

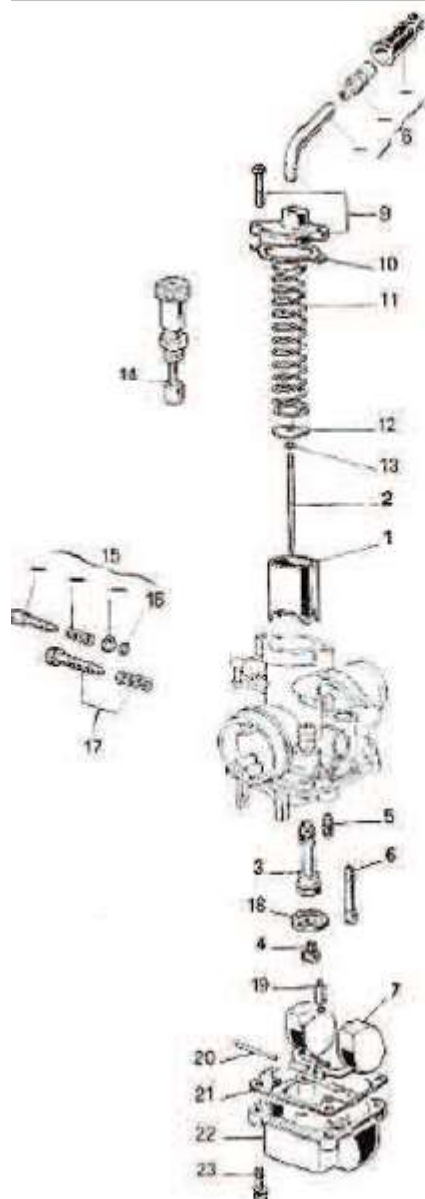




# MINI ROK

Illustration Only

CARBURATORE DELL'ORTO PHBG 18 BS E COMPONENTI  
CARBURETTOR DELL'ORTO PHBG 18 BS AND COMPONENTS



1. VALVOLA GAS
2. SPILLO CONICO
3. POLVERIZZATORE
4. GETTO MASSIMO
5. GETTO MINIMO
6. GETTO AVVIAMENTO
7. GALLEGGIANTE
8. KIT TUBETTO 90°
9. KIT COPERCHIO CAMERA MISCELA
10. GUARNIZIONE COPERCHIO CAMERA MISCELA
11. MOLLA RICHIAMO VALVOLA GAS
12. PIASTRINA RITEGNO FERMAGLIO SPILLO CONICO
13. FERMAGLIO SPILLO CONICO
14. DISPOSITIVO AVVIAMENTO
15. KIT VITE REGOLAZIONE MISCELA MINIMO
16. GUARNIZIONE VITE REGOLAZIONE MISCELA MINIMO
17. KIT VITE REGOLAZIONE VALVOLA GAS
18. FONDELLO
19. SPILLO CHIUSURA BENZINA
20. PERNO GALLEGGIANTE
21. GUARNIZIONE VASCHETTA
22. VASCHETTA
23. VITE FISSAGGIO VASCHETTA

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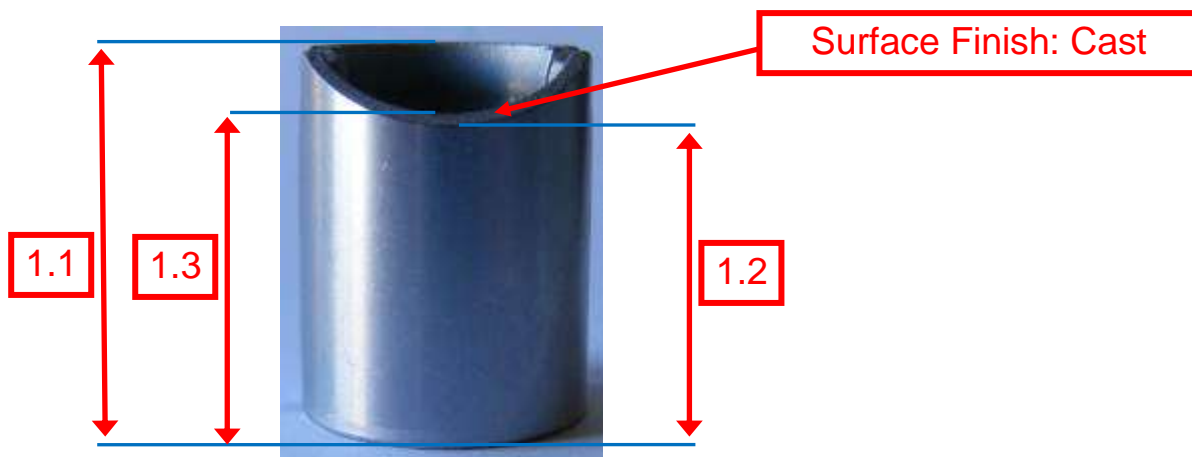




