



Our Soft Copper Capillary Tubing is precision plug drawn with the internal diameter held to a tolerance of +/- .001. It has been thoroughly dehydrated, sealed and individually packaged.

## BC Series Bullet® Restricto Cap Tubing

Fits **ANY** domestic and commercial refrigerator or room air conditioner from 1/8 H.P. to 5 H.P.

### Features

- Precision Bore, Plus or Minus .001
- The Bullet Restricto Cap is consolidated into a five-pak replacement kit. It's guaranteed to provide you with uniformity on all applications.
- The five "Restricto Cap" sizes cover hundreds of applications (see chart below).
- Specification: ASTMB360

PART NO.	SIZE	LENGTH
<b>BC1</b>	.081 O.D. x .031 I.D.	10 FT. COIL
<b>BC2</b>	.093 O.D. x .040 I.D.	12 FT. COIL
<b>BC3</b>	.093 O.D. x .052 I.D.	12 FT. COIL
<b>BC4</b>	.125 O.D. x .064 I.D.	12 FT. COIL
<b>BC5</b>	.071 O.D. x .028 I.D.	10 FT. COIL
<b>BC1-100</b>	.081 O.D. x .031 I.D.	100 FT. COIL
<b>BC2-100</b>	.093 O.D. x .040 I.D.	100 FT. COIL
<b>BC3-100</b>	.093 O.D. x .052 I.D.	100 FT. COIL
<b>BC4-100</b>	.125 O.D. x .064 I.D.	100 FT. COIL
<b>BC5-100</b>	.071 O.D. x .028 I.D.	100 FT. COIL
<b>5PAK</b>	Five pack replacement kit.	



## CTC3 Cap Tube Computer

Calculate the flow rate of a defective cap tube and duplicate that flow rate with cap tubes that have a different I.D.

### Features/Benefits

- Computes inside diameter, length, refrigerant, horsepower, application and flow rate
- Shows temperature/pressure charts for 12 refrigerants
- Compact, light weight & easy to use!
- Converts Cap Tubing used with refrigerants R12, 134A, R22, and R502 only.

### Added Notes

- Use R12 conversion for R416A
- Use R134 conversion for R401A, R401B, R406A, R500, R409A
- Use R502 conversion for R402B, R403B, R404A, R407C, R408A



## Reference chart for Bullet® "Restricto" Capillary Tubing for All Refrigerants in Low, Medium and High Applications

**NOTE:** This chart is average measurements for average conditions, and may have to be "fine tuned" for exact replacement. These charts are for Fan Cooled units only. Add 10% to the length of the cap tubing for Static Cooled Units.

**NOTE:** Application Temperatures are Saturated Suction Temperatures (SST).

### SINGLE FEED

REF	hp	-10 LOW	+20 MED	+45 HIGH
<b>R12/R416A</b>	1/8 hp	110" # 5	84" # 5	48" # 5
	1/6 hp	71" # 5	96" # 1	72" # 1
	1/5 hp	54" # 1	36" # 1	24" # 1
	1/4 hp	43" # 1	90" # 2	60" # 2
	1/3 hp	93" # 2	72" # 2	36" # 2
	1/2 hp	96" # 3	48" # 3	90" # 4
	3/4 hp	60" # 3	92" # 4	72" # 4
	1 hp	36" # 3	84" # 4	54" # 4
	1-1/2 hp	84" # 4	60" # 4	43" # 4
	2 hp	55" # 4	40" # 4	26" # 4

REF	hp	-10 LOW	+20 MED	+45 HIGH
<b>R134A / R401A R401B/R406A R409A/R500</b>	1/8 hp	121" # 5	92" # 5	53" # 5
	1/6 hp	78" # 5	106" # 1	79" # 1
	1/5 hp	59" # 1	39" # 1	26" # 1
	1/4 hp	47" # 1	99" # 2	66" # 2
	1/3 hp	102" # 2	79" # 2	39" # 2
	1/2 hp	105" # 3	52" # 3	99" # 4
	3/4 hp	66" # 3	101" # 4	79" # 4
	1 hp	39" # 3	92" # 4	59" # 4
	1-1/2 hp	92" # 4	66" # 4	47" # 4
	2 hp	61" # 4	44" # 4	29" # 4

**NOTE:** For Multiple Feeds with smaller HP's than those shown in the charts.

- Divide HP by number of feeds, go to Single Feed Chart, select a cap tube for the calculated HP and use that selection for each feed.
- Ex: 1 HP, LOW, R12 5 FEED USE: 1/5 HP, LOW, R12, SINGLE FEED CHART
- RESULT: 5 Feeds, 54" BC1

