

free call: 1-800 6444 34
www.tubeinserts.com.au

free fax: 1-800 6444 35
www.levellingfeet.com.au

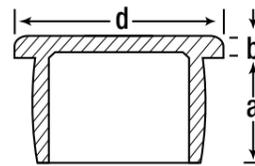
email: parts@flexliner.com.au
www.tubeconnectors.com.au

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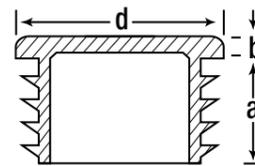
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SQUARE tube inserts

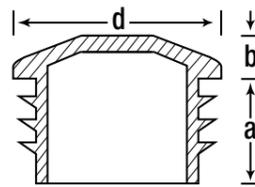
PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (inches)	Shank length a (mm)	Head b (mm)	Ribbed or Plain	Stock colour	Weight (grams)
SQiR-5936	12.7 x 12.7 x 1.25 - 1.6	1/2" x 1/2" x 18/16g	7.5	3	plain	black	1
SQiR-5931	16 x 16 x 1 - 2.5	5/8" x 5/8" x 18/12g	11.5	5	rib	black	2
SQiR-5932	19 x 19 x 1.2 - 2.9	3/4" x 3/4" x 18/10g	12.8	4.8	rib	black	3
SQiR-5961	20 x 20 x 0.8 - 3		11.5	5	rib	black	3
SQiR-5962	22 x 22 x 0.8 - 3.5	7/8" x 7/8" x 18/10g	11.5	5	rib	black	3
SQiR-5901	25 x 25 x 1 - 3		11.5	5	rib	black	4
SQiR-5901W	25 x 25 x 1 - 3		11.5	5	rib	white	4
SQiR-5901G	25 x 25 x 1 - 3		11.5	5	rib	grey	4
SQiR-5902	25 x 25 x 2 - 3.2		16	5.5	rib	black	6
SQiR-5917	25.4 x 25.4 x 1.2 - 3.2	1" x 1" x 18/10g	11.5	5	rib	black	4
SQiR-5904	30 x 30 x 1 - 2.5		11.5	5	rib	black	5
SQiR-5906	32 x 32 x 1 - 3.5	1 1/4" x 1 1/4" x 20/10g	11.5	5	rib	black	6
SQiR-5906W	32 x 32 x 1 - 3.5	1 1/4" x 1 1/4" x 20/10g	11.5	5	rib	white	6
SQiR-5906G	32 x 32 x 1 - 3.5	1 1/4" x 1 1/4" x 20/10g	11.5	5	rib	grey	6
SQiR-5903	35 x 35 x 1 - 3		14.5	5	rib	black	7
SQiR-5913	38 x 38 x 1.25 - 3	1 1/2" x 1 1/2" x 18/10g	20.5	8	rib	black	15
SQiR-5913W	38 x 38 x 1 - 3.5	1 1/2" x 1 1/2" x 18/10g	14.5	5	rib	white	15
SQiR-5913G	38 x 38 x 1 - 3.5	1 1/2" x 1 1/2" x 18/10g	14.5	5	rib	grey	15
SQiR-5975	40 x 40 x 1 - 3		13	4.5	rib	black	10
SQiR-5905	40 x 40 x 2.6 - 4		18	6.5	rib	black	12
SQiR-5911	45 x 45 x 1 - 3		19	5	rib	black	10
SQiR-5914	50 x 50 x 0.8 - 3		14.5	5	rib	black	10
SQiR-5914W	50 x 50 x 0.8 - 3		14.5	5	rib	white	10
SQiR-5914G	50 x 50 x 0.8 - 3		14.5	5	rib	grey	10
SQiR-5907	50 x 50 x 3 - 5		20	7	rib	black	20
SQiR-5916	50.8 x 50.8 x 1.6 - 3.2	2" x 2" x 16/10g	20.5	7	rib	black	22
SQiR-5912	60 x 60 x 1.6 - 3.5		23.5	5	rib	black	23
SQiR-5908	60 x 60 x 3.2 - 5		20	7	rib	black	30
SQiR-5909	65 x 65 x 2 - 4.5		21	5	rib	black	27
SQiR-5910	70 x 70 x 3.6 - 5		20	8	rib	black	40
SQiR-5919	75 x 75 x 2 - 4.5		21	6	rib	black	32
SQiR-5924	80 x 80 x 2 - 4.5		25	8.5	rib	black	40
SQiR-5925	90 x 90 x 3 - 5		22	7	rib	black	50
SQiR-5926	90 x 90 x 3.6 - 6.3		25	9	rib	black	75
SQiR-5927	100 x 100 x 1 - 4		24	7	rib	black	85
SQiR-5928	100 x 100 x 4 - 6.3		25	9.5	rib	black	100
SQiR-5934	125 x 125 x 3 - 6		24.5	6	rib	black	105
SQiR-5930	150 x 150 x 5 - 8		27	8	rib	black	170
SQiR-5933	150 x 150 x 10 - 12.5		27	9.5	rib	black	150
SCHi-5945	20 x 20 x 1.6 - 2	chamfered top	12	5	rib	black	3
SCHi-5945W	20 x 20 x 1.6 - 2	chamfered top	12	5	rib	white	3
SCHi-5946	22 x 22 x 1.6 - 2	chamfered top	14	5	rib	black	4
SCHi-5946W	22 x 22 x 1.6 - 2	chamfered top	14	5	rib	white	4
SCHi-5947	25 x 25 x 1.6 - 2	chamfered top	14	5	rib	black	5
SCHi-5947W	25 x 25 x 1.6 - 2	chamfered top	14	5	rib	white	5
SCHi-5948	30 x 30 x 1.6 - 2	chamfered top	13.5	5	rib	black	6
SCHi-5948W	30 x 30 x 1.6 - 2	chamfered top	13.5	5	rib	white	6
SCHi-5949	35 x 35 x 1.6 - 2	chamfered top	13.5	5	rib	black	8
SCHi-5949W	35 x 35 x 1.6 - 2	chamfered top	13.5	5	rib	white	8
SCHi-5950	40 x 40 x 1.6 - 2	chamfered top	14.5	5	rib	black	12
SCHi-5950W	40 x 40 x 1.6 - 2	chamfered top	14.5	5	rib	white	12
SCHi-5951	50 x 50 x 1 - 2	chamfered top	14	5	rib	black	12
SCHi-5951W	50 x 50 x 1 - 2	chamfered top	14	5	rib	white	12



plain flat



ribbed flat



ribbed chamfered

MATERIAL:
polyethylene (PE)

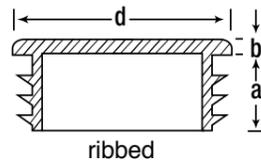
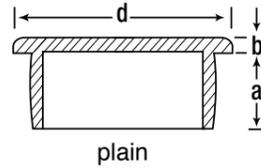
COLOURS:
black
white(RAL9003)
grey(A RAL7042)



PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (inches)	Shank length a (mm)	Head b (mm)	Ribbed or Plain	Stock colour	Weight (grams)
RLiR-2853	25.4 x 12.7 x 0.8 - 2	1" x 1/2" x 22/14g	11	4	rib	black	2
RLiR-5970	30 x 15 x 0.8 - 2.5		11.5	5	rib	black	3
RLiR-5966	30 x 20 x 1-3		11.5	5	rib	black	3
RLiR-5963	34.5 x 19 x 0.8 - 3	13/8" x 3/4" x 22/10g	11.5	5	rib	black	4
RLiR-2985	38 x 19 x 0.8 - 2	1 1/2" x 3/4" x 22/14g	11.5	5	plain	black	5
RLiR-5965	38 x 25.4 x 0.8 - 3	1 1/2" x 1" x 22/10g	11.5	5	rib	black	5
RLiR-5977	40 x 20 x 0.8 - 3		13	5	rib	black	5
RLiR-5952	40 x 25 x 1 - 3.5		12	5	rib	black	5
RLiR-5953	44.5 x 25.4 x 0.8 - 3		24	5	rib	black	6
RLiR-5978	50 x 10 x 0.75 - 2		11.5	3.5	rib	black	2
RLiR-5980	50 x 20 x 1 - 3		14	5	rib	black	5
RLiR-5981	50 x 25 x 1.25 - 3	2" x 1" x 18/10g	16	6	rib	black	10
RLiR-5981G	50 x 25 x 0.8 - 3		15	5	rib	grey	6
RLiR-5981W	50 x 25 x 0.8 - 3		15	5	rib	white	6
RLiR-5982	50 x 30 x 1 - 3		14.5	5	rib	black	6
RLiR-5979	50 x 30 x 2.6 - 3.2		20	7	rib	black	6
RLiR-5954	50 x 40 x 0.8 - 3		15	3	rib	black	11
RLiR-5973	50.8 x 25.4 x 1 - 3	2" x 1" x 20/10g	14.5	5	rib	black	8
RLiR-5960	57 x 35 x 1.6 - 3.5		15	5	plain	black	10
RLiR-2992	60 x 20 x 1.6		12.8	4.8	plain	black	7
RLiR-5939	60 x 40 x 1 - 3		14.5	5	rib	black	20
RLiR-5984	60 x 40 x 3.2 - 4		20	7.5	rib	black	20
RLiR-5955	60 x 50 x 1.6 - 3.5		14.5	5	rib	black	15
RLiR-5967	63.5 x 38.1 x 1.2 - 3.5	2 1/2" x 1 1/2" x 18/10g	14.5	5	rib	black	12
RLiR-2864	63.5 x 38.1 x 3	2 1/2" x 1 1/2" x 10g	18.3	9.5	plain	black	30
RLiP-5956	64 x 38 x 1.6		14.5	5	plain	black	15
RLiR-5968	65 x 16 x 1.2 - 1.4		14.5	5	plain	black	8
RLiR-5983	65 x 35 x 1 - 3		15.5	5	rib	black	10
RLiR-5957	70 x 50 x 2 - 4		14.5	5	rib	black	17
RLiR-5985	75 x 25 x 1 - 3		14.5	5	rib	black	10
RLPi-2865	75 x 38 x 3	3" x 1 1/2" x 10g	21	8.5	plain	black	30
RLiR-5986	75 x 50 x 1.6 - 4		20.5	5	rib	black	15
RLiR-5958	76.2 x 25.4 x 1.6 - 3.5	3" x 2" x 16/10g	14.5	5	rib	black	11
RLiR-2701	76.2 x 38.1 x 1.2 - 3.5	3" x 1 1/2" x 18/10g	14.5	3	rib	black	14
RLiR-5974	76.2 x 50.8 x 2.5 - 4.5	3" x 2" x 12/8g	14.5	5	rib	black	17
RLiR-5989	80 x 40 x 1 - 3		15	5	rib	black	15
RLiR-5988	80 x 40 x 3 - 5		25	5	rib	black	35
RLiR-5990	80 x 50 x 2 - 4		18	5	rib	black	22
RLiP-6000	90 x 38 x 2		24	5	plain	black	19
RLiR-5992	100 x 25 x 1.6 - 3		14.5	5	rib	black	12
RLiR-5993	100 x 50 x 1.6 - 4		20	6.5	rib	black	38
RLiR-5994	100 x 50 x 1.6 - 4.5		24	5	rib	black	28
RLiR-5994W	100 x 50 x 1.6 - 4.5		24	5	rib	white	28
RLiR-5994G	100 x 50 x 1.6 - 4.5		24	5	rib	grey	28
RLiR-5995	100 x 50 x 3.2 - 5		25	6	rib	black	37
RLiR-5996	125 x 75 x 2 - 5		24	6	rib	black	50
RLiR-5997	150 x 50 x 2 - 4		28	8	rib	black	63
RLiR-5969	150 x 50 x 4 - 7		21.5	6	rib	black	125
RLiR-5958	150 x 100 x 1.6 - 4.5		24.5	6	rib	black	74
RLiR-5998	150 x 100 x 3 - 5.5		27.5	7	rib	black	127

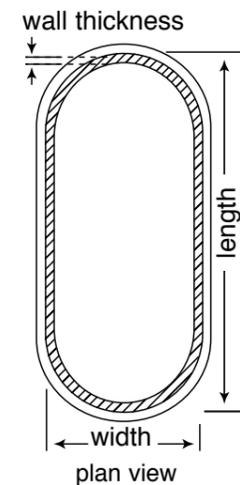
OBLONG (flat sided oval)

RORi-6005	30.8 x 15.4 x 1 - 2.5		11.5	5	rib	black	3
RORi-6006	35 x 16 x 1.2 - 1.6		11.5	5.5	rib	black	3
RORi-6007	48 x 19 x 1.2 - 1.6		11.5	5	rib	black	5
RORi-6013	59 x 30 x 1.6 - 2		13	5	rib	black	7
ROPi-6011	97 x 42 x 2 - 2.5		20	5	plain	black	28
ROPi-6009	115 x 42 x 2 - 5		20	5	plain	black	37
ROPi-6008	120 x 48 x 2		20	5	plain	black	45



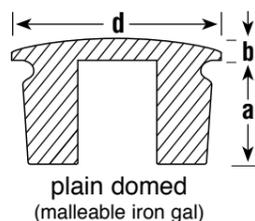
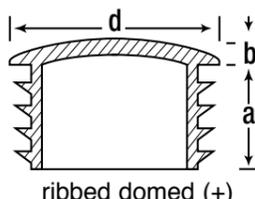
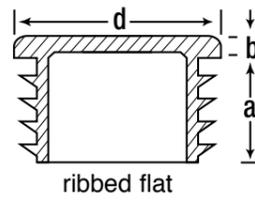
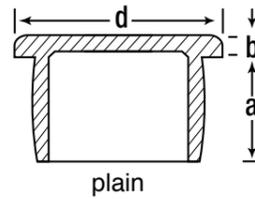
MATERIAL:
polyethylene (PE)
or Nylon

COLOURS:
black
white(RAL9003)
grey(A RAL7042)



ROUND tube inserts

PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (inches)	Shank length a (mm)	Head b (mm)	Ribbed or Plain	Stock colour	Weight (grams)
RTRi-5504	10 x 0.8 - 1.6		11.5	4	rib	black	1
RTPi-2432	12.7 x 1	1/2" x 20g	8.8	2.5	plain	black	1
RTPi-2112	16 x 1.6	5/8" x 16g	12	4	plain	black	1
RTRi-5521	16 x 0.8 - 2		11.5	5	rib	black	1
RTRi-5522	19 x 0.8 - 2	3/4" x 20/14g	12.8	5.8	rib	black	1
RTRi-5523	20 x 0.8 - 2		11.5	5	rib	black	2
RTRi-5524	22 x 0.8 - 3	7/8" x 20/14g	11.5	5	rib	black	2
RTRi-5506	25 x 1 - 3		11.5	5	rib	black	3
RTRi-5506W	25 x 1 - 3		11.5	5	rib	white	3
RTRi-5506G	25 x 1 - 3		11.5	5	rib	grey	3
RTRi-5539	25 x 1.25 - 1.6		13	6	rib	black	2
RTRi-5539GD	25 x 1.25 - 1.6		13	6	rib	dark grey	2
RTRi-5503	25.4 x 1.2 - 3.2	1" x 20/12g	11.5	5	rib	black	3
RTRi-5505	27 x 0.8 - 3	20 nbi (26.9mm)	11.5	5	rib	black	3
RTRi-5509	30 x 0.8 - 3		11.5	5	rib	black	3
RTRi-5508	32 x 0.8 - 3	1 1/4" x 20/14g	11.5	5	rib	black	4
RTRi-5508W	32 x 0.8 - 3	1 1/4" x 20/14g	11.5	5	rib	white	4
RTRi-5508G	32 x 0.8 - 3	1 1/4" x 20/14g	11.5	5	rib	grey	4
RTRi-5510	32 x 2.5 - 5	1 1/4" x 20/14g	11.5	5	rib	black	4
RTRi-5577	33.7 x 1 - 3		11	5	rib	black	5
RTRi-5578	33.7 x 2.6 - 4 (+)	25nbi	15	5.5	rib	black	6
RTRi-5578GD	33.7 x 2.6 - 4 (+)	25nbi	15	5.5	rib	dark grey	6
RTRi-5507	38 x 1 - 3	11/2" x 20/14g	11.5	5	rib	black	4
RTRi-5507W	38 x 1 - 3	11/2" x 20/14g	11.5	5	rib	white	4
RTRi-5507G	38 x 1 - 3	11/2" x 20/14g	11.5	5	rib	grey	4
RTRi-5575	40 x 1 - 3		11.5	5	rib	black	4
RTRi-5579	42 x 0.8 - 2.5		11	5	rib	black	4
RTRi-5580	42.4 x 2.6 - 4 (+)	32nbi	17.5	7.5	rib	black	7
RTRi-5580GD	42.4 x 2.6 - 4 (+)	32nbi	17.5	7.5	rib	dark grey	7
RTRi-5576	45 x 0.8 - 3		11.5	5	rib	black	5
RTRi-5581	48.3 x 1.2 - 3.6		11	5	rib	black	6
RPMi-5573	48.3 x 3.2	40nbi	22	6	plain	gal silver	150
RTRi-5582	48.3 x 3.2 - 5 (+)	40nbi	19	8	rib	black	15
RTRi-5582GD	48.3 x 3.2 - 5 (+)	40nbi	19	8	rib	dark grey	15
RTRi-5515	50 x 1 - 2.5		11.5	5	rib	black	6
RTRi-5515W	50 x 1 - 2.5		11.5	5	rib	white	6
RTRi-5515G	50 x 1 - 2.5		11.5	5	rib	grey	6
RTRi-5518	50 x 2.5 - 4.5		11.5	5	rib	black	7
RTRi-5516	50.8 x 1.2 - 3	2" x 20/10g	11.5	5	rib	black	10
RTRi-5517	50.8 x 2 - 3.2	2" x 10/14g	15	6	rib	black	13
RTRi-5585	60 x 1.6 - 3		18	4	rib	black	16
RPMi-5574	60.3 x 3.2	50nbi	25	6	plain	gal silver	240
RTRi-5584	60.3 x 3.2 - 5 (+)	50nbi	20.5	10	rib	black	24
RTRi-5584GD	60.3 x 3.2 - 5 (+)	50nbi	20.5	10	rib	dark grey	24
RTRi-5583	63.5 x 1.6 - 3.5	2 1/2" x 16/12g	20	7	rib	black	22
RTRi-5603	75 x 1 - 3.5		21.5	6	rib	black	25
RTRi-5587	76.2 x 1.6 - 4	3" x 16/8g	22	6	rib	black	27
RTRi-5586	76.2 x 3.2 - 5 (+)	65nbi	22	13	rib	black	39
RTRi-5590	80 x 1.6 - 3		20	4	rib	black	25
RTRi-5591	88.9 x 1.8 - 4	80nbi	22	4	rib	black	34
RTRi-5600	90 x 2.5 - 5		19	5	rib	black	35
RTRi-5601	95 x 1.6 - 4		21	6	rib	black	39
RTRi-5589	100 x 2 - 4.5		34	6	rib	black	44
RTRi-5607	101.6 x 3.6 - 6	90nbi	28	6	rib	black	49
RTRi-5602	102 x 1.6 - 4		21	6	rib	black	46
RTRi-5588	114.3 x 3.2 - 5.5	100nbi	28	6	rib	black	56
RTRi-5595	120 x 2 - 4		28	6	rib	black	63
RTRi-5596	125 x 2 - 6		34	6	rib	black	72
RTRi-5597	130 x 2 - 6		34	6	rib	black	75
RTRi-5599	133 x 2 - 6		34	6	rib	black	78
RTRi-5592	139.7 x 2 - 6.5	125nbi	34	6	rib	black	86
RTRi-5593	150 x 2 - 7		34	6	rib	black	90
RTRi-5598	165.1 x 3.2 - 7.5	150nbi	34	6	rib	black	120
RTRi-5594	168.3 x 2 - 6.5		34	6	rib	black	125



MATERIAL:
polyethylene (PE)
5573 & 5574 =
malleable iron galvanised

COLOURS:
black
white(RAL9003)
grey(RAL7042)
dark grey(RAL7015)



ROUND tube inserts

ROUND tube inserts

ROUND dome head or chrome top inserts

PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D x wall thickness d (inches)	Shank length a (mm)	Head b (mm)	Weight (grams)
ROUND ribbed tube inserts with hemisphere head					
RBiR-2390	16 x 1 - 2	5/8" x 19/14g	12	7.5	2
RBiR-2391	18 x 1 - 2		12	8	2
RBiR-2396	19 x 1.2 - 2	3/4" x 18/14g	14	9.5	4
RBiR-2411	19 x 1.2 - 1.6	3/4" x 18/16g	15	10	4
RBiR-2392	20 x 1 - 2		15.5	9.5	4
RBiR-2393	22 x 1 - 2		15.5	10.5	4
RBiR-2412	22 x 1.2 - 1.6	7/8" x 18/16g	15	11	5
RBiR-2394	25 x 1 - 2		15.5	10.5	5
RCBi-2415	25 x 1 - 2 head, chrome plated metal		15	12	7
RBiR-2413	25.4 x 1.2 - 1.6	1" x 18/16g	16	13	8
RBiR-2395	32 x 1 - 2	1 1/4" x 19/14g	19.5	15.5	8
RBiR-2402	33.7 x 3.25	25nbi - 10g	20	17	12
RBiR-2406	35 x 1 - 2		19.5	16.5	10
RBiR-2397	42 x 1.6 - 2.5		30	21	18
RBiR-2403	42.3 x 3.25	32 nbi - 10g	25	21	18
RBiR-2398	48.3 x 1.6 - 2.5	40 nbi - 16/12g	30	24	21
RBiR-2410	48.3 x 3 - 5	40 nbi - 10g	30	24	23
RBiR-2399	50. x 1.6 - 2.5		30	25	27
RBiR-2400	50.8 x 1.2 - 2.5	2" x 18/14g	25.5	30	27
RBiR-2407	60 x 1.6 - 2.5		40	30	41
RBiR-2405	60.3 x 3.65	50 nbi - 9g	25	30	32
RBiR-2401	63.5 x 1.6 - 2.5	2 1/2" x 18/14g	32	40	42
RBiR-2408	76.2 x 2 - 3.5	3" x 14/10g	40	39	62

Material: polyethylene (PE)

ROUND ribbed tube inserts with chromed metal cap

RCiR-5563	16 x 1 - 1.6	5/8" x 19/16g	10	3	2
RCiR-5564	19 x 1 - 2	3/4" x 19/14g	9	3	4
RCiR-5562	20 x 1 - 1.6		10	3	3
RCiR-5561	22 x 1 - 1.6	7/8" x 19/16g	11	3	3
RCiR-5565	25 x 1 - 2 and 25.4 x 1.6(1" x 16g)		13	3	5
RCiR-5569	30 x 1 - 1.6		16	3	6
RCiR-5570	35 x 1 - 1.6		16	3	8
RCiR-5566	32 x 1 - 2	1 1/4" x 19/14g	13	3	8
RCiR-5567	38 x 1 - 2	1 1/2" x 19/14g	13	3	10
RCiR-5568	50 x 1.6		13	2	12
RCiR-5571	50 x 2		12	2	11
RCiR-5572	60 x 2		12	2	14

Material: polyethylene (PE) & chromed metal

SQUARE ribbed tube inserts with chrome metal cap

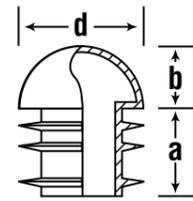
SCiR-5937	16 x 16 x 1.6 - 2		9	2	1
SCiR-5938	20 x 20 x 1.6 - 2		9	2	2
SCiR-5940	25 x 25 x 1 - 2		10	2	4
SCiR-5943	30 x 30 x 1 - 2		10	3	6
SCiR-5944	35 x 35 x 1.6 - 2		12	3	10
SCiR-5941	40 x 40 x 1 - 2		12	3	14

Material: polyethylene (PE) & chromed metal

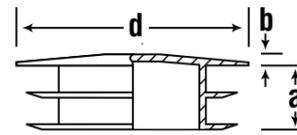
SQUARE plain tube inserts with chromed cap

SCiP-5942	50 x 50 x 1.6		11	5	14
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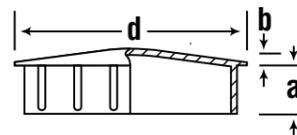
Material: chromed ABS



hemisphere head ribbed insert



chromed metal cap ribbed insert



plain chromed insert



STEEL tube inserts

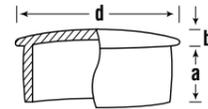
PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (inches)	Shank length a (mm)	Head thickness b (mm)	Profiles	Insert type	Weight (grams)
ROUND tube inserts mild steel "raw finish"							
RSSE-3000	12.7 x 1.2-1.6	1/2" x 18/16g	8	2	K	spring	0.5
RSSE-3001	16 x 1.2-1.6	5/8" x 18/16g	10	3	K	spring	1
RSSE-2993	16 x 1.2-1.6	5/8" x 18/16g	10	1.5	K	spring	1.5
RSSE-2994	19 x 1.2-1.6	3/4" x 18/16g	10	1.5	K	spring	2
RSSE-3002	19 x 1.2-1.6	3/4" x 18/16g	12	3	K	spring	2
RSTE-3012	19 x 1.6	3/4" x 16g	20.5	8	L	plain	15
RSTE-3017	20 x 1.2		10	2	J	plain	6
RSTE-3019	22 x 1.2	7/8" x 18g	9	3	J	plain	6
RSiP-3011	22 x 1.6	7/8" x 16g	9	3	J	plain	7
RSSE-3003	22 x 1.2-1.6	7/8" x 18/16g	7	3	K	spring	3
RSTE-3020	22 x 1.6	7/8" x 16g	21	8.8	L	plain	20
RSTE-3018	25 x 1.2		9	3	J	plain	8
RSiP-3013	25 x 1.6		9	3.5	J	plain	8
RSSE-3004	25.4 x 1.2-1.6	1" x 18/16g	12	4	K	spring	5
RSTE-3028	25.4 x 1.6	1" x 16g	20.5	9.5	L	plain	23
RSiP-3014	30 x 1.6		8	4	J	plain	12
RSSE-3005	32 x 1.2-1.6	1 1/4" x 18/16g	10	3	K	spring	7
RSTE-3021	32 x 1.2	1 1/4" x 18g	8	3	J	plain	11
RSiP-3015	32 x 1.6	1 1/4" x 16g	8	3	J	plain	12
RSiP-3016	35 x 1.6		9	3	J	plain	14
RSSE-3006	38 x 1.2-1.6	1 1/2" x 18/16g	10	4	K	spring	9
RSSE-3007	50.8 x 1.2-1.6	2" x 18/16g	3	7	K	spring	12

ROUND tube inserts, flat head stainless steel 316 grade							
RFIS-3030	25.4 x 1.6-2	1" x 16/14g	12.7	2.5	SS2	plain	20
RFIS-3031	32 x 1.6-2	1 1/4" x 16/14g	16.5	2.5	SS2	plain	30
RFIS-3032	33.7 x 1.6-2	25nbi light	28	2	SS2	plain	35
RFIS-3033	38 x 1.6-2	1 1/2" x 16/14g	24	3.5	SS2	plain	39
RFIS-3034	40 x 1.6-2		31	2.5	SS2	plain	40
RFIS-3035	42.4 x 1.6-2	32nbi light	33	3	SS2	plain	45
RFIS-3036	48.3 x 1.6-2	40nbi light	24	3	SS2	plain	52
RFIS-3037	50.8 x 1.6-2	2" x 16/14g	25	4	SS2	plain	64

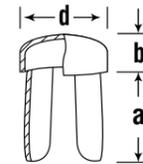
ROUND tube inserts, dome head stainless steel 316 grade							
RDIS-3040	16 x 1.2-2	5/8" x 18/14g	15	3.3	SS1	knock-in	3
RDIS-3041	20 x 1.2-2		17	3.5	SS1	knock-in	5
RDIS-3042	25.4 x 0.6-1.6	1" x 20/16g	10	5	SS1	knock-in	7
RDIS-3043	30 x 1.6-2.8		23.5	6.8	SS1	knock-in	10
RDIS-3044	32 x 0.7-1.6	1 1/4" x 20/16g	10	5.5	SS1	knock-in	11
RDIS-3045	33.7 x 1.6-2.8	25nbi light	23.5	7.1	SS1	knock-in	13
RDIS-3046	38 x 0.8-2	1 1/2" x 20/14g	12	7	SS1	knock-in	15
RDIS-3047	40 x 1.6-3		25.4	8.2	SS1	knock-in	17
RDIS-3048	42.4 x 1.6-3	32nbi light	25	8.3	SS1	knock-in	20
RDIS-3049	48.3 x 1.6-3	40nbi light	26.5	10	SS1	knock-in	23
RDIS-3050	50.8 x 0.9-2	2" x 20/14g	15	9	SS1	knock-in	25
RDIS-3051	60.3 x 1.6-3	50nbi light	26.5	11	SS1	knock-in	30

SQUARE tube inserts "raw finish"							
SSTE-3066	19 x 19 x 1.6	3/4" x 3/4" x 16g	18.5	8	M	plain	14
SSTE-3070	22 x 22 x 1.6	7/8" x 7/8" x 16g	17.5	8.8	M	plain	20
SSTE-3074	25.4 x 25.4 x 1.6 and 25 x 25 x 1.6	1" x 1" x 16g	13.5	9.5	M	plain	23

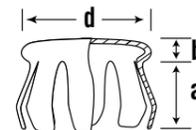
SQUARE tube inserts, flat head stainless steel 316 grade							
SDiS-3075	25.4 x 25.4 x 1.6	1" x 1" x 16g	20	3	SS2	plain	45
SDiS-3076	30 x 30 x 1.6		22	3	SS2	plain	70
SDiS-3077	50.8 x 50.8 x 2	2" x 2" x 14g	31	3.5	SS2	plain	150



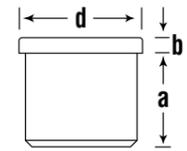
"J" type
plain mild steel



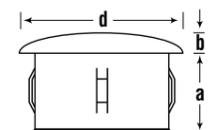
"L" type
plain mild steel



"K" type
spring steel

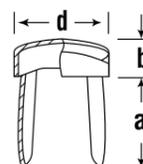


"SS2" type
Stainless steel



"SS1" type
Stainless steel

MATERIAL:
mild steel or spring steel in raw finish can be zinc plated, 316 grade stainless steel.
The round & square steel tube insert range are stocked in raw steel finish for self colouring so they can be fitted to tubular frames before finishing eg. by chrome plating, powder coating etc.



"M" type
plain mild steel



CHAIR & TABLE feet

PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (inches)	Shank length a (mm)	Head thickness e (mm)	Ribbed or Plain	Weight (grams)
ROUND tube inserts foot						
RTRi - 5504	10 x 0.8 - 1.6		12	4	rib	1
RTPi - 2111	12.7 x 1	1/2" x 20g	13	3	plain	1
RTRi - 5520	16 x 1.6	"hemisphere head"	13	4	rib	2
RTRi - 5521	16 x 0.8 - 2	5/8" x 16g	12	5	rib	1
RTRi - 5519	19 x 1.6	"hemisphere head"	13	4	rib	2
RTRi - 5522	19 x 0.8 - 2	3/4" x 20/14g	13	6	rib	1
RTRi - 5523	20 x 0.8 - 2		12	5	rib	2
RTRi - 5524	22 x 0.8 - 3	7/8" x 20/14g	12	5	rib	2
RTRi - 5506	25 x 1 - 3		12	5	rib	3
RTRi - 5540	25 & 25.4 x 1.6 - 2	"thick head"	30	8	rib	6
RTRi - 5503	25.4 x 1.2 - 3.2	1" x 20/12g	12	5	rib	3
RTRi - 5505	27 x 1 - 3	20 nbi (26.9mm)	12	5	rib	3
RTRi - 5550	28.6 x 1.6 - 2	"thick head"	31	8	rib	8
RTRi - 5509	30 x 0.8 - 2.5		12	5	rib	3
RTRi - 5508	32 x 0.8 - 2.5	1 3/4" x 20/14g	12	5	rib	4
RTRi - 5560	32 x 1.6 - 2	"thick head"	32	16	rib	17
RTRi - 5577	33.7 x 1 - 3	25 nbi	11	5	rib	5
RTRi - 5507	38 x 1 - 2	1 1/2" x 20/18g	12	5	rib	4
RTRi - 5575	40 x 1 - 3		12	5	rib	4
RTRi - 5515	50 x 1 - 2.5		12	5	rib	6
RTRi - 5516	50.8 x 1 - 2	2" x 20/14g	12	5	rib	10

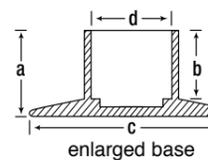
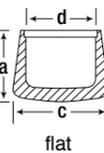
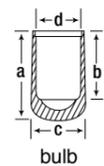
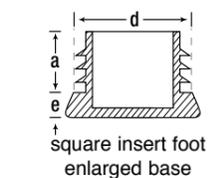
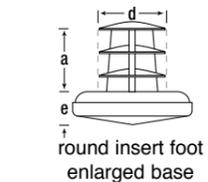
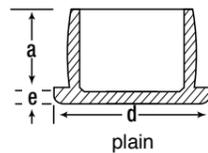
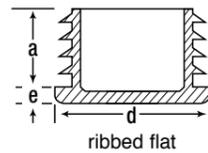
PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (inches)	Shank length a (mm)	Head thickness e (mm)	Ribbed or Plain	Weight (grams)
ROUND tube insert foot-enlarged base						
REiB - 5541	19 x 1.6 or 20 x 2	3/4" x 16g	16	9x29od	rib	5
REiB - 5542	22 x 1.6	7/8" x 16g	21	9x34od	rib	10
REiB - 5543	25 x 1.6		29	10x36od	plain	11

PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (inches)	Shank length a (mm)	Head thickness e (mm)	Ribbed or Plain	Weight (grams)
SQUARE tube insert foot-enlarged base						
SEiB - 5551	20 x 20 - 1.6		16	6.5,27x27	plain	6
SEiB - 5552	25 x 25 - 1 - 2	1" x 1" 16g	12	6.5,30x30	rib	6

PART NUMBER	TUBE O/D metric d (mm)	TUBE O/D imperial d (mm)	Base profile	Base dia C (mm)	Overall height a (mm)	Internal depth b (mm)	Weight (grams)
ROUND foot caps(outside fitting)							
OSRC - 2115	5			8	8	6	1
OSRC - 2116	6		flat	10	9	7	1
OSRC - 2100	8	5/16"	flat	18	15	12	1
OSTC - 2106	9.5	3/8"	bulb	22	18	15	1
OSRC - 2118	10		flat	16	12	10	2
OSRC - 2101	11	7/16"	flat	18	14	11	1
OSRC - 2102	12.5 & 12.7	1/2"	flat	13	16	12	1
OSRC - 2107	12.5 & 12.7	1/2"	bulb	34	25	21	2
OSRC - 2103	16	5/8"	flat	16	19	13	1
OSRC - 2108	16	5/8"	bulb	26	21	19	2
OSRC - 2104	19	3/4"	flat	19	23	15	1
OSRC - 2117	22		flat	23	23	17	3
OSRC - 2060	25 & 25.4	1"	flat	25	29	20	8
OSRC - 2119	28		flat	32	25	22	10
OSRC - 2120	30		domeflat	34	32	25	9
OSRC - 2067	32 & 31.75	1 1/4"	flat	37	32	25	10
OSRC - 2068	33.7 - 34		domeflat	38	32	25	9
OSRC - 2121	35		domeflat	39	32	25	11
OSRC - 2122	38	1 1/2"	domeflat	43	33	24	11
OSRC - 2069	42		domeflat	46	33	24	13
OSRC - 2078	48.5	1 29/32"	flat	54	51	41	23
OSRC - 2123	50		domeflat	53	34	27	17
OSRC - 2079	50.8	2"	flat	53	34	27	17
OSRC - 2082	60.3	2 3/8"	flat	65	31	25	22
OSRC - 2124	75		domeflat	80	41	28	42
OSRC - 2086	76.2	3"	flat	80	33	28	27
OSRC - 2089	88.9	3 1/2"	flat	93	35	30	33
OSRC - 2092	101.6	4"	flat	106	37	30	45
OSRC - 2093	114.3	4 1/2"	flat	120	37	32	65

PART NUMBER	TUBE O/D metric d (mm)	TUBE O/D imperial d (mm)	Base profile	Base dia C (mm)	Overall height a (mm)	Internal depth b (mm)	Weight (grams)
ROUND foot caps (outside fitting) -enlarged base							
ROCE - 2037	22		enlarged	50	22	18	7
ROCE - 2038	25		enlarged	50	22	18	4

Material: all PE (polyethylene) except #'s 2068 & 2069 = PVC



also see next page

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www.tubeinserts.com.au

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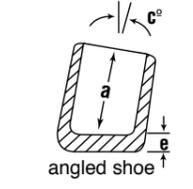
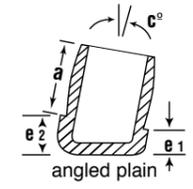
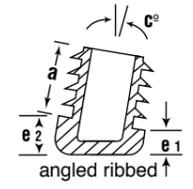
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CHAIR & TABLE feet - angled or tilting

PART NUMBER	TUBE O/D x wall thickness metric	TUBE O/D x wall thickness imperial	Shank length a (mm)	Angle of incline C (degree)	Head b1 to b2 (mm)	Ribbed or Plain	Weight (grams)
ROUND tube angled foot inserts							
RPAi - 2020	16 x 1.4	5/8" x 17g	14	17.5°	6 - 11	plain	1
RPAi - 2021	16 x 1.6	5/8" x 16g	14	15°	5 - 9	plain	1
RAi - 2013	18		19	12°	5 - 8.5	rib	2
RAi - 2012	18 x 1.6 - 2		19	15°	5 - 9	rib	2
RAi - 2014	18		19	21°	5 - 9	rib	3
RPAi - 2019	19 x 1.25	3/4" x 18g	16	17.5°	6 - 13.5	plain	3
RPAi - 2018	19 x 1.6	3/4" x 16g	16	17.5°	6 - 13.5	plain	3
RPAi - 2017	19 x 1.6	3/4" x 16g	16	17.5°	4 - 12	plain	3
RPA - 2016	19 x 2	3/4" x 14g	16	17.5°	5.5 - 11	plain	2
RPAi - 2015	22 x 1.4	7/8" x 17g	16	28°	5.5 - 16	plain	5
RAi - 2022	20 x 1.6 - 2		20	9°	5 - 8	rib	3
RAi - 2023	20 x 1.6 - 2		20	12°	5 - 9	rib	3
RAi - 2024	20 x 1.6 - 2		20	15°	5 - 10	rib	2
RAi - 2025	20 x 1.6 - 2		20	18°	5 - 11.5	rib	3
RAi - 2026	22 x 1.6 - 2	7/8" x 16/14g	20	9°	5 - 8	rib	2
RAi - 2027	22 x 1.6 - 2	7/8" x 16/14g	20	12°	5 - 9	ri	2
RAi - 2028	22 x 1.6 - 2	7/8" x 16/14g	20	15°	5 - 10	rib	4
RAi - 2029	22 x 1.6 - 2	7/8" x 16/14g	20	18°	5 - 11.5	rib	4
RAi - 2030	25 x 1.6 - 2		20	9°	5 - 9	rib	4
RAi - 2031	25 x 1.6 - 2		20	12°	5 - 10	rib	3
RAi - 2032	25 x 1.6 - 2		20	15°	5 - 11	rib	4
RAi - 2033	25 x 1.6 - 2		20	18°	5 - 12	rib	6

