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ENGINE			
Manufacturer	Pro Racing Design Co Ltd	Category	TaG 125 & Restricted
Make	PRD	Homologation Period	2013 -
Model, Type	GALAXY	Pages	10

This homologation sheet reproduces description, illustrations and dimensions of the engine at the time of the AKA Homologation. All motors must be manufactured within these dimensions

ENGINE PHOTO - DRIVE SIDE	ENGINE PHOTO - OPPOSITE SIDE
	
SIGNATURE AND STAMP OF APPLICANT	SIGNATURE AND STAMP OF AKA

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PHOTO OF THE ENGINE FROM THE BACK	PHOTO OF THE ENGINE FROM THE FRONT
	
PHOTO OF THE ENGINE FROM ABOVE	PHOTO OF THE ENGINE FROM BELOW
	

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TECHNICAL INFORMATION			
A - Characteristics		***C - Materials***	
Cylinder volume	123.15cc	Cylinder wall	Iron
Bore	53.90	Cylinder	Alloy
Theoretical max. bore	54.4	**Cylinder head**	Alloy
Stroke	54	Crankcase / sump	Alloy
Cooling system	Water	**Connecting rod**	Steel
Air admission system	Reed Valve		
N° of carburation systems	1	***D - Tolerances***	
N° of transfer ports in the cylinder	3	Opening angles (+/- 3 degrees)	
N° of exhaust ports	3	Combustion chamber volume [+/- 0.5cc]	
Shape of combustion chamber	Spherical	Angles [+/- 2 degrees]	
Volume of the combustion chamber	11cc + 0.5 - 0.00	Stroke [+/- 0.1mm]	
Length between of the axis of connecting rod	100mm	Length between axis of connecting rod [+/-0.1mm]	
Ignition make	PVL	***Dimensions on machined surfaces***	
Ignition model	Galaxy	< 25mm [+/- 0.5mm]	
		25-60mm [+/- 0.8mm]	
B – Opening angles		> 60mm [+/- 1.5mm]	
Boost	127.5	***Dimensions on rough cast surface***	
Transfer	126	< 25mm [+/- 1mm]	
Exhaust	191	25-60mm [+/- 1.5mm]	
Exhaust Ears	184	> 60mm [+/- 3mm]	

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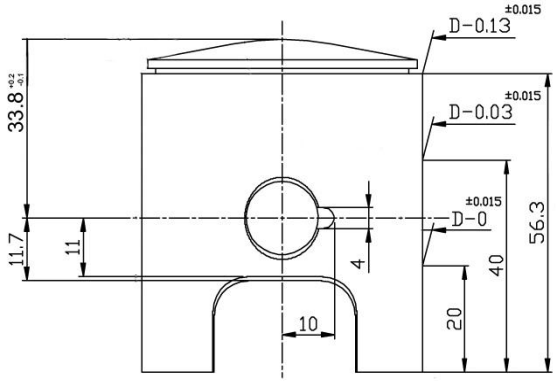
TECHNICAL INFORMATION

E – piston	
N° of piston rings	1
Overall length	60.2
Radius of crown	97.5
Crown to pin	33.8
Skirt to pin	26.7
E – Piston Pin	
material	IRON
Length	44mm
Inside diameter	10mm
Outside diameter	14mm

EXHAUST AND INLET TIMING READING LINES

NOTE : Indicate in the diagram the type of ring on the piston



CARBURETOR

G - Gaskets	
Barrel gasket material	PAPER
Minimum thickness	0.05
Maximum thickness	OPEN
Cylinder head gasket material	Copper + O Ring
Minimum thickness	0.05
Maximum thickness	OPEN

