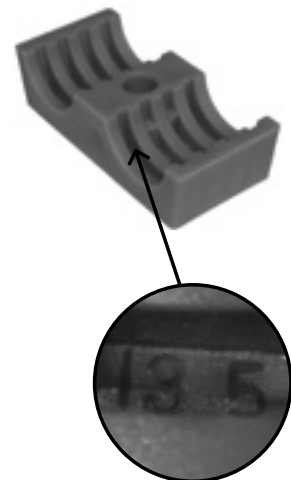


OD of tube or hose		To suit nominal bore size	Group size	L1	L2	H	Jaw gap (mm)	B	Part code
in mm	in inches								
6			1	36	20	27	0.6	30	PCD1-6-6-PP
6.4	1/4"								PCD1-6.4-6.4-PP
8	5/16"								PCD1-8-8-PP
9.5	3/8"	1/8"							PCD1-9.5-9.5-PP
10									PCD1-10-10-PP
12			2	53	29	27	0.6	30	PCD1-12-12-PP
12.7	1/2"								PCD2-12.7-12.7-PP
13.5		1/4"							PCD2-13.5-13.5-PP
14									PCD2-14-14-PP
15									PCD2-15-15-PP
16	5/8"								PCD2-16-16-PP
17.2		3/8"							PCD2-17.2-17.2-PP
18			3	67	36	37	0.7	30	PCD2-18-18-PP
19	3/4"								PCD3-19-19-PP
20									PCD3-20-20-PP
21.3		1/2"							PCD3-21.3-21.3-PP
22	7/8"								PCD3-22-22-PP
25			4	80	45	40	0.7	30	PCD3-25-25-PP
25.4	1"								PCD3-25.4-25.4-PP
26.9		3/4"							PCD4-26.9-26.9-PP
28									PCD4-28-28-PP
30			5	106	56	53	0.7	30	PCD4-30-30-PP
32	1 1/4"								PCD5-32-32-PP
33.7		1"							PCD5-33.7-33.7-PP
35									PCD5-35-35-PP
38	1 1/2"								PCD5-38-38-PP
40									PCD5-40-40-PP
42		1 1/4"							PCD5-42-42-PP

Jaw materials and codes	
PP	Polypropylene green
PPB	Polypropylene black
PPS	Polypropylene smooth
PA	Polyamide black
PAS	Polyamide smooth
SA	Santoprene
SAS	Santoprene smooth

All dimensions in mm.

In the main table the ordering code uses PP for polypropylene. If another material code is required just replace using any of the above.

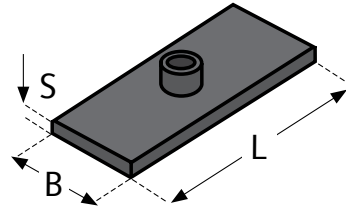


The clamps are constructed with ridges to provide enhanced rigidity and robustness.

You can find the clamp jaw size marked in between the ridges.

Individual components

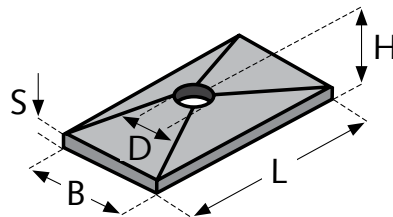
Weld plate (WPD)



Group size	L	B	S	Part code
1	37	30	3	WPD1
2	55			WPD2
3	70		5	WPD3
4	85			WPD4
5	110			WPD5

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Cover plate (CPD)



Group size	L	B	S	H	OD	Part code
1	34	30	3	7	7	CPD1
2	52					CPD2
3	64				9	CPD3
4	79					CPD4
5	95					CPD5

Material	
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Hex head bolt (HBWD)



Group size	Part code
1	HBWD1
2	HBWD2
3	HBWD3
4	HBWD4
5	HBWD5

Allen key bolt (ABWD)



Group size	Part code
1	ABWD1
2	ABWD2
3	ABWD3
4	ABWD4
5	ABWD5

Stacking bolt (SBD)

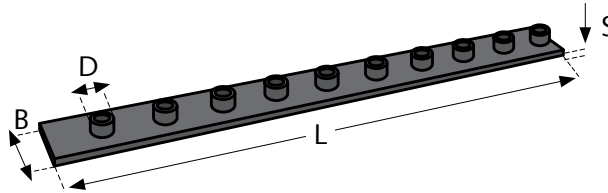


Group size	Part code
1	SBD1
2	SBD2
3	SBD3
4	SBD4
5	SBD5

Material	
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
The hex and Allen key headed bolts in the double series require a cover plate	
All measurements in mm	

Individual components

Series weld plate (WPSSED)

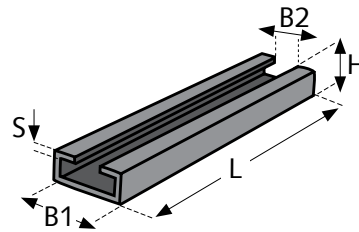


Group size	L	B	D	S	Part code
1	200	30	12	3	WPSSED1
2	295				WPSSED2
3	365		14	5	WPSSED3
4	445				WPSSED4
5	558				WPSSED5

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Mounting rail (MR)

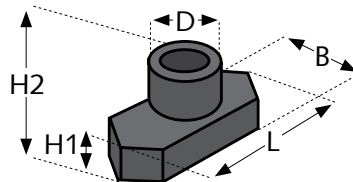
In the standard series, the mounting rail is delivered generally in 2m lengths in three different stand-offs – 11mm, 14mm and 30mm.



