

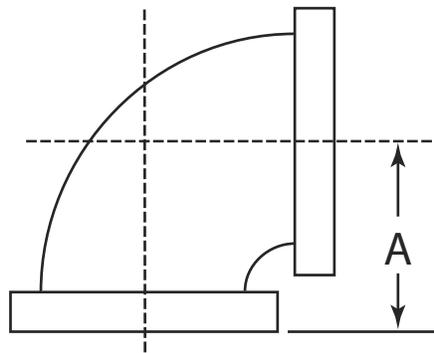
# FLANGED 90° ELBOW

## MODEL 5-BBP



### FEATURES:

- Drilled and faced to ASME C110/A21.10/ASME B16.1
- Available black and galvanized (ASTM A-153)
- Material: Ductile Iron to ASTM A-536 for sizes 2" - 6" - rated to 250 PSI  
Cast Iron ASTM A 126 A or B for sizes 8", 10" and 12" - rated to 175 PSI
- Ductile Iron to CL150/CI to CL 125

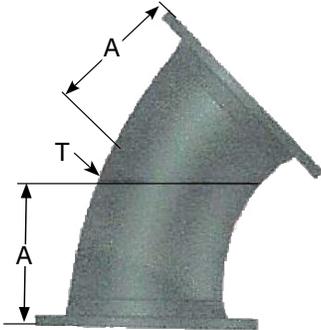


SIZE (In.)	A	FLANGE DIA.	THICKNESS		UNIT WEIGHT
			MIN. FLANGE	WALL	
NPS	In.	In.	In.	In.	Lbs.
2	4-1/2	6	5/8	15/16	14.00
2-1/2	5	7	11/16	15/16	19.00
3	5-1/2	7-1/2	3/4	3/8	25.00
4	6-1/2	9	15/16	1/2	45.00
5	7-1/2	10	15/16	1/2	52.00
6	8	11	1	9/16	65.00
8	9	13-1/2	1-1/8	5/8	105.00
10	11	16	1-3/16	3/4	165.00
12	12	19	1-1/4	3/16	235.00

PROJECT	APPROVAL STAMP
PROJECT:	<input type="checkbox"/> APPROVED
ADDRESS:	<input type="checkbox"/> APPROVED AS NOTED
ENGINEER:	<input type="checkbox"/> NOT APPROVED
SUBMITTAL DATA:	REMARKS:
NOTES 1:	
NOTES 2:	

# FLANGED 45° ELBOW

MODEL 3-BBP



**FEATURES:**

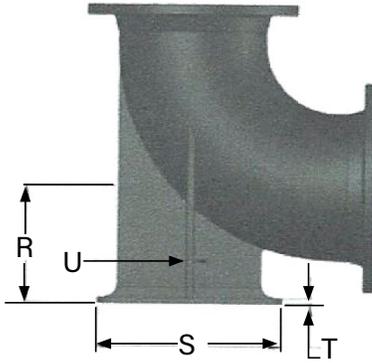
- Drilled and faced to ASME C110/A21.10/ASME B16.1
- Available black and galvanized (ASTM A-153)
- Material: Ductile Iron to ASTM-A-536 for sizes 2"-6" - rated to 250 PSI  
Cast Iron ASTM A 126 A or B for sizes 8", 10" & 12" - rated to 175 PSI
- Ductile Iron to CL150/CI to CL 125

45° ELBOW			
Size (In.)	A	Wgt.	T
2	2.5	12	.31
2-1/2	3.0	17	.31
3	3.0	20	.38
4	4.0	40	.50
5	4.5	45	.50
6	5.0	55	.56
8	5.5	90	.62
10	6.5	130	.75
12	7.5	195	.81

PROJECT	APPROVAL STAMP
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SUBMITTAL DATA:	REMARKS:
NOTES 1:	
NOTES 2:	

