



G-FIRE GROOVED  
FITTINGS

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Grooved  
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General notes: It is the Designer's responsibility to select products suitable for the intended service and to ensure that pressure ratings and performance data is not exceeded. Always read and understand the installation constructions. Never remove any piping components nor correct or modify any piping deficiencies without first depressurizing and draining the system. Material should be verified to be compatible for the specific application.

## Fittings Specifications

Tech Data Sheet: TFP1815

**10**  
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For detailed Listing and Approval information see pages 101 - 108 or contact Tyco Fire Protection Products.

G-FIRE ductile iron and fabricated steel Grooved Fittings provide an economical and efficient method of changing direction, adding an outlet, and reducing or capping piping systems.

G-FIRE Grooved Fittings are rated at the pressure rating of the coupling in use.

### MATERIAL SPECIFICATIONS

#### Ductile Iron Fitting Specifications

- ASTM A 536 - Standard specification for ductile iron castings, Grade 65-45-12
- Tensile Strength, minimum 4,481 bar (65,000 psi)
- Yield Strength, minimum 3,102 bar (45,000 psi)
- Elongation in 50mm (2"), minimum 12%
- ASTM A 153 – Standard specification for hot-dip galvanising

#### Fabricated Steel Fitting Specifications

- Carbon Steel: According to ASTM A 53, Grade B
- Tensile Strength, minimum 4,136 bar (60,000 psi)
- Yield Strength, minimum 2,413 bar (35,000 psi)
- Sizes 32mm – 250mm (1 1/4" – 10") Schedule 40
- Sizes 300mm (12") STD (.375)

#### Coatings

- Red – Non-lead paint (RAL 3000) (standard)
- White – Non-lead paint (RAL 9010) (optional)
- Hot-Dipped, Zinc Galvanised (optional)

#### Threads

- BSP
- NPT

### Fitting Friction Resistance Chart

Pipe Size		Elbows 90°	Elbows 45°	Tea Branch	Tea Run
Nominal	O.D.	m	m	m	m
Inches	Inches	Feet	Feet	Feet	Feet
25	33.7	0.5	0.2	1.3	0.5
1	1.315	1.6	0.7	4.3	1.6
32	42.4	0.6	0.3	1.5	0.6
1 1/4	1.660	1.9	1.0	4.8	1.9
40	48.3	0.7	0.4	1.8	0.7
1 1/2	1.900	2.3	1.2	5.8	2.3
50	60.3	1.0	0.5	2.5	1.0
2	2.375	3.2	1.6	8.0	3.2
65	73.0	1.2	0.6	3.0	1.2
2 1/2	2.875	3.9	2.0	9.8	3.9
65	76.1	1.2	0.6	3.1	1.2
76,1mm	3.000	4.1	2.1	10.3	4.1
80	88.9	1.5	0.7	3.7	1.5
3	3.500	4.9	2.4	12.2	4.9
100	108.0	2.0	1.0	5.0	2.0
108.0mm	4.252	6.5	3.3	16.3	6.5
100	114.3	2.0	1.0	5.0	2.0
4	4.500	6.5	3.3	16.3	6.5
125	133.0	2.4	1.3	6.1	2.4
133.0mm	5.236	8.0	4.1	20.0	8.0
125	139.7	2.4	1.3	6.1	2.4
139,7mm	5.500	8.0	4.1	20.0	8.0
125	141.3	2.5	1.3	6.3	2.5
5	5.563	8.2	4.1	20.5	8.2
125	159.0	2.9	1.4	7.2	2.9
159.0mm	6.260	9.5	4.8	23.8	9.5
150	165.1	2.9	1.4	7.2	2.9
165,1mm	6.500	9.5	4.8	23.8	9.5
150	168.3	3.0	1.5	7.6	3.0
6	6.625	9.9	5.0	24.8	9.9
200	219.1	4.0	2.0	10.0	4.0
8	8.625	13.1	6.6	32.8	13.1
250	273.0	5.0	2.5	12.6	5.0
10	10.750	16.5	8.3	41.3	16.5
300	323.9	6.1	3.0	15.1	6.1
12	12.750	19.9	9.9	49.7	19.9

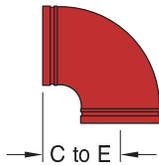
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For reducing tee branches, use value corresponding to the branch size. For example, for a 200mm x 200mm x 50mm (8" x 8" x 2") tee, use a branch value of 50mm (2") is 2,5m (8.0'). For sizes not listed, interpolate from the values shown. Expressed as Equivalent Straight Pipe.

## Figure 510 90° Cast Elbows

Tech Data Sheet: TFP1815

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Part Number	Pipe Size		C to E mm In.	Approx. Weight kg Lbs.
	Nominal mm In.	O.D. mm In.		
510A00034*	25	33.4	57.0	0.3
	1	1.315		
510A00042*	32	42.4	69.9	0.5
	1-1/4	1.660		
510A00048*	40	48.3	69.9	0.6
	1-1/2	1.900		
510A00060*	50	60.3	82.6	0.8
	2	2.375		
510A00073*	65	73.0	95.3	1.4
	2-1/2	2.875		
510A00076*	65	76.1	95.3	1.5
	76.1mm	3.000		
510A00089*	80	88.9	108.0	2.2
	3	3.500		
510A00114*	100	114.3	127.0	3.4
	4	4.500		
510A00139*	125	139.7	139.7	5.1
	139.7mm	5.500		
510A00141*	125	141.3	139.7	5.3
	5	5.563		
510A00165*	150	165.1	165.1	7.7
	165.1mm	6.500		
510A00168*	150	168.3	165.1	7.5
	6	6.625		
510A00219*	200	219.1	196.9	13.4
	8	8.625		
510A00273*	250	273.0	228.6	22.0
	10	10.750		
510A00324*	300	323.9	254.0	30.1
	12	12.750		

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish

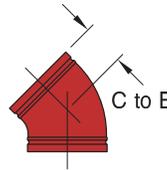
For information on other alternative sizes, contact Tyco Technical Services

See fitting specifications on page 31.

