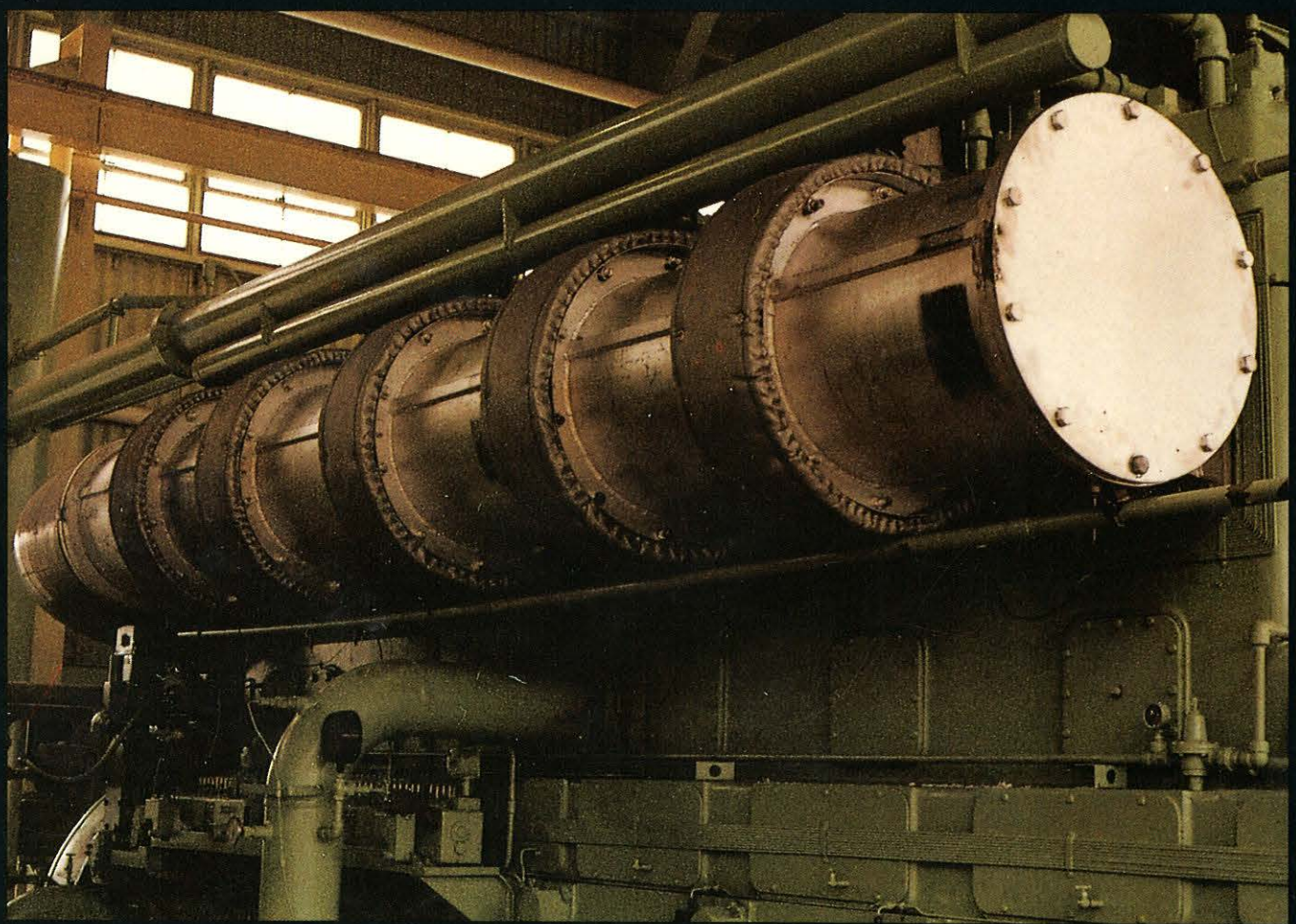
AMERICAN BOA INC

Engine Exhaust Manifolds



A Manufacturer of Expansion Joints, Flexible Metal Hose and

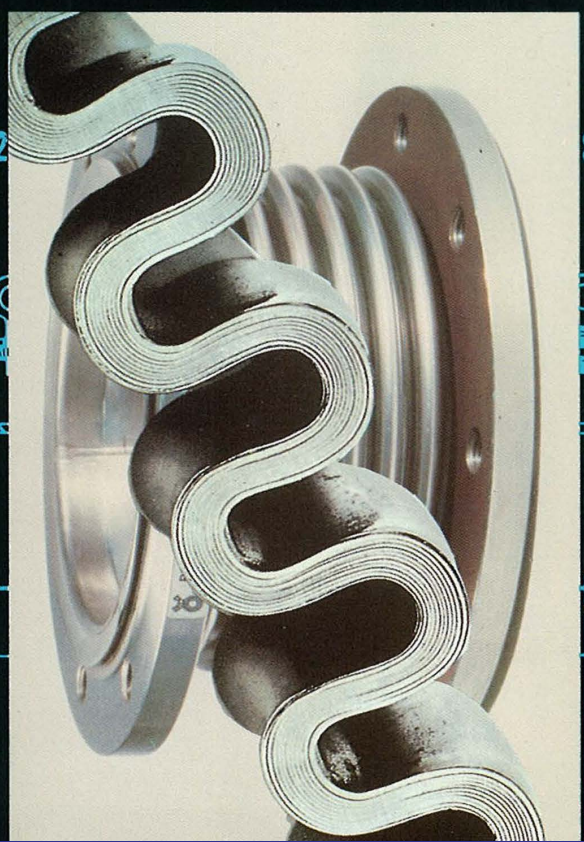
REASONS AMERICAN BOA

REDUCED ENGINE DOWNTIME

Bellows type Expansion Joints do not have the leak problems experienced with slip joints or exhaust packings.

IMPROVED ENGINE EFFICIENCY

Leak-Tight Expansion Joints and Manifold sections provide maximum exhaust flow to the turbocharger. Insulation is not destroyed by leaking exhaust gas, therefore, heat losses are minimized and turbocharger efficiency is maintained.



MODULAR SECTIONS

Most manifolds are designed as modular sections connected by flanged Expansion Joints. This provides for easy handling, installation and replacement.

REDUCED FORCES ON ENGINE BLOCK AND MANIFOLD

BOA Multi-Ply bellows design provides maximum flexibility and, therefore, minimum springforces. The dampening effect of the multi-ply bellows reduces vibration transmission, thereby lowering bolt stresses and manifold cracking due to fatigue.

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MANIFOLDS ARE SUPERIOR

MANIFOLD SECTIONS FREE OF THERMAL STRESS

Dual shell Manifolds with insulation between the shells impose Thermal Stresses in the duct and manifold connections due to the temperature difference between inner and outer shells. American BOA's design allows for free expansion of the outer shell to prevent any thermal stresses which cause cracking of the manifold.

EASY MAINTENANCE

Bolts on flanged connections between the manifold sections are not covered with insulation, allowing easy access for retightening.

EASY INSPECTION

A removable Blind Flange is usually provided at the end of the manifold to allow for inspection of critical manifold parts, the inner shell and expansion joints.

HIGH QUALITY

Pride is taken by our Engineers and Craftsmen to insure high quality and reliability. Manifolds

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