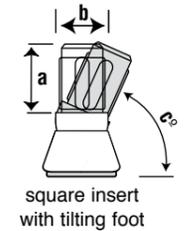
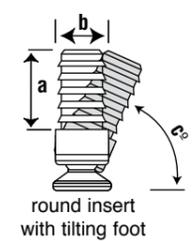
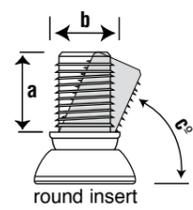


PART NUMBER	TUBE O/D x wall thickness metric	TUBE O/D x wall thickness imperial	Shank length a (mm)	Angle of incline C (degree)	Head b1 to b2 (mm)	Ribbed or Plain	Weight (grams)
ROUND tube angled foot caps(outside fitting)							
RAOC-2035	16 x 1.6	5/8" x 16g	24 high	19°	3.5 thick	shoe	2
RAOC-2034	19	3/4"	24 high	9°	4.5 thick	shoe	2
RAOC-2036	19	3/4"	24 high	19°	4 thick	shoe	4

PART NUMBER	TUBE O/D x wall thickness metric	TUBE O/D x wall thickness imperial	Shank length a (mm)	Angle of incline C (degree)	Head b1 to b2 (mm)	Ribbed or Plain	Weight (grams)
SQUARE tube angled foot inserts							
SPAi-2040	16 x 16 x 1.6	5/8" x 5/8" x 16g	14.25	10°	4 - 10	plain	1
SQAi-2041	16 x 16 x 1 - 2		12	10°	4 - 7	rib	1
SQAi-2042	18 x 18 x 1 - 2		12	10°	5 - 8	rib	1
SPAi-2039	19 x 19 x 1.6	3/4" x 3/4" x 16g	15.5	17.5°	4 - 9	plain	3
SQAi-2043	20 x 20 x 1 - 2		12	10°	5 - 8	rib	2
SQAi-2045	25 x 25 x 1 - 2	1"x1"x16g	12	10°	5 - 8	rib	3

Material: all PE (polyethylene)

PART NUMBER	TUBE O/D x wall thickness metric	TUBE O/D x wall thickness imperial	Shank length a (mm)	Ribbed or Plain	Base o.d.	Base material	Angle of incline C (degree)	Shank material	Weight (grams)
ROUND tube inserts with tilting foot									
RTG - 4490	14 x 2	5/8" x 17g	17	rib	23	nylon	25° max.	PE	4
RTGC - 4483	14 x 2		17	rib	23	chrome steel PVC	25° max.	PE	6
RTG - 4491	16 x 2		25	rib	22	nylon	25° max.	PP & PA	5
RTG - 4492	18 x 2	5/8" x 17g	25	rib	22	nylon	25° max.	PP & PA	6
RTG - 4501	19 x 1.6 - 2	3/4" x 16/14g	25.4	rib	25	nylon	19 (-22)°	nylon	8
RTGS - 4470	19 x 1.6 - 2	3/4" x 16/14g	25.4	rib	25	stainless steel	19 (-22)°	PE	11
RTGS - 4497	19 x 1.6 - 2	3/4" x 16/14g non-slip base	24.5	rib	37	PVC(soft)	19 (-22)°	nylon	14
RTG - 4505	20 x 1.2 - 1.6		25.4	plain	25	nylon	19 (-22)°	nylon	6
RTGS - 4472	20 x 1.2 - 1.6		25.4	plain	25	stainless steel	19 (-22)°	PE	11
RTGL - 4496	20 x 1.2 - 1.6		25.4	plain	37	PVC(soft)	19 (-22)°	nylon	17
RTGS - 4471	20 x 1.6 - 2		25.4	rib	25	stainless steel	19 (-22)°	PE	8
RTG - 4504	20 x 1.6 - 2		25	rib	25	nylon	25° max.	nylon	7
RTGL - 4498	20 x 1.6 - 2		25.4	rib	37	PVC(soft)	19 (-22)°	nylon	14
RTG - 4506	22 x 1 - 1.6		25.4	rib	25	nylon	19 (-22)°	nylon	10
RTGS - 4473	22 x 1 - 1.6	7/8" x 20/16g	25.4	rib	25	stainless steel	19 (-22)°	PE	13
RTGS - 4474	22 x 1.6 - 2	7/8" x 20/16g	24.5	rib	25	stainless steel	19 (-22)°	PE	12
RTG - 4502	22 x 1.2 - 1.6	7/8" x 20/16g	25.4	rib	25	nylon	19 (-22)°	nylon	7
RTGL - 4499	22 x 1.2 - 1.6	7/8" x 16/14g non-slip base	25.4	rib	37	PVC(soft)	19 (-22)°	nylon	15
RTG - 4503	25 x 1.2 - 1.6 and 25.4 x 1.6(1"x16g)		25.4	rib	25	nylon	19 (-22)°	nylon	10
RTGL - 4500	25 x 1.6 - 2	1" x 16/14g non-slip base	25.4	rib	37	PVC(soft)	19 (-22)°	nylon	16
RTGS - 4475	25 x 1.6 - 2	1" x 16/14g	25.4	rib	25	stainless steel	19 (-22)°	PE	14



PART NUMBER	TUBE O/D x wall thickness metric	TUBE O/D x wall thickness imperial	Shank length a (mm)	Ribbed or Plain	Base o.d.	Base material	Angle of incline C (degree)	Shank material	Weight (grams)
SQUARE tube inserts with tilting foot									
STGS - 4479	20 x 20 x 1		25	plain	25	stainless steel	19 (-22)°	PE	13
STGS - 4484	20 x 20 x 1		20	plain	30	nylon	24° max.	PE	11
STGS - 4480	20 x 20 x 1.6		25	plain	25	stainless steel	19 (-22)°	PE	14
STTG - 4487	20 x 20 x 1.6		20	plain	25	nylon	24° max.	PE	11
STGS - 4481	20 x 20 x 2		25	plain	30	stainless steel	19 (-22)°	PE	16
STTG - 4486	20 x 20 x 2		20	plain	30	nylon	24° max.	PE	11
STGS - 4476	25 x 25 x 1.6	1" x 1" x 16g	20	rib	30	stainless steel	19 (-22)°	PE	17
STTG - 4485	25 x 25 x 1.6	1" x 1" x 16g	20	plain	30	nylon	24° max.	PE	13



CHAIR & TABLE feet - angled or tilting

CHAIR & TABLE feet - angled or tilting

TABLE base levelling feet

PART NUMBER	Thread length b (mm)	Base dia. C (mm)	Base height d (mm)	Maximum static load (kg)	Base profile edge b (mm)	Profile material	Weight (grams)
M8 thread, non-tilting							
RRAF-5250	15	37	13	100	scalloped	PE	16
RRAK-5205	17	28.5	10	250	knurled	nylon	16
RRAK-5206	17	50.5	12	250	knurled	nylon	31
RRAF-5251	25	23	10	150	radius	steel & PVC	23
RRAF-5202	25	25	16	100	P type	PP	14
RRAF-5203	25	38	16	100	P type	PP	19
RRAK-5216	27	30	7	250	serrated	nylon	18

M8 thread, felt base non-tilting							
FBRG-4507	20	34	12	100	rounded	felt	13

M8 thread, tilting							
TLF-5012	25	25	20	50	conical	PE	20
TLF-5010	25	40	20	100	conical	PE	28
TLF-5011	27	30	13	300	conical	PA + s/s	20

M10 thread, non-tilting							
RRAK-5212	16	25	7	250	serrated	nylon	18
RRAK-5213	16	30	7	250	serrated	nylon	20
RRAF-5298	20	80	15	250	N type	PE	54
RRAF-5207	25	30	11	250	R type	nylon	22
RRAF-5252	25	30	11	250	radius	steel & PVC	42
RRAK-5214	26	30	7	250	serrated	nylon	27
RRAF-5351	30	50	15	300	W type	nylon+metal	50

M10 thread, felt base non-tilting							
FBRG-4509	20	34	12	100	rounded	felt	18

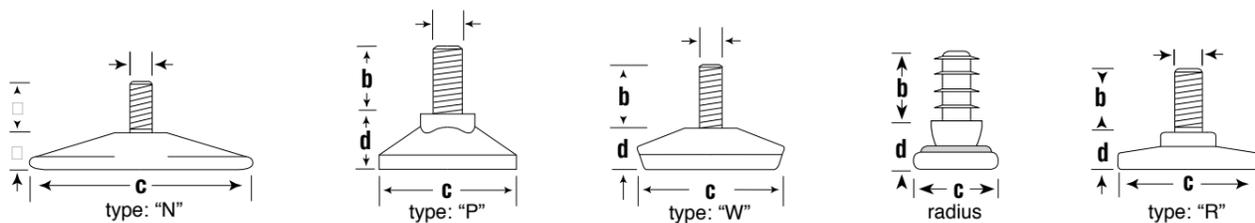
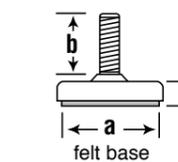
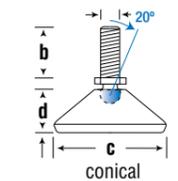
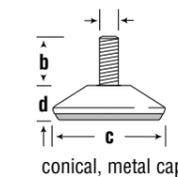
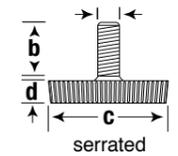
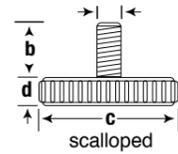
M10 thread, tilting							
TLF-5020	37.5	32.5	20	75	conical-flat	PE	34

MATERIALS: All threads are mild steel zinc plated, bases are PE or Nylon or PVC

PART NUMBER	Screw thread a (mm)	Height or length of nut b (mm)	Fits bore (hole i.d.) c (mm)	Flange or outside dia. d (mm)	Material thickness d (mm)	Weight (grams)
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THREADED insert / bush, knock-in type.						
RTiM-4055	M8	16	11	14	mild steel ZP, knurled	9
RTiM-4056	M8	18	11	19	mild steel ZP, ribbed	8
RTiM-4058	M10	12	12.5	18 x 2mm thick	mild steel ZP, knurled	6
RTiM-4059	M10	17	13	22.5	mild steel ZP, ribbed	11
RTiM-4060	M10	18	12.5	18 x 2mm thick	mild steel ZP, knurled	12

for use in 4 & 5 leg Nylon, alloy & aluminium bases to convert from castors to M8 or M10 levelling feet



GLIDES - inserts & saddles

PART NUMBER	Suits round tube o.d. (mm)	Base thickness d (mm)	Fixing hole i.d (mm)	Base size b (mm)	Profile type	Weight (grams)
SADDLE glides for round tube: <i>Screw on type</i>						
SGRT-2889	12	6	1 x 5.5	30 x 16	J	4
SGRT-2890	19 (3/4")	12.7	1 x 4.5	21.5 x 18	J	9
SGRT-2891	22 (7/8")	4	1 x 6	22 od	J	7
SGRT-2892	22 (7/8")	8	2 x 5	34.5 x 22	M	11
SGRT-2893	19 - 22	7	2 x 5.2	53.5 x 20	M	8
SGRT-2894	22 - 25.4 (1")	7	1 x 5.5	50 x 23	J	7
SGRT-2895	28 - 30	8	2 x 5.2	45 x 25	M	8

SADDLE glides for curved round tube: <i>Screw-on type</i>						
RTCG-2935	20 - 22	8	1 x 5.5	43.5 R x 22	R	18
RTCG-2936	22 - 23.5	7	1 x 5.5	42.8 R x 23.5	R	22
RTCG-2937	23.5 - 5-25	6.5	1 x 5.5	42 R x 25	R	26

COLOUR: stocked in black, natural or uncoloured is available subject to min. quantity order.						
RADIUS SADDLE glides for round tube: <i>Screw-on type for cantilever chairs</i>						
RRSF-2872	25 or 1"(25.4)	8.3 to 38	2 x 3.5	72.5 x 25.5	R	18
RRSF-2873	25 or 1"(25.4)	8.3 to 30.3	2 x 3.5	71 x 30	Q	17
RRSF-2876	25 or 1"(25.4)	9 to 21.5	2 x 3.5	55 x 25	Q	16
RRSF-2877	30	8 to 27	1 x 3.5	76 x 28.3	Q	20
RRSF-2874	32 or 1 1/4"(31.75)	8.3 to 30	2 x 3.5	75 x 32.5	Q	20
RRSF-2875	38 or 1 1/2"(38.1)	8.3 to 30	2 x 3.5	75 x 30	Q	20

OPTIONS: felt base available subject to min. quantity order						
SADDLE glides for round tube: <i>Snap-on type</i>						
RTSF-2920	10	4.5		30 x 10	U	4 transparent
RTSF-2931	10	4	4.3	22 x 16	U	4 TPE
RTSF-2927	10 - 11	5		28 x 16.5	S	5
RTSF-2932	12	4	4.3	22 x 16	U	6 transparent
RTSF-2919	12	6		30 x 16	S	7 TPE
RTSF-2928	12 - 13	6		28 x 20	S	7
RTSF-2929	14 - 15	7		28 x 23	S	12
RTSF-2930	15 - 16	8		28 x 26	S	14
RTSF-2921	19 - 20	4.5		30 x 15	S	5
RTSF-2922	20 - 22	5		30 x 20	S	6
RTSF-2923	25 or 1"(25.4)	5		45 x 20	S	9
RTSF-2924	30	5		45 x 25	S	12
RTSF-2925	30 - 32 or (1 1/4")	5.5		45 x 30	S	15
RTSF-2926	35	4.5		45 x 30	S	16

SQUARE tube end insert glides						
SiG-2900	20 x 20 x 1.6 - 2	5	1 x 5	20 x 20	N	6
SiG-2901	25 x 25 x 1.6 - 2	5	1 x 5	28 x 25	N	7
	or 25.4 x 25.4 x 1.6 (1"x1"x16g)					
SiG-2902	30 x 30 x 1.6 - 2	5	1 x 5	33 x 30	N	11

RECTANGLE tube end insert glides						
REiG-2905	50 x 25 x 1.6 - 2	5	1 x 5	50 x 25	N	16.5

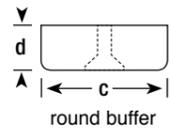
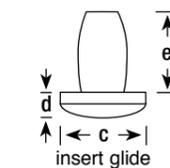
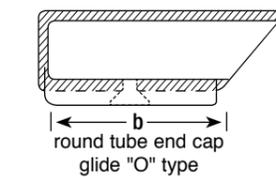
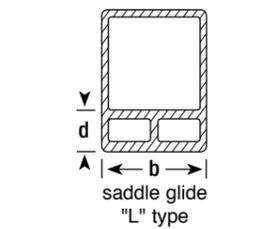
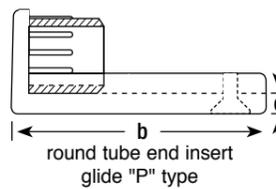
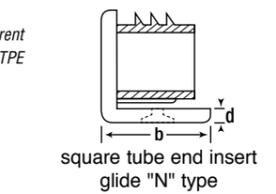
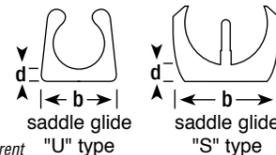
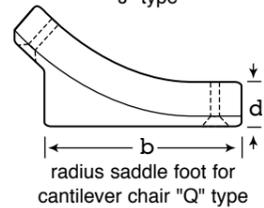
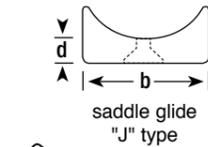
ROUND tube end insert glides						
ROiG-2910	25 x 2 or (1"x14g)	7.5	1 x 5.2	65.5 x 25	P	18
ROiG-2911	32 x 1.6 or (1 1/4"x16g)	8	1 x 5.2	52 x 32	P	22
ROiG-2912	38 x 2 or (1 1/2"x14g)	8	1 x 5.5	52 x 38	P	29

SQUARE tube end cap glide						
SEGC-2915	25 x 25	15	n/a	33 x 30	L	18

ROUND tube end cap glides						
REGC-2916	25 or 1"(25.4)	5.5	6	55 x 26	O	20
REGC-2917	32 or 1 1/4"(31.75)	6	6	45 x 24	O	20
REGC-2918	38 or 1 1/2"(38.1)	6	6	53 x 33	O	33

PART NUMBER	Base diameter C (mm)	Base thickness d (mm)	Shank length e (mm)	Suits bore hole (mm)	Weight (grams)
INSERT glides					
RiG-2880	15	5.5	14	10	1
RiG-2881	22	4.5	16	9.5	4
RiG-2882	28	5	16	11.7	6
RiG-2883	51	5	15.5	19	11

ROUND buffers					
RSB-2885	19	9	1 x 4.75		3
RSB-2886	25	10	1 x 5-6		4
RSB-2887	30	10	1 x 5-6		6
RSB-2888	40	10	1 x 6		10



MATERIAL: Nylon or PE
COLOURS: Black
White available subject to min. order quantity.



ROUND hole covers & Vents

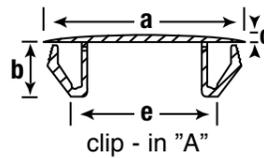
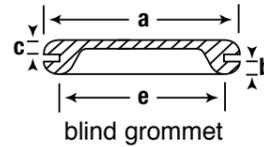
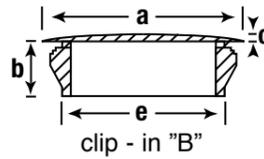
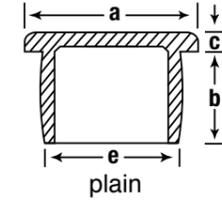
for closure of assembly holes in sheets, panels

Vents

& housing or unused bores

PART NUMBER	Hole diameter e (mm)(inch.)	Panel/sheet thickness d (mm)	Colour	Material	Type	Head diameter a (mm)	Head thickness c (mm)	Shank length b (mm)	Weight (grams)
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ROUND hole covers for closure of assembly holes in sheets, panels & housings or unused bores									
RHCW - 2476	4.7	0.8 - 3.2	white	Nylon66	clip-in	6.5	1.6	4.3	0.25
RRHC - 2510	6	1.6	black	rubber	blind grommet	9	1	5	0.5
RHCW - 2477	6.3	0.8 - 3.2	white	Nylon66	clip-in	8	1.6	6.3	0.3
RTPI - 2110	7.6	0.8 - 9.5	black	PE	plain insert	9.5	2.5	9.5	0.5
RHCW - 2478	8	0.8 - 3.2	white	Nylon66	clip-in	9.5	1.6	6.3	0.5
RRHC - 2511	8	1.6	black	rubber	blind grommet	11	1	5	0.5
RTPI - 2113	8	0.8 - 11	white	PE	plain insert	10	1	11.5	0.5
RHCW - 2479	9.5	0.8 - 3.2	white	Nylon66	clip-in	12	1.6	9	0.5
RTPI - 2109	10	0.8 - 11	white	PE	plain insert	15	1.6	11.5	1
RHC - 2501	9.5-11	0.8 - 3.2	black	Nylon	clip-in	16	1.6	12.6	0.5
RRHC - 2512	10	1.6	black	rubber	blind grommet	12	1.6	5	0.5
RTPI - 2111	10.8	0.8 - 12	black	PE	plain insert	12.7	2.5	12	0.5
RTPI - 2432	11	0.8 - 8.8	black	PE	plain insert	12.7	2.5	9	0.5
RHCW - 2480	12.7	0.8 - 3.2	white	Nylon66	clip-in	14.7	1.6	8.7	0.5
RHC - 2502	12.7-14.3	0.8 - 3.2	black	Nylon	clip-in	18.5	1.6	12	0.5
RRHC - 2513	13	1.6	black	rubber	blind grommet	17	2	6	0.8
RHC - 2503	15-17.5	0.8 - 3.2	black	Nylon	clip-in	21.5	1.6	12	0.8
RHCW - 2481	16	0.8 - 3.2	white	Nylon66	clip-in	18	1.6	8.7	0.8
RRHC - 2514	16	1.6	black	rubber	blind grommet	20	2	6	1
RHCW - 2482	17.4	0.8 - 3.2	white	Nylon66	clip-in	20	1.6	8.7	0.5
RHC - 2504	18.4-20.6	0.8 - 3.2	black	Nylon	clip-in	25	1.6	12	2
RRHC - 2515	19	1.6	black	rubber	blind grommet	25	2	6	2
RHCW - 2483	19	0.8 - 3.2	white	Nylon66	clip-in	23.4	1.6	9	1.5
RRHC - 2516	22	1.6	black	rubber	blind grommet	28	2.5	5	3
RHC - 2505	22-25.5	0.8 - 3.2	black	Nylon	clip-in	32.5	1.6	13	2
RHCW - 2484	22	0.8 - 3.2	white	Nylon66	clip-in	26	1.6	10	1.5
RRHC - 2517	25	1.6	black	rubber	blind grommet	31	3	8	3
RHCW - 2485	25.4	0.8 - 3.2	white	Nylon66	clip-in	30.6	1.6	10	2
RHCW - 2486	27.8-28.6	0.8 - 3.2	white	Nylon66	clip-in	31	1.6	10	2
RRHC - 2518	28	1.6	black	rubber	blind grommet	34	2.5	7	3
RHC - 2506	28-30	0.8 - 3.2	black	Nylon	clip-in	35	1.6	13	1
RHCW - 2487	31.7	0.8 - 3.2	white	Nylon66	clip-in	35	1.6	10	2
RRHC - 2519	32	1.6	black	rubber	blind grommet	37	2.5	7	4
RHC - 2507	35-38	0.8 - 3.2	black	Nylon	clip-in	43	1.6	13	2
RRHC - 2520	38	1.6	black	rubber	blind grommet	44	3	8	5
RHCW - 2488	38	0.8 - 3.2	white	Nylon66	clip-in	42.5	1.6	12.7	3
RHC - 2509	40	6	black	Nylon66	snap-fit	44	1.6	9	15
RRHC - 2521	44	1.6	black	rubber	blind grommet	57	4	9.5	14
RHC - 2508	45-47.5	0.8 - 3.2	black	Nylon	clip-in	52	1.6	13	5
RRHC - 2522	50	1.6	black	rubber	blind grommet	58	3	8	17
RHCW - 2489	50.8	0.8 - 3.2	white	Nylon66	clip-in	55	1.6	13	4



MATERIAL:
white "Clip-in":
POM(see glossary), free of halogens. Max. allowable temperature for use 105°C

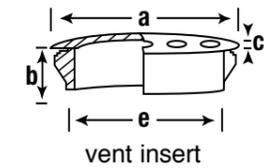
black "Clip-in": Nylon 6.6, free of halogens, Max. allowable temperature for use 105°C

blind grommets: 100% natural rubber plain inserts: PE(polyethylene)

COLOURS: Black
White(traffic white RAL9016)

PART NUMBER	Mounting hole dia. e (mm) inches	Panel/sheet thickness d (mm)	Number of vent holes	Vent holes diameter (mm)	Overall width a (mm)	Overall height c (mm)	Weight (grams)
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ROUND vent inserts allows the passage of air, heat and sound							
RVP - 2465	12.7 (1/2")	0.8 - 3.2	4	2.4	14.7	1.6	0.5
RVP - 2466	25.4 (1")	0.8 - 3.2	9	3.2	30.6	1.6	2
RVP - 2467	38.1 (1 1/2")	0.8 - 3.2	13	3.2	42.4	1.6	3
RVP - 2468	50.8 (2")	0.8 - 3.2	19	3.2	54.4	1.6	7



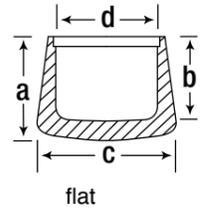
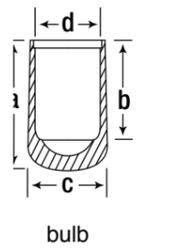
MATERIAL: Nylon 66
COLOURS: Black
White available subject to min. order quantity.



CAPS - round

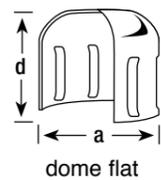
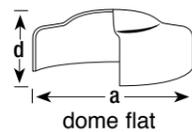
PART NUMBER	TUBE O/D x wall thickness d (mm)	TUBE O/D x wall thickness d (inches)	Stock colour	Base profile	Base diameter a (mm)	Overall height a (mm)	Internal depth a (mm)	Weight (grams)
ROUND plastic caps, external fitting								
OSRC-2115	5		black	flat	8	8	6	1
OSRC-2116	6		black	flat	10	9	7	1
OSRC-2116W	6		white	flat	10	9	7	1
OSTC-2105	6	1/4"	black	bulb	13	19	13	1
OSRC-2100	8	5/16"	black	flat	18	15	12	1
OSRC-2100W	8	5/16"	white	flat	12	10	9	1
OSTC-2106	9.5	3/8"	black	bulb	22	18	15	1
OSRC-2118	10		black	flat	16	12	10	2
OSRC-2118W	10		white	flat	16	12	10	2
OSRC-2101	11	7/16"	black	flat	18	14	11	1
OSRC-2102	12.5 & -12.7	1/2"	black	flat	13	16	10	1
OSRC-2102W	12.5 & -12.7	1/2"	white	flat	17	16	14	2
ORSC-2107	12.5 & -12.7	1/2"	black	bulb	34	25	21	2
OSRC-2103	16	5/8"	black	flat	16	19	13	1
OSRC-2103W	16	5/8"	white	flat	17	17	14	2
OSRC-2108	16	5/8"	black	bulb	26	21	19	2
OSRC-2104	19	3/4"	black	flat	19	23	15	1
OSRC-2104W	19	3/4"	white	flat	22	20	16	3
OSTC-2114	19	3/4"	black	bulb	24	30	22	4
OSRC-2117	22		black	flat	23	23	17	3
OSRC-2117W	22		white	flat	23	23	17	3
OSRC-2060	25 & 25.4	1"	black	flat	25	29	20	8
OSRC-2060W	25 & 25.4	1"	white	flat	28	22	18	9
OSRC-2060G	25 & 25.4	1"	grey	flat	28	22	18	9
OSRC-2119	28		black	flat	32	25	22	10
OSRC-2119W	28		white	flat	32	25	22	10
OSRC-2120	30		black	domeflat	34	32	25	9
OSRC-2067	32 & 31.75	1 1/4"	black	flat	37	32	25	10
OSRC-2067W	32 & 31.75	1 1/4"	white	flat	35	32	29	11
OSRC-2067G	32 & 31.75	1 1/4"	grey	flat	35	32	29	10
OSRC-2068	33.7 - 34	(25nbi)	black	domeflat	38	32	25	9
OSRC-2121	35		black	domeflat	39	32	25	11
OSRC-2122	38	1 1/2"	black	domeflat	43	33	24	11
OSRC-2122W	38	1 1/2"	white	domeflat	43	33	24	11
OSRC-2122G	38	1 1/2"	grey	domeflat	43	33	24	11
OSRC-2069	42		black	domeflat	46	33	24	13
OSRC-2078	48.5	1 29/32" (40nbi)	black	flat	54	51	41	23
OSRC-2123	50		black	domeflat	53	34	27	17
OSRC-2079	50.8	2"	black	flat	53	34	27	17
OSRC-2082	60.3	2 3/8" (50nbi)	black	flat	65	31	25	22
OSRC-2124	75		black	domeflat	80	41	28	42
OSRC-2086	76.2	3" (65nbi)	black	flat	80	33	28	27
OSRC-2089	88.9	3 1/2" (80nbi)	black	flat	93	35	30	33
OSRC-2092	101.6	4" (90nbi)	black	flat	106	37	30	45
OSRC-2093	114.3	4 1/2" (100nbi)	black	flat	120	37	32	65

PART NUMBER	TUBE O/D x wall thickness d (mm)	TUBE O/D x wall thickness d (inches)	Outer diameter a (mm)	Cap height a (mm)	Weight (grams)
ROUND metal caps, external fitting. All mild steel galvabond					
OSRC-2050		16	19	15	3
OSRC-2051		19	22	20	8
OSRC-2052	20nbi	26.9	31	22	26
OSRC-2053	25nbi	33.7	38.5	26	44
OSRC-2054	32nbi	42.4	47.5	32.5	73
OSRC-2055	40nbi	48.3	53.5	29	70
ORSC-2056	50nbi	60.3	65	31	100
OSRC-2057	65nbi	76.1	82	38	200
OSRC-2058	80nbi	88.9	95	40	225
OSRC-2059	90 nbi	101.6	105	40	256
OSRC-2094	100nbi	114.3	120	38	260
OSRC-2095	125nbi	139.7	145	42	370
OSRC-2096	150nbi	165.1	170	47	520

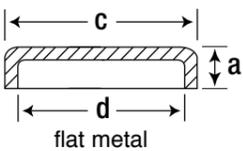
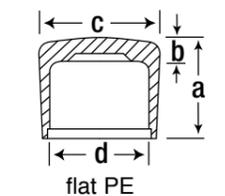
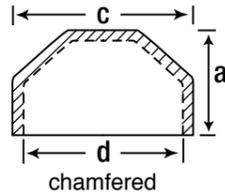


MATERIAL:
polyethylene,
polypropylene
& mild steel galvanized

COLOURS:
Black, mild steel
galvanized - grey/silver



CAPS - square and rectangle



MATERIAL:
polyethylene,
polypropylene,
mild steel galvanised

COLOURS:
Black, grey/silver

PART NUMBER	Tube size (mm)	Tube size (inches)	Top profile	Overall height a (mm)	Head thickness b (mm)	Overall width C (mm)	Weight (grams)
SQUARE plastic caps, external fitting caps, All PE							
OSSC-2353	16 x 16	5/8" x 5/8"	chamfered	19	3	19	3
OSSC-2356	19 x 19	3/4" x 3/4"	chamfered	21	4	22	4
OSSC-2357	20 x 20	tapered sides	flat	26	4	26	5
OSSC-2358	20 x 20	flat side	flat	26	2	24	6
OSSC-2359	22 x 22	7/8" x 7/8"	flat	28	3	26	6
OSSC-2362	25 x 25	tapered sides	flat	30	4	31	8
OSSC-2360	25.4 x 25.4	1" x 1"	chamfered	32	4	31	9
OSSC-2369	30 x 30	tapered sides	flat	35	4	38	15
OSSC-2371	40 x 40	flat side	flat	32	4	45	15
OSSC-2372	50 x 50	flat side	flat	40	5	54	25
OSSC-2385	50.8 x 50.8	2" x 2"	flat	31	5	55	19

PART NUMBER	Tube O/D (mm)	Top profile	Overall height a (mm)	Overall width C (mm)	Weight (grams)
SQUARE metal caps, external fitting, all mild steel galvabond					
OSSC-2363	25 x 25	chamfered	19	28	18
OSSC-2364	35 x 35	chamfered	25	38	32
OSSC-2365	40 x 40	chamfered	28	43	33
OSSC-2366	50 x 50	chamfered	27	53	53
OSSC-2367	60 x 60	chamfered	30	63	80
OSSC-2368	65 x 65	chamfered	31	68	87
OSSC-2370	75 x 75	chamfered	30	79	110
OSSC-2373	90 x 90	chamfered	33	94	190
OSSC-2374	90 x 90	flat	20	95	160
OSSC-2375	100 x 100	chamfered	33	104	230
OSSC-2376	100 x 100	flat	20	105	150
OSSC-2354	125 x 125	chamfered	35	130	288
OSSC-2355	150 x 150	chamfered	40	155	345

PART NUMBER	Tube O/D (mm)	Top profile	Overall height a (mm)	Overall width C (mm)	Weight (grams)
RECTANGLE metal caps, external fitting					
OSRC-2382	65 x 35	chamfered	33	68 x 39	50
OSRC-2383	75 x 50	chamfered	30	79.5 x 55	74
OSRC-2384	100 x 50	chamfered	35	105 x 55	90

CAPS - end protectors

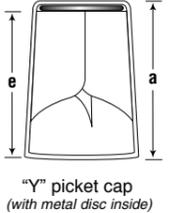
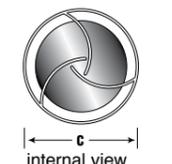
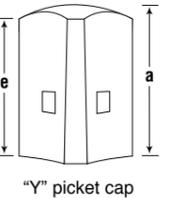
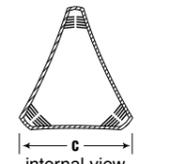
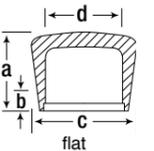


PART NUMBER	Size or tube O/D to fit inside cap (mm)	Profile description	Cap height a (mm)	Cap size or outer dia C (mm)	Internal depth e (mm)	Material	Colour	Weight (grams)
SCAFFOLD end protection caps								
OSRC-2061	48.3	fits over 40nbi pipe end	32	50	27	LDPE	yellow	17
OSRC-2077	12.5	for exposed clamp threads	27	15	20	LDPE	yellow	2
"Y" picket caps								
YPCY-2150	42 width x 47 length, max.	triangle shape outer	59	53 x 53 x 48	53	PE	yellow	2
RBCY-2151		3 stabilising fins inside	70	57	60	PE	yellow	34
RPCW-2152		round with outside clip	78	50 x 73	55	PE	white	45
RBCY-2153	32 wide x 24 long, max	round flat top, triangle sleeves under	52	58	48	PE	yellow	18
RBCY-2154		ZP metal disc inside top 3 internal stabilising fins inside	65	57mm base, to 51mm top	62	HDPE	yellow	35

PART NUMBER	Tube O/D (mm)	Top profile	Overall height a (mm)	Overall width C (mm)	Weight (grams)
REINFORCING bar end protection caps					
RBCY-2151	15mm od bar max.	3 internal stabilising fins inside	70	57.0	60
RBCY-2153	12mm od bar max.	round flat top, triangle sleeves under	52	58.0	48
RBCY-2154	25mm bar max.	ZP metal disc under 3 internal stabilising fins inside	65	57mm base, to 51mm top	62

PART NUMBER	Tube O/D (mm)	Top profile	Overall height a (mm)	Overall width C (mm)	Weight (grams)
ROUND tube caps and eyelets					
REPI-2134	33.7 (25nbi)	6.5mm id eyelet hole	29	42	22
REPI-2133	33.7 (25nbi)	6.5mm id eyelet hole	29	42	22
REPI-2136	42.4 (32 nbi)	6.5mm id eyelet hole	29	48	22
REPI-2137	42.4 (32 nbi)	6.5mm id eyelet hole	29	48	22
REPI-2142	50	6.5mm id eyelet hole	29	54	22
REPI-2143	50	6.5mm id eyelet hole	29	54	22
REPI-2144	60.3 (50 nbi)	6.5mm id eyelet hole	29	64.5	22
REPI-2145	60.3 (50 nbi)	6.5mm id eyelet hole	29	64.5	22

PART NUMBER	Tube O/D (mm)	Top profile	Overall height a (mm)	Overall width C (mm)	Weight (grams)
ANGLE iron cap or foot					
AiC-2170	25mm x 25mm x 1.6-2mm		11.5	9	9
AiC-2171	30mm x 30mm x 1-2.5mm		10	8	8
AiC-2172	40mm x 40mm x 1.6-3mm		12	9	9



MATERIAL:
polyethylene,
polypropylene,
mild steel galvanised

COLOURS:
Black, yellow and
moss-green

CAPS - hexagon nut protection

PART NUMBER	SW (width across flat)	To fit	Colour	Outside height a (mm)	Outside width b (mm)	Internal height for hex C (mm)	Internal width d (mm)	Weight (grams)
Hexagon nut dome cap								
RBNC-2527	7	M4	black	8.3	9	3.5	6.9	0.2
RBNC-2528	7	M4	white	8.3	9	3.5	6.9	0.2
RBNC-2529	7	M4	grey	8.3	9	3.5	6.9	0.2
RBNC-2530	8	M5	black	9.5	10.9	5	7.9	0.3
RBNC-2531	8	M5	white	9.5	10.9	5	7.9	0.3
RBNC-2532	8	M5	grey	9.5	10.9	5	7.9	0.3
RBNC-2533	10	M6	black	13	12.9	6	9.8	0.5
RBNC-2534	10	M6	white	13	12.9	6	9.8	0.5
RBNC-2535	10	M6	grey	13	12.9	6	9.8	0.5
RBNC-2536	13	M8	black	15	16.8	7.5	12.8	1
RBNC-2537	13	M8	white	15	16.8	7.5	12.8	1
RBNC-2538	13	M8	grey	15	16.8	7.5	12.8	1
RNBC-2557	16	M10	black	19.5	20	9	15.7	2
RBNC-2539	17	M10	black	19.5	21.3	9	16.7	2
RBNC-2540	17	M10	white	19.5	21.3	9	16.7	2
RBNC-2541	17	M10	grey	19.5	21.3	9	16.7	2
RNBC-2559	18	M12	black	20	23	9	17.7	2
RBNC-2542	19	M12	black	22	23.6	11	18.7	2
RBNC-2543	19	M12	white	22	23.6	11	18.7	2
RBNC-2544	19	M12	grey	22	23.6	11	18.7	2
RBNC-2545	22	M14	black	24	26.4	12.5	21.6	3
RBNC-2546	22	M14	white	24	26.4	12.5	21.6	3
RBNC-2547	22	M14	grey	24	26.4	12.5	21.6	3
RBNC-2548	24	M16	black	27	29.8	14	23.7	4
RBNC-2549	24	M16	white	27	29.8	14	23.7	4
RBNC-2550	24	M16	grey	27	29.8	14	23.7	4
RBNC-2551	30	M20	black	33.2	37.4	17	29.8	8
RBNC-2552	30	M20	white	33.2	37.4	17	29.8	8
RBNC-2553	30	M20	grey	33.2	37.4	17	29.8	8
RBNC-2554	36	M24	black	39.8	44	20	35.7	12
RBNC-2555	36	M24	white	39.8	44	20	35.7	12
RBNC-2556	36	M24	grey	39.8	44	20	35.7	12

larger sizes are available on request (ie M27 - M45). material: PE-LLD

Hexagon nut Snap-on cap

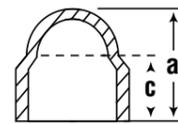
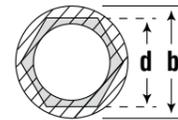
HSOC-2420	10	M6	black	14	15	13.5	11.6	0.5
HSOC-2421	13	M8	black	19	19	18.5	15.3	0.5
HSOC-2422	17	M10	black	25.5	24	25	19.6	3
HSOC-2423	19	M12	black	30.5	27	27.7	22.9	3
HSOC-2424	22	M14	black	33.5	31	33	25.9	5
HSOC-2425	24	M16	black	37.0	37	36.6	28.3	6
HSOC-2426	30	M20	black	47.5	41	47	34.5	11
HSOC-2427	36	M24	black	57.0	49	56.5	40.3	15

