BOLLARD SHOP

Product Catalogue

PIPE FITTINGS



Galvanised key clamp fittings for 48.3 mm and 60.3 mm tube

Hot dip galvanised malleable iron fittings for building trolley bays, safety barriers, handrails, frames and gates from round steel tube. Malleable iron is cast iron that has been heat treated, which makes it tough and less likely to crack. Every fitting is on the following pages with its dimension drawing, and each size links straight to its page on our website.

Tees	8 fittings · page 2
Crosses	5 fittings · page 4
Elbows and angles	7 fittings · page 5
Bases and flanges	5 fittings · page 7
Brackets and wall fixings	8 fittings · page 8
Joints and swivels	3 fittings · page 10
Gates, mesh and finishing	7 fittings · page 11
Tube	48.3 and 60.3 mm · page 12
Example builds	drawings and parts lists · page 13

How to read the drawings
Each drawing shows the fitting with letters (a, b, c) for its key measurements. The table under it gives those measurements in millimetres for 48.3 mm tube.

Fittings marked 60.3 mm also come for the larger tube. Some fittings also come in safety yellow.

Not sure which fitting you need? Send us a sketch or photo and we will help.

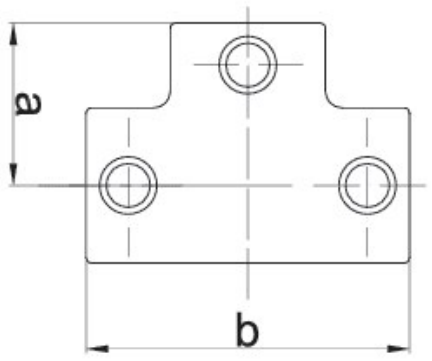
Scan for price, stock and online ordering

Talk to our team:

Call 1300 766 003

Delivery. Fittings can be sent anywhere in Australia. Tube is pickup only, because long lengths are expensive to freight. Call us if you need it delivered.

Good to know. Product details are a guide only. Sizes, weights, colours and finishes can vary slightly between batches and may change without notice. If an exact measurement matters for your job, please call us on 1300 766 003 to confirm before you order.



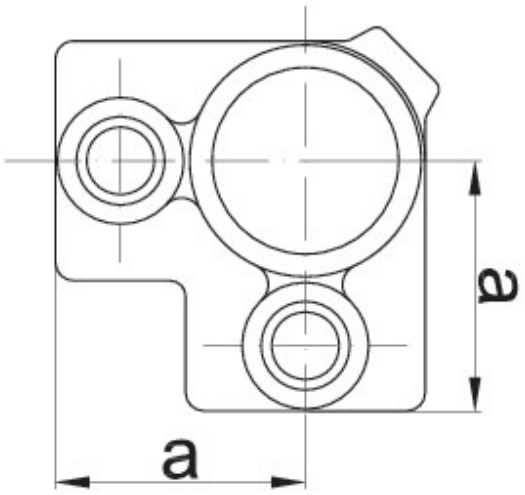
Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	68	136

TEES

Three Socket Tee

48.3 mm | 60.3 mm | 48.3 mm yellow

60.3 mm size: length 168 mm, width 84 mm.



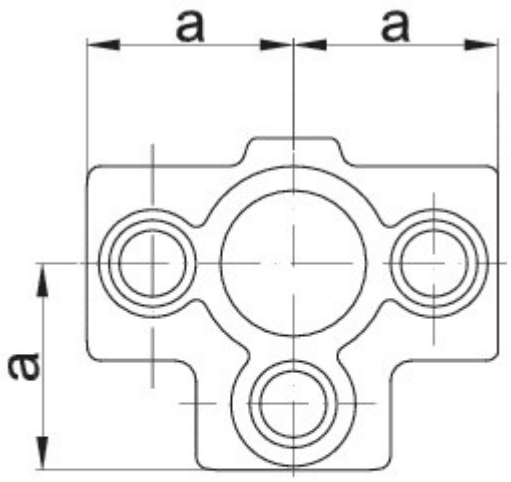
Tube Size (mm)	Dimensions (mm)
	A
48.3mm	68

TEES

90 Degree Two Socket Tee

48.3 mm | 60.3 mm | 48.3 mm yellow

60.3 mm size: width 86 mm.

