

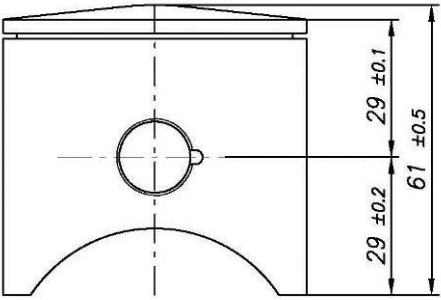
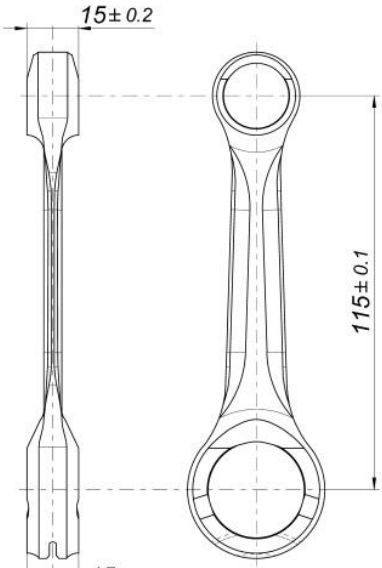
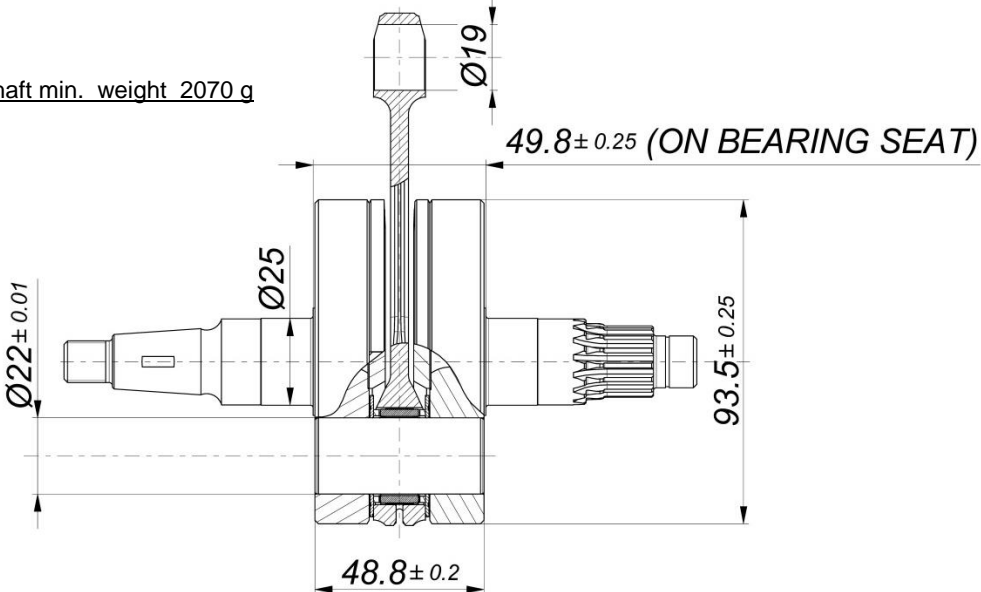


USA SUPER SHIFTER 175CC

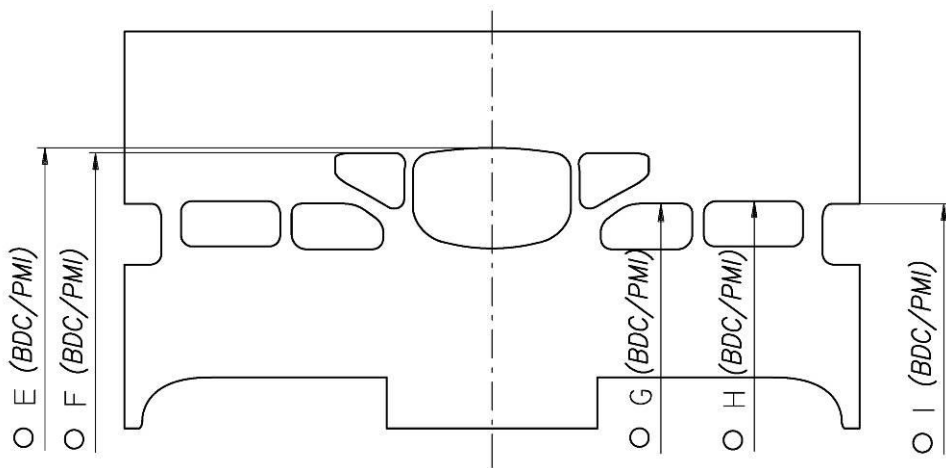


FEATURES

		Cylinder volume	174.46 cm ³ (Max 176.6 cm³)
		Bore	63.90 mm
		Max. theoretical bore	64.26 mm
		Stroke	54.40 mm
		Distance between conrod centers	115 mm
		Cooling system	Water
		Inlet system	Reed valve
		Number of piston rings	1
Big end conrod bearing diam.	D. Ø22	Inlet / exhaust ports number	5 / 3
Crankshaft bearing diam.	25x52x15 (2Pc.) 15x35x11 (1Pc.)	Combustion chamber shape	Spherical
PVL ignition	Analogic "458"	Small end conrod bearing diam.	15x19x20

DESCRIPTION OF THE MATERIAL		PISTON
Conrod material	Steel	 <p>Piston min. weight (ring incl.) 155 g</p>
Crankshaft material	Steel	
Gearbox shafts material	Steel	
Gears material	Steel	
Starter ring material	Steel or Aluminum	
Head material	Aluminum	DISTANCE BETWEEN CONROD CENTERS
Cylinder material	Aluminum	 <p>Min. Weight 120 g</p>
Liner material	Iron	
Crankcase material	Aluminum	
Piston material	Aluminum	
Piston rings material	Iron	
Exhaust muffler material	Sheet-steel	
CRANKSHAFT		
<p>Complete crankshaft min. weight 2070 g</p> 		

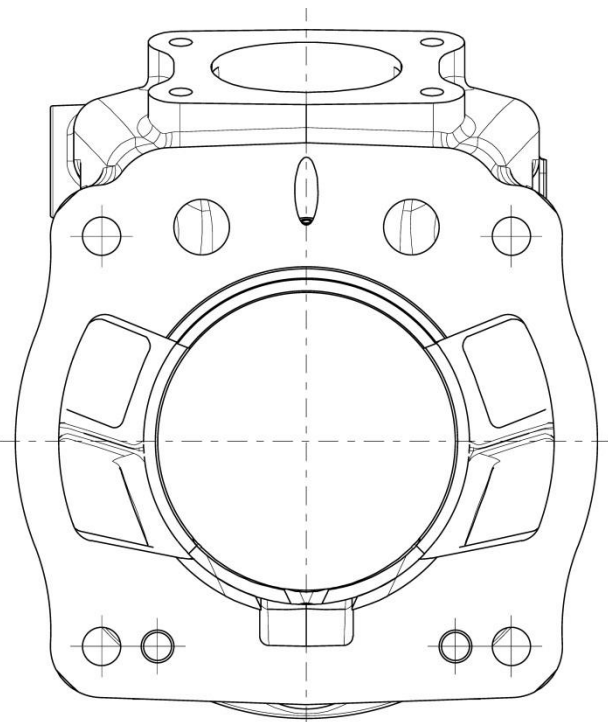
CYLINDER DEVELOPMENT



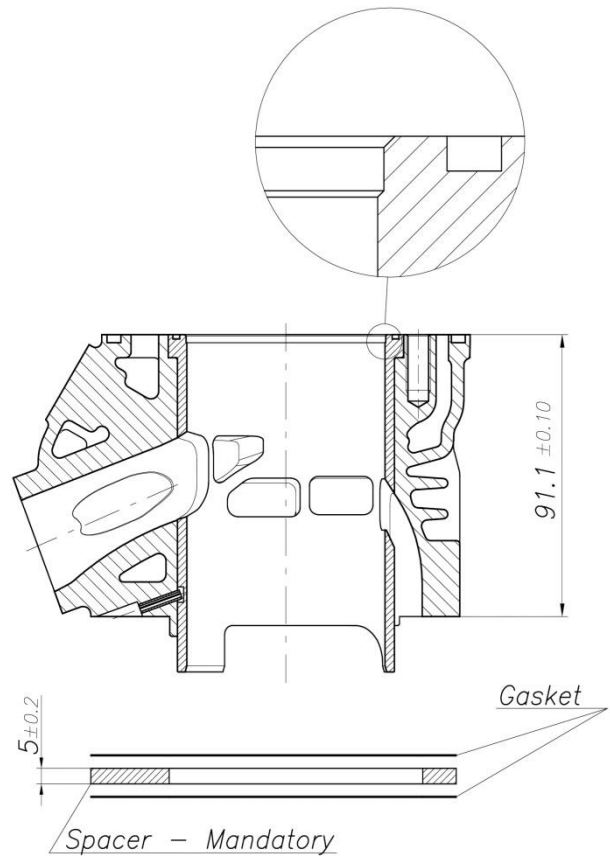
E	$195^\circ \pm 2^\circ$
F	$189^\circ \pm 2^\circ$
G	$122.5^\circ \pm 2^\circ$
H	$125.5^\circ \pm 2^\circ$
I	$121^\circ \pm 3^\circ$