# MINI ROK

## 1. Slide (40)

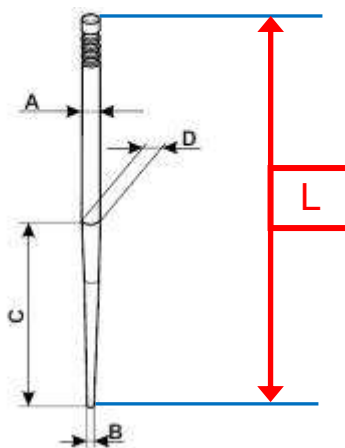
- 1.1 Length of Slide  
**Spec:** 27.50mm  $\pm$  0.15mm
- 1.2 Length of Cut Away to the top of the Slide  
Length of Slide  
**Spec:** 23mm  $\pm$  0.25mm
- 1.3 Length of Cut Away to the top of the Slide  
Length of Slide  
**Spec:** 23.4mm  $\pm$  0.15mm



## 2. Needle Mini Rok (W 23) - (incl. Clip position for Kid Rok).



Needle clip position "2" for Kid Rok



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## MINI ROK

- 2.1 Table of Needle Specifications as per Supplier Chart (Dellorto) NOTE: Clip Position ONE (1) is TOP of needle (Also as per Master Sample W23 needle from the Vortex Rok Importer)

Type	Value X	Characteristic expressed in millimeters						
		ØA	ØB	C	ØD	E	F	L
W23	23	2.5 ±0.03	0.6 ±0.05	(26 ±0.5)	2.5 ±0.03	-	-	45 ±0.2
			Measured right at the tip	Reference Dimension				

- 2.2 The Technical Consultant may also compare the needle to a master sample supplied by the Vortex Rok Importer.
- 2.2 There must be 1 mixture needle stop (Circlip, #13 on page 2) fitted to the needle.
- 2.3 No Washer is permitted to be fitted either above or below the circlip.
- 2.4 Note: The marking "W23" on the needle does wear off after a period time. It is the responsibility of the competitor to ensure that if the marking wears off, that the needle is replaced with a new one.
- 2.5 Should the technical consultant inspect a needle that the marking is worn off; the needle will be checked with reference to the specification above and / or a master sample. The needle will then be impounded by the TC and the competitor will be required to fit a new needle.
- 2.6 Wear marks towards the tip of the needle, where the needle goes through the emulsion tube is common. The needle should be replaced if wear is excessive.

### 3. Atomizer / Emulsion Tube (Mini Rok) (266 AN)

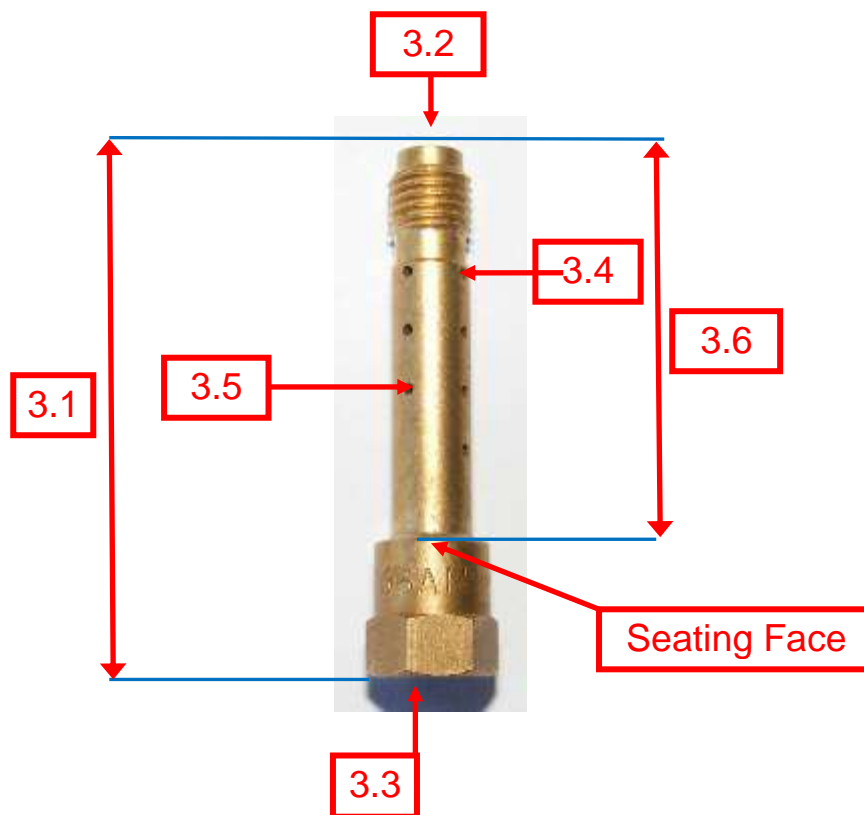
- 3.1 Length of Emulsion Tube  
**Spec:** 36.00mm ± 0.20mm
- 3.2 Internal Diameter from side 3.2  
**GO Spec:** 2.66mm (GO)
- 3.3 Internal Diameter from side 3.3  
**GO Spec:** 3.00mm (GO)
- 3.4 2 x Rows of 4 holes  
**GO Spec:** 0.80mm (GO)  
**NO GO Spec:** 0.85mm (NO GO)
- 3.5 2 x rows of 3 holes  
**GO Spec:** 0.80mm (GO)  
**NO GO Spec:** 0.85mm (NO GO)
- 3.6 Length of Nozzle tip to seating face  
**Spec:** 27.00mm ± 0.20mm

