

IDENTIFICATION SHEET

This Identification Sheet reproduces descriptions, illustrations and dimensions of the **MINI AND MICRO ROK.**



ATTENTION

ALL THE ENGINE PARTS MUST BE ORIGINAL BY VORTEX ROK.

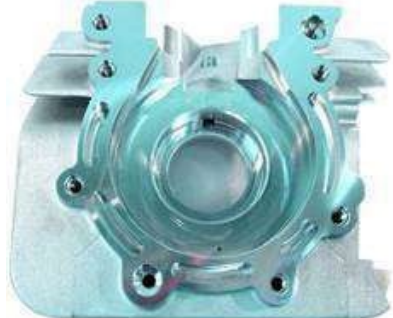
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TECHNICAL INFORMATION AND CHARACTERISTICS	
ORIGINAL BORE	41,96 mm
MAX ALLOWED BORE	42.10 mm
STROKE	43 +/- 0,1 mm
ORIGINAL DISPLACEMENT	60 cc
CONROD C-TO-C DISTANCE	90 +/- 0,1 mm
WEIGHT OF CONROD	94g +/- 2g
SPROCKET	Z10-Z11-Z12
CYLINDER DEVELOPEMENT AND DISTRIBUTION	
EXHAUST PORT	154° MAX
MAIN TRANSFER	116° ±1.5°
ADMISSION	143° ±1.5°
<u>Check of the distribution as described in the ROK CUP 2026 Technical Regulation.</u> <u>Measurement must be done with engine head dismantled (studs tightening torque: 1.8 kgm).</u>	

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PICTURE ENGINE UPPER SIDE	PICTURE ENGINE LOWER SIDE
	
CYLINDER BASE	CYLINDERHEAD AND COMBUSTION CHAMBER
	
PICTURE OF THE CRANKCASE	INTERIOR PICTURE OF THE CRANKCASE
	

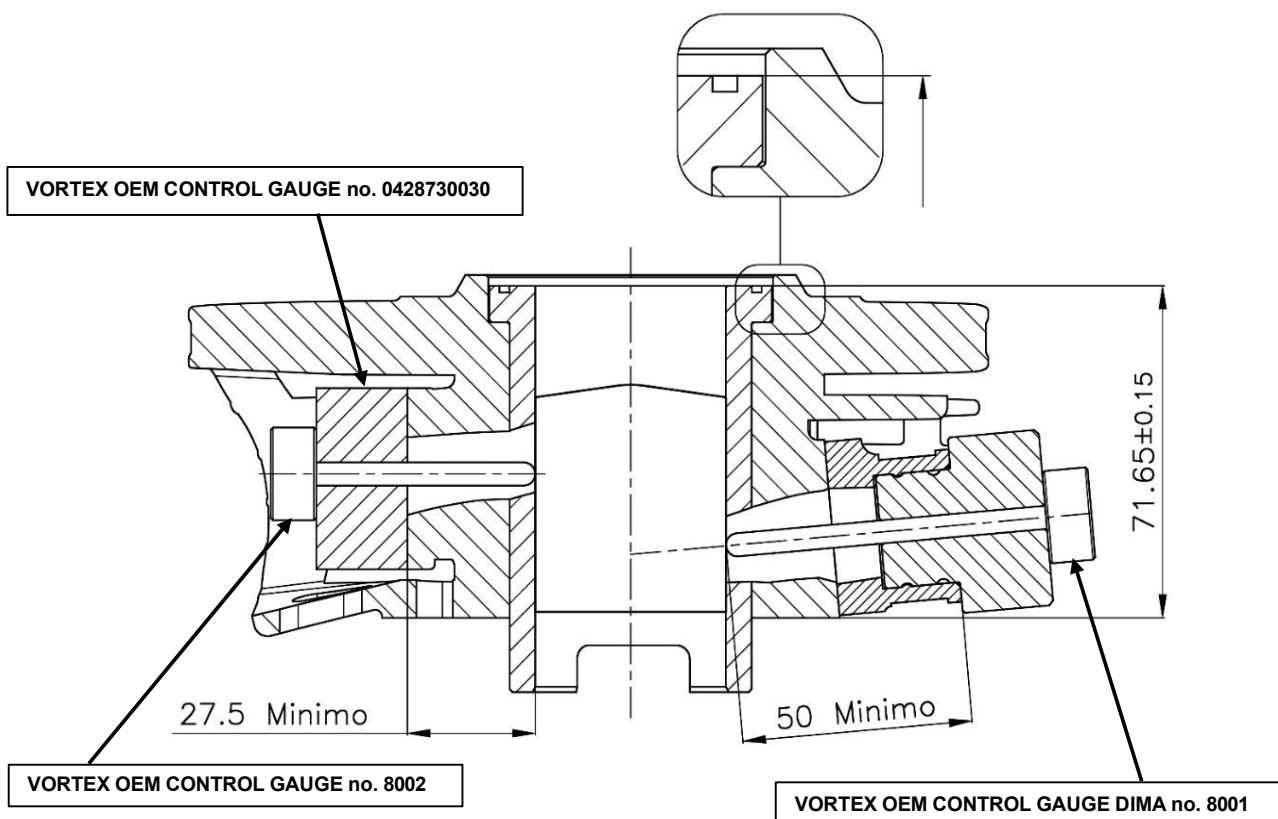
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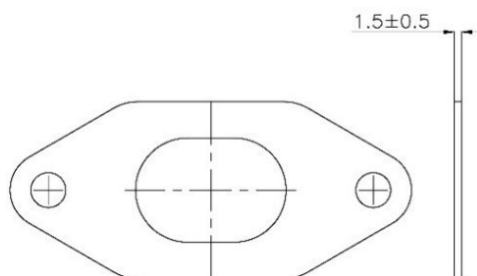
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CYLINDER SECTION

MINIMUM DISTANCE OF THE CARBURETTOR SUPPORTING PLATE FROM THE CYLINDER AXLE



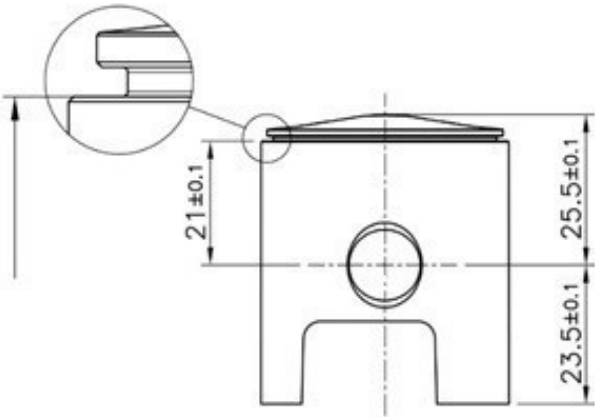
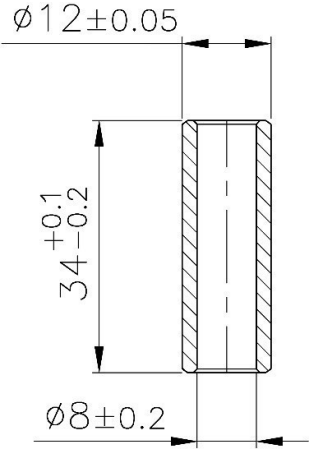
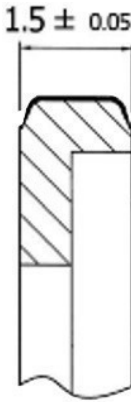
EXHAUST GASKET



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PISTON	
 - WEIGHT - 59 gr +/- 5 gr	
PISTON PIN	PISTON RING DETAIL PIECE
 - WEIGHT - 15 gr Min	
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PICTURE AND MARKING OF THE PISTON

Mandatory to have the brand VORTEX cast piston as shown in the picture.

