

THE CB TYRE INFLATION DIVERTER VALVE

Vehicle Tyre Inflators

Many vehicles have an on-board tyre inflator for tyre pressure maintenance away from base. For vehicles which go off-road, the inflator can be used to re-inflate tyres after driving at reduced tyre pressures (to improve traction and reduce ground pressure).

Re-inflation can, however, be a problem due to the ineffectiveness of most on board tyre inflators. This causes problems because:

- Most brake air systems are governed to 90-110 psi and many truck (and trailer) tyres are well above this and therefore cannot be completely re-inflated. Running on the road with under inflated tyres is dangerous and illegal.
- The pressure in the supply reservoir drops as the tyre is inflated. The compressor does not cut in again until the pressure has dropped as low as 65 psi. This means that to complete the inflation, the air pressure has to be dropped (by pumping the brake pedal) to make the compressor cut in again. This is time consuming.
- Falling air pressure in the reservoir slows the rate of inflation.
- Many vehicle tyre inflators require one man to hold the inflator end onto the tyre and one man to operate the control on the vehicle.

The CB Tyre Inflation Diverter Valve



The CB Tyre Inflation Diverter Valve (TIDV) is installed directly in the pipe between the vehicle air compressor and the brake air system. During normal driving and use the TIDV allows free passage of air to the brake air system. When the tyre inflator hose is connected to the TIDV, the whole of the compressor air flow is diverted to inflate the tyres. Up to 150 psi is readily available from the compressor.

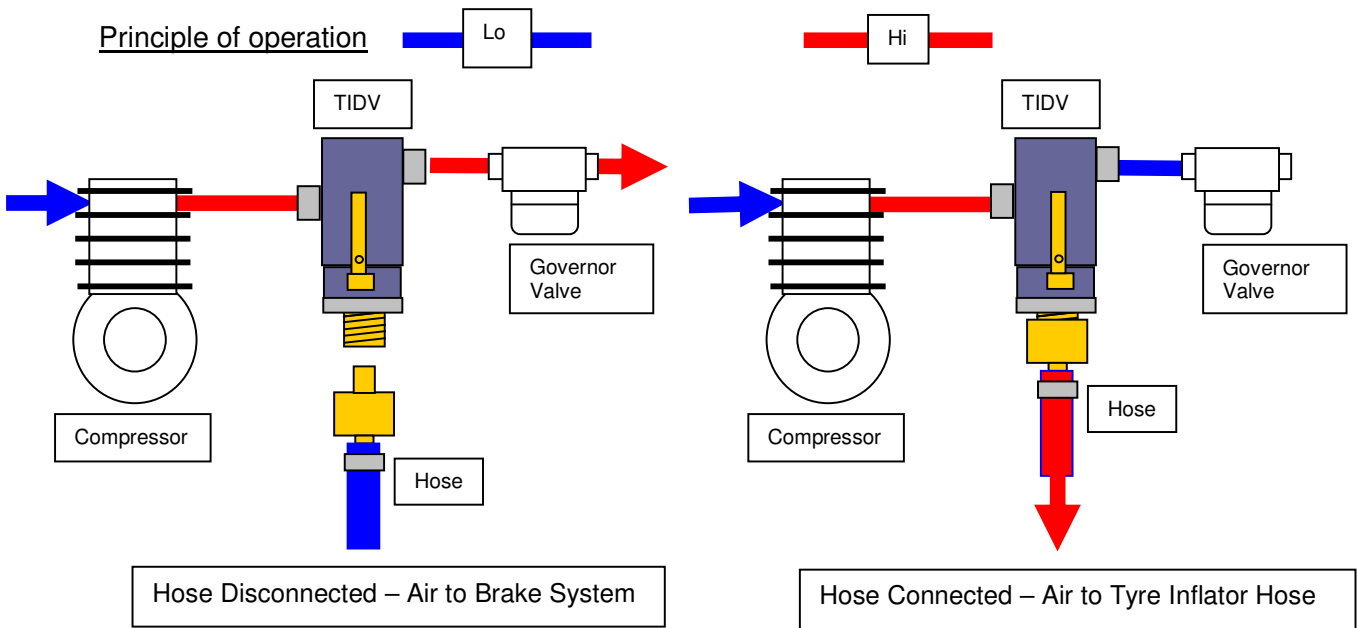
The TIDV gives much more effective and rapid tyre inflation because:

- The available pressure allows complete inflation of the tyres above all normal limits.
- The air flow is independent of the normal pressure governor (or unloader) and is therefore uninterrupted.
- The inflation pressure is high and constant
- One man operated system.