○ ANGULAR READING BY INSERTING A 0.2x5mm GAUGE

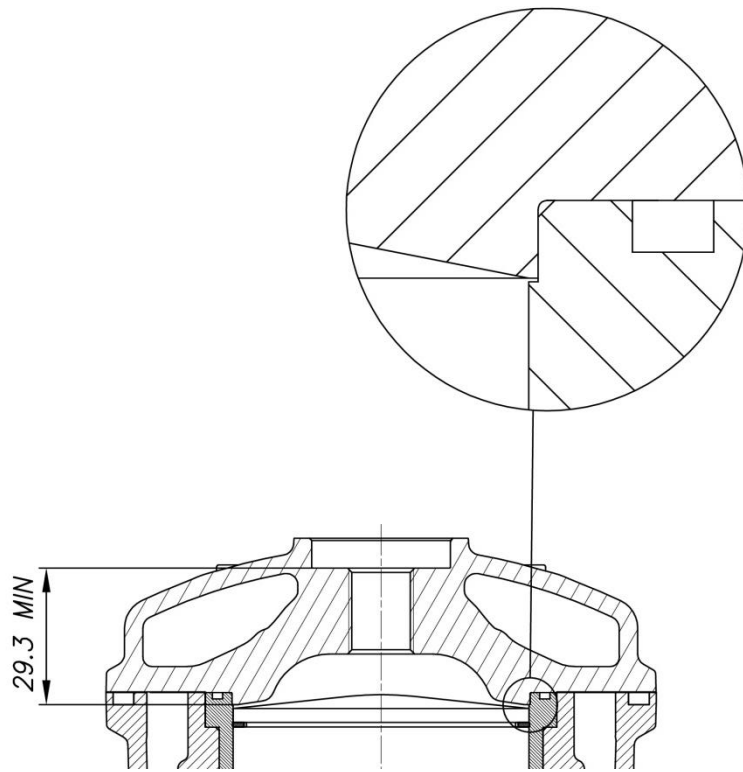
CYLINDER BASE VIEW



CYLINDER CROSS SECTION VIEW

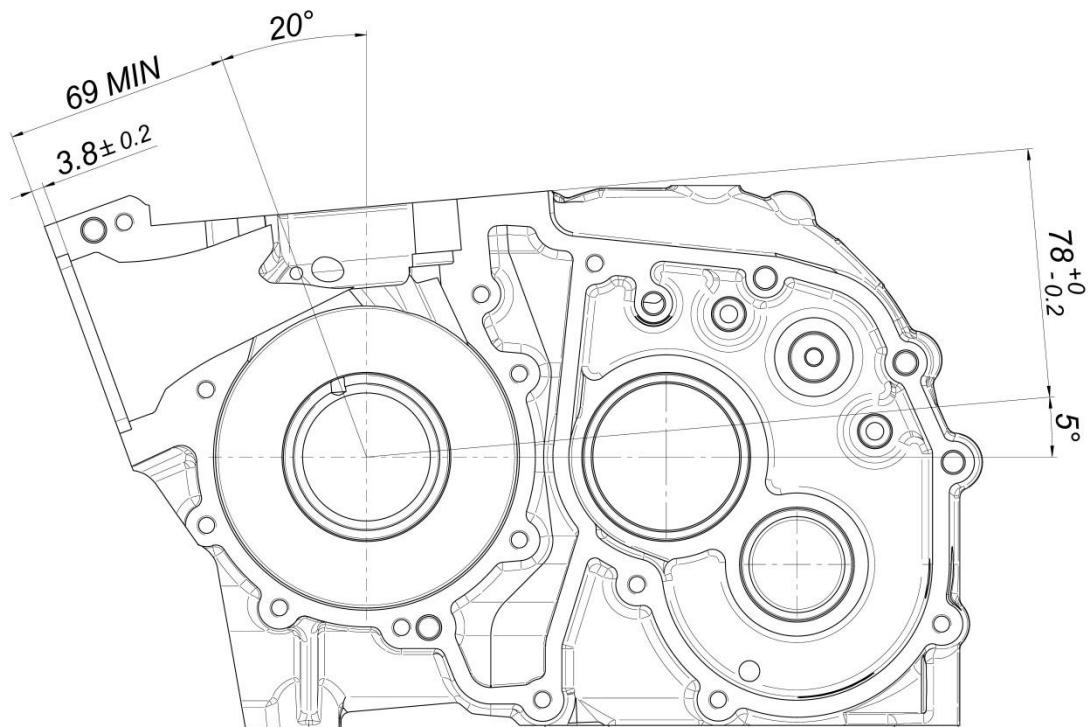


COMBUSTION CHAMBER VIEW

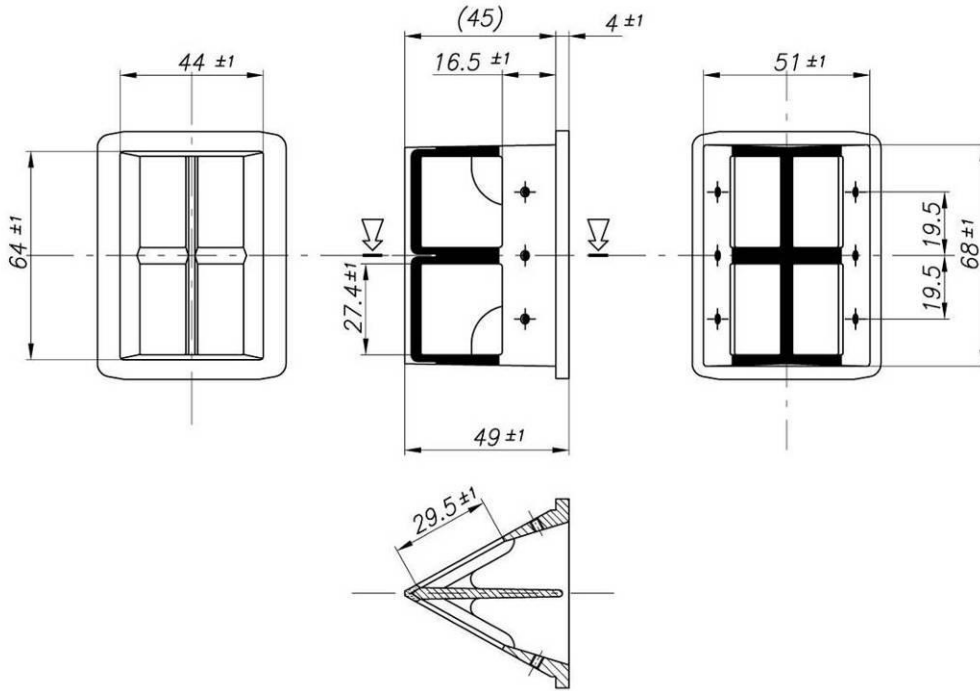


SQUISH MIN.= 0.039" (1.0 mm)
(measured with 0.0625" (1/16") / Ø1.6mm solder)