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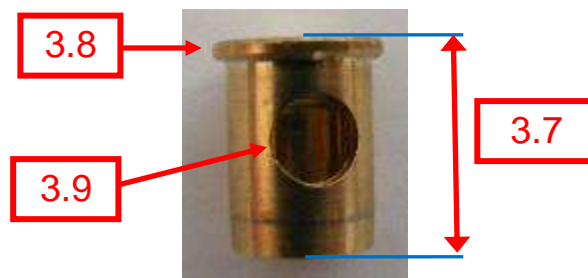


# MINI ROK



## INSERT

- 3.7 Length of Insert  
**Spec:** 12.00mm ± 0.20mm
- 3.8 Thickness of Flange  
**Spec:** 1.00mm ± 0.20mm
- 3.9 Hole Diameter  
**Spec:** 4.90mm ± 0.30mm



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## MINI ROK

### 4. Pilot Jet (50)

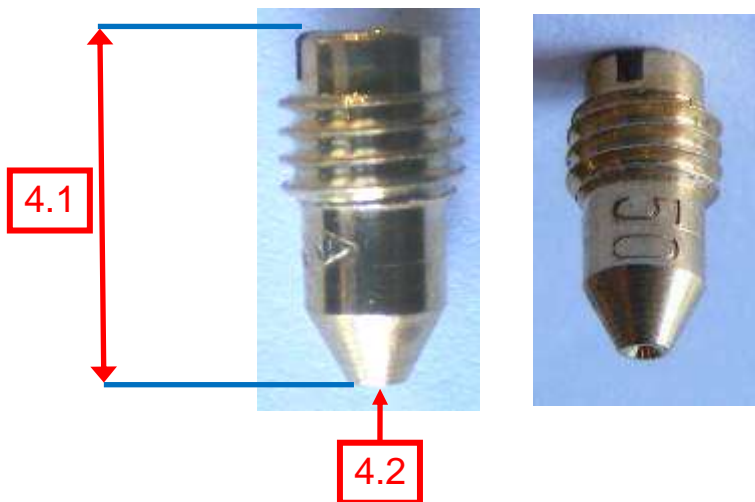
4.1 Length of Pilot Jet

**Spec:** 9.50mm  $\pm$  0.20mm

4.2 Internal Diameter of Smallest hole inside the Pilot Jet

**GO Spec:** 0.5 mm (GO)

**NO GO Spec:** 0.55 mm (NO GO)



### 5. Choke Jet (60)

5.1 Length of Choke Jet

**Spec:** 27.00mm  $\pm$  0.25mm

5.2 Internal Diameter of hole inside the Choke Jet

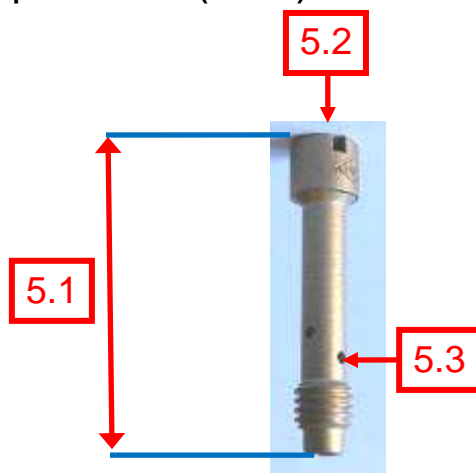
**GO Spec:** 0.60 mm (GO)

