

Hose basics

Everything you need to know.

Hose Hint

Use the layline of the hose as a visual index when routing and tightening the assembly to ensure the hose is not twisted or kinked.

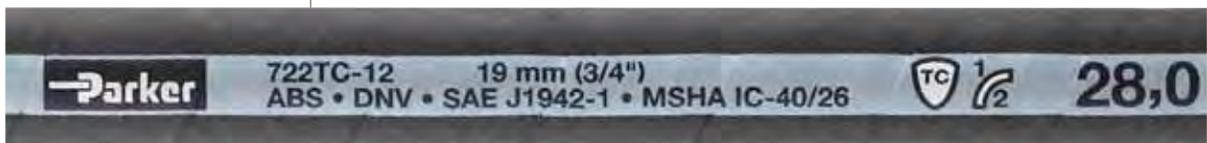
It's all in the family

At Parker, we believe the best hose for your operation is the one that gets the job done right — no more, no less. That's why we offer you a comprehensive line of hoses, as well as all the options that go with it. Worried about price?

Abrasion?

We've got you covered

Our expanded line of abrasion-resistant hose offers you a world of protection, not to mention a choice of covers: Tough Cover (TC) for tough environments; and SuperTough (ST) for the really rough stuff.

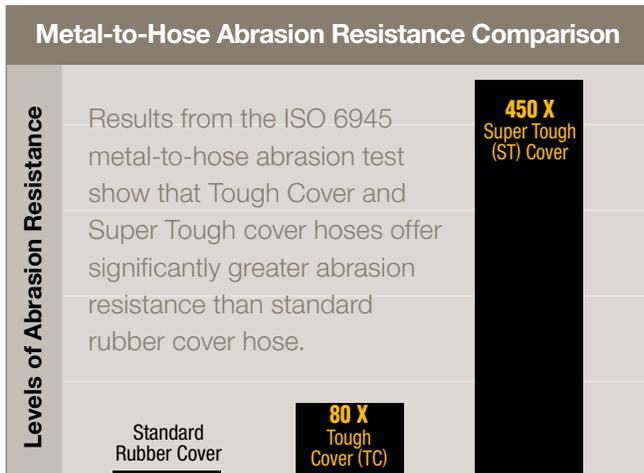


We've got rubber hoses that are an exceptional value. Need hose that can take the heat? We've designed hoses for that. Looking for hose to handle the most demanding conditions? No problem. We have hoses made specifically for high temperatures, tight bending, abrasive environments, and more.

Not sure what hose you need? Talk to our experts. They're trained to know, and they're happy to help.

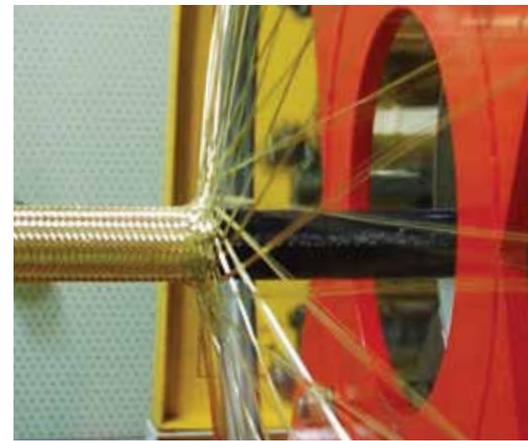
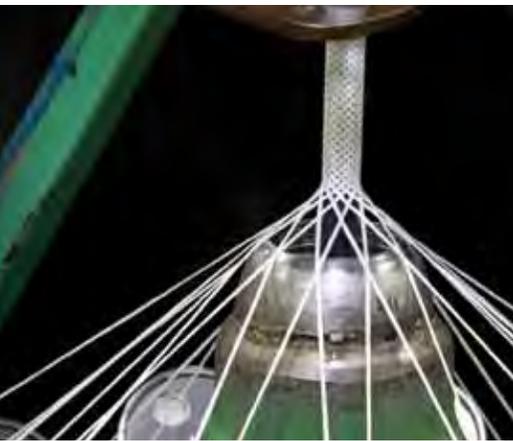
Our TC- and ST-covered hoses can simplify your assemblies by eliminating the need for any additional protective sleeving.

From the superior flexibility and tighter bend radius of our wire-braided hoses... to the wide fluid compatibility and high pressure performance of our No-Skive spiral hoses... our expanded family of abrasion-resistant hoses gets the job done right, giving you the results you need in the construction, forestry, mining, injection molding, refuse and recycling, and energy industries.



Optional Covers

Type	Features
Tough Cover (TC) 	Very good abrasion resistance. Fair resistance to ozone and cold flexibility.
Super Tough (ST) 	Excellent abrasion resistance. Very good resistance to ozone and cold flexibility.



Braided vs. spiral hose

Hydraulic hose can be referred to by construction style, of which there are two main types: braided and spiral. The majority of “low-pressure hoses” have a textile braided construction. They’re commonly used to transmit petroleum-based fluids, diesel fuel, hot lubricating oil, air, ethylene glycol anti-freeze, and water.

“Medium-pressure hoses” typically feature one- and two-wire braided construction. These hoses are frequently found on construction equipment, heavy-duty trucks, and fleet vehicle applications. In general, braided hose is selected for its flexibility.

At one time in the industry, two-wire braided hose was most commonly used in many applications. But the advent of larger, off-road specialty equipment drove the creation of spiral hose, which is very well suited for applications where extremely high impulse pressure is encountered.

