

**K-01**



Elbow 90 Equal Banded F/F

**K-01A**



Elbow 90 Banded Reducing

**K-01B**



Elbow 90 Equal Banded  
Socket Weld

**K-01C**



Elbow With Strip

**K-01D**



Elbow 90 Non-Banded F/F

**K-02**



Tee Banded

**K-02A**



Tee Banded Reducing

**K-02B**



Tee Banded Socket Weld

**K-02C**



Y-Tee Banded

**K-02D**



Tee Non-Banded

**K-03**



Cross Banded

**K-04**



Street Elbow 90 M/F

**K-04A**



Street Elbow 45 M/F

**K-04B**



Street Elbow Non-Banded M/F

**K-05**



Elbow 45 Equal Banded F/F

**K-05A**



Elbow 45 Banded Socket Weld

**K-06 / K-06A**



Union Conical Joint F/F  
Union Flat Seat With PTFE  
Gasket F/F

**K-06B / K-06C**



Union Conical Joint M/F  
Union Flat Seat With PTFE  
Gasket M/F

**K-06D / K-06E**



Union Conical Joint BW/BW  
Union Flat Seat With PTFE  
Gasket BW/BW

**K-06F / K-06G**



Union Conical Joint BW/F  
Union Flat Seat With PTFE  
Gasket BW/F

**K-06H / K-06I**




Union Conical Joint BW/M  
Union Flat Seat With PTFE  
Gasket BW/M

**K-06J / K-06K**



Union Conical Joint M/M  
Union Flat Seat With PTFE  
Gasket M/M

**K-06L / K-06O**



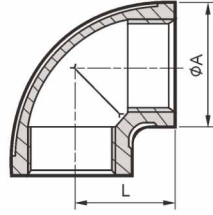
Union Flat Seat  
Inside/Inside Thread  
Union Conical  
Inside/Inside Thread

**K-06M / K-06P**



Union Flat Seat  
Inside/Outside Thread  
Union Conical  
Inside/Outside Thread

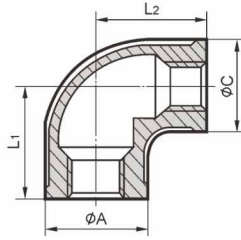
**K-01 Elbow 90 Equal Banded F/F**



Unit: mm

SIZE	$\phi A$	L
1/8"	15.5	17.5
1/4"	19.0	19.5
3/8"	22.5	23.5
1/2"	27.5	27.5
3/4"	33.0	32.5
1"	40.5	38.5
1-1/4"	50.0	45.5
1-1/2"	56.5	48.5
2"	70.0	57.5
2-1/2"	86.5	69.5
3"	100.0	78.5
4"	126.0	96.5

**K-01A Elbow 90 Banded Reducing**

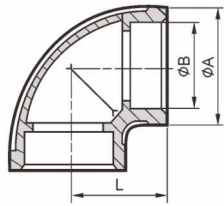


Unit: mm

SIZE	$\phi A$	$\phi C$	L <sub>1</sub>	L <sub>2</sub>
1/4"x1/8"	19.0	15.5	18.5	18.5
3/8"x1/8"	22.5	15.5	19.5	20.5
3/8"x1/4"	22.5	19.0	20.5	22.5
1/2"x1/8"	27.5	15.5	22.5	23.5
1/2"x1/4"	27.5	19.0	24.5	24.5
1/2"x3/8"	27.5	22.5	26.5	25.5
3/4"x1/4"	33.0	19.0	27.5	26.5
3/4"x3/8"	33.0	22.5	28.5	28.5
3/4"x1/2"	33.0	27.5	29.5	30.5
1"x1/4"	40.5	19.0	28.5	30.5
1"x3/8"	40.5	22.5	30.5	32.0
1"x1/2"	40.5	27.5	32.5	33.5
1"x3/4"	40.5	33.0	34.5	35.5
1-1/4"x3/8"	50.0	22.5	34.0	36.5