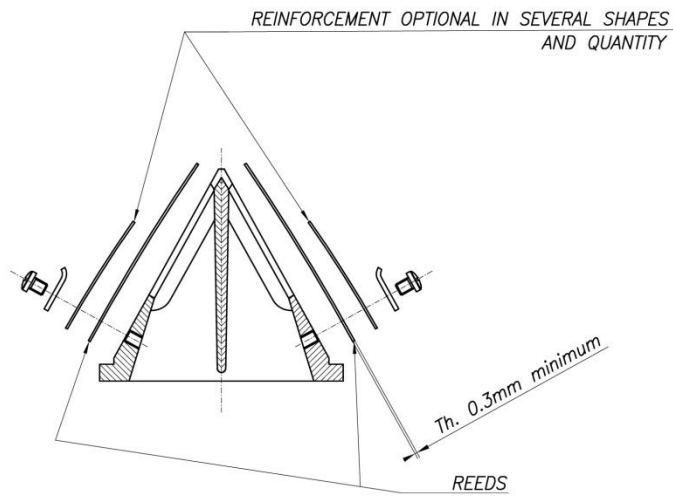
CRANKCASE INSIDE VIEW



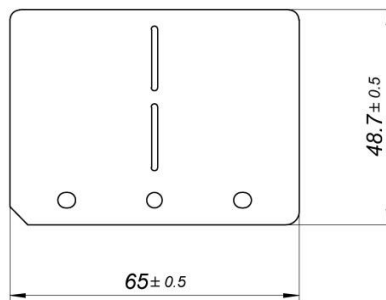
REED VALVE



ASSEMBLY OF REED VALVE

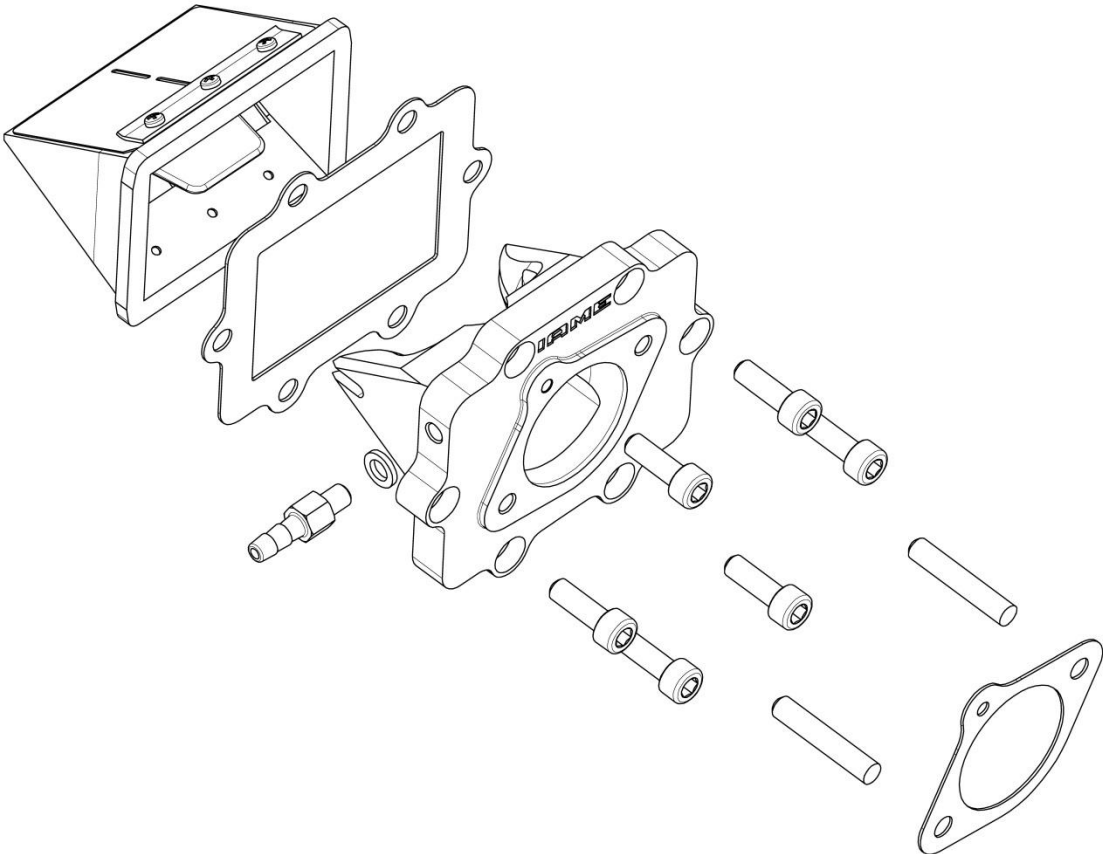


REEDS

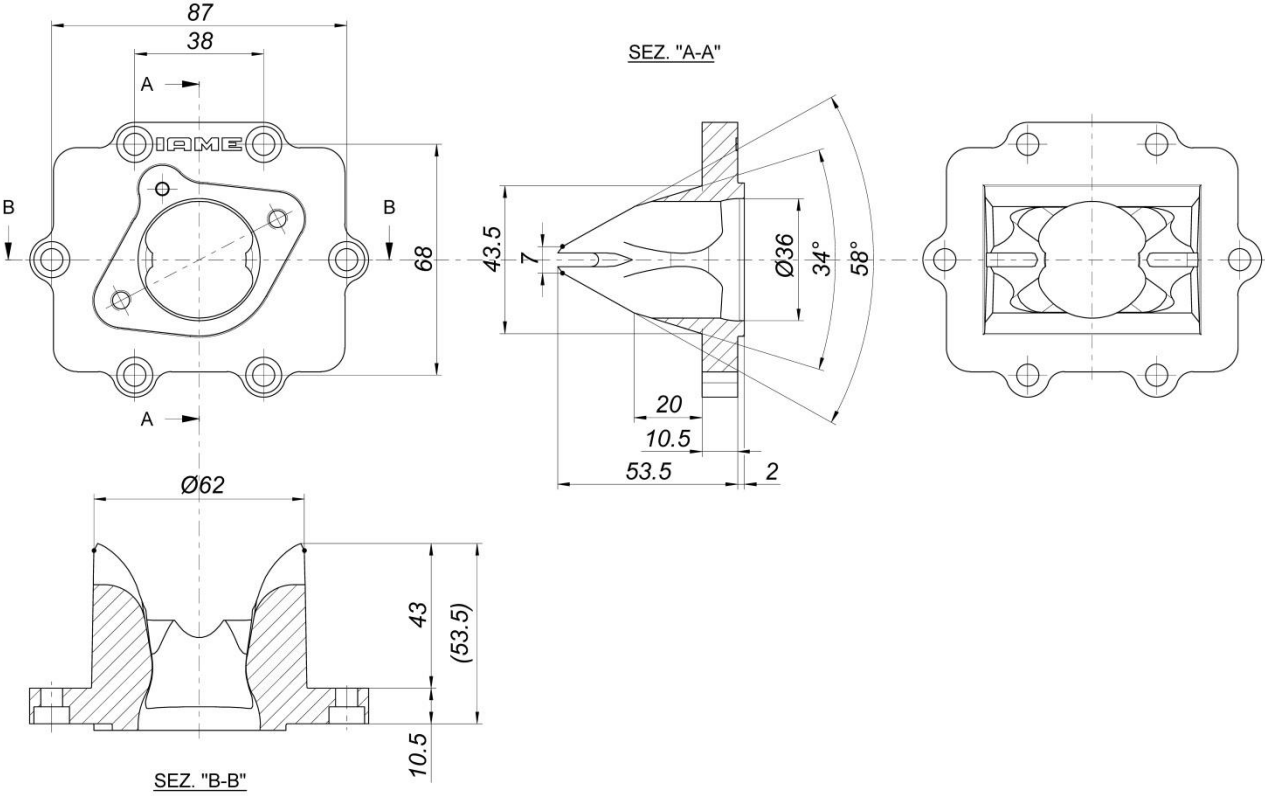


ONLY GENUINE "IAME" CARBON FIBER REEDS ARE PERMITTED

EXPLODED DRAWING - INLET SYSTEM



REED VALVE COVER - INLET SYSTEM



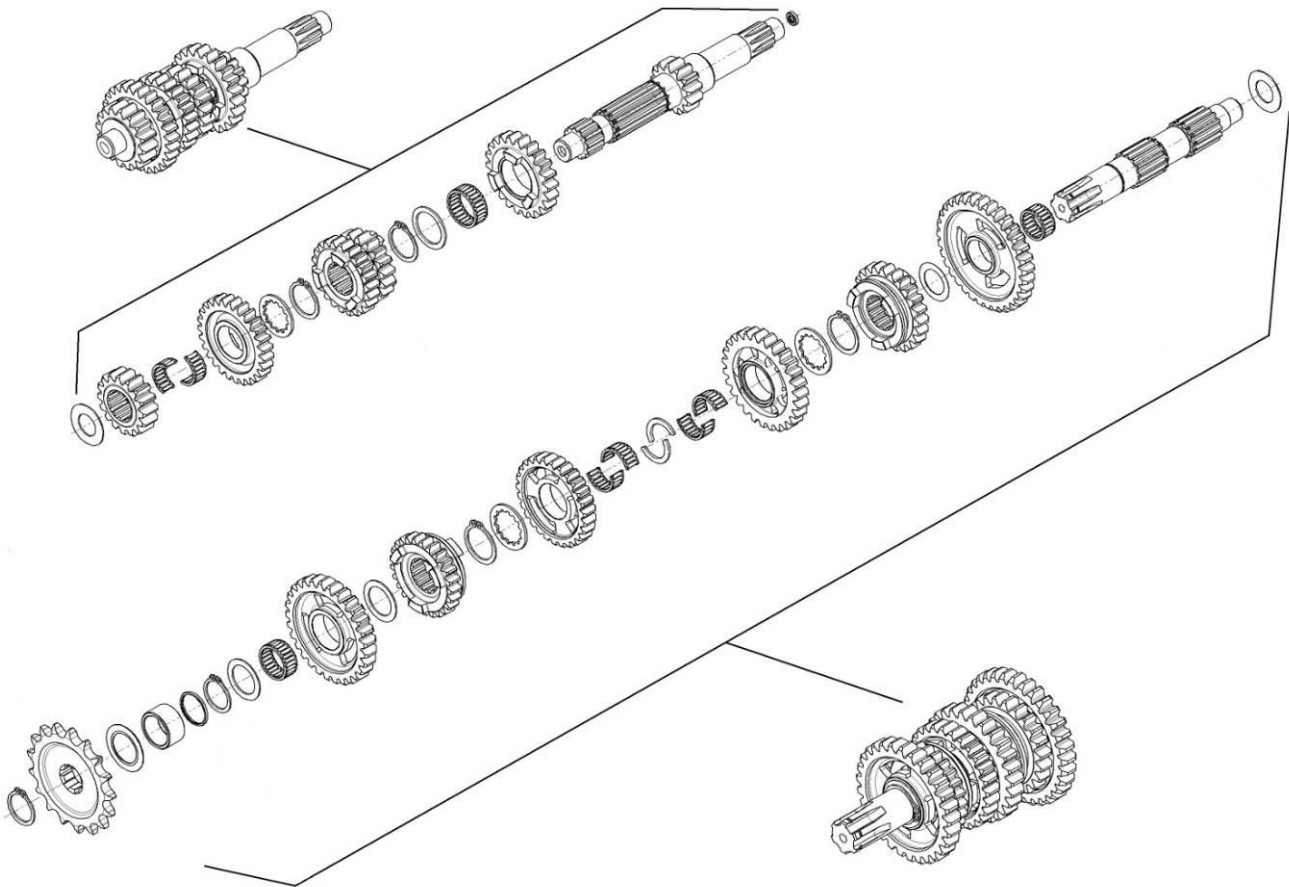
GEARBOX

Primary coupling - 19 / 75