M5 is also available but not a stock item. material: PE-LLD

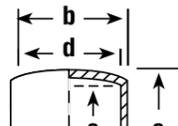
Hexagon nut cap for hose ends

HNFT-2315	14		black	27	19.6	26.3	14	0.5
HNFT-2316	17	M10	black	27	23.1	26.3	17	2
HNFT-2317	19	M12	black	27.6	25.2	27.1	19	2
HNFT-2318	22	M14	black	27.5	28.7	26.9	22	3
HNFT-2319	24	M16	black	29	30.5	28.5	24	4
HNFT-2320	27		black	28.8	34.5	28.2	27	3
HNFT-2321	30	M20	black	29	38	28.4	30	3
HNFT-2322	32		black	29	40.3	28.4	32	4
HNFT-2323	36	M24	black	30	44.9	28.3	36	4.5

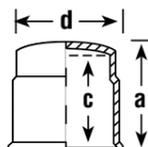
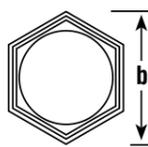
larger sizes are available on request (ie SW41, 50 & 60). material: PE-LLD



snap-on dome caps
RBNC series



snap-on caps
HSOC series



hose end caps
HNFT series

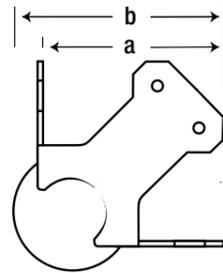


Hex nut snap-on caps
HSOC series

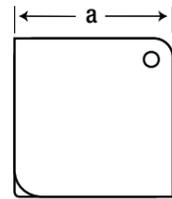


Hex nut cap for hose ends
HNFT series

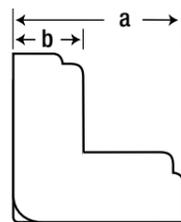
CAPS - corner protectors



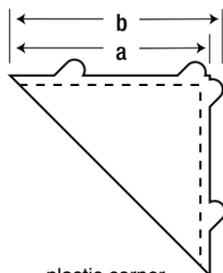
ball corner



flat corner



cabinet corner



plastic corner

Plastic corner protectors

PART NUMBER	Panel thickness	Weight (grams)
PCP-3618	4-5mm	3
PCP-3619	5-6mm	3
PCP-3623	9-10mm	3
PCP-3624	11-12mm	3
PCP-3625	15-16mm	4
PCP-3620	19-20mm	4
PCP-3621	25-26mm	4
PCP-3626	28.5-30mm	5
PCP-3622	32-33mm	5
PCP-3627	39-40mm	6
PCP-3628	49-50mm	8



PART NUMBER	Outer leg size a (mm)	Overall outer size b (mm)	Material thickness c (mm)	Number of fixing holes per leg side	Fixing hole dia (mm)	Weight (grams)
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Ball head corner protectors - 3 way, heavy duty, mild steel ZP

PBC-3600	72 x 72	80 x 80	2	2	5	140
PBC-3601	65 x 65	75 x 75	2	2	5	120
PBC-3602	49.5 x 49.5	60 x 60	1.2	1	5	50
PBC-3603	41 x 41	47 x 47	1.2	2	5	30

Flat corner protectors - 3 way, light duty, mild steel ZP

PFC-3606	25 x 25	25 x 25	0.75	1	4	7
PFC-3607	36 x 36	36 x 36	1	1	5	24
PFC-3608	49 x 49	49 x 49	1	1	5	40
PFC-3609	44 x 44	44 x 44	0.9	1	5	36

Cabinet corner protectors - 3 way, light duty, mild steel ZP

PCC-3611	39.5 x 39.5	39.5 x 39.5	1	1	5	27
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Braces - 90° angle, 3 way, light duty, mild steel ZP

PCBM-3615	39 x 39, 25mm wide	1.2	2	5	16
PCBM-3616	29 x 29, 40mm wide	1.2	2	5	20
PCBM-3617	27 x 27, 14.7mm wide	0.75	1	4	4

other sizes and styles of braces that include holes with countersunk rivet protectors are available on order

Foot / glides, mild steel ZP

GMTH-3630	53 x 58	2	1	5	32
GMTH-3631	44.8 x 28	1.2	1	5	12

MATERIAL:black, LD-PE Size: outer leg size 50 x 50mm, overall: 55 x 55mm

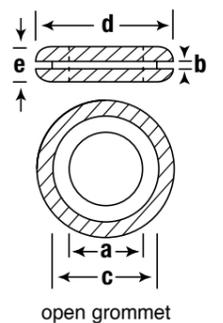
GROMMETS - open & sealing



PART NUMBER	Centre hole a (mm)	Centre hole a (inches)	Panel thickness b (mm)	Panel hole c (mm)	Outside diameter d (mm)	Overall thickness e (mm)	Material	Weight (grams)
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GROMMETS, standard open type

GSO-2435	3.2	1/8"	1.6	11	15	9.5	rubber	0.5
GSO-2436	4.8		1.2	6.4	9.5	6.4	rubber	0.5
GSO-2437	4.8		1.6	6.4	10.3	5.5	rubber	0.5
GSO-2438	5		1.6	8	11	6	PVC soft	0.5
GSO-2439	6.4	1/4"	1.6	12.7	15	8	rubber	0.5
GSO-2440	7		1.5	12	16	7	rubber	1
GSO-2441	8		2	12.7	17.5	7.2	rubber	1
GSO-2442	9.5	3/8"	1.6	12.7	16	6.4	rubber	1
GSO-2443	10		1.6	13	18	6	PVC soft	1
GSO-2444	10		2	12	17.5	7	PVC soft	1
GSO-2445	12		1.6	15	20	7	PVC soft	2
GSO-2446	12.7	1/2"	1.2	19	27	8	rubber	3
GSO-2447	12.7	1/2"	1.6	22.3	28.6	6.4	rubber	3
GSO-2448	15		1.6	18.6	22.3	6.4	rubber	2
GSO-2449	16		1.6	20.2	22.3	8	rubber	3
GSO-2450	19		2	27	31.8	8	rubber	4
GSO-2451	19.05	3/4"	1.6	25.4	31.8	8	rubber	3
GSO-2452	22.2	7/8"	1.6	28.6	36.5	9.5	rubber	6
GSO-2453	25.4	1"	1.6	35	41.3	8	rubber	6
GSO-2454	25.4	1"	1.6	46	57.1	12.7	rubber	7
GSO-2455	30.2	1 5/16"	1.6	33.4	41.3	6.4	rubber	3
GSO-2456	31.8	1 1/4"	1.6	38.1	44.5	8	rubber	6
GSO-2457	31.8	1 1/4"	2	38.1	46	9.5	rubber	10
GSO-2458	38.1	1 1/2"	1.2	44.4	54	10.7	rubber	13
GSO-2459	38.1	1 1/2"	1.6	44.4	54	11.1	rubber	14
GSO-2460	50.8	2"	1.2	57.2	66.7	10.7	rubber	18
GSO-2461	50.8	2"	1.6	57.2	66.7	11.1	rubber	20
GSO-2462	60.3		1.6	69.8	100	8	rubber	18
GSO-2463	76.2	3 1/4"	1.6	82.5	92	7.9	PVC	15



open grommet

SEALING screw plugs

PART NUMBER	Thread	SW width across flats b (mm)	Head o.d. C (mm)	Shank thread depth a (mm)	Overall thickness (mm)	Weight (grams)
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Sealing screw plug with "O" ring-metric

for threaded ports according to DIN 3852-1, DIN ISO 6149-1

Users are recommended to conduct appropriate tests for sealing requirements

SSOM-4066	M8 x 1	7	12.2	8	15	0.5
SSOM-4067	M10 x 1	7	14.2	8	15	1
SSOM-4068	M12 x 1.5	10	17.2	11	18	1
SSOM-4069	M14 x 1.5	10	19.2	11	19	2
SSOM-4070	M16 x 1.5	13	22	11	21	3
SSOM-4071	M18 x 1.5	13	24	11	21	3
SSOM-4072	M20 x 1.5	15	26	11	21	3.5

Material : PA6 (polyamide), yellow. Larger sizes are available on request (ie M22 - M60)

Sealing screw plug with "O" ring-imperial

Users are recommended to conduct appropriate tests for sealing requirements

for threaded ports according to DIN 3852-1, DIN ISO 6149-1

SSOi-4075	1/4"	10	19.2	7.5	15.5	1
SSOi-4076	3/8"	13	22.2	7.5	17.5	3
SSOi-4077	1/2"	15	27.2	9.5	19.5	3.5
SSOi-4078	3/4"	19	32.3	9.5	19.5	4
SSOi-4079	1"	24	40	11.5	21.5	7
SSOi-4080	1 1/4"	24	50.4	11.5	22.5	11
SSOi-4081	1 1/2"	30	55.4	11.5	22.5	13

Material : PA6 (polyamide), yellow

Sealing screw plug-metric (DIN13)

Slotted heads allow installation with a screwdriver or power tools using a special drive bit.

The additional sealing lip prevents an ingress or outflow of fluids (eg oil, water, paint) within certain limits. Users are recommended to conduct the appropriate test beforehand.

SSSM-4090	M10 x 1		18	6.8	15	1
SSSM-4091	M12 x 1.5		20	6.8	15	2
SSSM-4092	M14 x 1.5		22	6.8	15	1
SSSM-4093	M16 x 1.5		22	6.8	15	1.5
SSSM-4094	M18 x 1.5		25.7	8	16.5	2
SSSM-4095	M22 x 1.5		29.3	10	21.5	4

Material: PE-HD, black. Larger sizes available on request (ie M26 - M33), same size but similar models are available in PA6 yellow.

Sealing screw with collar-imperial

slotted square head for installation using a spanner or screwdriver

SSCi-4100	1/4"	9	16	7	13	0.5
SSCi-4101	3/8"	12	21	7	15	2
SSCi-4102	1/2"	13	27	9	19	3
SSCi-4103	3/4"	14	34	7	17	3
SSCi-4104	1"	17	41	9.5	19	4
SSCi-4105	1 1/4"	19	52	9.5	21	9
SSCi-4106	1 1/2"	24	60	12	25	13
SSCi-4107	2"	27	72	12	25	16

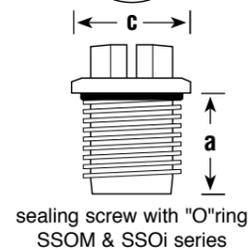
Material : PP, black

Thread protectors-metric

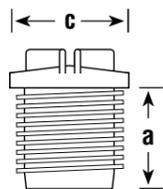
Flexible protective caps for external threads, bolts and studs. Internal surfaces span a broad range of tolerances, ensuring a tight fit

TPM-2330	M8					0.5
TPM-2331	M10					1
TPM-2332	M12					1
TPM-2333	M14					1
TPM-2334	M16					2
TPM-2335	M18					2
TPM-2336	M20					2
TPM-2337	M24					3

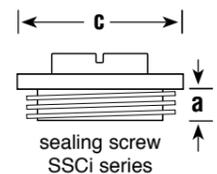
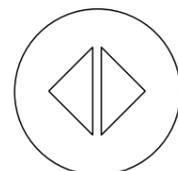
Material: EVA. All 20mm internal depth, outside length, including "pull tab" is 36.5mm



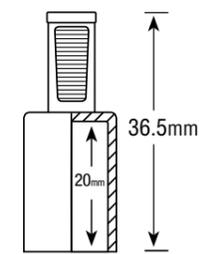
sealing screw with "O"ring
SSOM & SSOi series



sealing screw
SSSM series



sealing screw
SSCi series



thread protector
TPM



sealing screw
SSOM & SSOi series



sealing screw
SSSM series



thread protectors metric
TPM series



RUBBER feet, caps & buffers

PART NUMBER	Tube O/D fits inside (mm)	Tube O/D fits inside (inches)	Colour	Height a (mm)	Base thickness b (mm)	Outside dia base-top c (mm)	Weight (grams)	Metal seat washer number
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ROUND foot-mild steel ZP "seat" washer inside

ORRC-6090	6	1/4"	black	19	8	10-13	3	n/a
ORRC-6091	6	1/4"	off-white	19	8	10-13	3	n/a
ORRC-6092	9.8	3/8"	black	25	9	12-22	10	# 3388
ORRC-6093	9.8	3/8"	off-white	25	9	12-22	10	# 3388
ORRC-6094	12.7	1/2"	black	27	6	20-25	12	#3389
ORRC-6095	12.7	1/2"	off-white	27	6	20-25	12	#3389
ORRC-6101	16	5/8"	black	27	5	19-26	14	#3390
ORRC-6100	16	5/8"	off-white	27	5	19-26	14	#3390
ORRC-6104	19	3/4"	black	32	7	24-28	18	#3391
ORRC-6105	19	3/4"	off-white	32	7	24-28	18	#3391
ORRC-6102	20.6		black	26	5	24-28	12	n/a
ORRC-6103	20.6		off-white	26	5	24-28	12	n/a
ORRC-6106	22.3	7/8"	black	36	9	27-34	23	#3393
ORRC-6107	22.3	7/8"	off-white	36	9	27-34	23	#3393
ORRC-6108	25.4	1"	black	26	6.5 max	27-36	15	#3394
ORRC-6109	25.4	1"	off-white	26	6.5 max	27-36	15	#3394
ORRC-6110	32		black	44	9	38-44	45	#3396
ORRC-6111	32		off-white	44	9	38-44	45	#3396
ORRC-6098	35		black	40	4	40-47	38	n/a
ORRC-6099	35		off-white	40	4	40-47	38	n/a
ORRC-6112	38	1 1/2"	black	45	8	45-55	60	#3398
ORRC-6113	38	1 1/2"	off-white	45	8	45-55	60	#3398

HEAVY duty foot, round outside fitting rubber caps or feet, mild steel washer inside

RCT-6218	22		grey	73	21	29-50	90	inc.
RCT-6219	25		light grey	76	26	29-50	92	#3394
RCT-6220	32		black	70	28	38-49	70	#3396

ANTI-slip "shoe", for non-tilt and tilting levelling feet

OFRC-6227	27		black	11.5	3.5	40	13	n/a
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"shoe" fits over & around the base of a RRAF-5210 non-tilt levelling foot (washing machine foot)

OFRC-6230	31		black	12	4	40	11	n/a
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"shoe" fits over and around the base of a TLF-5021,TLFS-5011 tilting levelling feet and RSSF-5360 stainless steel foot

PART NUMBER	Base O/D C (mm)	Type	Colour	Height a (mm)	Centre screw hole dia	Weight (grams)
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BUFFERS - round with centre hole and "seat" washer

RRB-6226	22	BT	black	11	3	3
RRB-6225	22	BT	off-white	11	3	3
RRB-6224	29	BF	black	24	6.5	20
RRB-6223	29	BF	off-white	24	6	20
RRB-6228	38	BFT	black	27	7	35
RRB-6229	38	BFT	off-white	27	7	35

BUFFERS - "nail-on"

RNOB-6222	16	hemi	black	10	10mm long nail	3
RNOB-6221	16	hemi	off-white	10	10mm long nail	3

BUFFERS - for 90° corners

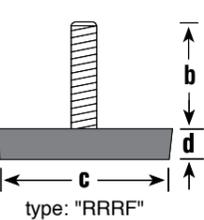
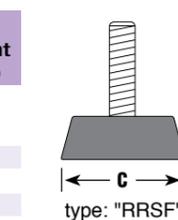
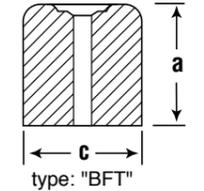
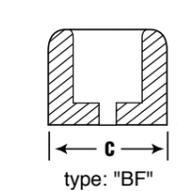
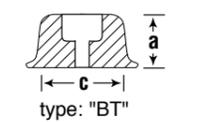
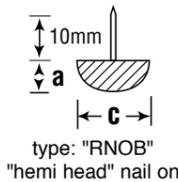
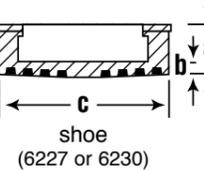
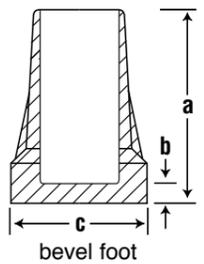
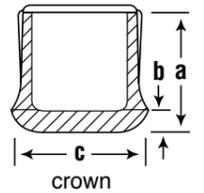
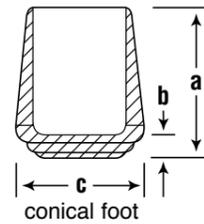
CRB-6232	internal steel core,moulded off-white rubber outer, 25mm x 19mm x 65mm inside leg, 4 x 5mm fixing holes					145
CPB-6235	grey rubber, 25mm thickness, 105mm inside leg, 4 x 6.5m fixing holes with mild steel ZP "seat" washer inside					154

PART NUMBER	Thread size (mm)	Thread length b (mm)	Base diameter C (mm)	Base height d (mm)	Maximum static load (kgs)	Thread material	Weight (grams)
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RUBBER base levelling feet

RRRF-5190	M8	28	22	10	100	mild steel	14
RRRF-5191	M8	38	22	10	100	mild steel	18
RRSF-5217	M8	38	22	10	100	stainless steel	20
RRSF-5218	M8	48	40	10	100	stainless steel	30
RRRF-5354	M10	40	40	11.5	500	mild steel	45
RRRF-5355	M10	60	34	7	250	mild steel	50
RRRF-5357	M10	60	34	7	250	mild steel	50
RRRF-5356	M10	60	52	10	250	mild steel	75

RRTF-5352	M10	90	40	12	75	mild steel	69
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Material: rubber base, with mild steel ZP or stainless steel 304g thread. All black except #5357 is white rubber. All levelling feet are non tilt except #5352 which is tilting



LEVELLING feet, non-tilting

PART NUMBER	Thread length b (mm)	Base diameter C (mm)	Base height d (mm)	Maxium static load (kgs)	Base profile edge	Base material	Thread material	Weight (grams)
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M6 thread mild steel ZP

RRAF-5200	25	37.5	16	100	P type	PE	mild steel zp	14
RRAF-5201	27	20	6	50	serrated	nylon	mild steel zp	9
RAFS-5240	female	58	36	100	X type	nylon	stainless steel 316g	50

M8 thread mild steel ZP

RRAK-5205	17	28.5	10	250	knurled	nylon	mild steel zp	16
RRAK-5206	17	50.5	12	250	knurled	nylon	mild steel zp	31
RRAF-5203	25	38	16	100	P type	PP	mild steel zp	18
RRAK-5216	27	30	7	250	serrated	nylon	mild steel zp	18
RRAF-5202	25	25	16	100	P type	PE	mild steel zp	14
RRAF-5199	50	20	6	100	Y type	PE	mild steel zp	18
RRAF-5215	50	25	16	100	P type	PP	mild steel zp	24
RRAF-5204	50	38	16	100	P type	PP	mild steel zp	26
RARM-5229	100	58	36	250	X type	nylon	mild steel zp	90

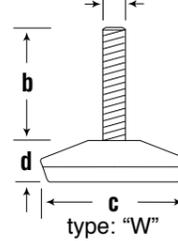
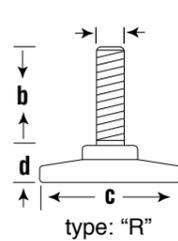
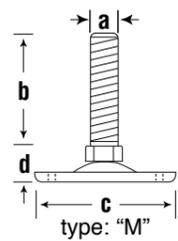
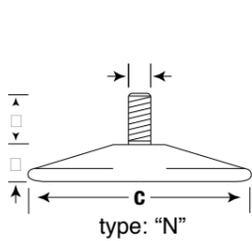
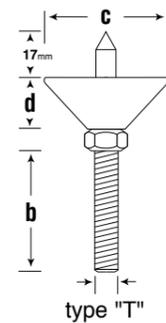
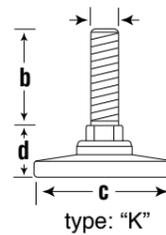
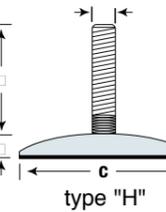
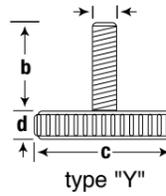
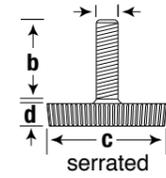
M8 thread stainless steel

RRAS-5217	38	22	10	100	Q type	Synthetic rubber	stainless steel 304g	19
RRAS-5218	48	40	10	100	Q type	Synthetic rubber	stainless steel 304g	29
RARS-5220	50	58	36	300	X type	nylon	stainless steel 304g	75
RARS-5230	50	58	36	300	X type	nylon	stainless steel 316g	74
RARS-5221	80	58	36	300	X type	nylon	stainless steel 304g	83
RARS-5231	80	58	36	300	X type	nylon	stainless steel 316g	85
RAFS-5242	female	58	36	100	X type	nylon	stainless steel 316g	51

M10 thread mild steel ZP

RRAK-5212	16	25	7	250	serrated	Nylon	mild steel zp	18
RRAK-5213	16	30	7	250	serrated	Nylon	mild steel zp	20
RRAK-5214	26	30	7	250	serrated	Nylon	mild steel zp	27
RRAF-5298	20	80	15	250	N type	PE	mild steel zp	54
RRAF-5207	25	30	11	250	R type	nylon	mild steel zp	22
RRAF-5351	30	50	15	300	W type	nylon+metal	mild steel zp	50
RAFH-5302	37	50	19	1,000	K type	nylon	mild steel zp	51
RRAF-5210	40	30	9	500	serrated	PE	mild steel zp	31
RAFS-5211	40	30	9	500	serrated	PE	mild steel zp	30
RRAF-5208	45	25	15	500	Z type	PA	mild steel zp	44
RRAF-5301	45	50	19	1,000	K type	nylon	mild steel zp	51
RRAF-5310	45	50	9	500	H type	brushed S/S cap, nylon	mild steel zp	42
RMAF-5350	50	30	13	650	M type	mild steel zp	mild steel zp	48
RMAF-5370	50	50	13	650	M type	mild steel zp	mild steel zp	67
RARM-5303	50	58	36	300	X type	nylon	mild steel zp	85
RRAF-5300	52	40	13.5	300	P type	PP	mild steel zp	37
ROBS-5305	55	47.5	6		T type	mild steel zp	mild steel zp	52
ROBS-5306	60	45	14.5		T type	PP	mild steel zp	63
RRAF-5311	75	50	9	500	H type	brushed S/S cap, nylon	mild steel zp	57
RRAF-5209	100	47.5	15	750	Z type	nylon	mild steel zp	72
RARM-5304	100	58	36	300	X type	nylon	mild steel zp	115

No. 5211 has a screwdriver slot at the top of thread for height adjustment from top
 No. 5302 has a 7mm A/F hexagon at the top of the thread for height adjustment from top
 No. 5370 & No. 5360 levelling feet have 2x5mm i.d fixing holes in the base



LEVELLING feet - non tilting

LEVELLING feet - non tilting

LEVELLING feet, non-tilting

PART NUMBER	Thread length b (mm)	Base diameter C (mm)	Base height d (mm)	Maxium static load (kgs)	Base profile edge	Base material	Thread material	Weight (grams)
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M10 thread stainless steel

RARS-5222	50	58	36	500	X type	nylon	stainless steel 304g	89
RARS-5232	50	58	36	500	X type	nylon	stainless steel 316g	92
RARS-5360	60	38	5	500	S type	stain/steel 304g	stainless steel 304g	49
RARS-5223	100	58	36	500	X type	nylon	stainless steel 304g	116
RARS-5233	80	58	36	500	X type	nylon	stainless steel 316g	107
RAFS-5244	female	58	36	500	X type	nylon	stainless steel 316g	55

M12 thread mild steel ZP

RARM-5403	50	58	58	1000	X type	nylon	mild steel zp	110
RRAF-5401	65	47.5	15	2000	Z type	nylon	mild steel zp	70
RRAF-5400	105	80	14	300	Z type	nylon	mild steel zp	113
RARM-5404	105	58	58	1000	X type	nylon	mild steel zp	150

M12 thread stainless steel

RARS-5224	50	58	58	1000	X type	nylon	stainless steel 304g	112
RARS-5234	50	58	58	1000	X type	nylon	stainless steel 316g	112
RRAS-5402	55	40	25	1000	P type	nylon	stainless steel 304g	82
RARS-5365	75	50	5	750	S type	stain/steel 304g	stainless steel 304g	85
RARS-5225	100	58	58	1000	X type	nylon	stainless steel 304g	146
RARS-5235	80	58	58	1000	X type	nylon	stainless steel 316g	130
RAFS-5246	female	58	36	1000	X type	nylon	stainless steel 316g	58

M16 thread mild steel ZP

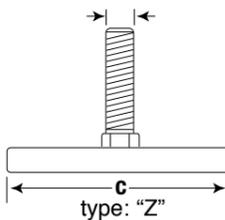
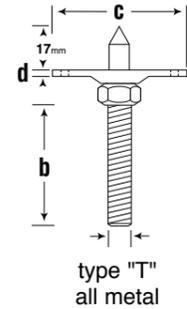
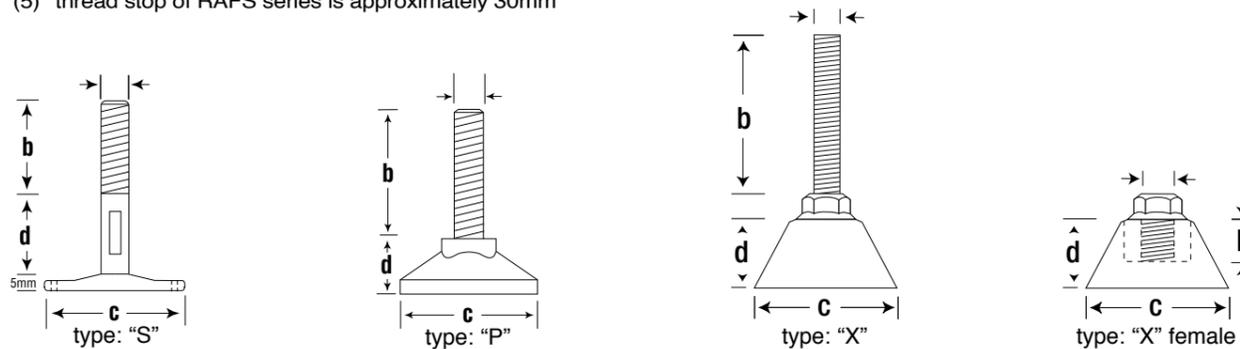
RARM-5496	55	58	58	1000	X type	nylon	mild steel zp	165
RARM-5497	110	58	58	1000	X type	nylon	mild steel zp	230

M16 thread stainless steel

RARS-5226	50	58	36	1000	X type	nylon	stainless steel 304g	168
RARS-5236	50	58	36	1000	X type	nylon	stainless steel 316g	170
RRAS-5227	100	58	36	1000	X type	nylon	stainless steel 304g	232
RARS-5237	110	58	36	1000	X type	nylon	stainless steel 316g	248
RAFS-5248	female	58	36	1000	X type	nylon	stainless steel 316g	67

RARS, RARM & RAFS series

- (1) are available with stainless steel 304 grade, 316 grade (marine grade) and mild steel ZP male & female thread
- (2) shorter & longer thread lengths than those above are available subject to minimum order quantity
- (3) all RARS, RARM & RAFS bases can be fitted with the ASFB-5466 "soft" foot pad, designed to resist floor skidding and to reduce the effects of vibration.
- (4) "soft" attachable disc ASFB-5466: 58mm dia. x 2.5mm thick black "non-marking" synthetic rubber
- (5) thread stop of RAFS series is approximately 30mm



LEVELLING feet - non tilting

LEVELLING feet - non tilting

LEVELLING feet - tilting

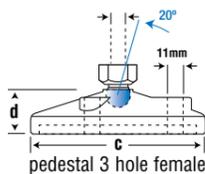
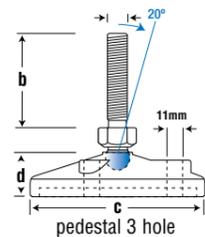
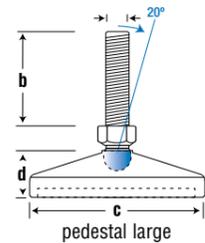
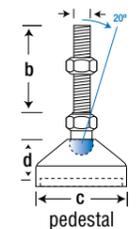
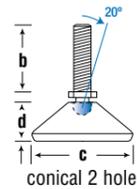
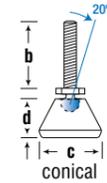
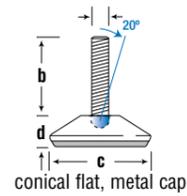
PART NUMBER	Thread length b (mm)	Base diameter C (mm)	Base height d (mm)	Maxium static load (kgs)	Base profile	Base material	Thread material	Weight (grams)
M6 thread								
TLF-5001	25	25	20	50	conical-flat	PE	mild steel zp	18
TLF-5003	25	40	20	100	conical-flat	PE	mild steel zp	25
TLFS-5004	40	40	20	100	pedestal	nylon	stainless steel 304 grade	33
M8 thread								
TLF-5012	25	25	20	50	conical-flat	PE	mild steel zp	20
TLF-5010	25	40	20	100	conical-flat	PE	mild steel zp	28
TLF-5011	27	30	13	300	conical-flat metal cap	PA+s/s	mild steel zp	20
TLF-5013	60	47.5	20	100	conical-flat	PP	mild steel zp	41
TLFS-5008	80	40	20	350	pedestal	nylon	stainless steel 304 grade	50
M10 thread								
TLF-5015	30	35	12	100	conical-flat	PE+chrome	mild steel zp	30
TLF-5020	37.5	32.5	20	75	conical-flat	PE	mild steel zp	34
HDAF-5438	60	40	33	500	conical	nylon	mild steel zp	70
HDAF-5440	60	40	33	500	conical	nylon	stainless steel 304 grade	70
HSEF-5437	60	78 x 40	33	500	long, 2 hole	nylon	mild steel zp	75
HSEF-5439	60	78 x 40	33	500	long, 2 hole	nylon	stainless steel 304 grade	78
TLF-5022	75	40	20	100	conical	PE	mild steel zp	55
TLFB-5019	75	40	20	100	conical, 2 hole	PE	mild steel zp	55
TLF-5021	90	32.5	20	75	conical	PE	mild steel zp	58
TLF-5029	100	47.5	20	250	conical	PE	mild steel zp	68
HDAF-5449	100	100	36	500	pedestal, 3 hole	nylon	mild steel zp	146
M12 thread								
TLF-5030	50	40	20	100	conical	PE	mild steel zp	56
TLF-5031	100	55	20	250	conical	PE	mild steel z.p.	97
HDAF-5450	100	100	36	750	pedestal, 3 hole	nylon	mild steel zp	165
HSAF-5454	100	100	36	750	pedestal, 3 hole	nylon	stainless steel 304 grade	175
HDAF-5490	100	125	30	900	conical large	nylon	mild steel zp	200
HSAF-5491	100	125	30	900	conical large	nylon	stainless steel 304 grade	205
M16 thread								
HDAF-5452	70	50	40	500	conical	nylon	nylon	46
HDAF-5451	100	100	36	1000	pedestal, 3 hole	nylon	mild steel z.p.	230
HSAF-5455	100	100	36	750	pedestal, 3 hole	nylon	stainless steel 304 grade	235
HDAF-5492	150	125	30	1100	conical large	nylon	mild steel zp	350
HSAF-5493	150	125	30	1100	conical large	nylon	stainless steel 304 grade	380
M20 thread								
HDAF-5453	120	100	40	500	pedestal	nylon	nylon	107
HDAF-5494	150	125	30	1200	conical large	nylon	mild steel zp	490
HSAF-5495	150	125	30	1200	conical large	nylon	stainless steel 304 grade	510
female M8 thread								
HDLB-5472	female M8x12	100	36	750	female pedestal 3 hole	nylon	mild steel zp	95

* max. angle of tilt for all above levelling feet is 20° from the vertical
 ** other base sizes and thread lengths are available subject to minimum order quantities
 *** the max. static load of the levelling foot is measured from the vertical, the maximum load reduces as the stem moves away from the vertical

Optional: attachable anti-slip base disc

PART NUMBER	Base dia size C (mm)	Soft foot disc fits the following levelling feet	Disc colour	Weight (grams)
ASFB-5460	50	HDAF-5452	black	12
ASFB-5461	100	HDAF-5453	black	52
ASFB-5462	100	HDAF-5449, 5450, 5451, HSAF-5454, 5455, HDLB-5472	cream	30
ASFB-5464	40 od & 40 x 78	HDAF-5438, 5440, 5437, 5439, 5004, 5008	navy blue	4
ASFB-5465	125	HSAF-5491, 5493, 5495, HDAF-5490, 5492, 5494	navy blue	55

Soft foot discs are made of TPE (thermoplastic elastomer, a synthetic rubber)



LEVELLING feet - tilting

LEVELLING feet - tilting

ROUND threaded tube inserts

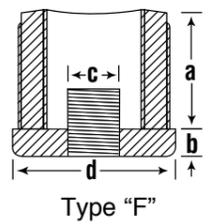
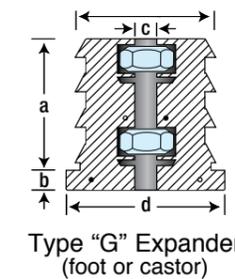
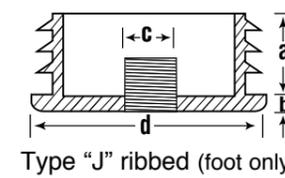
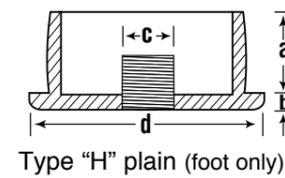
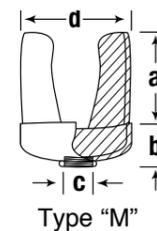
PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (mm)	Application	Thread size C (mm)	Type	Shank length a (mm)	Head thick b (mm)	Thread stop (mm)	Max. static load (kg)*	Housing profile	Housing material	Weight (grams)	Thread material
RTTI-5640	16 x 1.6	(5/8"x16g)	foot	M6	ribbed	34	5	10	100	J	nylon	14	mild steel ZP
RTTI-5641	16 x 1.6	(5/8"x16g)	foot	M8	ribbed	34	5	20	100	J	nylon	12	nylon
RTSI-5642	19 x 1.2-1.6	(3/4"x18/16g)	foot	M6	spring	15	2	15	100	H	spring steel	20	mild steel ZP
RTTI-5643	19 x 1.6	(3/4"x16g)	foot	M8	ribbed	34	5	15	100	J	nylon	15	mild steel ZP
RTTI-5644	20 x 1.6		foot	M6	ribbed	34	5	15	100	J	nylon	15	mild steel ZP
RTTI-5645	20 x 1-1.6		foot	M8	ribbed	34	5	15	100	J	nylon	18	mild steel ZP
RETI-5825	20 x 1.6		foot or castor	M8	EXPANDER	36	5	38	300	G	nylon	15	mild steel ZP
RTTI-5823	20 x 1.6-2		foot	M10	ribbed	34	5	19	300	J	nylon	6	nylon
RTTI-5375	22 x 1.6-2		foot	M8	ribbed	16.5	5	19.5	300	J	nylon	4.5	nylon
RETI-5827	22 x 1.6		foot or castor	M8	EXPANDER	36	5	38	300	G	nylon	16	mild steel ZP
RTTI-5371	22 x 1.6-2		foot	M10	ribbed	16.5	5	19	300	J	nylon	5	nylon
RTTI-5646	25 x 1.6-2		foot	M6	ribbed	34	5	18	100	J	nylon	20	mild steel ZP
RTTI-5828	25 x 1.6		foot	M8	ribbed	34	5	12	300	J	nylon	13	mild steel ZP
RTTI-5781	25 x 1.6-2		foot	M8	ribbed	16.5	5	14.5	300	J	nylon	5	mild steel ZP
RETI-5893	25 x 1.6		foot or castor	M10	EXPANDER	36	5	30	300	G	nylon	30	mild steel ZP
RTTI-5665	25 x 1.6	(& 1" x 16g)	foot	M10	plain	21	10.5	8	500	M	mild steel ZP	22	mild steel ZP
RTTI-5829	25 x 1.6-2		foot	M10	ribbed	16	5	15	300	J	nylon	6	nylon
RETI-5894	25 x 1.6		foot or castor	M12	EXPANDER	36	5	37	300	G	nylon	36	mild steel ZP
RTTI-5376	25 x 1.6-2		foot	M12	ribbed	16.5	5	19.5	300	J	nylon	5	nylon
RETI-5373	25 x 1.6		foot	M16	ribbed	34	5	15	150	J	nylon	5	nylon
RETI-5374	25 x 2		foot	M16	ribbed	34	5	15	150	J	nylon	5	nylon
RTTI-5830	30 x 1.6-2		foot	M8	ribbed	16	5	15	300	J	nylon	8	nylon
RETI-5826	30 x 1.6		foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	36	mild steel ZP
RTTI-5831	30 x 1.6-2		foot	M10	ribbed	16.5	5	15	300	J	nylon	22	nylon
RETI-5771	30 x 1.6		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	36	mild steel ZP
RTTI-5377	30 x 1.6-2		foot	M12	ribbed	16.5	5	19.5	300	J	nylon	8	nylon
RTTI-5397	30 x 1.6-2		foot	M16	ribbed	34	5	15	150	J	nylon	8	nylon
RTTI-5398	30 x 2-2.5		foot	M16	ribbed	34	5	15	150	J	nylon	8	nylon
RETI-5892	32 x 1.6	(1 1/4"x16g)	foot or castor	M8	EXPANDER	35	5	35	300	G	nylon	32	mild steel ZP
RTTI-5832	32 x 1.6-2	(1 1/4"x16/14g)	foot	M8	ribbed	24	5	15	300	J	nylon	10	nylon
RETI-5872	32 x 1.6	(1 1/4"x16g)	foot or castor	M10	EXPANDER	37	5	35	300	G	nylon	35	mild steel ZP
RZTI-5773	32 x 1.6	(1 1/4"x16g)	foot	M10	plain	15	5	18	800	K	zinc diecast	41	zinc diecast
RTTI-5833	32 x 1.6-2	(1 1/4"x16/14g)	foot	M10	ribbed	24	5	15	300	J	nylon	12	nylon
RZTI-5767	32 x 2	(1 1/4"x14g)	foot	M10	plain	15	5	18	800	K	zinc diecast	41	zinc diecast
RTTI-5378	32 x 1.6-2	(1 1/4"x16/14g)	foot	M12	ribbed	24	5	17	300	J	nylon	11	nylon
RETI-5895	32 x 1.6	(1 1/4"x16g)	foot or castor	M12	EXPANDER	35	5	35	300	G	nylon	34	mild steel ZP
RDPI-5896	32 x 1.6	(1 1/4"x16g)	foot	M16	plain	38	7	13	250	F	nylon	34	mild steel ZP
RETI-5650	33.7 x 2-2.6	(25nb) x/light +light	foot or castor	M10	EXPANDER	32	5	35	300	G	nylon	38	mild steel ZP
RETI-5652	33.7 x 2-2.6	(25nb) x/light +light	foot or castor	M12	EXPANDER	32	5	35	300	G	nylon	40	mild steel ZP
RTTI-5381	35 x 1.6-2		foot	M8	ribbed	24	5	17	300	J	nylon	14	Nylon
RETI-5824	35 x 1.6		foot or castor	M10	EXPANDER	34	5	36	300	G	nylon	42	mild steel ZP
RTTI-5379	35 x 1.6-2		foot	M10	ribbed	24	5	17	300	J	nylon	14	Nylon
RTTI-5380	35 x 1.6-2		foot	M12	ribbed	24	5	17	300	J	nylon	14	nylon



Expanders use the "Rawplug" effect. Expander inserts are made of 2 matching moulded Nylon pieces with 2 hex nuts sitting inside the tapered conical cavities. Tightening a threaded bolt or screw into the Expander for attaching a castor to a round tube presses the hex nuts downward, making the outer walls of the insert move sideways tightly gripping the inner wall of the tube, this is known as the "Rawplug" effect.