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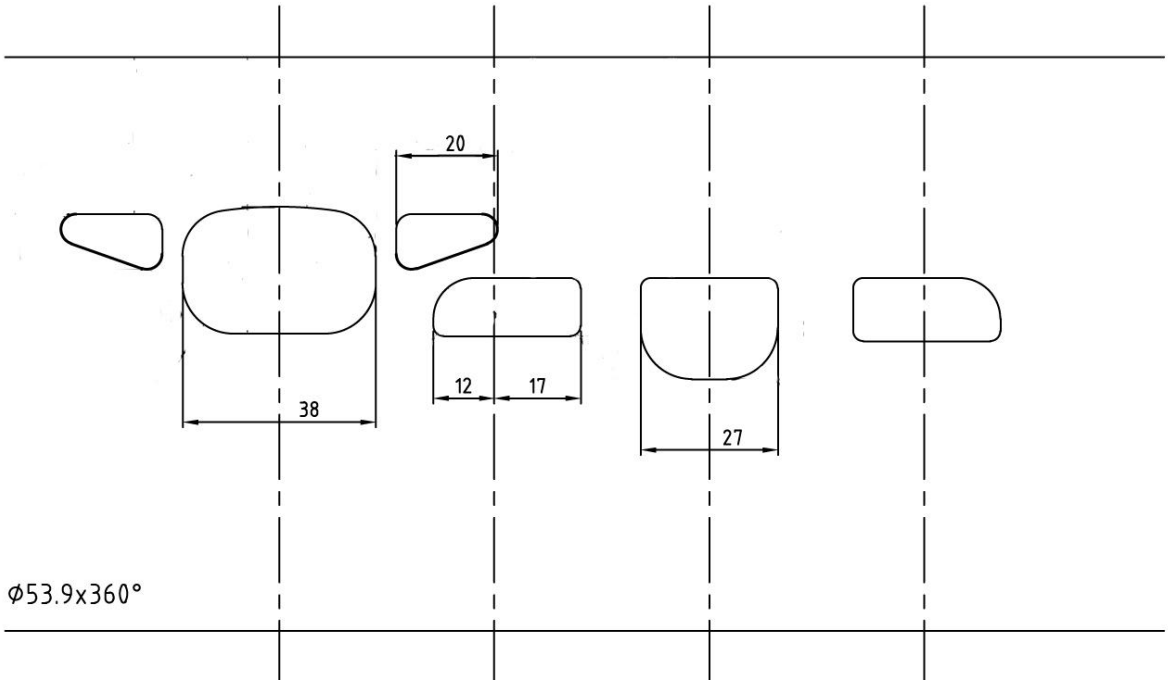
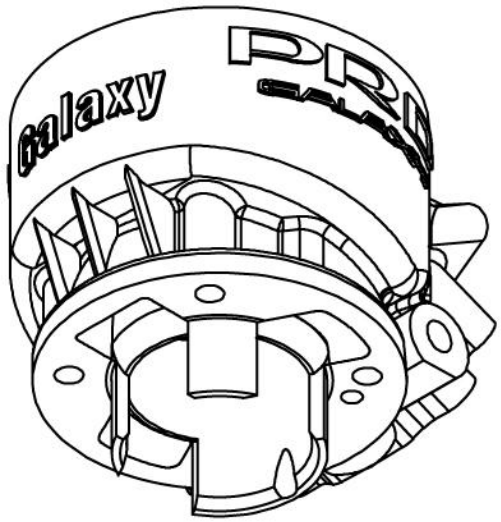
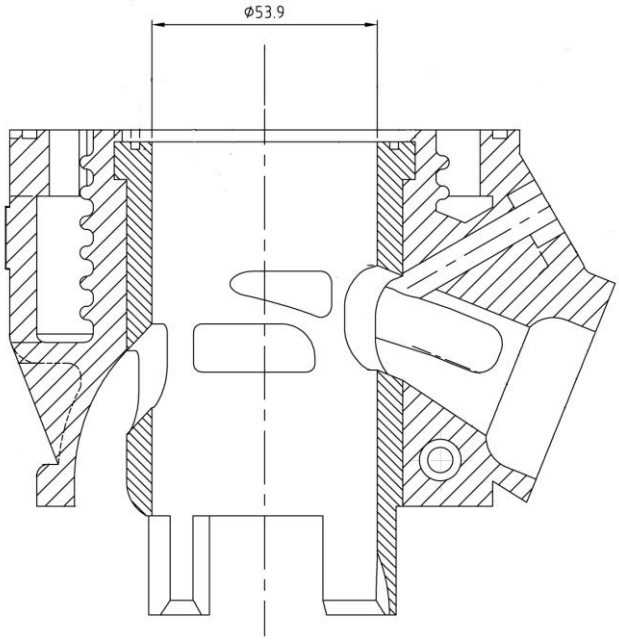
DRAWING OF CYLINDER DEVELOPMENT



