

Product Catalogue

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Plastic Spacers

Norm Chair Spacer

Extremely sturdy plastic spacer intended for heavy loads. It has optimal stability and has a spot supporting load capacity of 400kg. It can maintain a concrete cover of 25mm to 100mm and used for bar sizes varies 8mm to 32mm



MODEL	Concrete Cover MM	Bar size	Pcs per package
PGNC250	25.00	8mm - 24mm	1000.00
PGNC300	30.00	8mm - 24mm	1000.00
PGNC400	40.00	8mm - 24mm	1000.00
PGNC501	50.00	8mm - 24mm	500.00
PGNC502	50.00	16mm- 32mm	500.00
PGNC600	60.00	16mm- 32mm	500.00
PGNC750	75.00	16mm- 32mm	250.00
PGNC100	100.00	16mm- 32mm	100.00

Clip Chair Spacer

Sturdy and versatile clip that accommodates most sizes of rebar and mesh. Most commonly used for precast concrete reinforcement rebar. It can maintain a concrete cover of 25mm to 100mm and used for bar sizes varies 6mm to 18mm.



MODEL	Concrete Cover MM	Bar size	Pcs per package
PGCC250	25	6MM-18MM	1000
PGCC300	30	6MM-18MM	1000
PGCC350	35	6MM-18MM	1000
PGCC400	40	6MM-18MM	1000
PGCC500	50	6MM-18MM	1000
PGCC600	60	6MM-18MM	500
PGCC750	75	6MM-18MM	500
PGCC100	100	6MM-18MM	250



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U Chair Spacer

Saddle type chair spacer suitable for supporting bars and mesh when casting flooring and slabs. It can be used with various bar diameter due to its open shape. . It can maintain a concrete cover of 25mm to 50mm and used for bar sizes (any size).



MODEL	Concrete Cover MM	Bar size	Pcs per package
PGUC250	25	any size	1000
PGUC300	30	any size	1000
PGUC400	40	any size	1000
PGUC500	50	any size	1000

Wheel Spacer

Wheel plastic circular spacer that is simply pushed onto the rebar to provide cover through a full 360 degrees making it ideal for columns, walls and beams. It can maintain a concrete cover of 25mm to 100mm and used for bar sizes varies 8mm to 32mm.



MODEL	Concrete Cover MM	Bar size	Pcs per package
PGWS250	25	8mm-14mm	1000
PGWS300	30	8mm-14mm	1000
PGWS400	40	10mm-20mm	250
PGWS500	50	10mm-20mm	200
PGWS750	75	08mm-20mm	100
PGWS100	100	16mm-32mm	50



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Pile Cage Spacer

Heavy duty spacer, specifically designed to give cover to pile cage reinforcement steel. It can maintain a concrete cover of 75mm to 100mm and used for bar sizes varies 14mm to 16mm.



MODEL	Concrete Cover MM	Bar size	Pcs per package
PGPCO750	75mm	14-16	100
PGPCV750	75mm	14-16	100
PGPCO100	100mm	16	100

Base Plate Spacer

These are wide based plastic spacers designed to support mesh or bar reinforcement off polythene membranes without puncturing the surface. It can maintain a concrete cover of 25mm to 70mm and used for bar sizes varies 8mm to 16mm.



MODEL	Concrete Cover MM	Bar size	Pcs per package
PGBP2530	25 30	08MM TO 14 MM	500
PGBP4050	40 50	08MM TO 14 MM	250
PGBP6070	60 70	08MM TO 16 MM	150



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Safety Rebar Caps

Rebar Safety Caps (Mushroom Yellow)

Highly visible colors Rebar Caps are used on the top of construction site steel rebar to ensure safety of workers. They protect workers against minor injuries caused by exposed rebar on site. Bar sizes varies 8mm to 32mm.



MODEL	Bar size	Pcs per Package
PGMRC0816	08-16 MM	1000
PGMRC1632	16-32 MM	500

Rebar Safety Caps (Orange Dome)

Orange safety rebar caps are used as warning sign of freely protruding rebar ends at construction site, prevent tearing of protective sheets and improve workers safety. It is also used as protection in rebar storage and transportation. Bar sizes varies 8mm to 40mm.



MODEL	Bar size	Pcs per Package
PGORC0816	08-16 MM	1000
PGORC1632	16-32 MM	1000
PGORC2540	25-40 MM	250



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Shim Pads

Square Shim Pads

Plastic Square shims are ideal for packing during erection of precast units. Square shims are sized with 70mm x 70mm and having thickness varies 2mm to 10mm.



U Shim Pads

U shims are ideal for packing during façade installation. U Shim pads are sized 70mm in length and having a thickness varies 2mm to 10mm.



MODEL	Length mm	Thickness mm	Pcs per Package
PGSSP02	70 x 70	2	1500
PGSSP03	70 x 70	3	1500
PGSSP05	70 x 70	5	1000
PGSSP10	70 x 70	10	500
PGUSP02	70	2	2000
PGUSP03	70	3	2000
PGUSP05	70	5	1500
PGUSP10	70	10	1000



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Plastic Chamfer

PVC Chamfer

PVC Chamfers provide smooth and professional finish for all right angle material intersections. E.g. corners, walls, columns and beams etc. PVC Chamfer is having nail hole slots to fix easily to formwork. The length of the strip is 2m and size of right angle available in 10mm, 15mm, 20mm, 25mm & 30mm.