Group size	L	B1	B2	H	S	Part code
Group 1-5	2000	28	11	11	2	MR11
				14		MR14
				30		MR30

Material	
-CS	Unplated steel (standard)
-CSP	Plated steel
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Mounting rail nuts (RNM)



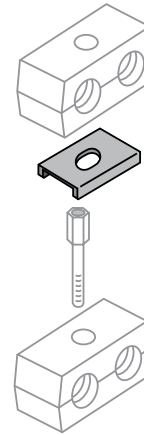
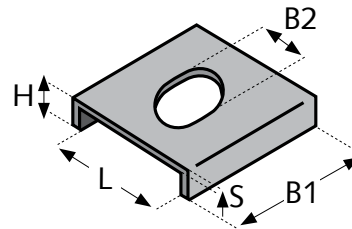
Group size	L	B	H1	H2	OD	Thread	Part code
1	25.5	10.2	13.5	5.5	12	M6	RNM6
2		10.4	13	5	14	M8	RNM8
3							
4							
5							

Material	
-CS	Plain steel – standard for RNM6
-CSP	Plated steel – standard for RNM8
-304	304 stainless steel
-316	316 stainless steel
All measurements in mm	

Individual components

Securing plate (SPD)

Must be used when stacking assemblies to stop the lower-level bolts from rotating.

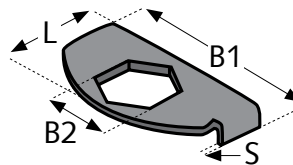


Group size	L	B1	B2	S	H	Part code
1	30	30	11	1	3	SPD1
2			13			SPD2
3						
4						
5						

Material	
-CSP	Plated steel (standard)
-316	316 stainless steel
All measurements in mm	

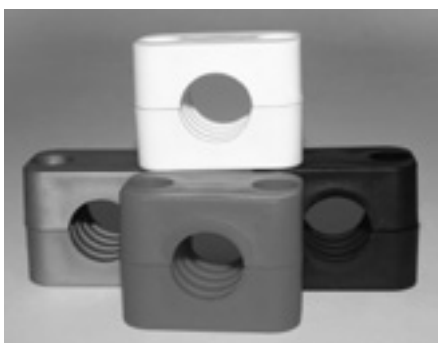
Securing plate (SP0)

Must be used when stacking assemblies to stop the lower-level bolts from rotating.



Group size	L	B1	B2	S	Part code
1	65	32	11.2	1	SP0

Material	
-CSP	Plated steel (standard)
-316	316 stainless steel
All measurements in mm	



Is your equipment blue? What about red, silver or white? Why not specify the colour of the clamps to match?

We can supply clamp jaws in a wide range of different colours. Polypropylene jaws in popular sizes are in stock in white, red, silver and black.

Just ask our team about bespoke clamp jaw colour matching.

Securing plate SPO suggested use

The SPO locking plate can be used for stacking assemblies in the entire Part 1 – Standard Series range but can also be used in the Part 3 – Double Series – Group 1 assemblies.

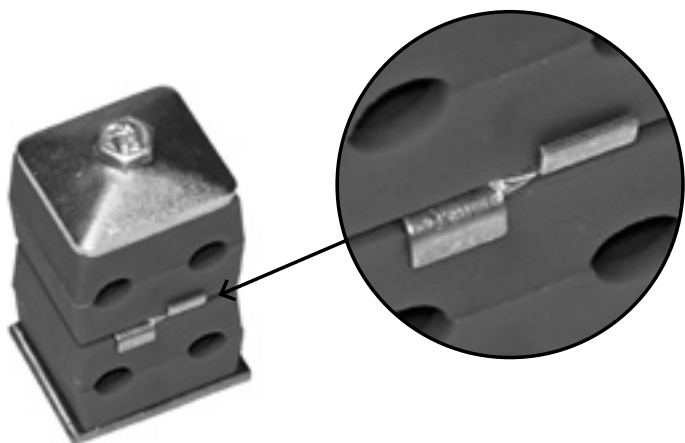
1. Assemble the first clamp jaws with a stacking bolt, eg. SBD1 and a weld plate.
2. Fully tighten the bolt and then use the securing plate SPO to prevent the bolt from turning.



3. Place a second SPO securing plate with the lugs facing up.



4. Then place the second-tier clamp jaws on top, followed by the cover plate and bolt and when you tighten it all up, the clamp bodies won't turn.



