

101 SHORT TEE



TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
A	26.9	41			
B	33.7	46			
C	42.4	60			
CD	42.4/48.3	68			
D	48.3	68			
DC	48.3/42.4	63			
E	60.3	84			
T	21.3	35			

104 LONG TEE



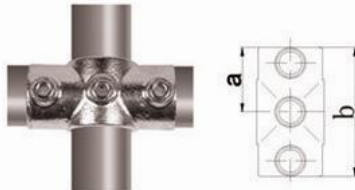
TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
A	26.9	40	80		
B	33.7	46	92		
C	42.4	60	120		
D	48.3	68	136		
E	60.3	84	168		

116 3 WAY THROUGH



TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
A	26.9	40			
B	33.7	48			
C	42.4	60			
D	48.3	68			
E	60.3	86			
T	21.3	35			

119 2 SOCKET CROSS



TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
A	26.9	40	80		
B	33.7	46	92		
C	42.4	60	120		
CD	42.4/48.3	61	122		
D	48.3	67.5	135		
E	60.3	84	168		
T	21.3	35	70		

123 VARIABLE ELBOW 40°-70°



TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
D	48.3	20	134	120	

124 VARIABLE ELBOW 15°-60°



TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
B	33.7	40	46.5		
C	42.4	47.5	55		
D	48.3	44	60.5		

125 2 WAY 90° ELBOW



TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
A	26.9	41	41		
B	33.7	46	46		
C	42.4	60	60		
D	48.3	68	68		
E	60.3	84	84		
DC	48.3/42.4	60	68		
T	21.3	35	35		

125H VARIABLE ELBOW



TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
C	42.4	75	40	31.7	55
D	48.3	85	49	34.7	60.5

126 ANGLE CROSS UP TO 45°



TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
B	33.7	81	126		
C	42.4	95	190		
D	48.3	109	218		

127 ANGLE TEE UP TO 45°



TYPE	TUBE SIZE (mm)	DIMENSIONS (mm.)			
		a	b	c	d
D	48.3	79	164.5	80	15

128 3 WAY 90° ELBOW



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	40			
B	33.7	48			
C	42.4	60			
D	48.3	68			
E	60.3	85			
T	21.3	35			

129 ADJUSTABLE TEE



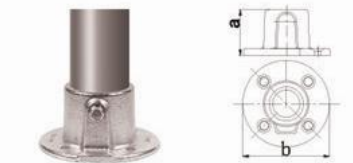
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	75			
B	33.7	70			
C	42.4	85			
D	48.3	90			

130 ADJUSTABLE CORSS



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B	33.7	14.5	147		
C	42.4	16.5	199		
D	48.3	16.5	217		

131 BASE FLANGE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	φ
A	26.9	42	83		8
B	33.7	48	89		6.5
C	42.4	50	102		6.5
D	48.3	59	114		6.5
E	60.3	64	127		9.5
T	21.3	32	74		8

132 RAILING BASE FLANGE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	φ
A	26.9	105	60	52	11.5
B	33.7	128	89	65	14.5
C	42.4	140	102	76	14.5
D	48.3	152	90	89	14.5
E	60.3	165	107	121	17.5

134 GROUND SOCKET



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
C	42.4	63	135	139	
D	48.3	67	135	139	

135 CLAMP ON TEE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	50			
B	33.7	53			
C	42.4	67			
D	48.3	77			
E	60.3	90.5			

136 ADD ON TEE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
C-1	42.4	61.4	60	55	
D-1	48.3	67	69	60.5	
C-2	42.4	61.4	22	57	
D-2	48.3	67	26	60.5	

137 Crossover 90°



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
D-1	48.3	67	55	51	
D-2	48.3	67	26	60.5	

138 GATE EYE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	30	25	14	
B	33.7	33	25	14	
C	42.4	38	25	14	
D	48.3	41	25	14	

140 GATE HINGE



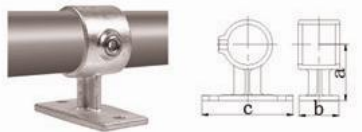
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	30	25	12.6	38
B	33.7	33	25	12.6	38
C	42.4	38	25	12.6	38
D	48.3	41	25	12.6	38

143 HANDRAIL BRACKET



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	φ
A	26.9	54	44	76	8
B	33.7	57	44	79.5	8
C	42.4	62	44	101	8
D	48.3	70	50	107	8