**NO GO Spec:** 0.65 mm (NO GO)

5.3 4 holes, 90° apart

**GO Spec:** 1.00 mm (GO)

**NO GO Spec:** 1.10 mm (NO GO)



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### 6. Main Jet

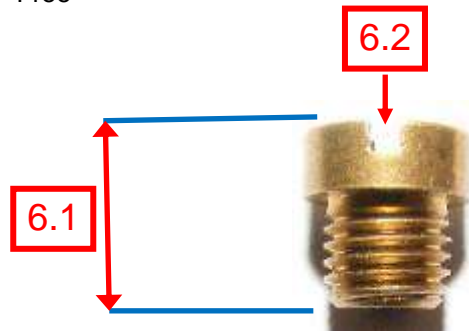
The anti-surge plate fitted between the emulsion tube and the main jet may **NOT** be removed.

6.1 Length of Main Jet

**Spec:** 8.0mm  $\pm$  0.3mm

6.2 Internal diameter of main jet.

**Spec:** Free



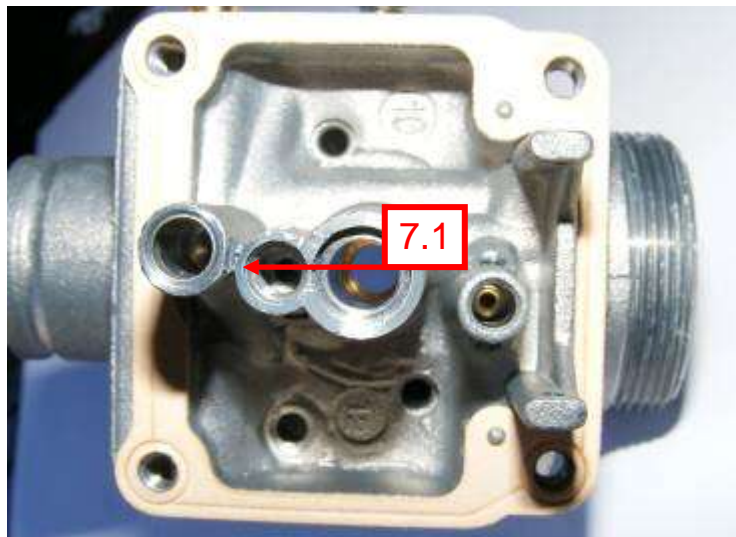
### 7. Needle & Seat Valve

7.1 Internal Diameter of hole inside the Needle Valve

**GO Spec:** 1.45 mm (GO)

**NO GO Spec:** 1.55 mm (NO GO)

The Only Needle permitted is the solid needle with no spring



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## MINI ROK

### 8. Float

#### 8.1 Weight of Float

**Spec:** 4.0grams (As marked on the bottom of the float)



### 9. Air Screw

#### 9.1 Diameter of Air Screw Orifice.

**GO Spec:** 1.10 mm (GO)

**NO GO Spec:** 1.3 mm (NO GO)



**9.2: Diameter of tip end:** 0.9mm  $\pm$ 0.05mm

**9.3: Diameter of tip:** 1.2mm  $\pm$ 0.05mm



**9.4: The Air Screw must be fitted with O-ring, washer and spring as illustrated.**

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## A Other Dimensions

### A.1 Diameter of Throat.

The throat diameter must be checked from both sides of the carburetor.