Today, hydrostatic drives using four and six-wire spiral hoses can be found on everything from lawn tractors to earth movers. Because today’s world demands faster, more powerful equipment requiring increased working pressures, Parker is responding with an expansive offering of spiral products.



Contact your local Parker distributor to see the full range of hose choices, and to discuss their various applications.

Inner beauty

The inner tube of a hose is offered in several different rubber compounds. Each rubber compound can react differently to the media being conveyed. The inner tube must also resist effects of high or low temperatures and environmental elements. The table on the right highlights popular rubber compounds used for hose inner tubes:

Inner Tube Compounds	
Type	Features
PKR® Rubber	Excellent resistance to ozone and weathering; good heat resistance. Good resistance to petroleum-based fluids.
Synthetic Rubber	Excellent resistance to petroleum-based fluids and environmentally friendly fluids.
Butyl Rubber	Very good weathering resistance. Good physical properties. Poor resistance to petroleum-based fluids.
EPDM Rubber	Excellent resistance to phosphate ester fluids and dry air. Poor resistance to petroleum-based fluids.

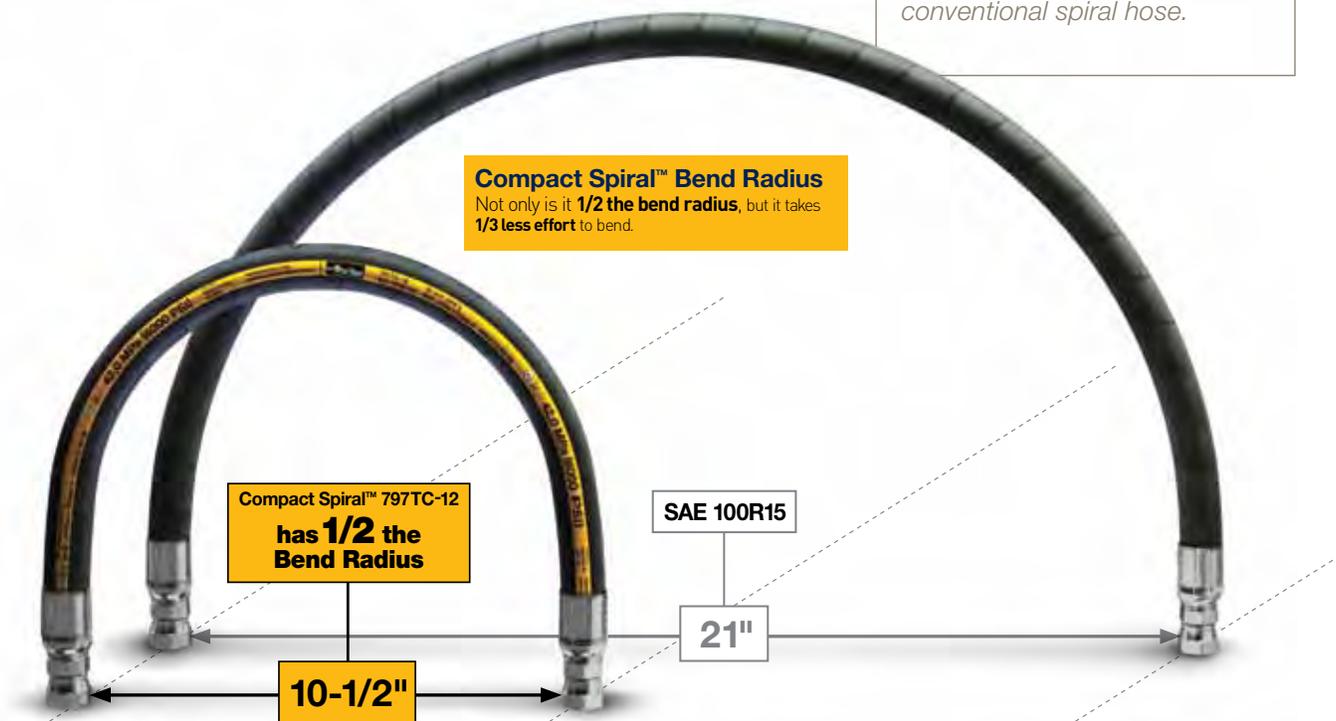
Strong like spiral bends like braided

Looking for flexible hose that can be routed in tight spaces?

Parker has a full line of hoses designed for one-half SAE bend radius at full SAE pressure. These hoses plumb and bend tighter than other SAE 100R1, 100R2,

100R4, 100R12 and 100R13 type hoses, reducing hose length requirements by up to 47%. The tighter bend radius means fewer bent tube fittings, and longer life in applications where machinery movement causes hoses to bend sharply. It also means reduced inventory requirements for you.

Compact Spiral Hose has half the bend radius of its SAE counterpart and a significantly smaller bend radius than corresponding-size Parker conventional spiral hose.





Our layline is easier to read

Our new layline presents the most important information in an easier to read format. And the performance icons make it easier to identify what elements pertain to that hose.

The layline, or printing along the length of a hose, contains a wealth of useful information about that product. Inside diameter, maximum working pressure, part number, industry standards that the hose meets, and even manufacturing date are among the information supplied.

PERFORMANCE LEGEND

					
Half SAE Bend	Tough Cover	SuperTough Cover	High Temperature	Low Temperature	Compact