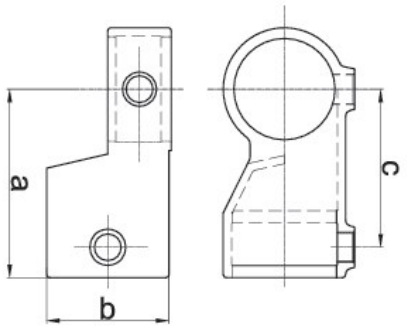


Tube Size (mm)	Dimensions (mm)
	A
48.3mm	68

TEES

Side Outlet Tee

48.3 mm | 48.3 mm yellow

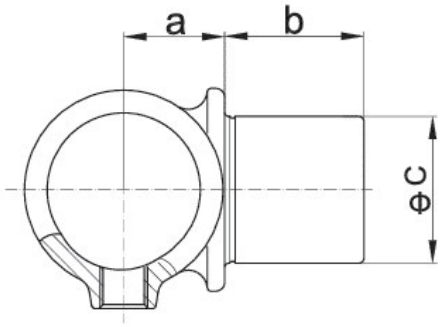


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	93	60.5	78

TEES

Short Swivel Tee

48.3 mm

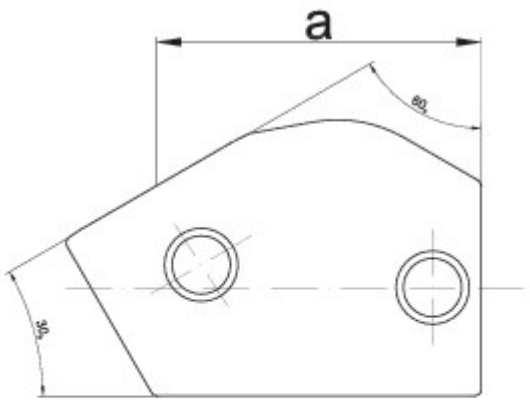


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	30	42	48

TEES

Internal Swivel Tee

48.3 mm

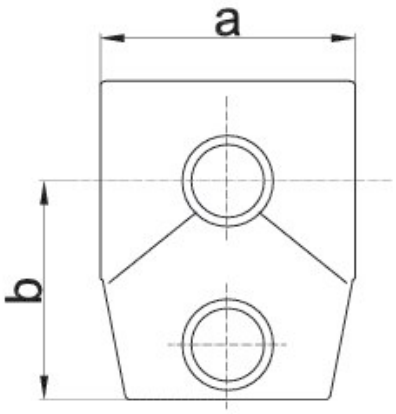


Tube Size (mm)	Dimensions (mm)
	A
48.3mm	90

TEES

Adjustable Short Tee 30-60 Degree

48.3 mm

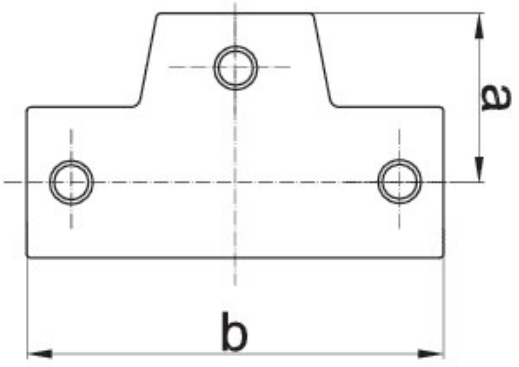


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	78	68

TEES

Slope Pipe Short Tee – 0 to 11 Degree

48.3 mm

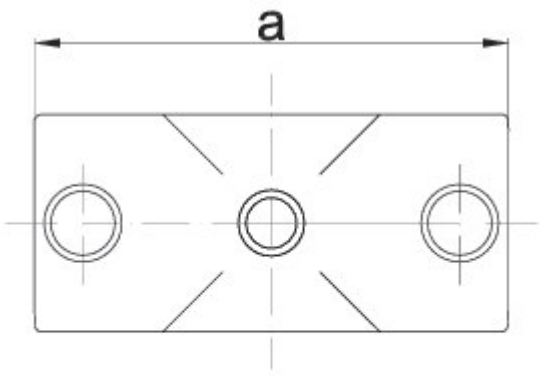


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	68	168

TEES

Slope Three Socket Tee – 0 to 11 Degree

48.3 mm



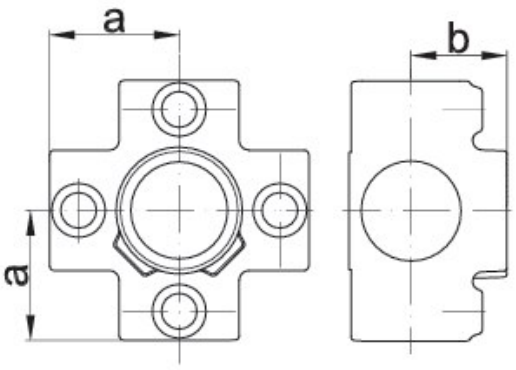
Tube Size (mm)	Dimensions (mm)
	A
48.3mm	135

CROSSES

Two Socket Cross

48.3 mm | 60.3 mm | 48.3 mm yellow

60.3 mm size: length 168 mm.