Standard Series

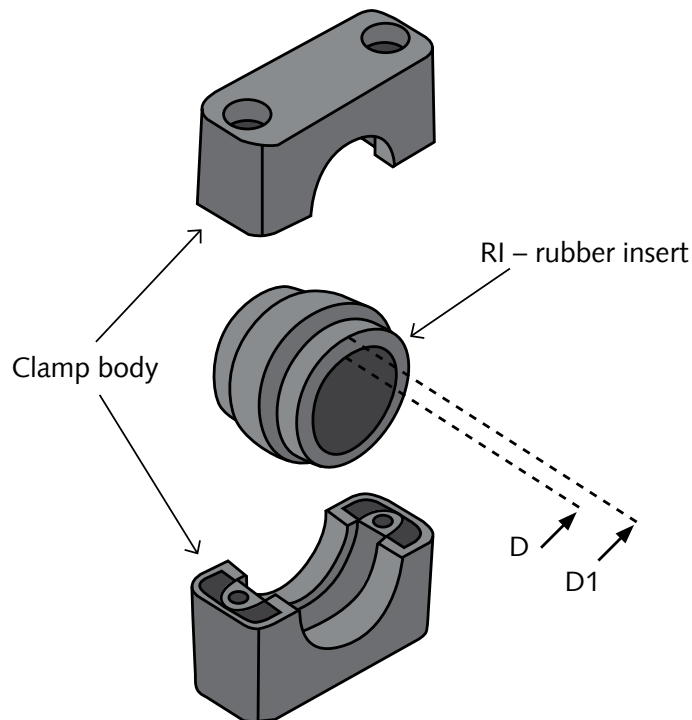
The rubber insert made from TPE (Thermoplastic Elastomer) is designed to reduce vibration in a system. So, if noise reduction or, say hose cover integrity safeguarding is an issue, consider using this type of clamping system.

Tube outside diameter range from 6mm to 32mm are covered by two group sizes, Group 4 and Group 6. As the clamp jaws need to be larger than the normal standard series clamps as they need to accommodate the rubber insert.

It is a different system to the normal Standard Series.

The clamp jaws are manufactured in black PP as standard – PA is available on request.

The standard series rubber insert RI-4-xx is identical to the heavy series rubber insert RIH-2-xx and the standard series rubber insert RI-6-xx is identical to the heavy series rubber insert RIH-3-xx.



Clamps to DIN 3015 with rubber inserts

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Standard Series

Tube OD (D)	Group size	D1	Rubber insert part code	PP jaws part code
6	4	25.4	RI4-6 or RIH2-6	PCRI4-PPR
8			RI4-8 or RIH2-8	
10			RI4-10 or RIH2-10	
12			RI4-12 or RIH2-12	
12.7			RI4-12.7 or RIH2-12.7	
14			RI4-14 or RIH2-14	
15			RI4-15 or RIH2-15	
16			RI4-16 or RIH2-16	
17.2			RI4-17.2 or RIH2-17.2	
18			RI4-18 or RIH2-18	
19			RI4-19 or RIH2-19	
20			6	
21.3	RI6-21.3 or RIH3-21.3			
22	RI6-22 or RIH3-22			
25	RI6-25 or RIH3-25			
26.9	RI6-26.9 or RIH3-26.9			
28	RI6-28 or RIH3-28			
30	RI6-30 or RIH3-30			
32	RI6-32 or RIH3-32			

TPE insert material performance

Hardness Shore A	73 ± 5°
Yield stress	8.3 N/mm ²
Max flex stress	24 N/mm ²
Operating temp. range	-40 to +125°C
The TPE rubber insert is black as standard. Other insert materials such as NBR are available on request.	

Jaw body materials

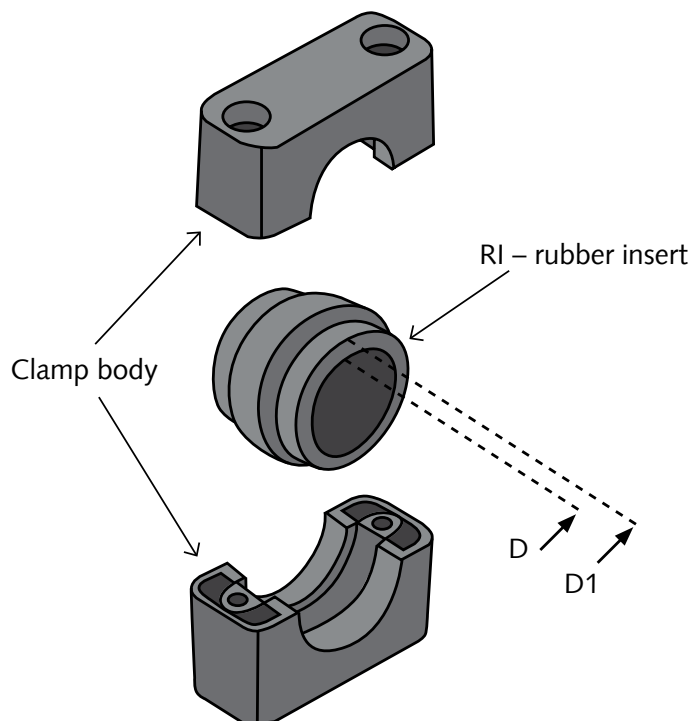
PP	Polypropylene, standard = black (PPR)
PA	Polyamide = black (PAR)
All measurements in mm	

Heavy Series

The rubber insert made from TPE (Thermoplastic Elastomer) is designed to reduce vibration in a system. So, if noise reduction or, say hose cover integrity safeguarding is an issue, consider using this type of clamping system.