## Figure 501 45° Cast Elbows

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Part Number	Pipe Size		C to E mm In.	Approx. Weight kg Lbs.
	Nominal mm In.	O.D. mm In.		
501A00034*	25	33.4	44.5	0.3
	1	1.315		
501A00042*	32	42.4	44.5	0.4
	1-1/4	1.660		
501A00048*	40	48.3	44.5	0.4
	1-1/2	1.900		
501A00060*	50	60.3	50.8	0.6
	2	2.375		
501A00073*	65	73.0	57.2	1.0
	2-1/2	2.875		
501A00076*	65	76.1	57.2	1.0
	76.1mm	3.000		
501A00089*	80	88.9	63.5	1.6
	3	3.500		
501A00114*	100	114.3	76.2	2.5
	4	4.500		
501A00139*	125	139.7	82.6	3.5
	139.7mm	5.500		
501A00141*	125	141.3	82.6	3.7
	5	5.563		
501A00165*	150	165.1	88.9	5.0
	165.1mm	6.500		
501A00168*	150	168.3	88.9	5.1
	6	6.625		
501A00219*	200	219.1	108.0	8.6
	8	8.625		
501A00273*	250	273.0	120.7	12.7
	10	10.750		
501A00324*	300	323.9	133.4	22.0
	12	12.750		

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish

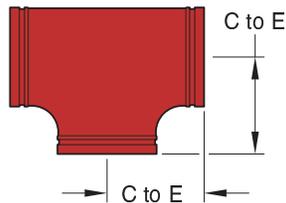
For information on other alternative sizes, contact Tyco Technical Services

See fitting specifications on page 31.

## Figure 519 Tees

Tech Data Sheet: TFP1815

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Part Number	Pipe Size		C to E mm In.	Approx Weight Kg Lbs.
	Nominal mm In.	O.D. mm In.		
519A00034*	25	33.4	57.0	0.5
	1	1.315		
519A00042*	32	42.4	69.9	0.8
	1-1/4	1.660		
519A00048*	40	48.3	69.9	0.9
	1-1/2	1.900		
519A00060*	50	60.3	82.6	1.3
	2	2.375		
519A00073*	65	73.0	95.3	2.0
	2-1/2	2.875		
519A00076*	65	76.1	95.3	2.0
	76.1mm	3.000		
519A00089*	80	88.9	108.0	2.7
	3	3.500		
519A00114*	100	114.3	127.0	4.3
	4	4.500		
519A00139*	125	139.7	139.7	6.3
	139.7mm	5.500		
519A00141*	125	141.3	139.7	6.3
	5	5.563		
519A00165*	150	165.1	165.1	8.9
	165.1mm	6.500		
519A00168*	150	168.3	165.1	9.3
	6	6.625		
519A00219*	200	219.1	196.9	14.1
	8	8.625		
519A00273*	250	273.0	228.6	25.9
	10	10.750		
519A00324*	300	323.9	254.0	49.9
	12	12.750		

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish

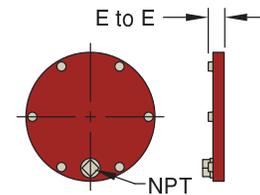
For information on other alternative sizes, contact Tyco Technical Services

See fitting specifications on page 31.

## Figure 260 End Caps

Tech Data Sheet: TFP1815

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Part Number	Pipe Size		E to E mm In.	Approx Weight Kg Lbs.
	Nominal mm In.	O.D. mm In.		
260M00034*	25	33.7	21.1	0.1
	1	1.315		
260M00042*	32	42.4	21.1	0.1
	1/4	1.660		
260M00048*	40	48.3	21.1	0.2
	1/2	1.900		
260M00060*	50	60.3	23.4	0.3
	2	2.375		
260M00073*	65	73.0	23.4	0.5
	2-1/2	2.875		
260M00076*	65	76.1	21.8	0.6
	76,1mm	3.000		
260M00089*	80	88.9	23.4	0.6
	3	3.500		
260M00114*	100	114.3	25.4	1.2
	4	4.500		
260M00139*	125	139.7	23.4	2.1
	139,7mm	5.500		
260M00141*	125	141.3	25.4	2.3
	5	5.563		
260M00159*	125	159.0	25.0	3.8
	159,0mm	6.260		
260M00165*	150	165.1	23.4	2.9
	165,1mm	6.500		
260M00168*	150	168.3	25.4	2.8
	6	6.625		
260M00219*	200	219.1	27.0	3.2
	8	8.625		
260M00273*	250	273.0	25.8	11.1
	10	10.750		
260M00324*	300	323.9	25.8	14.1
	12	12.750		

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish

For information on other alternative sizes, contact Tyco Technical Services

See fitting specifications on page 31.

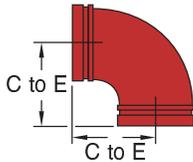
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## Figure 510S Short Pattern 90° Cast Elbows

Tech Data Sheet: TFP1815

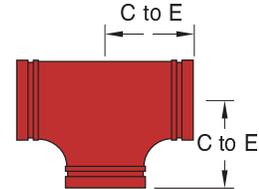


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## Figure 519S Short Pattern Tees

Tech Data Sheet: TFP1815



Part Number	Pipe Size		C to E mm In.	Approx. Weight kg Lbs.
	Nominal mm In.	O.D. mm In.		
510SA0060*	50	60.3	69.9	0.7
	2	2.375	2.75	1.5
510SA0073*	65	73.0	76.2	1.0
	2-1/2	2.875	3.00	2.1
510SA0076*	65	76.1	76.2	1.0
	76.1mm	3.000	3.00	2.3
510SA0089*	80	88.9	85.9	1.3
	3	3.500	3.38	3.0
510SA0114*	100	114.3	101.6	2.3
	4	4.500	4.00	5.0
510SA0139*	125	139.7	124.0	3.9
	139.7mm	5.500	4.88	8.6
510SA0165*	150	165.1	139.7	5.0
	165.1mm	6.500	5.50	11.0
510SA0168*	150	168.3	139.7	5.1
	6	6.625	5.50	11.2
510SA0219*	200	219.1	174.8	10.6
	8	8.625	6.88	23.4

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish  
For information on other alternative sizes, contact Tyco Technical Services  
See fitting specifications on page 31.

Part Number	Pipe Size		C to E mm In.	Approx Weight Kg Lbs.
	Nominal mm In.	O.D. mm In.		
519SA0060*	50	60.3	69.9	1.0
	2	2.375	2.75	2.1
519SA0073*	65	73.0	76.2	1.4
	2-1/2	2.875	3.00	3.1
519SA0076*	65	76.1	76.2	1.4
	76.1mm	3.000	3.00	3.1
519SA0089*	80	88.9	85.9	1.9
	3	3.500	3.38	4.1
519SA0114*	100	114.3	101.6	3.0
	4	4.500	4.00	6.7
519SA0139*	125	139.7	124.0	5.0
	139.7mm	5.500	4.88	11.0
519SA0165*	150	165.1	139.7	6.8
	165.1mm	6.500	5.50	14.9
519SA0168*	150	168.3	139.7	6.8
	6	6.625	5.50	15.0
519SA0219*	200	219.1	174.8	11.8
	8	8.625	6.88	26.1

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish, and 5 for white paint (RAL 9010) finish  
For information on other alternative sizes, contact Tyco Technical Services  
See fitting specifications on page 31.