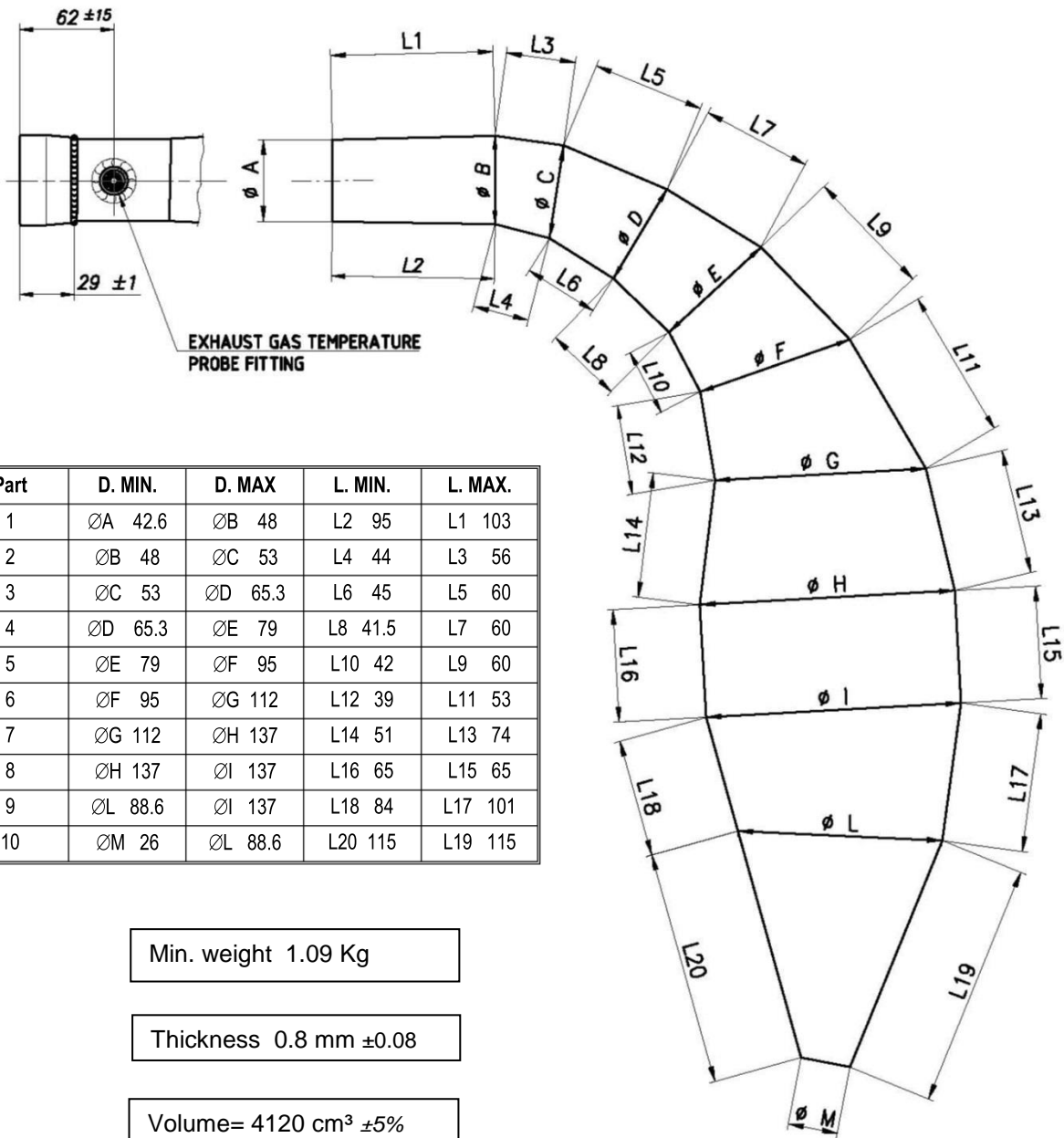
Gearbox ratios

Gear	Primary shaft	Secondary shaft	Reading of values obtained after three engine revs
1 st / 1 ^{ère}	<u>13</u>	<u>33</u>	<u>107.78°</u>
2 nd / 2 ^e	<u>16</u>	<u>29</u>	<u>150.95°</u>
3 rd / 3 ^e	<u>18</u>	<u>27</u>	<u>182.40°</u>
4 th / 4 ^e	<u>22</u>	<u>27</u>	<u>222.93°</u>
5 th / 5 ^e	<u>22</u>	<u>23</u>	<u>261.70°</u>
6 th / 6 ^e	<u>27</u>	<u>25</u>	<u>295.49°</u>