The clamp jaws are manufactured in black PP as standard – PA is available on request.

The heavy series rubber insert RIH-2-xx is identical to the standard series rubber insert RI-4-xx and the heavy series rubber insert RIH-3-xx is identical to the standard series rubber insert RI-6-xx.



Clamps to DIN 3015 with rubber inserts

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Heavy Series

Tube OD (D)	Group size	D1	Rubber insert part code	PP jaws part code
6	2	25.4	RIH2-6 or RI4-6	PCHRI2-PPR
8			RIH2-8 or RI4-8	
10			RIH2-10 or RI4-10	
12			RIH2-12 or RI4-12	
12.7			RIH2-12.7 or RI4-12.7	
14			RIH2-14 or RI4-14	
15			RIH2-15 or RI4-15	
16			RIH2-16 or RI4-16	
17.2			RIH2-17.2 or RI4-17.2	
18			RIH2-18 or RI4-18	
19			RIH2-19 or RI4-19	
20	3	39	RIH3-20 or RI6-20	PCHRI3-PPR
21.3			RIH3-21.3 or RI6-21.3	
22			RIH3-22 or RI6-22	
25			RIH3-25 or RI6-25	
26.9			RIH3-26.9 or RI6-26.9	
28			RIH3-28 or RI6-28	
30			RIH3-30 or RI6-30	
32	RIH3-32 or RI6-32			
32	4	65	RIH4-32	PCHRI4-PPR
33.7			RIH4-33.7	
35			RIH4-35	
38.7			RIH4-38.7	
40			RIH4-40	
42			RIH4-42	
45.5			RIH4-45.5	
48			RIH4-48	
50			RIH4-50	
51			RIH4-51	
53.4	RIH4-53.4			
56.4	RIH4-56.4			
55	5	89	RIH5-55	PCHRI5-PPR
57			RIH5-57	
60			RIH5-60	
65			RIH5-65	
70			RIH5-70	
72			RIH5-72	
76	RIH5-76			
80	6	116	RIH6-80	PCHRI6-PPR
88.9			RIH6-88.9	

TPE insert material performance

Hardness Shore A	73 ± 5°
Yield stress	8.3 N/mm ²
Max flex stress	24 N/mm ²
Operating temp. range	-40 to +125°C

The TPE rubber insert is black as standard.
Other insert materials such as NBR are available on request.

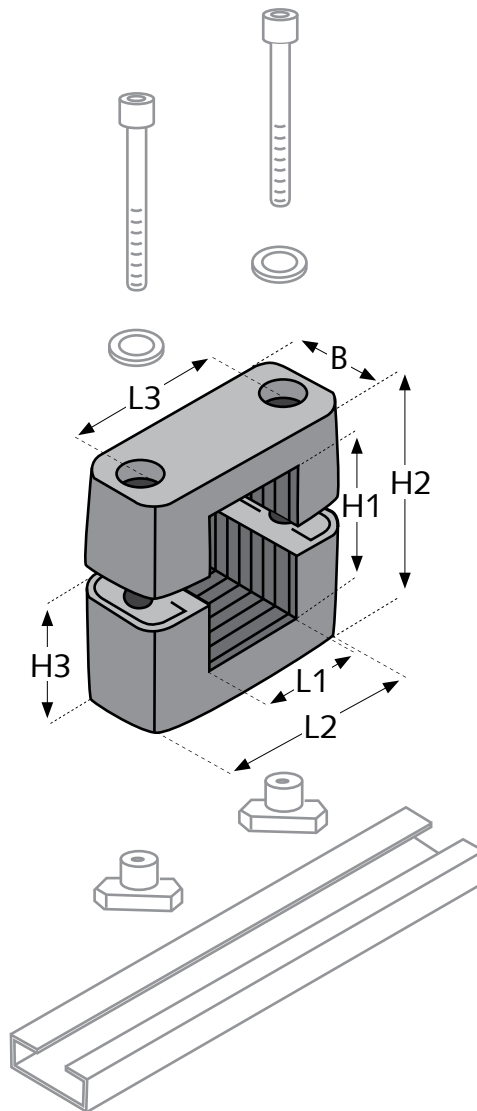
Jaw body materials

PP	Polypropylene, standard = black (PPR)
PA	Polyamide = black (PAR)
All measurements in mm	

Square clamps / Sensor clamps

For use with square profile proximity switches.

Any build combination can be created from standard series components. Below is an assembly made from Allen key head bolts, no cover plate, mounting rail and mounting rail nuts.