## Figures 212 & 312 22½° Elbows

Tech Data Sheet: TFP1815



Figure 212  
22½° Cast Elbow

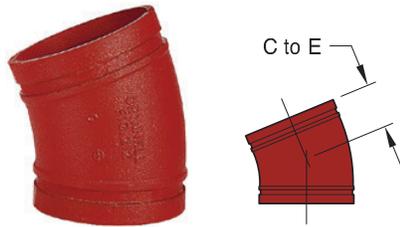


Figure 312  
22½° Fabricated Elbow



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Pipe Size		Figure 212 - Cast			Figure 312 - Fabricated		
Nominal mm Inches	O.D. mm Inches	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.
32 1¼	42.4 1.660	212A00042*	44.5 1.75	0.4 0.8	-	-	-
40 1½	48.3 1.900	212A00048*	44.5 1.75	0.5 1.0	-	-	-
50 2	60.3 2.375	212A00060*	47.8 1.88	0.6 1.3	-	-	-
65 2½	73.0 2.875	212A00073*	50.8 2.00	0.9 1.9	-	-	-
65 76,1mm	76.1 3.000	212M00076*	50.8 2.00	0.9 2.0	-	-	-
80 3	88.9 3.500	212A00089*	57.2 2.25	1.3 2.9	-	-	-
100 4	114.3 4.500	212A00114*	66.8 2.63	2.1 4.7	-	-	-
125 139,7mm	139.7 5.500	212M00139*	73.2 2.88	3.1 6.9	-	-	-
125 5	141.3 5.563	212A00141*	73.2 2.88	3.1 6.9	-	-	-
150 165,1mm	165.1 6.500	-	-	-	312F00165*	79.5 3.13	4.3 9.4
150 6	168.3 6.625	212A00168*	79.5 3.13	4.3 9.4	-	-	-
200 8	219.1 8.625	212A00219*	98.6 3.88	7.7 16.9	-	-	-
250 10	273.0 10.750	-	-	-	312F00273*	111.3 4.38	6.4 14.0
300 12	323.9 12.750	-	-	-	312F00324*	124.0 4.88	10.0 22.0

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish  
For information on other alternative sizes, contact Tyco Technical Services  
See fitting specifications on page 31.

## Figures 211 & 311 1 1/4° Elbows

Tech Data Sheet: TFP1815



Figure 211  
1 1/4° Cast Elbow



Figure 311  
1 1/4° Fabricated Elbow



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Pipe Size		Figure 211 - Cast			Figure 311 - Fabricated		
Nominal mm Inches	O.D. mm Inches	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.
32 1 1/4	42.4 1.660	211A00042*	35.1 1.38	0.3 0.7	-	-	-
40 1 1/2	48.3 1.900	211A00048*	35.1 1.38	0.4 0.8	-	-	-
50 2	60.3 2.375	211A00060*	35.1 1.38	0.5 1.1	-	-	-
65 2 1/2	73.0 2.875	211A00073*	38.1 1.50	0.7 1.6	-	-	-
65 76,1mm	76.1 3.000	211M00076*	38.1 1.50	0.7 1.7	-	-	-
80 3	88.9 3.500	211A00089*	38.1 1.50	1.0 2.2	-	-	-
100 4	114.3 4.500	211A00114*	44.5 1.75	1.5 3.4	-	-	-
125 139,7mm	139.7 5.500	211M00139*	50.8 2.00	2.3 5.1	-	-	-
125 5	141.3 5.563	211A00141*	50.8 2.00	2.4 5.2	-	-	-
150 165,1mm	165.1 6.500	211M00165*	50.8 2.00	2.9 6.4	-	-	-
150 6.625	168.3 6.625	211A00168*	50.8 2.00	2.9 6.5	-	-	-
200 8	219.1 8.625	211A00219*	50.8 2.00	4.2 9.2	-	-	-
250 10	273.0 10.750	-	-	-	311F00273*	54.1 2.13	4.1 9.1
300 12	323.9 12.750	-	-	-	311F00324*	57.2 2.25	7.6 16.7

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish  
For information on other alternative sizes, contact Tyco Technical Services  
See fitting specifications on page 31.

