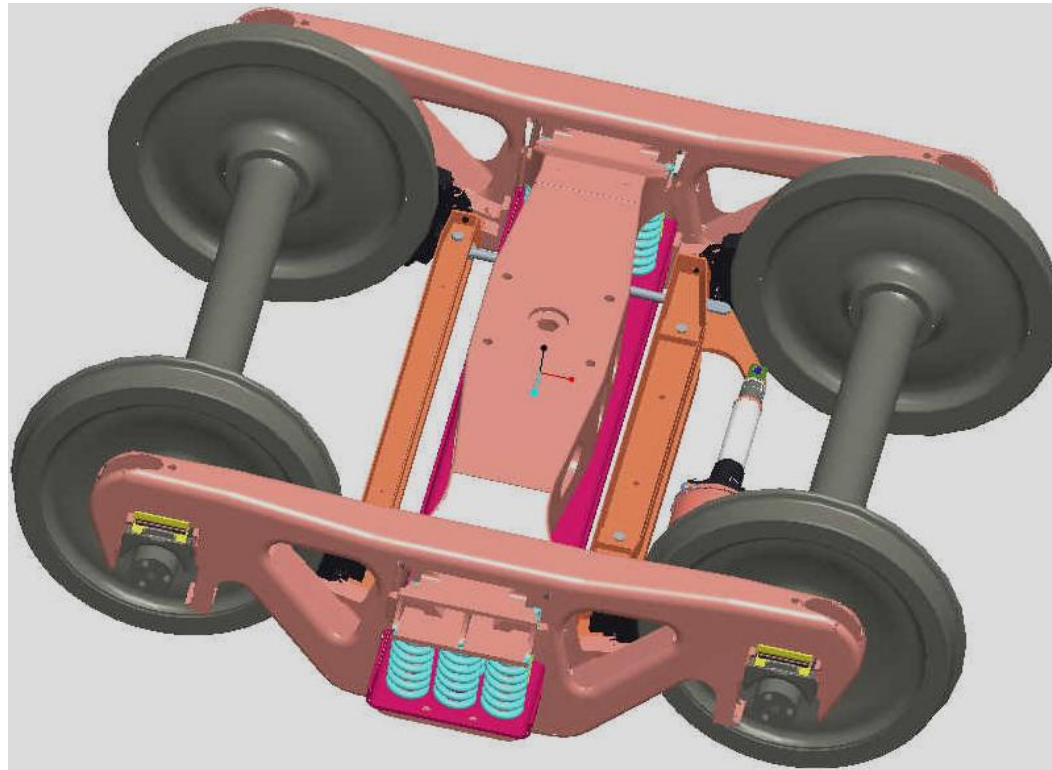


Bogie Mounted Brake System
For Freight Stock
On Indian Railways
STC/SBC

Bogie Mounted Brake System

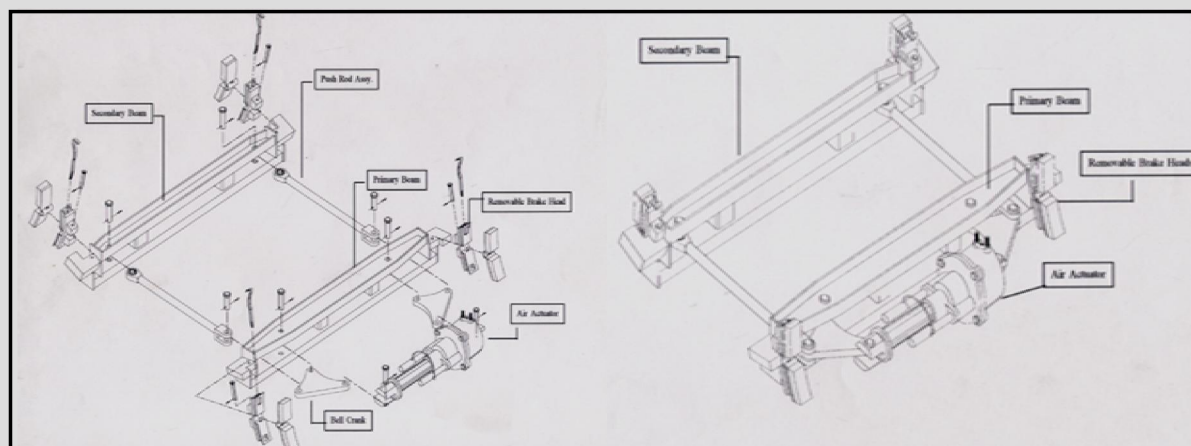


In BMBS, the Brake Actuating parts like Brake Beams and Brake Cylinder are fitted on the bogie

Hand Brake System of BMBS



BRAKE EQUIPMENT INSTALLED IN CASNUB BOGIE



- Drop in Fit Product. New Brake Beams to slide in the existing chutes of Bogie
- Re-setting of Slack Adjuster is automatic and can be done from the side of wagon by using a crow bar.
- Very easy to assemble, no special training or tools required
- No modification required in existing bogie for retrofitment

