

Custom Hoses



Extruded, molded and mandrel-formed hoses are custom-designed for a wide variety of applications, specialized for various performance and environmental needs with wide operating temperature ranges, chemical exposure resistance and burst and vacuum pressure performance.

Boyd's custom hoses can be designed to meet industry standards like SAE J20, SAE J30, SAE J2045, ASTM D2000, DIN 73411 and DIN 73379 as well as custom performance specifications. Compound selection and manufacturing processes are tailored to the specific performance needs of each unique application.

Common Applications

Air intake hoses & ducting

Clutch hoses

Custom radiator hoses

Exhaust tubing

Extruded hoses

High pressure hoses

High temperature silicone hoses

Hose assemblies including clamps
& connectors

Louver drain hoses

Low pressure hoses

Mandrel-formed hoses

Molded hoses

Power steering hoses

Pneumatic pressure hoses

Turbocharger hoses



Custom Hoses

Common Materials

Rubber

EPDM (ethylene propylene diene monomer)

NBR (nitrile rubber), NBR/PVC, NBR+CSM

CM (chloropolyethylene), CR (chloroprene)

ECO (epichlorohydrin)

ACM (acrylate copolymer)

AEM (ethylene acrylate rubber)

FKM (fluoroelastomer)

Silicone

Plastic

PET (polyethylene terephthalate)

HDPE (high density polyethylene)

Metal

SS304 & SS316 (stainless steel grades)

Fittings: PVC, aluminum, bronze, stainless steel &

HENN quick connectors

Special Characteristics & Solutions

Various manufacturing methodologies to achieve specific design requirements including:

Extruded & mandrel-formed for cost sensitivity

Mandrel-formed for difficult hose shapes & sizes

Mandrel-wrapped for high temperature & pressure

Molded hoses (compression, injection & blow molding for unique shapes & over-molded connectors)

Reinforcements (internal & external) for burst & vacuum pressure weaknesses in design

Cloth, nomex & metal inserts to improve hose strength

Compound selection & design to resist abrasion, corrosion, ozone, UV, weather & salt water

Custom designed to length, diameter & thickness

Flame retardant

Full hose assemblies including fittings, connectors, nuts, bolts & reinforcements

High to low pressure ranges

High to low temperature ranges

Boyd Corporation has over 90 years of customer-focused performance success and is a global leader in advanced sealing, thermal management and protection solutions. Empowering human curiosity through the safe exploration of space. Enhancing the safety and flexibility of medical care and transportation. Enabling faster, brighter, more functional technology with greater power density. From self-driving cars to brain surgery, space stations to smart farming, high powered computing devices to wearable medical technologies. As our customers redefine their markets and technology - unique solutions from Boyd empower them to be possible.

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- Replicated Manufacturing Technology Across 10 Countries •
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