MODEL	Size a	Size b	Length Mtr	Qty/bundle
PGPC10	10	15	2	50
PGPC15	15	21	2	50
PGPC20	20	28	2	50
PGPC25	25	35	2	50
PGPC30	30	41	2	50

PVC Chamfer with nailing flange

Used to chamfer corners of stairs columns etc. or pre-cast concrete products. The length of the strip is 2.5m and sizes of right angle available in 10mm, 15mm, 20mm, 25mm & 30mm



MODEL	Size a	Size b	Size c	Length Mtr	Qty/Bundle
PGPCF10	10	15	24	2.5	50
PGPCF15	15	21	31	2.5	50
PGPCF20	20	28	36	2.5	50
PGPCF25	25	35	45	2.5	50
PGPCF30	30	41	53	2.5	50



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Precast Accessories

Steel Chamfer

MS chamfer provide smooth and professional finish for all right angle material intersection. E.g. corners, walls, columns and beams etc. The length of the steel strip is 4 m and size of right angle available in 10mm, 15mm, 20mm, 25mm & 30mm.



MODEL	Size a	Size b	Size c	Length Mtr
PGSC10	10	10	14.14	4
PGSC15	15	15	21.21	4
PGSC20	20	20	28.28	4
PGSC25	25	25	35.35	4

Lifting Clutch

The Ring Clutch & lifting eye is a lifting assembly consisting of a bail, clutch, and curved bolt handle. Capacity varies from 1.3 ton to 45 ton and 2.5 ton to 26.0 ton respectively.



Model	Load Group (kg)	Length (mm)	Description
PGLC0013	1000-1300	165	1.3 T Lifting Eye
PGLC0025	2000-2500	205	2.5 T Lifting Eye
PGLC0050	4000-5000	240	5.0 T Lifting Eye
PGLC0100	7500-10000	346	10.0 T Lifting Eye
PGLC0200	15000-20000	520	20.0 T Lifting Eye
PGLC0320	32000	590	32.0 T Lifting Eye
PGLC0450	45000	590	45.0 T Lifting Eye

Model	Load Group (kg)	Length (mm)	Description
PGRC025	700-2500	259	2.5 T Ring Clutch
PGRC050	3000-5000	325	5.0 T Ring Clutch
PGRC100	5300-10000	431	10.0 T Ring Clutch
PGRC260	12500-26000	620	26.0 T Ring Clutch

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Spherical Anchor & Capstan Anchor

Spherical head anchor is cast into the concrete together with a removable recess former, and can be used to carry loads in all directions. Anchors with load capacities of up to 450 KN are available.



1. Eye Spherical Head Anchor

Model	Safe Working Load (kg)	Lenght (mm)
PGSAE013065	1300	65
PGSAE025090	2500	90
PGSAE025120	2500	120
PGSAE050090	5000	90
PGSAE050120	5000	120
PGSAE010115	10000	115
PGSAE010240	10000	180
PGSAE020250	20000	250
PGSAE032300	32000	300



2. Spherical Head Anchor



Load Group (kg)	Model	Safe Working Load (kg)	Lenght (mm)
	PGSHA13035	1300	35
	PGSHA13040	1300	40
	PGSHA13050	1300	50
1.3 TON	PGSHA13055	1300	55
	PGSHA13065	1300	65
	PGSHA13085	1300	85
	PGSHA13120	1300	120

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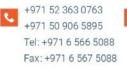
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	PGSHA25045	2500	45
	PGSHA25055	2500	55
	PGSHA25065	2500	65
	PGSHA25070	2500	70
	PGSHA25085	2500	85
2.5 TON	PGSHA25100	2500	100
	PGSHA25120	2500	120
	PGSHA25140	2500	140
	PGSHA25170	2500	170
	PGSHA25240	2500	240
	PGSHA25280	2500	280
	PGSHA50065	5000	65
	PGSHA50075	5000	75
	PGSHA50080	5000	80
	PGSHA50085	5000	85
	PGSHA50095	5000	95
	PGSHA50100	5000	100
	PGSHA50110	5000	110
	PGSHA50120	5000	120
5.0 TON	PGSHA50140	5000	140
	PGSHA50150	5000	150
	PGSHA50160	5000	160
	PGSHA50170	5000	170
	PGSHA50210	5000	180
	PGSHA50210	5000	210
	PGSHA50240	5000	240
	PGSHA50340	5000	340
	PGSHA50480	5000	480
	PGSHA75085	7500	85
	PGSHA75095	7500	95
	PGSHA75100	7500	100
	PGSHA75120	7500	120
	PGSHA75140	7500	140
	PGSHA75150	7500	150
7.5 TON	PGSHA75160	7500	160
	PGSHA75165	7500	165
	PGSHA75200	7500	200
	PGSHA75240	7500	240
	PGSHA75300	7500	300
	PGSHA75540	7500	540
10.0 TON	PGSHA10085	10000	85