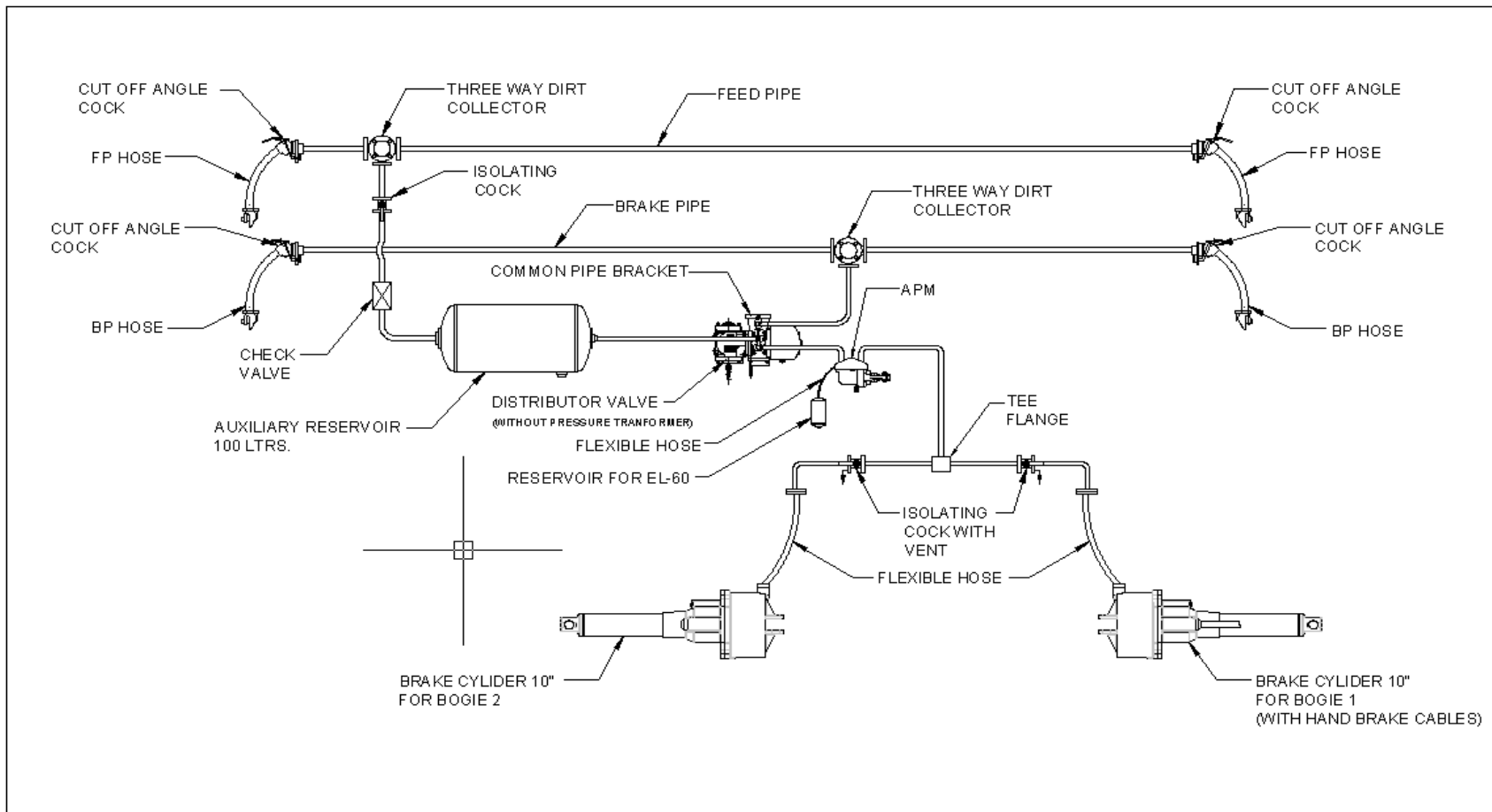
Salient Points

- **Equal brake shoe force - higher performance.**
- **Brake Cylinder with built-in double acting Slack Adjuster.**
- **Simplifies brake design. Suitable for all types of wagons.**
- **Ease of on-car maintenance modular brake cylinder, removable brake heads.**
- **Cable-actuated handbrake not affected by bogie rotation.**
- **Lower installation time and cost**
- **Retrofittment on Casnub Bogie without modification / welding**