## Figures 221 & 321 Reducing Tees

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Tech Data Sheet: TFP1815

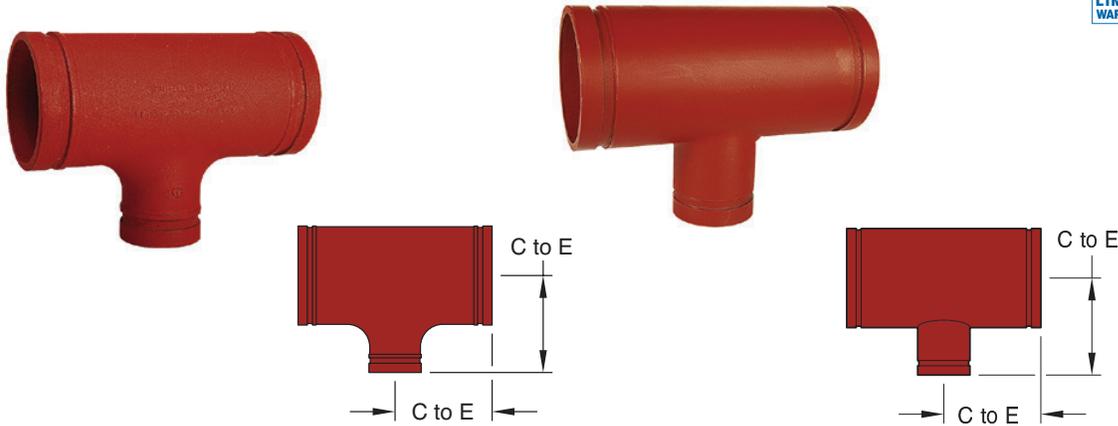


Figure 221 Reducing Tee Cast

Figure 321 Reducing Tee Fabricated

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Pipe Size		Figure 221 - Cast			Figure 321 - Fabricated		
Nominal mm Inches	O.D. mm Inches	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.
50 x 50 x 25 2 x 2 x 1	60.3 x 60.3 x 33.7 2.375 x 2.375 x 1.315	-	-	-	321F02010*	88.6 3.25	0.74 1.6
50 x 50 x 40 2 x 2 x 1½	60.3 x 60.3 x 48.3 2.375 x 2.375 x 1.900	221M02015*	82.6 3.25	1.2 2.7	-	-	-
65 x 65 x 50 2½ x 2½ x 2	73.0 x 73.0 x 60.3 2.875 x 2.875 x 2.375	221M02520*	95.3 3.75	1.9 4.2	-	-	-
65 x 65 x 40 76,1mm x 76,1mm x 1½	76.1 x 76.1 x 48.3 3.000 x 3.000 x 1.900	221M02615*	95.3 3.75	2.0 4.5	-	-	-
65 x 65 x 50 76,1mm x 76,1mm x 2	76.1 x 76.1 x 60.3 3.000 x 3.000 x 2.375	221M02620*	95.3 3.75	2.0 4.3	-	-	-
80 x 80 x 25 3 x 3 x 1	88.9 x 88.9 x 33.7 3.500 x 3.500 x 1.315	221M03010*	108.0 4.25	2.5 5.6	-	-	-
80 x 80 x 40 3 x 3 x 1½	88.9 x 88.9 x 48.3 3.500 x 3.500 x 1.900	221A03015*	108.0 4.25	2.7 5.9	-	-	-
80 x 80 x 50 3 x 3 x 2	88.9 x 88.9 x 60.3 3.500 x 3.500 x 2.375	221M03020*	108.0 4.25	2.7 6.0	-	-	-
80 x 80 x 65 3 x 3 x 2½	88.9 x 88.9 x 73.0 3.500 x 3.500 x 2.875	221M03025*	108.0 4.25	2.8 6.2	-	-	-
80 x 80 x 65 3 x 3 x 76,1mm	88.9 x 88.9 x 76.1 3.500 x 3.500 x 3.000	221M03026*	108.0 4.25	2.7 6.0	-	-	-
100 x 100 x 50 4 x 4 x 2	114.3 x 114.3 x 60.3 4.500 x 4.500 x 2.375	221M04220*	127.0 5.00	4.1 9.1	-	-	-
100 x 100 x 65 4 x 4 x 2½	114.3 x 114.3 x 73.0 4.500 x 4.500 x 2.875	221M04225*	127.0 5.00	4.3 9.5	-	-	-
100 x 100 x 65 4 x 4 x 76,1mm	114.3 x 114.3 x 76.1 4.500 x 4.500 x 3.000	221M04226*	127.0 5.00	4.3 9.5	-	-	-
100 x 100 x 80 4 x 4 x 3	114.3 x 114.3 x 88.9 4.500 x 4.500 x 3.500	221M04230*	127.0 5.00	4.4 9.7	-	-	-
125 x 125 x 80 139,7 x 139,7 x 76,1mm	139.7 x 139.7 x 76.1 5.500 x 5.500 x 3.000	-	-	-	321F05226*	139.7 5.50	6.6 14.5
125 x 125 x 80 139,7 x 139,7mm x 3	139.7 x 139.7 x 88.9 5.500 x 5.500 x 3.500	221M05230*	139.7 5.50	5.8 12.7	-	-	-
125 x 125 x 100 139,7 x 139,7mm x 4	139.7 x 139.7 x 114.3 5.500 x 5.500 x 4.500	221M05242*	139.7 5.50	6.1 13.4	-	-	-

## Figures 221 & 321 Reducing Tees

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Tech Data Sheet: TFP1815

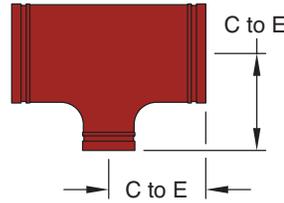


Figure 221 Reducing Tee  
Cast

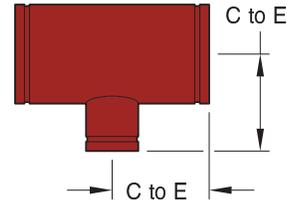


Figure 321 Reducing Tee  
Fabricated

Grooved  
Fittings

Pipe Size		Figure 221 - Cast			Figure 321 - Fabricated		
Nominal mm Inches	O.D. mm Inches	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.
125 x 125 x 65 5 x 5 x 2½	141.3 x 141.3 x 73.0 5.563 x 5.563 x 2.875	221A05325*	139.7 5.50	8.2 18.0	-	-	-
125 x 125 x 80 5 x 5 x 3	141.3 x 141.3 x 88.9 5.563 x 5.563 x 3.500	221A05330*	139.7 5.50	6.4 14.0	-	-	-
125 x 125 x 100 5 x 5 x 4	141.3 x 141.3 x 114.3 5.563 x 5.563 x 4.500	221A05342*	139.7 5.50	6.3 13.9	-	-	-
150 x 150 x 50 165,1 x 165,1mm x 2	165.1 x 165.1 x 60.3 6.500 x 6.500 x 2.375	-	-	-	321F06220*	165.1 6.50	11.9 26.2
150 x 150 x 65 165,1 x 165,1 x 76,1mm	165.1 x 165.1 x 76.1 6.500 x 6.500 x 3.000	-	-	-	321F06226*	165.1 6.50	12.1 26.7
150 x 150 x 80 165,1 x 165,mm x 3	165.1 x 165.1 x 88.9 6.500 x 6.500 x 3.500	221M06230*	165.1 6.50	8.2 18.0	-	-	-
150 x 150 x 100 165,1 x 165,mm x 4	165.1 x 165.1 x 114.3 6.500 x 6.500 x 4.500	221M06242*	165.1 6.50	8.9 19.5	-	-	-
150 x 150 x 50 6 x 6 x 2	168.3 x 168.3 x 60.3 6.625 x 6.625 x 2.375	221M06320*	165.1 6.50	8.8 19.4	-	-	-
150 x 150 x 65 6 x 6 x 2½	168.3 x 168.3 x 73.0 6.625 x 6.625 x 2.875	221M06325*	165.1 6.50	9.8 21.2	-	-	-
150 x 150 x 65 6 x 6 x 76,1mm	168.3 x 168.3 x 76.1 6.625 x 6.625 x 3.000	221M06326*	165.1 6.50	9.8 21.2	-	-	-
150 x 150 x 80 6 x 6 x 3	168.3 x 168.3 x 88.9 6.625 x 6.625 x 3.500	221M06330*	165.1 6.50	9.5 21.0	-	-	-
150 x 150 x 100 6 x 6 x 4	168.3 x 168.3 x 114.3 6.625 x 6.625 x 4.500	221M06342*	165.1 6.50	9.9 21.8	-	-	-
150 x 150 x 125 6 x 6 x 139,7mm	168.3 x 168.3 x 139.7 6.625 x 6.625 x 5.500	221M06352*	165.1 6.50	10.4 23.0	-	-	-
200 x 200 x 100 8 x 8 x 4	219.1 x 219.1 x 114.3 8.625 x 8.625 x 4.500	221A08042*	196.9 7.75	16.9 37.2	-	-	-
200 x 200 x 125 8 x 8 x 139,7mm	219.1 x 219.1 x 139.7 8.625 x 8.625 x 5.500	221M08052*	196.9 7.75	17.1 37.7	-	-	-
200 x 200 x 150 8 x 8 x 165,1mm	219.1 x 219.1 x 165.1 8.625 x 8.625 x 6.500	221M08062*	196.9 7.75	17.1 37.7	-	-	-
200 x 200 x 150 8 x 8 x 6	219.1 x 219.1 x 168.3 8.625 x 8.625 x 6.625	221A08063*	196.9 7.75	17.0 37.4	-	-	-
250 x 250 x 100 10 x 10 x 4	273.0 x 273.0 x 114.3 10.750 x 10.750 x 4.500	221M01142*	228.6 9.00	29.9 65.9	-	-	-