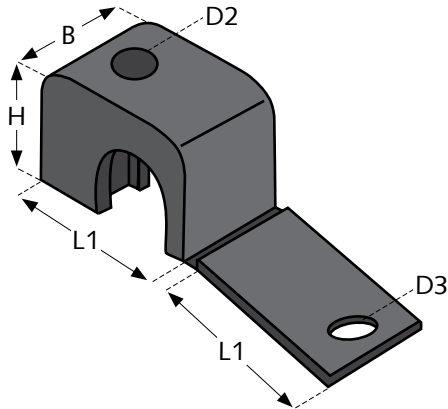
Group size	L1	L2	L3	B	H1	H2	H3	Part code
5	40	70	52	30	40	58	29	PCSQ5-40-PP

Light duty clamps

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Light duty single clamps - LD



Materials	
PP	Polypropylene, black
PA	Polyamide, yellow
In the table below, polypropylene (PP) clamps are featured. Other materials and finishes are available on request.	
All measurements in mm	

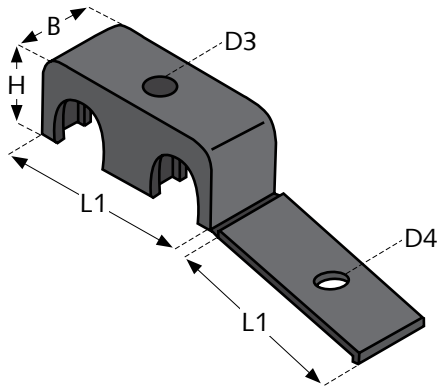
Tube OD		Nominal bore size	Group size	L1	B	H	OD2	OD3	Part Code
in mm	in inches								
3.2	1/8"		1	22	12	10.5	6.8	7	LD1-3.2-PP
6									LD1-6-PP
6.4									LD1-6.4-PP
8	1/4"								LD1-8-PP
9.5			2	27	16	15	6.8	7	LD2-9.5-PP
10	3/8"	1/8"							LD2-10-PP
11.1									LD2-11.1-PP
12									LD2-12-PP
12.7	1/2"		3	34	20	22.5	6.8	7	LD3-12.7-PP
13.5		1/4"							LD3-13.5-PP
14									LD3-14-PP
15									LD3-15-PP
16	5/8"								LD3-16-PP
17.2		3/8"							LD3-17.2-PP
18			4	42	30		6.8	7	LD3-18-PP
19	3/4"								LD4-19-PP
20									LD4-20-PP
21.3		1/2"							LD4-21.3-PP
25			LD4-25-PP						
25.4	1"		LD4-25.4-PP						

Light duty clamps

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Light duty double clamps – LDD



Materials

PP	Polypropylene, black
PA	Polyamide, yellow
In the table below, polypropylene (PP) clamps are featured. Other materials and finishes are available on request.	
All measurements in mm	
Also available for unequal ODs	

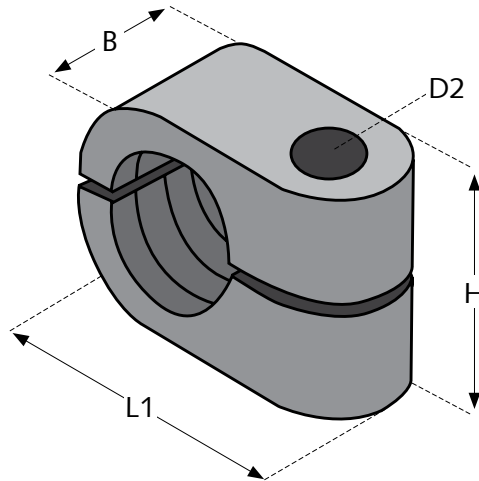
Tube OD		Nominal bore size	Group size	L1	B	H	OD2	OD3	Part code
in mm	in inches								
3.2	1/8"		1	31	12	10.5			LDD1-3.2/3.2-PP
6		LDD1-6/6-PP							
6.4		LDD1-6.4/6.4-PP							
8	1/4"	LDD1-8/8-PP							
9.5			2	39	16	14.5			LDD2-9.5/9.5-PP
10	3/8"								LDD2-10/10-PP
11.1		1/8"							LDD2-11.1/11.1-PP
12									LDD2-12/12-PP
12.7	1/2"		3	53	20	22.5	6.8	7	LDD3-12.7/12.7-PP
13.5		1/4"							LDD3-13.5/13.5-PP
14									LDD3-14/14-PP
15									LDD3-15/15-PP
16	5/8"		4	70	30				LDD3-16/16-PP
17.2		3/8"							LDD3-17.2/17.2-PP
18									LDD3-18/18-PP
19	3/4"								LDD4-19/19-PP
20									LDD4-20/20-PP
21.3		1/2"							LDD4-21.3/21.3-PP
25									LDD4-25/25-PP
25.4	1"								LDD4-25.4/25.4-PP

Light duty clamps

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Light duty single clamps - LN



Materials

PP Polypropylene, green

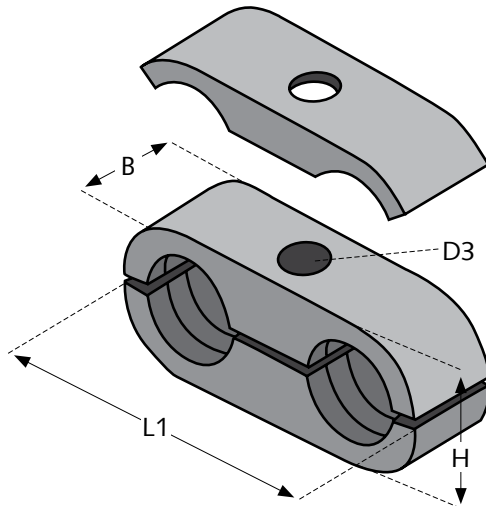
PA Polyamide, black

In the table below, polypropylene (PP) clamps are featured. Other materials and finishes are available on request.