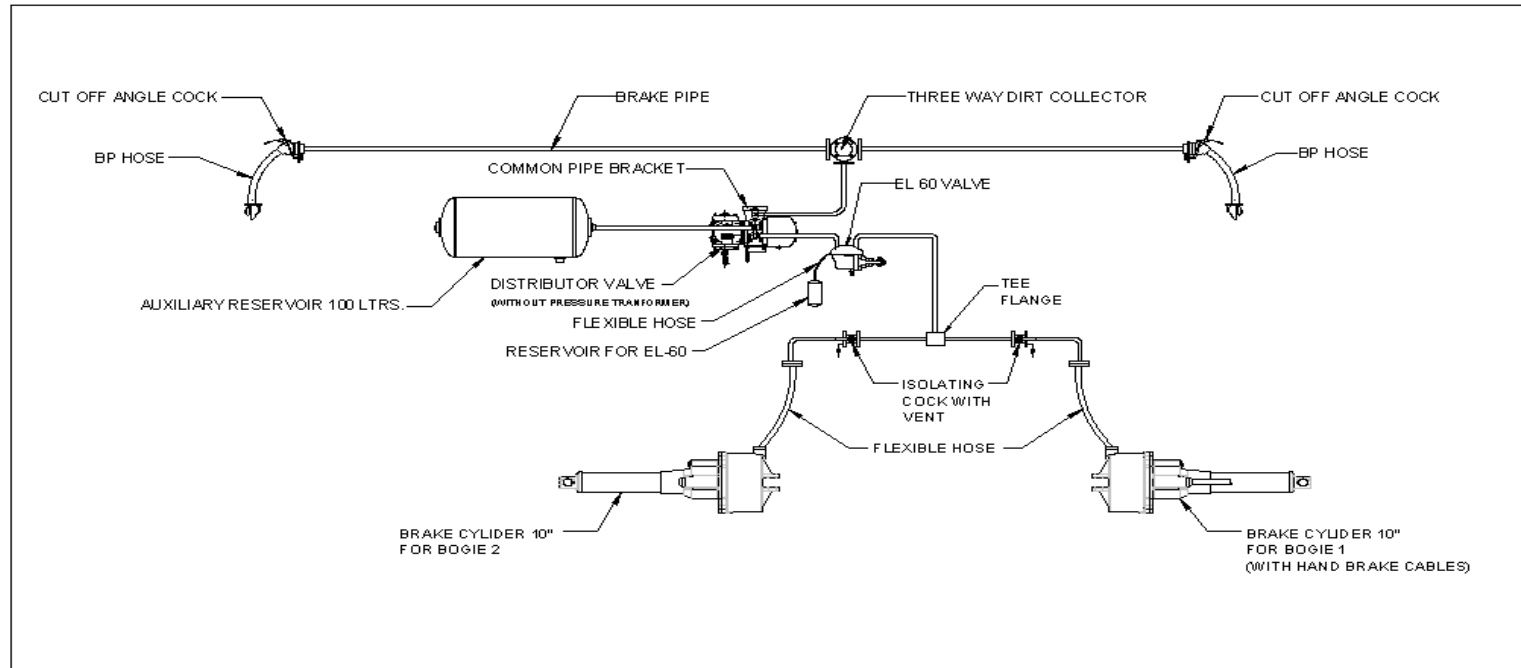
Advantages of BMBS

- Improved Braking Efficiency
- Uniform Shoe Wear and wheel wear
- Increased Reliability
- Easy Maintenance
- Lighter and compact system
- Brake force is almost half as 'K' type CBB used
- Wear and tear of components is less
- Automatic adjustment of brake force for empty & Loaded
- Lesser maintenance requirements
- Reduction in wheel wear as compared to conventional brake system
- Possibility of use of space between two bogies

SCHEMATIC DIAGRAM FOR GRADUATED RELEASE TWIN PIPE AIR BRAKE SYSTEM WITH BOGIE MOUNTED BRAKE SYSTEM



SCHEMATIC DIAGRAM FOR GRADUATED RELEASE SINGLE PIPE AIR BRAKE SYSTEM WITH BOGIE MOUNTED BRAKE SYSTEM



AUTOMATIC PRESSURE MODIFICATION DEVICE (APM)