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	PGSHA10100	10000	100
	PGSHA10110	10000	110
	PGSHA10115	10000	115
	PGSHA10120	10000	120
	PGSHA10135	10000	135
	PGSHA10150	10000	150
	PGSHA10170	10000	170
	PGSHA10200	10000	200
	PGSHA10220	10000	220
	PGSHA10250	10000	250
	PGSHA10340	10000	340
	PGSHA10650	10000	650
	PGSHA10680	10000	680
	PGSHA15140	15000	140
	PGSHA15150	15000	150
	PGSHA15165	15000	165
	PGSHA15200	15000	200
15.0 TON	PGSHA15210	15000	210
	PGSHA15300	15000	300
	PGSHA15400	15000	400
	PGSHA15840	15000	840
	PGSHA20165	20000	165
	PGSHA20200	20000	200
20.0 TON	PGSHA20250	20000	250
20.0 101	PGSHA20340	20000	340
	PGSHA20500	20000	500
	PGSHA20100	20000	1000
	PGSHA32175	32000	175
	PGSHA32280	32000	280
32.0 TON	PGSHA32500	32000	500
	PGSHA32700	32000	700
	PGSHA32120	32000	1200
45.0 TON	PGSHA45500	45000	500
40.0 TON	PGSHA45120	45000	1200



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3. Spherical Anchor Double Head

Model	Safe Working Load (kg)	Lenght (mm)
PGSAD13055	1300	55
PGSAD13085	1300	85
PGSAD13120	1300	120
PGSAD25055	2500	55
PGSAD25085	2500	85
PGSAD25110	2500	110
PGSAD25120	2500	120
PGSAD25170	2500	170
PGSAD25240	2500	240
PGSAD50075	5000	75
PGSAD50080	5000	80
PGSAD50120	5000	120
PGSAD50240	5000	240



Rubber Recess

Rubber Recess Formers are used for mounting anchors to formwork, or floating installation for all variations of Spread Anchors and Spherical anchors. A smaller version is available for Universal Anchors.



1. Round Rubber Recess

Model	Load Group	Width (mm)	Length (mm)	Height (mm)
PGRR013	1300	32	66	10
PGRR025	2500	39	80	14
PGRR050	5000	48	100	20
PGRR075	7500	48	100	24
PGRR100	10000	61	128	28
PGRR150	15000	61	128	38
PGRR200	20000	80	170	40
PGRR450	32000-45000	107	236	50

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2. Flat Rubber Recess

Model	Load Group	Width (mm)	Length (mm)	Height (mm)
PGFR013	700-1300	30	63	35
PGFR025	1400-2500	48	104	45
PGFR050	3000-5000	49	126	59
PGFR100	5300-10000	67	188	85
PGFR260	12500-26000	112	232	121

Erection Anchor

The Tech Erection Anchor is designed for use with precast elements during the edge lifting and rotation/handling process. If desired, the anchor utilizes a shear plate and tension bar that loops through the anchor to distribute the load into the concrete. The capacity varies from 1.3 ton to 26 ton.



1. Erection Anchor

Model	Safe Working Load (kg)	Length (mm)	Width (mm)	Thickness (mm)
PGEA014	1400	200	55	6
PGEA025	2500	230	55	10
PGEA050	5000	290	70	15
PGEA075	7500	320	95	15
PGEA100	10000	390	95	20

2. Two Hole Anchor

Model	Safe Working Load (kg)	Length (mm)	Width (mm)	Thickness (mm)
PGTH014	1400	90	30	6
PGTH025	2500	90	30	10
PGTH050	5000	120	40	15
PGTH075	7500	160	60	15
PGTH100	10000	170	60	20
PGTH220	22000	300	80	20



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Wire Loop

Connecting Loops are single-wire loops for connecting precast wall panels to each other or to a column. Connecting Loops make wall installation easy: just remove the tape and bend the loop to the operating position. The size of loops available in 60mm, 80mm and 100mm.



Model	Inside Loop (mm)	Box Length (mm)	Box Width (mm)	Box Height (mm)
PGWLB060	60	160	50	20
PGWLB080	80	160	50	20
PGWLB100	100	160	50	20
PGWLB120	120	160	50	20
PGWLB140	140	200	70	30

Corrugated Pipe & Galvanized Steel Coil

Bore Ø d (mm)	Allowable Deviation	Width of Stripes (mm)	Thickness of Stripes (mm)	Spiral Angle a°	Mandrel Ø	Spiral Guider Ø (mm)	Pipe Die Ø (mm)	Number of Gear Teeth	Point Load (N)	Even Load (N)	Deformation (mm)
40	+ 0.5	36	0.25 -	10°49'	22	40	40	27	800	496	<8
45			0.3 (+ /	9°38′	22	45	45	30	800	628	<9
50			- 0.02)	8°41'	35	50	50	33	800	775	<10
55				7°55'	35	55	55	36	800	938	<11
60				7°16′	35	60	60	39	800	1116	<12
65				6°43′	35	65	65	42	800	1310	<13
70				6°14'	35	70	70	45	800	1519	<14
75				5°49'	35	75	75	49	800	1744	<15
80				5°28′	35	80	80	52	800	1984	<16
85				<mark>5°08'</mark>	35	85	75	55	800	2240	<17
90				4°51'	35	90	90	58	800	2511	<18
95				4°36'	35	95	95	61	800	2 798	<19
100				4°22'	35	100	100	65	800	3100	<20
105	+1.0			4°10'	35	105	105	68	800	3418	<21
110				3°58′	35	110	111	70	800	3751	<22



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Corrugated pipes are mainly used in precast concrete products and pre-stressed concrete for providing better sturdy sleeve and injection concrete grout. The diameter of pipe varies from 30mm to 80mm. The length can be made as per the customer requirement.



Threaded Socket & Loops

Lifting sockets and fixing sockets are used in precast concrete, GRC, facades and cladding industries for fixing, lifting and installation. The sizes varies from 6mm to 36mm having both M thread and RD thread. The capacity hold by sockets varies from1.3 ton to 45 ton. Lifting loops are used as an assembly with sockets which directly clamped with crane hoist.