Mandatory to have the number of the mold cast as shown in the picture.

OPTION 1



OPTION 1



OPTION 2



OPTION 2



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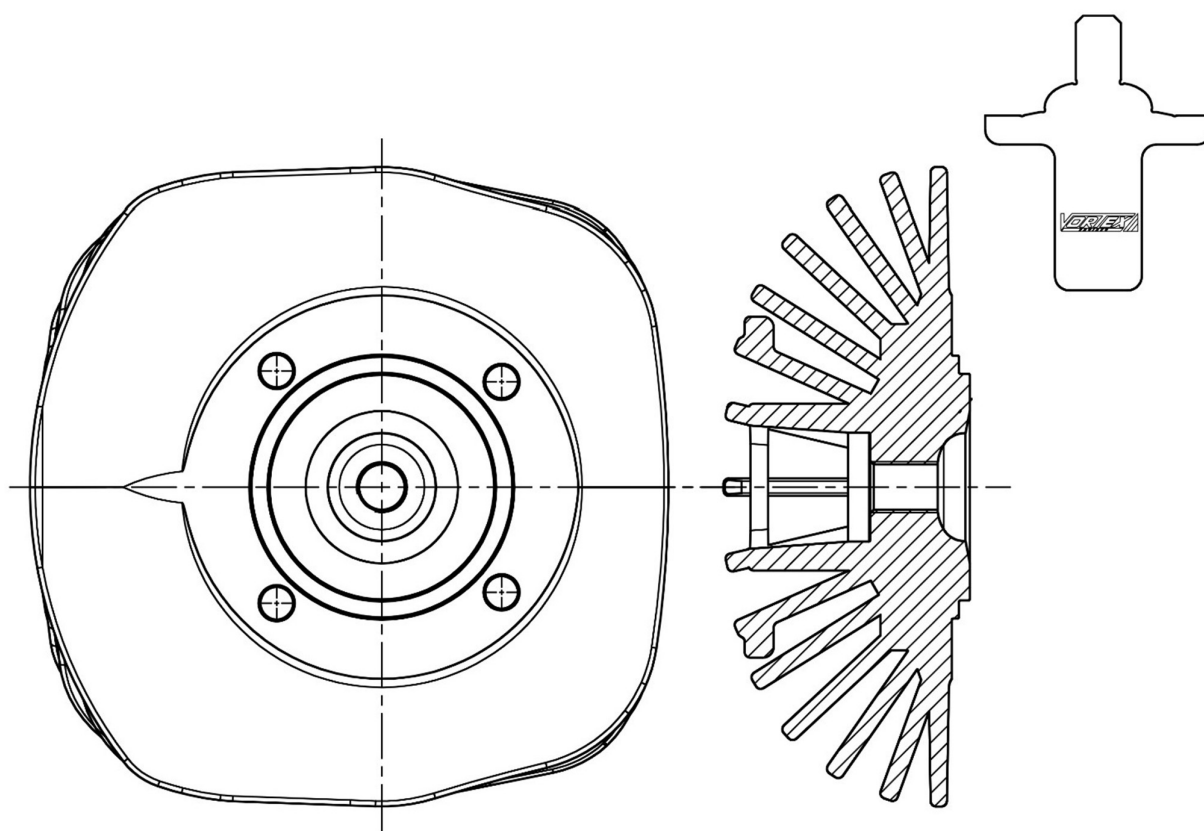
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DRAWING OF CYLINDERHEAD AND COMBUSTION CHAMBER

Volume of combustion chamber, as described in the **ROK CUP Technical Regulation 2026**.

SQUISH THICKNESS – SQUISH - EPESSEUR DE SQUISH: 0,8 mm MIN

Template gauge for checking the combustion chamber profile

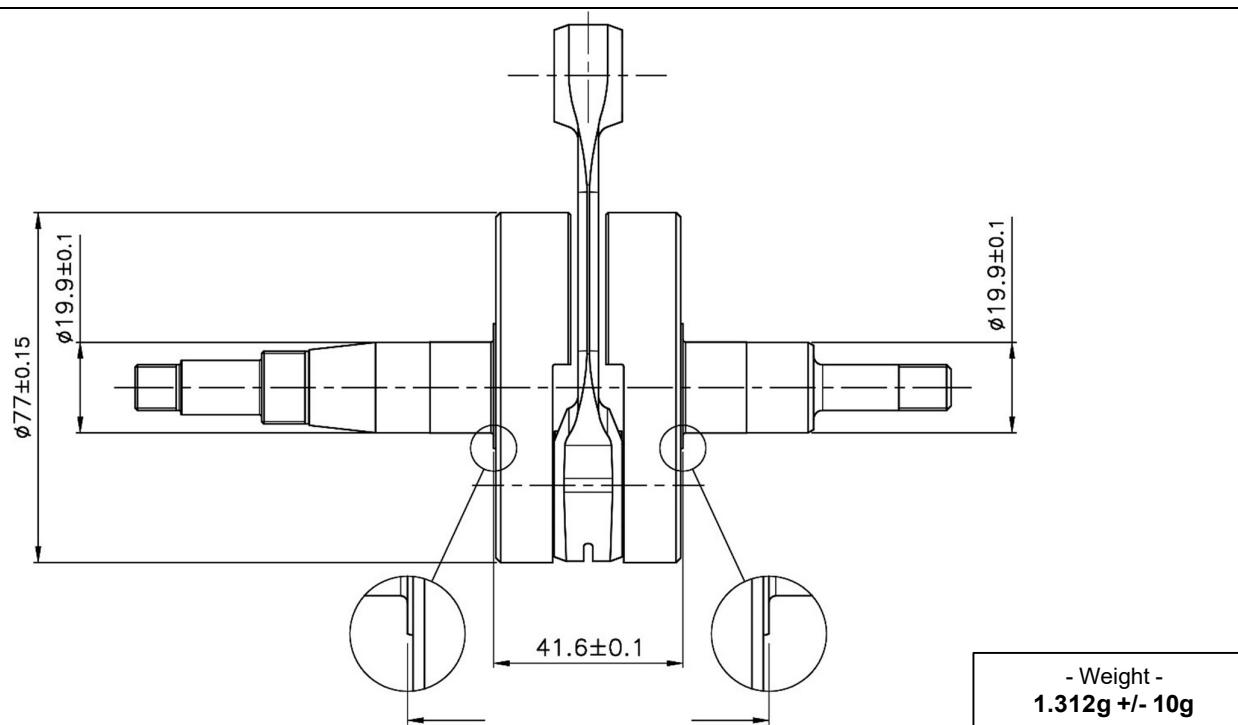


ATTENTION

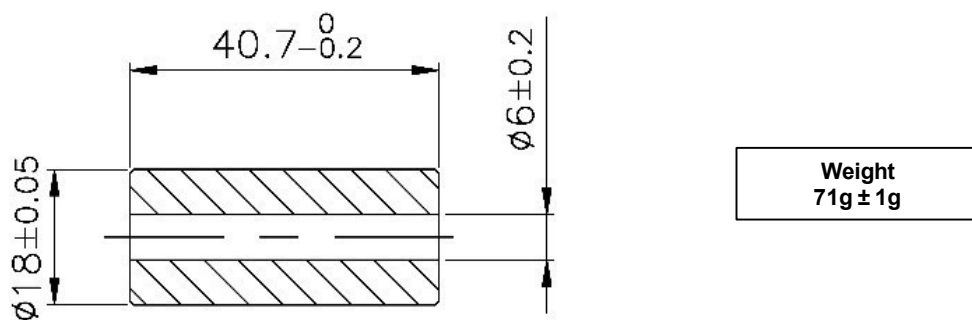
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CRANKSHAFT AND CRANKPIN