DRAWING OF THE BASE OF THE CYLINDER



DRAWING OF CYLINDER SECTION



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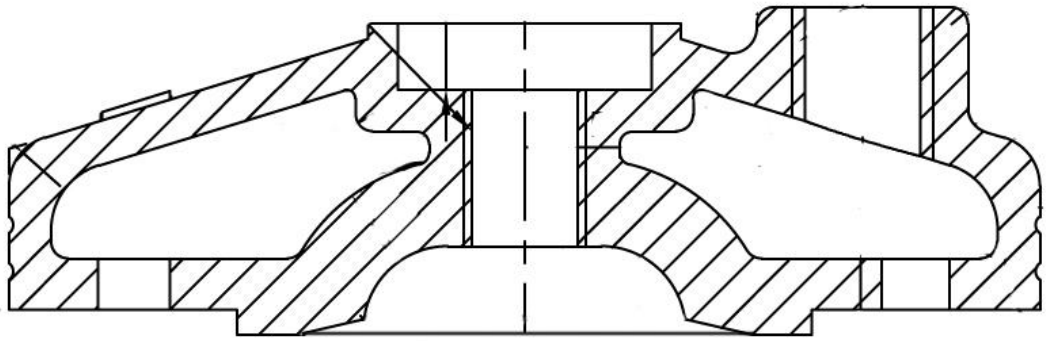
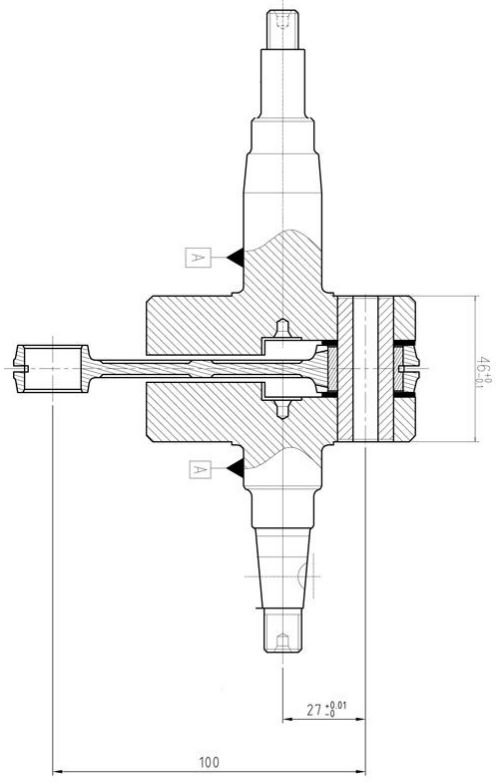
DRAWING OF THE COMBUSTION CHAMBER AND CYLINDERHEAD