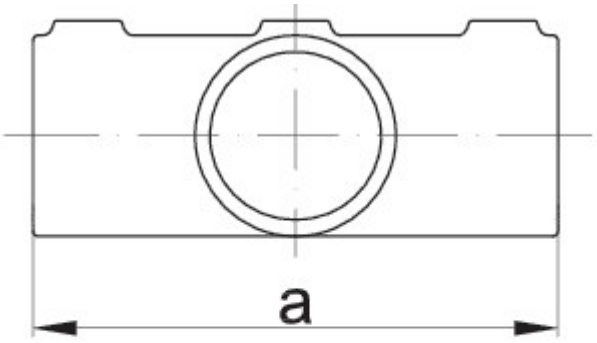


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	68	49.5

CROSSES

Four Socket Cross

48.3 mm

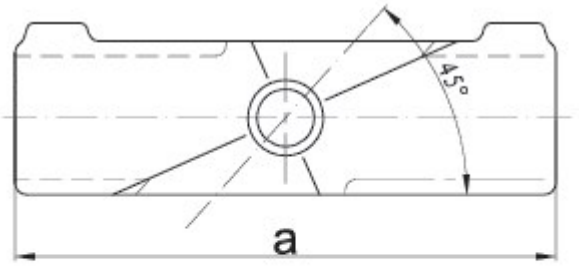


Tube Size (mm)	Dimensions (mm)
	A
48.3mm	158

CROSSES

Two Socket Cross – 0 to 11 Degree

48.3 mm

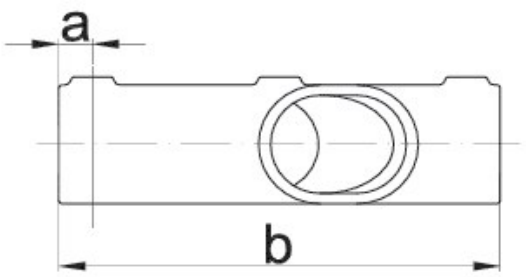


Tube Size (mm)	Dimensions (mm)
	A
48.3mm	218

CROSSES

Two Socket Cross – 30 to 45 Degree

48.3 mm

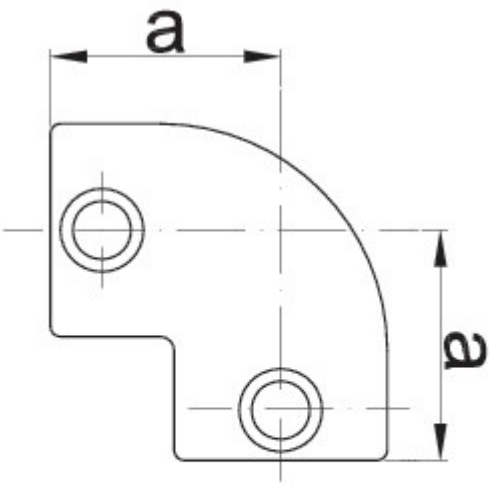


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	16.5	217

CROSSES

Adjustable Angle Two Socket Cross

48.3 mm



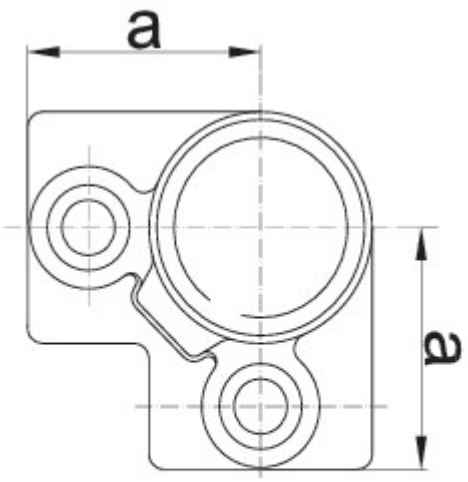
Tube Size (mm)	Dimensions (mm)
	A
48.3mm	68

ELBOWS AND ANGLES

90 Degree Two Way Elbow

48.3 mm | 60.3 mm | 48.3 mm yellow

60.3 mm size: width 84 mm.