1. Lifting Loop

Model	Thread Dia. (M)	Length (mm)	Safe Working Load (kg)
PGLL12	12	155	500
PGLL16	16	165	1200
PGLL20	20	215	2000
PGLL24	24	255	2500
PGLL30	30	300	4000
PGLL36	36	360	6300
PGLL42	42	425	8000
PGLL52	52	530	12500



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2. <u>RD Socket</u>

Model	Thread Dia. (RD)	Length (mm)	Safe Working Load (kg)
PGRD12040	12	40	500
PGRD16054	16	54	1200
PGRD20069	20	69	2000
PGRD24078	24	79	2500
PGRD30105	30	105	4000
PGRD36125	36	125	6300
PGRD42145	42	145	8000
PGRD52195	52	195	12500



3. Flat Plate Socket

Model	Thread Dia. (RD)	Length (mm)	Safe Working Load (kg)
PGFP12	12	30	500
PGFP16	16	35	1200
PGFP20	20	47	2000
PGFP24	24	54	2500
PGFP30	30	72	4000
PGFP36	36	84	6300
PGFP42	42	98	8000
PGFP52	52	117	12500



4. Solid Rod Socket

Model	Thread Dia. (RD)	Length (mm)	Safe Working Load (kg)
PGSR10	10	42	600
PGSR12	12	50	900
PGSR12	12	75	900
PGSR16	16	75	1700
PGSR20	20	75	2300
PGSR24	24	100	3000
PGSR30	30	125	6000
PGSR36	36	140	7000
PGSR42	42	150	8500
PGSR52	52	180	13000



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5. Solid Rod Socket with Pin

Model	Thread Dia. (RD)	Length (mm)	Safe Working Load (kg)	Pin thickness mm	Pin Length mm
PGSRP10	10	42	600	6/8	50
PGSRP12	12	50	900	10	75
PGSRP12	12	75	900	10	75
PGSRP16	16	75	1700	10/12	75
PGSRP20	20	75	2300	12/14	90
PGSRP24	24	100	3000	16	100
PGSRP30	30	125	6000	18	110
PGSRP36	36	140	7000	20	125
PGSRP42	42	150	8500	25	145
PGSRP52	52	180	13000	28	165



6. Fixing Socket

Model	Thread Dia. (M)	Length (mm)	Safe Working Load (kg)
PGFS08050	8	50	250
PGFS10050	10	50	350
PGFS12060	12	60	500
PGFS12070	12	70	800
PGFS16080	16	80	850
PGFS16100	16	100	1000
PGFS16120	16	120	1200
PGFS20100	20	100	1300
PGFS20120	20	120	1400
PGFS24120	24	120	1800



7. Fixing Socket with Cross Pin

Model	Thread Dia. (M)	Length (mm)	Safe Working Load (kg)	Pin thickness mm	Pin Length mm
PGFSP08050	8	50	250	8	50
PGFSP10050	10	50	350	10	70
PGFSP12060	12	60	500	12	70
PGFSP16080	16	80	850	12	100
PGFSP16100	16	100	1000	12	100
PGFSP16120	16	120	1200	12	100
PGFSP20100	20	100	1300	14	120
PGFSP24120	24	120	1800	14	150



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Model	Thread Dia. (M)	Length (mm)	Safe Working Load (kg)
PGFSB08050	8	50	180
PGFSB10035	10	35	240
PGFSB12045	12	45	400
PGFSB12060	12	60	500
PGFSB12070	12	70	800
PGFSB16060	16	60	950
PGFSB16100	16	100	1300
PGFSB20070	20	70	1200
PGFSB20100	20	100	1600
PGFSB24080	24	80	1600

8. Fixing Socket with Bend End



Backing Rod

Closed cell polyethylene foam rod are used in various types of expansion joints, strips of suitable diameter and Length can be used as padding at the edge of bitumen impregnated, closed cell foam expansion joint filler sheets. Joints in trafficked surfaces, bridges, roads, runways and pedestrian areas. Joints in concrete roofs, walls, cladding and floors. Diameter sizes varies from 6mm to 100mm.



Model	Sizes	Length Mtr / Roll
PGBR06	06mm	1200
PGBR08	08mm	800
PGBR10	10mm	800
PGBR12	12mm	600
PGBR20	20mm	360
PGBR25	25mm	200
PGBR30	30mm	100
PGBR40	40mm	100
PGBR50	50mm	50



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Binding Wire

1. **GI Binding Wire**

GI Binding wire are galvanized binding wire with coating of Zn in order to prevent from rusting. The gauge varies from 16 to 23. To avoid attack from the moisture package is done with polythene covering overlapped with hessian cloth.



2. Black Annealed Binding Wire

Black annealed binding wire is made of carbon steel wire. Used for weaving and bailing in general but in some case it's used in the construction industry for rebar tying. To avoid attack from the moisture package is done with polythene covering overlapped with hessian cloth



3. Epoxy/PVC Coated Binding Wire

PVC coated/Epoxy coated Binding Wire is the steel wire coated with epoxy or PVC in order to prevent from chemical attack. Used in some special case of construction like offshore, underwater and seaside construction etc.