CRANK PIN



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PICTURES AND MARKING OF CONROD



PICTURE OF CRANKSHAFT WITH THE BALANCER

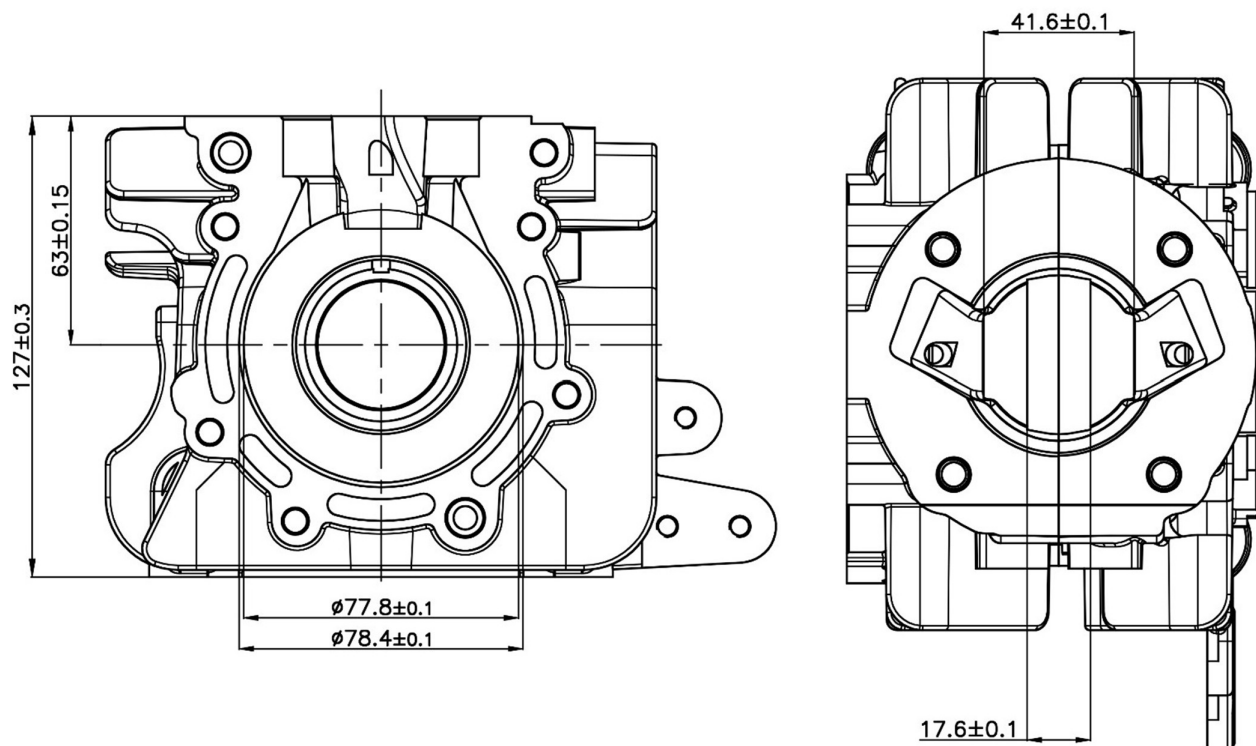


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INTERIOR VIEW OF THE CRANKCASE AND ASEMBLY VIEW



CRANKSHAFT BEARINGS

TYPE	DIMENSIONS	CHARACTERISTICS
Free brand 6204.C4	20x47x14mm	Steel Balls 8

ATTENTION

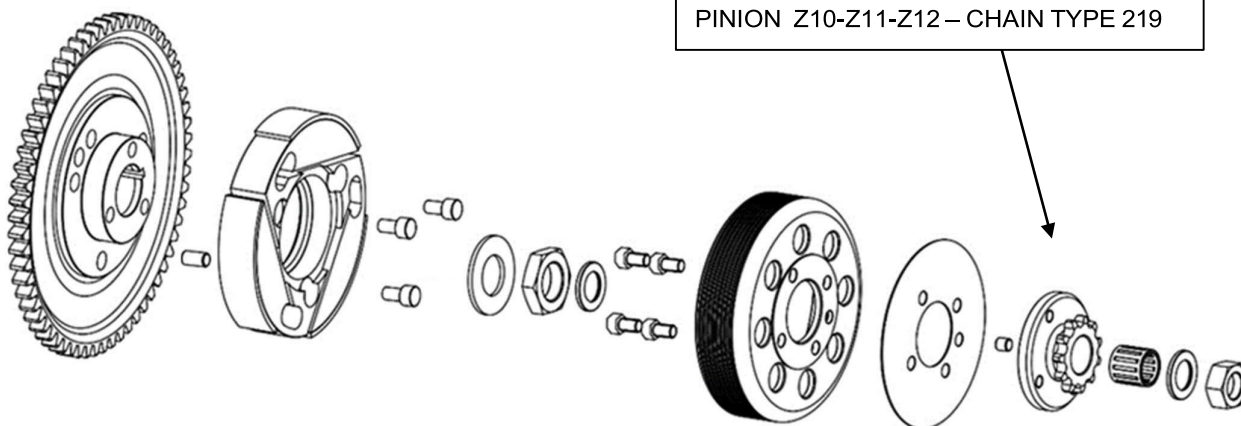
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DETAIL PHOTO OF THE CRANKSHAFT OIL SEAL POSITION