**Spec:** 18.0mm  $\pm$  0.05mm

**GO Spec:** 17.95 mm (GO)

**NO GO Spec:** 18.05 mm (NO GO)

### A.2 Diameter of hole A2 as illustrated

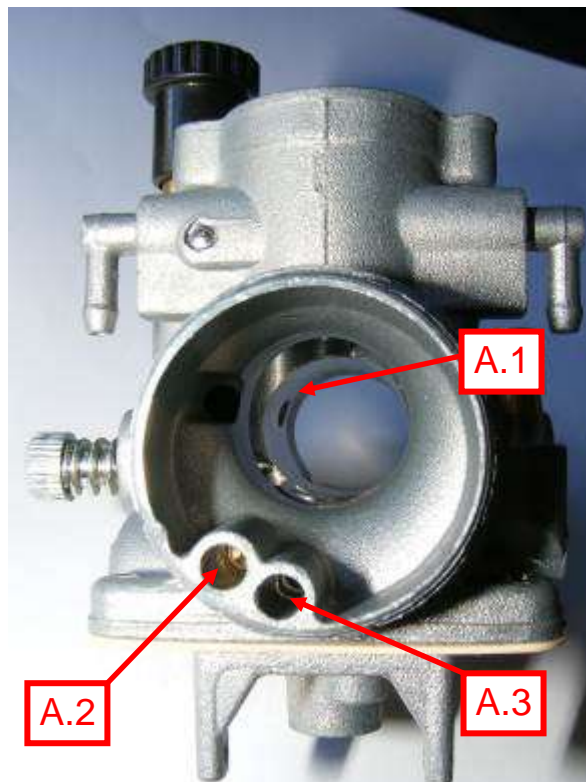
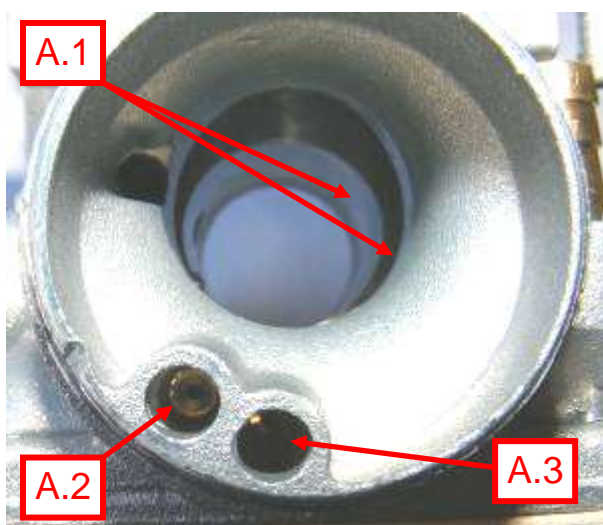
**GO Spec:** 1.00 mm (GO)

**NO GO Spec:** 1.10 mm (NO GO)

### A.3 Diameter of hole A3 as illustrated

**GO Spec:** 2.50 mm (GO)

**NO GO Spec:** 2.60 mm (NO GO)



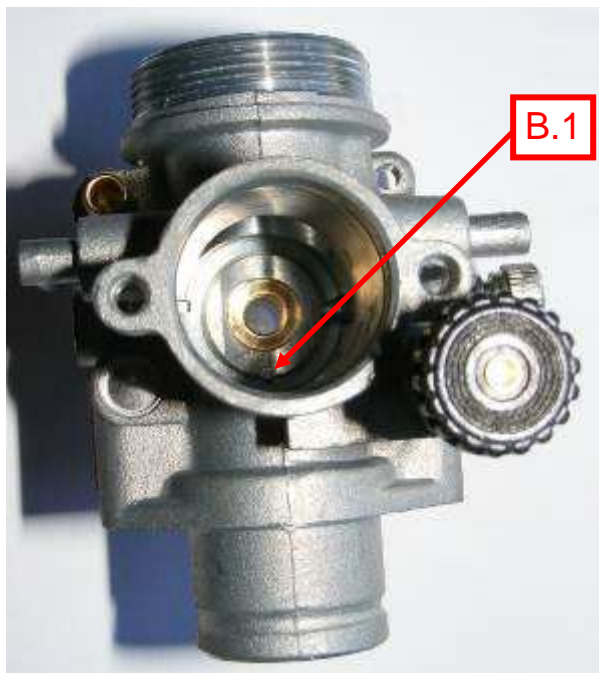
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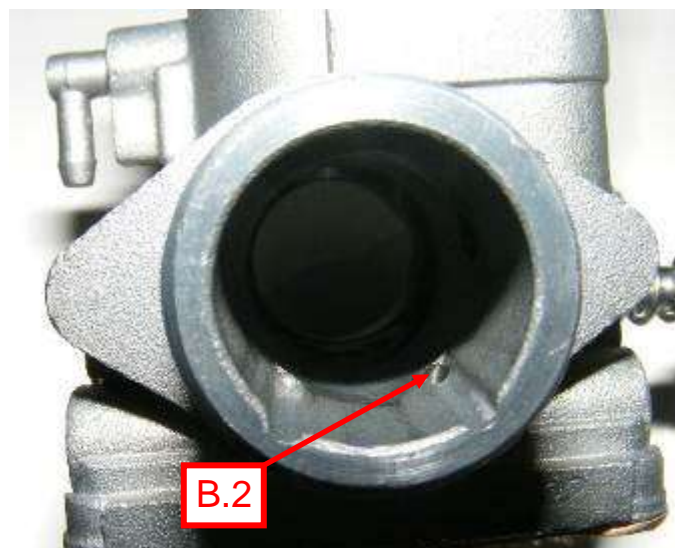