Tyre Inflator Hoses and Valve Connections

All CB tyre inflator hoses are made from high specification material.

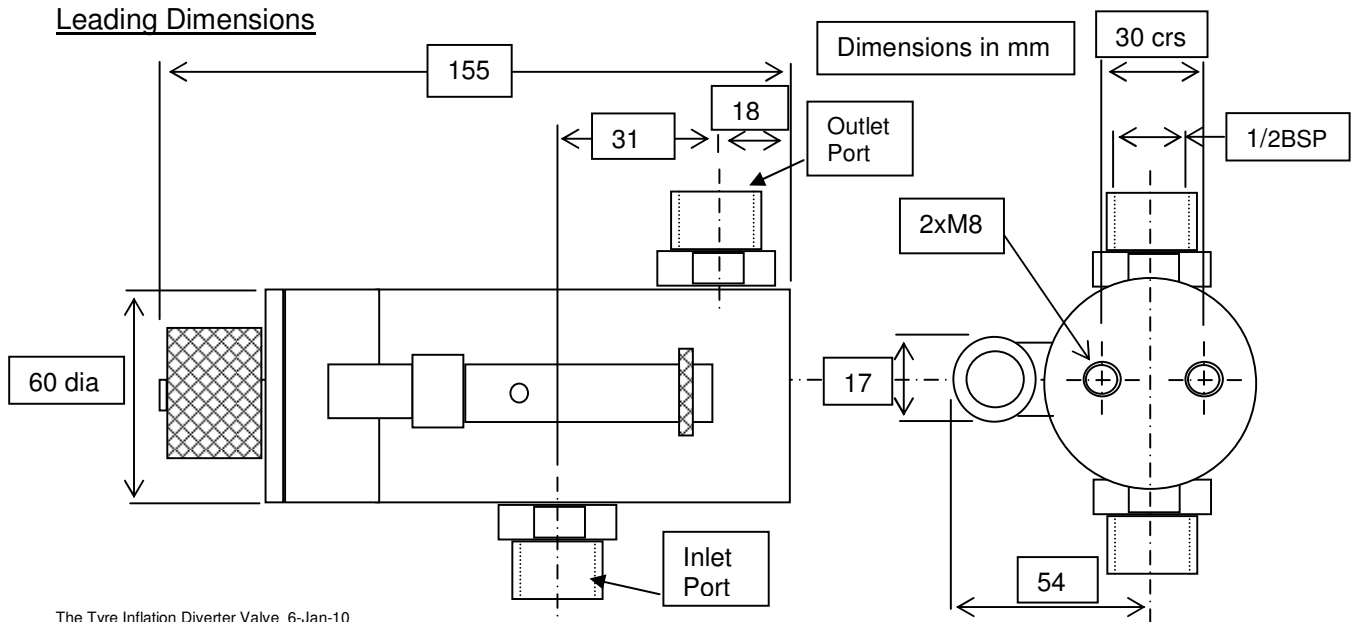
Tyre valve connections are available for all types of vehicles. (see separate sheet for hose description)



Inflation Times

Start Pressure (lbf/sq.in)	Finish pressure (lbf/sq.in)	Time (min.-sec.)	Tyre Size	Engine Size (litres)
32	60	3-50	24R21	11
58	98	3-00	16.00R20	12
15	60	4-30	14.00R20	8
0	70	5-25	13.00R20	6

Leading Dimensions



The Tyre Inflation Diverter Valve 6-Jan-10

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