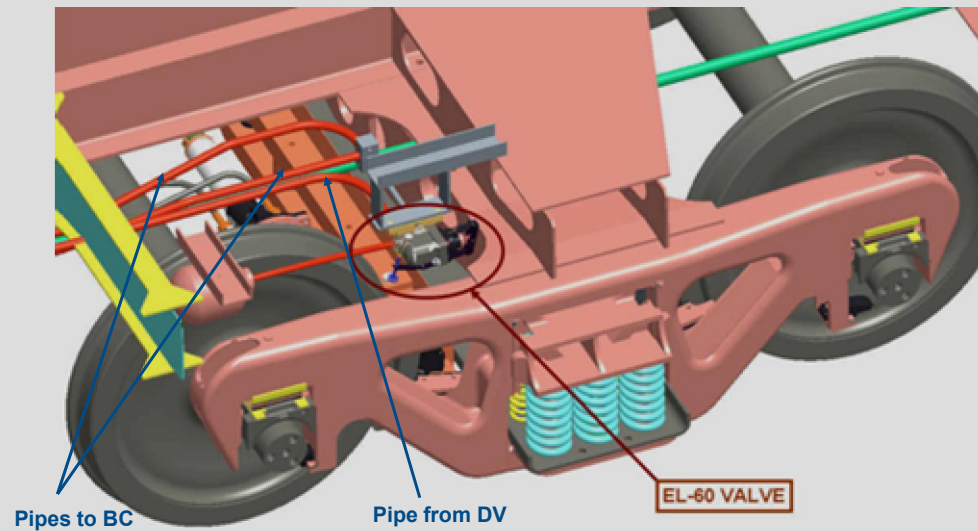


Features Of APM

- Two stage Distributor Valve not required. Standard DV of BOXN type can be used
- Installed between Distributor Valve and Brake Cylinder.
- Mounted on under frame, Deflection of Bolster taken against side frame
- Physical contact of lever with side frame only during braking
- Angular type of Lever , hence no bending movement
- Can be easily adjusted on the wagon

Load Sensing Device EL-60

Installation



Four firms have been shortlisted by Railway Board for bogie mounted brake system

1. M/s Knorr Bremse (I) Ltd. Faridabad for 150 BTPN wagons
2. M/s Escorts Ltd. Faridabad for 160 BOBRN wagons
3. M/s Faiveley transport (I) Ltd., Hosur for 50 BOBRN wagons
4. M/s Stone India, kolkata for 50 BTPN wagon