# FLANGED 90° BASE ELBOW

MODEL 6-BBP



**FEATURES:**

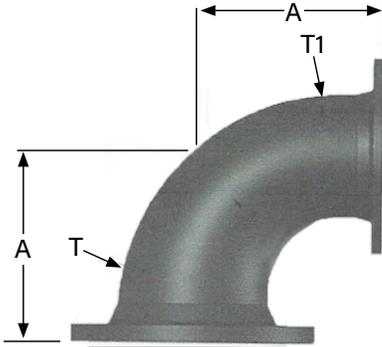
- Drilled and faced to ASME C110/A21.10/ASME B16.1
- Available black and galvanized (ASTM A-153)
- Material: Ductile Iron to ASTM A-536 for sizes 3", 4", 6" - rated to 250 PSI  
Cast Iron ASTM A 126 A or B for sizes 8", 10", & 12" - rated to 175 PSI
- Ductile Iron to CL150/CI to CL 125

Size (In.)	R	S (Dia.)	T	U	Weight
3	4.0	5.0	.28	.50	36
4	5.5	6.0	.62	.50	55
6	7.0	7.0	.69	.62	85
8	8.38	9.0	.94	.88	145
10	9.75	9.0	.94	.88	210
12	11.25	11.0	1.0	1.0	300

PROJECT	APPROVAL STAMP
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ENGINEER:	<input type="checkbox"/> NOT APPROVED
SUBMITTAL DATA:	REMARKS:
NOTES 1:	
NOTES 2:	

# FLANGED 90° REDUCING ELBOW

## MODEL 8-BBP



### FEATURES:

- Drilled and faced to ASME C110/A21.10/ASME B16.1
- Available black and galvanized (ASTM A-153)
- Material: Ductile Iron to ASTM A-536 - rated to 250 PSI  
Cast Iron ASTM A 126 A or B as indicated - rated to 175 PSI
- Ductile Iron to CL150/CI to CL 125

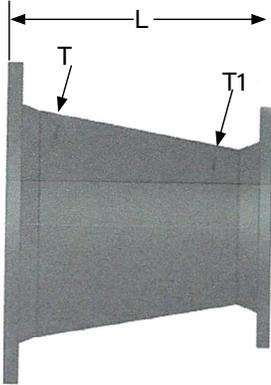
Size (in.)	A	R	T	T1	Weight
3 X 2	5.5	4.0	.38	.31	19
3 X 2-1/2	5.5	4.0	.38	.31	22
4 X 2	6.5	4.0	.50	.31	29
4 X 2-1/2	6.5	4.0	.50	.31	31
4 X 3	6.5	4.5	.50	.38	33
5 X 3	7.5	5.0	.50	.50	44
5 X 4	7.5	5.0	.56	.50	48
6 X 3	8.0	6.0	.56	.38	45
6 X 4	8.0	6.0	.56	.50	55
6 X 5	8.0	6.0	.56	.50	65
8 X 4	9.0	7.0	.62	.50	75
8 X 5	9.0	7.0	.62	.56	80
8 X 6	9.0	7.0	.62	.56	85
10 X 4	11.0	9.0	.75	.50	110
10 X 6	11.0	9.0	.75	.56	135
10 X 8	11.0	9.0	.75	.62	150 (CI)
12 X 4	12.0	10.0	.81	.50	140
12 X 6	12.0	10.0	.81	.56	160
12 X 8	12.0	10.0	.81	.62	180 (CI)
12 X 10	12.0	10.0	.81	.75	210 (CI)

PROJECT	APPROVAL STAMP
PROJECT:	<input type="checkbox"/> APPROVED
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ENGINEER:	<input type="checkbox"/> NOT APPROVED
SUBMITTAL DATA:	REMARKS:
NOTES 1:	
NOTES 2:	

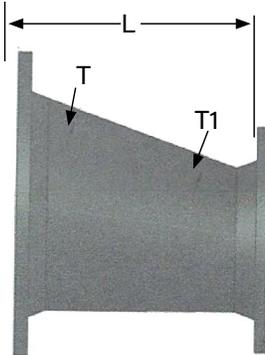
**FLANGED CONCENTRIC REDUCER**  
*MODEL 9-BBP*  
**FLANGED ECCENTRIC REDUCER**  
*MODEL 10-BBP*