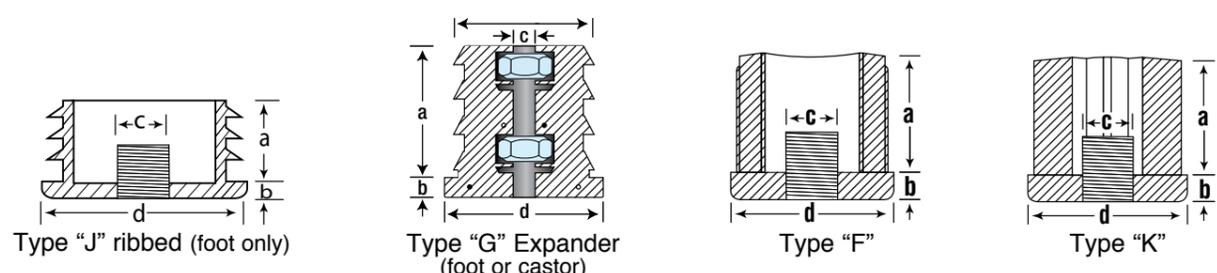
- (1) EXPANDERS, when used to attach a castor **MUST have the bolt or screw tightened fully** to allow the insert pieces to expand and grip the inside of the tube
- (2) THREAD STOP, the distance measured from the top of the insert head to the end of the female thread inside the insert.
- (3) **Stainless steel 304 grade threads** available for most of the "EXPANDER" range. Stainless Steel 316 grade threads are available if the expanders are near seawater or in the presence of chlorides

DO NOT use ribbed threaded inserts for castor attachment. Use the "expanding" threaded inserts or plain H.I.P. type with adhesive.



ROUND threaded tube inserts

PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (mm)	Application	Thread size C (mm)	Type	Shank length a (mm)	Head thick b (mm)	Thread stop (mm)	Max. static load (kg)*	Housing profile	Housing material	Weight (grams)	Thread material
RTTi-5383	38 x 1.6-2	(11/2" x 16/18g)	foot	M8	ribbed	24	5	17	300	J	nylon	17	nylon
REti-5891	38 x 1.6	(11/2" x 16g)	foot or castor	M10	EXPANDER	35	5	30	300	G	nylon	48	mild steel ZP
RTTi-5774	38 x 1.6	(11/2" x 16g)	foot	M10	plain	15	5	18	800	K	zinc	38	zinc diecast
RTTi-5669	38 x 1.6	(11/2" x 16g)	foot	M10	plain	35	8	20	5500	K	PA GF	60	mild steel ZP
RTTi-5837	38 x 1.6-2	(11/2" x 16/18g)	foot	M10	ribbed	24	5	15	300	J	nylon	16	nylon
RZTi-5766	38 x 2	(11/2" x 14g)	foot	M10	plain	15	5	18	800	K	zinc diecast		zinc diecast
REti-5790	38 x 1.6	(11/2" x 16g)	foot or castor	M12	EXPANDER	35	5	30	300	G	nylon	48	mild steel ZP
RTTi-5382	38 x 1.6-2		foot	M12	ribbed	24	5	19.5	300	J	nylon	16	nylon
RDPI-5791	38 x 1.6	(11/2" x 16g)	foot	M16	plain	38	7	13	300	F	nylon	42	Stainless Steel
RTTi-5399	38 x 1.6-2	(11/2" x 16/14g)	foot	M16	ribbed	32	5	19.5	300	J	nylon	18	nylon
RDPI-5897	38 x 1.6	(11/2" x 16g)	foot	M20	plain	38	7	13	300	F	nylon	38	mild steel ZP
RTTi-5834	42 x 1.6-2		foot	M8	ribbed	24	5	15	300	J	nylon	34	nylon
REti-5396	42 x 2		foot or castor	M10	EXPANDER	35	5	30	300	G	nylon	54	mild steel ZP
RTTi-5384	42 x 1.6-2		foot	M12	ribbed	24	5	19.5	300	J	nylon	21	nylon
REti-5392	42 x 2		foot or castor	M12	EXPANDER	35	5	30	300	G	nylon	60	mild steel ZP
REti-5835	42.4 x 1.6-2.6	(32nbi) x/light + light	foot or castor	M10	EXPANDER	34	5	35	300	G	nylon	36	mild steel ZP
REti-5772	42.4 x 1.6-2.6	(32nbi) x/light + light	foot or castor	M12	EXPANDER	34	5	35	300	G	nylon	38	mild steel ZP
REti-5658	48.3 x 2.3-2.9	(40 nbi) x/light + light	foot or castor	M10	EXPANDER	36	5	37	300	G	nylon	65	mild steel ZP
REti-5660	48.3 x 2.3-2.9	(40 nbi) x/light + light	foot or castor	M12	EXPANDER	36	5	37	300	G	nylon	72	mild steel ZP
RTTi-5388	50 x 1.6-2		foot	M8	ribbed	24	5	19.5	300	J	nylon	31	nylon
REti-5873	50 x 1.6		foot or castor	M10	EXPANDER	32	5	37	300	G	nylon	68	mild steel ZP
RTTi-5668	50 x 1.6		foot	M10	plain	38	11	20	8500	K	PA GF	86	mild steel ZP
RTTi-5836	50 x 1.6-2		foot	M10	ribbed	24	5	17	300	J	nylon	31	nylon
REti-5875	50 x 2		foot or castor	M10	EXPANDER	32	5	37	300	G	nylon	68	mild steel ZP
RTTi-5390	50 x 2-2.5		foot	M10	ribbed	25.5	8	10	250	J	nylon	32	mild steel ZP
REti-5874	50 x 1.6		foot or castor	M12	EXPANDER	32	5	37	300	G	nylon	72	mild steel ZP
RTTi-5385	50 x 1.6-2		foot	M12	ribbed	24	5	19	300	J	nylon	30	nylon
REti-5861	50 x 2		foot or castor	M12	EXPANDER	32	5	37	300	G	nylon	72	mild steel ZP
RTTi-5389	50 x 2.5		foot	M12	ribbed	35	5	15	300	J	nylon	50	mild steel ZP
REti-5770	50 x 3		foot or castor	M12	EXPANDER	32	5	37	300	G	nylon	72	mild steel ZP
RDPI-5898	50 x 1.6		foot	M16	plain	44	11	15	1000	K	nylon	90	mild steel ZP
REti-5372	50 x 1.6-2		foot	M16	ribbed	32	5	37	300	J	nylon	32	nylon
RDPI-5899	50 x 1.6		foot	M20	plain	44	11	15	1000	K	nylon	95	mild steel ZP
RTTi-5387	50.8 x 1-1.6	(2" x 22/16g)	foot	M8	plain	24	5	19.5	300	J	nylon	35	nylon
RTTi-5386	50.8 x 1-1.6	(2" x 22/16g)	foot	M10	plain	24	5	19.5	300	J	nylon	35	nylon
RDPI-5876	50.8 x 1-1.6	(2" x 22/16g)	foot	M12	plain	24	5	19.5	300	F	nylon	35	nylon
RDPI-5877	50.8 x 1.6	(2" x 16g)	foot	M16	plain	38	7	13	450	F	nylon	95	Stainless Steel
RDPI-5900	50.8 x 1.6	(2" x 16g)	foot	M20	plain	38	7	28	450	F	nylon	105	mild steel ZP
RTTi-5666	60 x 0.8-1.6		foot	M10	ribbed	32	5	15	100	G	nylon	80	mild steel ZP
REti-5838	60 x 2 & 60.3 x 2		foot or castor	M10	EXPANDER	35	3	33	300	G	nylon	82	mild steel ZP
REti-5667	60 x 2 & 60.3 x 2		foot or castor	M12	EXPANDER	35	3	33	300	G	nylon	82	mild steel ZP
REti-5662	60.3 x 2.3-2.9	(50 nbi) x/light + light	foot or castor	M10	EXPANDER	36	5	37	300	G	nylon	92	mild steel ZP
REti-5664	60.3 x 2.3-2.9	(50 nbi) x/light + light	foot or castor	M12	EXPANDER	36	5	37	300	G	nylon	98	mild steel ZP



Expanders use the "Rawplug" effect. Expander inserts are made of 2 matching moulded Nylon pieces with 2 hex nuts sitting inside the tapered conical cavities. Tightening a threaded bolt or screw into the Expander for attaching a castor to a round tube presses the hex nuts downward, making the outer walls of the insert move sideways tightly gripping the inner wall of the tube, this is known as the "Rawplug" effect.

- (1) EXPANDERS, when used to attach a castor **MUST have the bolt or screw tightened fully** to allow the insert pieces to expand and grip the inside of the tube
- (2) **THREAD STOP**, the distance measured from the top of the insert head to the end of the female thread inside the insert.
- (3) ***Stainless steel 304 grade threads** available for most of the "EXPANDER" range. Stainless Steel 316 grade threads are available if the expanders are near seawater or in the presence of chlorides

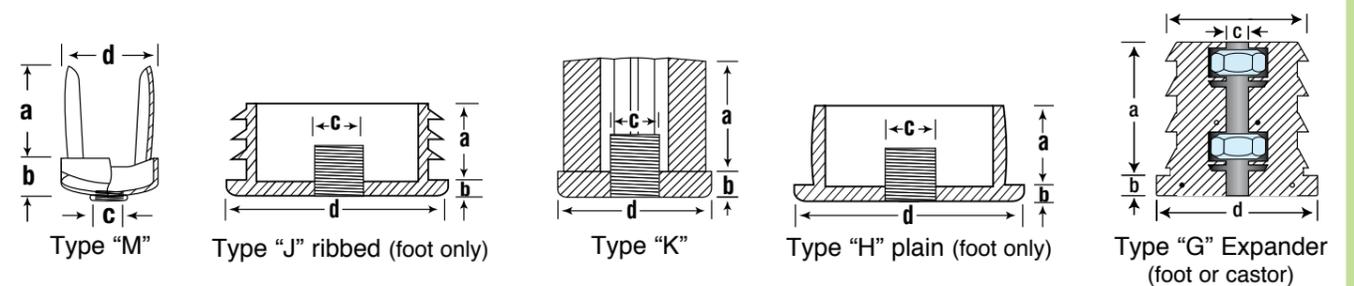
DO NOT use ribbed threaded inserts for castor attachment. Use the "expanding" threaded inserts or plain H.I.P. type with adhesive.

ROUND threaded tube inserts

ROUND threaded tube inserts

SQUARE - threaded tube inserts

PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (mm)	Application	Thread size C (mm)	Type	Shank length a (mm)	Head thick b (mm)	Thread stop (mm)	Max. static load (kg)*	Housing profile	Housing material	Weight (grams)	Thread material
STTI-5850	16 x 16 x 1-2	(5/8"x5/8"x 20/14g)	foot	M6	ribbed	11	6	4	50	J	PE	2	mild steel ZP
STTI-5610	16 x 16 x 1-1.6	(5/8"x5/8"x 20/16g)	foot	M8	ribbed	18	5	23	50	J	PE	3	PE
STTI-5611	19 x 19 x 1.2	(3/4"x3/4"x18g)	foot	M8	plain	12	4	10	150	H	H.i.P*	8	H.i.P*
STTI-5612	19 x 19 x 1.6	(3/4"x3/4"x16g)	foot	M8	plain	12	4	10	150	H	H.i.P*	8	H.i.P*
SETI-5609	20 x 20 x 1.6		foot or castor	M6	EXPANDER	37	5	20	100	G	nylon	10	mild steel ZP
STTI-5613	20 x 20 x 1.6-2		foot	M6	ribbed	34	5	10	100	G	nylon	10	mild steel ZP
SETI-5858	20 x 20 x 1.6		foot or castor	M8	EXPANDER	36	5	38	300	G	nylon	17	mild steel ZP
STTI-5851	20 x 20 x 1.6-2		foot	M8	ribbed	17	5	15	300	J	nylon	9	nylon
STTI-5614	20 x 20 x 1.6-2		foot	M10	ribbed	16.5	5	20	300	J	nylon	12	nylon
STTI-5615	20 x 20 x 1.6-2		foot	M10	ribbed	33	10	12	300	J	nylon	22	mild steel ZP
STTI-5616	20 x 20 x 1.6-2		foot	M12	ribbed	34	5	20	100	J	nylon	10	nylon
STTI-5617	22 x 22 x 1.6		foot or castor	M8	EXPANDER	35	5	35	300	G	nylon	25	mild steel ZP
STTI-5785	22 x 22 x 1.6-2		foot	M8	ribbed	17	5	15	300	J	nylon	6	nylon
SETI-5649	22 x 22 x 1.6	(7/8"x7/8"x16g)	foot or castor	M10	EXPANDER	36	5	37	300	J	nylon	29	mild steel ZP
STTI-5618	22 x 22 x 1.6-2		foot	M10	ribbed	34	5	20	100	J	nylon	12	nylon
STTI-5619	22 x 22 x 1.6-2		foot	M12	ribbed	34	5	20	150	J	nylon	10	nylon
SETI-5620	25 x 25 x 1.6		foot or castor	M8	EXPANDER	36	5	38	300	G	nylon	30	mild steel ZP
STTI-5852	25 x 25 x 1.6-2		foot	M8	ribbed	17	5	15	300	J	nylon	8	nylon
SETI-5801	25 x 25 x 1.6		foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	33	mild steel ZP
SETS-5808	25 x 25 x 1.6		foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	33	Stainless Steel
SZTI-5775	25 x 25 x 1.6		foot	M10	plain	17	5	18	800	H	zinc diecast	41	zinc diecast
STTI-5853	25 x 25 x 1.6-2		foot	M10	ribbed	17	5	15	300	J	nylon	8	nylon
SZTI-5621	25 x 25 x 2		foot	M10	plain	17	5	18	800	H	zinc diecast	36	zinc diecast
SETI-5802	25 x 25 x 1.6		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	41	mild steel ZP
STTI-5626	25 x 25 x 1.6-2		foot	M12	ribbed	17	5	15	300	J	nylon	7	nylon
STTI-5803	25 x 25 x 1.6		foot	M16	plain	39	5	16	250	F	nylon	26	Stainless Steel
STTI-5627	25 x 25 x 1.6-2		foot	M16	ribbed	34	5	38	150	J	nylon	15	nylon
STTI-5622	25.4 x 25.4 x 1.2-1.6	(1"x1"x18/16g)	foot	M8	ribbed	15	4	10	150	J	PP	7	PP
STTI-5623	25.4 x 25.4 x 1.6	(1"x1"x16g)	foot	M8	plain	13	10	5	300	M	mild steel zp	20	mild steel ZP
STTI-5624	25.4 x 25.4 x 1.2	(1"x1"x18g)	foot	M10	plain	14	11	5	350	M	mild steel zp	26	mild steel ZP
STTI-5369	25.4 x 25.4 x 1.2-2	(1"x1"x18/14g)	foot	M10	ribbed	34	5	22	300	J	nylon	9	nylon
STTI-5625	25.4 x 25.4 x 1.6	(1"x1"x16g)	foot	M10	plain	13	10	5	500	M	mild steel zp	27	mild steel ZP
STTI-5425	25.4 x 25.4 x 1.2-2	(1"x1"x18/14g)	foot	M12	ribbed	34	5	22	300	J	nylon	8	nylon
STTI-5426	25.4 x 25.4 x 1.6	(1"x1"x16g)	foot or castor	M16	plain	62	8	70	300	H	nylon	25	nylon
SETI-5629	30 x 30 x 1.6		foot or castor	M8	EXPANDER	37	5	38	300	G	nylon	40	mild steel ZP
STTI-5628	30 x 30 x 1.6-2		foot	M8	ribbed	17	5	15	300	J	nylon	10	nylon
SETI-5630	30 x 30 x 2		foot or castor	M8	EXPANDER	37	5	35	300	G	nylon	35	mild steel ZP
SETI-5810	30 x 30 x 1.6		foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	45	mild steel ZP
STTI-5776	30 x 30 x 1.6		foot	M10	plain	15	5	18	800	H	zinc diecast	48	zinc diecast
STTI-5854	30 x 30 x 1.6-2		foot	M10	ribbed	17	5	15	300	G	nylon	11	nylon
SETI-5859	30 x 30 x 2		foot or castor	M10	EXPANDER	37	5	35	300	G	nylon	38	mild steel ZP
STZI-5631	30 x 30 x 2		foot	M10	plain	17	5	18	800	H	zinc diecast	48	zinc diecast
STZI-5632	30 x 30 x 2.5		foot	M10	plain	17	5	18	800	H	zinc diecast	52	zinc diecast
STTI-5863	30 x 30 x 2.5-3		foot	M10	ribbed	16	5	15	300	G	nylon	9	nylon
SETI-5821	30 x 30 x 1.6		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	42	mild steel ZP
STTI-5633	30 x 30 x 1.6-2		foot	M12	ribbed	17	5	15	300	G	nylon	10	nylon
SZTI-5635	30 x 30 x 2		foot	M12	plain	17	5	18	800	H	zinc diecast	51	zinc diecast
STTI-5634	30 x 30 x 2-2.5		foot	M12	ribbed	17	5	15	300	G	nylon	7	nylon
STTI-5636	30 x 30 x 1.6-2		foot	M16	ribbed	25	5	35	150	G	nylon	32	nylon
STTI-5637	30 x 30 x 3		foot	M16	ribbed	26	5	15	150	G	nylon	30	nylon



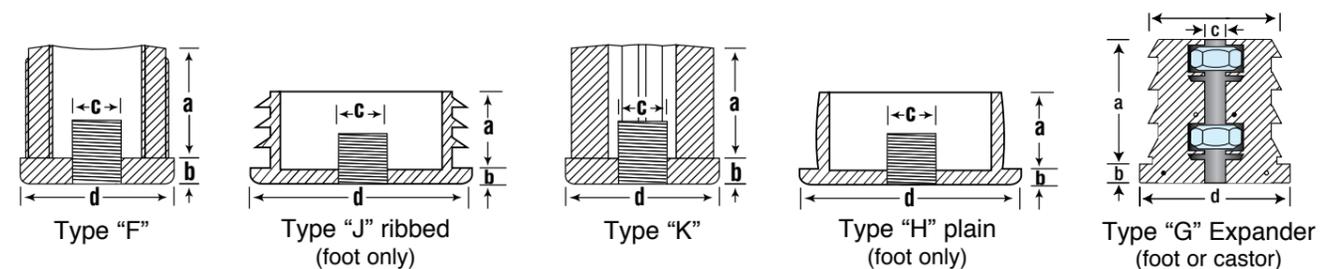
Expanders use the "Rawplug" effect. Expander inserts are made of 2 matching moulded Nylon pieces with 2 hex nuts sitting inside the tapered conical cavities. Tightening a threaded bolt or screw into the Expander for attaching a castor to a square tube presses the hex nuts downward, making the outer walls of the insert move sideways tightly gripping the inner wall of the tube, this is known as the "Rawplug" effect.

- (1) EXPANDERS, when used to attach a castor **MUST have the bolt or screw tightened fully** to allow the insert pieces to expand and grip the inside of the tube
- (2) THREAD STOP, the distance measured from the top of the insert head to the end of the female thread inside the insert.
- (3) *Stainless steel 304 grade threads available for most of the "EXPANDER" range. Stainless Steel 316 grade threads are available if the expanders are near seawater or in the presence of chlorides

DO NOT use ribbed threaded inserts for castor attachment. Use the "expanding" threaded inserts or plain H.I.P. type with adhesive.

SQUARE - threaded tube inserts

PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (mm)	Application	Thread size C (mm)	Type	Shank length a (mm)	Head thick b (mm)	Thread stop (mm)	Max. static load (kg)*	Housing profile	Housing material	Weight (grams)	Thread material
STTi-5768	32 x 32 x 1.2-2	(11/4"x11/4"x18/14g)	foot	M8	ribbed	32	5	34	300	G	nylon	17	nylon
STTi-5864	32 x 32 x 1.2	(11/4" x 11/4" x 18g)	foot or castor	M8	plain	15	7	20	200	H	H.i.P*	12	H.i.P*
STTi-5639	32 x 32 x 1.6-2	(11/4"x11/4"x16/14g)	foot	M8	ribbed	24	5	15	300	J	nylon	14	nylon
STTi-5867	32 x 32 x 1.2	(11/4"x11/4"x18g)	foot or castor	M10	plain	15	7	22	250	H	H.i.P*	12	H.i.P*
SETi-5789	32 x 32 x 1.2-1.6	(11/4"x11/4"x18/16g)	foot or castor	M10	EXPANDER	36	5	37	300	G	nylon	43	mild steel ZP
SETS-5787	32 x 32 x 1.2-1.6	(11/4"x11/4"x18/16g)	foot or castor	M10	EXPANDER	36	5	37	300	G	nylon	43	Stainless Steel
STTi-5405	32 x 32 x 1.6-2	(11/4"x11/4"x16/14g)	foot	M10	ribbed	24	5	15	300	J	nylon	14	nylon
SETi-5406	32 x 32 x 2	(11/4"x11/4"x14g)	foot or castor	M10	EXPANDER	37	5	37	300	G	nylon	45	mild steel ZP
SETi-5804	32 x 32 x 1.2-1.6	(11/4"x11/4"x18/16g)	foot or castor	M12	EXPANDER	36	5	37	300	G	nylon	40	mild steel ZP
SETS-5638	32 x 32 x 1.2-1.6	(11/4"x11/4"x18/16g)	foot or castor	M12	EXPANDER	36	5	37	300	G	nylon	43	Stainless Steel
STTi-5407	32 x 32 x 1.6-2	(11/4"x11/4"x16/14g)	foot	M12	ribbed	24	5	15	300	J	nylon	13	nylon
STTi-5806	32 x 32 x 1.6-2	(11/4"x11/4"x16/14g)	foot	M16	plain	39	6	28	350	F	nylon	48	Stainless Steel
STTi-5427	32 x 32 x 1.6-2	(11/4"x11/4"x16/14g)	foot	M20	plain	80	8	88	500	H	nylon	32	nylon
STTi-5408	35 x 35 x 1.6-2		foot	M8	ribbed	17	5	15	300	G	nylon	17	nylon
SETi-5740	35 x 35 x 1.6		foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	50	mild steel ZP
SETi-5811	35 x 35 x 2		foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	50	mild steel ZP
STTi-5855	35 x 35 x 1.6-2		foot	M10	ribbed	24	5	15	300	J	nylon	18	nylon
SETi-5739	35 x 35 x 1.6		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	45	mild steel ZP
SETi-5784	35 x 35 x 2		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	45	mild steel ZP
STTi-5409	35 x 35 x 1.6-2		foot	M12	ribbed	24	5	15	300	G	nylon	16	nylon
STTi-5410	38 x 38 x 1.6-2	(11/2"x11/2"x16/14g)	foot	M8	ribbed	24	5	15	300	G	nylon	21	nylon
STTi-5411	38 x 38 x 1.6-2	(11/2"x11/2"x16/14g)	foot	M10	ribbed	24	5	15	300	G	nylon	21	nylon
SETi-5805	38 x 38 x 1.6	(11/2"x11/2"x16g)	foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	55	mild steel ZP
SETi-5813	38 x 38 x 1.6	(11/2"x11/2"x16g)	foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	55	Stainless Steel
SETi-5807	38 x 38 x 1.6	(11/2"x11/2"x16g)	foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	52	mild steel ZP
SETi-5413	38 x 38 x 1.6	(11/2"x11/2"x16g)	foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	52	Stainless Steel
STTi-5412	38 x 38 x 1.6-2	(11/2"x11/2"x16/14g)	foot	M12	ribbed	24	5	15	300	J	nylon	20	nylon
STTi-5871	38 x 38 x 2.5	(11/2"x11/2"x12g)	foot or castor	M12	plain	19	8	25	300	H	H.i.P*	20	H.i.P*
SLTi-5809	38 x 38 x 1-1.6	(11/2"x11/2"x20/16g)	foot	M16	plain	41	4	16	200	F	nylon	90	Brass-nickel pit
STTi-5879	38 x 38 x 1.6	(11/2"x11/2"x16g)	foot	M20	plain	41	4	15	500	F	nylon	105	mild steel ZP
STTi-5414	40 x 40 x 1.6-2		foot	M8	ribbed	24	5	15	300	J	nylon	24	nylon
STTi-5777	40 x 40 x 1.6		foot	M10	plain	17	5	18	800	H	zinc	91	zinc diecast
SETi-5812	40 x 40 x 1.6		foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	60	mild steel ZP
STTi-5856	40 x 40 x 1.6-2		foot	M10	ribbed	24	5	15	300	J	nylon	24	nylon
SETi-5415	40 x 40 x 2		foot or castor	M10	EXPANDER	37	5	38	300	G	nylon	60	mild steel ZP
SETi-5416	40 x 40 x 2		foot	M10	plain	17	4	22	800	H	zinc diecast	88	zinc diecast
SETi-5417	40 x 40 x 2.5		foot	M10	plain	15	5	20	500	H	zinc diecast	82	zinc diecast
SETi-5783	40 x 40 x 1.6		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	55	mild steel ZP
STTi-5418	40 x 40 x 1.6-2		foot	M12	ribbed	24	5	15	300	J	nylon	23	nylon
SETi-5423	40 x 40 x 2		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	55	mild steel ZP
STTi-5424	40 x 40 x 1.6-2		foot	M16	ribbed	34	5	20	150	G	nylon	25	nylon
STTi-5849	50 x 50 x 1.6-2		foot	M8	ribbed	24	5	15	300	J	nylon	37	nylon
SETi-5795	50 x 50 x 1.6		foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	90	mild steel ZP
SETS-5788	50 x 50 x 1.6		foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	90	Stainless Steel
STTi-5857	50 x 50 x 1.6-2		foot	M10	ribbed	24	5	15	300	J	nylon	38	nylon
SETi-5869	50 x 50 x 2		foot	M10	plain	32	5	15	300	H	nylon	40	mild steel ZP
SETi-5779	50 x 50 x 2		foot	M10	EXPANDER	36	5	38	300	G	nylon	90	mild steel ZP
STTi-5419	50 x 50 x 2.5		foot	M10	plain	33	5	15	300	G	nylon	42	mild steel ZP
STTi-5420	50 x 50 x 1.6-2		foot	M12	ribbed	24	5	15	300	J	nylon	37	nylon
SETi-5796	50 x 50 x 1.6		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	85	mild steel ZP
SETi-5786	50 x 50 x 2		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	90	mild steel ZP
SETi-5798	50 x 50 x 2.5-3		foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	90	mild steel ZP
STTi-5799	50 x 50 x 1.6-2		foot	M16	ribbed	34	5	22	150	J	nylon	38	nylon
SLTi-5800	50 x 50 x 1.6		foot	M20	plain	44	11	25	600	K	nylon	103	Brass-nickel pit

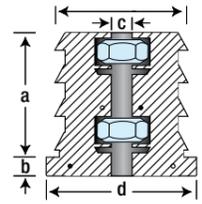


Expanders use the "Rawplug" effect. Expander inserts are made of 2 matching moulded Nylon pieces with 2 hex nuts sitting inside the tapered conical cavities. Tightening a threaded bolt or screw into the Expander for attaching a castor to a square tube presses the hex nuts downward, making the outer walls of the insert move sideways tightly gripping the inner wall of the tube, this is known as the "Rawplug" effect.

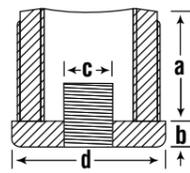
- (1) EXPANDERS, when used to attach a castor **MUST have the bolt or screw tightened fully** to allow the insert pieces to expand and grip the inside of the tube
- (2) THREAD STOP, the distance measured from the top of the insert head to the end of the female thread inside the insert.
- (3) *Stainless steel 304 grade threads available for most of the "EXPANDER" range. Stainless Steel 316 grade threads are available if the expanders are near seawater or in the presence of chlorides

DO NOT use ribbed threaded inserts for castor attachment. Use the "expanding" threaded inserts or plain H.I.P. type with adhesive.

SQUARE threaded tube inserts



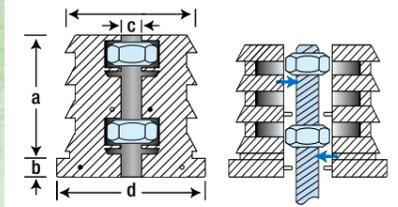
Type "G" Expander (foot or castor)



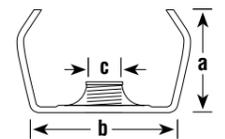
Type "F"



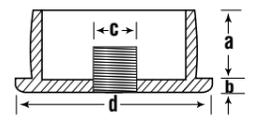
RECTANGLE threaded tube inserts



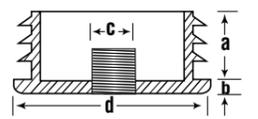
Type "G" Expander (foot or castor)



Type "E" plain



Type "H" plain (foot only)



Type "J" ribbed (foot only)



PART NUMBER	TUBE O/D or size x wall thickness d (mm)	TUBE O/D or size x wall thickness d (mm)	Application	Thread size C (mm)	Type	Shank length a (mm)	Head thick b (mm)	Thread stop (mm)	Max. static load (kg)*	Housing profile	Housing material	Weight (grams)	Thread material
SETi-5782	50.8 x 50.8 x 1.6	(2" x 2"x16g)	foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	75	mild steel ZP
SETs-5421	50.8 x 50.8 x 1.6	(2" x 2"x16g)	foot or castor	M10	EXPANDER	36	5	38	300	G	nylon	75	Stainless Steel
SLTi-5820	50.8 x 50.8 x 1.6-2	(2" x 2"x16/14g)	foot	M10	plain	39	8	28	500	F	nylon	96	Brass-nickel plt
SETi-5794	50.8 x 50.8 x 1.6	(2" x 2"x16g)	foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	95	mild steel ZP
SETs-5422	50.8 x 50.8 x 1.6	(2" x 2"x16g)	foot or castor	M12	EXPANDER	36	5	38	300	G	nylon	95	Stainless Steel
SLTi-5822	50.8 x 50.8 x 1.6-2	(2" x 2"x16/14g)	foot	M12	plain	39	8	28	750	F	nylon	118	Brass-nickel plt
SLTi-5814	50.8 x 50.8 x 1.6-2	(2" x 2"x16/14g)	foot	M16	plain	39	8	15	750	F	nylon	125	Brass-nickel plt
SLTi-5818	50.8 x 50.8 x 1.6-2	(2" x 2"x16/14g)	foot	M20	plain	39	8	15	750	F	nylon	132	Brass-nickel plt

Expanders use the "Rawplug" effect. Expander inserts are made of 2 matching moulded Nylon pieces with 2 hex nuts sitting inside the tapered conical cavities. Tightening a threaded bolt or screw into the Expander for attaching a castor to a square tube presses the hex nuts downward, making the outer walls of the insert move sideways tightly gripping the inner wall of the tube, this is known as the "Rawplug" effect.

- (1) EXPANDERS, when used to attach a castor **MUST have the bolt or screw tightened fully** to allow the insert pieces to expand and grip the inside of the tube
- (2) THREAD STOP, the distance measured from the top of the insert head to the end of the female thread inside the insert.
- (3) *Stainless steel 304 grade threads available for most of the "EXPANDER" range. Stainless Steel 316 grade threads are available if the expanders are near seawater or in the presence of chlorides

DO NOT use ribbed threaded inserts for castor attachment. Use the "expanding" threaded inserts or plain H.I.P. type with adhesive.

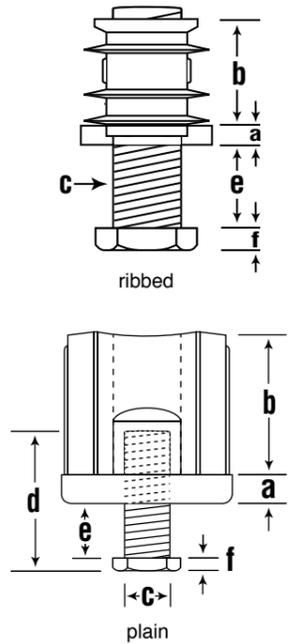
PART NUMBER	TUBE size x wall thickness METRIC d (mm)	Application	Thread size C (mm)	Type	Shank length a (mm)	Head thick b (mm)	Thread stop (mm)	Max. static load (kg)*	Housing profile	Material	Weight (grams)	Thread material
RLTi-5817	50 x 25 x 1-2	foot	M8	ribbed	36	5	28	75	J	PE	14	PE
RLTi-5815	50 x 25 x 1-2	foot	M10	ribbed	13	8	13	75	J	Nylon	32	mild steel ZP
RETi-5862	50 x 25 x 1.6	foot or castor	M10	EXPANDER	38	5	38	300	G	Nylon	43	mild steel ZP
RTSi-5878	50 x 25 x 1.6	foot or castor	M10	EXPANDER	38	5	38	300	G	Nylon	43	Stainless Steel
RTTi-5760	50 x 25 x 1.6-2.5	foot	M10	spring	27	3	5	300	G	mild steel ZP	15	mild steel ZP
RETi-5819	50 x 25 x 2	foot or castor	M10	EXPANDER	32	5	33	300	H	Nylon	43	mild steel ZP
RLTi-5889	50 x 25 x 2	foot	M10	plain	17	5	18	500	E	mild steel ZP	70	mild steel ZP
RETi-5780	50 x 25 x 1.6	foot or castor	M12	EXPANDER	38	5	38	300	G	Nylon	43	mild steel ZP
RLTi-5848	50 x 25 x 1.6-2	foot	M16	ribbed	15	8	15	100	J	Nylon	22	Nylon
RLTi-5816	50 x 30 x 1-2	foot	M10	ribbed	30	5	14	300	J	Nylon	46	mild steel ZP
RETi-5764	50 x 30 x 1-2	foot or castor	M12	ribbed	30	5	14	300	J	Nylon	46	mild steel ZP

Expanders use the "Rawplug" effect. Expander inserts are made of 2 matching moulded Nylon pieces with 2 hex nuts sitting inside the tapered conical cavities. Tightening a threaded bolt or screw into the Expander for attaching a castor to a rectangle tube presses the hex nuts downward, making the outer walls of the insert move sideways tightly gripping the inner wall of the tube, this is known as the "Rawplug" effect.

- (1) EXPANDERS, when used to attach a castor **MUST have the bolt or screw tightened fully** to allow the insert pieces to expand and grip the inside of the tube
- (2) THREAD STOP, the distance measured from the top of the insert head to the end of the female thread inside the insert.
- (3) *Stainless steel 304 grade threads available for most of the "EXPANDER" range. Stainless Steel 316 grade threads are available if the expanders are near seawater or in the presence of chlorides

DO NOT use ribbed threaded inserts for castor attachment. Use the "expanding" threaded inserts or plain H.I.P. type with adhesive.