143W HANDRAIL BRACKET



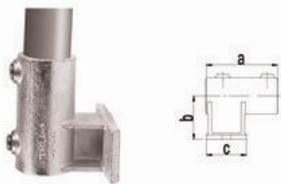
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	φ
A	26.9	55	44	78	8
B	33.7	57	44	82	10
C	42.4	63	44	102	10
D	48.3	67	48	108	10

144 RAILING SIDE SUPPORT (VERTICAL)



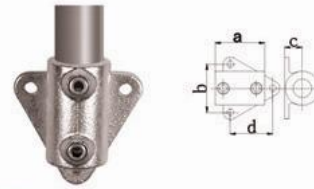
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B	33.7	114	96	65	
C	42.4	112	110	64	
D	48.3	120	123	65	

145 RAILING SIDE SUPPORT (HORIZONTAL)



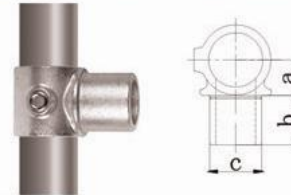
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B	33.7	102	57	45	
C	42.4	111	64	53	
D	48.3	119	73	68	

146 SIDE PALM FIXING



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B	33.7	76	71	24	63
C	42.4	83	82	28	72
D	48.3	89	86	31	78

147 INTERNAL SWIVEL TEE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
C	42.4	26	37	42	
D	48.3	30	42	48	

148 SHORT SWIVEL TEE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	53			
B	33.7	59			
D	48.3	93			

149 SLEEVE JOINT



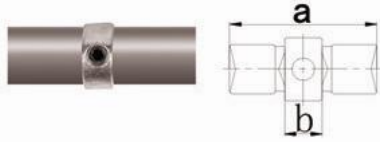
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	76			
B	33.7	89			
C	42.4	102			
D	48.3	100			
E	60.3	120			

149BA SLEEVE JOINT



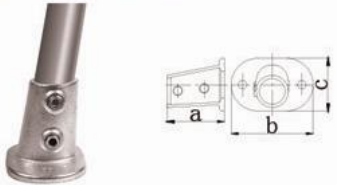
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
BA	33.7/26.9	46	37	130	

150 INTERNAL JOINT



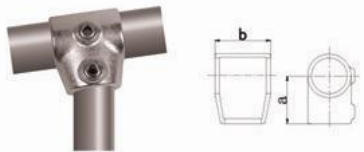
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B-1	33.7	78	20		
C-1	42.4	78	20		
D-1	48.3	78	20		

152 BASE FLANGE 0°-11°



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	φ
C	42.4	98	140	90	14.5
D	48.3	99	153	96	14.5

153 SHORT TEE 0°-11°



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B	33.7	46	60		
C	42.4	60	70		
D	48.3	68	78		

154 ELBOW 0°-11°



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
C	42.4	60			
D	48.3	68			

155 LONG TEE 0°-11°



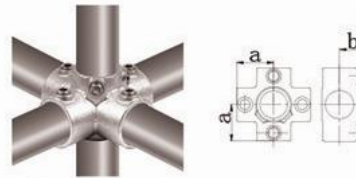
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B	33.7	46	104		
C	42.4	60	145		
D	48.3	68	168		

156 2 SOCKET CORSS 0°-11°



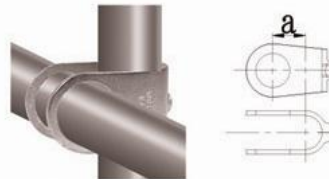
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
C	42.4	140			
D	48.3	158			

158 4 WAY CORSS



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	41	32		
B	33.7	46	35		
C	42.4	60	43.5		
D	48.3	68	49.5		
T	21.3	35	35		

160 CLAMP ON CROSSOVER



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B	33.7	34			
C	42.4	43			
D	48.3	49			
E	60.3	61			

161 90° CROSSOVER



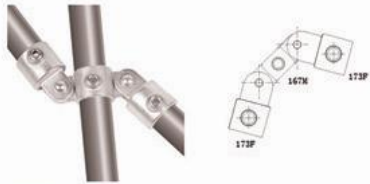
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	36	31.5		
B	33.7	41	38.5		
C	42.4	50	45		
CB	42.4/48.3	45	46		
D	48.3	50	55		
E	60.3	64	61		