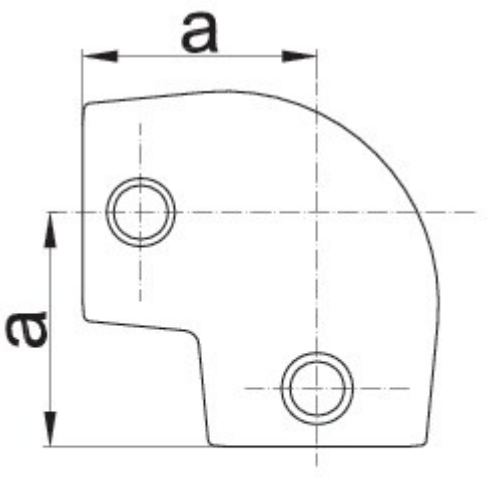


Tube Size (mm)	Dimensions (mm)
	A
48.3mm	68

ELBOWS AND ANGLES

3 Way 90 Degree Elbow

48.3 mm | 48.3 mm yellow

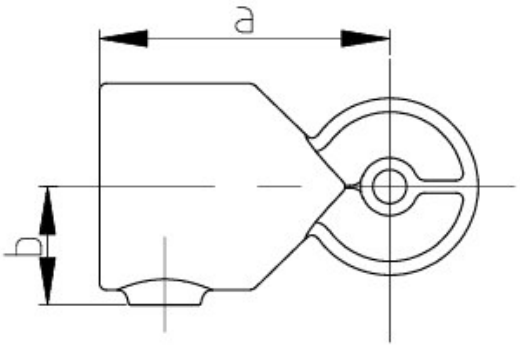


Tube Size (mm)	Dimensions (mm)
	A
48.3mm	68

ELBOWS AND ANGLES

0 to 11 Degree Elbow

48.3 mm

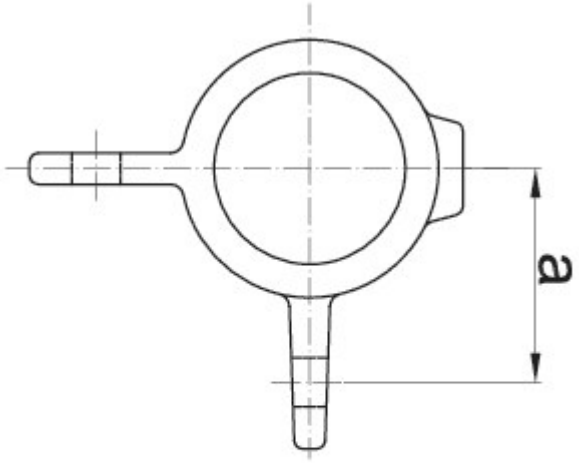


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	85	34.7

ELBOWS AND ANGLES

Variable Swivel Elbow

48.3 mm

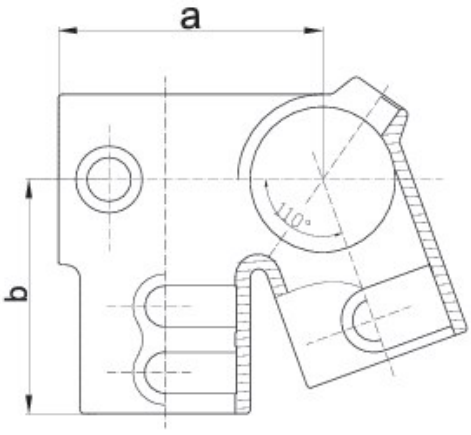


Tube Size (mm)	Dimensions (mm)
	A
48.3mm	53

ELBOWS AND ANGLES

90° Corner Swivel Male Section

48.3 mm

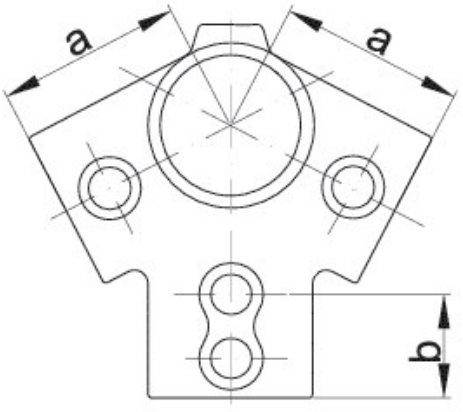


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	94	83

ELBOWS AND ANGLES

Eaves Fitting – 27.5 Degree

48.3 mm

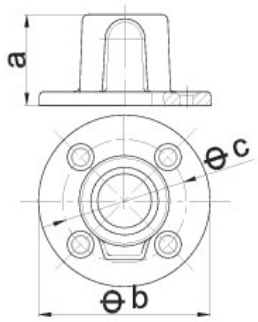


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	70	39.5

ELBOWS AND ANGLES

Ridge Fitting

48.3 mm

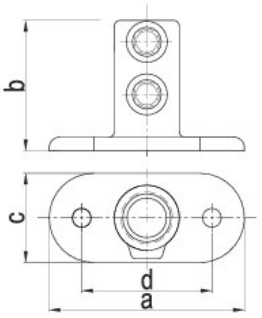


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	59	114	88.5

BASES AND FLANGES

Base Flange

48.3 mm

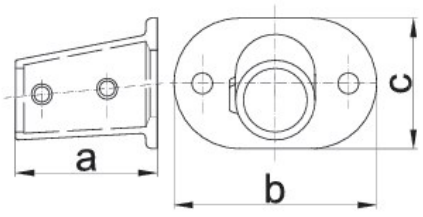