## Figures 221 & 321 Reducing Tees

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Tech Data Sheet: TFP1815

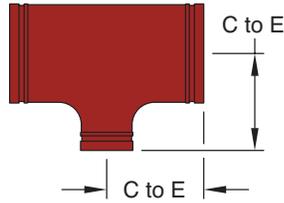


Figure 221 Reducing Tee  
Cast

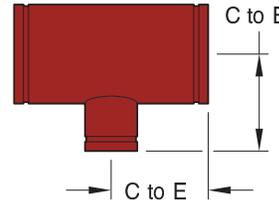


Figure 321 Reducing Tee  
Fabricated

Pipe Size		Figure 221 - Cast			Figure 321 - Fabricated		
Nominal mm Inches	O.D. mm Inches	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.	Part Number	C to E mm Inches	Approx. Weight Kg. Lbs.
<b>250 x 250 x 125</b> <i>10 x 10 x 139,7mm</i>	<b>273.0 x 273.0 x 139.7</b> <i>10.750 x 10.750 x 5.500</i>	-	-	-	<b>321F01152*</b>	<b>228.6</b> <i>9.00</i>	<b>26.2</b> <i>57.8</i>
<b>250 x 250 x 150</b> <i>10 x 10 x 165,1mm</i>	<b>273.0 x 273.0 x 165.1</b> <i>10.750 x 10.750 x 6.500</i>	-	-	-	<b>321F01162*</b>	<b>228.6</b> <i>9.00</i>	<b>26.2</b> <i>57.8</i>
<b>250 x 250 x 150</b> <i>10 x 10 x 6</i>	<b>273.0 x 273.0 x 168.3</b> <i>10.750 x 10.750 x 6.625</i>	<b>221M01163*</b>	<b>228.6</b> <i>9.00</i>	<b>30.8</b> <i>67.9</i>	-	<b>228.6</b> <i>9.00</i>	<b>27.2</b> <i>66.0</i>
<b>250 x 250 x 200</b> <i>10 x 10 x 8</i>	<b>273.0 x 273.0 x 219.1</b> <i>10.750 x 10.750 x 8.625</i>	<b>221M01180*</b>	<b>228.6</b> <i>9.00</i>	<b>31.8</b> <i>70.1</i>	-	<b>228.6</b> <i>9.00</i>	<b>28.1</b> <i>62.0</i>
<b>300 x 300 x 80</b> <i>12 x 12 x 3</i>	<b>323.9 x 323.9 x 88.9</b> <i>12.750 x 12.750 x 3.500</i>	-	-	-	<b>321F01330*</b>	<b>254.0</b> <i>10.00</i>	<b>40.0</b> <i>88.2</i>
<b>300 x 300 x 100</b> <i>12 x 12 x 4</i>	<b>323.9 x 323.9 x 114.3</b> <i>12.750 x 12.750 x 4.500</i>	-	-	-	<b>321F01342*</b>	<b>254.0</b> <i>10.00</i>	<b>40.0</b> <i>88.2</i>
<b>300 x 300 x 125</b> <i>12 x 12 x 139,7mm</i>	<b>323.9 x 323.9 x 139.7</b> <i>12.750 x 12.750 x 5.500</i>	-	-	-	<b>321F01352*</b>	<b>254.0</b> <i>10.00</i>	<b>40.0</b> <i>88.2</i>
<b>300 x 300 x 150</b> <i>12 x 12 x 165,1mm</i>	<b>323.9 x 323.9 x 165.1</b> <i>12.750 x 12.750 x 6.500</i>	-	-	-	<b>321F01362*</b>	<b>254.0</b> <i>10.00</i>	<b>36.7</b> <i>80.9</i>
<b>300 x 300 x 150</b> <i>12 x 12 x 6</i>	<b>323.9 x 323.9 x 168.3</b> <i>12.750 x 12.750 x 6.625</i>	-	-	-	<b>321F01363*</b>	<b>254.0</b> <i>10.00</i>	<b>36.7</b> <i>80.9</i>
<b>300 x 300 x 200</b> <i>12 x 12 x 8</i>	<b>323.9 x 323.9 x 219.1</b> <i>12.750 x 12.750 x 8.625</i>	-	-	-	<b>321F01380*</b>	<b>254.0</b> <i>10.00</i>	<b>34.6</b> <i>76.3</i>
<b>300 x 300 x 250</b> <i>12 x 12 x 10</i>	<b>323.9 x 323.9 x 273.0</b> <i>12.750 x 12.750 x 10.750</i>	-	-	-	<b>321F01311*</b>	<b>254.0</b> <i>10.00</i>	<b>35.2</b> <i>77.6</i>

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish  
For information on other alternative sizes, contact Tyco Technical Services  
See fitting specifications on page 31.