SIZE	$\phi A$	$\phi C$	L <sub>1</sub>	L <sub>2</sub>
1-1/4"x1/2"	50.0	27.5	36.5	38.5
1-1/4"x3/4"	50.0	33.0	38.5	40.5
1-1/4"x1"	50.0	40.5	40.5	42.5
1-1/2"x3/8"	56.5	22.5	34.0	40.0
1-1/2"x1/2"	56.5	27.5	36.0	41.5
1-1/2"x3/4"	56.5	33.0	38.5	43.5
1-1/2"x1"	56.5	40.5	41.5	45.5
1-1/2"x1-1/4"	56.5	50.0	45.5	48.5
2"x1/2"	70.0	27.5	42.0	51.5
2"x3/4"	70.0	33.0	44.0	52.5
2"x1"	70.0	40.5	46.5	53.5
2"x1-1/4"	70.0	50.0	48.5	54.5
2"x1-1/2"	70.0	56.5	52.5	55.5

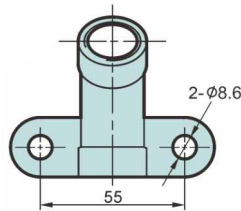
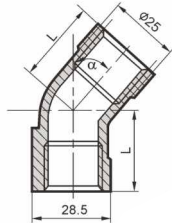
**K-01B Elbow 90 Equal Banded Socket Weld**



Unit: mm

SIZE	$\phi A$	$\phi B$	L
1/8"	17.0	11.0	19.0
1/4"	21.3	14.4	21.0
3/8"	23.5	17.8	21.3
1/2"	29.0	22.0	27.0
3/4"	36.0	27.4	33.0
1"	43.0	34.1	38.0
1-1/4"	52.0	42.9	45.0
1-1/2"	58.5	48.9	50.0
2"	71.5	61.4	57.0
2-1/2"	87.0	74.1	69.7
3"	99.5	90.1	77.0
4"	126.0	115.7	98.2

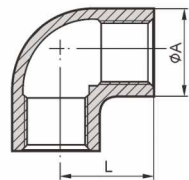
**K-01C Elbow With Strip**



Unit: mm

SIZE	$\alpha$	L
1/2"	45°	22.8
1/2"	60°	25.6
1/2"	75°	28.5
1/2"	90°	27.7

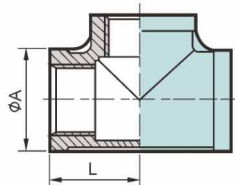
**K-01D Elbow 90 Non-Banded F/F**



Unit: mm

SIZE	$\phi A$	L
1/8"	15.0	17.0
1/4"	19.0	19.0
3/8"	23.0	23.0
1/2"	27.0	27.0
3/4"	33.0	32.0
1"	41.0	38.0
1-1/4"	50.0	46.0
1-1/2"	56.0	48.0
2"	69.0	57.0

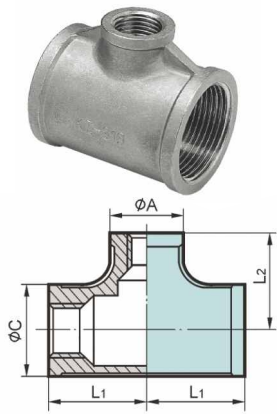
**K-02 Tee Banded**



Unit: mm

SIZE	$\phi A$	L
1/8"	15.5	17.5
1/4"	19.0	19.5
3/8"	22.5	23.5
1/2"	27.5	27.5
3/4"	33.0	32.5
1"	40.5	38.5
1-1/4"	50.0	45.5
1-1/2"	56.5	48.5
2"	70.0	57.5
2-1/2"	86.5	69.5
3"	100.0	78.5
4"	126.0	96.5