# Cap Tubing

## SINGLE FEED

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R22</b>	1/8 hp	132" #5	101" #5	58" #5	
	1/6 hp	86" #5	116" #1	86" #1	
	1/5 hp	64" #1	42" #1	28" #1	
	1/4 hp	51" #1	109" #2	72" #2	
	1/3 hp	112" #2	87" #2	43" #2	
	1/2 hp	115" #3	57" #3	109" #4	
	3/4 hp	72" #3	111" #4	87" #4	
	1 hp	42" #3	101" #4	65" #4	
	1-1/2 hp	101" #4	72" #4	51" #4	
	2 hp	67" #4	48" #4	32" #4	
	<b>R402A/R407A R407B/R507</b>	1/8 hp	N/A	122" #5	69" #5
		1/6 hp	104" #5	138" #1	105" #1
1/5 hp		77" #1	50" #1	34" #1	
1/4 hp		62" #1	34" #1	86" #2	
1/3 hp		33" #1	106" #2	52" #2	
1/2 hp		31" #2	69" #3	35" #3	
3/4 hp		87" #3	37" #3	106" #4	
1 hp		52" #3	30" #3	79" #4	
1-1/2 hp		32" #3	86" #4	62" #4	
2 hp		82" #4	58" #4	37" #4	

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R402B/R403B R404A/R407C R408A/R502</b>	1/8 hp	144" #5	111" #5	63" #5	
	1/6 hp	95" #5	78" #5	95" #1	
	1/5 hp	70" #1	46" #1	31" #1	
	1/4 hp	56" #1	31" #1	79" #2	
	1/3 hp	30" #1	96" #2	47" #2	
	1/2 hp	29" #2	63" #3	32" #3	
	3/4 hp	79" #3	32" #3	96" #4	
	1 hp	46" #3	111" #4	72" #4	
	1-1/2 hp	111" #4	79" #4	56" #4	
	2 hp	74" #4	52" #4	34" #4	
	<b>R410A</b>	1/8 hp	N/A	144" #5	81" #5
		1/6 hp	123" #5	100" #5	78" #5
1/5 hp		90" #1	60" #1	41" #1	
1/4 hp		73" #1	40" #1	101" #2	
1/3 hp		38" #1	30" #1	62" #2	
1/2 hp		37" #2	84" #3	42" #3	
3/4 hp		104" #3	44" #3	34" #3	
1 hp		62" #3	36" #3	94" #4	
1-1/2 hp		38" #3	103" #4	74" #4	
2 hp		96" #4	69" #4	45" #4	

## DOUBLE FEED (All double feed caps tubes require 2 lengths of each size listed below.)

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R12/R416A</b>	1/2 hp	43" #1	90" #2	60" #2	
	3/4 hp	30" #1	63" #2	42" #2	
	1 hp	96" #3	48" #3	90" #4	
	1 1/2 hp	60" #3	92" #4	72" #4	
	2 hp	36" #3	84" #4	54" #4	
	2 1/2 hp	108" #4	72" #4	49" #4	
	3 hp	84" #4	60" #4	43" #4	
	3 1/2 hp	70" #4	54" #4	35" #4	
	4 hp	55" #4	40" #4	26" #4	
	<b>R134A/R401A R401B/R406B R409A/R500</b>	1/2 hp	47" #1	99" #2	66" #2
		3/4 hp	33" #1	69" #2	46" #2
		1 hp	105" #3	52" #3	99" #4
1 1/2 hp		66" #3	101" #4	79" #4	
2 hp		40" #3	92" #4	59" #4	
2 1/2 hp		119" #4	79" #4	53" #4	
3 hp		92" #4	66" #4	47" #4	
3 1/2 hp		77" #4	59" #4	38" #4	
4 hp		60" #4	44" #4	29" #4	
<b>R22</b>		1/2 hp	52" #1	108" #2	72" #2
		3/4 hp	36" #1	77" #2	50" #2
		1 hp	115" #3	58" #3	108" #4
	1 1/2 hp	72" #3	110" #4	86" #4	
	2 hp	43" #3	101" #4	65" #4	
	2 1/2 hp	39" #3	87" #4	58" #4	
	3 hp	101" #4	72" #4	52" #4	
	3 1/2 hp	84" #4	64" #4	41" #4	
	4 hp	66" #4	48" #4	31" #4	