Tube Size (mm)	Dimensions (mm)			
	A	B	C	D
48.3mm	152	89	86	114

BASES AND FLANGES

Railing Base Flange

48.3 mm | 48.3 mm yellow

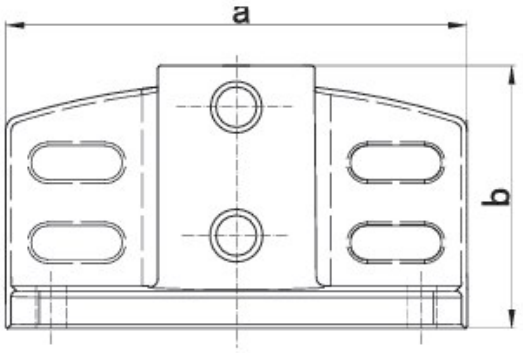


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	99	153	96

BASES AND FLANGES

Slope Base Flange – 0 to 11 Degree

48.3 mm

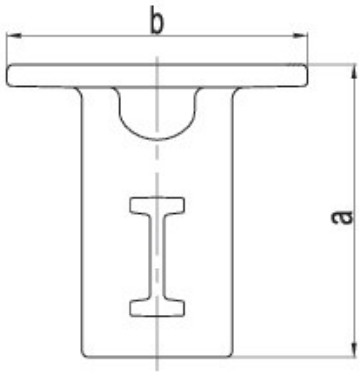


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	162	90

BASES AND FLANGES

Flange With Toeboard Adaptor

48.3 mm

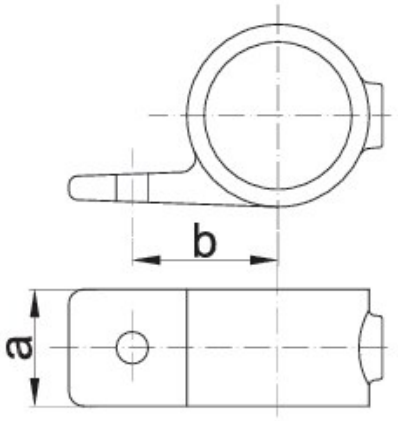


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	136	140

BASES AND FLANGES

Ground Socket

48.3 mm

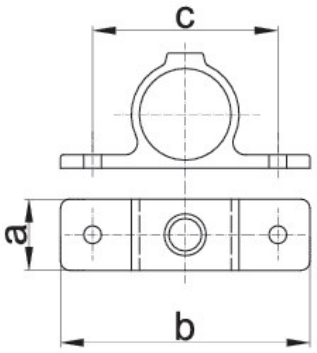


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	35	52

BRACKETS AND WALL FIXINGS

Adjustable Fixing Bracket

48.3 mm

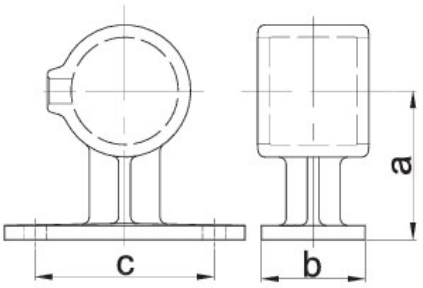


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	35	140	104

BRACKETS AND WALL FIXINGS

Double Sided Fixing Bracket

48.3 mm

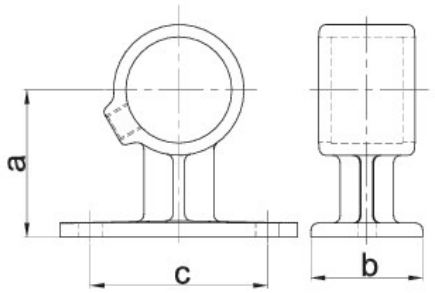


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	67	48	82.5

