



PILOTED OXYGEN SINGLE HOLE BURNER TIPS

Carlisle Piloted Oxygen Burner Tips are offered in a multitude of different styles. These tips can be manufactured from brass, stainless steel, or both. They can be used on a number of different hand torches, 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 mixture of hydrogen and oxygen, 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 burners except single hole un-piloted burner tips. Piloting allows the flame produced by a burner to provide increased stability. Piloted Oxygen Burner Tips achieve this effect through the use of knurled inserts that form a ring of smaller ports around the larger center orifice. This low level of burning gas forms a 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.



OX1300-A SERIES

This series is offered in both brass and stainless steel. The body style is hexagonal. This burner is utilized frequently on machinery for glassworking.

1300-A



OX1319 SERIES

The OX1319 series is offered in stainless steel only. This series has one of the largest flame outputs of any single orifice piloted tip sold by Carlisle. By using a unique double ring piloting system, these tips can utilize exceptionally large center drill sizes and still develop **flame lengths over 12"**.

OX1319



IT SERIES

The IT tip series, offered only in stainless steel, is a unique series because of the design of it's piloting. Rather than using a knurled insert, this series uses a milled slot for piloting that is located below the port configuration. This design makes it very difficult for a blow-off to occur. For varied flame types, this series is offered with 1 - 3 port holes.

IT-2



8 SERIES

The 8 burner series is offered only in stainless steel. The 8 series consists of mostly smaller burners which are used for their pinpoint flames. Most burners in this series are still able to **produce overall flame lengths of between 3" - 6" with focal lengths of 1/8" - 3/8"**.

8-M

BULLETIN REFERENCES

Hand Torches-	Bulletins 22A, 22B, 22C, 22D, 22E
Adapters-	Bulletin 24C
Carlisle Piloted Oxygen 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
Safety-	Bulletins 18A, 18B

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OF SERIES

The OF series is offered in brass only. Their body style is hexagonal. This series is very similar to the OX1300-A series. The main difference between the two is their body styles. **In most cases, the OF series is a full 2" long where as the 1300-A series is standardly closer to a 1" length. The center drill sizes of this series have a larger range compared to the 1300-A series.**



693 SERIES

This series is offered only in stainless steel. The body style is round and **constructed from 1/8" pipe. This series offers two distinct sizes depending on the customer's needs. By specifying any burner numbers with a suffix of "D", these burners will be made in a length of 2" rather than the standard 1".**



OX SERIES

This series is offered in both brass and stainless steel. The body style is hexagonal. This burner is threaded to fit the standard oxygen nozzle for use with all Carlisle hand torches (Bulletin 22A, 22B). This series has 5 tips numbered 1 - 5. The larger numbers signify a larger center drill size and a greater flame output.



OX-MP SERIES

This series is offered only in brass. The body style is hexagonal. The OX-MP series has a **very unique 3/16" x 40 thread to fit the Hoke Oxygen Torch. This series has 5 tips** numbered 1 - 5. The larger numbers signify a larger center drill size and a greater flame output.



NOX SERIES

This series is offered in both brass and stainless steel. The body style is hexagonal. This **burner has a 7/16"-24 thread to fit the Carlisle High Capacity Hand Torch (Bulletin 22E).** The NOX series has 5 tips numbered 1 - 5. The larger numbers signify a larger center drill size and a greater flame output.

BURNER TIP SERIES SPECIFICATIONS CHARTS

The following section of charts give specific information concerning Carlisle Piloted Single Fire Burner Tips. **The summary below 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.**