THREADED inserts + adjustable foot



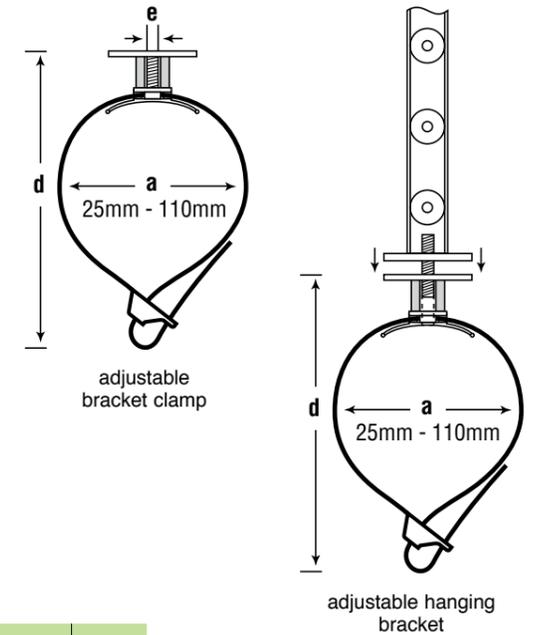
PART NUMBER	Tube O/D or size x wall thickness metric (mm)	Tube O/D or size x wall thickness imperial (inches)	tube insert head thickness a (mm)	Insert shank length b (mm)	Tube insert type	Foot thread C (mm)	Foot thread length d (mm)	Max thread travel e (mm)	Foot head thickness f (mm)	Axial load (kg)	Weight (grams)
Non-tilt levelling foot, SQUARE tube inserts with height adjustable foot											
STAi-5663	20 x 20 x 1.6-2		5	26	rib	M12	32	20	5	100	12
STAi-5754	22 x 22 x 1.6-2	7/8" x 7/8" x 16/14g	5	26	rib	M12	52	30	5	100	12
STAi-5880	25 x 25 x 1.6-2		5	20	rib	M16	60	35	5	150	15
STAi-5751	25.4 x 25.4 x 1.6-2	1" x 1" x 16/14g	8	62	plain	M16	30	20	5	150	30
STAi-5881	30 x 30 x 1.6-2		5	20	rib	M22	60	35	5	300	19
STAi-5886	32 x 32 x 1.6	1 1/4" x 1 1/4" x 16g	7	38	plain	M16	30	20	5	300	50
STAi-5882	35 x 35 x 1.6-2		5	30	rib	M22	60	25	5	300	25
STAi-5887	38 x 38 x 1.6	1 1/2" x 1 1/2" x 16g	8	37	plain	M16	30	20	5	300	76
STAi-5883	40 x 40 x 1.6-2		5	30	rib	M22	60	25	5	300	32
STAi-5884	50 x 50 x 1.6-2		5	30	rib	M30	30	20	5	300	43
STAi-5885	50.8 x 50.8 x 1.6	2" x 2" x 16g	10	37	plain	M16	30	20	5	300	110
STAi-5889	50.8 x 50.8 x 2	2" x 2" x 14g	10	37	plain	M16	30	20	5	300	110

PART NUMBER	Tube O/D or size x wall thickness metric (mm)	Tube O/D or size x wall thickness imperial (inches)	tube insert head thickness a (mm)	Insert shank length b (mm)	Tube insert type	Foot thread C (mm)	Foot thread length d (mm)	Max thread travel e (mm)	Foot head thickness f (mm)	Axial load (kg)	Weight (grams)
Non-tilt levelling foot, ROUND tube inserts with height adjustable foot											
RTAi-5752	20 x 1-1.6		5	27	rib	M12	50	30	5	100	15
RTAi-5753	22 x 1-1.6	7/8" x 20/16g	5	27	rib	M12	50	30	5	100	15
RTAi-5775	25 x 1.6		11	27	plain	M16	40	30	8	150	18
RTAi-5776	25.4 x 1.6	1" x 16g	8	62	plain	M16	30	20	5	300	30
RTAi-5777	25 x 2		11	34	plain	M16	30	20	5	150	18
RTAi-5778	30 x 1.6-2		11	34	rib	M16	30	20	5	150	25
RTAi-5779	30 x 2-2.5		11	34	rib	M16	30	20	5	150	28
RTAi-5840	32 x 1.6-2	1 1/4" x 16/14g	5	20	rib	M22	60	35	5	300	16
RTAi-5841	35 x 1.6-2		5	30	rib	M22	60	25	5	300	22
RTAi-5842	38 x 1.6-2	1 1/2" x 16/14g	5	30	rib	M22	60	25	5	300	25
RTAi-5843	40 x 1.6-2		5	30	rib	M22	60	25	5	300	28
RTAi-5844	42 x 1.6-2 and 42.4 x 2		5	30	rib	M30	30	20	5	300	35
RTAi-5845	48 x 1.6-2 and 48.3 x 2		5	30	rib	M22	60	25	5	300	33
RTAi-5846	50 x 1.6-2		5	30	rib	M30	30	20	5	300	36
RTAi-5792	50.8 x 1.6	2" x 16g	11	43	plain	M16	30	20	5	300	82
RTAi-5793	50.8 x 2	2" x 14g	11	43	plain	M16	30	20	5	300	82
RTAi-5847	60 x 1.6-2 and 60.3 x 2		6	35	rib	M42	40	20	10	300	65

PART NUMBER	Tube O/D or size x wall thickness metric (mm)	Tube O/D or size x wall thickness imperial (inches)	tube insert head thickness a (mm)	Insert shank length b (mm)	Tube insert type	Foot thread C (mm)	Foot thread length d (mm)	Max thread travel e (mm)	Foot head thickness f (mm)	Axial load (kg)	Weight (grams)
Non-tilt levelling foot, RECTANGLE tube inserts with height adjustable foot											
RCAi-5890	50 x 25 x 1.6-2		5	32	rib	M16	30	20	5	300	25

MATERIALS : PE (polyethylene), PA (Nylon), Stainless steel

ROUND tube saddles & clamps



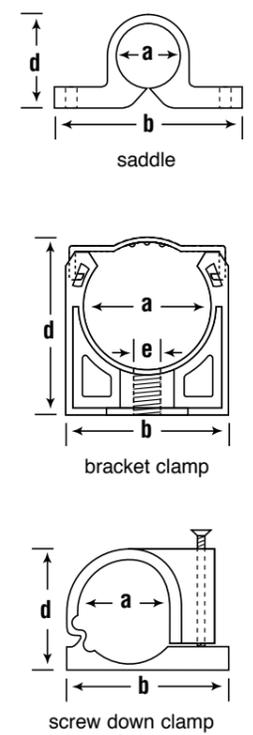
PART NUMBER	Tube O.D. metric a (mm)	Tube O.D. imperial a (inches)	Width b (mm)	Depth c (mm)	Height d (mm)	No. & fixing hole dia e (mm)	Colour	Weight (grams)
ROUND tube "saddles"								
RPS-3700	12.7	1/2"	44	13	12.5	2 x 4.5	light brown	2
RPS-3701	16	5/8"	47	13	22	2 x 4.5	light brown	3
RPS-3702	16		47	13	22	2 x 4.5	grey	3
RPS-3703	19	3/4"	51	13	25	2 x 4.5	light brown	3
RPS-3704	20		51	13	26	2 x 4.5	black	3
RPS-3705	22		51	13	29	2 x 4.5	grey	4
RPS-3706	25		58	13	33	2 x 4.5	black	4
RPS-3707	25.4	1"	58	13	33	2 x 4.5	light brown	6

PART NUMBER	Tube O.D. metric a (mm)	Tube O.D. imperial a (inches)	Width b (mm)	Depth c (mm)	Height d (mm)	No. & fixing hole dia e (mm)	Colour	Weight (grams)
ROUND tube bracket clamp, with M10 fixing hole								
RPBC-3715	32		47	20	49	2 x M10(zp)	black	24
RPBC-3716	40		58	20	60	2 x M10(zp)	black	30
RPBC-3717	50		70	20	70	2 x M10(zp)	black	30
RPBC-3718	63		83	20	84	2 x M10(zp)	black	40

PART NUMBER	Tube O.D. metric a (mm)	Tube O.D. imperial a (inches)	Width b (mm)	Depth c (mm)	Height d (mm)	No. & fixing hole dia e (mm)	Colour	Weight (grams)
ROUND tube "screw down" clamp, with metal "TEK" screw								
RSDC-3730	12.7	1/2"	28	16	20	1	light brown	5
RSDC-3731	16		32	28	24	1	grey	7
RSDC-3732	19.05	3/4"	35	16	22	1	light brown	7
RSDC-3733	20		35	16	27	1	black	7
RSDC-3734	25		32	18	24	1	black	7
RSDC-3735	25.4	1"	44	14	31	1	light brown	8

PART NUMBER	Tube O.D. metric a (mm)	Tube O.D. imperial a (inches)	Width b (mm)	Depth c (mm)	Height d (mm)	No. & fixing hole dia e (mm)	Colour	Weight (grams)
ADJUSTABLE diameter round tube bracket clamp								
RPBA-3740	25mm to 110mm		up to 150	40	up to 150	1 x M10(nylon)	black	22
ADJUSTABLE diameter round tube hanging bracket								
RPBA-3741	25mm to 110mm		up to 150	40	up to 575	1 x M10(nylon)	black	92

(a) maximum load for RPBA's is 25kgs
 (b) the hanging bracket has a 450mm long "stick" attached, with 3mm dia. countersunk fixing holes spaced at 25mm intervals, so the "stick" can be cut to your required length for hanging.



THREADED inserts + adjustable foot

ROUND tube saddles & clamps

"T" nuts, insert & skein nuts

PART NUMBER	Screw thread size a (mm)	Height or length of nut b (mm)	Sleeve O/D c (mm)	Flange or outside diameter d (mm)	Height of prongs e (mm)	Material thickness (mm)	Weight (grams)
T nuts, "drive-in": mild steel zinc plated							
TDMi-4005	M6	9	7.5	19	7	1.2	4
TDii-4011	1/4"	9	8	19	6	1.2	4
TDii-4012	5/16"	11	9	22	11	1.6	5
TDMi-4006	M8	17	9.9	22	9.5	1.6	9
TDii-4013	3/8"	13	11	25	8.5	1.6	9
TDMi-4007	M10	16	12	25	11	1.8	11.4
TDMi-4008	M12	15	13.7	27	9.5	1.8	11.4
TDMi-4009	M16	16	20	60 x 56	11	3	76
TDMi-4010	M20	16	23	60 x 56	11	3	76

T nuts, "drive-in": stainless steel 304 grade							
TDSi-4025	M6	12	7.5	19	7	1.25	4.7
TDSi-4030	1/4"	9	8	19	7	1.25	3
TDSi-4031	5/16"	11	10	22	10	1.4	7
TDSi-4026	M8	11	9.7	22	7.5	1.5	6.2
TDSi-4032	3/8"	12.5	11	25	10	1.4	7.0
TDSi-4027	M10	12	11.4	25	9	1.5	8

T nuts, "weld-on": mild steel zinc plated							
TWmi-4035	M6	8.5	8	22 x 14	n/a	1.45	4.3
TWmi-4041	1/4"	9	8	19 x 8	n/a	1.4	4
TWmi-4042	5/16"	12	10	26 x 11	n/a	1.4	6
TWmi-4036	M8	10	10	26 x 18	n/a	1.8	7.6
TWmi-4043	3/8"	13	12	26 x 13	n/a	1.6	9
TWmi-4037	M10	10.5	12	26 x 18	n/a	1.9	8
TWmi-4038	M12	12.5	14	29 x 20.5	n/a	2.2	12
TWmi-4039	M16	16	21	60 x 56	n/a	3	76
TWmi-4040	M20	16	23.5	60 x 56	n/a	3	74

T nuts, "weld-on": stainless steel 304 grade							
TWSi-4045	M6	8.5	7.5	22 x 14	n/a	1.25	3.7
TWSi-4048	1/4"	9	8	21 x 14	n/a	1.2	4
TWSi-4049	5/16"	11	9	26 x 12	n/a	1.2	5
TWSi-4046	M8	11	9.7	26 x 18	n/a	1.5	6.8
TWSi-4050	3/8"	12	11	25 x 19	n/a	1.6	8
TWSi-4047	M10	10.5	11.5	26 x 18	n/a	1.5	6.7

NOTES for mild steel "T"nuts:
 (a) available in sizes from M4 up to M24. (b) above are supplied galvanized, 5um, blue chromatic.
 (c) above can supplied in raw finish on order. (d) #'s 4009, 4010, 4039 and 4040 have 2 x5.5mm id fixing holes.

MATERIALS:
 (1) Mild steel "T"nuts use cold rolled uncoated low carbon narrow strip steel for colf forming EN10139 (DIN1624).
 (2) Stainless Steel "T"nuts use cold rolled stainless steel narrow strip EN10088-2-1.4301 (X5CrNi18-10).

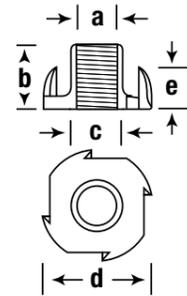
Insert nuts, "flanged", cone shaped							
INMF-4015	M6	20	12	14	9mm inside hex	5	
INiF-4016	1/4"	20	12	14	9mm inside hex	5	
INiF-4017	5/16"	13	14.5	17	10mm inside hex	9	
INMF-4018	M8	20	14.5	17	10mm inside hex	10	

Insert nuts, "no flange", cone shaped							
INNF-4020	M6	20	11	14	M6 hex inside	6	
INNF-4021	M8	20	14.5	15	M8 hex inside	9	

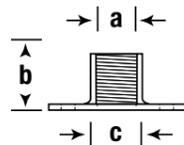
Skein nut							
SKNi-4023	3/8"	20	14.5	18	with flat blade screw driver slot	10	

Threaded insert, knock-in type							
RTiM-4055	M8	16	11	14	mild steel ZP, knurled	9	
RTiM-4056	M8	18	11	19	mild steel ZP, ribbed	8	
RTiM-4058	M10	12	12.5	18 x 2mm thick	mild steel ZP, knurled	6	
RTiM-4059	M10	17	13	22.5	mild steel ZP, ribbed	11	
RTiM-4060	M10	18	12.8	18 x 2mm thick	mild steel ZP, knurled	12	

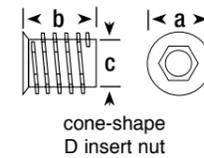
for use in 4 & 5 leg Nylon, alloy or aluminium bases to convert from castors to M8 or M10 thread levelling feet



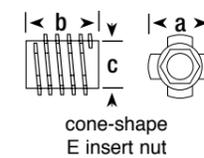
steel "T" nut drive in



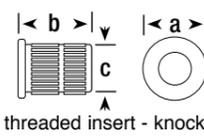
steel "T" nut weld on



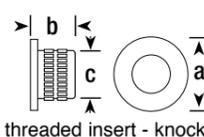
cone-shape D insert nut



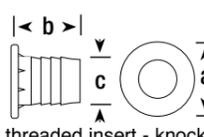
cone-shape E insert nut



threaded insert - knock-in



threaded insert - knock-in



threaded insert - knock-in



SQUARE tube "plug-in" connectors

- welded steel tube core

connectors

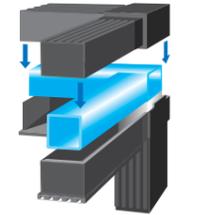
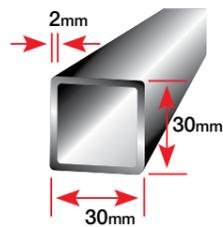
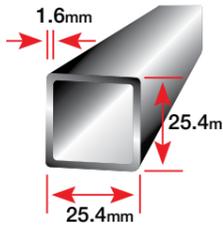
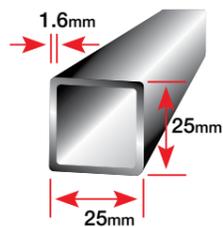
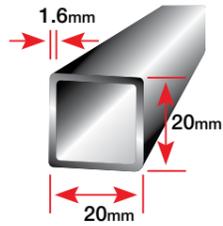
IMPORTANT:
Debur and file down any internal tube seams before assembly to ensure a clean fit.

PART NUMBER	Number of legs	Description	Shank length (mm)	Weight (grams)
fits 20mm x 20mm x 1.6mm tube ONLY				
SPiC-2650	2	2 ways, standard right angle	36	48
SPiC-2651	3	3 ways, "T" piece	36	65
SPiC-2652	4	4 ways, "cross" piece	36	85
SPiC-2653	3	2+1 ways, 3 direction right angle	36	65
SPiC-2654	4	3+1 ways, 4 direction right angle	36	83
SPiC-2655	5	4+1 ways, 5 direction right angle	36	105
SPiC-2656	6	6 ways, 6 direction right angle	36	125
SPiC-2657	2	1 way, straight or lengthening	45	100
SPIA-2659	2	2 legs adjustable, 0-190°	35	60
SPIA-2660	3	2 legs adjustable, 1 fixed, 0-190°	35	80
SPIA-2661	4	2 legs adjustable, 2 fixed, 0-190°	35	100
STMG-2674	tube	500mm x 20mm x 20mm x 1.6mm, mild steel gal.		450
STMG-2673	tube	1metre x 20mm x 20mm x 1.6mm, mild steel gal.		900

PART NUMBER	Number of legs	Description	Shank length (mm)	Weight (grams)
fits 25mm x 25mm x 1.6mm tube ONLY				
SPiC-2560	2	2 ways, standard right angle	50	90
SPiC-2561	3	3 ways, "T" piece	50	135
SPiC-2562	4	4 ways, "cross" piece	53	175
SPiC-2563	3	2+1 ways, 3 direction right angle	50	135
SPCT-2573	3	2+1 ways, 3 direction right angle, with M10 thread for foot or castor	50	130
SPiC-2564	4	3+1 ways, 4 direction right angle	55	175
SPCT-2574	4	3+1 ways, 3 direction right angle, with M10 thread for foot or castor	55	165
SPiC-2565	5	4+1 ways, 5 direction right angle	55	215
SPiC-2566	6	6 ways, 6 direction right angle	55	250
SPiC-2567	2	1 way, straight or lengthening	53	105
SPIA-2570	2	2 legs adjustable, 45°-195°	38	75
SPIA-2571	3	2 legs adjustable, 1 fixed, 45°-195°	38	95
SPIA-2572	4	2 legs adjustable, 2 fixed, 45°-195°	38	115
STMG-2587	tube	1metre x 25mm x 25mm x 1.6mm, mild steel gal.		1.07kg
STMG-2588	tube	2metre x 25mm x 25mm x 1.6mm, mild steel gal.		2.14kg
SACA-2675	tube	450mm x 25mm x 25mm x 1.6mm, clear anodised aluminium		170
SACA-2676	tube	600mm x 25mm x 25mm x 1.6mm, clear anodised aluminium		230
SACA-2679	tube	900mm x 25mm x 25mm x 1.6mm, clear anodised aluminium		340
SACA-2677	tube	1200mm x 25mm x 25mm x 1.6mm, clear anodised aluminium		480
SACA-2678	tube	1800mm x 25mm x 25mm x 1.6mm, clear anodised aluminium		680

PART NUMBER	Number of legs	Description	Shank length (mm)	Weight (grams)
fits 25.4mm x 25.4mm x 1.6mm (1"x1"x16g) tube ONLY mainly used for Stainless Steel tube				
SiCB-2568 black	3	2+1 ways, 3 direction right angle	50	145
SiCG-2569 grey	3	2+1 ways, 3 direction right angle	50	145
SSST-2597	tube	1metre x 25.4mm x 25.4mm x 1.6mm Stainless Steel 304 grade		1.1kg
SSST-2598	tube	2metre x 25.4mm x 25.4mm x 1.6mm Stainless Steel 304 grade		2.2kg

PART NUMBER	Number of legs	Description	Shank length (mm)	Weight (grams)
fits 30mm x 30mm x 2mm tube ONLY				
SPiC-2600	2	2 ways, standard right angle	47	115
SPiC-2601	3	3 ways, "T" piece	47	160
SPiC-2602	4	4 ways, "cross" piece	47	205
SPiC-2603	3	2+1 ways, 3 direction right angle	47	160
SPCT-2608	3	2+1 ways, 3 direction right angle, with M10 thread for foot or castor	47	155
SPiC-2604	4	3+1 ways, 4 direction right angle	47	205
SPCT-2609	4	3+1 ways, 3 direction right angle, with M10 thread for foot or castor	47	200
SPiC-2605	5	4+1 ways, 5 direction right angle	47	235
SPiC-2606	6	6 ways, 6 direction right angle	47	288
SPiC-2607	2	1 way, straight or lengthening	50	100
SPIA-2610	2	2 legs adjustable, 60° - 300°	41	100
STMG-2611	tube	1metre x 30mm x 30mm x 2mm, mild steel gal.		1.65kg
STMG-2612	tube	2metre x 30mm x 30mm x 2mm, mild steel gal.		3.3kg



Steel core with Nylon outer

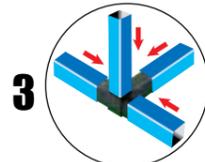
Design and assemble benches, shelves etc. using Flexliners connectors, tubing and our many accessories



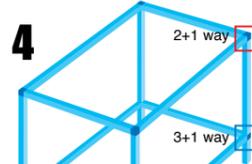
3+1 way plug-in connector



tubing



Push the connector into the tube



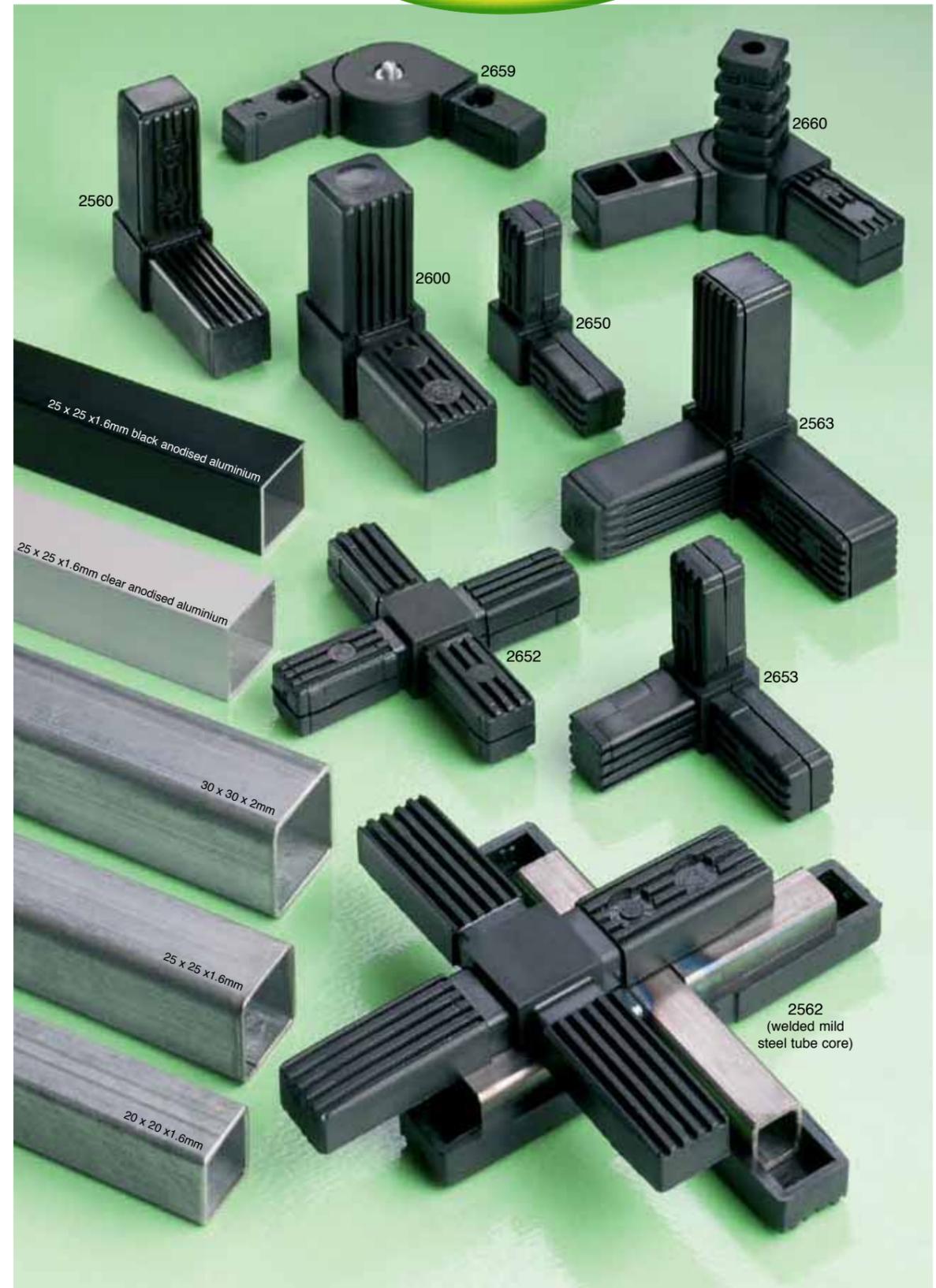
2+1 way
3+1 way



Levelling foot with threaded insert
Castor

MATERIAL: Heavy duty connectors ("SPiC") are made of 2 interlocking Nylon halves (the outers), with a inside core which is made of welded mild steel tube. 15mm x 15mm x 1.6mm for 25mm, 25.4mm and 30mm square tube. 10mm x 10mm x 1mm for 20mm square tube.

Adjustable angle connectors: ("SPIA") are all Nylon, no steel tube core. Held together with zinc plated socket head screw and nut.



SQUARE tube plug-in connectors

SQUARE tube plug-in connectors

SQUARE tube "plug-in" all nylon

connectors

IMPORTANT:
Debur and file down any internal
tube seams before assembly
to ensure a clean fit.

PART NUMBER	Number of legs	Description	Stock colour	Shank length (mm)	Weight (grams)
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fits 25mm x 25mm x 1.6mm tube ONLY

SNCB-2613	2	2 ways, standard right angle	black	52	34
SNCB-2614	3	3 ways, "T" piece	black	51	43
SNCB-2615	4	4 ways, "cross" piece	black	54	56
SNCB-2616	3	2+1 ways, 3 direction right angle	black	52	45
SNCB-2617	4	3+1 ways, 4 direction right angle	black	52	55
SNCB-2618	5	4+1 ways, 5 direction right angle	black	54	65
SNCB-2586	6	6 ways, 6 direction right angle	black	52	85

light Grey (RAL 7035)

SNCG-2580	2	2 ways, standard right angle	grey	52	34
SNCG-2581	3	3 ways, "T" piece	grey	51	43
SNCG-2582	4	4 ways, "cross" piece	grey	54	56
SNCG-2583	3	2+1 ways, 3 direction right angle	grey	52	45
SNCG-2584	4	3+1 ways, 4 direction right angle	grey	52	55
SNCG-2585	5	4+1 ways, 5 direction right angle	grey	54	65
SPIC-2566	6	6 ways, 6 direction right angle	grey	55	35

fixed angle corners- fits 25mm x 25mm x 1.6mm ONLY

SNFA-2575	2	2 ways, fixed 135° angle (octagon)	black	30	38
SNFA-2576	2	2 ways, fixed 135° angle (octagon)	black	43	34
SNFA-2577	2	2 ways, fixed 120° angle (hexagon)	black	43	40

important: Only use mitred tube end for # 2575, 2576 & 2577 connectors. The tube ends will then butt join. The connectors have 4 x fixing holes moulded into them, 2 of which have internal hex nut locations.

square metal tube

STMG-2587	tube	1 metre x 25mm x 25mm x 1.6mm, mild steel gal.	1.07kg
STMG-2588	tube	2 metre x 25mm x 25mm x 1.6mm, mild steel gal.	2.14kg
SACA-2675	tube	450mm x 25mm x 25mm x 1.6mm, clear anodised aluminium	170
SABA-2675B	tube	450mm x 25mm x 25mm x 1.6mm, black anodised aluminium	170
SACA-2676	tube	600mm x 25mm x 25mm x 1.6mm, clear anodised aluminium	230
SABA-2676B	tube	600mm x 25mm x 25mm x 1.6mm, black anodised aluminium	230
SACA-2679	tube	900mm x 25mm x 25mm x 1.6mm, clear anodised aluminium	340
SABA-2679B	tube	900mm x 25mm x 25mm x 1.6mm, black anodised aluminium	340
SACA-2677	tube	1,200mm x 25mm x 25mm x 1.6mm, clear anodised aluminium	480
SABA-2677B	tube	1,200mm x 25mm x 25mm x 1.6mm, black anodised aluminium	480
SACA-2678	tube	1,800mm x 25mm x 25mm x 1.6mm, clear anodised aluminium	680
SABA-2678B	tube	1,800mm x 25mm x 25mm x 1.6mm, black anodised aluminium	680

Also available, but not held in stock, are nylon connectors for: (a) 25mm x 25mm x 2mm tube. (b) 30mm x 30mm x 1.6mm minimum order quantities apply.

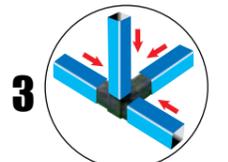
Design & assemble benches, shelves etc. using Flexliners connectors, tubing and our many accessories



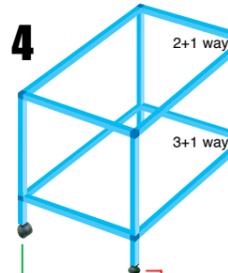
3+1 way plug-in connector



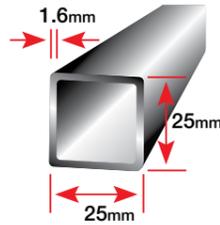
tubing



Push the connector into the tube



2+1 way
3+1 way



Castor - option

Firstly, determine max load

(a) Threaded tube insert

use only square "expanding" threaded tube inserts for fitting castors. These have a max. load of 300kgs

- for 20mm x 20mm x 1.6mm use STTI-5838, with M8 thread
- for 25mm x 25mm x 1.6mm use STTI-5801, with M10 thread
- for 30mm x 30mm x 2.0mm use STTI-5859, with M10 thread

(b) Castors

different types can be used, depending on load

- (1) up to 50kgs, use CSTS-7202 twin wheel, 50mm dia. free rolling or with foot brake CFBS-7211
- (2) above 50kgs, will require a single wheel bolt hole castor

IMPORTANT: fixing bolt or pintals MUST BE M10 x 50mm or longer to make the expanding insert operate properly



Castor

Levelling foot - option

Up to 300kgs max. static load

(a) Threaded tube insert

- for 20mm x 20mm x 1.6mm use STTI-5838, with M8 thread
- for 25mm x 25mm x 1.6mm use STTI-5853, with M10 thread
- for 25.4mm x 25.4mm x 1.6mm use STTI-5853, with M10 thread
- for 30mm x 30mm x 2mm use STTI-5859, with M10 thread

(b) Rigid levelling foot

for all threaded inserts above use RRAF-5210, has 500kgs max. static load rating

Many other tilting and non-tilting levelling feet are available, subject to their load rating. Call us if you have queries.

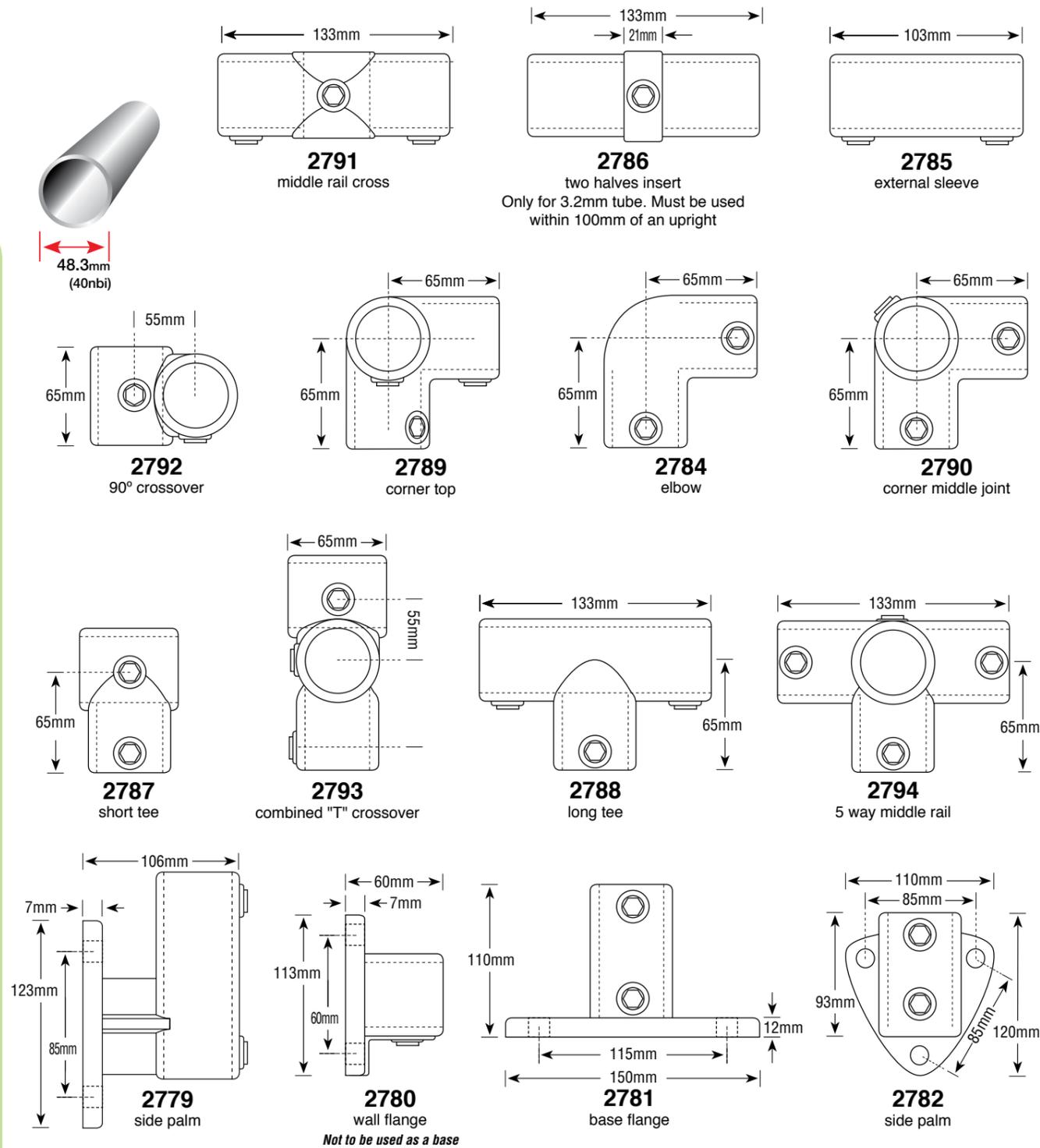


Levelling foot with threaded insert

ROUND tube "clamping" connectors

for 40nbi (48.3mm od) tube

connectors



IMPORTANT
Please ensure whatever is made using the tube clamps is safe and able to support the weight of the component parts (clamps + tube) and any load applied.
Please do not weld the tube clamps or use them to make scaffolding

MATERIALS: malleable iron made to conform to BS EN 1562:1997 and ASTM 47 then hot dip galvanized (HDG) to BS EN ISO 1461: 1999.
Set screws: are made of steel #45, corrosion protected with DECROMAT surface finish. Tighten all set screws to 4kgm / 39Nm, a ratchet or tension wrench may be required.

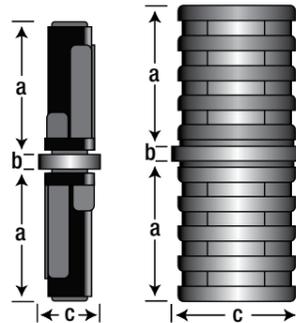
PART NUMBER	TUBE O/D or size x wall thickness C (mm)	Shank length a (mm)	Divider thickness b (mm)	Steel tube re-inforcement core size (mm)	Weight (grams)
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Square tube "plug-in" lengthening connectors

SLCS-2620	20 x 20 x 1.6	43	5	10x10x1.6, 86mm long	50
SLCS-2622	25 x 25 x 1.6	38	5	10x10x1.6, 71mm long	50
SLCS-2624	30 x 30 x 1.6	46	5	10x10x1.6, 86mm long	90

Round tube "plug-in" lengthening connectors

RLCS-2630	20 x 1.6	36	5	10x10x1.6-71mm long	35
RLCS-2631	22 x 1.6	36	5	8 od x 1-75mm long	40
RLCS-2632	25 x 1.6	38	5	10x10x1.6-71mm long	45
RLCS-2633	30 x 1.6	48	5	20 od x 1-95mm long	70
RLCS-2634	32 x 1.6	72	5	15x15x1.6-140mm long	72
RLCS-2635	33.7 x 3.25	36	5	15x15x1.6- 70mm long	70
RLCS-2640	48.3 x 3.2	50	5	20 od x 1-95mm	125
RLCS-2641	50 x 1.6	47	5	20 od x 1-95mm	145



Round tube adjustable angle connectors

for 30mm od x 2mm tube ONLY.



PART NUMBER	Number of legs	Description	Shank length a (mm)	Fixed expander joint b (mm)	Weight (grams)
RATJ-2680	2	2 ways, 45° to 200°	41	n/a	75
RATJ-2681	3	2+1 ways, 1 fixed, 2 ways 45° to 200°	41	42	98
RATJ-2682	4	2+2 ways, 2 fixed, 2 ways 45° to 200°	41	42	122

MATERIAL: black Nylon. Centre: mild steel ZP socket head cap screw and hex nut

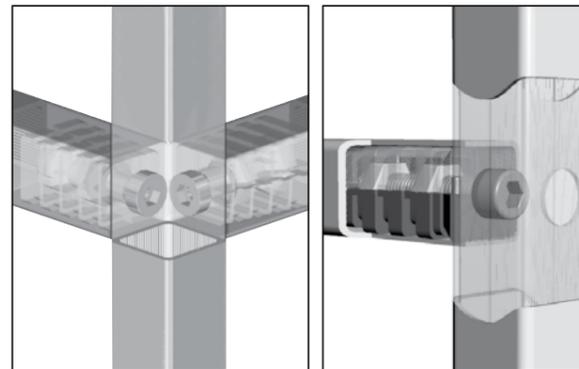
Right angle and butt joining "EXPANDER" inserts

for butt joining tube ends together at a right angle or as a straight run. Requires M8 or M10 mild steel screw or threaded rod.

