

1. **NAME OF COMPONENT** – Head Cover (with PRV)

2. **DRAWING. NO.** - 5064224

3. **MATERIAL** – Aluminum Alloy Chilled Casting

4. **WEIGHT** – 14 kg

5. **Dimension** - diameter 555 mm

6. **MECHANICAL PROPERTIES :**

The test specimen when tested in accordance with IS : 1608 shall the following tensile properties:

Methods of casting	Tensile strength N/mm <sup>2</sup> , min	% Elongation on 5.65√So gauge Length, min.	Hardness BHN, min.
Sand	—	-	55
Chill Cast	170	3	65

7. **CHEMICAL TEST :**

The chemical composition of the material, when analyzed in accordance with IS : 504 (Methods for chemical analysis of Aluminum its alloys) or any other **conventional/** instrumental methods shall be as follows :

Element	Percent	
	Min	Max.
*Copper	-	0.1
Silicon	10.0	13.0
Magnesium	0.2	0.6
Iron	-	0.6
Manganese	0.3	0.7
*Nickel	-	0.1
*Zinc	-	0.1
*Lead	-	0.1
*Tin	-	0.05
*Titanium	-	0.2
Aluminum	Remainder	

\* These elements need not be determined when the material supplied conforms with the mechanical and electrical properties specified in this specification. However, the supplier shall ensure that the composition of the material lies within the limits specified above.