DRAWING OF THE CRANKSHAFT



DRAWING OF THE INTERIOR OF THE SUMP

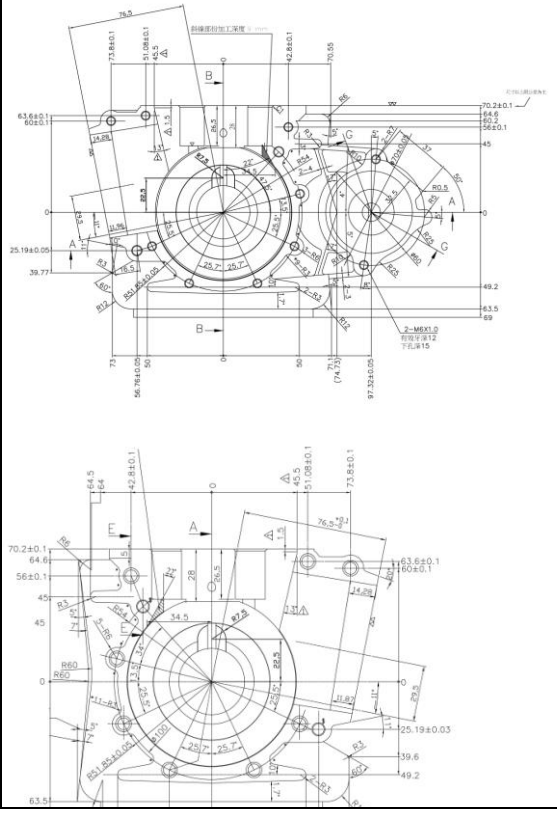


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PHOTO OF THE BASE OF THE CYLINDER	PHOTO OF THE COMBUSTION CHAMBER
	
PHOTO OF CRANKCASE – GASKET FACE	PHOTO OF CRANKCASE – INTERIOR (HORIZONTAL VIEW)
	

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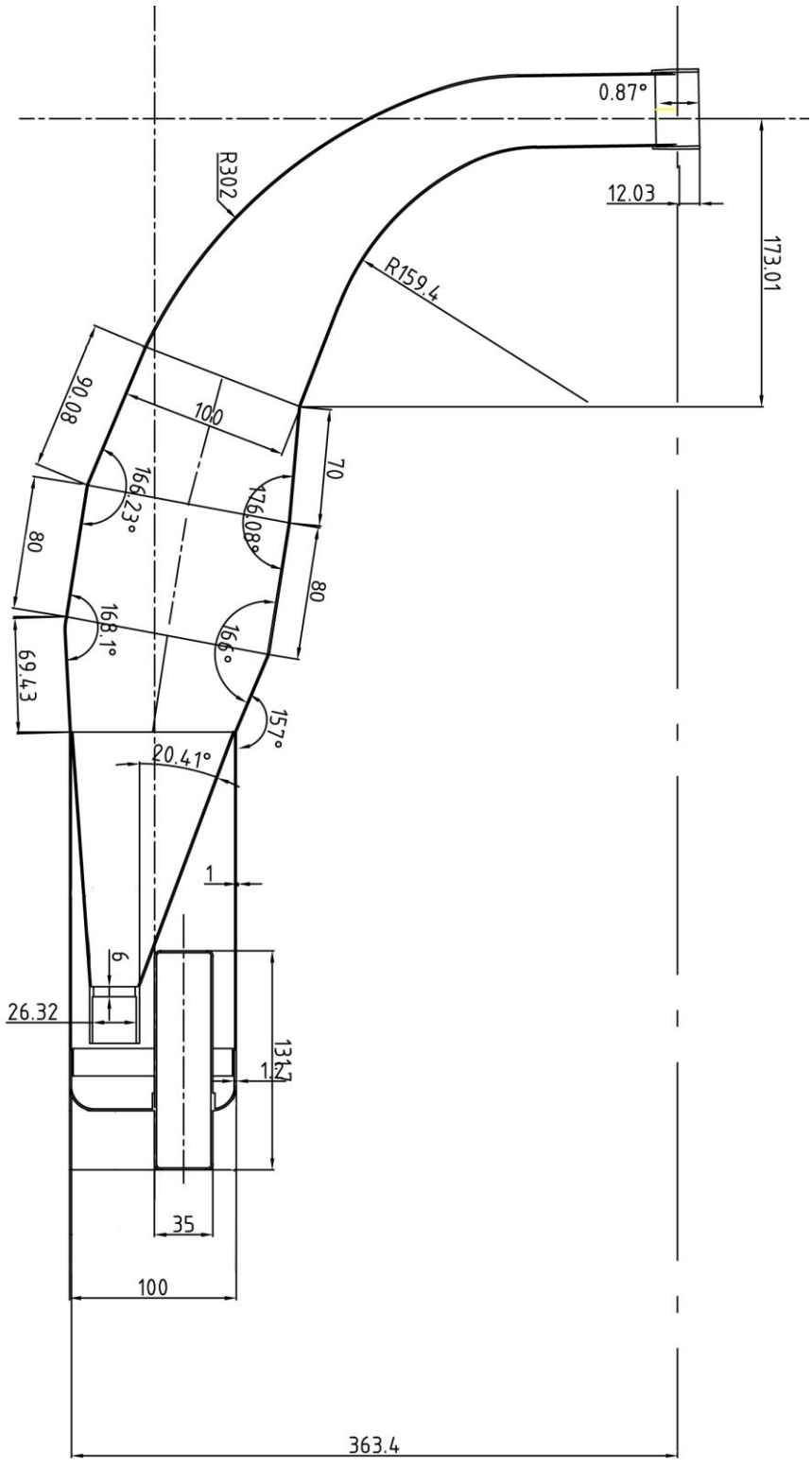
DRAWING OF SILENCER AND COMPONENTS