EXPLODED DRAWING OF THE GEARS, MAINSHAFT AND SECONDARY SHAFT



EXHAUST VIEW, PHOTO, MARKING AND DIMENSIONS



Min. weight 1.09 Kg

Thickness 0.8 mm ±0.08

Volume= 4120 cm³ ±5%

EXPLODED DRAWING OF THE CLUTCH ASSEMBLY

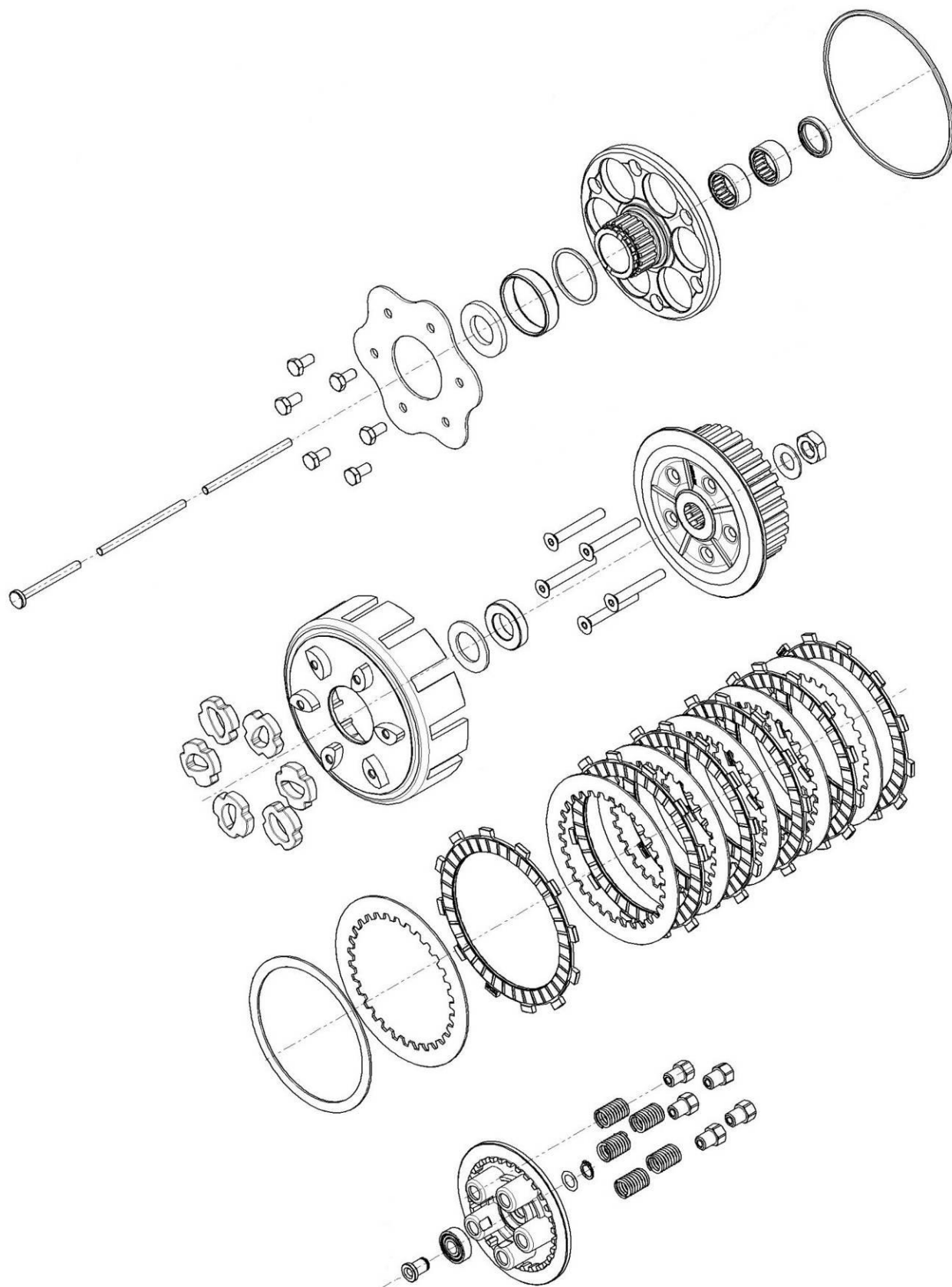
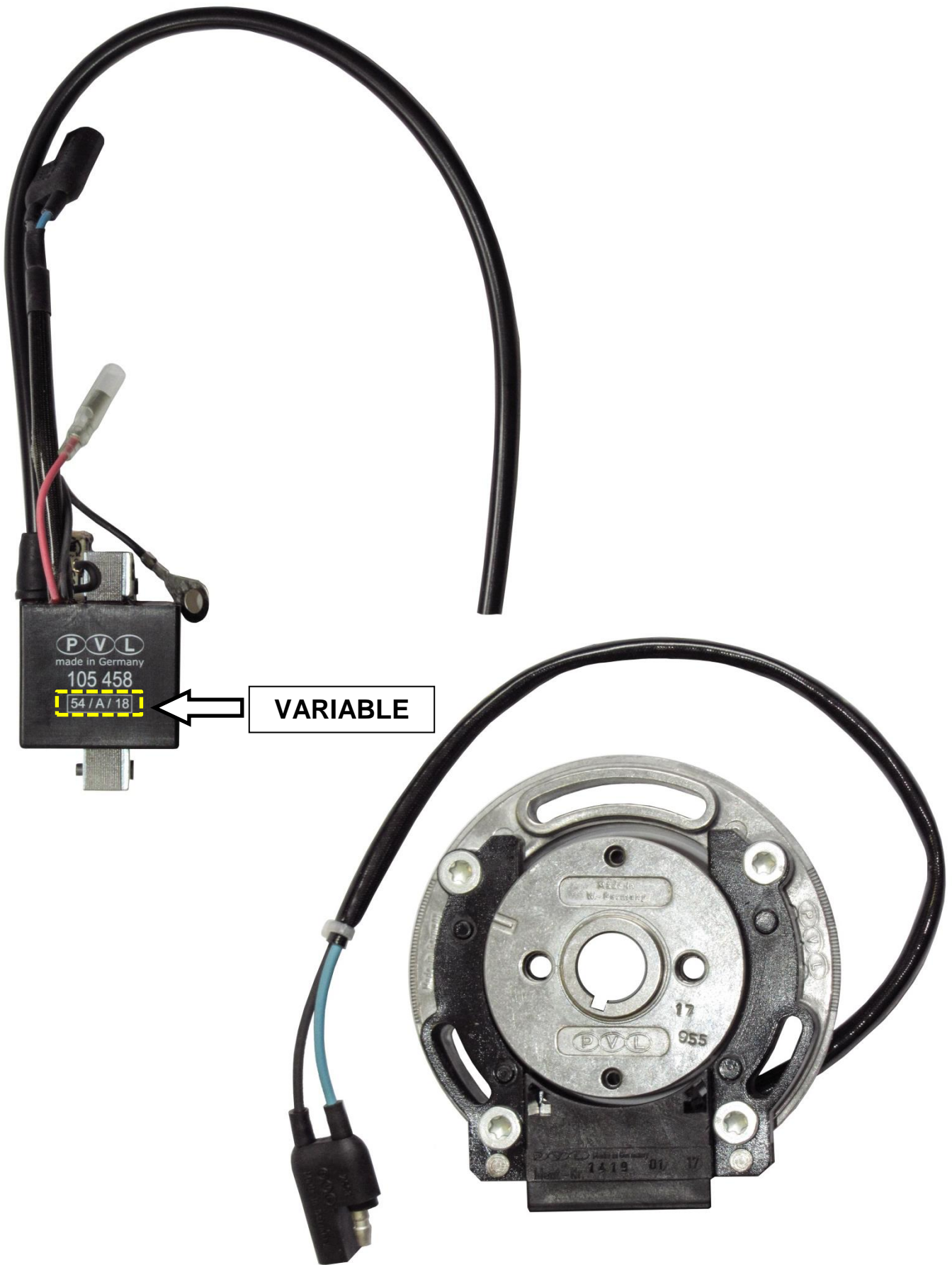
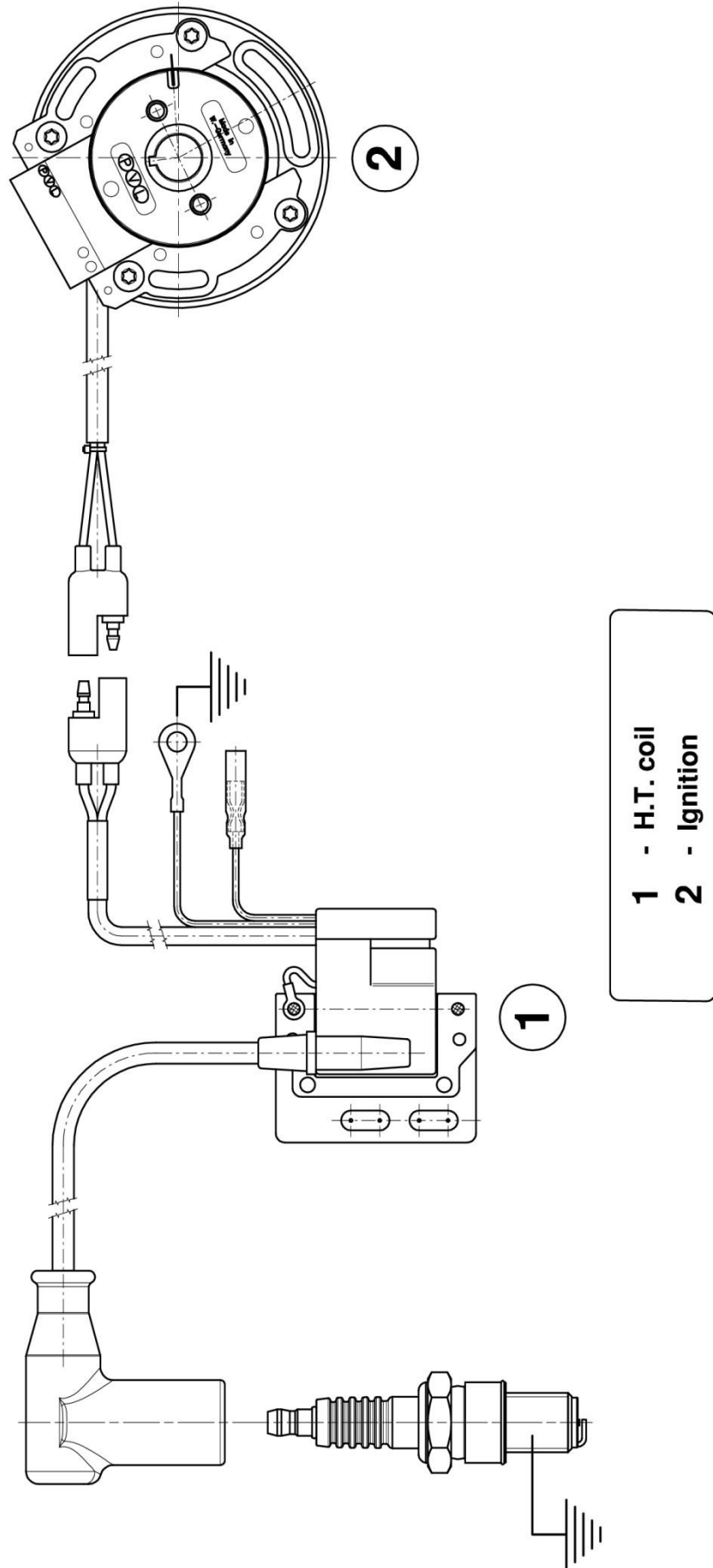


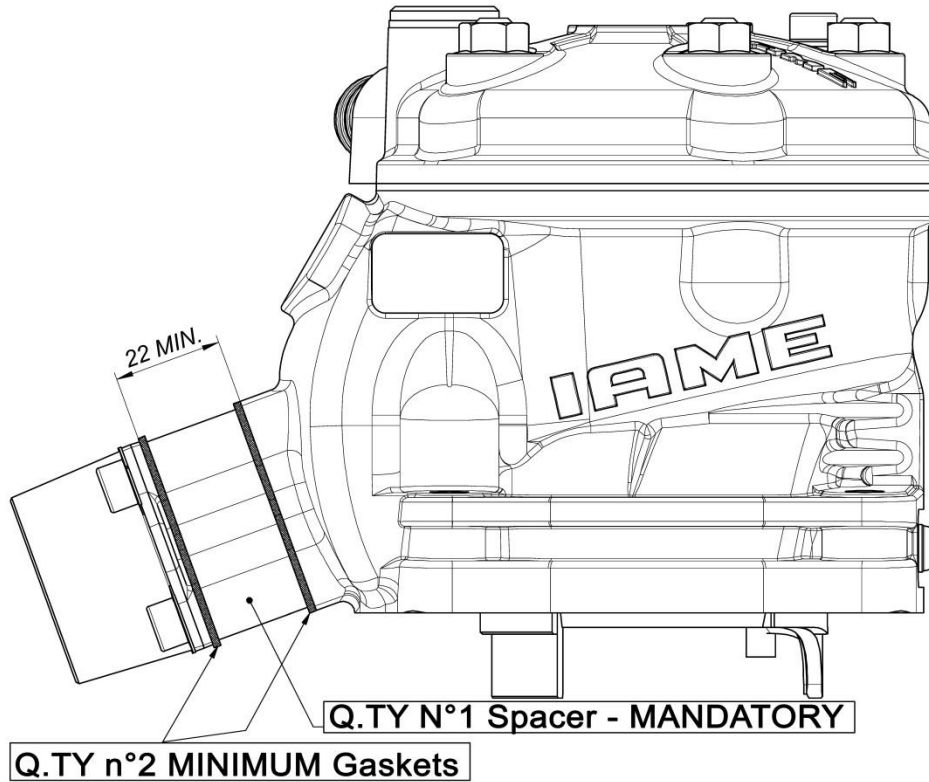
PHOTO OF PVL ANALOGICAL "458" IGNITION



WIRING DIAGRAM (PVL ANALOGICAL "458" IGNITION)