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R402B/R403B R404A/R407C R408A/R502</b>	1/2 hp	56" #1	119" #2	78" #2	
	3/4 hp	39" #1	85" #2	55" #2	
	1 hp	28" #2	63" #3	119" #4	
	1 1/2 hp	79" #3	32" #3	94" #4	
	2 hp	47" #3	110" #4	71" #4	
	2 1/2 hp	43" #3	96" #4	64" #4	
	3 hp	111" #4	79" #4	57" #4	
	3 1/2 hp	92" #4	70" #4	46" #4	
	4 hp	73" #4	53" #4	34" #4	
	<b>R402A/R407A R407B/R507</b>	1/2 hp	62" #1	32" #1	85" #2
		3/4 hp	43" #1	92" #2	60" #2
		1 hp	31" #2	70" #3	36" #3
1 1/2 hp		87" #3	35" #3	103" #4	
2 hp		52" #3	28" #3	78" #4	
2 1/2 hp		47" #3	106" #4	70" #4	
3 hp		32" #3	86" #4	62" #4	
3 1/2 hp		101" #4	77" #4	50" #4	
4 hp		80" #4	58" #4	37" #4	
<b>R410A</b>		1/2 hp	72" #1	37" #1	102" #2
		3/4 hp	50" #1	116" #2	70" #2
		1 hp	37" #2	83" #3	42" #3
	1 1/2 hp	102" #3	44" #3	34" #3	
	2 hp	62" #3	37" #3	93" #4	
	2 1/2 hp	55" #3	32" #3	81" #4	
	3 hp	38" #3	101" #4	74" #4	
	3 1/2 hp	118" #4	90" #4	55" #4	
	4 hp	92" #4	70" #4	41" #4	

## TRIPLE FEED (All triple feed cap tubes require 3 lengths of each size listed below.)

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R12/R416A</b>	1 hp	93" #2	72" #2	36" #2	
	1 1/2 hp	96" #3	48" #3	90" #4	
	2 hp	77" #3	38" #3	72" #4	
	3 hp	36" #3	84" #4	54" #4	
	4 hp	108" #4	63" #4	41" #4	
	5 hp	86" #4	50" #4	32" #4	
	<b>R134A/R401A R401B/R406A R409A/R500</b>	1 hp	102" #2	79" #2	39" #2
		1 1/2 hp	105" #3	52" #3	99" #4
		2 hp	84" #3	42" #3	79" #4
		3 hp	40" #3	92" #4	59" #4
		4 hp	30" #3	69" #4	45" #4
		5 hp	94" #4	55" #4	35" #4
<b>R22</b>		1 hp	112" #2	86" #2	43" #2
		1 1/2 hp	37" #2	58" #3	108" #4
		2 hp	92" #3	46" #3	86" #4
		3 hp	43" #3	100" #4	65" #4
		4 hp	32" #3	75" #4	49" #4
		5 hp	102" #4	60" #4	39" #4

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R402B/R403B R404A/R407C R408A/R502</b>	1 hp	30" #1	94" #2	47" #2	
	1 1/2 hp	41" #2	63" #3	32" #3	
	2 hp	101" #3	50" #3	95" #4	
	3 hp	47" #3	110" #4	71" #4	
	4 hp	35" #3	83" #4	53" #4	
	5 hp	32" #3	66" #4	43" #4	
	<b>R402A/R407A R407B/R507</b>	1 hp	33" #1	104" #2	52" #2
		1 1/2 hp	45" #2	70" #3	35" #3
		2 hp	111" #3	55" #3	104" #4
		3 hp	52" #3	31" #3	78" #4
		4 hp	38" #3	91" #4	58" #4
		5 hp	35" #3	72" #4	47" #4
<b>R410A</b>		1 hp	39" #1	30" #1	62" #2
		1 1/2 hp	54" #2	84" #3	42" #3
		2 hp	27" #2	66" #3	32" #3
		3 hp	62" #3	37" #3	94" #4
		4 hp	46" #3	109" #4	68" #4
		5 hp	42" #3	86" #4	56" #4

# Cap Tubing

## FOUR FEED (All four feed cap tubes require 4 lengths of each size listed below.)

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R12/R416A</b>	2 hp	96" #3	48" #3	90" #4	
	3 hp	60" #3	92" #4	72" #4	
	4 hp	36" #3	84" #4	54" #4	
	5 hp	105" #4	67" #4	43" #4	
<b>R134A/R401A</b>	2 hp	105" #3	52" #3	99" #4	
	<b>R401B/R406A</b>	3 hp	66" #3	101" #4	79" #4
		4 hp	40" #3	92" #4	59" #4
	<b>R409A/R500</b>	5 hp	32" #3	74" #4	47" #4
<b>R22</b>		2 hp	115" #3	58" #3	108" #4
	3 hp	72" #3	110" #4	86" #4	
	4 hp	44" #3	101" #4	65" #4	
	5 hp	35" #3	81" #4	52" #4	