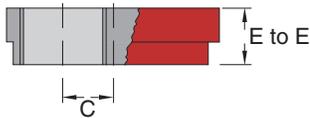
Grooved  
Fittings

## Figures 361, 362, 363, 364 & 365 End Caps with ISO R7 Threaded Outlets

(Page 1 of 2)



Grooved  
Fittings



Pipe Size		E to E mm In.	Fig. 363 – DN20 3/4"			
Nominal mm In.	O.D. mm In.		Part Number	C mm In.	Outlet size ISO R7 In.	Approx. Weight Kg. Lbs.
50 2	60.3 2.375	25 0.98	363M00060*	- -	DN20 3/4	0.2 0.4
65 76,1mm	76.1 3.000	25 0.98	363M00076*	9 0.35	DN20 3/4	0.4 0.9
80 3	88.9 3.500	25 0.98	363M00089*	15 0.59	DN20 3/4	0.5 1.1
100 4	114.3 4.500	25 0.98	363M00114*	28 1.10	DN20 3/4	1.3 2.9
125 139,7mm	139.7 5.500	25 0.98	363M00139*	40 1.57	DN20 3/4	1.8 4.0
125 5	141.3 5.563	25 0.98	363M00141*	41 1.61	DN20 3/4	1.8 4.0
150 165,1mm	165.1 6.500	25 0.98	363M00165*	53 2.09	DN20 3/4	2.7 6.0
150 6	168.3 6.625	25 0.98	363M00168*	54 2.13	DN20 3/4	2.7 6.0
200 8	219.1 8.625	31 1.22	363M00219*	79 3.11	DN20 3/4	5.0 11.0

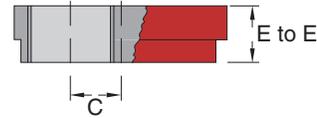
\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish  
See fitting specifications on page 31.

Pipe Size		E to E mm In.	Fig. 364 – DN25 1"				Fig. 365 – DN32 1 1/4"			
Nominal mm In.	O.D. mm In.		Part Number	C mm In.	Outlet size ISO R7 In.	Approx. Weight Kg. Lbs.	Part Number	C mm In.	Outlet size ISO R7 In.	Approx. Weight Kg. Lbs.
50 2	60.3 2.375	25 0.98	364M00060*	- -	DN25 1	0.2 0.4	365M00060*	- -	DN32 1 1/4	0.2 0.4
65 76,1mm	76.1 3.000	25 0.98	364M00076*	9 0.35	DN25 1	0.4 0.9	365M00076*	9 0.35	DN32 1 1/4	0.4 0.9
80 3	88.9 3.500	25 0.98	364M00089*	15 0.59	DN25 1	0.5 1.1	365M00089*	15 0.59	DN32 1 1/4	0.5 1.1
100 4	114.3 4.500	25 0.98	364M00114*	28 1.10	DN25 1	1.3 2.9	365M00114*	28 1.10	DN32 1 1/4	1.3 2.9
125 139,7mm	139.7 5.500	25 0.98	364M00139*	40 1.57	DN25 1	1.8 4.0	365M00139*	40 1.57	DN32 1 1/4	1.8 4.0
125 5	141.3 5.563	25 0.98	364M00141*	41 1.61	DN25 1	1.8 4.0	-	-	-	-
150 165,1mm	165.1 6.500	25 0.98	364M00165*	53 2.09	DN25 1	2.7 6.0	365M00165*	53 2.09	DN32 1 1/4	2.7 6.0
150 6	168.3 6.625	25 0.98	364M00168*	54 2.13	DN25 1	2.7 6.0	365M00168*	54 2.13	DN32 1 1/4	2.7 6.0
200 8	219.1 8.625	31 1.22	364M00219*	79 3.11	DN25 1	5.0 11.0	365M00219*	79 3.11	DN32 1 1/4	5.0 11.0

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish  
See fitting specifications on page 31.

## Figures 361, 362, 363, 364 & 365 End Caps with ISO R7 Threaded Outlets

(Page 2 of 2)



Grooved  
Fittings

Pipe Size			Fig. 361 – DN40 1 1/2"				Fig. 362 – DN50 2"			
Nominal mm In.	O.D. mm In.	E to E mm In.	Part Number	C mm In.	Outlet size ISO R7 In.	Approx. Weight Kg. Lbs.	Part Number	C mm In.	Outlet size ISO R7 In.	Approx. Weight Kg. Lbs.
50 2	60.3 2.375	25 0.98	361M00060*	- -	DN40 1 1/2	0.2 0.4	-	- -	- -	- -
65 76,1mm	76.1 3.000	25 0.98	361M00076*	9 0.35	DN40 1 1/2	0.4 0.9	362M00076*	4 0.16	DN50 2	0.3 0.7
80 3	88.9 3.500	25 0.98	361M00089*	15 0.59	DN40 1 1/2	0.5 1.1	362M00089*	9 0.35	DN50 2	1.3 2.9
100 4	114.3 4.500	25 0.98	361M00114*	28 1.10	DN40 1 1/2	1.3 2.9	362M00114*	22 0.87	DN50 2	1.3 2.9
125 139,7mm	139.7 5.500	25 0.98	361M00139*	40 1.57	DN40 1 1/2	1.8 4.0	362M00139*	34 1.34	DN50 2	1.8 4.0
125 5	141.3 5.563	25 0.98	361M00141*	41 1.61	DN40 1 1/2	1.8 4.0	362M00141*	34 1.34	DN50 2	1.8 4.0
150 165,1mm	165.1 6.500	25 0.98	361M00165*	53 2.09	DN40 1 1/2	2.7 6.0	362M00165*	47 1.85	DN50 2	2.7 6.0
150 6	168.3 6.625	25 0.98	361M00168*	54 2.13	DN40 1 1/2	2.7 6.0	362M00168*	48 1.89	DN50 2	2.7 6.0
200 8	219.1 8.625	31 1.22	361M00219*	79 3.11	DN40 1 1/2	5.0 11.0	362M00219*	73 2.87	DN50 2	5.0 11.0
250 10	273.0 10.750	31 1.22	361M00273*	90 3.54	DN40 1 1/2	7.2 15.9	362M00273*	90 3.54	DN50 2	7.2 15.9

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish  
See fitting specifications on page 31.