MINIMUM DISTANCE BETWEEN EXHAUST MANIFOLD AND CYLINDER



EXHAUST MANIFOLD AND SPACER VIEW, MARKING AND DIMENSIONS

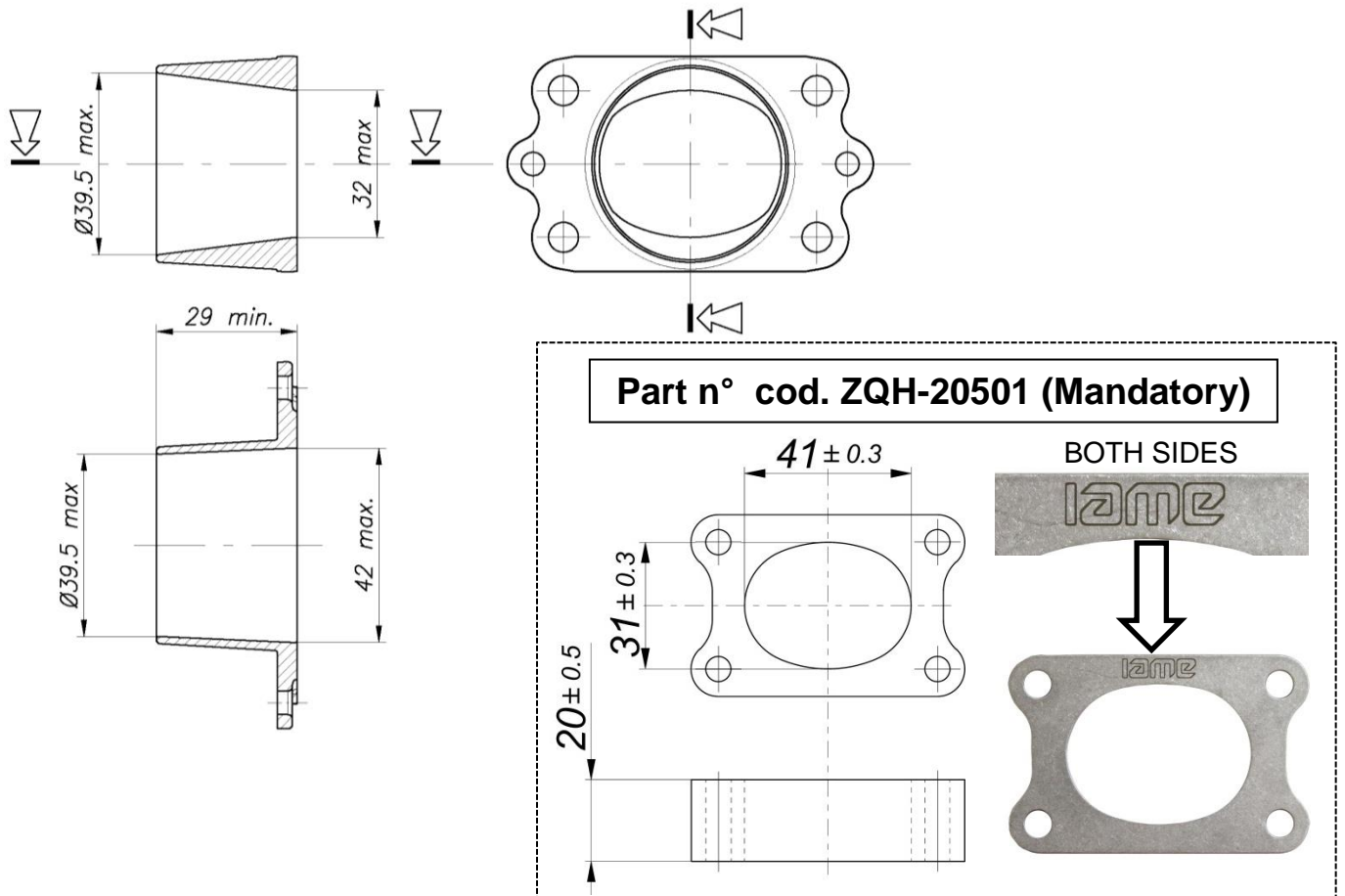
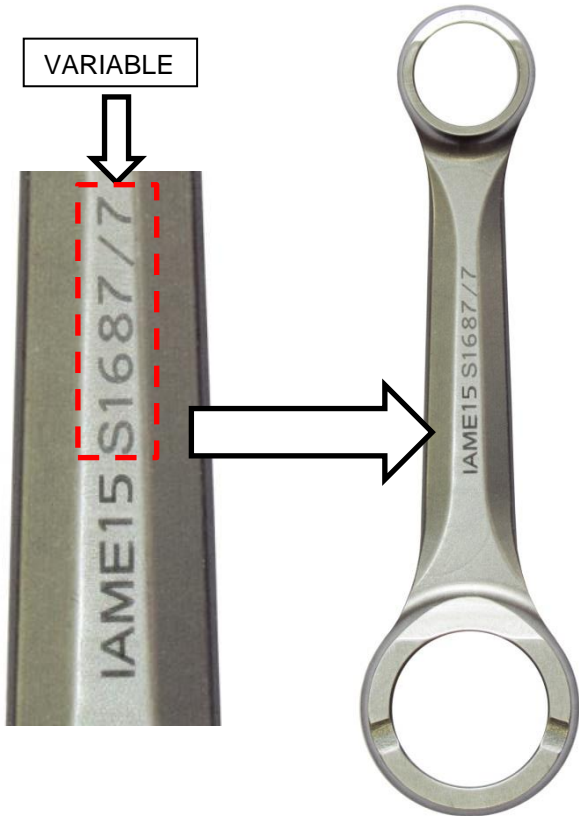