<p>CATALOG NUMBER BURNER NUMBER BODY SIZE FOCAL LENGTH OVERALL FLAME LENGTH BTU/HR</p>	<p>This represents Carlisle's number by which the burner tip can be ordered. This number represents a more universally recognized model number. In hex or round, this is a measurement of the diameter of the burner's body. This is the length of the focused smaller blue flame under normal operation. This is the length of the flame from the face of the tip to the very end. The approximate BTU/HR of the tip at 12" W.C. natural gas and oxygen mixture.</p>
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CATALOG NUMBER	BURNER NUMBER	MATERIAL	BODY SIZE	BODY LENGTH	CTR. DRILL	THREAD SIZE	FOCAL LENGTH	OVERALL FLAME	BTU / HR @ 12" W.C. NATURAL GAS & OXYGEN MIX
15A001-0000	OX1300-A	BRS	7/16" HEX	1 1/4"	#55	1/8" MPT	3/8"	7"	4,410
15A002-0000	OX1300-A	SS	7/16" HEX	1 1/4"	#55	1/8" MPT	3/8"	7"	4,410
15A003-0000	OX1301-A	BRS	7/16" HEX	1 1/4"	#49	1/8" MPT	1/2"	4 1/2"	8,580
15A004-0000	OX1301-A	SS	7/16" HEX	1 1/4"	#49	1/8" MPT	1/2"	4 1/2"	8,580
15A005-0000	OX1301-B	BRS	7/16" HEX	1 1/4"	#31	1/8" MPT	1/2"	4 1/2"	23,680
15A006-0000	OX1301-B	SS	7/16" HEX	1 1/4"	#31	1/8" MPT	1/2"	4 1/2"	23,680
15A007-0000	OX1142-A	BRS	7/16" HEX	1 1/4"	#58	1/8" MPT	3/8"	7"	2,910
15A008-0000	OX1142-A	SS	7/16" HEX	1 1/4"	#58	1/8" MPT	3/8"	7"	2,910
15A009-0000	OX1142-C	BRS	7/16" HEX	1"	#58	1/8" FPT	3/8"	7"	2,910
15A010-0000	OX1142-C	SS	7/16" HEX	1"	#58	1/8" FPT	3/8"	7"	2,910
15A011-0000	OX1142-J	BRS	7/16" HEX	1 1/4"	#68	1/8" MPT	1/8"	3"	1,580
15A012-0000	OX1142-J	SS	7/16" HEX	1 1/4"	#68	1/8" MPT	1/8"	3"	1,580
15A013-0000	OX1319	SS	5/8" HEX	1 3/4"	#34	1/4" FPT	5/8"	8 1/2"	20,480
15A014-0000	OX1320	SS	5/8" HEX	1 3/4"	#29	1/4" FPT	3/4"	11"	30,400
15A015-0000	OX1321	SS	5/8" HEX	1 3/4"	#25	1/4" FPT	1"	12 1/2"	37,120
15A016-0000	8-A	SS	1/4" HEX	1/2"	#70	1/4"-27 M	1/4"	3"	1,300
15A017-0000	8-B	SS	15/64" DIA	1/2"	#70	6/32 F	1/4"	3"	1,300
15A018-0000	8-C	SS	15/64" DIA	1/2"	#75	6/32 F	1/4"	2 5/8"	736
15A019-0000	8-D	SS	15/64" DIA	1/2"	#68	6/32 F	1/4"	4"	1,580
15A020-0000	8-E	SS	15/64" DIA	1/2"	#68	6/32 F	1/4"	5"	1,580
15A021-0000	8-F	SS	1/4" HEX	1/2"	#75	1/4"-27 M	1/4"	2 5/8"	736
15A022-0000	8-G	SS	15/64" DIA	1/2"	#68	6/32 F	1/4"	5"	1,580
15A023-0000	8-H	SS	1/4" HEX	1"	#68	1/4"-27 M	1/4"	6"	1,580
15A024-0000	8-L	SS	1/4" HEX	1/2"	#79	1/4"-27 M	1/8"	2"	340
15A025-0000	8-M	SS	1/4" HEX	1/2"	#80	1/4"-27 M	1/8"	2"	300
15A026-0000	8-N	SS	1/4" HEX	1/2"	#68	1/4"-27 M	1/4"	6"	1,580
15A027-0000	8-P	SS	1/4" HEX	1/2"	#65	1/4"-27 M	1/4"	7"	2,010
15A027-1000	8-R	SS	1/4" HEX	1/2"	#71	1/4"-27 M	1/4"	3"	1,110
15A028-0000	8-DX	SS	1/4" HEX	1/2"	#58	1/4"-27 M	3/8"	3 1/2"	2,910
15A029-0000	8-DXS	SS	1/4" HEX	3/8"	#58	1/4"-27 M	3/8"	3 1/2"	2,910