BRACKETS AND WALL FIXINGS

Handrail Bracket

48.3 mm

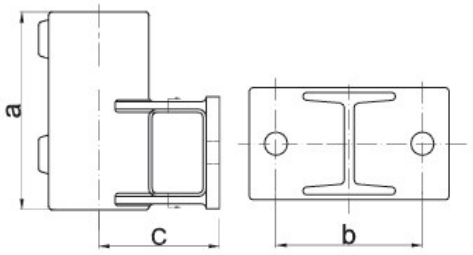


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	67	50	82.5

BRACKETS AND WALL FIXINGS

Railing Bracket

48.3 mm

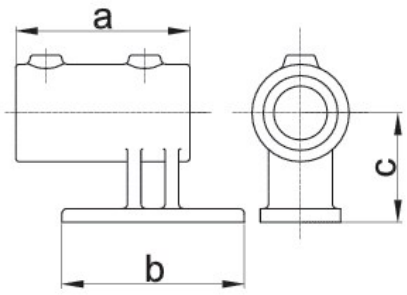


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	119	89	73

BRACKETS AND WALL FIXINGS

Railing Side Support – Horizontal

48.3 mm

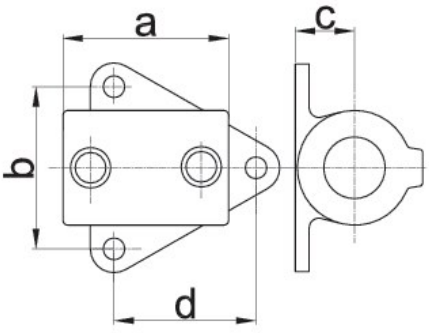


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	120	123	65

BRACKETS AND WALL FIXINGS

Railing Side Support – Vertical

48.3 mm

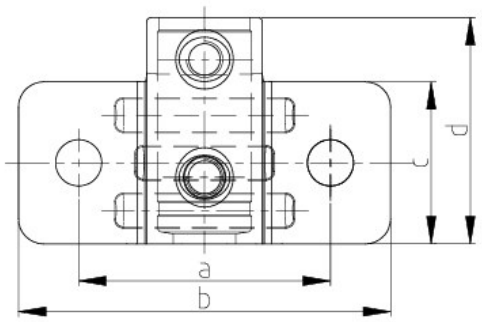


Tube Size (mm)	Dimensions (mm)			
	A	B	C	D
48.3mm	89	86	31	78

BRACKETS AND WALL FIXINGS

Side Palm Fixing

48.3 mm

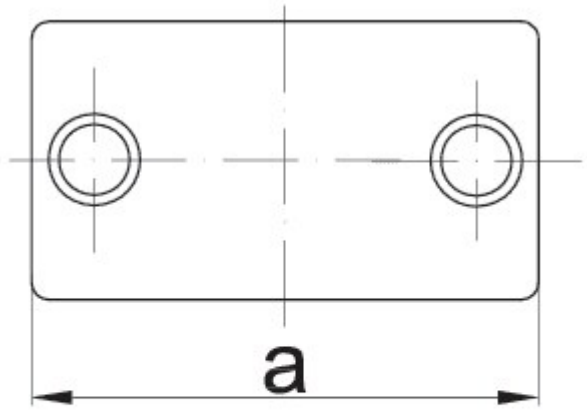


Tube Size (mm)	Dimensions (mm)			
	A	B	C	D
48.3mm	102	145	75	90

BRACKETS AND WALL FIXINGS

Heavy Duty Side Palm

48.3 mm



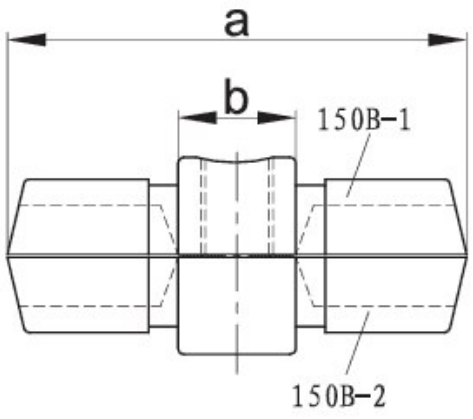
Tube Size (mm)	Dimensions (mm)
	A
48.3mm	102

JOINTS AND SWIVELS

External Sleeve Joint

48.3 mm 60.3 mm

60.3 mm size: length 120 mm.