## K-02A Tee Banded Reducing

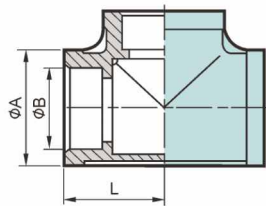


Unit: mm

SIZE	φA	φC	L <sub>1</sub>	L <sub>2</sub>
1/4"x1/8"	15.5	19.0	18.5	18.5
3/8"x1/8"	15.5	22.5	19.5	20.5
3/8"x1/4"	19.0	22.5	20.5	22.5
1/2"x1/8"	15.5	27.5	23.5	23.5
1/2"x1/4"	19.0	27.5	24.5	24.5
1/2"x3/8"	22.5	27.5	26.5	25.5
3/4"x1/4"	19.0	33.0	26.5	27.5
3/4"x3/8"	22.5	33.0	28.5	28.5
3/4"x1/2"	27.5	33.0	29.5	30.5
1"x1/4"	19.0	40.5	27.5	30.5
1"x3/8"	22.5	40.5	30.5	32.0
1"x1/2"	27.5	40.5	32.5	33.5
1"x3/4"	33.0	40.5	34.5	35.5
1-1/4"x3/8"	22.5	50.0	34.0	36.5

SIZE	φA	φC	L <sub>1</sub>	L <sub>2</sub>
1-1/4"x1/2"	27.5	50.0	36.0	38.5
1-1/4"x3/4"	33.0	50.0	38.5	40.5
1-1/4"x1"	40.5	50.0	40.5	42.5
1-1/2"x3/8"	22.5	56.5	34.0	40.0
1-1/2"x1/2"	27.5	56.5	36.0	41.5
1-1/2"x3/4"	33.0	56.5	38.5	43.5
1-1/2"x1"	40.5	56.5	41.5	45.5
1-1/2"x1-1/4"	50.0	56.5	45.5	48.5
2"x1/2"	27.5	69.0	39.0	47.5
2"x3/4"	33.0	69.0	41.5	49.5
2"x1"	40.5	69.0	44.5	51.5
2"x1-1/4"	50.0	70.0	48.5	54.5
2"x1-1/2"	56.5	70.0	52.5	55.5

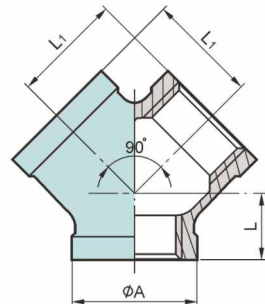
## K-02B Tee Banded Socket Weld



Unit: mm

SIZE	φA	φB	L
1/8"	17.0	11.0	19.0
1/4"	21.3	14.4	21.0
3/8"	23.5	17.8	23.6
1/2"	30.0	22.0	28.0
3/4"	35.0	27.4	33.0
1"	43.0	34.1	38.0
1-1/4"	52.0	42.9	45.0
1-1/2"	58.5	48.9	50.0
2"	71.5	61.4	58.0
2-1/2"	87.0	74.1	70.0
3"	100.0	90.1	78.5
4"	125.0	115.7	97.0

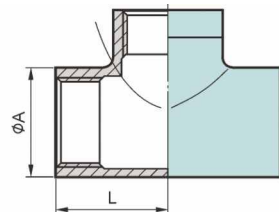
## K-02C Y-Tee Banded



Unit: mm

SIZE	φA	L	L <sub>1</sub>
1/8"	17.0	10.0	17.0
1/4"	21.0	13.0	19.0
3/8"	25.0	14.0	23.0
1/2"	29.0	18.0	27.0
3/4"	35.0	20.0	32.0
1"	43.0	23.0	38.0
1-1/4"	52.0	28.0	46.0
1-1/2"	58.0	30.0	48.0
2"	71.0	34.0	57.0
2-1/2"	88.0	40.0	68.0
3"	101.0	45.0	78.0
4"	129.0	52.0	97.0

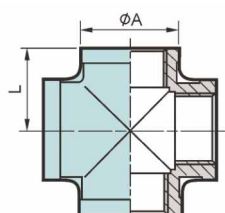
## K-02D Tee Non-Banded



Unit: mm

SIZE	φA	L
1/8"	15.0	17.0
1/4"	19.0	19.0
3/8"	23.0	23.0
1/2"	27.0	27.0
3/4"	33.0	32.0
1"	41.0	38.0
1-1/4"	50.0	46.5
1-1/2"	56.0	48.0
2"	69.0	57.0