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CATALOG NUMBER	BURNER NUMBER	MATERIAL	BODY SIZE	BODY LENGTH	CTR. DRILL	THREAD SIZE	FOCAL LENGTH	OVERALL FLAME	BTU /HR @ 12 W.C. NATURAL GAS & OXYGEN MIX
15A030-0000	1635	SS	.405" DIA	1"	#30	1/8" MPT	3/8"	3 1/2"	27,250
15A031-0000	1635D	SS	.405" DIA	2"	#30	1/8" MPT	3/8"	3 1/2"	27,520
15A032-0000	1636	SS	.405" DIA	1"	#33	1/8" MPT	3/8"	4 1/2"	21,120
15A033-0000	1636D	SS	.405" DIA	2"	#33	1/8" MPT	3/8"	4 1/2"	21,120
15A034-0000	1637	SS	.405" DIA	1"	#44	1/8" MPT	3/8"	4 1/4"	12,190
15A035-0000	1637D	SS	.405" DIA	2"	#44	1/8" MPT	3/8"	4 1/4"	12,190
15A036-0000	1638	SS	.405" DIA	1"	#50	1/8" MPT	3/8"	5 1/4"	7,930
15A037-0000	1638D	SS	.405" DIA	2"	#50	1/8" MPT	3/8"	5 1/4"	7,930
15A038-0000	1639	SS	.405" DIA	1"	#60	1/8" MPT	1/4"	5"	2,650
15A039-0000	1639D	SS	.405" DIA	2"	#60	1/8" MPT	1/4"	5"	2,650
15A040-0000	693	SS	.405" DIA	1"	#55	1/8" MPT	3/8"	6 1/4"	4,410
15A041-0000	693D	SS	.405" DIA	2"	#55	1/8" MPT	3/8"	6 1/4"	4,410
15A042-0000	960	SS	.405" DIA	1"	#76	1/8" MPT	1/8"	2"	650
15A043-0000	960D	SS	.405" DIA	2"	#76	1/8" MPT	1/8"	2"	650
15A044-0000	814	SS	.405" DIA	1"	#50	1/8" MPT	3/8"	7"	7,930
15A045-0000	814D	SS	.405" DIA	2"	#50	1/8" MPT	3/8"	7"	7,930
15A046-0000	IT-1 (1 PORT)	SS	7/16" HEX	15/16"	#76	1/8" MPT	1/8"	1"	660
15A048-0000	IT-2 (2 PORT)	SS	7/16" HEX	15/16"	#76	1/8" MPT	1/8"	1 7/8"	1,320
15A049-0000	IT-3 (3 PORT)	SS	7/16" HEX	15/16"	#78	1/8" MPT	1/8"	2 3/4"	1,270
15A050-0000	OX-1	BRS	3/8" HEX	15/16"	#70	1/4"-28 F	1/8"	4 1/2"	1,300
15A051-0000	OX-1	SS	3/8" HEX	15/16"	#70	1/4"-28 F	1/8"	4 1/2"	1,300
15A052-0000	OX-2	BRS	3/8" HEX	15/16"	#65	1/4"-28 F	1/4"	3 1/4"	2,020
15A053-0000	OX-2	SS	3/8" HEX	15/16"	#65	1/4"-28 F	1/4"	3 1/4"	2,020
15A054-0000	OX-3	BRS	3/8" HEX	15/16"	#56	1/4"-28 F	5/16"	4 1/2"	3,580
15A055-0000	OX-3	SS	3/8" HEX	15/16"	#56	1/4"-28 F	5/16"	4 1/2"	3,580
15A056-0000	OX-4	BRS	3/8" HEX	15/16"	#53	1/4"-28 F	3/8"	5"	5,700
15A057-0000	OX-4	SS	3/8" HEX	15/16"	#53	1/4"-28 F	3/8"	5"	5,700
15A058-0000	OX-5	BRS	3/8" HEX	15/16"	#50	1/4"-28 F	7/16"	5 1/2"	7,930
15A059-0000	OX-5	SS	3/8" HEX	15/16"	#50	1/4"-28 F	7/16"	5 1/2"	7,930