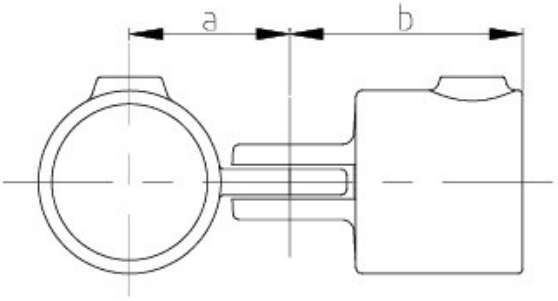


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	78	20

JOINTS AND SWIVELS

Internal Joint

48.3 mm

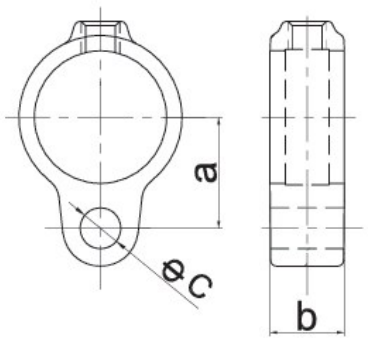


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	53	77

JOINTS AND SWIVELS

Single Swivel Combination

48.3 mm

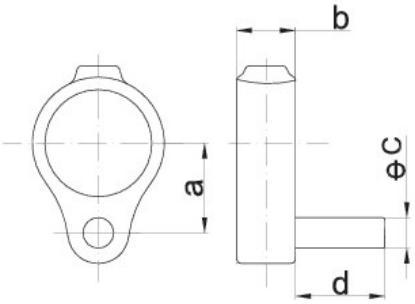


Tube Size (mm)	Dimensions (mm)		
	A	B	C
48.3mm	41	25	14

GATES, MESH AND FINISHING

Gate Eye

48.3 mm

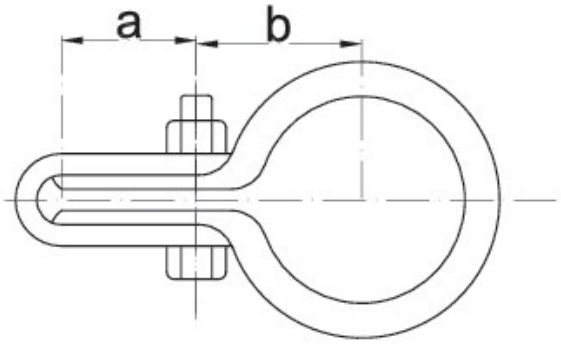


Tube Size (mm)	Dimensions (mm)			
	A	B	C	D
48.3mm	41	25	12	38

GATES, MESH AND FINISHING

Gate Hinge

48.3 mm

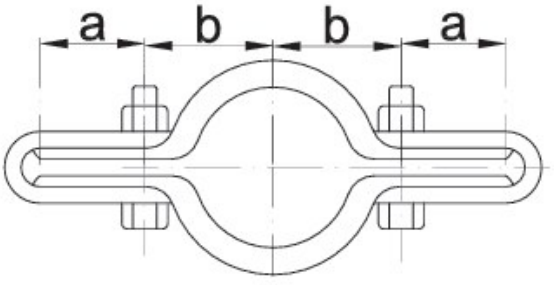


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	25	35

GATES, MESH AND FINISHING

Single Sided Mesh Panel

48.3 mm

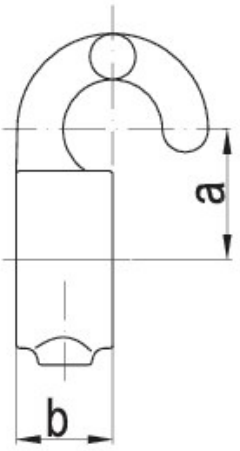


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	25	35

GATES, MESH AND FINISHING

Double Sided Mesh Panel

48.3 mm

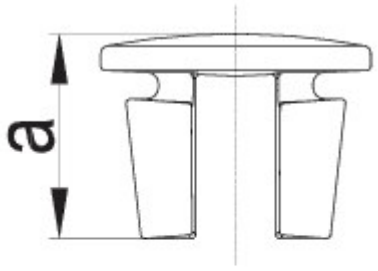


Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	41	25

GATES, MESH AND FINISHING

Hook Structural Pipe Fitting

48.3 mm

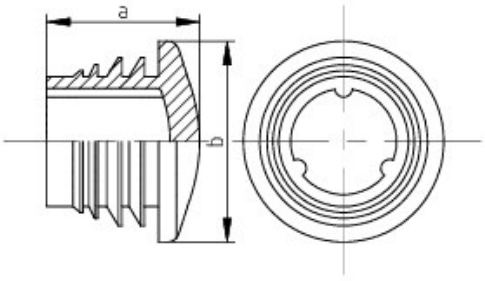


Tube Size (mm)	Dimensions (mm)
	A
48.3mm	28

GATES, MESH AND FINISHING

Plug Structural Pipe Fitting

48.3 mm



Tube Size (mm)	Dimensions (mm)	
	A	B
48.3mm	31	48

GATES, MESH AND FINISHING

Plastic End Cap

48.3 mm



TUBE

Galvanised tube

48.3 mm 60.3 mm 48.3 mm yellow

48.3 mm galvanised tube: 3.2 mm wall, 3 m lengths, hot dip galvanised.

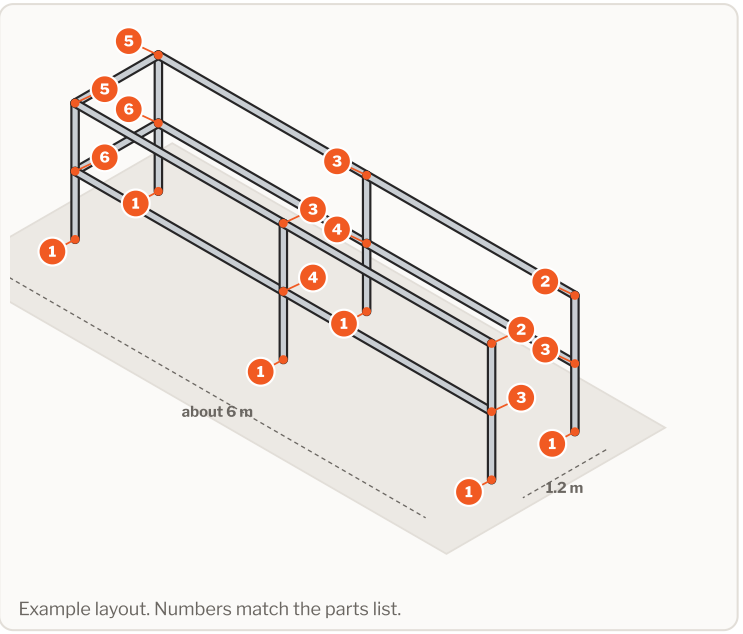
Pickup only. Long lengths of tube are expensive to freight, so tube is for pickup in store. Call us if you need it delivered. Fittings can be sent anywhere in Australia.