## Figures 250 & 350 Concentric Reducers

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Tech Data Sheet: TFP1815

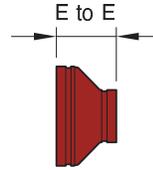


Figure 250  
Concentric Reducer Cast

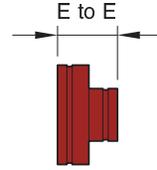


Figure 350  
Concentric Reducer Fabricated

Grooved  
Fittings

Pipe Size		Figure 250 - Cast			Figure 350 - Fabricated		
Nominal mm In.	O.D. mm In.	Part Number	E to E mm In.	Approx. Weight kg Lbs.	Part Number	E to E mm In.	Approx. Weight kg Lbs.
32 x 25 1-1/4 x 1	42.4 x 33.7 1.660 x 1.315	250M01210*	63.5 2.50	0.3 0.7	-	-	-
40 x 25 1-1/2 x 1	48.3 x 33.7 1.900 x 1.315	250M01510*	63.5 2.50	0.3 0.7	-	-	-
40 x 32 1-1/2 x 1-1/4	48.3 x 42.4 1.900 x 1.660	250A01512*	63.5 2.50	0.3 0.8	-	-	-
50 x 25 2 x 1	60.3 x 33.7 2.375 x 1.315	250M02010*	63.5 2.50	0.4 0.9	-	-	-
50 x 32 2 x 1-1/4	60.3 x 42.4 2.375 x 1.660	250M02012*	63.5 2.50	0.4 0.9	-	-	-
50 x 40 2 x 1-1/2	60.3 x 48.3 2.375 x 1.900	250M02015*	63.5 2.50	0.5 1.0	-	-	-
65 x 25 2-1/2 x 1	73.0 x 33.7 2.875 x 1.315	-	-	-	350F02610*	63.5 2.50	0.5 1.2
65 x 50 2-1/2 x 2	73.0 x 60.3 2.875 x 2.375	250M02520*	63.5 2.50	0.6 1.3	-	-	-
65 x 32 76.1mm x 1-1/4	76.1 x 42.4 3.000 x 1.660	250M02612*	63.5 2.50	0.6 1.4	-	-	-
65 x 40 76.1mm x 1-1/2	76.1 x 48.3 3.000 x 1.900	250M02615*	63.5 2.50	0.6 1.4	-	-	-
65 x 50 76.1mm x 2	76.1 x 60.3 3.000 x 2.375	250M02620*	63.5 2.50	0.7 1.5	-	-	-
80 x 40 3 x 1-1/2	88.9 x 48.3 3.500 x 1.900	250A03015*	63.5 2.50	0.8 1.8	-	-	-
80 x 50 3 x 2	88.9 x 60.3 3.500 x 2.375	250M03020*	63.5 2.50	0.8 1.7	-	-	-
80 x 65 3 x 2-1/2	88.9 x 73.0 3.500 x 2.875	250M03025*	63.5 2.50	0.8 1.7	-	-	-
80 x 65 3 x 76.1mm	88.9 x 76.1 3.500 x 3.000	250M03026*	63.5 2.50	0.9 2.0	-	-	-
100 x 50 4 x 2	114.3 x 60.3 4.500 x 2.375	250M04220*	76.2 3.00	1.1 2.4	-	-	-
100 x 65 4 x 2-1/2	114.3 x 73.0 4.500 x 2.875	250M04225*	76.2 3.00	1.2 2.7	-	-	-
100 x 65 4 x 76.1mm	114.3 x 76.1 4.500 x 3.000	250M04226*	76.2 3.00	1.5 3.2	-	-	-
100 x 80 4 x 3	114.3 x 88.9 4.500 x 3.500	250M04230*	76.2 3.00	1.3 2.8	-	-	-
100 x 100 4 x 108.0mm	114.3 x 108.0 4.500 x 4.252	-	-	-	350F04241*	140.0 5.51	1.5 3.3
125 x 80 139.7mm x 3	139.7 x 88.9 5.500 x 3.500	250M05230*	88.9 3.50	1.9 4.2	-	-	-
125 x 100 139.7mm x 4	139.7 x 114.3 5.500 x 4.500	250M05242*	88.9 3.50	2.0 4.4	-	-	-
125 x 100 5 x 4	141.3 x 114.3 5.563 x 4.500	250M05342*	88.9 3.50	2.0 4.4	-	-	-
150 x 80 165.1mm x 3	165.1 x 88.9 6.500 x 3.500	250M06230*	101.6 4.00	2.5 5.5	-	-	-
150 x 100 165.1mm x 4	165.1 x 114.3 6.500 x 4.500	250M06242*	101.6 4.00	2.7 6.0	-	-	-

## Figures 250 & 350 Concentric Reducers

(Page 2 of 2)