PHOTO CONROD IDENTIFICATION



CYLINDER HEAD PHOTO IDENTIFICATION

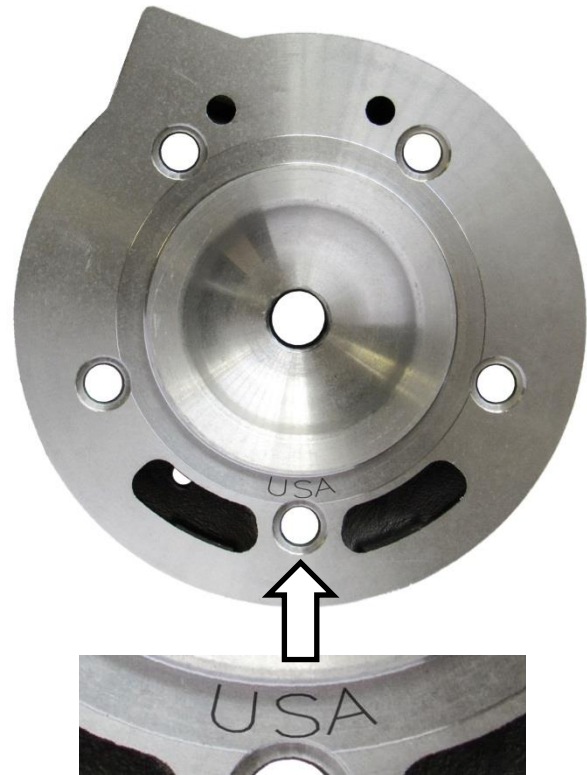


PHOTO OF CYLINDER FROM ABOVE

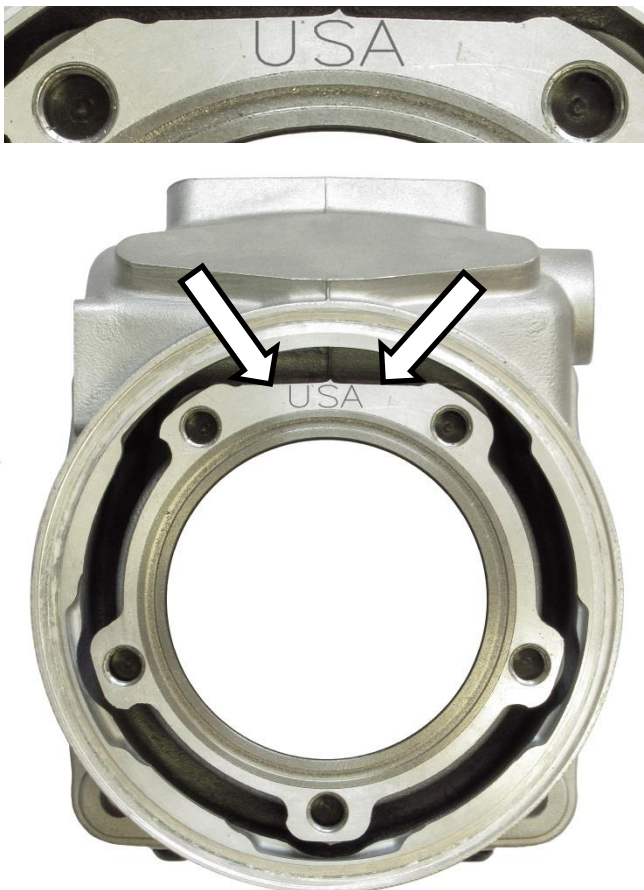
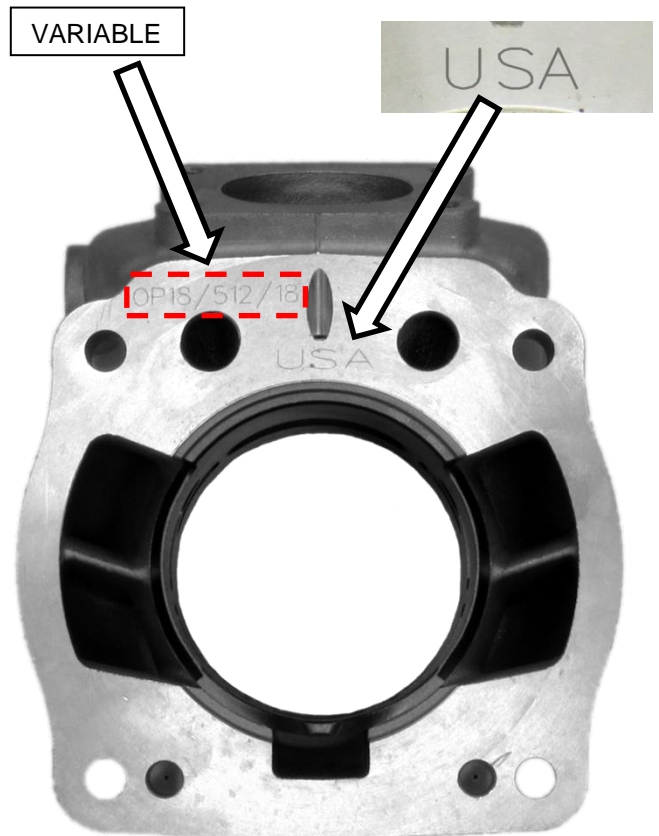
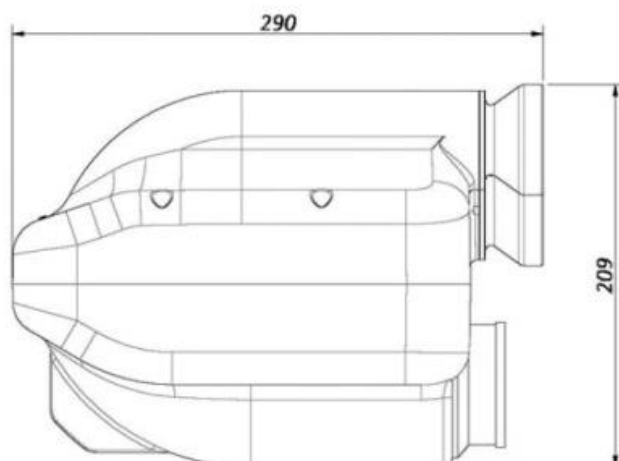
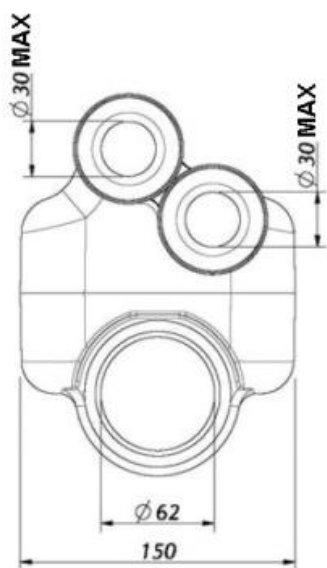


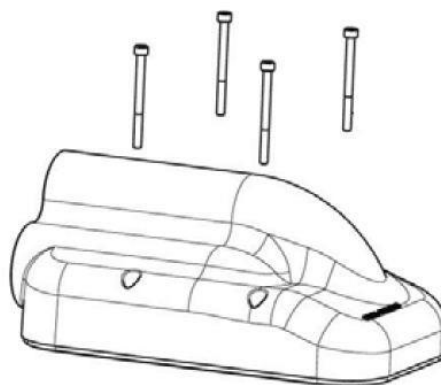
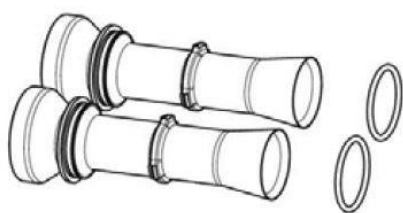
PHOTO OF CYLINDER BASE



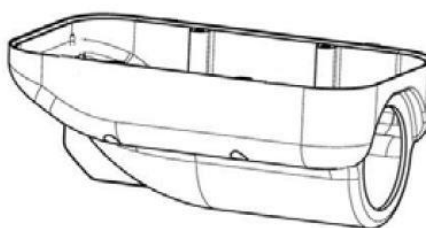
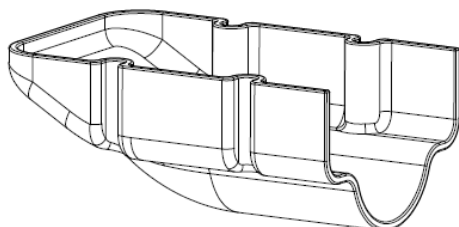
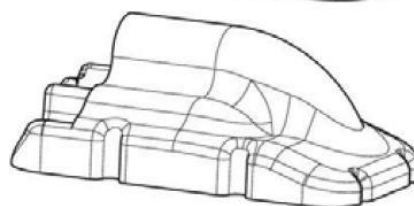
DRAWING OF AIR BOX – Righetti Ridolfi NOX D.30



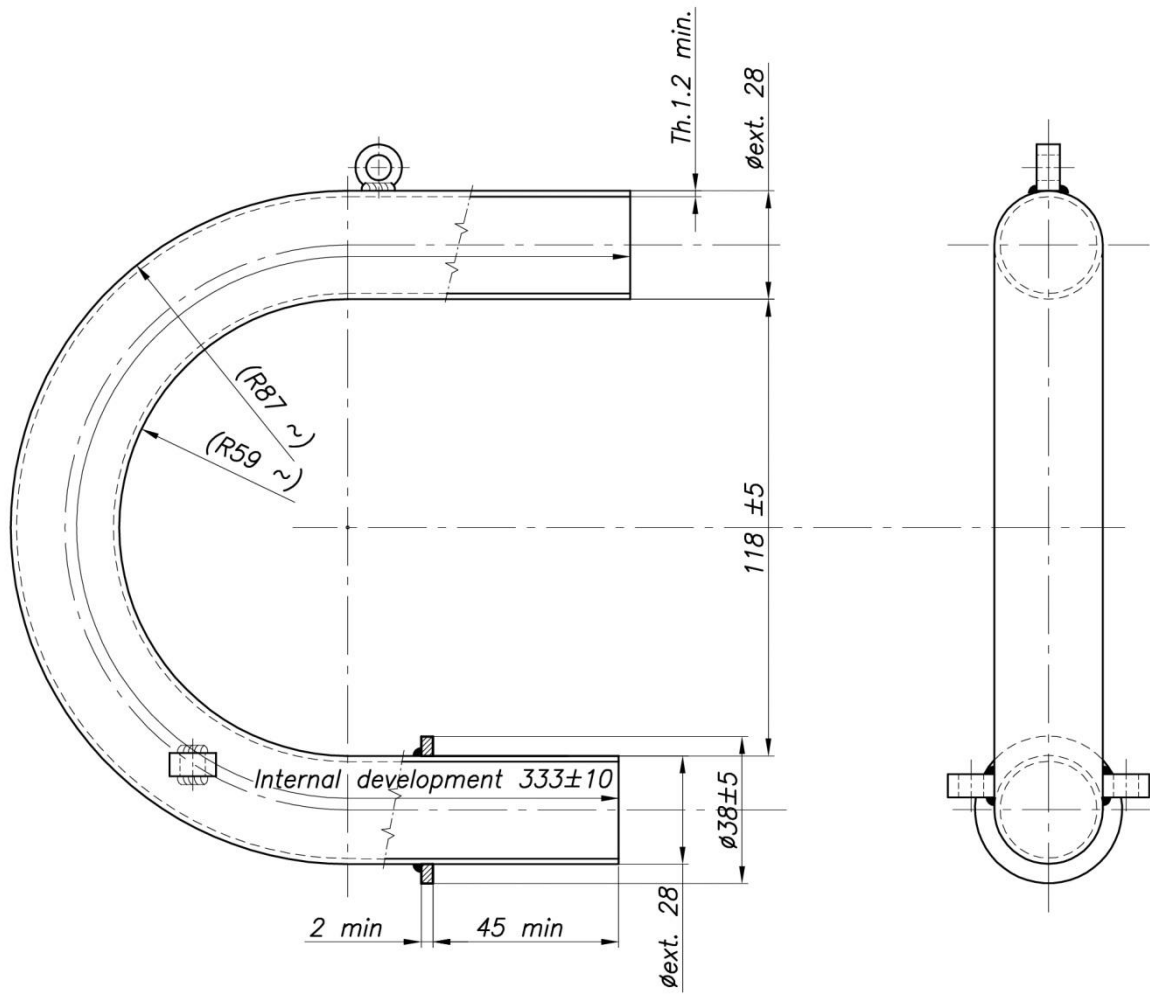
EXPLODED VIEW OF AIR BOX – Righetti Ridolfi NOX D.30