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Fasteners & Fixtures

1. Drop in Anchor/Uni-fix

Drop-In anchors are female concrete anchors designed for anchoring into concrete. Drop the anchor into the pre-drilled hole in the concrete. Using a setting tool expands the anchor within the hole in the concrete. Drop-in anchors require a setting tool to install.



Model	Sizes M	Length mm
PGDA06	6	25
PGDA08	8	30
PGDA10	10	40
PGDA12	12	50
PGDA16	16	65
PGDA20	20	80

2. Threaded Rod

Galvanized (G.I) Threaded Rod is a round rod with threads and could be fastened from both ends. This thread varies from 6mm to 36mm. Available in galvanized iron and stainless steel. In length 1m, 2m and 3m.



Model	Sizes M	Length mm
PGTR06	6	2000
PGTR08	8	2000
PGTR10	10	2000
PGTR12	12	2000
PGTR16	16	2000
PGTR20	20	2000



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3. Hex Nuts

A Hex nut is a type of fastener with a threaded hole. Nuts are almost always used in conjunction with a mating bolt to fasten multiple parts together. The two partners are kept together by a combination of their threads friction. A slight stretching of the bolt, and compression of the parts to be held together.

Hex Nut	S													
CEP .	1		E					5587	,					
Carbon Steel		Stai	nless	steel			m) ^{120*}		(O) s				
d	M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
Coarse Pitch	0.5	0.7	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
Fine Pitch	0.35	0.5	0.5	0.75	0.75	1	1.25	1.25	1.5	1.5	1.5	1.5	1.5	2
S	5.5	7	8	10	11	13	17	19	24	24	27	30	32	36
m	3	4	5	6	7	8	10	12	16	16	18	20	22	24
d	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64	M68	M72
Coarse Pitch	3	3.5	3.5	4	4	4.5	4.5	5	5	5.5	5.5	6	6	6
Fine Pitch	2	2	2	3	3	3	3	3	3	4	4	4	4	4
S	41	46	50	55	60	65	70	75	80	85	90	95	100	105
	27	30	33	36	39	42	45	48	52	56	60	64	68	72





5588 -	DIN 934
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	5588 -

-m-

Carbon Steel

Stainless steel

d	М3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
Coarse Pitch	0.5	0.7	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
Fine Pitch	0.35	0.5	0.5	0.75	0.75	1	1.25	1.25	1.5	1.5	1.5	1.5	1.5	2
S	5.5	7	8	10	11	13	17	19	24	24	27	30	32	36
m	2.4	3.2	4	5	5.5	6.5	8	10	11	13	15	16	18	19
d	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64	M68	M72
Coarse Pitch	3	3.5	3.5	4	4	4.5	4.5	5	5	5.5	5.5	6	6	6
Fine Pitch	2	2	2	3	3	3	3	3	3	4	4	4	4	4
S	41	46	50	55	60	65	70	75	80	85	90	95	100	105
m	22	24	26	29	31	34	36	38	42	45	48	51	54	58



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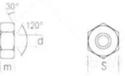








UNI 5589 - DIN 936



d	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
Coarse Pitch	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5
Fine Pitch	0.5	0.75	0.75	1	1.25	1.25	1.5	1.5	1.5	1.5	1.5	2	2	2
S	8	10	11	13	17	19	22	24	27	30	32	36	41	46
m	3.5	4	4	5	6	7	8	8	9	9	10	10	12	12
d	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64	M68	M72	M76	M80
Coarse Pitch	3.5	4	4	4.5	4.5	5	5	5.5	5.5	6	6	6	6	6
Fine Pitch	2	3	3	3	3	3	3	4	4	4	4	4	4	4
S	50	55	60	65	70	75	80	85	90	95	100	105	110	115
m	14	14	16	16	18	18	20	22	24	26	26	28	30	32





Carbon Steel

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Stainless steel

UNI 5713 - DIN 6915



d	M12	M14	M16	M18	M20	M22	M24	M27	M30
b	20	22	25	28	30	34	39	43.5	55.5
m	10	11	13	15	16	18	19	22	24
s	22	24	27	30	32	36	41	46	49

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4. Washers

A washer is a thin plate (typically disk-shaped, but sometimes square) with a hole (typically in the middle) that is normally used to distribute the load of a threaded fastener, such as a bolt or nut. Other uses are as a spacer, spring (Belleville washer, wave washer), wear pad, preload indicating device, locking device, and to reduce vibration (rubber washer).