All measurements in mm

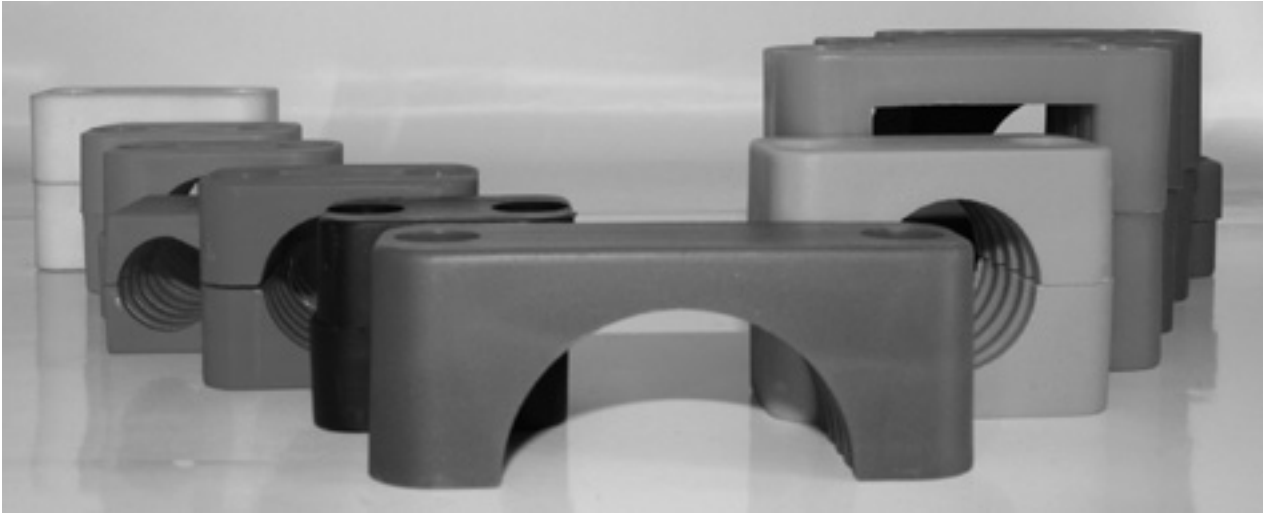
Tube OD		Nominal bore size	Group size	L1	B	H	OD2	Part code
in mm	in inches							
6			1	22		13.5		LN1-6-PP
6.4	1/4"							LN1-6.4-PP
8								LN1-8-PP
8			2	27		18.5		LN2-8-PP
9.5	3/8"							LN2-9.5-PP
10		1/8"						LN2-10-PP
12								LN2-12-PP
12.7	1/2"		3	33	14.5	23.5	6.8	LN2-12.7-PP
10		1/8"						LN3-10-PP
12								LN3-12-PP
12.7	1/2"							LN3-12.7-PP
13.5		1/4"						LN3-13.5-PP
14								LN3-14-PP
15			LN3-15-PP					
16	5/8"		4	40		30.5		LN3-16-PP
14								LN4-14-PP
15								LN4-15-PP
16	5/8"							LN4-16-PP
17.2		3/8"						LN4-17.2-PP
18								LN4-18-PP
19	3/4"							LN4-19-PP
20								LN4-20-PP
21.3		1/2"	LN4-21.3-PP					
22			LN4-22-PP					

Light duty double clamps (LND)



Materials	
PP	Polypropylene, green
PA	Polyamide, black
Plus cover plate	
In the table below, polypropylene (PP) clamps are featured. Other materials and finishes are available on request.	
All measurements in mm	
Unequal jaws also available.	
More colours available on request.	

Tube OD		Nominal bore size	Group size	L1	B	H	OD3	Cover plate	Part code
in mm	in inches								
6			1	32		13.5		DPL1	LND1-6/6-PP
6.4	1/4"								LND1-6.4/6.4-PP
8									LND1-8/8-PP
8			2	41		18.5		DPL2	LND2-8/8-PP
9.5	3/8"								LND2-9.5/9.5-PP
10		1/8"							LND2-10/10-PP
12									LND2-12/12-PP
12.7	1/2"		3	54	14.5	23.5	6.8	DPL3	LND2-12.7/12.7-PP
10		1/8"							LND3-10/10-PP
12									LND3-12/12-PP
12.7	1/2"								LND3-12.7/12.7-PP
13.5		1/4"							LND3-13.5/13.5-PP
14									LND3-14/14-PP
15									LND3-15/15-PP
16	5/8"		LND3-16/16-PP						
14			4	70		30.5		DPL4	LND4-14/14-PP
15									LND4-15/15-PP
16	5/8"								LND4-16/16-PP
17.2		3/8"							LND4-17.2/17.2-PP
18									LND4-18/18-PP
19	3/4"								LND4-19/19-PP
20									LND4-20/20-PP
21.3		1/2"							LND4-21.3/21.3-PP
22			LND4-22/22-PP						



Is your equipment blue? What about red, silver or white? Why not specify the colour of the clamps to match?