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CATALOG NUMBER	BURNER NUMBER	MATERIAL	BODY SIZE	BODY LENGTH	CTR. DRILL	THREAD SIZE	FOCAL LENGTH	OVERALL FLAME	BTU / HR @ 12 W.C. NATURAL GAS & OXYGEN MIX
15A060-0000	OF-1	BRS	7/16" HEX	2"	#65	1/8" MPT	1/4"	3 1/2"	2,010
15A061-0000	OF-2	BRS	7/16" HEX	1 7/16"	#65	1/8" MPT	3/16"	1 1/4"	2,010
15A062-0000	OF-3	BRS	7/16" HEX	2"	#63	1/8" MPT	1/4"	5"	2,270
15A063-0000	OF-4	BRS	7/16" HEX	1 7/16"	#63	1/8" MPT	3/16"	3"	2,270
15A064-0000	OF-5	BRS	7/16" HEX	2"	#77	1/8" MPT	3/16"	2 1/4"	530
15A078-0000	OF-19	BRS	7/16" HEX	2"	#58	1/8" MPT	5/8"	4 1/2"	2,910
15A079-0000	NOX-1	BRS	1/2" HEX	1 1/4"	#70	7/16"-24 F	1/8"	4 1/2"	1,300
15A080-0000	NOX-1	SS	1/2" HEX	1 1/4"	#70	7/16"-24 F	1/8"	4 1/2"	1,300
15A081-0000	NOX-2	BRS	1/2" HEX	1 1/4"	#65	7/16"-24 F	1/4"	3 1/4"	2,010
15A082-0000	NOX-2	SS	1/2" HEX	1 1/4"	#65	7/16"-24 F	1/4"	3 1/4"	2,010
15A083-0000	NOX-3	BRS	1/2" HEX	1 1/4"	#56	7/16"-24 F	5/16"	4 1/2"	3,580
15A084-0000	NOX-3	SS	1/2" HEX	1 1/4"	#56	7/16"-24 F	5/16"	4 1/2"	3,580
15A085-0000	NOX-4	BRS	1/2" HEX	1 1/4"	#53	7/16"-24 F	3/8"	5"	5,700
15A086-0000	NOX-4	SS	1/2" HEX	1 1/4"	#53	7/16"-24 F	3/8"	5"	5,700
15A087-0000	NOX-5	BRS	1/2" HEX	1 1/4"	#50	7/16"-24 F	7/16"	5 1/2"	7,930
15A088-0000	NOX-5	SS	1/2" HEX	1 1/4"	#50	7/16"-24 F	7/16"	5 1/2"	7,930
15A089-0000	OX-1-MP	BRS	1/4" HEX	7/8"	#60	3/16"-40 M	1/8"	2"	2,650
15A090-0000	OX-2-MP	BRS	1/4" HEX	7/8"	#56	3/16"-40 M	1/4"	4"	3,580
15A091-0000	OX-3-MP	BRS	1/4" HEX	7/8"	#54	3/16"-40 M	3/8"	6"	4,920
15A092-0000	OX-4-MP	BRS	1/4" HEX	7/8"	#51	3/16"-40 M	7/16"	6 1/2"	7,200
15A093-0000	OX-5-MP	BRS	1/4" HEX	7/8"	#45	3/16"-40 M	1/2"	7 1/2"	11,070
15A114-0000	OX-20	SS	7/16" HEX	1"	#75	1/8"-27 M	1/4"	2 1/2"	742
15A115-0000	OX-21	SS	7/16" HEX	1"	#70	1/8"-27 M	1/4"	3"	1,300
15A116-0000	OX-22	SS	7/16" HEX	1"	#65	1/8"-27 M	3/8"	6"	2,010
15A117-0000	OX-23	SS	7/16" HEX	1"	#56	1/8"-27 M	3/8"	7"	4,230
15A118-0000	OX-24	SS	7/16" HEX	1"	#53	1/8"-27 M	1/2"	8"	4,980
15A119-0000	OX-25	SS	7/16" HEX	1"	#50	1/8"-27 M	1/2"	8 1/2"	7,920
15A120-0000	OX-26	SS	7/16" HEX	1"	#45	1/8"-27 M	1/2"	9"	11,110

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UN-PILOTED OXYGEN SINGLE HOLE BURNER TIPS

Carlisle Un-piloted Oxygen Burner Tips are offered in many different styles. These tips can be manufactured from brass or stainless steel. 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, hydrogen, or mixed gas. Although extreme caution should be used with the use of hydrogen in any pre-mixed environment.