COMPL. CLUTCH ROTOR WITH STARTING GEAR



PARTS QUANTITY: 20

WEIGHT OF THE COMPLETE CLUTCH WITH STARTING GEAR AND PROTECTION: 830 gr Min

ENGAGEMENT SPEED (MAXIMUM) CAN BE VERIFIED IN EVERY MOMENT OF THE EVENT: 3500RPM

ATTENTION

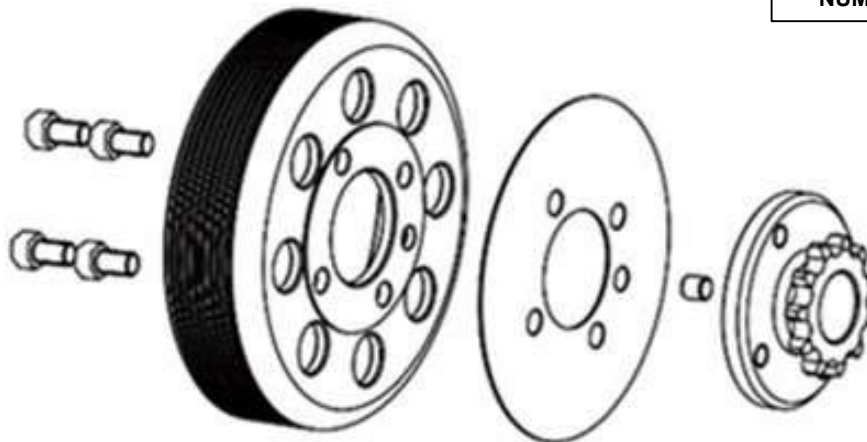
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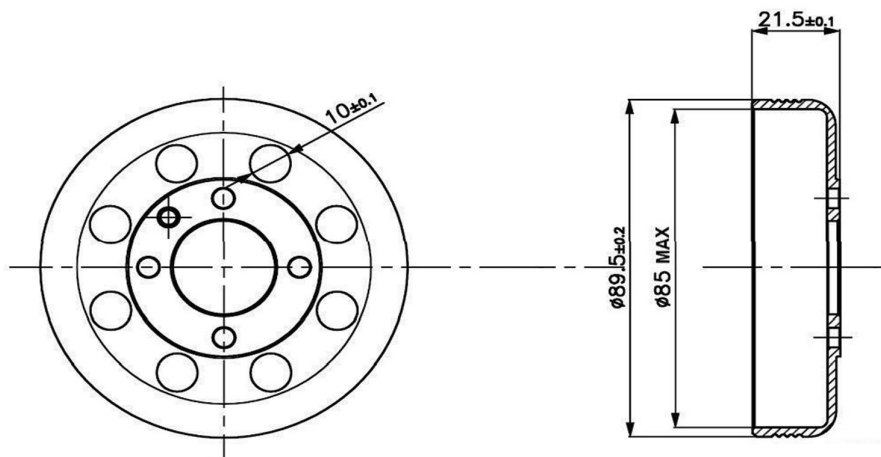
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HOUSING CLUTCH

NUMBER OF PARTS: 8



WEIGHT OF THE CLUTCH HOUSING WITH SPROCKET
264gr Min.



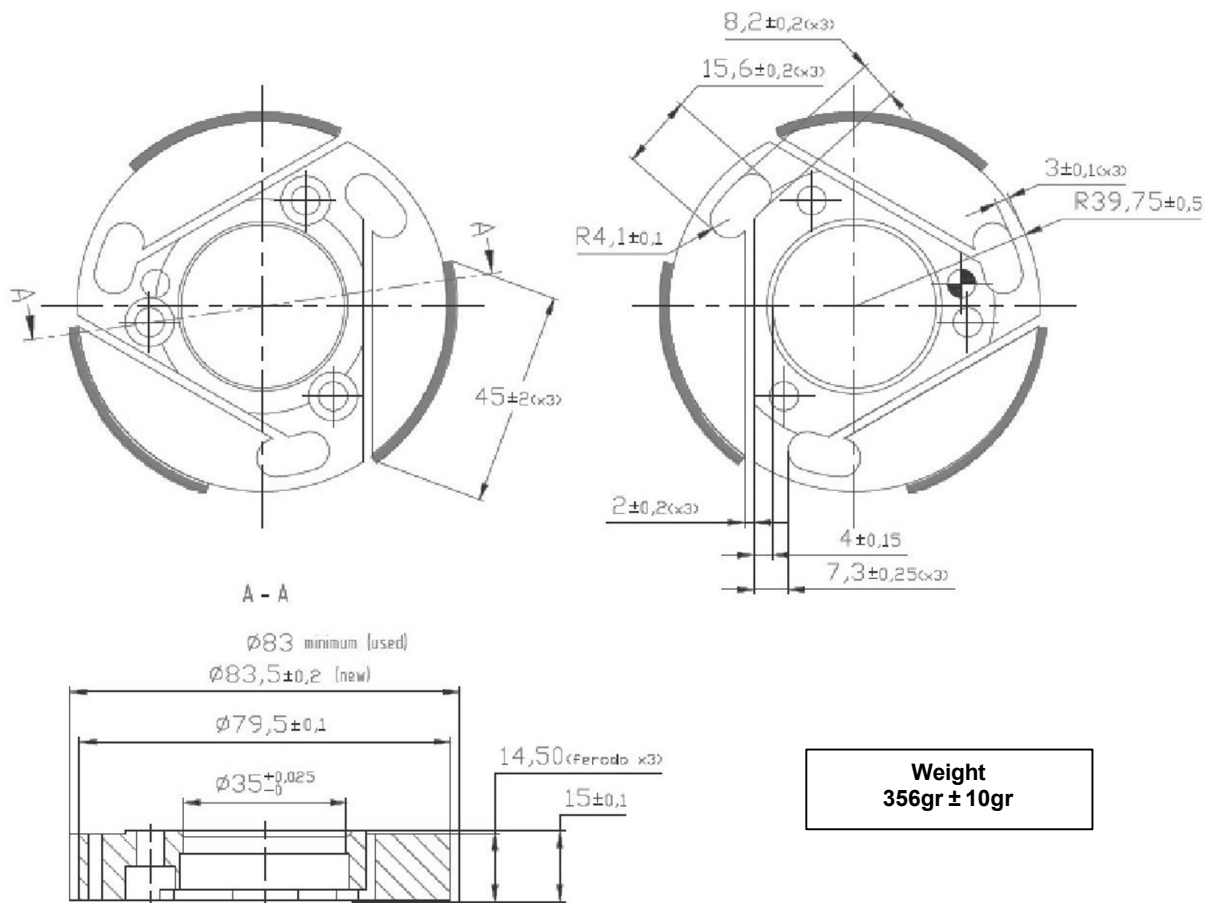
Weight
177gr ± 5gr

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ROTOR CLUTCH



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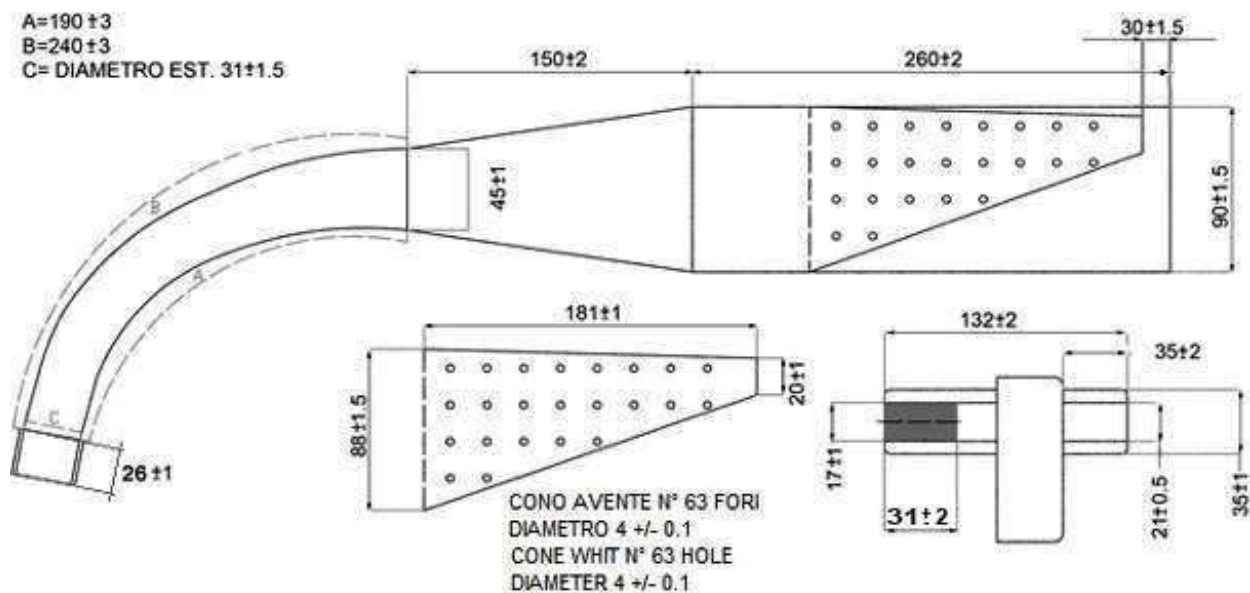
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EXHAUST MUFFLER

DIMENSION OF COLLECTOR INCLUDING WELDING.