We can supply clamp jaws in a wide range of different colours.

Polypropylene jaws in popular sizes are in stock in white, red, silver and black.

Just ask our team about bespoke clamp jaw colour matching.

Special solutions to unique applications

If you have a requirement for a "special" application, just ask. We can offer a tailored solution to your particular application challenge. Please ask us about products for bespoke applications.

With this bespoke solution, we manufactured a unique profile hanger so that the customer could attach cabling to existing conduit.



Here, multiple service lines are organised into one tidy bundle.



We can supply various mounting plates in different lengths and thread types. If you require something bespoke to your application, just ask us and we can work through a solution with you.

Material properties of the clamp jaws

Properties	Test Standard	Materials				
		Many other materials available on request – please ask.				
		PP Polypropylene	PA Polyamide	AL Aluminium	TPE Thermoplastic Elastomer	
		Green (standard) Other colours available upon request	Black (standard) Other colours available upon request	Aluminium (grey)	Santoprene (black)	NBR (black)

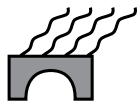


Mechanical properties

Density at 23°C	ISO 1183	DIN 53479	0.9 g/cm ³		1.12 g/cm ³		2.65 g/cm ³				
Tensile modulus	ISO 527	DIN 53457	1300 N/mm ²		1050 N/mm ²						
Yield stress	ISO 527	DIN 53455	24 N/mm ²		40 N/mm ²				8.3 N/mm ²	8.3 N/mm ²	
Impact strength	ISO 179-1•A	DIN 53453	23°C	No Break	23°C	No Break			23°C	113 N/mm ²	
			0°C	150 KJ/m ²							
			-20°C	110 KJ/m ²							
Shore – Hardness A								Selectable 87 A ± 5° 73 A ± 5° 65 A ± 5°		73 A ± 5°	
Impact strength	ISO 179-1•A	DIN 53453	23°C	9 KJ/m ²	23°C	30 KJ/m ²					
			0°C	6 KJ/m ²							
			-20°C	4.5 KJ/m ²							

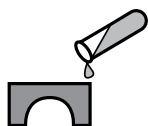
Material properties of the clamp jaws

Properties	Test Standard	Materials				
		Many other materials available on request – please ask.				
		PP Polypropylene	PA Polyamide	AL Aluminium	TPE Thermoplastic Elastomer	
		Green (standard) Other colours available upon request	Black (standard) Other colours available upon request	Aluminium (grey)	Santoprene (black)	NBR (black)



Thermal properties

Recommended temperature range	PP	PA	AL	TPE	NBR
	ca. -30°C to +90°C	ca. -40°C to +120°C	to 300°C	ca. -40°C to +125°C	ca. -30°C to +120°C



Chemical properties

Substance	PP	PA	AL	TPE	NBR
Alcohol	Resistant	Resistant	Resistant	Resistant	
Benzene	Conditionally resistant	Resistant	Resistant	Conditionally resistant	Resistant
Mineral Oil	Conditionally resistant	Resistant	Resistant	Conditionally resistant	Resistant
Weak alkalis	Conditionally resistant	Conditionally resistant	Conditionally resistant	Resistant	
Weak acids	Conditionally resistant	Conditionally resistant	Conditionally resistant	Resistant	

Tightening torques and breaking strains

The following data was determined using a cover plate, hex head bolts to DIN EN ISO 4014/4017 (DIN 931/933). The values were determined at room temperature with rolled tube and are based on average values.

Standard series – DIN 3015 – Part 1

Group size	Bolt DIN EN ISO 4014/4017 (DIN 931/33)	Polypropylene		Polyamide	
		Tightening torque (Nm)	Breaking strain (kN)	Tightening torque (Nm)	Breaking strain (kN)
0	M6	8	0.6	10	0.6
1			1.1		0.7
2			1.3		0.8
3			1.4		1.6
4			1.5		1.7
5			1.9		2.0
6			2.0		2.5

Standard series – DIN 3015 – Part 2

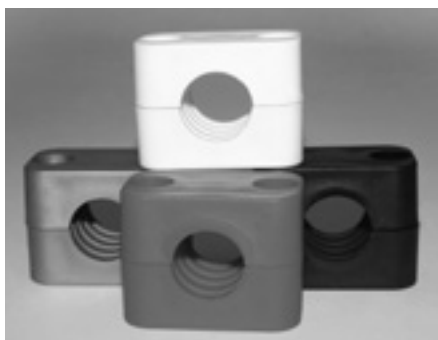
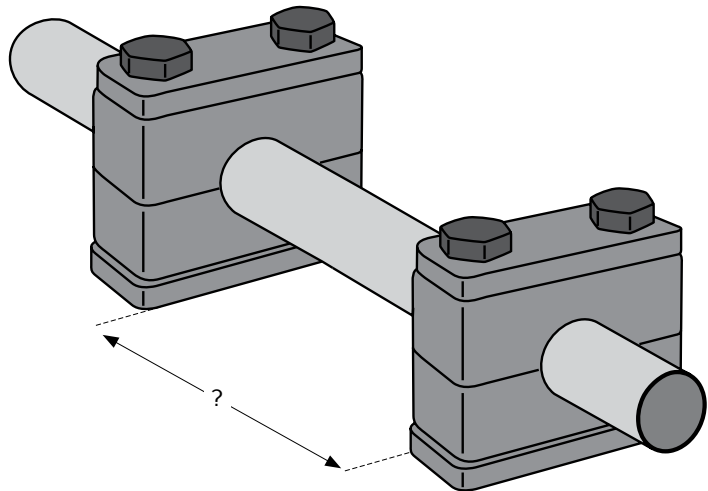
Group size	Bolt DIN EN ISO 4014/4017 (DIN 931/33)	Polypropylene		Polyamide	
		Tightening torque (Nm)	Breaking strain (kN)	Tightening torque (Nm)	Breaking strain (kN)
1	M10	12	1.6	20	4.2
2			2.9		4.5
3			3.3		5.1
4	M12	30	8.2	40	9.3
5	M16	45	11.0	55	15.8
6	M20	80	14.0	150	21.0
7	M24	110	28.0	200	32.0
8	M30	180	40.0	350	48.0
9			119.0		125.0
10			168.0		180.0