**CONCENTRIC  
MODEL 9-BBP**



**ECCENTRIC  
MODEL 10-BBP**



**FEATURES:**

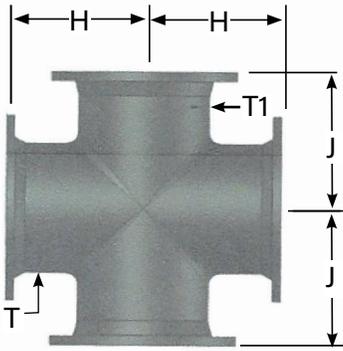
- Drilled and faced to ASME C110/A21.10/ASME B16.1
- Available black and galvanized (ASTM A-153)
- Material: Ductile Iron to ASTM A-536 - rated to 250 PSI  
Cast Iron ASTM A 126 A or B as indicated - rated to 175 PSI
- Ductile Iron to CL150/CI to CL 125

Size	L	T	T1	Weight
2 x 1	5.5	.31	.30	12
2-1/2 x 2	5.5	.31	.30	14
3 x -1/2	6	.38	.30	15
3 x 2	6	.38	.30	16
3 x 2-1/2	6	.38	.31	20
4 x 2	7	.50	.31	25
4 x 2-1/2	7	.50	.31	28
4 x 3	7	.50	.38	30
5 x 2-1/2	8	.50	.31	31
5 x 3	8	.50	.38	32
5 x 4	8	.50	.50	39
6 x 2	9	.56	.31	35
6 x 2-1/2	9	.56	.31	38
6 x 3	9	.56	.38	40
6 x 4	9	.56	.50	45
6 x 5	9	.56	.50	50
8 x 3	11	.62	.38	57
8 x 4	11	.62	.50	65
8 x 5	11	.62	.50	70
8 x 6	11	.62	.56	75
10 x 4	12	.75	.50	85
10 x 5	12	.75	.50	88
10 x 6	12	.75	.56	90
10 x 8	12	.75	.62	110 (CI)
12 x 4	14	.81	.50	120
12 x 6	14	.81	.56	130
12 x 8	14	.81	.62	145 (CI)
12 x 10	14	.81	.75	170 (CI)

PROJECT	APPROVAL STAMP
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ENGINEER:	<input type="checkbox"/> NOT APPROVED
SUBMITTAL DATA:	REMARKS:
NOTES 1:	
NOTES 2:	

# FLANGED CROSS

## MODEL 14-BBP



### FEATURES:

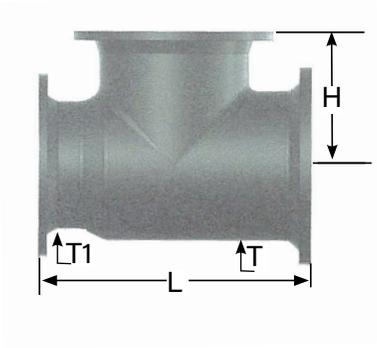
- Drilled and faced to ASME C110/A21.10/ASME B16.1
- Available black and galvanized (ASTM A-153)
- Material: Ductile Iron to ASTM A-536 - rated to 250 PSI  
Cast Iron ASTM A 126 A or B as indicated - rated to 175 PSI
- Ductile Iron to CL150/CI to CL 125

Size (In.)	H	J	T	T1	Weight
2	4.5	4.5	.31	.31	30
2-1/2	5.0	5.0	.31	.31	39
3	5.5	5.5	.38	.31	50
4	6.5	6.5	.50	.50	80
5	7.5	7.5	.50	.50	105
6 x 4	8.0	8.0	.56	.50	110
6	8.0	8.0	.56	.56	120
8 x 4	9.0	9.0	.62	.50	155
8 x 6	9.0	9.0	.62	.56	165
8	9.0	9.0	.62	.62	195 (CI)
10 x 6	11.0	11.0	.75	.56	240
10 x 8	11.0	11.0	.75	.62	265 (CI)
10	11.0	11.0	.75	.75	330 (CI)
12 x 6	12.0	12.0	.81	.56	320
12 x 8	12.0	12.0	.81	.62	345 (CI)
12 x 10	12.0	12.0	.81	.75	415 (CI)
12	12.0	12.0	.81	.81	460 (CI)

PROJECT	APPROVAL STAMP
PROJECT:	<input type="checkbox"/> APPROVED
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ENGINEER:	<input type="checkbox"/> NOT APPROVED
SUBMITTAL DATA:	REMARKS:
NOTES 1:	
NOTES 2:	