EXHAUST WEIGHT

1,372gr +/- 5%



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PHOTO AND MARKING OF THE EXHAUST



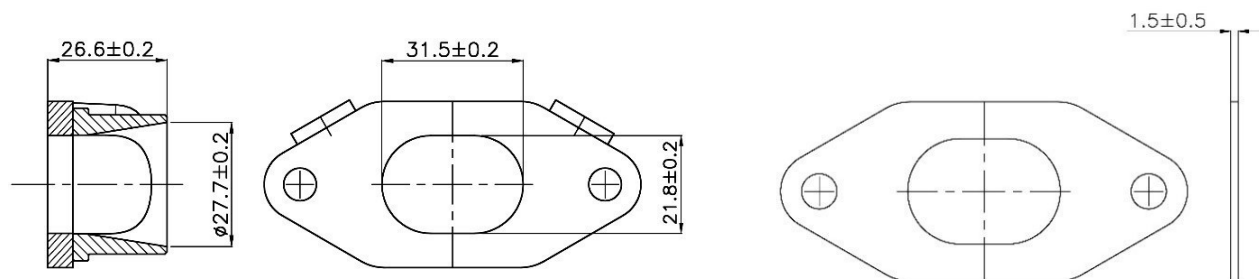
DURING EXAMINATION, ON THE EXHAUST IT MUST BE INDICATED THE IDENTIFICATION LOGO ROK MINI.

ATTENTION

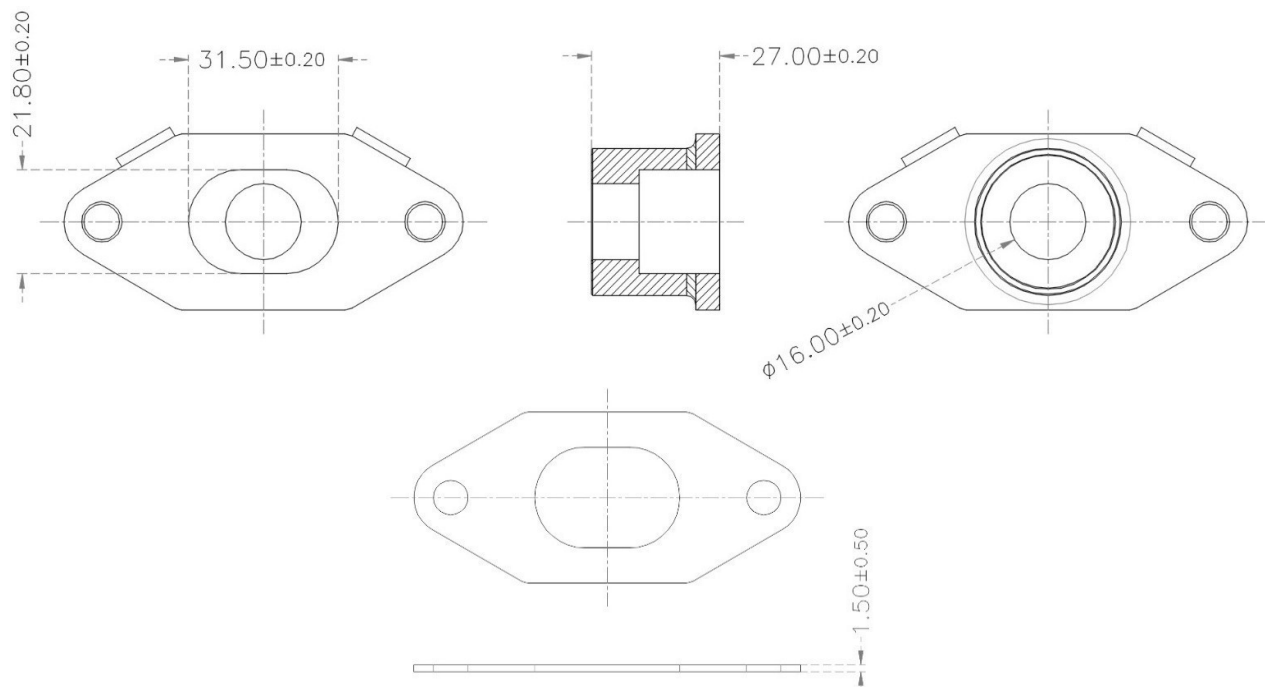
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EXHAUST MANIFOLD



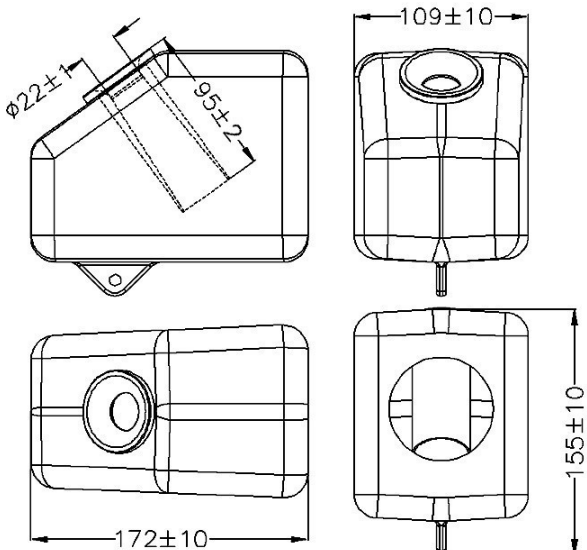
EXHAUST MANIFOLD AND GASKET FOR MICRO CATEGORY



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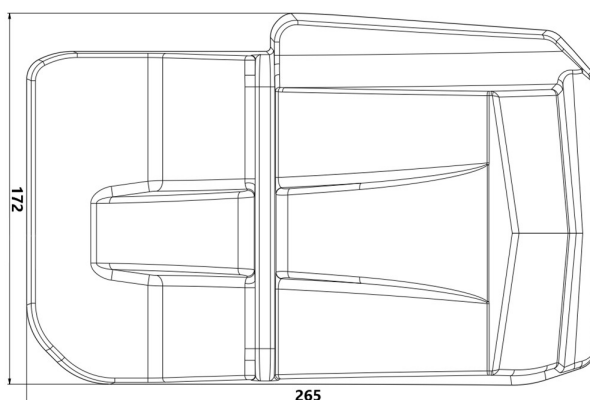
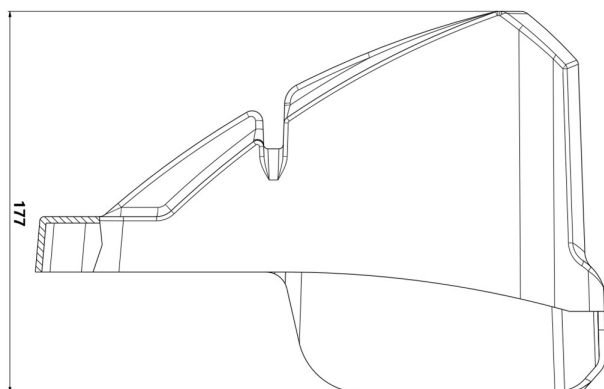
INLET SILENCER	
MODEL, TYPE	MINI
 MARKED VORTEX AIR FILTER MESH AS OPTIONAL	
	