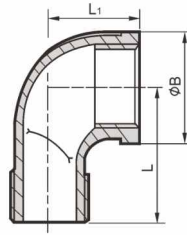
## K-03 Cross Banded



Unit: mm

SIZE	φA	L
1/8"	15.5	17.5
1/4"	19.0	19.5
3/8"	22.5	23.5
1/2"	27.0	27.5
3/4"	32.5	32.5
1"	40.0	38.5
1-1/4"	50.0	45.5
1-1/2"	56.5	48.5
2"	69.0	57.5
2-1/2"	86.5	69.5
3"	100.0	78.5
4"	126.0	96.5

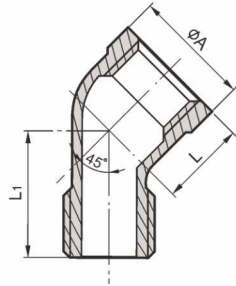
K-04 Street Elbow 90 M/F



Unit: mm

SIZE	$\phi B$	L	L <sub>1</sub>
1/8"	15.5	26.5	17.5
1/4"	19.0	27.5	19.5
3/8"	22.5	29.5	23.5
1/2"	27.0	35.5	27.5
3/4"	32.5	40.5	32.5
1"	40.0	46.5	38.5
1-1/4"	50.0	54.5	45.5
1-1/2"	56.5	57.5	48.5
2"	69.0	70.5	57.5
2-1/2"	86.5	83.5	69.5
3"	100.0	94.5	78.5
4"	126.0	115.5	97.5

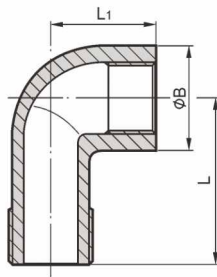
K-04A Street Elbow 45 M/F



Unit: mm

SIZE	$\phi A$	L	L <sub>1</sub>
1/8"	17.0	16.0	21.0
1/4"	21.0	17.0	23.0
3/8"	25.0	19.0	27.0
1/2"	29.0	21.0	31.0
3/4"	35.0	25.0	36.0
1"	43.0	29.0	42.0
1-1/4"	52.0	34.0	49.0
1-1/2"	58.0	37.0	51.0
2"	71.0	42.0	59.0
2-1/2"	88.0	49.0	71.0
3"	101.0	54.0	79.0
4"	129.0	65.0	96.0

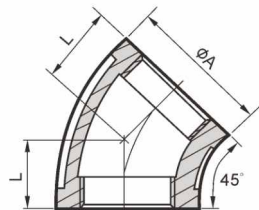
K-04B Street Elbow Non-Banded M/F



Unit: mm

SIZE	$\phi B$	L	L <sub>1</sub>
1/8"	15.0	26.0	17.0
1/4"	19.0	30.0	19.0
3/8"	23.0	35.0	23.0
1/2"	27.0	40.0	27.0
3/4"	33.0	47.0	32.0
1"	41.0	54.0	38.0
1-1/4"	50.0	62.0	46.0
1-1/2"	56.0	68.0	48.0
2"	69.0	79.0	57.0

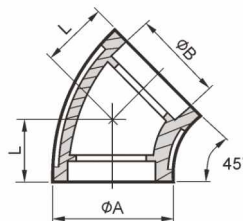
K-05 Elbow 45 Equal Banded F/F



Unit: mm

SIZE	$\phi A$	L
1/8"	15.5	16.5
1/4"	19.0	17.5
3/8"	22.5	19.5
1/2"	27.0	21.5
3/4"	32.5	25.5
1"	40.0	29.5
1-1/4"	50.0	33.5
1-1/2"	56.5	37.5
2"	69.0	42.5
2-1/2"	86.5	49.5
3"	100.0	54.5
4"	126.0	64.5

K-05A Elbow 45 Banded Socket Weld



Unit: mm

SIZE	$\phi A$	$\phi B$	L
1/8"	18.0	11.0	18.0
1/4"	21.0	14.4	19.4
3/8"	25.0	17.8	20.0
1/2"	29.5	22.0	22.0
3/4"	35.6	27.2	25.0
1"	43.0	34.1	28.0
1-1/4"	52.4	42.9	33.0
1-1/2"	58.0	48.9	36.0
2"	72.0	61.4	43.0
2-1/2"	87.0	74.1	50.0
3"	100.0	90.0	55.0
4"	125.5	115.7	64.0