									0.	11 65							
	\bigcirc								(\overline{O}	d1		1				
Car	rbon St	eel		Stai	nless	steel			int	d2			5				
Φ	M3	MЗ	M4	M4	M5	M5	M6	M6	M7	M8	M8	M10	M10	M12	M12	M14	M16
d1		-	4.3	4.3	5.3	5.3	6.4	6.4	7.4	8.4	8.4	10.5	10.5	13	13	15	17
d2	6	7	8	9	9.5	10	11	12	14	14	16	18	20	20	24	28	30
S	-	-	0.8	0.8	1	1	1.6	1.6	1.6	1.6	1.6	2	2	2.5	2.5	2.5	3
Φ	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M58	M60	M6
d1	19	21	23	25	27	31	34	37	40	43	46	50	54	58	60	62	66
d2	34	37	39	44	50	56	60	66	72	78	85	92	98	105	110	110	11
uz	04	0/	0,		0.575												
s	3	3	3	4	4	4	5	5	6 UU	7 NI 65	7 93 -	8 DIN	8 9021	9 I - IC	9 0S 70	9 93	9
s	3	3		4	•		5	5	ú.	0		3	9021				9
s	3	3		4	4		5	5	ú.		93 -	3	uu				9
s Carl	3	3		4 Stair	nless	steel	5 M6	5 M6	ú.	0	93 - d1	DIN	9021				540
s Carl	3 bon Ste	3 eel	3	4 Stain	nless	steel M5	<	ALC: No.	10	NI 65	93 - d1 Mi	DIN B M	9021	1 - 10	os 70	93	M
s Carl Φ	3 bon Stor M3	3 eel M4	3 M4	4 Stair	nless 5 N 3 5	steel	M6	M6	Ur (M7	NI 65	93 - d1 Mi	DIN 8 M 4 8	9021	I - IO M9	N9	93 M10	M ¹
s Carl Φ d1 d2	3 bon Sto M3 3.2	3 eeel M4 4.3	3 M4 4.3	4 Stair	0 nless 5 N 3 5 5 2	M5 5.3 20	M6 6.4	M6 6.4	UI (M7 7.6	NI 65 0 d2 M7 7.6	93 - d1 Ma 8.4	DIN <u>8 M</u> <u>4 8</u> <u>4 3</u>	9021 s 18 4 2	M9 9.6	M9 9.6	93 M10 10.5	M ⁻ 10
s Carl Φ d1 d2 s	3 bon Sto M3 3.2 9	3 eel M4 4.3 12	3 M4 4.3 16 1	4 Stain M 3 5. 11 1.	Image: 5 M 3 5 5 2	M5 5.3 20	M6 6.4 18	M6 6.4 24 1.6	UT (M7 7.6 21 2	M7 7.6 28 2.5	93 - d1 Ma 8.4 24	DIN <u>8 M</u> <u>4 8</u> <u>4 3</u>	9021 s 18 1 4 0 2 5 2	M9 9.6 27 2.5	M9 9.6 38 2.5	93 M10 10.5 30	M1 10 40 2.
s Cari Φ dd1 dd2 s Φ	3 bon Sto M3 3.2 9 0.8	3 eeel M4 4.3 12 1	3 M4 4.3 16 1	4 Stain 3 5. 11 1.	Image: 5 M 3 5 5 2	M5 5.3 20	M6 6.4 18 1.6	M6 6.4 24 1.6	UN (<u>M7</u> 7.6 21 2 18 M	M7 7.6 28 2.5	93 - d1 <u>Mi</u> 8.4 24 32	DIN <u>8 M</u> <u>4 8</u> <u>4 3</u> <u>2 6</u>	9021 s 18 1 .4 0 2 .5 2	M9 9.6 27 2.5	M9 9.6 38 2.5	M10 10.5 30 2.5	M1 10 40 2.
s Carl Φ d1 d2	3 bon Sto M3 3.2 9 0.8 M12	3 eeel M4 4.3 12 1 M12	3 M4 4.3 16 1 1 2 M1	4 Stain 3 5. 18 1. 1. 1. 14 M	Image: mail of the second se	M5 5.3 20 1.2 M16	M6 6.4 18 1.6 M16	M6 6.4 24 1.6	UN (7.6 21 2 18 M 0	M7 65 d2 M7 7.6 28 2.5 118	93 - d1 <u>8.4</u> <u>32</u> M20	DIN 3 M 4 8 4 3 2 6 M20	9021 s 18 1 .4 0 2 .5 2	M9 97.6 27 2.5 22 N 3	M9 9.6 38 2.5	M10 10.5 30 2.5 M27	5-411



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5. <u>Clevis Hanger</u>

Standard	Duty Clevis Hanger	
Material :	Carbon Steel - Zinc Plated Plain Oil Finished Stainless Steel - SS304 / SS316	
 Application 	: Designed for suspending stationary pipe lines. Design of hanger allows for vertical adjustment.	
Ordering :	Specify pipe size and figure number . This hanger is only available in sizes 1/2" to 5" and in design for light loads only .For heavier loads refer to figure # HDCH clevis hanger.	U
 Approvals : 	Complies with manufacturers standardization Society SP-69 Type 1	