PART NUMBER	TUBE O/D or size x wall thickness C (mm)	Shank length a (mm)	Internal thread size b (mm)	Weight (grams)
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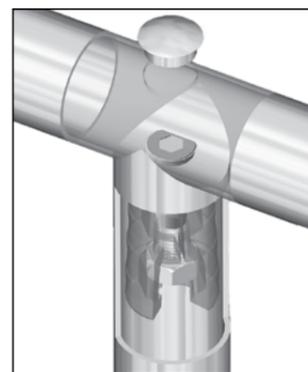
Square "expander" tube insert

SEBJ-3170	20 x 20 x 1.6	42	M8	18
SEBJ-3171	22 x 22 x 1.6	42	M8	20
SEBJ-3172	25 x 25 x 1.6	42	M10	30
SEBJ-3173	30 x 30 x 1.6	42	M10	45
SEBJ-3188	30 x 30 x 2	42	M10	43



Round "expander" tube insert

REBJ-3167	16 x 1	42	M6	8
REBJ-3168	19 x 1.6	42	M6	11
REBJ-3169	20 x 1.6	42	M8	13
REBJ-3174	20 x 2	42	M8	14
REBJ-3175	22 x 1.6	42	M8	15
REBJ-3176	25 x 1.6	42	M8	18
REBJ-3177	30 x 1.6	42	M10	30
REBJ-3178	30 x 2	42	M8	30
REBJ-3179	32 x 1.2	42	M6	27
REBJ-3190	32 x 1.6	42	M10	39
REBJ-3194	32 x 2	42	M6	25
REBJ-3193	32 x 1.2	42	M10	48
REBJ-3191	38 x 1.6	42	M10	54
REBJ-3192	50 x 1.6	40	M10	68



Expanders use the "Rawlplug" effect, Expander inserts are made of 2 matching moulded Nylon pieces with 2 hex nuts sitting inside the tapered conical cavities. Tightening a threaded rod into the Expander presses the hex nuts downward, making the outer walls of the insert move sideways tightly gripping the inner wall of the tube, this is known as the "Rawlplug" effect.



MODULAR bases & frame components

PART NUMBER	Base diameter a (mm)	Base height (without foot) b (mm)	Number and angle of legs	Centre hole depth d (mm)	Leg foot thread E (mm)	Weight (kg)
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MODULAR frame bases, suits 50.8 (2") or 50mm O.D. tube ("c")

MFB-7396	500	145	2 leg convex - 180°	85	M16	1.2
MFB-7397	500	145	2 leg convex - 180°, with connector	85	M16	1.3
MFB-7398	500	145	2 leg convex - 120°, with connector	85	M16	1.3
MFB-7399	500	145	3 leg convex - 120°	85	M16	1.4

the modular frame bases are constructed of fibreglass reinforced Nylon. Securing bolts, hex nuts & washers are Stainless Steel.

5 leg bases, suits 50.8 (2") tapered end tube

BNFC-7412	585	100	5 leg convex, glass filled Nylon	65	11	1.3
BMFF-7409	600	60	5 leg flat, all metal, P/coat	55	M10	1.7
BNFC-7413	660	100	5 leg convex, glass filled Nylon	65	11	1.6
BAFC-7414	700	90	5 leg convex, alloy, polished	55	11	1.7
BNFF-7402	700	80	5 leg flat, glass filled Nylon	75	11	2

"BOLT DOWN" pedestal base

BMPF-7401	250	95	Round, mild steel, P/coat finish	85	4 x 8mm	6
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- (a) pedestal bases **MUST** be securely bolted to the floor at the fixing points before use.
- (b) the 5 leg bases can be fitted with levelling feet, glides or castors by using an 11mm pintal with circlip or thread with nut-sert fitting.
- (c) the centre hole of the 5 leg bases will accept a 50.8mm dia. swaged tube end (part No. 7435 & 7436) or a standard gaslift column.
- (d) when fitting the swaged tube end into a 50.8mm i.D centre hole we recommend using adhesive to maintain a positive taper lock.
- (e) smaller diameter FLAT - 5 leg bases available on application.

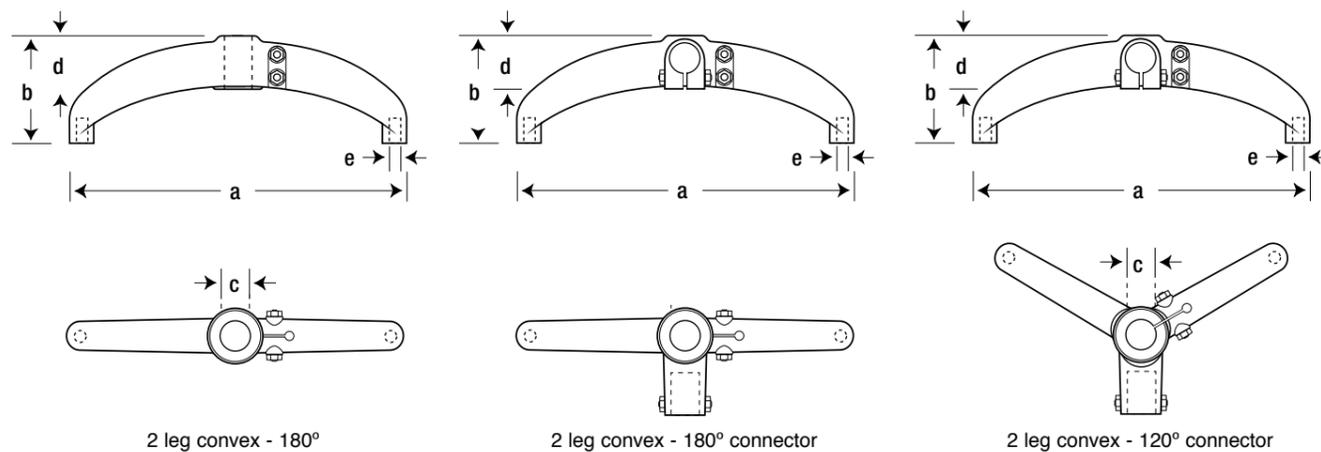
ROUND columns, (tubes) for 5 leg bases

RSET-7435	685mm long, 50.8mm dia. mild stel powder coated tube, both tube ends swaged to fit 50.8mm centre hole	1.3
RSET-7436	710mm long, 50.8mm dia. mild stel powder coated tube, both tube ends swaged to fit 50.8mm centre hole	1.3

we can supply tube cut to your required length, subject to minimum order conditions. Stainless Steel tube also available.

TUBE collars and top plates

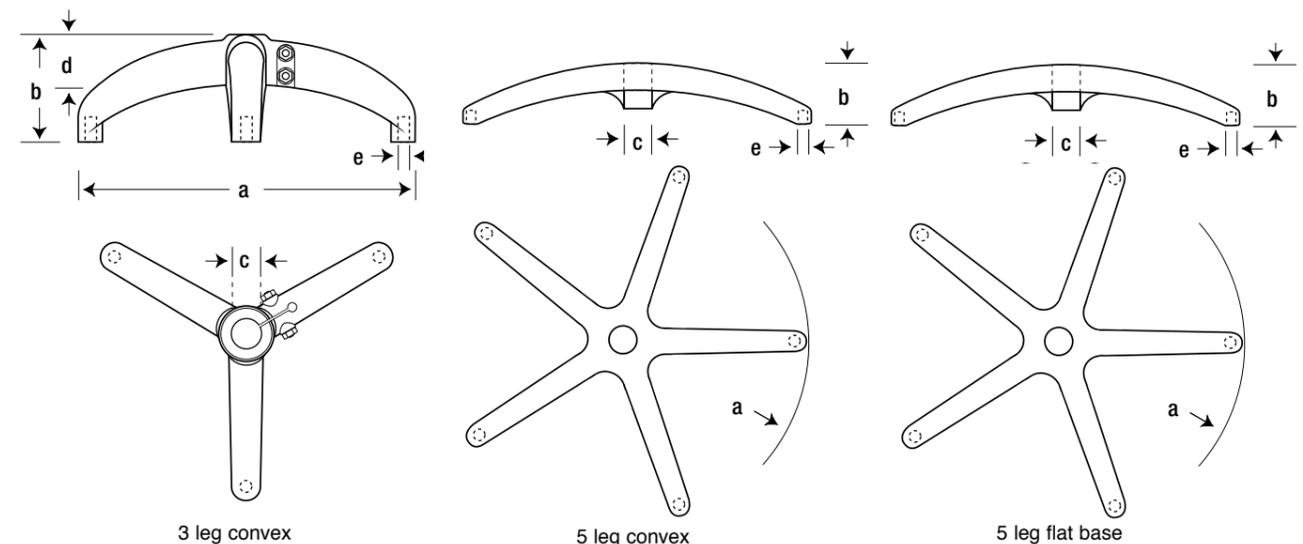
MFTC-7425	TOP COLLAR, 95mm x 95mm, Suits 50mm & 50.8mm O.D. tube. Internal collar hole 70mm deep. Glass filled Nylon with Stainless steel bolts and hex nuts.	1.3
MFCC-7428	CONNECTING COLLAR, attaches to 50mm or 50.8mm O.D. tube to connect at 90o to 42mm O.D. tube frame support. Glass filled Nylon with Stainless steel bolts and hex nuts.	1
BTP-7426	TOP PLATE with centre cone & handwheel. fits 50.8mm swaged tube end, 510mm x 510mm mild steel plate with alloy braces, 4 fixing hole 6.5mm O.D. powder coated black.	0.9
BTCS-7427	TOP "CROSS" SUPPORT, 4 x 260mm radii arms 25mm angle iron frame with centre cone powder coated black, to fit 50.8mm swaged tube end. 8 x 6.5mm dia. fixing holes, 2 per arm.	1.6
BCB-7432	CONVERSION BUSH, the tapered Nylon bush fits firmly into the 50.8mm dia centre hole in bases. Bush has a centre hole to suit 25mm O.D. tube.	40gms



2 leg convex - 180°

2 leg convex - 180° connector

2 leg convex - 120° connector



3 leg convex

5 leg convex

5 leg flat base

STAINLESS STEEL

single wheel - plate or bolt

castors

hole

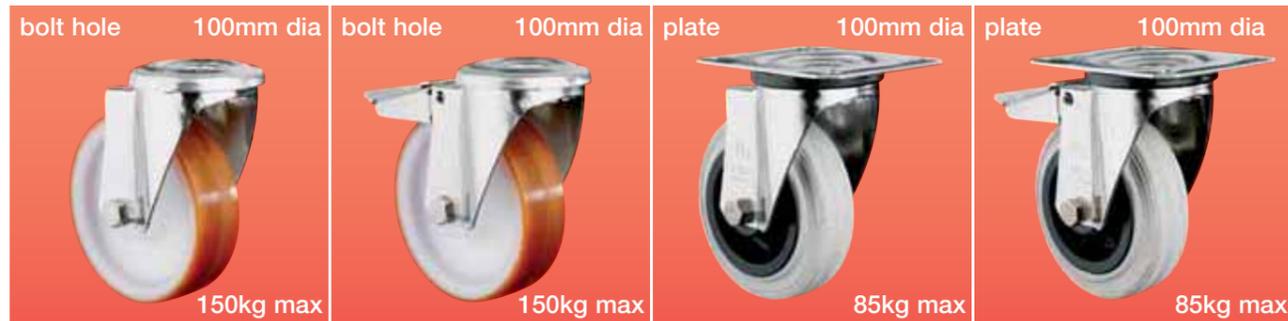
50mm CASTORS
in stainless steel
also available.



7300 **7301** **7302** **7305**



7306 **7310** **7311** **7312**



7315 **7316** **7320** **7321**



7322 one bush supplied with each bolt hole castor bolt hole fixings suitable for Flexliner expanding tube inserts

Options 80mm, 125mm, 150mm, and 200mm wheel sizes available on request

free call: 1-800 6444 34 free fax: 1-800 6444 35 email: parts@flexliner.com.au
www.tubeinserts.com.au www.levellingfeet.com.au www.tubeconnectors.com.au

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PART NUMBER	Type	Wheel diameter a (mm)	Wheel width m (mm)	Wheel colour and composition	Overall height C (mm)	Bolt hole diameter d (mm)	Plate size L x W b (mm)	Function	Weight (grams)
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150kgs max.load capacity: 100mm wheel diameter

CSSF-7300	plate	100	30	white , Nylon-hard	128	X	102 x 83	free rolling	560
CSFB-7301	plate	100	30	white , Nylon-hard	128	X	102 x 83	foot brake	670
CSF-7302	plate	100	30	white , Nylon-hard	128	X	102 x 83	fixed	380

CSSF-7305	bolt hole	100	30	white , Nylon-hard	128	M10 or M12	X	free rolling	490
CSFB-7306	bolt hole	100	30	white , Nylon-hard	128	M10 or M12	X	foot brake	600

CSSF-7310	plate	100	30	brown PU + Nylon-soft	128	X	102 x 83	free rolling	580
CSFB-7311	plate	100	30	brown PU + Nylon-soft	128	X	102 x 83	foot brake	690
CSF-7312	plate	100	30	brown PU + Nylon-soft	128	X	102 x 83	fixed	410

CSSF-7315	bolt hole	100	30	brown PU + Nylon-soft	128	M10 or M12	X	free rolling	510
CSFB-7316	bolt hole	100	30	brown PU + Nylon-soft	128	M10 or M12	X	foot brake	620

85kgs max.load capacity: 100mm wheel diameter

CSSF-7320	plate	100	30	light grey, rubber-soft	128	X	102 x 83	free rolling	660
CSFB-7321	plate	100	30	light grey, rubber-soft	128	X	102 x 83	foot brake	770
CSF-7322	plate	100	30	light grey, rubber-soft	128	X	102 x 83	fixed	490

wheel materials

white Nylon (polyamide 6)

- highest quality polyamide 6
- minimal rolling resistance; excellent resistance to shocks, abrasion and corrosion; easy to clean
- temperature range: -30°C/ +80°C (-22°F/ +176°F)
- hub with: shielded precision ball bearings; standard rolling bearings; plain bore

brown polyurethane + white Nylon (polyamide 6)

- injected brown polyurethane coating, hardness 58 ± 3 Shore D
- core in high quality polyamide 6
- noiseless running; high resistance to shocks, abrasion and corrosion; easy to clean
- temperature range: -30°C/ +80°C (-22°F/ +176°F)
- hub with: shielded precision ball bearings

thermoplastic core+elastic grey rubber solid tyre

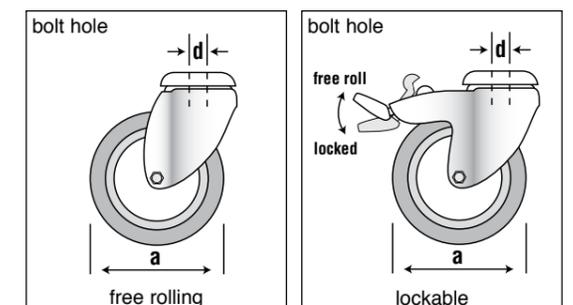
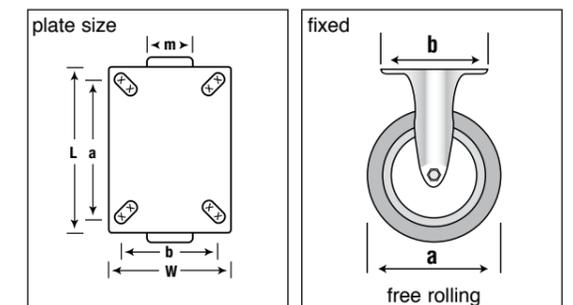
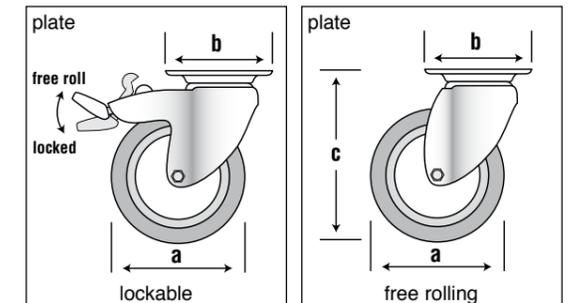
- non marking elastic solid grey rubber tyre, hardness 75 ± 3 Shore A
- core in high quality black thermoplastic material
- excellent smooth running; high abrasion resistance
- temperature range: -20°C/ +60°C (-4°F/ +140°F)
- hub with: standard roller bearing; nylon(polyamide 6) friction bearing

bolt hole castors

- all bolt hole castors can have an M10 or M12 bolt hole, using reducing bush
- M10 bush is SSRB-7308, M12 bush is SSRB-7309, made of stainless steel 316 grade.
- attach M10 bolt hole castor using #3342 stainless steel hex head bolt and #3234 spring washer.
- attach M12 bolt hole castor using #3347 stainless steel hex head bolt and #3235 spring washer.

plate castors

- fixing hole spacing for plate castors is 80mm x 60mm



CASTORS - stainless steel single wheel, plate or bolt hole

CASTORS - stainless steel single wheel, plate or bolt hole

CASTORS, single wheel - plate or bolt hole



7207



7208



7209



7210



7240



7241



7236



7237



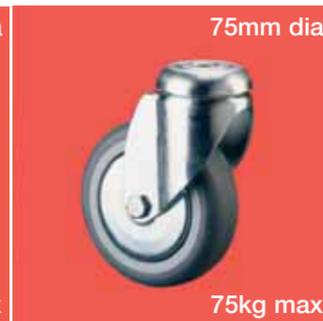
7242



7223



7224



7218



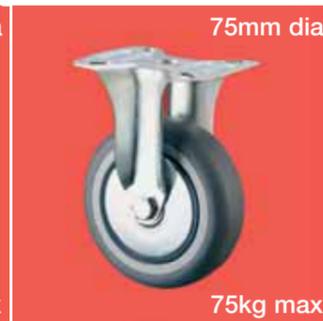
7219



7234



7235



7225



7279



7280



7238



7239



7278



7230



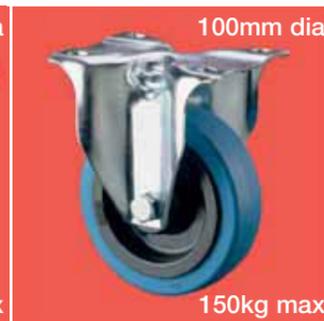
7231



7232



7233



7229



7245



7246



7243

CASTORS, single wheel plate or bolt hole

CASTORS, single wheel plate or bolt hole

CASTORS - single wheel plate or bolt hole

PART NUMBER	Wheel diameter a (mm)	Wheel width c (mm)	Wheel colour and composition	Overall height C (mm)	Bolt hole diameter d (mm)	Plate size L x W b (mm)	Max load capacity b (mm)	Type	Weight (grams)
40 - 50 kgs capacity: 50mm wheel diameter									
CHST-7207	50	19	grey, rubber - soft	67	11		50	free rolling	150
CHFB-7208	50	19	grey, rubber - soft	67	11		50	foot brake	165
CHST-7209	50	20	dark grey, Nylon - hard	67	11		50	free rolling	150
CHFB-7210	50	20	dark grey, Nylon - hard	67	11		50	foot brake	180
CPST-7240	50	20	dark grey, Nylon - hard	67		60x60	50	free rolling	180
CPFB-7241	50	20	dark grey, Nylon - hard	67		60x60	50	foot brake	195
CPST-7236	50	19	grey, rubber - soft	69		60x60	50	free rolling	182
CPFB-7237	50	19	grey, rubber - soft	69		60x60	50	foot brake	200
CPF-7242	50	19	grey, rubber - soft	67		55x55	50	free rolling - fixed	95
CEST-7223	50	19	grey, rubber - soft	67			50	free rolling	182
CEFB-7224	50	19	grey, rubber - soft	67			50	foot brake	198

75 kgs capacity: 75mm wheel diameter

CHST-7218	75	25	grey, rubber - soft	100	11		75	free rolling	230
CHFB-7219	75	25	grey, rubber - soft	100	11		75	foot brake	290
CPST-7234	75	25	grey, rubber - soft	100		60 x 60	75	free rolling	270
CPFB-7235	75	25	grey, rubber - soft	100		60 x 60	75	foot brake	330
CPF-7225	75	25	grey, rubber - soft	100		60 x 66	75	free rolling - fixed	175

100 kgs capacity: 80mm wheel diameter

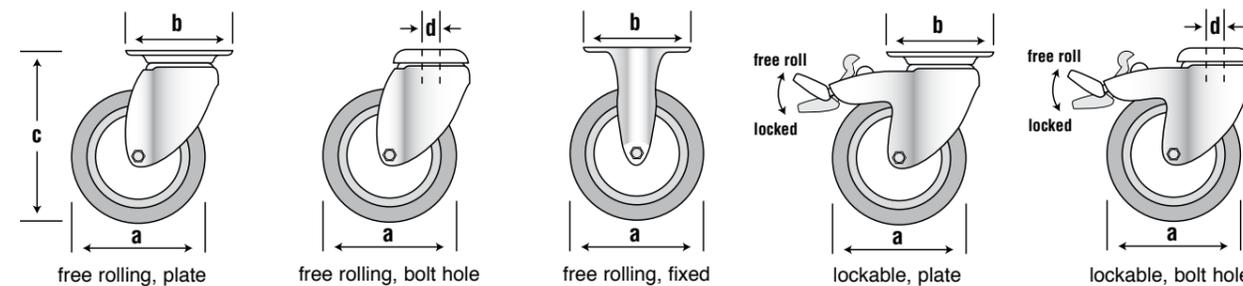
CHST-7279	80	34	black, Nylon - hard	108	13		100	free rolling	650
CHFB-7280	80	34	black, Nylon - hard	108	13		100	foot brake-TOTAL lock	820
CPST-7238	80	34	black, Nylon - hard	108		105 x 85	100	free rolling	740
CPFB-7239	80	34	black, Nylon - hard	108		105 x 85	100	foot brake-TOTAL lock	960
CPF-7278	80	34	black, Nylon - hard	108		105 x 85	100	free rolling - fixed	325

150 kgs capacity: 100mm wheel diameter

CHST-7230	100	34	blue, Nylon - soft	128	13		150	free rolling	885
CHFB-7231	100	34	blue, Nylon - soft	128	13		150	foot brake-TOTAL lock	1035
CPST-7232	100	34	blue, Nylon - soft	128		105 x 85	150	free rolling	885
CPFB-7233	100	34	blue, Nylon - soft	128		105 x 85	150	foot brake-TOTAL lock	1058
CPF-7229	100	34	blue, Nylon - soft	128		105 x 85	150	free rolling - fixed	575

250 kgs capacity: 125mm wheel diameter

CHST-7245	125	40	light grey, rubber - soft	155		105 x 85	250	free rolling	1075
CHFB-7246	125	40	light grey, rubber - soft	155		105 x 85	250	foot brake-TOTAL lock	1245
CPF-7243	125	40	light grey, rubber - soft	155		105 x 85	250	free rolling - fixed	795



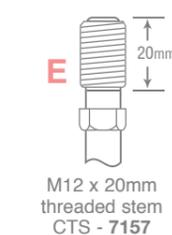
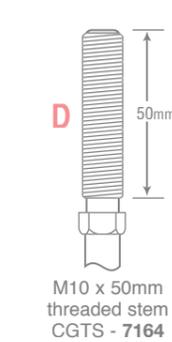
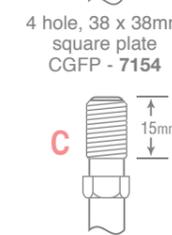
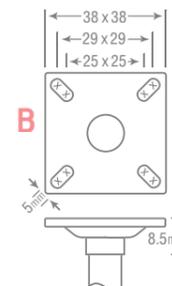
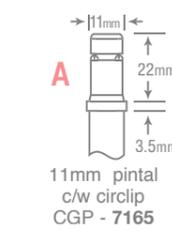
Housing details: Housing made of pressed steel, zinc chromatised, double ball bearing swivel head, wheel axle with nut

Total lock: Locks both the wheel and swivel plate when engaged

Load capacity: the load capacity of castor's above assume they are used in a normal environment, with floors in smooth & proper condition. If the floor is uneven or irregular, then a higher capacity castor is needed.

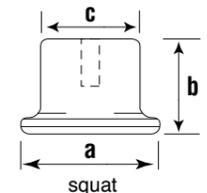
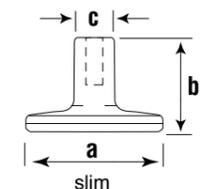
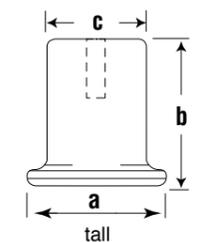
Calculating capacity: when four castor's are fitted to a unit (eg; a trolley) the minimum load capacity per castor should be 35% of the total load ie the total load = weight of unit + load. For example; if the total load is 100kgs, then each castor should have a minimum load capacity of 35kgs

GLIDES



PART NUMBER	Glide profile	Glide fixing (stem)	Base diameter a (mm)	Height no fixing b (mm)	Top width c (mm)	Weight with fixing (grams)
GTP-7102A	tall	pintal: 11mm+circlip	50	56	36	76
GTP-7102B	tall	plate: 38mm x 38mm	50	56	36	84
GTP-7102C	tall	thread: M10 x 15mm	50	56	36	70
GTP-7102D	tall	thread: M10 x 50mm	50	56	36	86
GTP-7102E	tall	thread: M12 x 20mm	50	56	36	95
GSP-7105A	slim	pintal: 11mm+circlip	50	36	14	53
GSP-7105B	slim	plate: 38mm x 38mm	50	36	14	61
GSP-7105C	slim	thread: M10 x 15mm	50	36	14	47
GSP-7105D	slim	thread: M10 x 50mm	50	36	14	63
GSP-7105E	slim	thread: M12 x 20mm	50	36	14	68
GSQP-7105A	squat	pintal: 11mm+circlip	60	36	50	70
GSQP-7105B	squat	plate: 38mm x 38mm	60	36	50	78
GSQP-7105C	squat	thread: M10 x 15mm	60	36	50	64
GSQP-7105D	squat	thread: M10 x 50mm	60	36	50	80
GSQP-7105E	squat	thread: M12 x 20mm	60	36	50	85

Materials: glide housings are black nylon, fixing mild steel bright zinc plated



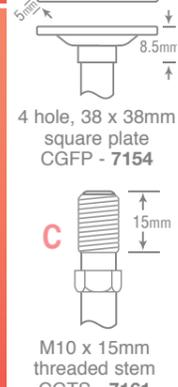
CASTORS, 50mm tyre

dia. twin wheel, PU

free rolling hooded, dark grey tyre, black hub & housing



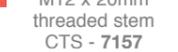
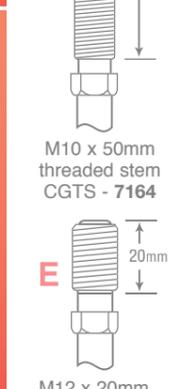
foot brake hooded, dark grey tyre, black hub & housing



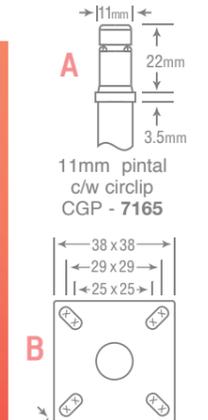
free rolling castors, dark grey tyre, light grey hub & housing



footbrake castors, dark grey tyre, light grey hub & housing



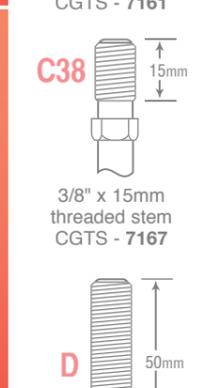
free rolling - black PU tyre, white hub & housing



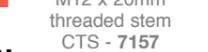
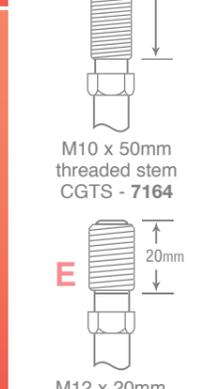
foot brake - black PU tyre, white hub & housing



free rolling - black PU tyre, aluminium colour hub & housing



footbrake - black PU tyre, aluminium colour hub & housing



specifications next page:

CASTORS, 50mm twin wheel, PU tyre

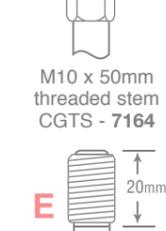
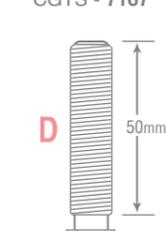
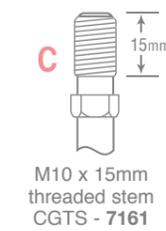
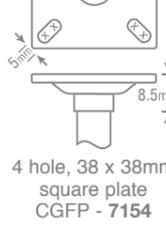
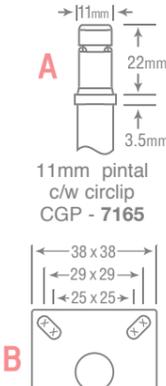
CASTORS, 50mm twin wheel, PU tyre

CASTORS, 50-30mm

50kg maximum load

diameter twin wheel

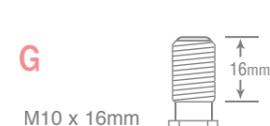
50mm dia. free rolling hooded



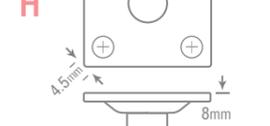
50mm dia. foot brake hooded



30mm dia. wheel, free rolling



30mm dia. wheel, footbrake



speciality castors



PART NUMBER	Castor wheel diameter & type	Castor fixing (stem)	Wheels & hub colour	Housing colour	Wheel width (mm)	Overall width (mm)	Overall height (mm)	Weight (grams)
CBL5-7201A	50mm, brake LOADED, hooded	pintal: 11mm+circlip	dark grey PU tyre+black	black	18	53	55	125
CSTS-7202A	50mm, free rolling, hooded	pintal: 11mm+circlip	dark grey PU tyre+black	black	18	53	55	105
CSTS-7202B	50mm, free rolling, hooded	plate: 38mm x 38mm	dark grey PU tyre+black	black	18	53	55	105
CSTS-7202C	50mm, free rolling, hooded	thread: M10 x 15mm	dark grey PU tyre+black	black	18	53	55	100
CSTS-7202D	50mm, free rolling, hooded	thread: M10 x 50mm	dark grey PU tyre+black	black	18	53	55	115
CBUS-7203A	50mm, brake UNLOADED, hooded	pintal: 11mm+circlip	dark grey PU tyre+black	black	18	53	55	125
CSTN-7204A	50mm, free rolling, hooded	pintal: 11mm+circlip	black	black	18	53	54	95
CSTN-7204B	50mm, free rolling, hooded	plate: 38mm x 38mm	black	black	18	53	54	95
CSTN-7204C	50mm, free rolling, hooded	thread: M10 x 15mm	black	black	18	53	54	90
CSTN-7204D	50mm, free rolling, hooded	thread: M10 x 50mm	black	black	18	53	54	105
CSTN-7205A	50mm, free rolling, Chrome, hooded	pintal: 11mm+circlip	black	chrome	15	52	58	95
CFBN-7206A	50mm, foot brake, hooded	pintal: 11mm+circlip	black	black	18	53	54	105
CFBN-7206B	50mm, foot brake, hooded	plate: 38mm x 38mm	black	black	18	53	54	105
CFBN-7206C	50mm, foot brake, hooded	thread: M10 x 15mm	black	black	18	53	54	100
CFBN-7206D	50mm, foot brake, hooded	thread: M10 x 50mm	black	black	18	53	54	115
CFBN-7211A	50mm, foot brake, hooded	pintal: 11mm+circlip	dark grey PU tyre+black	black	18	53	55	105
CFBN-7211B	50mm, foot brake, hooded	plate: 38mm x 38mm	dark grey PU tyre+black	black	18	53	55	105
CFBN-7211C	50mm, foot brake, hooded	thread: M10 x 15mm	dark grey PU tyre+black	black	18	53	55	100
CFBN-7211D	50mm, foot brake, hooded	thread: M10 x 50mm	dark grey PU tyre+black	black	18	53	55	115
CSTN-7212F	30mm, free rolling	thread: M8 x 12mm	black	black	12	40	30	35
CSTN-7212G	30mm, free rolling	thread: M10 x 15mm	black	black	12	40	30	40
CSTN-7212H	30mm, free rolling	plate 28mm x 28mm	black	black	12	40	30	45
CFBN-7213F	30mm, foot brake	thread: M8 x 12mm	black	black	12	40	30	40
CFBN-7213G	30mm, foot brake	thread: M10 x 15mm	black	black	12	40	30	45
CFBN-7213H	30mm, foot brake	plate: 28mm x 28mm	black	black	12	40	30	50
CSTS-7260A	50mm, free rolling	pintal: 11mm+circlip	black PU tyre+white	white	18	53	53.5	103
CSTS-7260B	50mm, free rolling	plate: 38mm x 38mm	black PU tyre+white	white	18	53	53.5	103
CSTS-7260C	50mm, free rolling	thread: M10 x 15mm	black PU tyre+white	white	18	53	53.5	98
CSTS-7260D	50mm, free rolling	thread: M10 x 50mm	black PU tyre+white	white	18	53	53.5	113
CFBS-7261A	50mm, foot brake	pintal: 11mm+circlip	black PU tyre+white	white	18	53	53.5	103
CFBS-7261B	50mm, foot brake	plate: 38mm x 38mm	black PU tyre+white	white	18	53	53.5	103
CFBS-7261C	50mm, foot brake	thread: M10 x 15mm	black PU tyre+white	white	18	53	53.5	98
CFBS-7261D	50mm, foot brake	thread: M10 x 50mm	black PU tyre+white	white	18	53	53.5	113
CSTS-7262A	50mm, free rolling	pintal: 11mm+circlip	black PU tyre+aluminium	aluminium	18	53	53.5	103
CSTS-7262B	50mm, free rolling	plate: 38mm x 38mm	black PU tyre+aluminium	aluminium	18	53	53.5	103
CSTS-7262C	50mm, free rolling	thread: M10 x 15mm	black PU tyre+aluminium	aluminium	18	53	53.5	98
CSTS-7262D	50mm, free rolling	thread: M10 x 50mm	black PU tyre+aluminium	aluminium	18	53	53.5	113
CFBS-7263A	50mm, foot brake	pintal: 11mm+circlip	black PU tyre+aluminium	aluminium	18	53	53.5	103
CFBS-7263B	50mm, foot brake	plate: 38mm x 38mm	black PU tyre+aluminium	aluminium	18	53	53.5	103
CFBS-7263C	50mm, foot brake	thread: M10 x 15mm	black PU tyre+aluminium	aluminium	18	53	53.5	98
CFBS-7263D	50mm, foot brake	thread: M10 x 50mm	black PU tyre+aluminium	aluminium	18	53	53.5	113
CSTS-7264A	50mm, free rolling	pintal: 11mm+circlip	dark grey PU tyre+light grey	light grey	18	53	53.5	103
CSTS-7264B	50mm, free rolling	plate: 38mm x 38mm	dark grey PU tyre+light grey	light grey	18	53	53.5	103
CSTS-7264C	50mm, free rolling	thread: M10 x 15mm	dark grey PU tyre+light grey	light grey	18	53	53.5	98
CSTS-7264D	50mm, free rolling	thread: M10 x 50mm	dark grey PU tyre+light grey	light grey	18	53	53.5	113
CFBS-7265A	50mm, foot brake	pintal: 11mm+circlip	dark grey PU tyre+light grey	light grey	18	53	53.5	103
CFBS-7265B	50mm, foot brake	plate: 38mm x 38mm	dark grey PU tyre+light grey	light grey	18	53	53.5	103
CFBS-7265C	50mm, foot brake	thread: M10 x 15mm	dark grey PU tyre+light grey	light grey	18	53	53.5	98
CFBS-7265D	50mm, foot brake	thread: M10 x 50mm	dark grey PU tyre+light grey	light grey	18	53	53.5	113

Brake castors are usually fitted with a pintal for attaching to chairs, but threads or a plate can be fitted for other applications

CASTORS, 50-30mm diameter twin wheel

CASTORS, 50-30mm diameter twin wheel

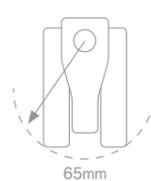
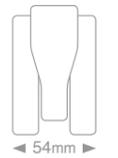
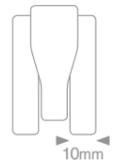
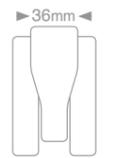
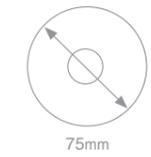
CASTORS, 75mm

up to 75kg maximum load

dia. twin wheel, PU tyre

free rolling

foot brake - TOTAL LOCK



dark grey PU tyre, light grey RAL7035 housing and hub



black PU tyre, aluminium colour RAL9006 housing and hub



black PU tyre, white RAL9006 housing and hub



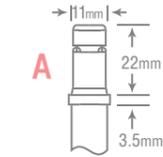
black PU tyre and housing, bright chrome hub



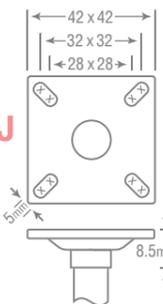
dark grey PU tyre, black housing and hub



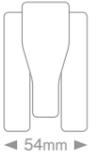
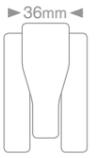
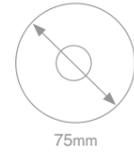
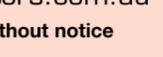
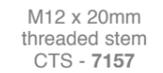
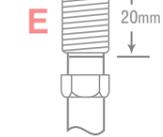
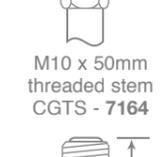
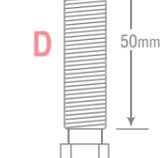
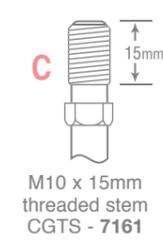
black PU tyre and housing, bright gold hub



11mm pinal c/w circlip CGP - 7165



4 hole, 42 x 42mm square plate CGFP - 7155



dark grey PU tyre, light grey RAL7035 housing and hub



black PU tyre, aluminium colour RAL9006 housing and hub



black PU tyre, white RAL9006 housing and hub



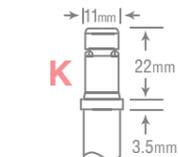
black PU tyre and housing, bright chrome hub



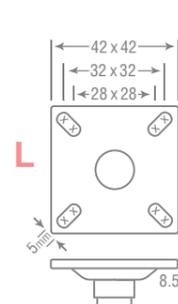
dark grey PU tyre, black housing and hub



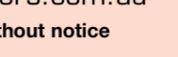
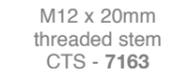
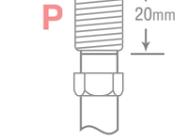
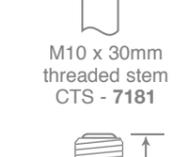
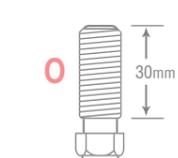
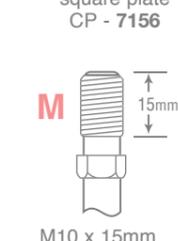
black PU tyre and housing, bright gold hub