BULLETIN REFERENCES

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

Carlisle Un-piloted Oxygen 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

Unlike the Piloted Burner Series, these tips only have a center drill port and no knurled inserts. 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. Also, the tips in the Un-piloted Burner Series can have a much larger center drill port.



O-1

O SERIES

This series is offered in both brass and stainless steel. The body style is hexagonal. This burner is threaded to fit the standard oxygen nozzle for use with all Carlisle hand torches (Bulletin 22A, 22B). This series has 5 tips numbered 1 - 5. The larger numbers signify a larger center drill size and a greater flame output.



AK-1

AK SERIES

This series is offered in both brass and stainless steel. The body style is hexagonal. This **burner is threaded to fit the 3/8" nozzle for use with all Carlisle hand torches (Bulletin 22A, 22B)**. This series has 5 tips numbered 1 - 5. The larger numbers signify a larger center drill size and a greater flame output.



OX-80

OX SERIES

The OX Series is only offered in a brass model. This series has a very different setup from **that of other tips in it's section. The range of tips go from small flame outputs to extremely large flame outputs.** It is important to note that all of the center drill ports for the OX series are measured in millimeters on the specification charts.



OXU

OXU SERIES

This series is only offered in brass. The body style is hexagonal at the base, with a round tapered head. These tips are unique due to their optional mounting system. They can be purchased with a special ball joint mounted to the base of the frame which makes them very versatile for positioning.

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BURNER TIP SERIES SPECIFICATIONS CHARTS

The following section of charts give specific information concerning Carlisle Un-piloted Single Fire Burner **Tips**. **The summary below 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.

<p><i>CATALOG NUMBER</i> <i>BURNER NUMBER</i> <i>BODY SIZE</i> <i>FOCAL LENGTH</i> <i>OVERALL FLAME LENGTH</i> <i>BTU/HR</i></p>	<p>This represents Carlisle's number by which the burner tip can be ordered. This number represents a more universally recognized model number. In hex or round, this is a measurement of the diameter of the burner's body. This is the length of the focused smaller blue flame under normal operation. This is the length of the flame from the face of the tip to the very end. The approximate BTU/HR of the tip at 12" W.C. natural gas and oxygen mixture.</p>
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CATALOG NUMBER	BURNER NUMBER	MATERIAL	BODY SIZE	BODY LENGTH	CTR. DRILL	THREAD SIZE	FOCAL LENGTH	OVERALL FLAME	BTU / HR @ 12 W.C. NATURAL GAS & OXYGEN MIX
15A094-0000	AK-1	BRS	1/2" HEX	1 1/4"	#70	3/8"-32 F	3/16"	4 1/2"	1,300
15A095-0000	AK-1	SS	1/2" HEX	1 1/4"	#70	3/8"-32 F	3/16"	4 1/2"	1,300
15A096-0000	AK-2	BRS	1/2" HEX	1 1/4"	#65	3/8"-32 F	1/2"	6"	2,020
15A097-0000	AK-2	SS	1/2" HEX	1 1/4"	#65	3/8"-32 F	1/2"	6"	2,020
15A098-0000	AK-3	BRS	1/2" HEX	1 1/4"	#56	3/8"-32 F	9/16"	9"	3,580
15A099-0000	AK-3	SS	1/2" HEX	1 1/4"	#56	3/8"-32 F	9/16"	9"	3,580
15A100-0000	AK-4	BRS	1/2" HEX	1 1/4"	#53	3/8"-32 F	5/8"	9 3/4"	5,700
15A101-0000	AK-4	SS	1/2" HEX	1 1/4"	#53	3/8"-32 F	5/8"	9 3/4"	5,700
15A102-0000	AK-5	BRS	1/2" HEX	1 1/4"	#50	3/8"-32 F	3/4"	10 1/2"	7,930
15A103-0000	AK-5	SS	1/2" HEX	1 1/4"	#50	3/8"-32 F	3/4"	10 1/2"	7,930
15A104-0000	O-1	BRS	3/8" HEX	1"	#70	1/4"-28 F	3/16"	4 1/2"	1,300
15A105-0000	O-1	SS	3/8" HEX	1"	#70	1/4"-28 F	3/16"	4 1/2"	1,300
15A106-0000	O-2	BRS	3/8" HEX	1"	#65	1/4"-28 F	1/2"	6"	2,020
15A107-0000	O-2	SS	3/8" HEX	1"	#65	1/4"-28 F	1/2"	6"	2,020
15A108-0000	O-3	BRS	3/8" HEX	1"	#56	1/4"-28 F	9/16"	9"	3,580
15A109-0000	O-3	SS	3/8" HEX	1"	#56	1/4"-28 F	9/16"	9"	3,580
15A110-0000	O-4	BRS	3/8" HEX	1"	#53	1/4"-28 F	5/8"	9 3/4"	5,700
15A111-0000	O-4	SS	3/8" HEX	1"	#53	1/4"-28 F	5/8"	9 3/4"	5,700