Example builds

Key clamp fittings lock onto the tube with set screws tightened with a hex key, so there is no welding or threading. Here are three common builds with the fittings you need. Use them as a starting point, or send us your sketch and we will work out the parts for you.

Trolley bay

Keeps shopping trolleys in one tidy spot. About 6 m long and 1.2 m wide, with a closed back, an open front and two rails.



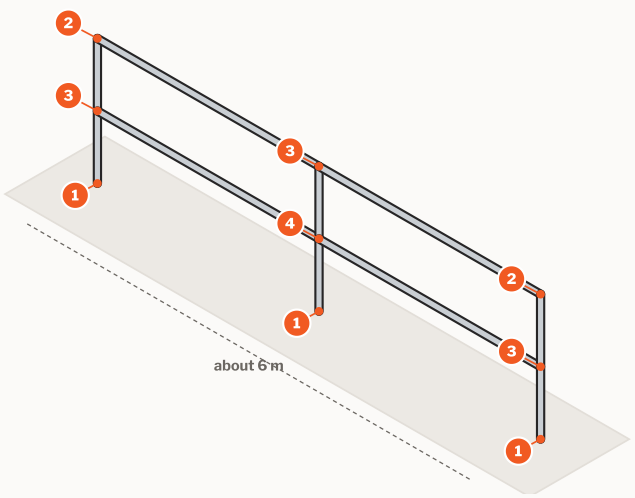
Example layout. Numbers match the parts list.

Part			Qty
1		**Base Flange** one under each post	6
2		**90 Degree Two Way Elbow** top of the two open-end posts	2
3		**Three Socket Tee** middle rail at the open end, and top rail at the middle posts	4
4		**Four Socket Cross** middle rail at the middle posts	2
5		**3 Way 90 Degree Elbow** top of the two back corners	2
6		**90 Degree Two Socket Tee** middle rail at the back corners	2
T		**48.3 mm galvanised tube** About 11 lengths of 3 m tube: 8 for the side rails, 2 cut into the 6 posts and 1 cut into the 2 back rails.	

Planning your own build? These are example layouts. Sizes and post spacing depend on your site and use. Fix base flanges down with fixings to suit your surface, and ask our team which to use. Where a barrier or handrail must meet building rules, check the design with your builder or engineer. Send us a sketch or call 1300 766 003 and we will help.

Safety barrier

Keeps people away from traffic, machinery, loading bays or edges. A 6 m run with three posts and two rails.

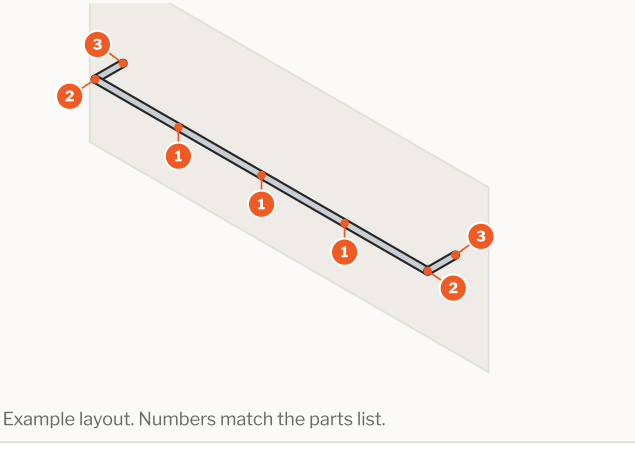


Example layout. Numbers match the parts list.

Part		Qty
1	**Railing Base Flange** one under each post	3
2	**90 Degree Two Way Elbow** top of the two end posts	2
3	**Three Socket Tee** middle rail at the end posts, and top rail at the middle post	3
4	**Four Socket Cross** middle rail at the middle post	1
T	**48.3 mm galvanised tube** About 5 lengths of 3 m tube: 4 for the rails and 1 cut into the 3 posts.	

Wall handrail

A simple handrail along a wall or corridor. A 3 m rail with its ends turned back to the wall.



Example layout. Numbers match the parts list.

Part		Qty
1	**Handrail Bracket** holding the rail off the wall along its length	3
2	**90 Degree Two Way Elbow** turning each end back to the wall	2
3	**Side Palm Fixing** fixing each end flat to the wall	2
T	**48.3 mm galvanised tube** One 3 m length for the rail, plus two short pieces cut for the returns to the wall.	

Good to know. Product details are a guide only. Sizes, weights, colours and finishes can vary slightly between batches and may change without notice. If an exact measurement matters for your job, please call us on 1300 766 003 to confirm before you order.