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R402B/R403B</b>	2 hp	29" #2	63" #3	32" #3	
	<b>R404A/R407C</b>	3 hp	79" #3	32" #3	94" #4
		<b>R408A/R502</b>	4 hp	47" #3	111" #4
5 hp	38" #3		89" #4	57" #4	
<b>R402A/R407A</b>	2 hp	31" #2	70" #3	35" #3	
	<b>R407B/R507</b>	3 hp	87" #3	35" #3	103" #4
		4 hp	52" #3	31" #3	78" #4
5 hp	42" #3	97" #4	63" #4		
<b>R410A</b>	2 hp	34" #2	81" #3	41" #3	
	3 hp	101" #3	48" #3	32" #3	
	4 hp	62" #3	36" #3	92" #4	
	5 hp	49" #3	30" #3	74" #4	

## FIVE FEED (All five feed cap tubes require 5 lengths of each size listed below.)

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R12/R416A</b>	2 hp	115" #3	58" #3	108" #4	
	3 hp	81" #3	41" #3	77" #4	
	4 hp	57" #3	87" #4	68" #4	
	5 hp	36" #3	82" #4	54" #4	
<b>R134A/R401A</b>	2 hp	28" #2	62" #3	32" #3	
	<b>R401B/R406B</b>	3 hp	89" #3	45" #3	84" #4
		<b>R409A/R500</b>	4 hp	62" #3	95" #4
	5 hp		40" #3	92" #4	59" #4
<b>R22</b>	2 hp	32" #2	70" #3	35" #3	
	3 hp	97" #3	49" #3	92" #4	
	4 hp	68" #3	103" #4	81" #4	
	5 hp	48" #3	98" #4	65" #4	

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R402B/R403B</b>	2 hp	35" #2	77" #3	38" #3	
	<b>R404A/R407C</b>	3 hp	108" #3	54" #3	101" #4
		<b>R408A/R502</b>	4 hp	74" #3	114" #4
5 hp	53" #3		108" #4	71" #4	
<b>R402A/R407A</b>	2 hp	38" #2	84" #3	42" #3	
	<b>R407B/R507</b>	3 hp	28" #2	59" #3	30" #3
		4 hp	81" #3	35" #3	99" #4
		5 hp	58" #3	31" #3	78" #4
<b>R410A</b>	2 hp	45" #2	98" #3	49" #3	
	3 hp	31" #2	69" #3	35" #3	
	4 hp	95" #3	40" #3	30" #3	
	5 hp	67" #3	36" #3	91" #4	

## SIX FEED (All six feed cap tubes require 6 lengths of each size listed below.)

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R12/R116A</b>	2 hp	93" #2	72" #2	36" #2	
	3 hp	96" #3	48" #3	90" #4	
	4 hp	82" #3	41" #3	77" #4	
	5 hp	56" #3	86" #4	68" #4	
<b>R134A/R401A</b>	2 hp	102" #2	79" #2	39" #2	
	<b>R401B/R406A</b>	3 hp	105" #3	52" #3	99" #4
		<b>R409A/R500</b>	4 hp	90" #3	45" #3
	5 hp		62" #3	95" #4	75" #4
<b>R22</b>	2 hp	112" #2	86" #2	43" #2	
	3 hp	115" #3	58" #3	108" #4	
	4 hp	98" #3	49" #3	92" #4	
	5 hp	68" #3	103" #4	81" #4	

REF	hp	-10 LOW	+20 MED	+45 HIGH	
<b>R402B/R403B</b>	2 hp	30" #1	94" #2	47" #2	
	<b>R404A/R407C</b>	3 hp	29" #2	63" #3	32" #3
		<b>R408A/R502</b>	4 hp	118" #3	53" #3
5 hp	74" #3		30" #3	89" #4	
<b>R402A/R407A</b>	2 hp	33" #1	103" #2	52" #2	
	<b>R407B/R507</b>	3 hp	31" #2	70" #3	35" #3
		4 hp	26" #2	58" #3	30" #3
		5 hp	82" #3	33" #3	98" #4
<b>R410A</b>	2 hp	40" #1	31" #1	62" #2	
	3 hp	37" #2	85" #3	42" #3	
	4 hp	33" #2	70" #3	36" #3	
	5 hp	98" #3	40" #3	32" #3	

**NOTE:** For Multiple Feeds with smaller hp's than those shown in the charts.

- Divide hp by number of feeds, go to Single Feed Chart, select a cap tube for the calculated hp and use that selection for each feed.
- Ex: 1 hp, LOW, R12 5 FEED USE: 1/5 hp, LOW, R12, SINGLE FEED CHART
- RESULT: 5 Feeds, 54" BC1