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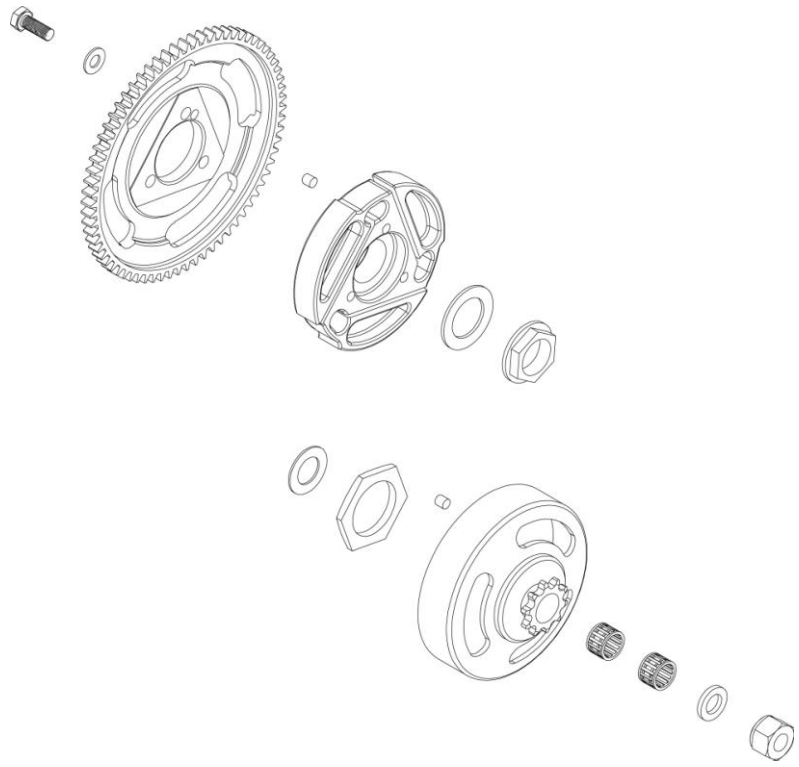
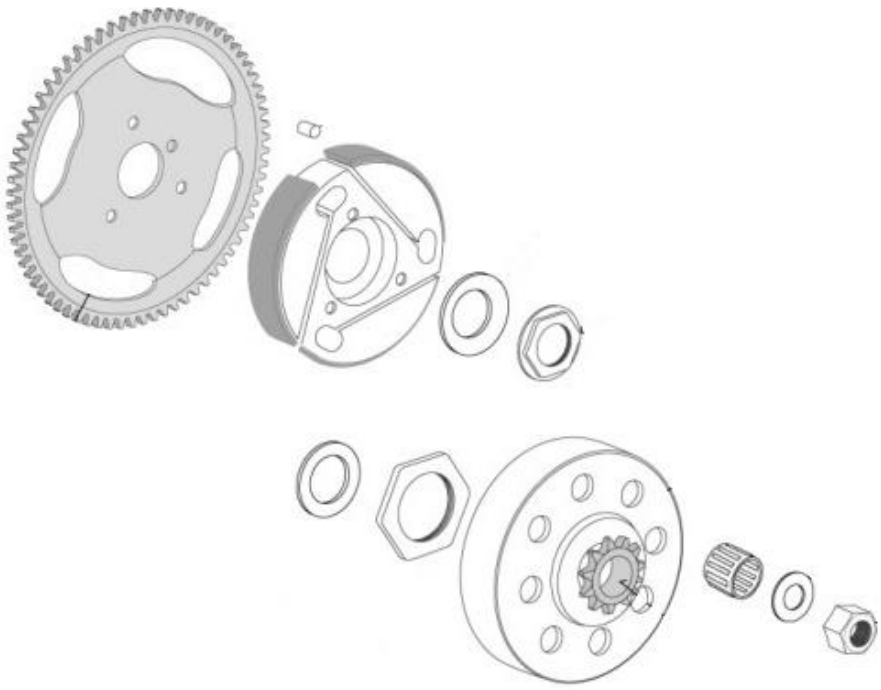
CLUTCH DESCRIPTION AND SKETCH OF PARTS