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RAIN PROTECTION INLET SILENCER (OPTIONAL)



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PICTURES OF SELETTRA IGNITION



SPARK PLAG

ENGINE OIL



**ONLY AUTHORIZED SPARK PLUG
NGK BPR 9 EIX**



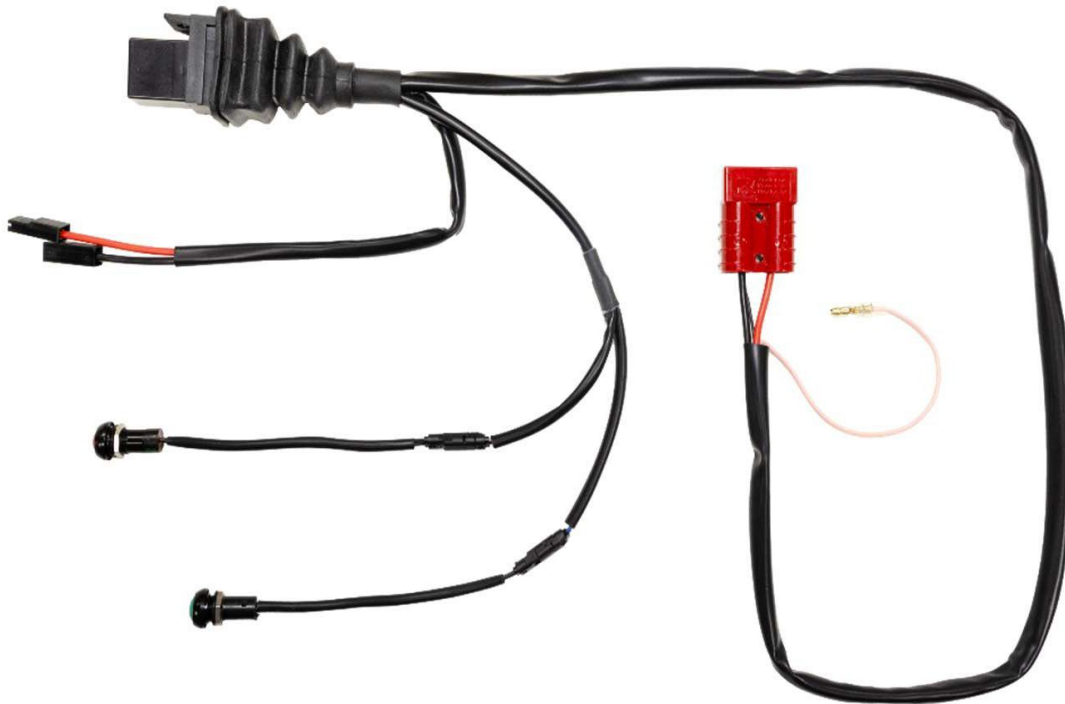
**ONLY AUTHORIZED ENGINE OIL
ENI KART 2T**

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STARTER WIRING



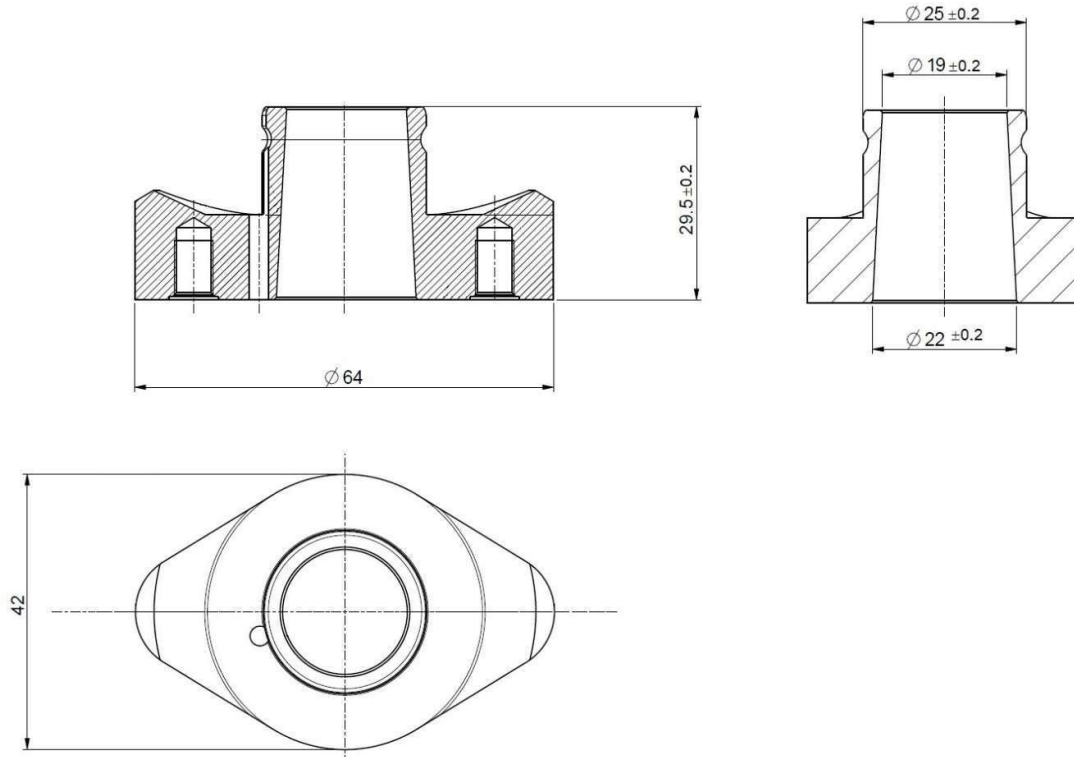
Engines shall be mandatory switched on and off by means of onboard starting system. Technical steward members shall check the on-off onboard system anytime.

