

SHIELDED BREATHER PLUG

Any OIL LUBRICATED MACHINE has to have a VENT/ Breather Plug. The hot oil/air vapour escapes from this Vent/Breather. We need to understand the difference between VENT and BREATHER.

(a)VENT* It allows hot oil/air vapour to go out * It also allows external contaminants Like dust, other particles to enter the Sump *It often gets CHOKED

WHY VENTS GET CHOKED?

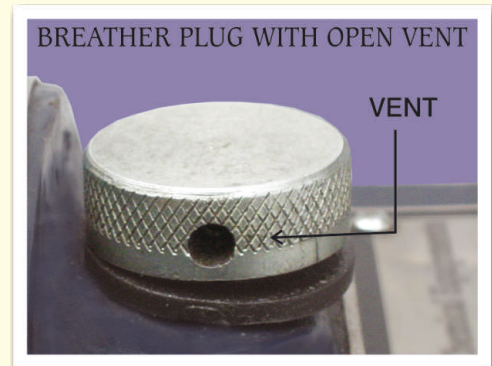
A Vent has a small 2.0/2.5 mm hole. Ref. Fig 1. Oil/air vapour which escapes is slightly STICKY and slowly makes a paste picking up dust & suspended particles. In a few months the VENT GETS CHOKED.

WHAT HAPPENS WHEN VENT GETS CHOKED ?

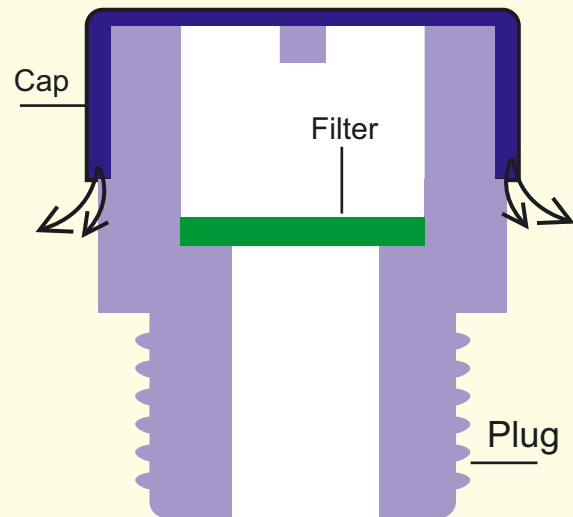
The oil/Air vapours is not able to ESCAPE.

THE CONSEQUENCES

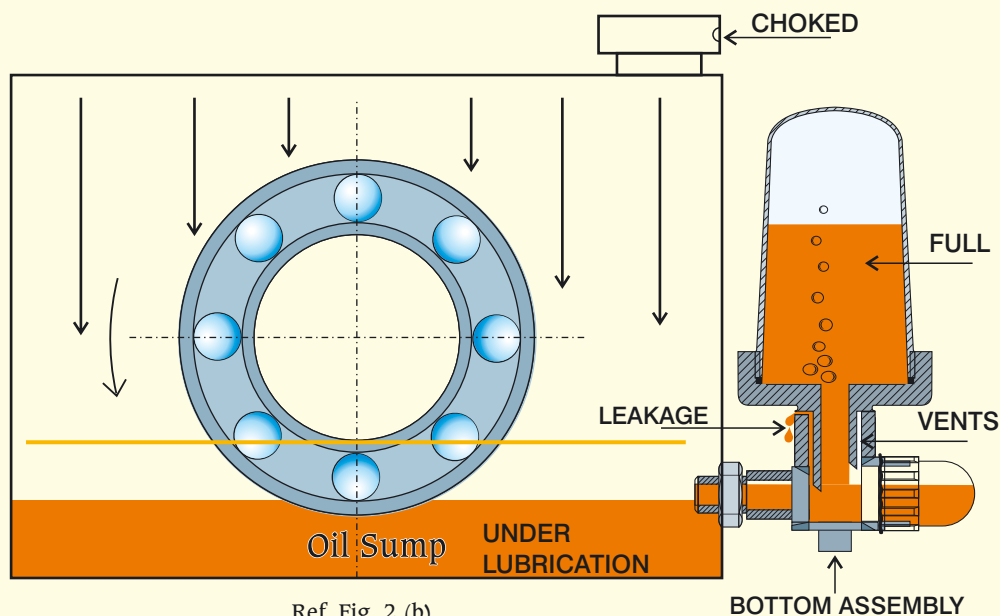
- Oil Level in bottom assembly of oiler rises causing LEAKAGE. Fig. 2(b)
- Temperature of oil within sump RISES, this causing REDUCED OIL VISCOSITY, thus losing its LUBRICATING PROPERTIES
- The pressure within the Sump rises this DOES NOT ALLOW oil from constant level oiler to go into the pump, giving a FALSE NEGATIVE output that there is adequate oil in the Sump, the bearing can run DRY, resulting in a breakdown. Ref. Fig. 2(b)
- In case of Gear Boxes there are chances of leakage from oil seals.



Ref. Fig. 1



Ref. Fig. 2 (a)



Ref. Fig. 2 (b)

The Solution – shielded BREATHER PLUG

It allows hot oil/air to go out but RARELY GETS CHOKED and also does not allow external contaminants to get in Ref. Fig. 2(a) 1)The plug has a rectangular Slot 5 X 2mm which rarely CHOKES Ref. Fig. 3(a) 2) A push fit Cap SHIELDS the plug from Top Ref. Fig. 3(d) 3) A cartridge Filter having a SS Jaali & TEN MICRONS BOROSILICATE Glass filter which does not allow external contaminants' to get in Ref. Fig. 3 (b). The filter cartridge is replaceable. You just need to open the Cap & replace the Filter Cartridge Ref. Fig. 3 (c)



CARTRIDGE

Ref. Fig. 3 (b)



Ref. Fig. 3 (c)



PLUG

Ref. Fig. 3 (a)



CAP

Ref. Fig. 3 (d)

A MAJOR REASON FOR OIL CONTAMINATION IN PUMPS, GEAR BOXES & COMPRESSORS IS VENT PLUG. THUS WHAT LOOKS SIMPLE AND HARMLESS, NEEDS TO BE UNDERSTOOD CRITICALLY.

MODEL SELECTION CHART

ITEM CODE	SIZE	TPI	OD
BP - 11 - 01	1/4" BSP	19	12.9 - 13.1
BP - 11 - 02	3/8" BSP	19	16.5 - 16.7
BP - 11 - 03	1/2" BSP	14	20.7 - 20.9
BP - 11 - 04	3/4" BSP	14	26.3 - 26.5
BP - 11 - 05	1" BSP	11	33.1 - 33.3

The product is not very satisfactory for applications having heavy moisture, for this you need Silica get Breathers.

Mfd. By:

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