11mm pinal c/w circlip CP - 7166



4 hole, 42 x 42mm square plate CP - 7156



CASTORS, 75mm twin wheel, PU tyre

CASTORS, 75mm twin wheel, PU tyre TOTAL LOCK

PART NUMBER	Thread a (mm)(inches)	Thread length b (mm)	Wheel diameter C (mm)	Wheel thickness d (mm)	Wheel type	Weight (grams)
MALE handwheels, mild steel z.p. thread						
HWMT-3532	1/4"	19	31.75	19	tri-wheel	14
HWM-3550	M6	15	44	14	5 Lobe	11
HWM-3551	M6	30	44	14	5 Lobe	12
HWM-5201	M6	27	20	6	serrated	7
HWMT-3531	5/16"	19	50.8	27	tri-wheel	27
HWM-3558	M8	15	40	14	5 Lobe	15
HWM-3559	M8	50	40	27	scallop	31
HWMT-3530	3/8"	19	50.8	27	tri-wheel	35
HWM-3540	M10	20	63	40	scallop	51
HWM-3552	M10	25	50	35	scallop	44
HWMT-3542	M10	25	50.8	27	tri-wheel	38
HWM-5210	M10	40	30	9	serrated	31
HWM-3553	M10	50	50	34	scallop	56
HWM-3556	M12	40	80	52	scallop	97

MALE handwheels, STAINLESS STEEL 316 grade thread						
HWMS-3563	M6	25	40	27	scallop	13
HWMS-3564	M6	50	40	27	scallop	20
HWMS-3565	M8	25	40	27	scallop	17
HWMS-3566	M8	50	40	27	scallop	30
HWMS-3554	M10	25	50	35	scallop	43
HWMS-3555	M10	50	50	35	scallop	57
HWMS-3557	M12	25	80	52	scallop	89
HWMS-3562	M12	50	80	52	scallop	109

MALE "T" handles, mild steel z.p. thread						
THM-3561	M8	50	60 across	18 x 33	"T"handle	32
THM-3560	M10	45	72 across	19 x 34	"T"handle	54

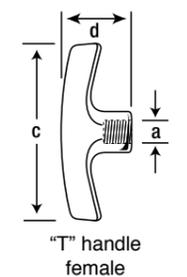
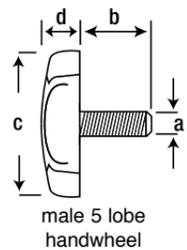
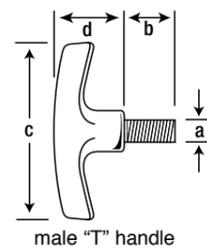
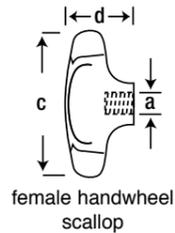
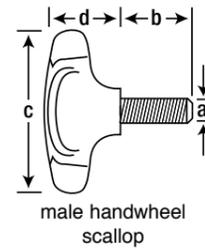
FEMALE handwheels, mild steel z.p. thread						
HWFi-3585	1/4"		40	27	scallop	14
HWFi-3570	M6		40	27	scallop	14
HWFi-3586	5/16"		40	27	scallop	16
HWFi-3572	M8		40	27	scallop	16
HWFi-3587	3/8"		50	35	scallop	28
HWFi-3574	M10		50	35	scallop	28
HWFi-3576	M12		80	52	scallop	67

FEMALE handwheels, STAINLESS STEEL 316 grade thread						
HWFS-3571	M6		40	27	scallop	14
HWFS-3573	M8		40	27	scallop	16
HWFS-3575	M10		50	35	scallop	28
HWFS-3577	M12		80	52	scallop	67

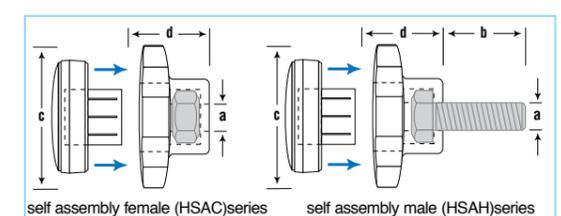
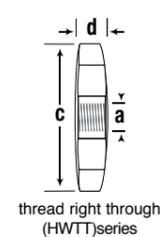
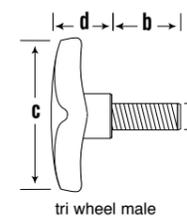
FEMALE "T" handles, brass thread						
THF-3580	M8		60 wide	18 x 33	"T"handle	17
THF-3581	M10		72 wide	19 x 34	"T"handle	29

FEMALE "Thread right through" handwheels-metal zp thread						
HWTT-3567	M6		40	12.5	scallop	10
HWTT-3568	M8		50	14.5	scallop	23
HWTT-3569	M10		50	14	scallop	25
HWTT-3578	M12		50	14	scallop	28

SELF assembly, male or female handwheels						
HSAC-3544	M6	cap	40	27		4
HSAH-3543	M6	hub	40	27	scallop	5
HSAC-3544	M8	cap	40	27		4
HSAH-3545	M8	hub	40	27	scallop	4
HSAC-3547	M10	cap	50	35		6
HSAH-3546	M10	hub	50	35	scallop	9
HSAC-3549	M12	cap	80	52		18
HSAH-3548	M12	hub	80	52	scallop	33



SELF ASSEMBLY
Handwheels require both hub and cap. The base of the hub is moulded to accept a standard hex nut or set screw hex head which is held in place when the cap is "snap" fitted into place.
[eg. for an M8 male or female handwheel choose **HSAC-3544+HSAH-3534**]

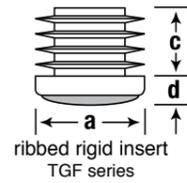


FELT base rigid, angled & tilting inserts

PART NUMBER	TUBE O/D x wall thickness (mm)	Base diameter or size a (mm)	Felt colour	Shank length C (mm)	Overall felt +base head d (mm)	Angle of inclination W°	Weight (grams)
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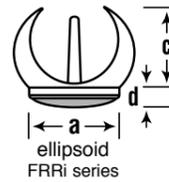
Round tube ribbed inserts with tilting foot - FELT base

TGF-4516	14 x 1.6-2	23	brown	17	10	18 (-20)°	5
TGF-4519	16 x 1.6-2	22	brown	25	23	max. 25°	5
TGF-4520	18 x 1.6-2	22	brown	25	23	max. 25°	6
TGF-4521	19 x 1.6-2	25	brown	25	20	19 (-22)°	6
TGF-4517	20 x 1.6-2	25	brown	25	23	max. 25°	7
TGF-4522	22 x 1.6-2	25	brown	25	20	19 (-22)°	9
TGF-4523	25 x 1.6-2	25	brown	25	20	19 (-22)°	11



Square tube plain inserts with tilting foot - FELT base

STGF-4551	20 x 20 x 1.6	30	brown	17	22	max. 24°	7
STGF-4552	20 x 20 x 2	30	brown	17	22	max. 24°	7
STGF-4550	25 x 25 x 1.6	30	brown	17	22	max. 24°	9

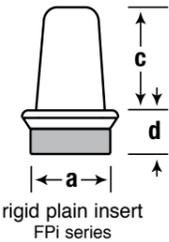


Round tube ribbed inserts - FELT base

FRRi-4532	19 x 1.6-2	19	brown	15	10		3
FRRi-4529	20 x 1.6-2	20	brown	15	10		2
FRRi-4530	22 x 1.6-2	22	brown	15	10		2
FRRi-4531	25 x 1.6-2	25	brown	15	10		3
FRRi-4527	32 x 1.6-2	32	brown	15	10		4
FRRi-4528	38 x 1.6-2	38	grey	20	10		

Round tube plain inserts - FELT base

FPI-4524	fits 10mm id	17	black	13	10		3
FPI-4525	fits 14mm id	20	black	16	10		3
FPI-4526	fits 19mm id	24	black	20	10		6

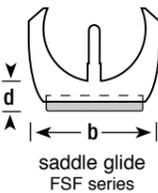


Round tube angled ribbed inserts - FELT base

FRAi-4534	20 x 1.6-2	20	brown	20	15 to 11	18°-22°	4
FRAi-4535	20 x 1.6-2	20	brown	20	11 to 9	15°	4
FRAi-4536	25 x 1.6-2	25	brown	25	13 to 11	18°	8

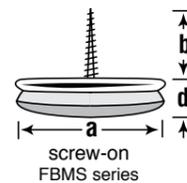
Round tube "sled" base attachments - FELT base

FSF-4512	10 - 11	28 x 16.5	brown	12.5 high	6		5
FSF-4513	11 - 12	28 x 20	brown	15 high	7		6
FSF-4514	14 - 15	28 x 23	brown	18 high	8		6
FSF-4515	15 - 16	28 x 26	brown	20 high	9		8
FSF-4540	15 to 25	50 x 22	brown		12		9
FSF-4541	25	63 x 25	brown	80mm radius	10		20
FSF-4542	25	31.5 x 34	brown	Ellipsoid clamping saddle	17.5		6



"Nail-on" glides / feet - FELT base

FGN-4883	"round"	14	brown	1 x 14mm nail	8.5		2
FGN-4884	"round"	14	white	1 x 14mm nail	8.5		2
FGN-4885	"round"	17	brown	1 x 14mm nail	9.5		4
FGN-4886	"round"	17	white	1 x 14mm nail	9.5		4
FGN-4887	"round"	28	brown	1 x 14mm nail	10		6
FGN-4888	"round"	28	white	1 x 14mm nail	10		6
FGN-4880	"rectangle"	30 x 18	brown	2 x 12mm nails	12		5
FGN-4881	"oblong"	30 x 18	brown	2 x 12mm nails	12		7
FGN-4882	"oval"	40 x 25	brown	2 x 12mm nails	13		9



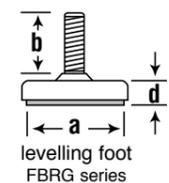
"Screw-on" glides / foot - FELT base

FBMS-4511		18.5	brown	1 x 15 screw	9		4
FBMS-4518		35	brown	1 x 15 screw	11		9

other sizes by order: 20.3mm, 22.4mm, 24.4mm, 28.4mm and 30.2mm diameters

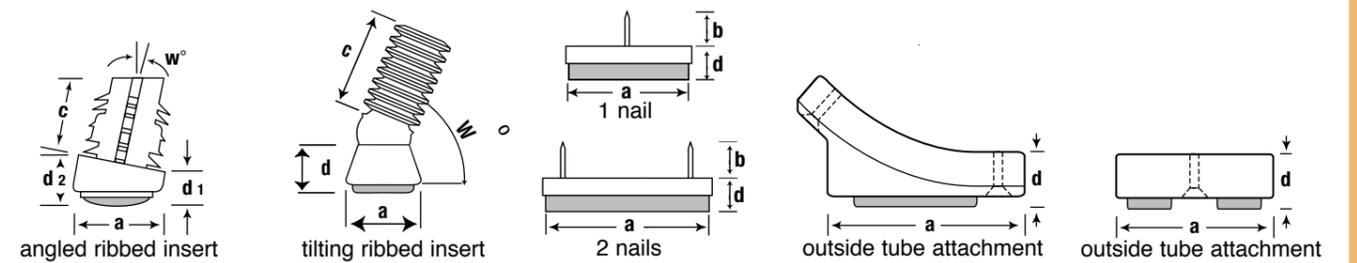
Levelling foot, non-tilt - FELT base

FBRG-4507		34	brown	M8 x 20	12		13
FBRG-4508		34	brown	M8 x 50	12		30
FBRG-4509		34	brown	M10 x 20	12		18
FBRG-4510		34	brown	M10 x 50	12		33



All the felt based components above should not have contact with fluids as this may lessen the life time of the felt; and are only suitable for even, jointless or tightly joined timber floors.

Please do not use the TGF series on rough surfaces such as brick paving, stone or unfinished cement floors as the felt will prematurely wear-out.



FELT base rigid, angled & tilting inserts

FELT base rigid, angled & tilting inserts

SCREWS

PART NUMBER	Thread a (mm)	Thread length b (mm)	Head dia or (SW) C (mm)	Head thickness d (mm)	Weight (grams)
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Cap screws, hex. head, mild steel ZP

MSHB-3508	M6	30	10	4	5
MSHB-3509	M6	55	10	4	10
MSHB-3510	M8	30	13	5	15
MSHB-3511	M8	55	13	5	22
MSHB-3515	M10	30	16	6	24
MSHB-3516	M10	55	16	6	35
MSHB-3520	M12	30	18	7	38
MSHB-3521	M12	55	18	7	34

Cap screws, hex. head, stainless steel 316 grade

SSHB-3330	M6	30	10	4	6
SSHB-3331	M6	55	10	4	10
SSHB-3335	M8	30	13	5	13
SSHB-3336	M8	55	13	5	22
SSHB-3340	M10	30	17	17	26
SSHB-3341	M10	55	17	17	37
SSHB-3345	M12	30	18.8	7.6	38
SSHB-3346	M12	55	18.8	7.6	56

Cap screws / Castor bolts, hex. head, stainless steel 304 grade

SSHB-3332	M10	65	10	4	42
SSHB-3347	M12	65	10	4	60

used for attaching Stainless Steel bolt hole castors to expanding threaded tube inserts or expanding pintals

WASHERS

PART NUMBER	Internal dia. (i.d.) a (mm) or inches	Outside dia b (mm) or inches	Thickness b (mm) or inches
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Mild steel, ZP

MSZW-3388	3.97, (5/32")	9.53, (3/8")	0.95, (20g)
MSZW-3389	6.35, (1/4")	12.7, (1/2")	1.22, (18g)
MSZW-3390	6.35, (1/4")	15.88, (5/8")	1.22, (18g)
MSZW-3391	6.35, (1/4")	19.05, (3/4")	1.22, (18g)
MSZW-3395	8, M8	17,	1.22, (18g)
MSZW-3393	9.53, (3/8")	22.23, (7/8")	1.22, (18g)
MSZW-3387	10, M10	21,	1.63, (16g)
MSZW-3394	11.11, (7/16")	25.4, (1")	1.22, (18g)
MSZW-3396	7.94, (5/16")	31.75, (1 1/4")	1.63, (16g)
MSZW-3399	12, M12	24,	1.63, (16g)
MSZW-3398	12.7, (1/2")	38.1, (1 1/2")	2.03, (14g)
MSZW-3397	15.88, (5/8")	34.9, (1 3/8")	1.63, (16g)

Stainless steel, 316 grade

SSW-3355	6.5 M6	12.3	1
SSW-3356	8.6 M8	17	1
SSW-3357	10.7 M10	20.7	1.2
SSW-3358	12.2 M12	23.7	1.2

Stainless steel, 304 grade

SSW-3381	6.5 M6	12.4	1
SSW-3382	9 M8	16.7	1
SSW-3383	10.7 M10	20.7	1.2
SSW-3384	12.2 M12	23.7	1.2

HEXAGON NUTS

PART NUMBER	Thread a (mm) or inches	Width across flats (SW) b (mm)	Thickness C (mm)	Weight (grams)
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Metric - mild steel ZP

MZMH-3460	M6	10	5	2.5
MZMH-3461	M8	13	7	5
MZMH-3462	M10	16	8.2	9
MZMH-3463	M12	17.5	10.5	14
MZMH-3464	M16	23.6	19.6	34

Imperial - mild steel ZP

MZIH-3500	1/4"	11	5	4
MZIH-3501	5/16"	13	6	5
MZIH-3502	3/8"	15	7.7	8
MZIH-3503	1/2"	20	11.5	22
MZIH-3504	5/8"	25	14	40
MZIH-3505	3/4"	30	18	74
MZIH-3506	7/8"	33	19	78

Stainless steel 316 grade

SSHN-3414	M6	10	5	2
SSHN-3415	M8	12.8	6.3	4.5
SSHN-3416	M10	16.8	7.8	10
SSHN-3417	M12	18.9	9.9	16
SSHN-3418	M16	23.8	12.7	31

Stainless steel 304 grade

SSHN-3431	M6	10	5	2
SSHN-3432	M8	12.8	6.3	4.5
SSHN-3433	M10	16.8	7.8	10
SSHN-3434	M12	18.9	9.9	16
SSHN-3454	M16	23.8	12.7	30

"Nyloc" hex nuts, mild steel ZP

MZMN-3466	M6	10	6	2
MZMN-3467	M8	13	8	5
MZMN-3468	M10	17	10	11
MZMN-3469	M12	18.7	12	14
MZMN-3470	M16	24	15.5	30

SPRING WASHERS

PART NUMBER	Internal a (mm) or inches	Outside b (mm) or inches	Weight (grams)
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Metric - mild steel ZP

SWMZ-3242	M6	2.5 x 1.6	1
SWMZ-3243	M8	3 x 2	2
SWMZ-3244	M10	3 x 2	3
SWMZ-3245	M12	4 x 2.5	4
SWMZ-3246	M16	5 x 3.5	12

Imperial - mild steel ZP

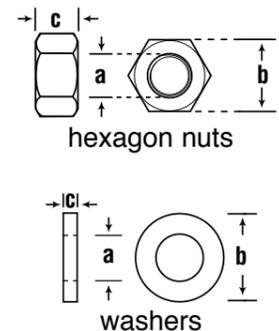
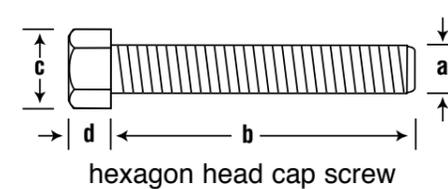
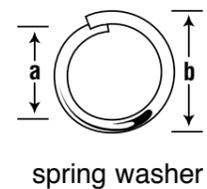
SWMZ-3241	1/4"	3/32" x 1/16"	1
SWMZ-3243	5/16"	1/8" x 3/32"	2
SWMZ-3240	3/8"	1/8" x 3/32"	3
SWMZ-3239	1/2"	3/16" x 1/8"	6
SWMZ-3238	5/8"	7/32" x 5/32"	15
SWMZ-3237	3/4"	1/4" x 3/16"	20

Stainless steel 316 grade

SWSS-3232	M6	3 x 1.5	1
SWSS-3233	M8	3 x 2	3
SWSS-3234	M10	3 x 2	3
SWSS-3235	M12	4 x 2.5	4
SWSS-3236	M16	5 x 3.4	8

Stainless steel 304 grade

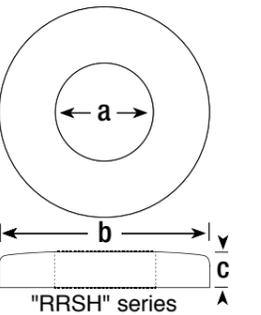
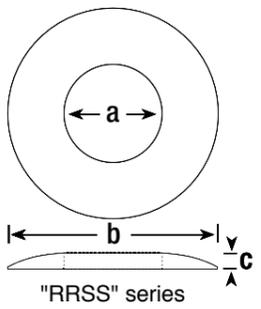
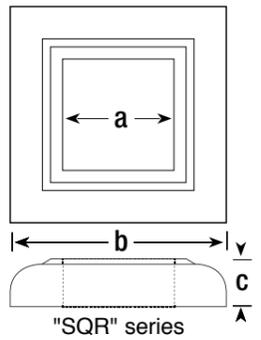
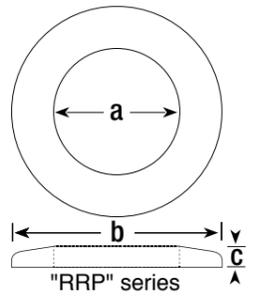
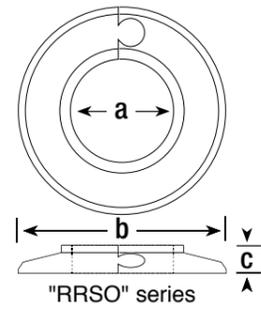
SWSS-3248	M10	3 x 2	2
SWSS-3249	M12	4 x 2.5	3



This selection of fasteners is not meant to be a full range of every size. It represents fasteners held in stock by Flexliner for use in manufacture of various components or are commonly used with our components.

ROSETTES & BASE

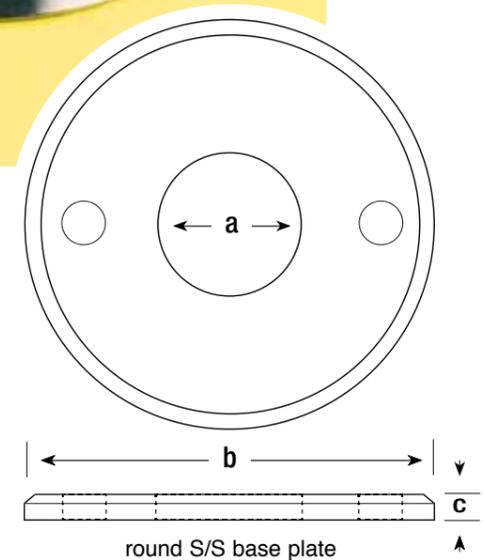
plates stainless steel



PART NUMBER	Fits tube size (mm) (inches)	Inside diameter or size a (mm)	Outside diameter or size b (mm)	Height c (mm)	Type	Material	Weight (grams)
for Square tube							
SQSR-2705	38.1 x 38.1 (1 1/2" x 1 1/2")	38.2 x 38.2	76.2(3") OD	7	1 piece	316 S/S	78
SQSR-2706	50.8 x 50.8(2"x2")	51.5 x 51.5	102(4") OD	9.5	1 piece	316 S/S	70
SQR-2710	30 x 30	31 x 31	80 x 80	18	1 piece	LD-PE	15
SQR-2711	40 x 40	41 x 41	80 x 80	18	1 piece	LD-PE	14
SQR-2712	50 x 50 & 50.8 x 50.8(2"x2")	51 x 51	80 x 80	18	1 piece	LD-PE	12
for Round tube							
RRSS-2715	38.1(1 1/2")	38.5	79	7	1 piece	316 S/S	82
RRSS-2716	50.8(2")	52	101	9	1 piece	316 S/S	74
RRSH-2718	38.1(1 1/2")	38.3	110	21.8	1 piece	316 S/S	100
RRSH-2719	50.8(2")	51.2	123.5	22	1 piece	316 S/S	92
RRP-2723	50 & 50.8(2")	51	90	9	1 piece	LD-PE	10
RRP-2724	60 & 60.3(50nbi)	61	90	9	1 piece	LD-PE	8
RRSO-2730	20	20.5	54	8	snap fit	LD-PE	5
RRSO-2731	25 & 25.4(1")	25.5	61	8	snap fit	LD-PE	7
RRSO-2732	30	30.5	61	8	snap fit	LD-PE	8
RRSO-2733	42.4(32nbi)	42.5	61	8	snap fit	LD-PE	10
RRSO-2734	48.3(40nbi)	48.5	88	8	snap fit	LD-PE	11
RRSO-2735	60 & 60.3(50nbi)	60.5	97	8	snap fit	LD-PE	13



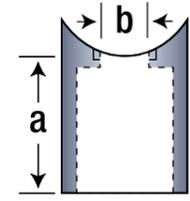
PART NUMBER	Centre hole tube size (mm) (inches)	Inside diameter a (mm)	Outside diameter b (mm)	Plate thickness c (mm)	Fixing holes (mm)	Stainless steel grade	Weight (grams)
Round base plates - stainless steel							
RBPS-3061	48.3 (40nbi)	48.7	150	7.3	2 x 14.2	316	916
RBPS-3062	50.8 (2")	51.4	150	7.3	2 x 14.2	316	900
RBPS-3063	60.3 (50nbi)	60.7	150	7.3	2 x 14.2	316	890
RBPS-3064	63.5 (2 1/2")	63.9	150	7.3	2 x 14.2	316	810
RBPS-3056	48.3 (40nbi)	48.7	150	7.3	2 x 14.2	304	916
RBPS-3057	50.8 (2")	51.4	150	7.3	2 x 14.2	304	900
RBPS-3058	60.3 (50nbi)	60.7	150	7.3	2 x 14.2	304	890
RBPS-3059	63.5 (2 1/2")	63.9	150	7.3	2 x 14.2	304	810



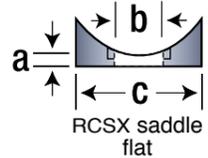
PART NUMBER	Suits O/D size (mm)	Suits O/D size (inches)	Base thickness a (mm)	Centre bolt or screw size	Centre hole dia a (mm)	Saddle O.D. a (mm)	Saddle base	Weight (grams)
ROUND concave "saddle" washer								
RCSX-3100	19	3/4"	3	M6	6.5	20	flat	2
RCSX-3101	19	3/4"	5	M6	6.5	20	flat	2
RCSX-3102	19	3/4"	10	M6	6.5	20	flat	4
RCSX-3103	19	3/4"	20	M6	6.5	20	recess	5
RCSX-3110	20 and 22	7/8"	30	M6	6.5	20	recess	8
RCSX-3120	25 and 25.4	1"	3	M6	6.5	20	flat	2
RCSX-3121	25 and 25.4	1"	5	M6	6.5	20	flat	3
RCSX-3122	25 and 25.4	1"	10	M6	6.5	20	recess	4
RCSX-3123	25 and 25.4	1"	25	M6	6.5	20	recess	8
RCSX-3130	30 and 32	1 1/4"	3	M8	8.5	25	flat	2
RCSX-3131	30 and 32	1 1/4"	5	M8	8.5	25	flat	3
RCSX-3132	30 and 32	1 1/4"	10	M8	8.5	25	flat	4
RCSX-3133	30 and 32	1 1/4"	15	M8	8.5	25	recess	6
RCSX-3134	30 and 32	1 1/4"	25	M8	8.5	25	recess	8
RCSX-3140	30 and 32	1 1/4"	3	M10-12	12.2	30	flat	2
RCSX-3141	30 and 32	1 1/4"	5	M10-12	12.2	30	flat	2
RCSX-3142	30 and 32	1 1/4"	10	M10-12	12.2	30	flat	4
RCSX-3143	30 and 32	1 1/4"	25	M10-12	12.2	30	recess	6
RCSX-3150	38	1 1/2"	3	M10-12	12.2	30	flat	2
RCSX-3151	38	1 1/4"	5	M10-12	12.2	30	flat	4
RCSX-3152	38	1 1/4"	10	M10-12	12.2	30	flat	4
RCSX-3153	38	1 1/4"	15	M10-12	12.2	30	flat	5
RCSX-3154	38	1 1/4"	25	M10-12	12.2	30	recess	7
RCSX-3160	50 and 50.8	2"	3	M10-12	12.2	30	flat	4
RCSX-3161	50 and 50.8	2"	5	M10-12	12.2	30	flat	4
RCSX-3162	50 and 50.8	2"	10	M10-12	12.2	30	flat	6
RCSX-3163	50 and 50.8	2"	15	M10-12	12.2	30	flat	6
RCSX-3164	50 and 50.8	2"	20	M10-12	12.2	30	recess	7
RCSX-3165	50 and 50.8	2"	25	M10-12	12.2	30	recess	8
RCSX-3166	50 and 50.8	2"	30	M10-12	12.2	30	recess	10

PART NUMBER	Tube O.D. x wall thickness c	Joint angle	Shank length d (mm)	Tube O.D. to fit saddle	Expanding insert thread e (mm)	Weight (grams)
ROUND "saddle" washer for "cross" tubes (at 90°)						
RCSW-3080	16 to 20		10	M6	6.2	15
RCSW-3081	20 to 22	3/4"	3	M6	6.2	19
RCSW-3082	25 to 25	1"	3	M8	8.2	22
RCSW-3083	30 to 32	1 1/4"	3.5	M8	8.2	28
RCSW-3084	38 to 42	1 1/2"	5	M8	8.2	35

PART NUMBER	Tube O.D. x wall thickness c	Joint angle	Shank length d (mm)	Tube O.D. to fit saddle	Expanding insert thread e (mm)	Weight (grams)	
ROUND "saddle" tube connector with expanding tube insert							
RTCE-3180	16 x 1.6	5/8" x 16g	90°	20	16	M6	4
RTCE-3181	22 x 1.6	7/8" x 16g	90°	20	22	M6	7
RTCE-3182	25 x 1.6		90°	26	25	M6	8
RTCE-3183	25 x 2		90°	26	25	M6	9
RTCE-3184	30 x 1.6		90°	26	30	M6	13
RTCE-3185	32 x 1.6	1 1/4" x 16g	90°	26	32	M6	18
RTCE-3186	32 x 2	1 1/4" x 14g	90°	26	32	M6	20



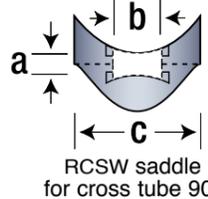
RCSX saddle recessed



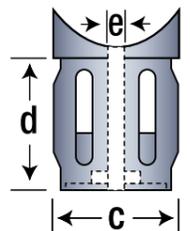
RCSX saddle flat

MATERIAL:
RCSW range-Nylon,
RCSW range-Polyethylene,
RTCE range-Nylon &
mild steel hex nut ZP

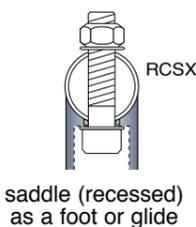
Colours : black



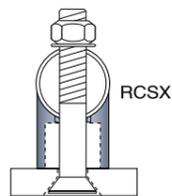
RCSW saddle for cross tube 90°



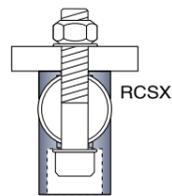
RTCE saddle with expanding insert



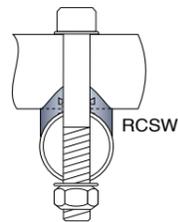
saddle (recessed) as a foot or glide



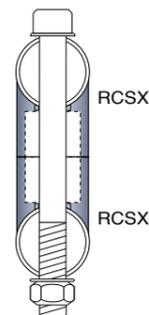
saddle to join tube to plate



saddle (recessed) as a foot attached to plate



saddle "cross" joins 2 tubes at 90° angle



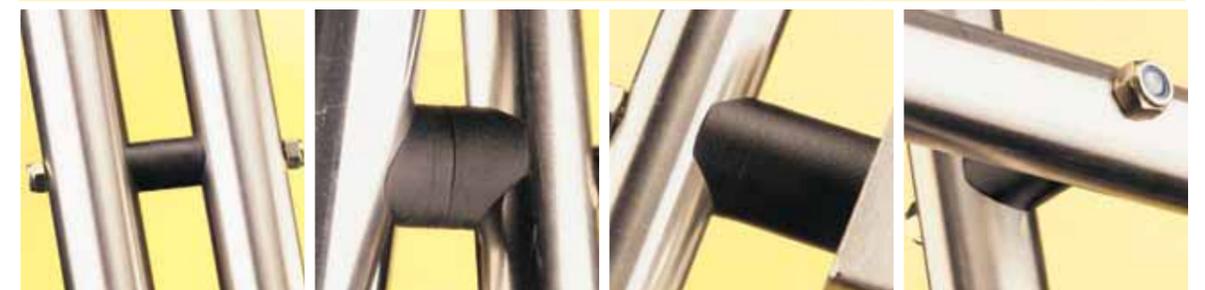
saddles to join parallel tubes



RTCE series

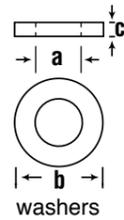


RCSX series



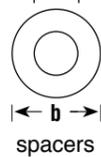
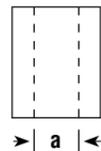
SPACERS, bushes and washers

WASHERS



PART NUMBER	Suits thread	Outside diameter b (mm)	Internal diameter a (mm)	Thickness C (mm)
TPW-3420	M3	7	3.2	0.5
TPW-3400	M3	9	3.2	0.8
TPW-3425	M4	9	4.3	0.8
TPW-3426	M4	10	5.3	1
TPW-3402	M4	12	4.3	1
TPW-3403	M5	15	5.3	1
TPW-3430	M6	12	6.4	2
TPW-3404	M6	18	6.4	2
TPW-3440	M8	16	8.4	2
TPW-3406	M8	24	8.4	2
TPW-3450	M10	20	10.5	2
TPW-3408	M10	30	10.5	3
TPW-3455	M12	24	13	3
TPW-3409	M12	37	13	3

Material : PA6.6 natural / white



spacers

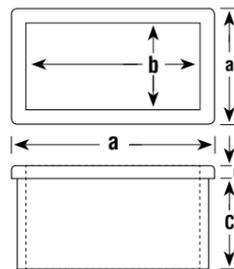
ROUND spacers

PART NUMBER	Internal diameter a (mm)	Outside diameter b (mm)	Thickness length C (mm)	Weight (grams)
RSW- 3790	M4	8	5	0.5
RSW- 3800	M6	15	4	0.5
RSW- 3803	M6	15	10	2
RSW- 3805	M6	15	20	3
RSW- 3810	M6	15	25	4
RBS- 3890	M7	18	20	6
RSW- 3820	M8	25	4	1
RSW- 3824	M8	25	10	4
RSW- 3827	M8	25	20	7
RSW- 3829	M8	25	25	10
RSW- 3840	M10	20	3	1
RSW- 3845	M10	20	10	2
RSW- 3849	M10	20	25	5
RSW- 3860	M12	25	3	1
RSW- 3863	M12	25	5	2
RSW- 3866	M12	25	10	5
RSW- 3867	M12	25	20	8
RSW- 3869	M12	25	25	10

Material: spacers are made of HD-polyethylene, except for the M12 id which are Nylon.#3890 is made of bakelite
Many other lengths available

BUSHES & slide bearings

PART NUMBER	TUBE O/D x wall thickness a (mm)	Internal shape	Internal or size b (mm)	Shank C (mm)	Head / flange d (mm)	Weight (grams)
slide bearing						
SSB-3920	35 x 35 x 2	square	25 x 25 and 25.4 x 25.4	24.5	3.5	7
SSB-3921	50 x 50 x 1.6	square	40 x 40	24.5	4	14
RSB-3923	50 x 30 x 1.6	rectangle	40 x 20	24.5	3.5	11
RSB-3924	60 x 30 x 2	rectangle	50 x 20	24.5	3.5	11



slide bearings

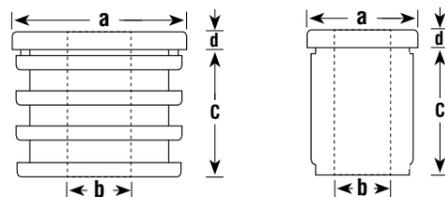
square hinge bushes

SHBN-3930	25 x 25 x 1.6	round	12mm id	36	5	13
SHBN-3932	30 x 30 x 1.6	round	12mm id	36	5	22
SHBN-3933	30 x 30 x 2	round	12mm id	36	5	20
SHBN-3935	40 x 40 x 1.6	round	12mm id	36	5	40
SHBN-3937	50 x 50 x 1.6	round	12mm id	36	5	64
SHBN-3938	50 x 50 x 2	round	12mm id	36	5	62
SHBN-3939	50 x 50 x 2.5-3	round	12mm id	36	5	57
SHBN-3940	50.8 x 50.8 x 1.6	round	12mm id	36	5	63

rectangle hinge bushes

RHBN-3950	38 x 25 x 1.6	round	12mm id	18	5	25
RHBN-3951	50 x 25 x 1.6	round	12mm id	38	5	27

Materials: all black Nylon. use above with all 12mm diameter pin gudgeons



hinge bush ribbed

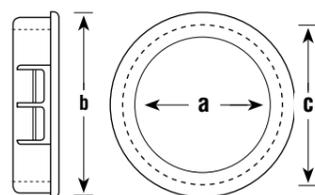
hinge bush plain

ROUND snap-on bushes

PART NUMBER	Panel mounting hole C (mm) (inches)	Outside diameter b (mm)	Internal diameter a (mm)	Weight (grams)
SOPB-3950	12.7 (1/2")	15	10	0.5
SOPB-3952	19 (3/4")	21	16	1
SOPB-3954	24.5 (1")	29	19	2
SOPB-3958	32 (1 1/4")	33	25	3
SOPB-3960	38 (1 1/2")	41	33	4
SOPB-3962	40	45	32	4
SOPB-3965	50.8 (2")	54	41	7

for thick panels up to 6.4mm maximum panel thickness

- Converts raw-edge holes to smooth, neat, insulated holes
- Locking ribs snap fit into holes with finger tip pressure
- Insulates and mechanically protects cables, hoses, rope, and tubing
- Withstands a push-back forces of 155n
- Up to 100mm dia. hole size available



snap-on bush



PART NUMBER	Length a (mm)	Centre hole length b (mm)	Overall flat width c (mm)	Centre hole width d (mm)	Overall height e (mm)	Fixing bolt size	Hinge flap height f (mm)	Fixing hole inner dia. g (mm)	Fixing hole outer dia. h (mm)	Weight (grams)
HINGES with stainless steel rotation pin										
HSS-3200	32	20	32	20	10.5	7	M4	4.5	8	19
HSS-3201	48	30	48	30	15.5	10.5	M6	6.5	13	26
HSS-3202	64	40	64	40	19	13	M6	6.5	13	54
HSS-3204	96	60	96	63	24	16	M10	10.5	20	153

for outdoor or indoor applications. Fasten from the front using countersunk screws
COLOUR: black BODY OF HINGE: fibreglass reinforced nylon

HINGES lever locking, fibreglass reinforced nylon

HCLL-3210	48	28	50	30	16	9	M6	6.6	12.0	43
HCLL-3211	48	28	80	45	16	9	M6	6.6	12.0	55
HCLL-3212	48	28	100	55	16	9	M6	6.6	12.0	62

to connect panels or aluminium profiles. Can be locked in any position. Use M6 countersunk screws pull clamping lever outward to adjust its position, then release and it will lock into place. COLOUR: black

HINGES lever locking, heavy duty, die cast zinc

HCLL-3213	40	47.5	74	21	24	8	M8	8		211
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to connect panels or aluminium profiles. Can be locked in any position. Use M8 countersunk screws to fasten. Maximum load 250 Nm. Pull clamping lever outward to adjust its position. COLOUR: black

HINGES with cover caps, fibreglass reinforced nylon

HCC-3206	56	36	54	35.5	20	8	M6	6.4	10.2 hex	39
HCC-3207	56	36	73.5	45.5	20	8	M6	6.4	10.2 hex	51

to connect panels or aluminium profiles. COLOUR: black
FASTENING: from the front, using M6 screws. From behind, use hex nuts & screws