1/2" thru 6" ,Zinc Plated only



3/4" thru 5" ,Zinc Plated only

S	IZE	-,	A *	*B	3"	- C)" "	-0	D*	lower M	aterial	Upper M	aterial	Max Rec Load
in	pipe size	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.
1/2	21.4	3/8	10	2-13/16	71	2-11/32	60	1/4	6	3/32 x 7/8	2x22	332 x 7/8	2x22	250
34	26.7	3/8	10	3	76	2-7/16	62	1/4	6	3/32 x 7/8	2x22	3/32 x 7/8	2x22	250
1	33.4	3/8	10	3-5/16	84	2-5/8	67	1/4	6	3/32 x 7/8	2x22	3/32 x 7/8	2x22	250
1-1/4	42.2	3/8	10	3-11/16	93	2-13/16	71	1/4	6	3/32 x 7/8	2x22	3/32 x 7/8	2x22	250
1-1/2	48.3	3/8	10	4	101	3	76	1/4	6	3/32 x 7/8	2x22	332 x 7/8	2x22	250
2	60.4	3/8	10	4-7/16	112	3-3/16	81	1/4	6	3/32 x 7/8	2x22	3/32 x 7/8	2x22	250
2-1/2	73.1	1/2	13	5-3/8	136	3-29/32	99	3/8	10	1/8 x1-3/16	3x30	1/8 x1-3/16	3x30	350
3	88.9	1/2	13	6	152	4-7/32	107	3/8	10	1/8 x1-3/16	3x30	1/8 x1-3/16	3x30	350
3-1/2	101.6	1/2	13	6-5/8	168	4-9/16	116	3/8	10	1/8 x1-3/16	3x30	1/8 x1-3/16	3x30	350
4	114.3	5/8	17	7-1/2	190	5-13/64	132	3/8	10	1/8 x1-3/16	3x30	3/16x1-3/16	4.5x30	400
5	141.3	5/8	17	8-7/8	225	6-1/16	153	1/2	13	3/16 x1-3/16	4.5x30	14 x1-316	6x30	1430
6	168.3	3/4	20	10	254	6-5/8	169	1/2	13	3/16 x1-1/2	4.5x38	1/4 x1-1/2	6x38	1940
8	219.1	3/4	20	12-3/4	324	8-3/8	213	5/8	16	3/16 x1-1/2	4.5x38	1/4 x1-1/2	6x38	2000
10	273.1	7/8	23	16-5/8	423	11-1/4	286	3/4	19	1/4 x 2	6.0x50	516x2	8x50	3600
12	323.9	7/8	23	18-5/8	475	12-5/16	313	3/4	19	1/4 x 2	6.0x50	516x2	8x50	3800



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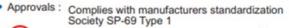


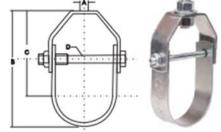




Heavy Duty Clevis Hanger

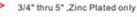
- Carbon Steel Zinc Plated · Material : Plain Oil Finish Stainless Steel -SS304 / SS316
- Application : Designed for suspending non-insulated stationary pipe, also stainless steel pipe, allowing for vertical adjustment .
- Ordering : Specify pipe size and figure number .





Approvals : Complies with manufacturers standardization Society SP-69 Type 1

ΨL US 1/2" thru 6" ,Zinc Plated only LISTED



S	IZE	-/	A "	"E	3*	*0		*(0*	Lower M	laterial	Upper N	laterial	Max Rec Load
in	pipe size	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.
1/2	21.4	3/8	10	2-7/8	73	2-3/8	61	1/4	6	1/8 x 1	3x25	1/8 x 1	3x25	730
3/4	26.7	3/8	10	3-3/16	80	2-9/16	66	1/4	6	1/8 x 1	3x25	1/8×1	3x25	730
1	33.4	3/8	10	3-3/8	86	2-11/16	68	1/4	6	1/8 x 1	3x25	1/8×1	3x25	730
1-1/4	42.2	3/8	10	3-3/4	95	2-3/4	73	1/4	6	1/8 x 1	3x25	1/8 x 1	3x25	730
1-1/2	48.3	3/8	10	4-1/16	103	3-1/16	78	1/4	6	1/8 x 1	3x25	1/8 x 1	3x25	730
2	60.4	3/8	10	4-1/2	114	3-1/4	83	1/4	6	1/8 x 1	3x25	1/8 x 1	3x25	730
2-1/2	73.1	1/2	13	5-1/2	140	4-1/16	103	3/8	10	8/16 x1-3/16	4.5x30	3/16x1-3/16	4.5x30	1350
3	88.9	1/2	13	6-1/8	155	4-5/16	109	3/8	10	B/16 x1-3/16	4.5x30	3/16x1-3/16	4.5x30	1350
3-1/2	101.6	1/2	13	6-34	171	4-11/16	119	3/8	10	B/16 x1-3/16	4.5x30	3/16x1-3/16	4.5x30	1350
4	114.3	5/8	16	7-5/8	193	5-5/16	135	3/8	10	3/16x1-3/16	4.5x30	1/4 x1-3/16	6x30	1430
5	141.3	5/8	16	8-7/8	225	6-1/16	153	1/2	13	3/16x1-3/16	4.5x30	1/4 x1-3/16	6x30	1430
6	168.3	3/4	20	10	254	6-5/8	169	1/2	13	3/16x1-1/2	4.5x38	1/4 x1-1/2	6x38	1940
8	219.1	3/4	20	12-3/4	324	8-3/8	213	5/6	16	3/16x1-1/2	4.5x38	1/4 x1-1/2	6x38	2000
10	273.1	7/8	23	16-5/8	423	11-1/4	286	3/4	19	1/4 x 2	6x50	5/16x2	8x50	3600
12	323.9	7/8	23	18-5/8	475	12-5/16	313	3/4	19	1/4 x 2	6x50	5/16x2	8x50	3800
14	355.6	1	25	20-5/16	516	13-5/16	338	7/8	22	1/4 x 2	6x50	1/2 x 2	12x50	4200
16	406.4	1	25	22-1/16	560	14	355	1	25	1/4 x 2-1/2	6x64	1/2 x 2-1/2	12x64	4600
18	457.2	1	25	24-3/4	628	17-3/4	399	1-1/8	28	1/4 x 2-1/2	6x64	1/2 x 2-1/2	12x64	4800
20	508.0	1-1/4	32	27-3/8	695	19-5/8	441	1-1/4	32	5/16 x 3	8x76	58x3	16x76	4800
24	609.6	1-1/4	32	31-5/8	803	15-11/16	498	1-1/4	32	5/16 x 3	8x76	58x3	16x76	4800

FM



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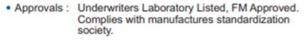
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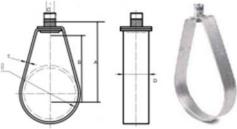


6. Swivel Band Hanger

Swivel Band Hanger

- Material: Carbon Steel Pre-Galvanized
- Application : Use for all general purpose and fire protection lines. The knurled nut allows for hanger alignment and adjustment after installation.
- Ordering : Specify pipe size and figure number .