165 COMBINATION SOCKET



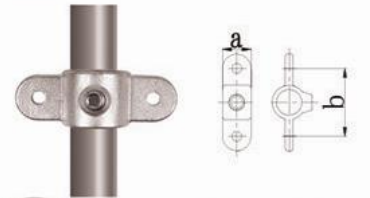
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B	33.7	40	48		
C	42.4	50	60		
D	48.3	56	67		

167 DOUBLE SWIVEL COMBINATION



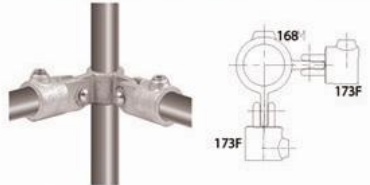
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9				
B	33.7				
C	42.4				
D	48.3				

167M DOUBLE MALE SECTION OF SWIVEL



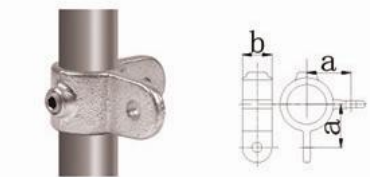
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
MA	26.9	32	76		
MB	33.7	40	86		
MC	42.4	45	95		
MD	48.3	48	105		

168 90° CORNER SWIVEL COMBINATION



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9				
B	33.7				
C	42.4				
D	48.3				

168M 90° CORNER SWIVEL MALE SECTION



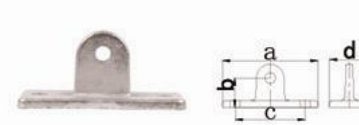
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
MA	26.9	38	32		
MB	33.7	43.5	38		
MC	42.4	47	32		
MD	48.3	53	44.5		

169 SWIVEL BASE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9				
B	33.7				
C	42.4				
D	48.3				
E	60.3				

169M MALE SWIVEL LOCATING FLANGE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
		112	32	85	11.2

170 SINGLE SIDED MESH PANEL



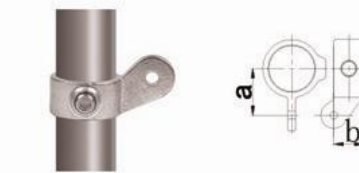
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	22	25		
B	33.7	25	28		
C	42.4	25	33		
D	48.3	25	35		
E	60.3	25	40		

171 DOUBLE SIDED MESH PANEL



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	22	25		
B	33.7	25	28		
C	42.4	25	33		
D	48.3	25	35		
E	60.3	25	40		

172M OFFSET SINGLE SWIVEL MALE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
MD	48.3	56	32		

173 SINGLE SWIVEL COMBINATION



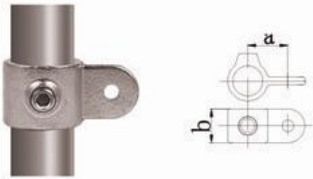
TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9				
B	33.7				
C	42.4				
D	48.3				
E	60.3				

173F FEMALE SECTION OF SWIVEL



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
FA	26.9	61	11		
FB	33.7	61	11		
FC	42.4	69	11		
FD	48.3	77	11		
FE	60.3	95	12		

173M SINGLE MALE SECTION OF SWIVEL



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
MA	26.9	40	38		
MB	33.7	43.5	38		
MC	42.4	44.5	48		
MD	48.3	44.5	53		
ME	60.3	50.5	62		

174M MALE PART OF SWIVEL TEE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
MD	48.3	121	68		

176 SIDE OUTLET TEE



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	40			
B	33.7	48			
C	42.4	60			
D	48.3	68			
E	60.3	84.5			
T	21.3	35			

179 LOCKING COLLAR



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	22.5			
B	33.7	25			
C	42.4	25			
D	48.3	32			

182 HOOK



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
A	26.9	32	25		
B	33.7	34	25		
C	42.4	39	25		
D	48.3	41	25		

185 EVES FITTING



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
D	48.3	39	90		

191 RIDGE FITTING



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
D	48.3	70	39.5		

198 DOUBLE SIDED FIXING BRACKET



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	φ
C	42.4	33	130	95	10
D	48.3	35	140	104	10

199 ADJUSTABLE FIXING BRACKET



TYPE	TUBE SIZE (mm)	DIMENSIONS(mm.)			
		a	b	c	d
B	33.7	30	48		
C	42.4	33	47.5		
D	48.3	35	52		