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INTAKE MANIFOLD TECHNICAL DRAWING



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INTAKE MANIFOLD PHOTO



PHOTO OF INTAKE MANIFOLD RUBBER MOUNT

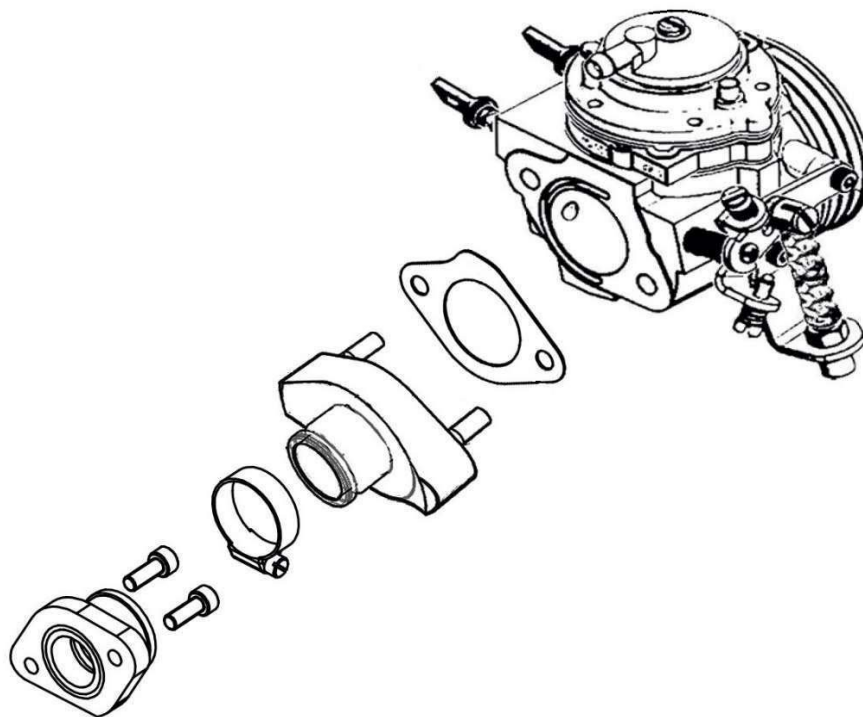


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PHOTO OF THE ASSEMBLY OF THE INTAKE GROUP



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CARBURETTOR Tillotson HW-48A



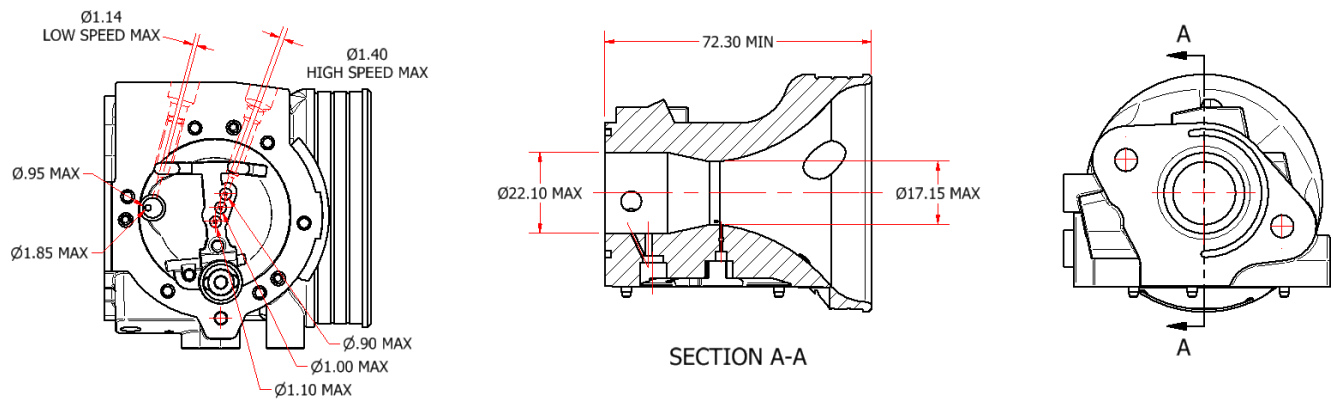
PHOTO OF ADJUSTING SIDE



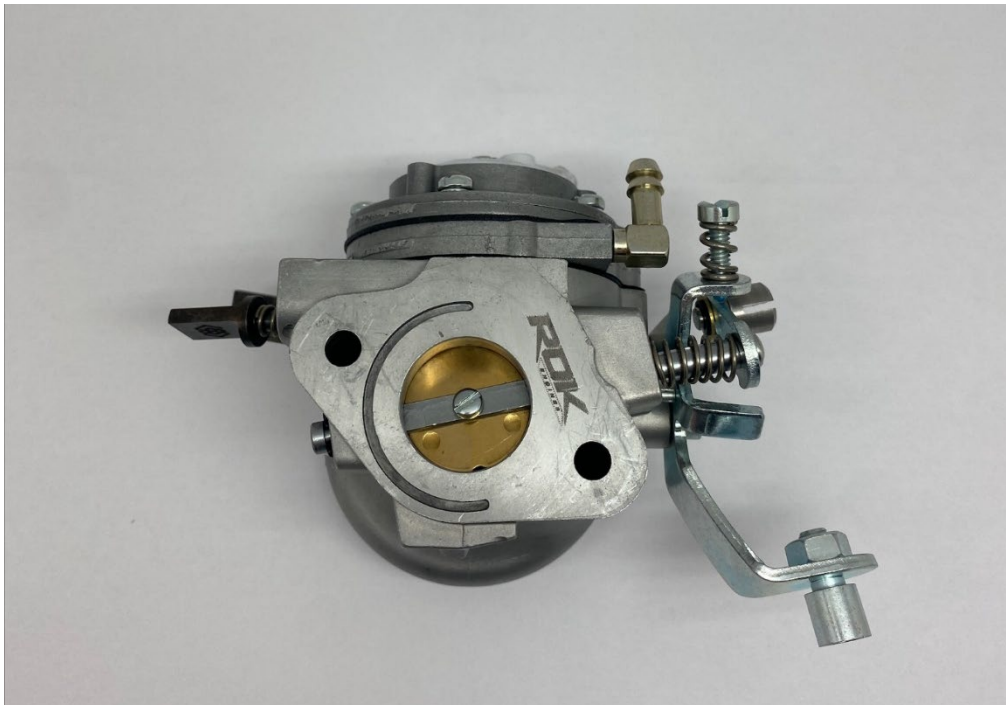
PHOTO OF INLET SIDE

Manufacturer	TILLOTSON LTD.
Make	TILLOTSON
Model	HW-48A

SECTION VIEW



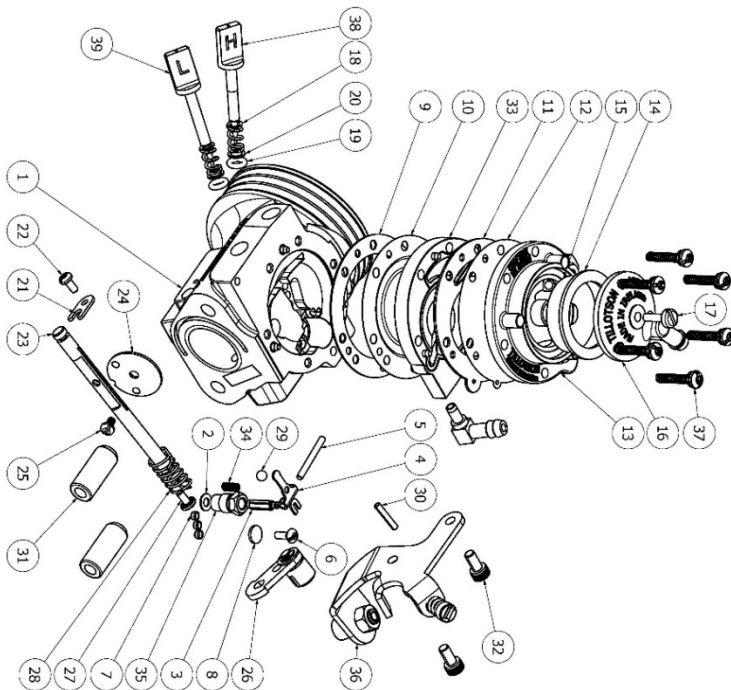
MARKING



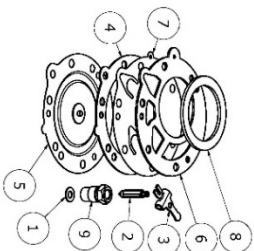
CARBURETTOR DESCRIPTION AND SKETCH OF PARTS