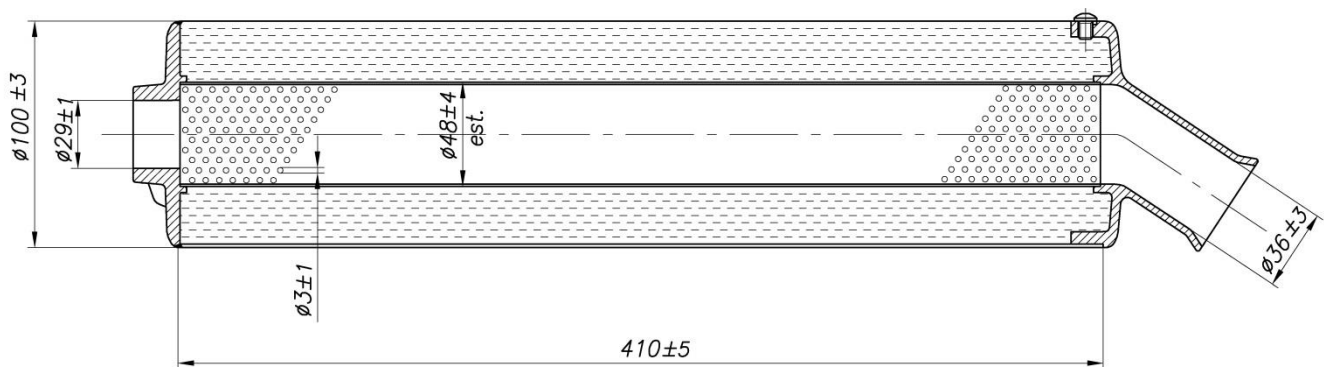
L'élément N.03 peut être tourné à 180°
The element n.3 can be rotated 180°



EXHAUST HEADER

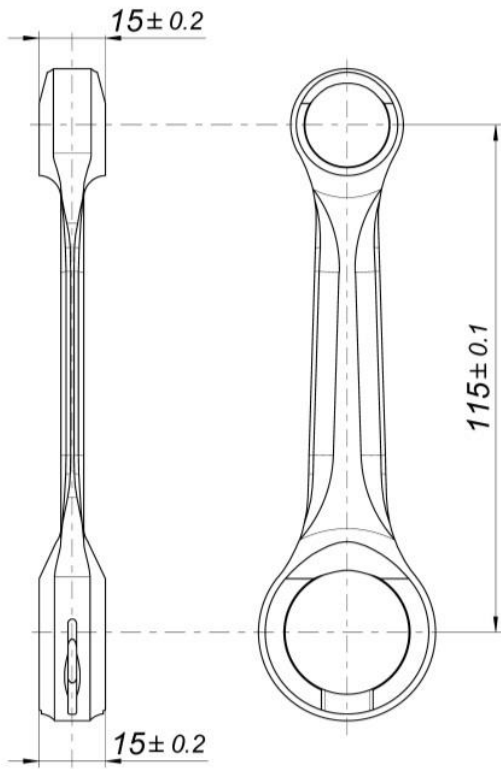


ELTO SILENCER HOMOLOGATION NUMBER

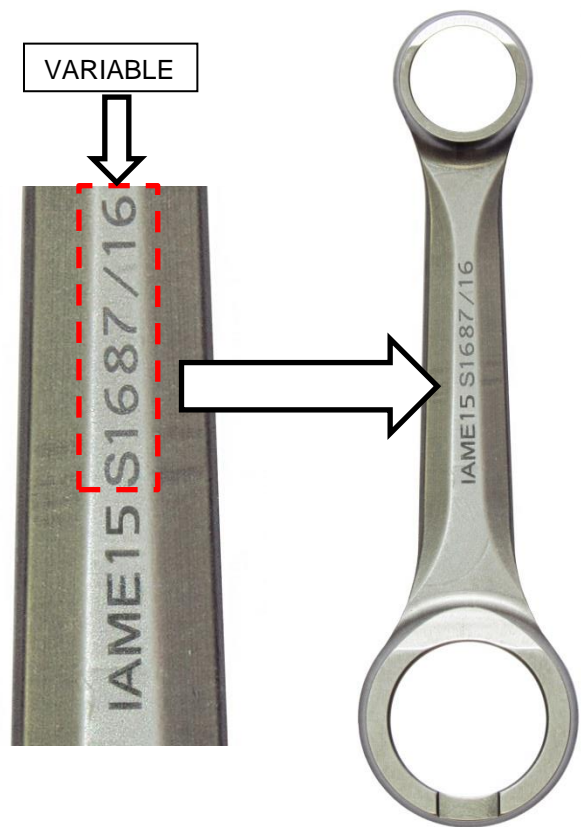


"Elto Racing" Hom. 104 1697 / 13 SS

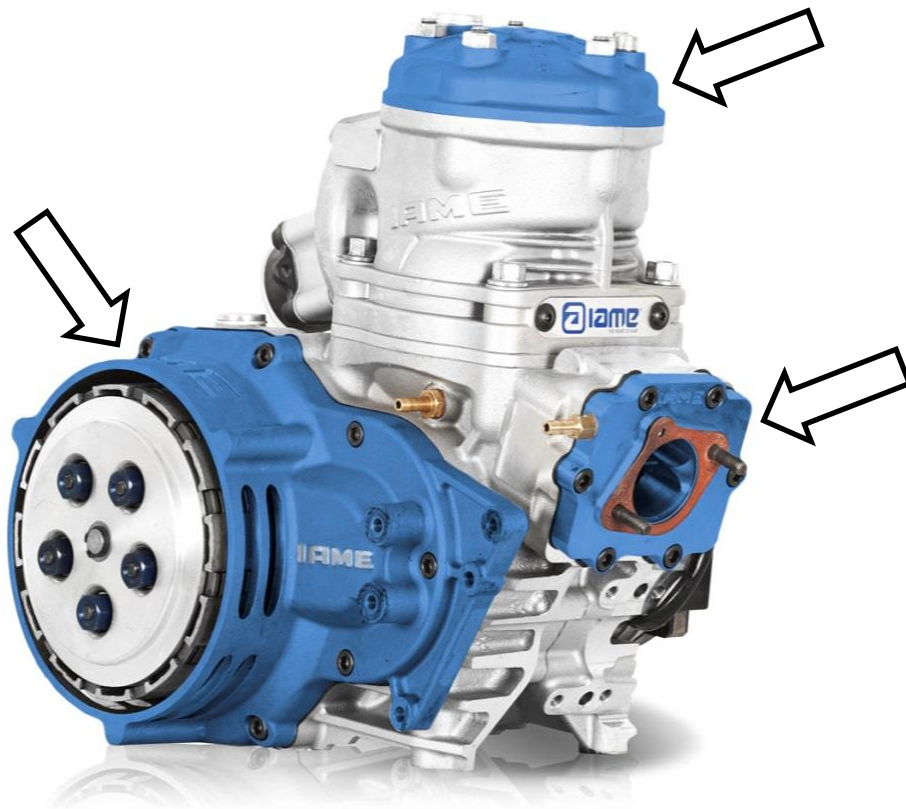
ALTERNATIVE CONROD



Min. Weight 120 g

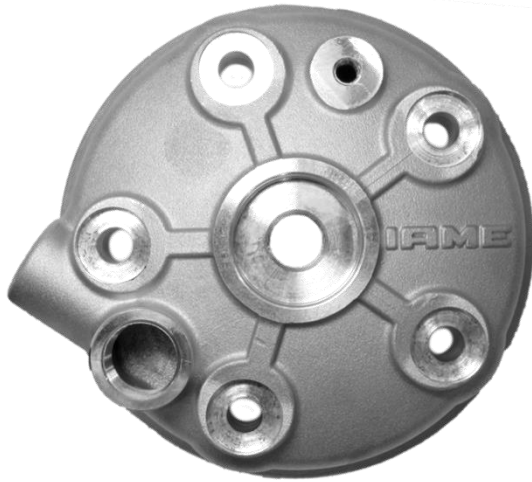


ALTERNATIVE COLOURS OF ENGINE COMPONENTS



PARTICULARS WITH ALTERNATIVE NEW LOGO "IAME"

CYLINDER HEAD



NEW LOGO



CYLINDER



NEW LOGO



SEMICARTER TRANSMISSION SIDE



NEW LOGO



SEMICARTER IGNITION SIDE



NEW LOGO



PARTICULARS WITH ALTERNATIVE NEW LOGO "IAME"

EXHAUST



NEW LOGO



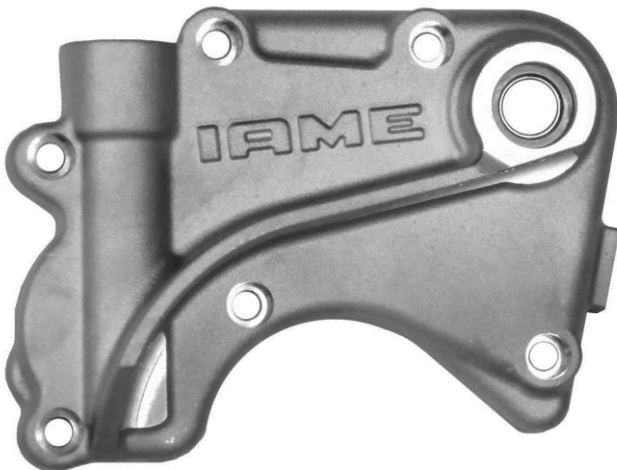
SHIFT CONTROL LEVER



NEW LOGO



SELECTOR COVER



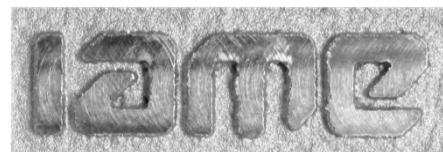
NEW LOGO



COVER CLUCH SIDE



NEW LOGO



THE OTHERS COMPONENTS OF ENGINE THAT ARE MARKED (LASER OR PUNCHING) UNTIL TODAY WITH LOGO OR WRITTEN "IAME"

I A M E

or

IAME

NOW COULD BE MARKED WITH NEW LOGO "IAME"

IAME

or

IAME

or

IAME