



## OXYGEN FISHTAIL BURNER TIPS

Carlisle Piloted Oxygen Fishtail Burner Tips are manufactured from a heat resistant stainless steel alloy. They can be used on a number of different hand torches, on machines, or in custom manifolds such as a crossfire setup. Carlisle tips are manufactured for use with a mixture of oxygen and either natural gas, propane, or mixed gas. Although some of Carlisle's other tips are used with a hydrogen and oxygen mixture, it is recommended that this mixture not be used with any type of piloted burner. Carlisle also recommends that hydrogen and oxygen mixtures not be used with any type of pre-mixed multi hose piloted burners.

Fishtail Burners can have one of two types of flames, depending on the port configurations. These two types are parallel and divergent. A Fishtail Burner's flame is parallel when the drilled porting that is utilized up the burner are all drilled at the same angle so that all focal points are parallel with one another. The flame is considered divergent if the porting is at different angles causing the flame to fan out to a wider

### BULLETIN REFERENCES

Hand Torches- Bulletins 22A, 22B, 22C, 22D, 22E  
Adapters- Bulletin 24C

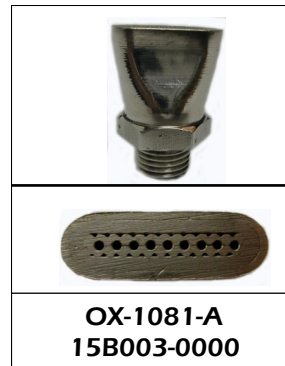
Carlisle Piloted Oxygen Fishtail Burner Tips are pre-mixed. As with any pre-mixed burner, be sure to use the proper equipment:

Mixers- Bulletins 17C, 16E  
Controls- Bulletins 16A, 16E

Piloting allows the flame produced by a burner to experience increased stability. Carlisle Piloted Oxygen Fishtail Burner Tips achieve this effect through a ring of smaller drilled ports around the larger porting. This low level of burning gas forms a sort of supporting foundation around the center flame. Due to the increased stability, an operator is able to push the burner harder without the flame moving off of the face of the burner.



OX-1012  
15B001-0000



OX-1081-A  
15B003-0000

## BURNER TIP SERIES SPECIFICATIONS CHARTS

The following section of charts gives specific information concerning Carlisle Piloted Oxygen Fishtail Burner Tips. The brief summary that follows will define a few of the chart's fields. If there are any further questions concerning these charts, contact Carlisle directly and our sales staff will be happy to help you.

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## PILOTED OXYGEN FISHTAIL BURNER TIPS

CATALOG NUMBER	BURNER NUMBER	HEIGHT	WIDTH	THREAD SIZE	PORT SIZE	# OF PORTS	FOCAL LENGTH	OVERALL FLAME	TYPE OF FLAME	BTU / HR @ 12 W.C. NATURAL GAS & OXYGEN MIX
15B001-0000	OX-1012	7/8"	9/16"	1/4"-27M	64	4	1/4"	2 1/2"	D	6,300
15B001-0015	OX-1012A	3/4"	9/16"	10-32F	64	4	1/4"	5"	D	6,300
15B001-0025	OX-1012B	7/8"	9/16"	1/4"-27M	74	4	1/8"	2 1/2"	D	2,100
15B001-0035	OX-1012C	7/8"	9/16"	1/4"-27M	78	6	1/8"	6"	P	1,575
15B001-0045	OX-1012D	3/4"	9/16"	10-32F	75	5	1/8"	3"	D	2,310
15B001-0055	OX-1012E	7/8"	9/16"	1/4"-27M	78	5	1/8"	4"	P	1,470
15B002-0000	OX-1012-F	7/8"	9/16"	1/4"-27M	71	5	1/8"	7"	P	3,675
15B002-0010	OX-1012G	7/8"	9/16"	1/4"-27M	64	4	1/8"	8"	P	6,825
15B002-0020	OX-1012H	7/8"	9/16"	1/4"-27M	78	5	1/8"	2"	D	1,470
15B003-0000	OX-1081A	1 5/16"	15/16"	1/4" MPT	62	9	1/4"	3"	D	12,080
15B003-1000	OX-1081B	1 5/16"	15/16"	1/4" MPT	62	9	1/4"	12"	P	12,780
15B003-2000	OX-1081C	1 5/16"	15/16"	1/4" MPT	74	9	3/16"	3"	D	12,780
15B003-0040	OX-1081E	1 5/16"	15/16"	1/4" MPT	62	5	1/4"	3"	D	9,225
15B003-5000	OX-1081F	1 5/16"	15/16"	1/4" MPT	71	10	1/8"	3"	D	6,375