METAL CLUTCH



LINED CLTUCH

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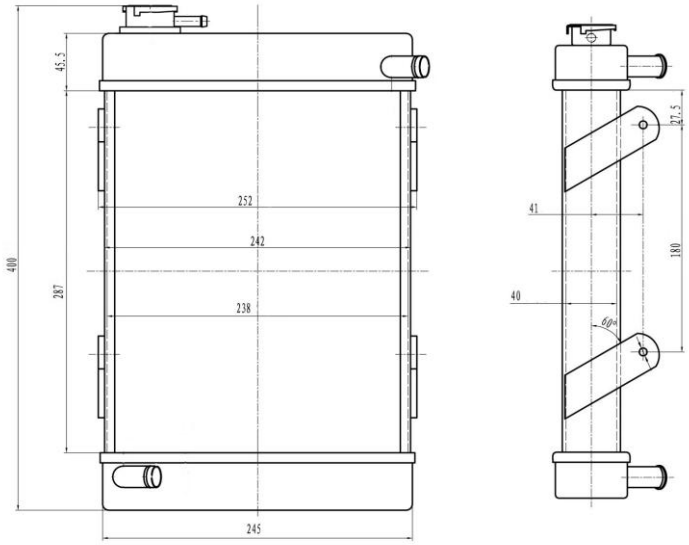
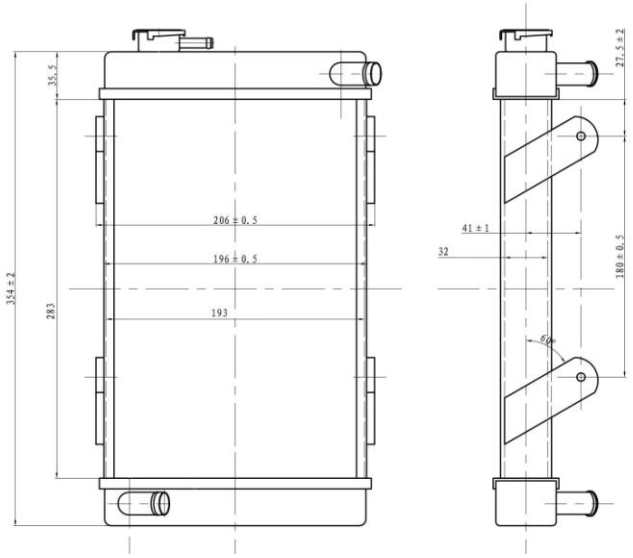
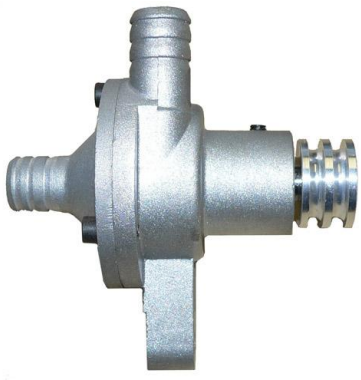
RADIATOR DESCRIPTION AND SKETCH OF PARTS



MEDIUM



SMALL



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INLET PORT CHORD WIDTH **Either A1 or A2**	
The maximum chord width is Formula for A1 = D x π x 0.223 + B	The maximum chord width is Formula for A2 = D x π x 0.223
EXHAUST PORT CHORD WIDTH **Either C1 or C2**	
Formula for C1 = D x π x 0.223 + E	Formula for C2 = D x π x 0.223