Standard series – DIN 3015 – Part 3

Group size	Bolt DIN EN ISO 4014/4017 (DIN 931/33)	Polypropylene		Polyamide	
		Tightening torque (Nm)	Breaking strain (kN)	Tightening torque (Nm)	Breaking strain (kN)
1	M6	5	0.9	5	0.9
2	M8	12	2.1	12	2.2
3			1.9		2.0
4			2.7		2.9
5			1.7		2.5
			8		

Recommended clamp spacing

Tube OD (mm)	Spacing distance (metres)
6-12.7	1
12.7-22	1.2
22-32	1.5
32-38	2
38-57	2.7
57-75	3
75-76.1	3.5
76.1-88.9	3.7
88.9-102	4
102-114	4.5
114-168	5
168-219	6
219-324	6.7
324-356	7
356-406	7.5
406-419	8.2
419-508	8.5
508-521	9
521-558	10
558-800	12.5



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Disclaimer

The data included in this catalogue is presented to you for informational purposes only. We recommend that you seek specialist materials advice and undertake testing to verify that our products are suitable for your application. The data in the tables provided are based on average values and we cannot be held responsible for any errors, omissions or typographical inaccuracies within the catalogue – we recommend that you check all supplied products thoroughly before installation to ensure that they are correct for your application. The data presented here is only intended for limited use for design purposes and we cannot be held responsible for how you choose to utilise these products. In the event of a query regarding liability, we cannot be held responsible for any consequential losses arising from the usage of these products and any claim would only be considered up to the value of the goods supplied by us and used by you.

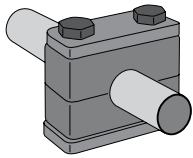
Technical and price changes may change at any time from those stated in this catalogue. Previous catalogues and price lists are superseded by this edition.

Our wider range of clamping and fixing solutions

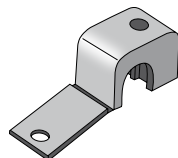
BOOK INDEX

SECTION INDEX

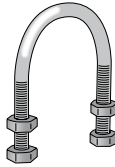
Please enquire about some of the wider range of clamping systems that we can supply.



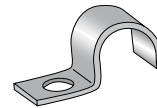
Clamps to DIN 3015



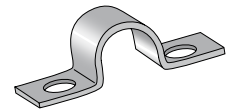
Light duty clamps



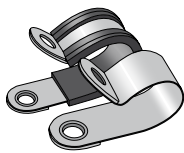
U-Clamps to DIN 3570



Fixings to DIN 1592/1596 & DIN 72571



Fixings to DIN 1593/1597 & DIN 72573



Clips to DIN 3016



Worm drive to DIN 3017



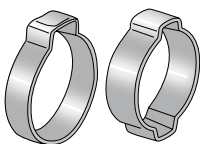
Heavy duty worm-drive to DIN 3017



Single-piece bolt clamps "Superclamps"



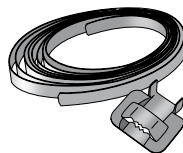
Two-piece bolt clamps "Superclamps"



Single and double-ear clamps



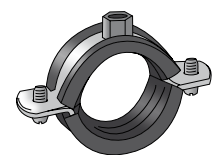
Quick-closing clamps



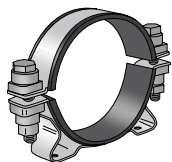
Clamping band



Exhaust pipe clamps to DIN 71555



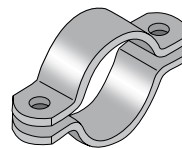
Vibration control clamps



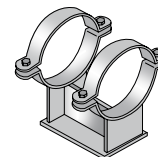
Fastening clamps



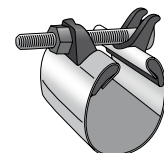
Consolido clamps



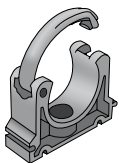
Flat steel clamps to DIN 3567



Pipe bearers



Repair and broad-band clamps



Clip clamps



Mounting plates



Saddle and pipe clips



Push in clips