1/2" thru 6" ,Pre-Galvanized only

3/4" thru 6" ,Pre-Galvanized,only

Max "C" "A" "B" "D" *T* Size Rec Load pipe size metric mm mm in mm in in in gauge lbs. 16 18 300 21.4 3/8 M10 54.50 41.50 5/8 1.2 1/2 3/4 26.7 3/8 M10 60.50 45.34 5/8 16 1.2 18 300 33.4 3/8 M10 64.16 47.73 5/8 16 1.2 18 300 1 1-1/4 42.2 3/8 M10 70.74 54.31 5/8 16 1.2 18 300 48.3 57.58 1.2 300 1-1/2 3/8 M10 74.01 5/8 16 18 3/8 2 60.4 M10 82.59 66.16 5/8 16 1.2 18 300 2-1/2 73.1 3/8 M10 104.5 88.69 22 16 600 7/8 1.5 88.9 M10 112.5 7/8 22 1.5 16 600 3 3/8 96.12 3-1/2 101.6 3/8 M10 120.5 100.5 7/8 22 1.5 16 600 114.3 3/8 M10 126.9 110.7 7/8 22 1.5 1000 4 16 4 114.3 3/8 M10 126.9 110.7 7/8 22 2.0 14 1200 2.5 12 5 141.3 1/2 M12 145.5 135.7 3/4 19 1000 6 168.3 1/2 M12 173.2 154.1 3/4 19 2.5 12 1200 219.1 211.5 3/4/1 2.5 12 1200 192.4 19/25 8 1/2 M12



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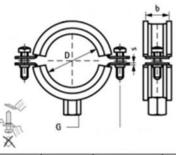




7. Rubber Lined Pipe Clamp

Rubber Lined Pipe Clamp

- Carbon Steel Zinc Plated Material : **EPDM Rubber**
- · Application : Designed for all horizontal, vertical & roof hanging installations
- Ordering : Specify figure number and pipe size. Without Rubber type mark "PC-" Other thickness also available
- · Note:





Cat No	Pipe	Size	Range	T(for	choice)	b(for	choice)		S(for c	hoice)		G	(for choi	ce)
Cat.No.	in	mm	D	m	m	n	m		m	m			mm	
PCWR-014	-	15	12-16	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-038	3/8	18	15-19	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-050	1/2	22	20-25	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-075	3/4	28	26-30	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-100	1	35	32-36	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-125	1-1/4	40	38-43	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-150	1-1/2	48	47-51	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-175		54	53-58	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-200	2	60	60-64	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-225	-	70	68-72	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-250	2-1/2	75	75-80	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-275		83	81-86	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-300	3	90	87-92	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-350	3-1/2	100	99-105	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-400	4	110	107-112	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-400*	-	115	113-118	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-475		125	125-130	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-500	5	140	138-142	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-600	6	160	159-166	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-800	8	200	200-212	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-800*	-	220	215-226	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-1000	10	250	248-252	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1
PCWR-1200	12	315	313-318	M6	M8	20	25	1.2	1.5	2.0	2.5	M8	M10	M8+1



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Nails

1. Wire Nails

Common nai	ls	The	length	The d	iameter	The weight/ 1000nails	Quantity/ ky
		inch					piece
1 582.72	Characteristic:Bright	1/2	9.52	20	0.89	0.046	21730
	finished,Anti-rust,Strong and	3/4			1.47	0.25	4000
	hard	1-11/2	25.40-38.10	14-16	1.65-2.11	0.42-1.03	971-2380
1300	L	2-21/2	63.5-50.80		2.77-3.05	2.37-3.58	279-422
4	Length:1/2"-7"	3-31/2	76.2-88.9	9-10	3.40-3.76	5.35-7.65	131-187
		4-7	101.6-177.8		4.19-6.05	10.82-40.32	24.8-92.4

2. Steel Nails

• Concrete nails		Length	mm	Gauge NO.
		3/4"	19.050	BWG11/12
	Diameter:BWG7-BWG12		25.400	BWG10/11/12
6	Length:3/4-4"		38.099	BWG9/10/11
DET !!		2*	50.800	BWG8/9/10/11
- AC	Shank:Smooth,grooved shank	21/2*	63.499	BWG8/9/10
	Packing:Bags or Carton,As customers request		76.200	BWG7/8/9
			101.600	BWG7/8/9

0

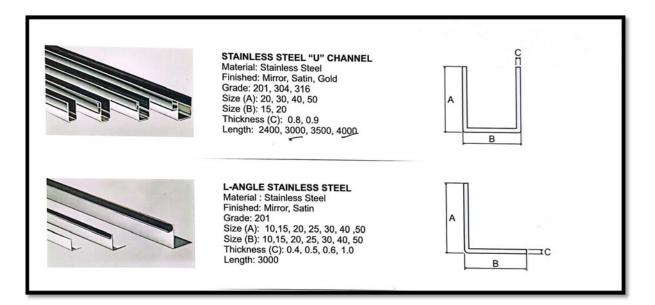
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Stainless Steel Fixing

1. U Channels & L Angles



2. Square Tubes & Round Pipes



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