Carlisle Machine Works, Inc.,
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CATALOG NUMBER	BURNER NUMBER	MATERIAL	BODY SIZE	BODY LENGTH	CTR. DRILL	THREAD SIZE	FOCAL LENGTH	OVERALL FLAME	BTU/HR @ 12 W.C. NATURAL GAS & OXYGEN MIX
15A112-0000	O-5	BRS	3/8" HEX	1"	#50	1/4"-28 F	3/4"	10 1/2"	7,930
15A113-0000	O-5	SS	3/8" HEX	1"	#50	1/4"-28 F	3/4"	10 1/2"	7,930
15A121-0000	OX-80	BRS	11/16" DIA	2 1/4"	1 MM	1/4" FPT	1/4"	4"	2,650
15A122-0000	OX-81	BRS	11/16" DIA	2 1/4"	1.5 MM	1/4" FPT	1/2"	5"	5,700
15A123-0000	OX-82	BRS	11/16" DIA	2 1/4"	2 MM	1/4" FPT	5/8"	6"	10,750
15A124-0000	OX-83	BRS	11/16" DIA	2 1/4"	2.5 MM	1/4" FPT	3/4"	7"	16,060
15A125-0000	OX-84	BRS	11/16" DIA	2 1/4"	3 MM	1/4" FPT	7/8"	8"	23,680
15A126-0000	OX-85	BRS	11/16" DIA	2 1/4"	3.5 MM	1/4" FPT	1"	9"	32,640
15A127-0000	OX-86	BRS	11/16" DIA	2 1/4"	4 MM	1/4" FPT	1 1/4"	10"	42,240
15A128-0000	OX-87	BRS	11/16" DIA	2 1/4"	4.5 MM	1/4" FPT	1 1/4"	11"	53,760
15A129-0000	OX-88	BRS	11/16" DIA	2 1/4"	5 MM	1/4" FPT	1 1/2"	12"	65,920
15A130-0000	OX-89	BRS	11/16" DIA	2 1/4"	5.5 MM	1/4" FPT	1 1/2"	13"	79,680
15A131-0000	OX-90	BRS	11/16" DIA	2 1/4"	6 MM	1/4" FPT	2"	14"	95,360
15A132-0000	OX-91	BRS	11/16" DIA	2 1/4"	6.5 MM	1/4" FPT	2 1/4"	15"	110,720
15A133-0000	OX-92	BRS	11/16" DIA	2 1/4"	7 MM	1/4" FPT	2 1/2"	16"	129,600
15A134-0000	OX-93	BRS	11/16" DIA	2 1/4"	7.5 MM	1/4" FPT	3"	17"	147,200
15A135-0000	OX-94	BRS	11/16" DIA	2 1/4"	8 MM	1/4" FPT	3 1/2"	18"	166,080
15A136-0000	OX-95	BRS	11/16" DIA	2 1/4"	8.5 MM	1/4" FPT	4"	18"	184,320
15A137-0000	OX-96	BRS	11/16" DIA	2 1/4"	9 MM	1/4" FPT	4 1/2"	19"	213,760
15A138-0000	OXU	BRS	1/2" HEX	2 5/16"	#55	1/8" MPT	5/8"	12"	4,410
15A138-1000	OXU W/ BALL & NUT	BRS	1/2" HEX	2 5/16"	#55	N/A	5/8"	12"	4,410

SPECIAL TIPS AND DESIGNS

Carlisle is always interested in offering special tips and designs to satisfy our customers needs. We have several special tips that we manufacture already. Specialty features range from altering a center drill port size of one of our **standard tips, to manufacturing directly from a customer's concept or drawing.**

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

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