HINGES self closing, light duty

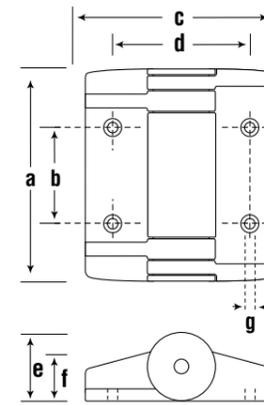
HLDR-3230	97.5	32/40	60	43	29	5	M6	6		110
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fits gates up to 25kgs-for a pair, based on a maximum size of 1524mm x 915mm (with maximum spacing between hinges). Flat mounting style. Weather resistant, self lubricating, internal stainless steel spring closer
COLOUR: black BODY OF HINGE: fibreglass reinforced nylon

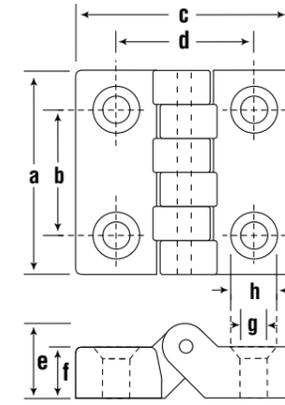
HINGES self closing, heavy duty

HHDR-3231	125.5	45	87	54	39	6	M6	7		285
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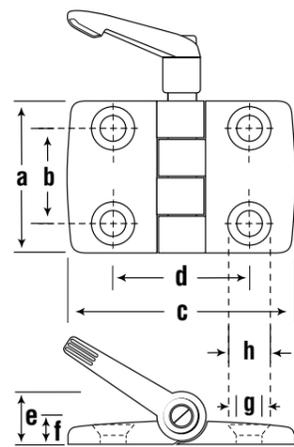
fits gates up to 60kgs-for a pair, based on a maximum size of 1834mm x 1220mm (with maximum spacing between hinges). Flat mounting style. Weather resistant, self lubricating, internal stainless steel spring closer
COLOUR: black BODY OF HINGE: fibreglass reinforced nylon



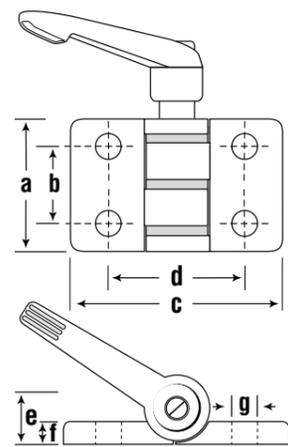
hinge self closing



hinge with stainless steel rotation pin (HSS series)



lever lock - nylon (HCLL)



lever lock - die cast (HCLL)

PART NUMBER	Type	Internal hole dia f (mm)	Length a (mm)	Width C (mm)	Material	Weight (grams)
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Finger grips

FGH-6320	H3	19	105	30	PE	60
FGH-6321	H3	22	105	30	PE	50
FGH-6322	H3	25	105	30	PE	52
FGH-6323	H4	25	122	32	PVC	46

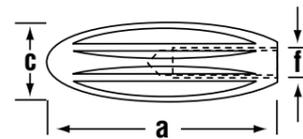
Round long handle grips

RHG-6330	H7	19	93	28	rubber	40
RHG-6331	H7	20	115	28	rubber	95
RHG-6334	H7	22	115	28	rubber	42
RHG-6333	H7	25	127	34	rubber	55
RHG-6335	H7	32	143	40	rubber	63
RHG-6332	H6	33	122	37	PE	55

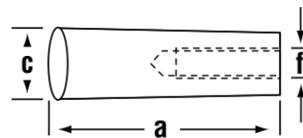
The vent hole at the base of the grip ensures air escapes during attachment. Suitable for use on pipe or solid shafts

Round short handles

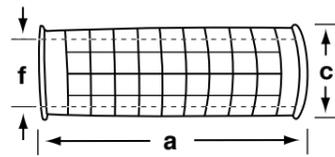
RFSH-6350	H5	6	30	18	nylon	3
RSH-6355	H10	6	40	18	PA	13
RFSH-6351	H5	8	30	18	nylon	3
RSG-6356	H10	8	40	18	PA	14
RFSH-6352	H5	10	50	24	nylon	11
RSH-6357	H10	10	50	20	PA	18
RSH-6358	H10	12	91	27	PA	37



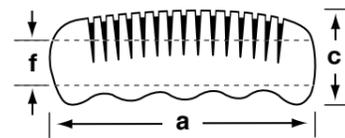
H5 push-on handle



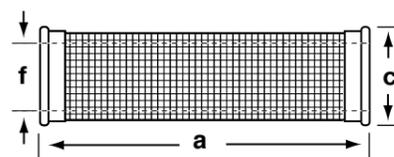
H10 push-on handle



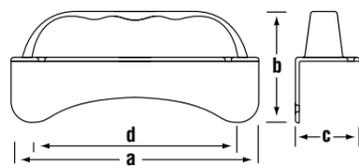
H6* finger grip



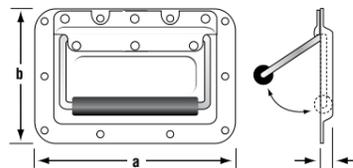
H3*-H4* finger grip



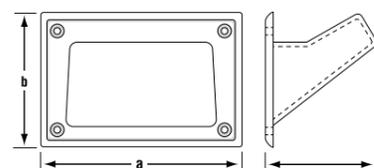
H7* finger grip



H13 corner handle



H9 recessed spring handle



H8 pocket handle



PART NUMBER	Type	Overall length a (mm)	Height b (mm)	Width c (mm)	Fixing hole i.d. & type	Fixing hole centre d (mm)	Material	Weight (grams)
Bridge handles								
PHP-6302	H2	136	42	25	6.5-11mm, bolt hole	117	Nylon + glass fibre	50
PHP-6304	H2	197	25	28	6.5-11mm, bolt hole	179	Nylon + glass fibre	88
PHFT-6312	H1	134	50	25	M6, female thread	120	as above+brass thread	83
PHFT-6313	H1	168	58	29	M8, female thread	150	as above	125
PHPP-6314	H12	121	40	19	6.5mm, bolt hole	100	polymer + cover caps	45
PHS-6306	H2	262	58	63	7mm, bolt hole	190	cast iron	817
PHCF-6305	H13	126	66	43	4.5mm, screw hole	100	Nylon + glass fibre	47

H12's cover plate width = 47mm

Bar-type handles

BH-6315	H20	230	55	29	M10, bolt hole	200	Nylon + glass fibre	130
BH-6316	H30	290	80	40	M10, bolt hole	250	Nylon + glass fibre	205
BH-6317	H30	390	80	40	M10, bolt hole	350	Nylon + glass fibre	276
BH-6318	H30	540	80	40	M10, bolt hole	500	Nylon + glass fibre	360
BH-6319	H30	840	80	40	M10, bolt hole	800	Nylon + glass fibre	525

H20 bar handles have 20mm od tube, H30 have 20mm od tube, mild steel tube plastic coated

Recessed pocket handle - light duty

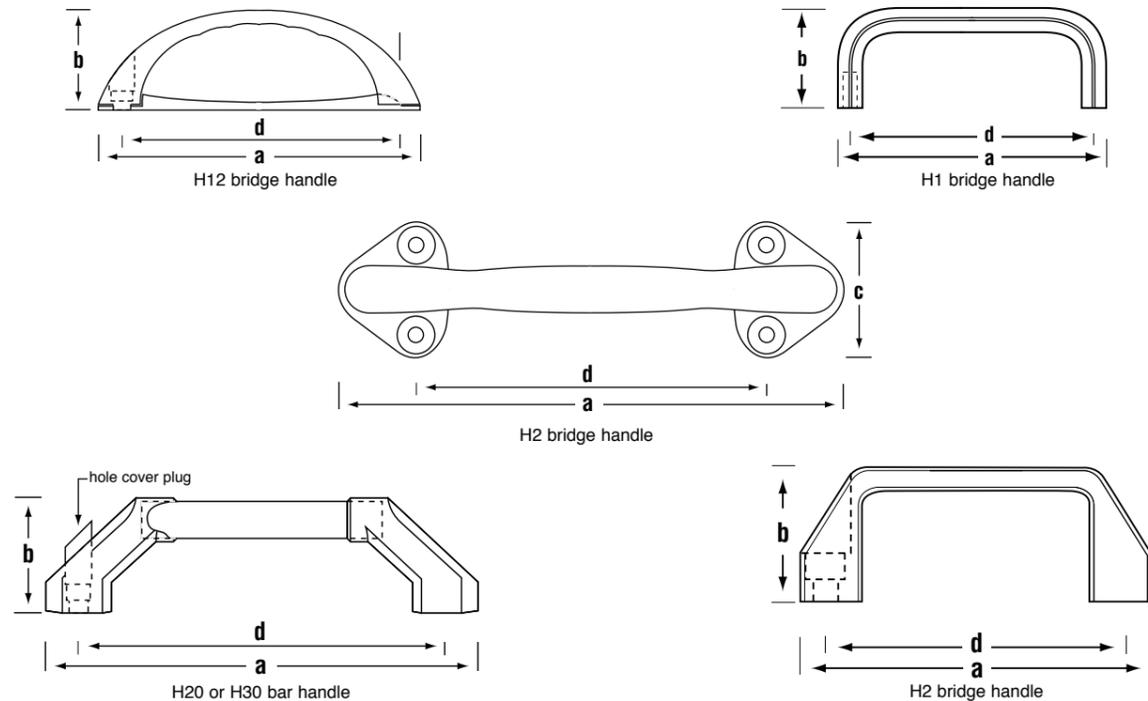
RPH-6345	H8	135 W x 76 H x 80 D	4.5mm, screw holes	n/a	PE	54
PHZ-6346	H14	133 W x 60 H x 22 D	5.5mm, screw holes	n/a	zinc diecast	96

Cut-out in panel to fit # 6345 is 102 x 59mm.

Recessed spring handle - heavy duty

HRH-6340	H9	160 W x 105 H x 10 D	5mm, screw holes	n/a	mild steel ZP	335
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Constructed of pressed & riveted 1.2mm thick mild steel bright zinc plated. Handle has 15mm dia. moulded black rubber grip. 10 x 5mm i.d. fixing holes in face plate



HANDLES & GRIPS -

Heat & chemical resistant,

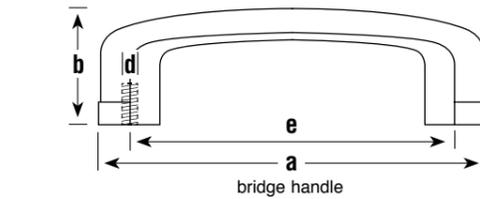
BAKELITE
non conductive

BAKELITE : is the trade name for a thermosetting phenol formaldehyde resin, an early form of plastic. Its main features are high resistance to heat and chemical reaction and its extraordinary high resistance to electricity.

PART NUMBER	Overall length a (mm)	Height b (mm)	Width c (mm)	Fixing hole centre e (mm)	Female thread size & type d (mm)	Weight (grams)
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Bridge handles, solid Bakelite

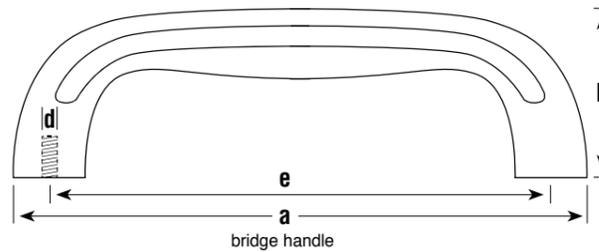
BBH-6309	177	62	29	145	1/4" BSW, brass	136
BBH-6310	120	36	14	98	1/4" BSW, brass	52



PART NUMBER	Overall length a (mm)	End dia. large b1 (mm)	End dia. small b2 (mm)	Internal bore d (mm)	Name	Weight (grams)
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Round handles, solid Bakelite

BBH-6365	77	33	27	10	ribbed roller	63
BBH-6366	96	30	22	10-12.5	rope handle	71
BBH-6367	35	29	23	8	toggle knob	23



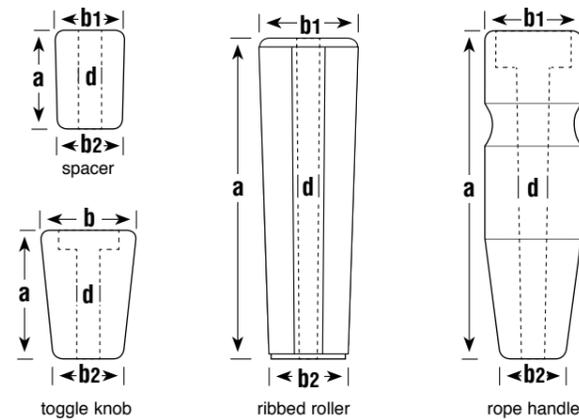
Spacer, solid Bakelite

RBS-3890	20	17.8	17	7	spacer	6
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PART NUMBER	Type	Diameter a (mm)	Base flat c (mm)	Length b (mm)	Female thread size d (mm)	Weight (grams)
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Knobs, solid Bakelite

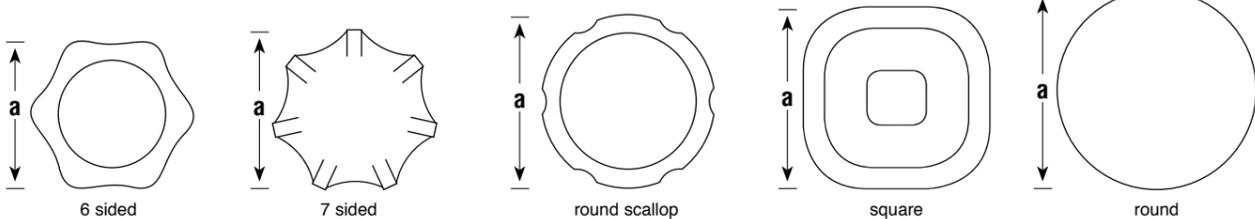
BSK-6250	spherical	48	16	n/a	3/8" BSW	76
BSK-6251	spherical	48	16	n/a	1/2" BSW	73
BSK-6255	spherical	41	16	n/a	3/8" BSW	50
BSK-6256	spherical	41	16	n/a	1/2" BSW	47
BSK-6260	spherical	35	16	n/a	3/8" BSW	31
BSK-6261	spherical	35	16	n/a	1/2" BSW	28
BSK-6265	spherical	28	16	n/a	3/8" BSW	18
BSK-6266	spherical	28	16	n/a	1/4" BSW	16
BKK-6275	lever	35	21	63	3/8" BSW	58
BKK-6278	lever	28	18	50	3/8" BSW	31
BKK-6279	lever	28	18	50	1/4" BSW	25
BKK-6282	lever	22	16	45	3/8" BSW	18
BKK-6283	lever	22	16	45	1/4" BSW	14



PART NUMBER	Wheel diameter a (mm)	Overall thickness b (mm)	Thread size & type d (mm) or (inch)	Wheel type	Weight (grams)
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FEMALE handwheels, solid Bakelite

BFH-3590	60	23	M8, brass	7 sides	48
BFH-3591	60	23	3/8", brass	7 sides	48
BFH-3592	60	23	1/4", brass	7 sides	50
BFH-3595	57	30	3/16" whit.	round	48
BFH-3596	46	31	1/4", brass	round scallop	43
BFH-3599	44	17	1/4", brass	7 sides, small	23
BFH-3535	41	24	3/8", brass	6 sides	33
BFH-3536	41	24	M8", brass	6 sides	33
BFH-3539	48 x 48	26	3/16" whit.	square	43

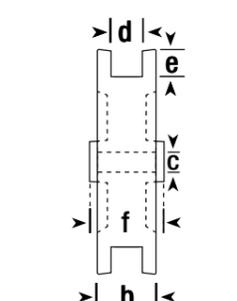
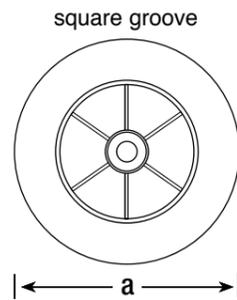
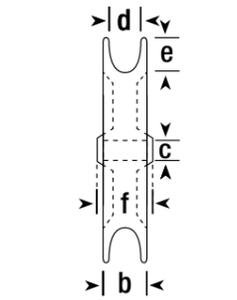
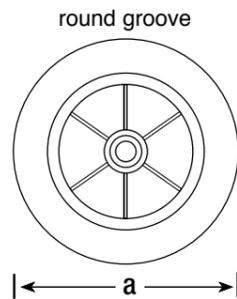


HEAT & CHEMICAL resistant, non conductive handles

HEAT & CHEMICAL resistant, non conductive handles

PULLEY wheels (sheaves)

HELPFUL INFORMATION GUIDE



PART NUMBER	Wheel diameter a (mm)	Wheel width b (mm)	Hub width f (mm)	Hub hole diameter c (mm)	Groove type	Groove width d (mm)	Groove depth e (mm)	Carrying capacity (kg)	Weight (grams)
All Nylon - light duty									
PLDR-6020	16	8	8	8	round	5	3	0.75	2
PLDR-6021	32	10	14	8	round	7	4	15	4
PLDR-6022	50	17	19.5	8	round	6	6	30	19
PLDR-6023	60	14	15	8	round	8	9	40	21
PLDR-6024	75	14	15	8	round	9	9	50	32
PLDS-6025	50	17	19	8	square	7	5	20	22
PLDS-6026	75	20	24	10	square	8	7	40	56
PLDS-6027	105	20	29	10	square	10	7	75	100
PLDS-6028	140	27	34	12	square	13	10	140	278
Nylon wheel with ball bearing - heavy duty									
PHDR-6040	90	22	24	10	round	9	7	100	112
PHDS-6041	75	20	21	8	square	8	7	75	83
PHDS-6042	105	21.5	27	10	square	10	7	150	193
PHDS-6043	135	25	33	12	square	13	10	300	335

abbreviations

ABS	acrylonitrile butadiene styrene
C.H.S.	circular hollow section
EPDM	ethylene propylene diene Monomer
ERW	electric resistance welded (tube)
gal	galvanized finish
gm	grams
H.i.P	high intensity polystyrene
HD-PE	high density polyethylene
kgs	kilograms
LD-PE	low density polyethylene
M10	10 millimetres,
mm	millimetres
nbi	nominal bore internal
o.d. or O/D	outside diameter or dimension
PA	polyamide (Nylon)
PE	polyethylene
PP	polypropylene
R.H.S.	rectangle hollow section
Rib	ribbed (insert)
S.H.S.	square hollow section
swg or g	Standard Wire Gauge or gauge
z.p.	zinc plated

length conversion

(inches to millimetres)

1/8"	3.8 mm
3/16"	4.76 mm
1/4"	6.35 mm
5/16"	7.94 mm
3/8"	9.53 mm
7/16"	11.11 mm
1/2"	12.7 mm
5/8"	15.88 mm
3/4"	19.05 mm
7/8"	22.23 mm
1"	25.4 mm
1 1/8"	28.58 mm
1 1/4"	31.75 mm
1 3/8"	34.93 mm
1 1/2"	38.1 mm
1 5/8"	41.28 mm
1 3/4"	44.45 mm
2"	50.8 mm
2 1/2"	63.5 mm
2 3/4"	69.85 mm
3"	76.2 mm

(swg or g) Standard Wire Gauge conversion to metric

8 g	4.064 mm
9 g	3.658 mm
10 g	3.251 mm
11 g	2.946 mm
12 g	2.642 mm
13 g	2.337 mm
14 g	2.032 mm
15 g	1.829 mm
16 g	1.626 mm
17 g	1.422 mm
18 g	1.219 mm
19 g	1.016 mm
20 g	0.914 mm

nbi conversion to metric (nominal bore internal)

20 nbi	26.9 mm o.d.
25 nbi	33.7 mm o.d.
32 nbi	42.4 mm o.d.
40 nbi	48.3 mm o.d.
50 nbi	60.3 mm o.d.
65 nbi	76.1 mm o.d.
80 nbi	88.9 mm o.d.
90 nbi	101.6 mm o.d.
100 nbi	114.3 mm o.d.
125 nbi	139.7 mm o.d.
150 nbi	165.1 mm o.d.

304 grade the U.S.A name for "food grade" stainless steel, is not recommended to be in contact with saltwater. or "18/8" has nominally 18% chromium, 8% nickel the balance being iron. European: 1.4301, German DiN : X5 CrNi 18 10.

316 grade the U.S.A. name of "marine grade" stainless steel because its composition is 16% chromium, 10% nickel, 2% molybdenum("moly"). The moly is added to help resist corrosion to chlorides(as in seawater). European: 1.4401, German DiN: X5 CrNiMo 17 12 2.

ABS (plastic) **A**crylonitrile **B**utadiene **S**tylene, a common thermoplastic used to make light, rigid, moulded products and parts, used for its good shock absorbance, can be chrome plated (*ie chrome head insert*).

adhesive a substance such as glue, is a mixture in a liquid or semi-liquid state that adheres or bonds items together.

alloy a metal formed of a mixture of metals or of metal and another substance.

aluminium a light weight silvery-white metal that resists corrosion and is able to be worked, hammered, or shaped under pressure without breaking.

anodise to provide a non-corrosive oxide film on the surface of a metal, particularly aluminium, by electrochemical action . Anodising is available in varying colours, as well as natural.

ASTM The American Society of Testing and Materials. The ASTM writes and updates specifications for a broad range of materials, including fluid conductors. le ASTM 47 for malleable iron tube clamping connectors.

axial load a pure tension or compression load acting along the long axis of a straight structural member.

axle a supporting shaft or member on or with which a wheel or a set of wheels revolves.

base the lowest part of anything, the part on which it rests or is supported.

bevel refers to the edge of a structure that is not perpendicular(at 90°) to the face of the piece. Or any edge cut at an angle to a flat surface.

blind grommet (rubber) a hole cover generally used to seal a hole punched or drilled in sheet metal or steel work. Manufactured in a wide variety of diameters and thickness. Uses as an anti rattle hole cover.

bolt a strong metal or thermoplastic threaded fastener that passes through the workpiece and is held in place by a nut or a threaded hole on the other side.

boot (*ie rubber boot*) a protective casing for something that resembles a leg / foot. Flex uses a rubber boot or cap under a levelling foot.

bore diameter of a tube or pipe, size of the hole.

brace a device or component that clamps things together or holds and supports them in position.

bracket a simple rigid structure in the shape of an "L", one arm of which is fixed to a vertical surface, the other projecting horizontally to support weight.

brake something that slows or stops action.

brake loaded (twin 50mm dia wheel castor) or friction castor, brakes or restricts the rolling of the wheels when a downward load(*ie someone sitting on the chair or stool*) is applied.

brake unloaded (twin 50mm dia wheel castor) or friction castor, brakes or restricts the rolling of the wheels when NO downward load is applied to chair or stool attached.

brass a yellow alloy of copper and zinc containing more than 50% of copper.

bridge handle has two fixing points with the hand grip inbetween so one or more hands grip the handle, and exert force to shorten the distance between the hands and their corresponding shoulders.

buffer something that lessens or absorbs the shock of an impact.

bulb a rounded end part.

bush also known as a bushing, is an independent plain bearing that is inserted into a housing to provide a bearing surface for rotary applications; this is the most common form of a plain bearing.

butt joint where two members(square tubes) are joined by simply butting them together, usually end to end or at 90o, using a Flexliner tube connector or Expanding insert.

cantilever a beam, slab or sheet is supported on only one end.

cap a cover for a top or end (*ie cap for a tube end*).

capacity the amount able to hold, the volume.

cast iron A hard, brittle alloy of iron and carbon that can be readily cast in a mold and contains a higher proportion of carbon than steel does.

castor wheel(s) mounted in a fork or housing (either rigid or able to swivel) that can be attached to an object or equipment.

chamfered a corner or edge that has been cut at an angle or bevel.

chrome plated a thin covering of chromium applied to steel or other material surfaces in order to extend working life or give a bright, shiny appearance.

CHS Circular Hollow Section (*ie tube or pipe*).

circlip A ring-shaped clip used to prevent endwise or sidewise movement of cylindrical parts and shafts. An internal circlip is installed in a groove in a housing; an external circlip fits into a groove on the outside of a cylindrical piece such as a shaft. Also know as a snap-ring.

clamp any of various devices used to join, grip, support, or compress mechanical or structural parts.

collar any of various round ring-like devices used to limit, guide, or secure a machine part.

column or pillar in architecture and structural engineering is a vertical structural element that transmits, through compression, the weight of the structure above to other structural elements below.

component(s) a part, assembly or any combination of parts, brought together in the process of manufacture, assembly, maintenance or rebuilding.

compression spring a type of spring that applies a resisting force as it is compressed.

concave curving inwards, a surface that is curved like the inside of a sphere.

conical shaped like a cone.

connector (for tube) all Nylon or Nylon outer with steel tube inside, joins two tubes together by inserting into both ends of the tubes

convex having a surface or boundary that curves or bulges outward, like the outside of a sphere.

core (of tube connectors) the central part or internal of a component.

corner the position at which two lines, surfaces, or edges meet and form an angle.

countersunk Enlarge and bevel the rim of (a drilled hole) so that a screw, nail, or bolt can be inserted flush or level with the surface.

depth is the condition or quality of being deep.

diameter the length of a straight line passing from side to side through the centre of a circle, sphere, etc.

Die casting (zinc) is a metal casting process done by forcing molten metal under high pressure into a mold cavity. The mold cavity is created using two hardened tool steel dies which have been machined into shape and work similarly to molds during the process. Most die castings are made from non-ferrous metals, **specifically zinc**, copper, aluminium, magnesium, lead, pewter and tin based alloys.

dimension a size or measurement

DIN, an abbreviation for Deutsches Institute fur Normung, the German standards body. In reference to fasteners DIN indicates fasteners that conform to a specific metric standard (will be followed by the standard number).

dome a rounded cover with a circular base (*ie dome end cap*)

elastomer any of various polymers having the elastic properties of natural rubber.

EPDM (rubber, ethylene propylene diene monomer) a type of synthetic rubber or elastomer, used outdoors for its resistance to weathering and high temperatures.Also has high durability and resists tearing and solvents.

ERW Electric Resistance Welded (*ie tube*)

eyelet a round hole in fabric, leather or shhet plastic reinforced with a metal ring designed to receive a cord

expanding insert is used to attach a bolt hole or threaded stem castor to a tube, many different sizes for round, square and rectangle tube.

fastner(s) a fastener is a hardware device that mechanically joins or affixes two or more objects together.

felt a matted fabric, or wool, hair etc made by working the fibres together under pressure or by heat or chemical reaction.

female thread where the thread is internal, on the inside.

ferrule a metal or plastic ring or cap placed around a tube, usually at the base for reinforcement or to protect the end of the tube.

fibreglass a material consisting of extremely fine glass fibres, used in making various products, such as yarns, fabrics, insulators, and structural objects or parts.

finger grip finger grip a handle made with ridges or indentations to fit the fingers of a hand.

fixing hole usually a circular hole made to accept a bolt or screw for fast.

flange the flat, protruding edge of a T nut.

flat having a horizontal surface without a slope, tilt, or curvature.

foot (*ie non-tilt or tilting levelling foot*) the part of a levelling device that is in contact with the ground or a surface where it is resting.

foot brake (on castors) a horizontal tab or clip that can be pushed down with the foot to lock or inhibit rolling of a castor wheel.

frame a rigid structure forming a support for other parts

gal galvanised finish to metal

galvabond("GB") is a registered trademark of BlueScope Steel Ltd. To create GB, a pre-galvanised coating is applied to the steel during manufacturing to AS1397.

galvanised to coat (iron or steel) with rust-resistant zinc

glide a component that can be fitted to the base of an object or equipment that allows movement in a smooth, effortless manner

gm gram, weight measurement

grip (*ie finger grip*) a handle that is held between the palm and by wrapping the fingers around

gudgeon a fitting often made of metal, which is fixed on a surface, allowing for pivoting or rotation of another fixture (*ie hinges*)

gusset a bracket strengthening an angle of a structure

H.I.P High Intensity Polystyrene, strong but brittle to shock load impact plastic

handle a part that is designed to be held or operated with the hand. **handwheel** control consisting of a wheel whose rim serves as the handle by which a part is operated.

HD-PE a lightweight thermoplastic material composed of polymers of ethylene. Has relatively high rigidity(strength) and is chemically inert.

head the top most part of an object.

height the distance from the base of something its the top.

hemisphere refers to a half of a sphere bounded by a great circle.

hexagon a plane figure with six straight sides and angles

hinge a jointed or flexible device that allows the turning or pivoting of a part, such as a door or lid, on a stationary frame.

housing refers to a hole, groove, or slot in a component into which another piece is inserted.

id internal diameter.

imperial conforming to standards legally established in Great Britain for weights and measures, etc. (*eg measurement in inches, weight in pounds, etc*).

inclination (angle of) refers to a deviation or the degree of deviation from the horizontal or vertical.

internal means of, relating to, or located within the limits or surface; inner.

IP rating a rating system that defines the degree of protection provided by electrical enclosures according to IEC publications 144 and 529.

joint a point at which parts of an artificial structure or members are attached

kgs kilograms, weight measurement, 1,000 grams.

knurled one of a series of small ridges or grooves on the surface or edge of a metal object, such as a thumbscrew, to aid in gripping.

LDPE low density polyethylene is a thermoplastic made from oil. It is quite flexible, and tough to the degree of being almost unbreakable. It is unreactive at room temperature, except by strong oxidizing agents and some solvents cause its swelling. Can withstand temperatures up to 80°C continuously.

lever refers to a projecting handle used to adjust or operate a mechanism.

lobe a rounded projection that is part of a larger structure.

lock a device operated by a key, combination, or keycard and used, as on a door, for holding, closing, or securing.

M10 *ie usually a thread* of 10mm measurement

M12 *ie usually a thread* of 12mm measurement.

M16 *ie usually a thread* of 16mm measurement.

M20 *ie usually a thread* of 20mm measurement.

M6 *ie usually a thread* of 6mm measurement.

M8 *ie usually a thread* of 8mm measurement.

male thread where the thread is external or protruding from the head (*ie the thread of a screw or bolt*), on the outside.

malleable (cast) iron (round tube clamps) is a heat-treated iron-carbon alloy, which solidifies in the as-cast condition with a graphite-free structure, i.e. the total carbon content is present in the cementite form (Fe₃C).

material the substance or substances out of which a thing is or can be made.

maximum the greatest possible quantity or degree.

metric a decimal system of measures and weights, using the metre, litre and gram as units.

mild steel any of a class of strong tough steels that contain a low quantity of carbon.

minimum the smallest possible quantity.

mm millimetres, length measurement, 1,000 millimetres equals a metre.

modular something constructed or assembled so as to allow easy and flexible arrangement or rearrangement, and/or repair to the parts making up a module (*ie modular bases and frames*).

nail (as in felt nail-on feet) the pin-shaped metal fastener used in engineering, woodworking and construction

nbi Nominal Bore Internal, an imperial measurement of tube or pipe size.

nickel plated, a thin layer of nickel placed by electrolysis on objects made of other metal, to improve the finish and prevent rust
nut a type of hardware fastener with a threaded hole.

Nylock nut, a nut with a nylon insert to help prevent backing off (loosening or un-screwing).

nylon a synthetic polymer, a plastic, of great lightness and strength.

"O" ring (on a sealing screw plug) also known as a packing, or a toric joint, is a loop of elastomer or rubber with a disc-shaped cross-section, designed to be seated in a groove and compressed during assembly between two or more parts, creating a seal at the interface.

o.d. or O/D Outside Diameter, (*ie outside diameter of a tube or pipe*).

oblong usually a rectangular shape with one pair of sides longer than the other.

octagon a plane figure with eight straight sides and eight angles.

oval a round symmetrical shape longer than it is across.

PA GF an acronym for Polyamide Glass Fibre reinforced plastic.

panel/sheet (metal) typically a rectangular or square piece of metal used to cover a opening or used to cut or punch out shapes or holes.

PE polyethylene.

pedestal a support or foundation.

perpendicular being at right angles to the horizontal; vertical.

pin a pin or bolt on which another part turns (*ie castor pin*).

pipe a tube through which something can flow (*ie fluids, water, gas etc*).

plain tube inserts one that has no ribs and is made to fit into one size of tube wall. There can be exceptions where the shank is tapered to fit more than one size.

plastic A synthetic material made from a wide range of organic polymers such as polyethylene, PVC, nylon, etc., that can be molded into shape while soft and then set into a rigid or slightly elastic form.

plate refers to a smooth, flat, relatively thin, rigid body of uniform thickness.

plug A piece of solid material fitting tightly into a hole and blocking it up.

plug-in (tube connector) insert a component into the end of a tube, that seals or completely fills the hole.

PA (polyamide) refers to a polymer containing repeated amide groups, (*eg various kinds of nylon*).

PP (polypropylene) any of various thermoplastic resins that are polymers of propylene. They are hard and tough, and are used to make moulded articles and fibres.

powder coating (paint) is a type of coating that is applied as a free-flowing, dry powder. The main difference between a conventional liquid paint and a powder coating is that the powder coating does not require a solvent to keep the binder and filler parts in a liquid suspension form. The coating is typically applied electrostatically and is then cured under heat to allow it to flow and form a "skin". Usually applied to aluminium or steel to create a hard finish that is tougher than conventional paint.

pulley a wheel with a grooved rim that carries a rope, bely or chain that turns in a frame or block to change the direction of or to transmit force.

PVC any of a family of polymers derived from vinyl chloride. A common thermoplastic resin.

R clip a type of spring. Made of spring steel in the shape of a letter "R". Used to hold a pin, pintal or coupling in place.

radius a straight line extending from the centre of a circle or sphere to its circumference or edge.

RAL colours a color matching system used in Europe. Can be used to name and identify colours when ordering plastic injection moulded components.

raw (steel) finish an uncoated metal, ie not painted, galvanised or plated.

recessed to create or fashion a recess in.

rectangle a four-sided plane figure with four right angles.

reducing bush

RHS Rectangle Hollow Section (*ie tube or pipe*).

Rib ribbed, refers to the angled protrusions or fins sticking out of the shank of a tube insert, that enable the insert to grip the internal wall of the tube or pipe.

rigid stiff, not bending (*ie rigid levelling foot*)

rotation pin a length of round metal rod used to hold the two leaves of a hinge in place and allow the hinge to move.

round being such that every part of the surface or the circumference is equally distant from the centre.

rubber an elastic material made by mixing and drying latex from a rubber tree.

saddle a component which is convex at the top and in some cases the bottom as well, that allows the fastening of a round tube onto it (*ie saddle spacers*).

scallop (edge) a series of curved projections around the outer edge of an item (*ie a scalloped handwheel*).

screw a cylindrical rod having one or more helical or advancing spiral threads.

serrated having or denoting a jagged edge; sawlike. As in round serrated bases or handwheel hubs.

shank the part of a tube insert below the head that resides inside the tube.

sheaves are grooved wheels or pulleys used with rope or chain to change the direction and point of application of pulling force.

SHS Square Hollow Section (*ie tube or pipe*).

skein nut an external threaded metal bush with internal thread. The external thread allows the bush to be screwed into a timber frame or board ready to have a component, frame or fitting screw into the nut.

sled base (chair) refers to a chair made to have long straight metal or timber horizontal strips in contact with the floor.

slim small in girth or thickness in proportion to height or length; slender.

slot (or slotted) A narrow opening through which an object can pass.

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slot (or slotted) A narrow opening through which an object can pass.

soft tyre a castor wheel usually made of Nylon / polyamid with a rubber or elastomer tread moulded to it.

spacer usually a round plastic cylinder of varying length, outer and internal diameter depending on application used to separate components, tube or assemblies when they are bolted together.

specification the act of specifying.

split ring a type of circular helical spring, able to be split or opened to allow a ring or component to feed through it. Most commonly used on key rings.

spring steel a low alloy, medium carbon steel or high carbon steel with a very high yield strength. This allows objects made of spring steel to return to their original shape despite significant bending or twisting.

square a plane figure having four equal sides.

squat (glide) short and wide; disproportionately broad or wide in relation to height.

stainless steel a type of steel containing an amount of chromium making it resistant to rust and tarnishing.

static load a load which does not undergo a change in magnitude or direction during a measurement procedure.

steel any of a number of alloys based on iron containing carbon and often small quantities of other elements such as phosphorus, sulphur, manganese, chromium and nickel.

swaged (tube) to bend or shape by or as if by using a swage.

swg or **g** Standard Wire Gauge or Gauge, imperial measurement of thickness.

swivel a link, pivot, or other fastening so designed that it permits the free turning of attached parts.

T nut, A thin nut with a flange on one end. Intended to be inserted in a hole, in wood, with the flange on the surface. Used to allow a bolt to be fastened in wood without a protruding nut.

tall having a specified height.

tapered diminish or reduce or cause to diminish or reduce in thickness toward one end.

tensile strength The ability of a metal to resist forces that attempt to pull apart or stretch it.

tension the act or process of stretching something tight.

thermoplastic a group of plastics that softens when heated and hardens when cooled, with no appreciable chemical change.

thickness the quality or condition of being thick.

thread (screw) often shortened to thread, is a ridge wrapped around a cylinder or cone in the form of helix, called a straight thread.

threaded stem (for a castor) a threaded metal rod that has the unthreaded end made to fit into the body of a castor or glide, the threaded length is designed to be screwed onto a tube, frame or structure.

thread stop the maximum length of thread inside threaded insert or expanding insert.

tilt (tilting) for level feet.

tube a long hollow cylinder (*ie round steel tube*).

tube closure another name for "tube insert" above.

tube insert or tube closures are plastic or metal component that are pushed into a tube end to black it completely. Many sizes made to suit the outside diameter and wall thickness of tubes.

tyre a hoop of metal or rubber fitted around a wheel.

vent an opening permitting the escape of fumes, a liquid, a gas, or steam.

wall thickness a measurement or value (usually millimeters or fractions of an inch) that indicates the thickness of wall tubing. Wall thickness may remain unchanged as the outside diameter and inner diameter change.

washer a ring of metal, thermoplastic or rubber (etc) placed between two surfaces (*ie under a nut*) to give great tightness or prevent leakage.

weight a measure of the heaviness of an object.

weld to join (metals) by applying heat, sometimes with pressure and sometimes with an intermediate or filler metal having a high melting point.

wheel a disc or circular frame arranged to revolve on a shaft that passes through its centre.

width the measurement of the extent of something from side to side

z.p. or ZP zinc plated finish to metal.