Tech Data Sheet: TFP1815

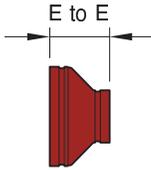


Figure 250  
Cast Concentric  
Reducer

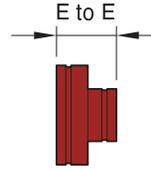


Figure 350  
Fabricated Concentric  
Reducer

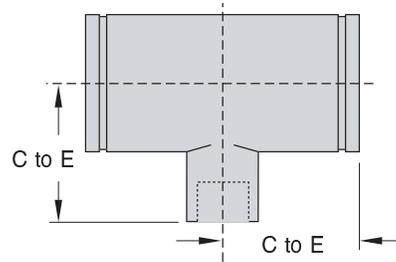
Pipe Size		Figure 250 - Cast			Figure 350 - Fabricated		
Nominal mm <i>In.</i>	O.D. mm <i>In.</i>	Part Number	E to E mm <i>In.</i>	Approx. Weight kg <i>Lbs.</i>	Part Number	E to E mm <i>In.</i>	Approx. Weight kg <i>Lbs.</i>
150 x 125 <i>165.1 x 139.7mm</i>	165.1 x 139.7 <i>6.500 x 5.500</i>	250M06252*	101.6 <i>4.00</i>	2.5 <i>5.6</i>	-	-	-
150 x 65 <i>6 x 76.1mm</i>	168.3 x 76.1 <i>6.625 x 3.000</i>	250M06326*	101.6 <i>4.00</i>	2.7 <i>6.1</i>	-	-	-
150 x 80 <i>6 x 3</i>	168.3 x 88.9 <i>6.625 x 3.500</i>	250A06330*	101.6 <i>4.00</i>	2.6 <i>5.8</i>	-	-	-
150 x 100 <i>6 x 4</i>	168.3 x 114.3 <i>6.625 x 4.500</i>	250M06342*	101.6 <i>4.00</i>	2.7 <i>6.0</i>	-	-	-
150 x 125 <i>6 x 139.7mm</i>	168.3 x 139.7 <i>6.625 x 5.500</i>	250M06352*	101.6 <i>4.00</i>	2.3 <i>6.3</i>	-	-	-
150 x 125 <i>6 x 5</i>	168.3 x 141.3 <i>6.625 x 5.563</i>	250M06353*	101.6 <i>4.00</i>	2.8 <i>6.2</i>	-	-	-
150 x 125 <i>6 x 159.0mm</i>	168.3 x 159.0 <i>6.625 x 6.260</i>	-	-	-	350F06361*	140.0 <i>5.00</i>	3.2 <i>7.1</i>
150 x 150 <i>6 x 165.1mm</i>	168.3 x 165.1 <i>6.625 x 6.500</i>	-	-	-	350F06362*	127.0 <i>5.00</i>	5.5 <i>12.1</i>
200 x 100 <i>8 x 4</i>	219.1 x 114.3 <i>8.625 x 4.500</i>	250A08042*	127.0 <i>5.00</i>	4.9 <i>10.7</i>	-	-	-
200 x 125 <i>8 x 139.7mm</i>	219.1 x 139.7 <i>8.625 x 5.500</i>	250M08052*	127.0 <i>5.00</i>	4.5 <i>10.0</i>	-	-	-
200 x 125 <i>8 x 5</i>	219.1 x 141.3 <i>8.625 x 5.563</i>	-	127.0 <i>5.00</i>	4.9 <i>10.8</i>	350F08053*	-	-
200 x 150 <i>8 x 165.1mm</i>	219.1 x 165.1 <i>8.625 x 6.500</i>	250M08062*	127.0 <i>5.00</i>	5.0 <i>11.0</i>	-	-	-
200 x 150 <i>8 x 6</i>	219.1 x 168.3 <i>8.625 x 6.625</i>	250A08063*	127.0 <i>5.00</i>	5.1 <i>11.3</i>	-	-	-
250 x 100 <i>10 x 4</i>	273.0 x 114.3 <i>10.750 x 4.500</i>	-	-	-	350F01142*	152.4 <i>6.00</i>	9.3 <i>20.5</i>
250 x 150 <i>10 x 165.1mm</i>	273.0 x 165.1 <i>10.750 x 6.500</i>	250M01162*	152.4 <i>6.00</i>	8.0 <i>17.8</i>	-	-	-
250 x 150 <i>10 x 6</i>	273.0 x 168.3 <i>10.750 x 6.625</i>	250A01163*	152.4 <i>6.00</i>	7.4 <i>16.3</i>	-	-	-
250 x 200 <i>10 x 8</i>	273.0 x 219.1 <i>10.750 x 8.625</i>	250A01180*	152.4 <i>6.00</i>	8.3 <i>18.3</i>	-	-	-
300 x 100 <i>12 x 4</i>	323.9 x 114.3 <i>12.750 x 4.500</i>	250A01342*	177.8 <i>7.00</i>	10.3 <i>22.7</i>	-	-	-
300 x 150 <i>12 x 165.1mm</i>	323.9 x 165.1 <i>12.750 x 6.500</i>	-	-	-	350F01362*	303.0 <i>7.00</i>	11.3 <i>24.9</i>
300 x 150 <i>12 x 6</i>	323.9 x 168.3 <i>12.750 x 6.625</i>	250A01363*	177.8 <i>7.00</i>	11.0 <i>24.2</i>	-	-	-
300 x 200 <i>12 x 8</i>	323.9 x 219.1 <i>12.750 x 8.625</i>	250A01380*	177.8 <i>7.00</i>	11.7 <i>25.8</i>	-	-	-
300 x 250 <i>12 x 10</i>	323.9 x 273.0 <i>12.750 x 10.750</i>	250A01311*	177.8 <i>7.00</i>	12.8 <i>28.2</i>	-	-	-

\* = 1 for red paint (RAL 3000) finish, 2 for hot dipped galvanised finish  
 For information on other alternative sizes, contact Tyco Technical Services  
 See fitting specifications on page 31.

Grooved  
Fittings

## Figure 322 Reducing Tees (Groove x Groove x Female BSP Thread)

**10**  
YEAR  
LIMITED  
WARRANTY



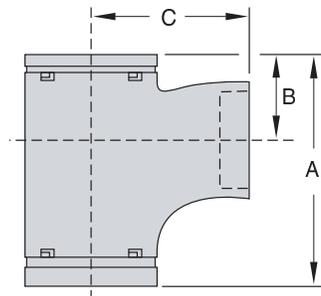
Grooved  
Fittings

Part Number	Pipe Size		C to GE & C to TE mm Inches	Approx. Weight Kg. Lbs.
	Nominal mm Inches	O.D. mm Inches		
322F020202	50 x 50 x 50	60.3 x 60.3 x 60.3 ISO R7	82.6	1.2
	2 x 2 x 2	2.375 x 2.375 x 2.375	3.25	2.6
322F026202	65 x 65 x 50	76.1 x 76.1 x 60.3 ISO R7	95.2	1.8
	76.1 x 76.1mm x 2	3.000 x 3.000 x 2.375	3.75	4.0
322F026252	65 x 65 x 50	76.1 x 76.1 x 76.1 ISO R7	95.2	1.9
	76.1 x 76.1 x 76.1mm	3.000 x 3.000 x 3.000	3.75	4.2
322F030202	80 x 80 x 50	88.9 x 88.9 x 60.3 ISO R7	108.0	2.2
	3 x 3 x 2	3.500 x 3.500 x 2.375	4.25	4.9
322F030252	80 x 80 x 65	88.9 x 88.9 x 73.0 ISO R7	108.0	2.3
	3 x 3 x 2 1/2	3.500 x 3.500 x 2.875	4.25	5.1
322F042202	100 x 100 x 50	114.3 x 114.3 x 60.3 ISO R7	127.0	2.6
	4 x 4 x 2	4.500 x 4.500 x 2.375	5.00	5.7
322F042262	100 x 100 x 65	114.3 x 114.3 x 76.1 ISO R7	127.0	2.8
	4 x 4 x 76.1mm	4.500 x 4.500 x 3.00	5.00	6.2

Only available in hot dipped galvanised finish  
For information on other alternative sizes, contact Tyco Technical Services  
See fitting specifications on page 31.

## Figure 222 Hydrant Tee

**10**  
YEAR  
LIMITED  
WARRANTY



Part Number	Pipe Size		Hydrant Outlet ISO	Max. Working Pressure psi bar	A mm In.	B mm In.	C mm In.	Approx. Weight Kg. Lbs.
	Nominal Size mm In.	Pipe OD mm In.						
22V42262	100	114.3	R7	20.7	190	70	133	4.6
	4	4.500	DN65	300	7.48	2.76	5.24	10.1

Available in hot dipped galvanizing only.  
See fitting specifications on page 31.