# FLANGED REDUCING TEE

## MODEL 11-BBP



### FEATURES:

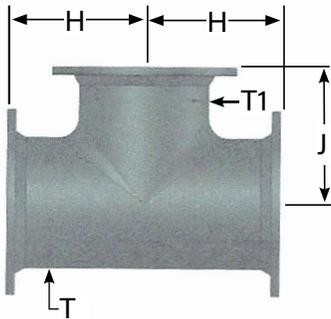
- Drilled and faced to ASME C110/A21.10/ASME B16.1
- Available black and galvanized (ASTM A-153)
- Material: Ductile Iron to ASTM A-536 - rated to 250 PSI  
Cast Iron ASTM A 126 A or B as indicated - rated to 175 PSI
- Ductile Iron to CL150/CI to CL 125

SIZE (In.)	H	L	T	T1	WEIGHT (Lbs.)
4 X 3 X 4	65	13.0	.50	.38	59
6 X 4 X 4	8.0	16.0	.56	.50	90
6 X 4 X 6	8.0	16.0	.56	.50	95
8 X 4 X 8	9.0	18.0	.62	.50	146
8 X 6 X 4	9.0	18.0	.62	.56	125
8 X 6 X 6	9.0	18.0	.62	.56	145
8 X 6 X 8	9.0	18.0	.62	.56	160
10 X 8 X 8	11.0	22.0	.75	.62	232 (CI)
10 X 8 X 10	11.0	22.0	.75	.62	262 (CI)
12 X 8 X 8	12.0	24.0	.81	.62	298 (CI)
12 X 10 X 10	12.0	24.0	.81	.75	340 (CI)
12 X 10 X 12	12.0	24.0	.81	.75	365 (CI)

PROJECT	APPROVAL STAMP
PROJECT:	<input type="checkbox"/> APPROVED
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ENGINEER:	<input type="checkbox"/> NOT APPROVED
SUBMITTAL DATA:	REMARKS:
NOTES 1:	
NOTES 2:	

# FLANGED TEE

## MODEL 13-BBP



### FEATURES:

- Drilled and Faced to ASME C110/A21.10/ASME B16.1
- Available Black and Galvanized (ASTM A-153)
- Material: Ductile Iron to ASTM A-536 - rated to 250 PSI  
Cast Iron ASTM A 126 A or B as indicated - rated to 175 PSI
- Ductile Iron to CL150/CI to CL 125

Size (In.)	H	J	T	T1	Weight
2	4.5	4.5	.31	.31	20
2-1/2	5.0	5.0	.31	.31	30
3 x 2	5.5	5.5	.38	.31	35
3 x 2-1/2	5.5	5.5	.38	.31	38
3	5.5	5.5	.38	.31	40
4 x 2	6.5	6.5	.50	.31	50
4 x 2-1/2	6.5	6.5	.50	.31	55
4 x 3	6.5	6.5	.50	.38	60
4	6.5	6.5	.50	.50	65
5	7.5	7.5	.50	.50	85
6 x 2	8.0	8.0	.56	.31	86
6 x 3	8.0	8.0	.56	.38	85
6 x 4	8.0	8.0	.56	.50	90
6 x 5	8.0	8.0	.56	.53	92
6	8.0	8.0	.56	.56	952
8 x 3	9.0	9.0	.62	.38	140
8 x 4	9.0	9.0	.62	.50	140
8 x 6	9.0	9.0	.62	.56	145
8	9.0	9.0	.62	.62	155 (CI)
10 x 3	11.0	11.0	.75	.38	200
10 x 4	11.0	11.0	.75	.50	205
10 x 6	11.0	11.0	.75	.56	215
10 x 8	11.0	11.0	.75	.62	225 (CI)
10	11.0	11.0	.75	.75	270 (CI)
12 x 4	12.0	12.0	.81	.50	290
12 x 6	12.0	12.0	.81	.56	295
12 x 8	12.0	12.0	.81	.62	310 (CI)
12 x 10	12.0	12.0	.81	.75	360 (CI)
12	12.0	12.0	.81	.81	385 (CI)

PROJECT	APPROVAL STAMP
PROJECT:	<input type="checkbox"/> APPROVED
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ENGINEER:	<input type="checkbox"/> NOT APPROVED
SUBMITTAL DATA:	REMARKS:
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NOTES 2:	