

THE BATTERY CAP FLAME ARRESTOR FUNCTIONALITY HAS BEEN TESTED AND CERTIFIED BY THIS INDEPENDENT LAB.



22325 West State Route 51
Genoa, Ohio 43430
PH: 419 855 3389

Battery Flame Retardant Venting Report

Job No.	Date Received	Condition	Acquisition Plan
L-1928	4/15/13	Good	A

Requested by:
Chad Doyle
Doyle Shamrock Industries
1440 Holloway Road
Holland, OH 43528

Test Specification	Test Battery (s) used
SAE J1495, August 2012	1928 #1

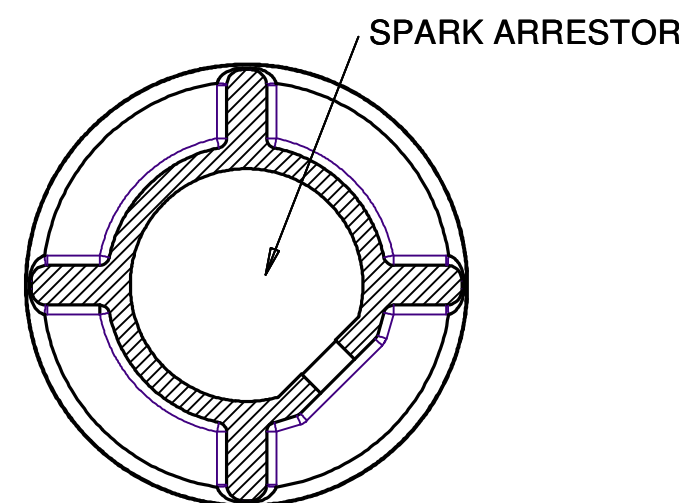
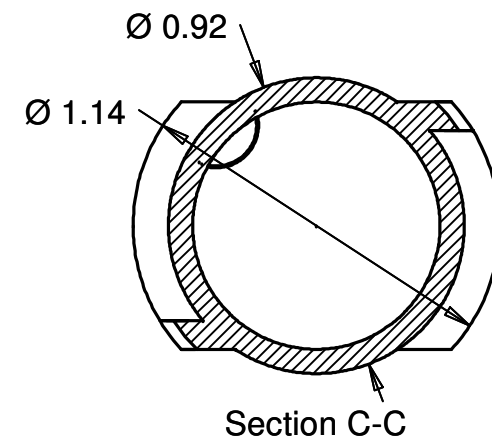
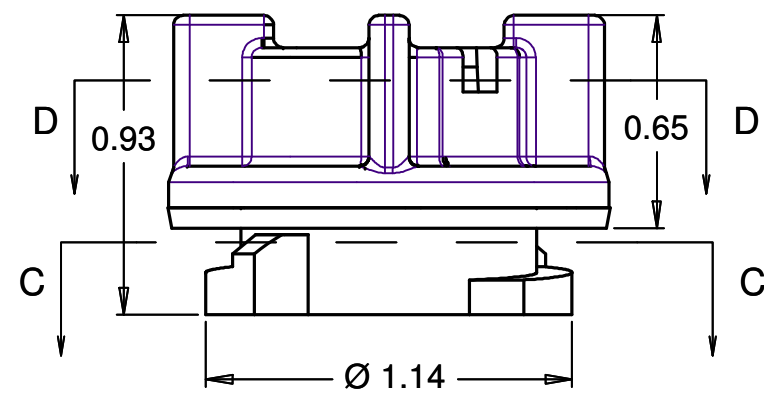
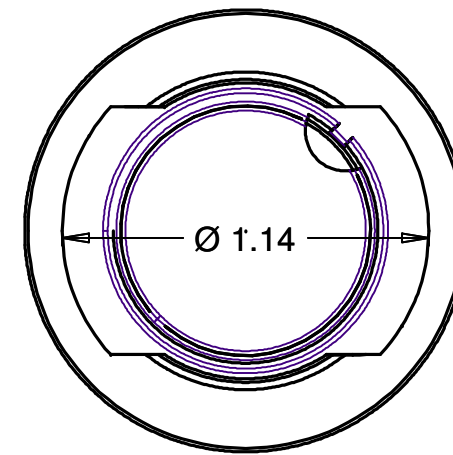
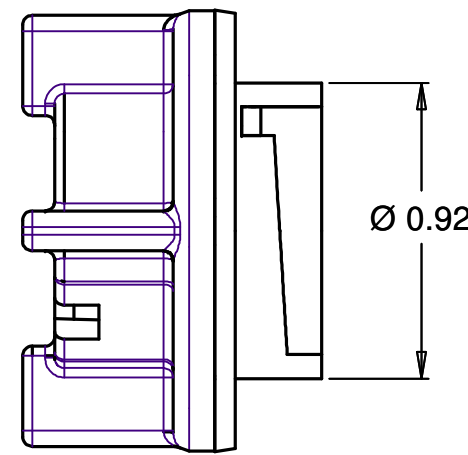
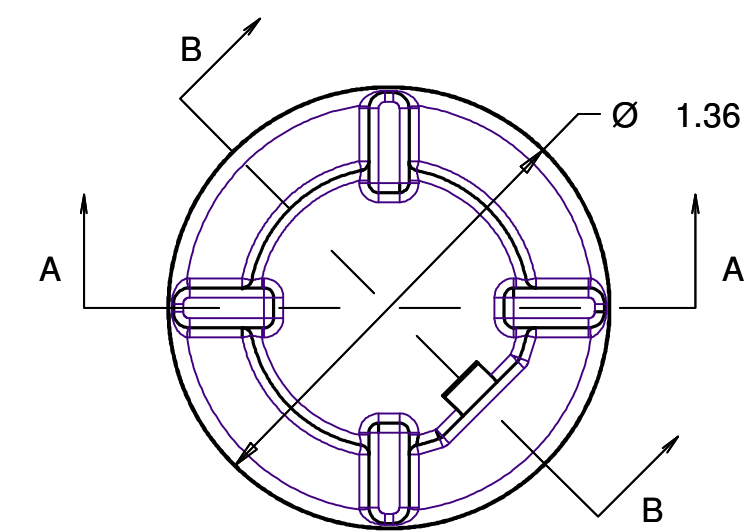
Vent	Start Date	Start Time	End Date	End Time
Pre-Conditioning	4/17/13	10:00 AM	4/19/13	9:15 AM