HW-48A

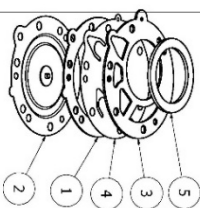
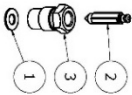
PARTS LIST			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	1	219-D325	MACHINED BODY
2	1	16-B199	* COPPER GASKET, INLET SEAT
3	1	34-216	* INLET NEEDLE
4	1	155-A27	* INLET VALVE CONTROL LEVER
5	1	32-79	FULCRUM LEVER PIN
6	1	15-B329	FULCRUM LEVER SCREW
7	3	80-160	BRASS PLUG
8	1	179-62	* METRING GASKET
9	1	16-B217	* DIAPHRAGM ASSEMBLY
10	1	237-600	* PUMP GASKET
11	1	16-B392	* FUEL PUMP DIAPHRAGM
12	1	237-162	* FUEL PUMP BODY
13	1	141-89	* STRAINER GASKET
14	1	16-B205	FUEL STRAINER SCREEN
15	1	95-170	WHITE STRAINER COVER
16	1	91-A251	COVER SCREW
17	1	15-B313	ADJUSTMENT SCREW SPRING
18	2	24-B449	ADJUSTMENT SCREW O-RING
19	2	44-361	ADJUSTMENT SCREW WASHER
20	2	78-A256	THROTTLE SHAFT CLIP
21	1	29-224	4-40 UNC SCREW
22	1	15-C19	THROTTLE SHAFT
23	1	13-B215	THROTTLE SHUTTER
24	1	14-A96	4-40 UNC SCREW
25	1	15-C20	THROTTLE LEVER ASSEMBLY
26	1	12-1218	LEVER SCREW
27	1	15-C52	THROTTLE RETURN SPRING
28	1	24-B381	4MM BRASS BALL
29	1	206-135	PIN
30	1	62-A92	CARBURETOR MOUNTING NUT
31	2	81-377	M4 X 0.7 SOCKET CAP SCREW
32	2	15-C67	METERING COVER ASSEMBLY
33	1	91-1031	METERING TENSION SPRING 26g
34	1	24-B323	* INLET SEAT
35	1	36-A27	CABLE BRACKET ASSEMBLY
36	1	136-559	6 - 32 UNC SCREW
37	6	15-C51	M4 X 0.5 ADJUSTMENT SCREW H
38	1	43-1045	8-32 UNC ADJUSTMENT SCREW L
39	1	43-1046	



REPAIR KIT [RK-7HW] PART LIST			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	1	16-B199	* COPPER GASKET, INLET SEAT
2	1	34-216	* INLET NEEDLE
3	1	155-A27	* INLET VALVE CONTROL LEVER
4	1	16-B217	* METRING GASKET
5	1	237-600	* DIAPHRAGM ASSEMBLY
6	1	16-B392	* PUMP GASKET
7	1	237-162	* FUEL PUMP DIAPHRAGM
8	1	16-B205	* STRAINER GASKET
9	1	36-A27	* INLET SEAT



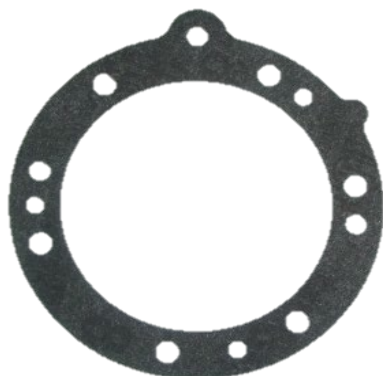
INLET SEAT & NEEDLE ASSEMBLY PACK [233-720P] PART LIST:			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	1	16-B199	* COPPER GASKET, INLET SEAT
2	1	34-216	* INLET NEEDLE
3	1	36-A27	* INLET SEAT



DIAPHRAGM AND GASKET KIT [DG-1HW] PART LIST:			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	1	16-B217	* METRING GASKET
2	1	237-600	* DIAPHRAGM ASSEMBLY
3	1	16-B392	* PUMP GASKET
4	1	237-162	* FUEL PUMP DIAPHRAGM
5	1	16-B205	* STRAINER GASKET

PARTS OF CARBURETTOR

**REF.9 - P. N°16-B217
DIAPHRAGM GASKET**



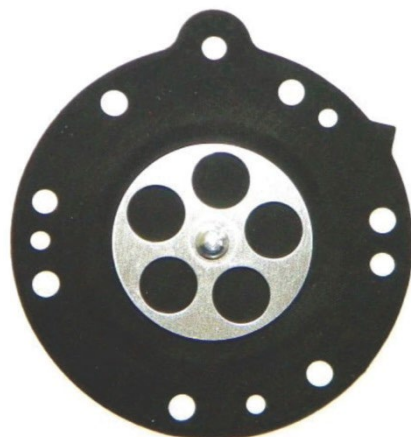
Thickness = 0.5 ± 0.1 mm

**PUMP DIAPHRAGM GASKET
REF.11 - P. N° 16-B392**



Thickness = 0.8 ± 0.1 mm

**REF.10 - P. N°237-600
DIAPHRAGM**



Thickness = 0.13 ± 0.07 mm

**REF.12 - P. N°237-162
PUMP DIAPHRAGM**



Thickness = 0.10 ± 0.063 mm

**REF.33 - P. N° 91-1031
DIAPHRAGM COVER**



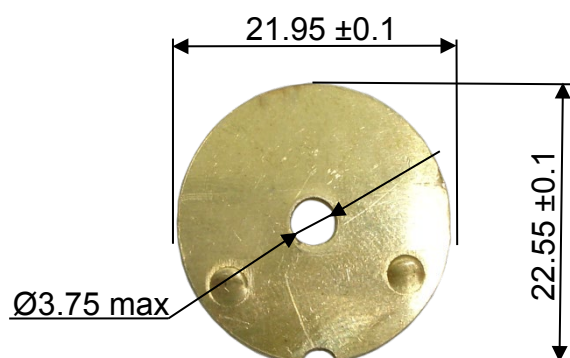
Thickness = 6.75 ± 0.15 mm

**REF.13 - P. N° 141-89
PUMP COVER**



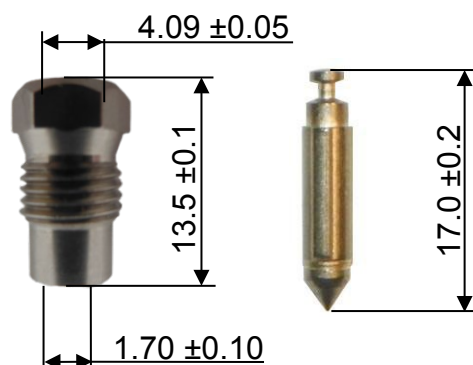
Thickness = 12.5 ± 0.15 mm

**REF. 24 - P. N° 14-A96
THROTTLE SHUTTER**



Thickness = 0.81 ± 0.1 mm

**REF. 35, 3 - P. N° 233-720P
SEAT + NEEDLE**



**REF.39 - P. N° 43-1046
NEEDLE LOW SPEED**



**REF.38 - P. N° 43-1045
NEEDLE HIGH SPEED**