## MINI ROK

- B.1** Diameter of hole B1 as illustrated  
**GO Spec:** 1.10 mm (GO)  
**NO GO Spec:** 1.30 mm (NO GO)



- B.2** Diameter of hole B2 as illustrated  
**GO Spec:** 1.0 mm (GO)  
**NO GO Spec:** 1.1 mm (NO GO)



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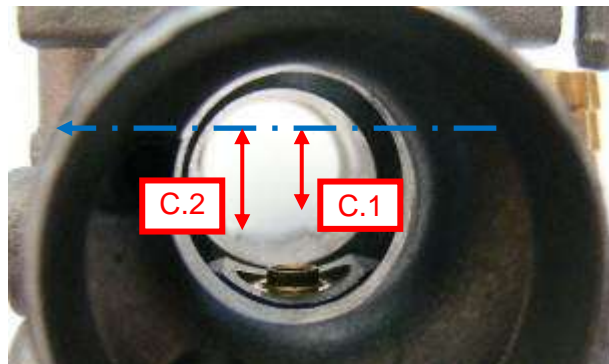
## MINI ROK

### ITEM C IS ONLY FOR REFERENCE UNTIL FURTHER NOTICE

#### C Emulsion Tube and Insert Protrusion (MINI ROK)

Dimensions are from the center line of the 18.00mm Bore.

**C1 Spec:**  $7.2 \pm 0.5\text{mm}$   
**C2 Spec:**  $9.5 \pm 0.5\text{mm}$



#### D. General

- The over flow nipples may be turned in any direction
- An overflow pipe may be fitted
- Some carbs have a brass insert fitted inside the overflow tubes (Supplied from Dellorto) on the inside of the carb. This is to prevent "Break through" of internal channels and is permitted

List of tools required
Vernier
17.95mm GO Gauge
18.05 NO GO Gauge
Drill Bits, "GO / NO GO" Gauges Required (mm)
0.5
0.55
0.6
0.65
0.8
0.85
1
1.1
1.2
1.3
1.45
1.55
2.5
2.6
2.66
2.69
2.75
3
3.1

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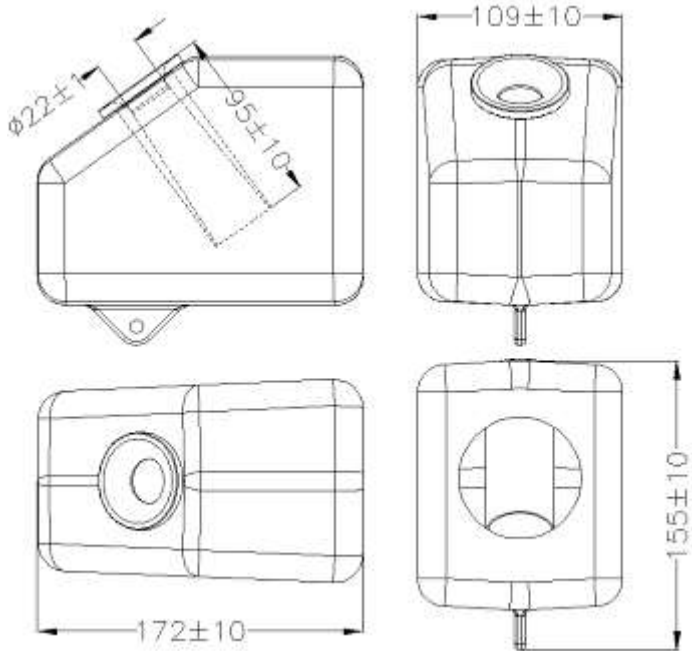
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## MINI ROK

**Please Note:** This is a working document and will be updated as and when required.  
Should any discrepancies / queries regarding the document arise; the technical working group will investigate and take the required action.

INLET SILENCER	
MODEL TYPE	MINI
	

### CONNECTOR FIXING FILTER-CARBURETOR IN PLASTIC MATERIAL



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