Batt No.	P/N	Mfr.	Vent #	5 minute Chg amps	Spark 1	Spark 2	Spark 3	Spark 4	Spark 5	Spark 6	Date	Time
1	Doyle Yellow	Shamrock	Vent 1	25.00	PP	PP	PP	PP	PP	PP	4/19/13	11:12 AM
1	Doyle Yellow	Shamrock	Vent 2	25.00	PP	PP	PP	PP	PP	PP	4/19/13	11:20 AM
1	Doyle Yellow	Shamrock	Vent 3	25.00	PP	PP	PP	PP	PP	PP	4/19/13	11:24 AM
1	Doyle Yellow	Shamrock	Vent 4	25.00	PP	PP	PP	PP	PP	PP	4/19/13	11:26 AM

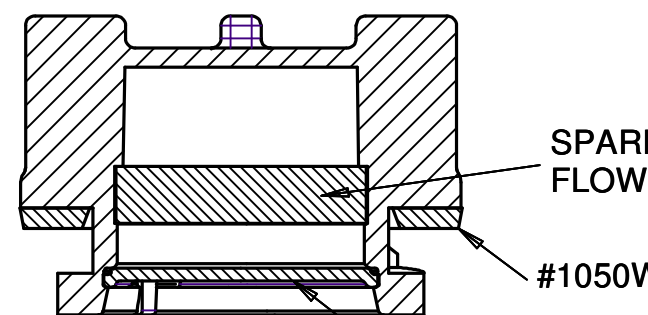
P = Pass PP = Pass/Pop

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Prepared by: Joseph Badger
President 4/19/13
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Section D-D

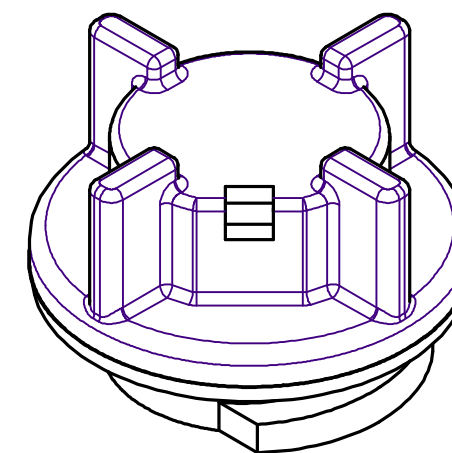


SPARK ARRESTOR
FLOW RATING: 15.0-22.9 LPM @ 10" WATER PRESSURE

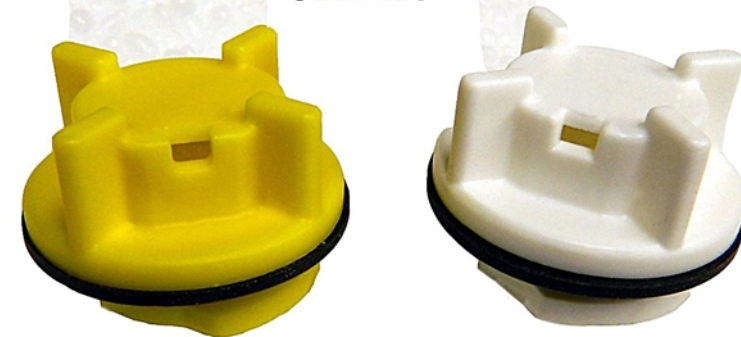
#1050W BATTERY CAP WASHER

Section A-A

BAFFLE DISK



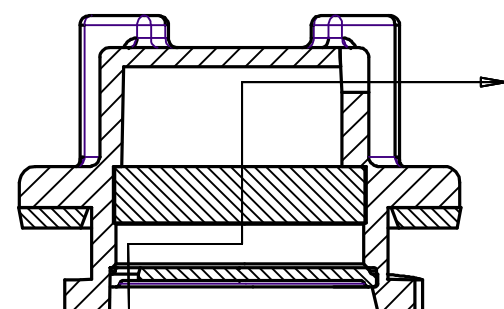
Battery Cap #1070



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FLOW DIRECTION OF BATTERY GASES VENTING THROUGH BATTERY CAP TO ATMOSPHERE

Section B-B



A	REMOVED INTERNAL RIBS, ADDED ROUND SPARK ARRESTOR PKT.	DW	2/27/2013
REVISION	DESCRIPTION	BY	DATE
DRAWN	DATE	DOYLE MANUFACTURING INC. MAKING PLASTIC MOLDS SINCE 1975.	
D. WATERS	5/2/11	1440 HOLLOWAY ROAD QUALITY CERTIFIED HOLLAND, OHIO 43528 ISO/TS16949:2002	
TOLERANCE UNLESS SPECIFIED .X = +/- .060 .XX = +/- .030		XXX = +/- .010 XXXX = +/- .005	
CUSTOMER	PART NO.	PART NAME	
SHAMROCK	1070	#1070 BATTERY VENT CAP	
MATERIAL	SHRINKAGE	JOB #	SHT
PP		2003-45	1
COLOR	UNITS		OF
	INCHES		1