Carlisle Un-piloted Oxygen Fishtail Burner Tips are manufactured from a heat resisting stainless steel alloy. They can be used on a number of different hand torches, on machines, or in custom manifolds such as a crossfire setup. Carlisle tips are manufactured for use with a mixture of oxygen and natural gas, propane, or mixed gas. Although some of Carlisle's other tips are used with a hydrogen and oxygen mixture, it is not recommended that this mixture be used with any type of pre-mixed burner. Unlike the Piloted Fishtail Burner Series, these tips only have the larger porting and no smaller porting. The lack of supporting flame from the missing piloting means that the tip can not be pushed as hard as a tip with piloting. Although, it is important to note that with an un-piloted tip, an operator will achieve a much sharper flame.

### BULLETIN REFERENCES

Hand Torches- Bulletins 22A, 22B, 22C, 22D, 22E  
Adapters- Bulletin 24C

Carlisle Un-piloted Oxygen Fishtail Burner Tips are pre-mixed. As with any pre-mixed burner, be sure to use the proper equipment:

Mixers- Bulletins 17C, 16E  
Controls- Bulletins 16A, 16E

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# UN-PILOTED OXYGEN FISHTAIL BURNER TIPS



CATALOG NUMBER	BURNER NUMBER	HEIGHT	WIDTH	THREAD SIZE	PORT SIZE	# OF PORTS	FOCAL LENGTH	OVERALL FLAME	TYPE OF FLAME	BTU / HR @ 12 W.C. NATURAL GAS & OXYGEN MIX
15B004-0000	1253	1 3/16"	23/32"	1/8" MPT	#71	10	1/8"	5"	P	5,250
<b>Discontinued</b>	1253-A	1 5/16"	29/32"	1/8" MPT			1/8"	5"	P	8,400
15B005-0000	1253-C	1 3/16"	23/32"	1/8" MPT	#71	6	1/8"	2"	P	3,680
15B006-0000	1253-D	1 3/16"	23/32"	1/8" MPT	#71	4	1/8"	2"	P	2,625
15B007-0000	1253-F	1 3/16"	23/32"	1/8" MPT	#71	12	1/4"	7"	P	6,835
15B008-0000	1368	1 7/16"	1 5/16"	1/4" MPT	#71	15	1/8"	5"	P	7,555
15B008-2000	1621	1 19/32"	1 11/16"	1/4" MPT	#71	22	1/8"	5"	P	11,000
15B009-0000	1381	1 5/16"	11/16"	1/8" FPT	#62	9			D	
15B010-0000	1381-A	1 5/16"	11/16"	1/4" MPT	#62	9			D	
15B011-0000	15	5/8"	13/32"	1/4-27M	#71	5	1/4"	6"	P	4,200
15B012-0000	15A	5/8"	13/32"	1/4-27M	#71	2	3/16"	4"	P	1,050
15B013-0000	15B	5/8"	13/32"	1/4-27M	#58	2	1/4"	4 1/2"	P	3,460
15B014-0000	15C	5/8"	13/32"	1/4-27M	#71	3	3/16"	6"	P	2,100
15B015-0000	15D	5/8"	13/32"	1/4-27M	#80	5	1/16"	2"	P	1,155
15B016-0000	15E	5/8"	13/32"	1/4-27M	#80	3	1/32"	1/2"	P	925
15B017-0000	15F	5/8"	13/32"	1/4-27M	#80	2	1/32"	1/2"	P	655
15B018-0000	15G	5/8"	13/32"	1/4-27M	#77	5	1/4"	3"	P	12,60
15B019-0000	15H	5/8"	13/32"	1/4-27M	#71	4	1/4"	7"	D	3,680
15B020-0000	15K	5/8"	13/32"	1/4-27M	#71	3	1/4"	7"	P	2,100

Carlisle is always interested in offering the ability to manufacture special tips and designs to their customers. There are several special tips that we deal with already. These range from altering a center drill port size of one of our standard tips, to manufacturing straight from a customer's drawing.

Please feel free to contact the Carlisle sales team with any specialty designs and we will be happy to work with you to create a competitive and workable pricing schedule for your needs.

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