



TEFLON (PTFE) HOSE INDUSTRIAL FLUID MANAGEMENT SOLUTIONS

RELIABLE
INDUSTRIAL PRODUCTS CO.

**CUT AND
COUPLE**
ANY HOSE | ANY LENGTH | ANY TIME



STAINLESS STEEL BRAIDED TEFLON

Cut & Couple / Reliable Industrial Products's **Teflon Division** focuses on long-term solutions for the everyday application to the more demanding fluid management systems. Whether your setup requires the handling of corrosive media, extreme temperatures, constant pulsing & flexing, or is under pressure/vacuum, our Teflon (PTFE) products are sure to prove to be rugged, dependable and of quality craftsmanship.

PTFE (Polytetrafluoroethylene) is an engineered fluoropolymer whose unparalleled resistance to chemicals is but one of PTFE's exclusive attributes. Compared to its hydraulic, industrial rubber and metal hose counterparts, teflon has many advantages including:

- **CHEMICALLY INERT:** a virtually universal hose which handles the broadest range of media and will not break down or deteriorate in service.
- **TEMPERATURE RESISTANCE:** from steam down to cryogenic systems, one hose for all environments and easy to clean.
- **MOISTURE RESISTANCE:** inherently low dew-point for pneumatics and compressed air.
- **FLEXIBILITY:** no "flex-fatigue" from continuous pulsing and vibration.
- **SHELF-LIFE:** teflon inner-core will not degrade with time or weather exposure.



INDUSTRIES SERVED

Teflon has assimilated itself into every market due to its "one-hose-for-all-situations" reputation. With a very low coefficient of friction, PTFE provides a non-stick surface that is excellent for both paint manufacturers and air compressor systems alike. Its broad temperature range makes this material ideal for Robotics and Reaction Injection Molding. The Food & Beverage industry relies heavily on teflon due not only to its ease of cleaning (inert to steam & caustic) but also because PTFE is FDA-approved. You simply won't find an application where our Stainless Steel Braided Teflon isn't found.

AUTOClaves	HOT PRESSES / PLYWOOD / LAMINATES
AUTOMOTIVE / BUSES / MARINE	MACHINERY / PUMPS / TURBINES / ENGINES
BREWERY / WINERY / DISTILLERY	MEDICAL / PHARMACEUTICAL
CHEMICALS / CHLORINE	MOLTEN PLASTICS / RIM / EXTRUSION
CIRCUITRY / ELECTRONICS	PAPER / PULP / DEHYDRATORS
CNG / LPG / COMPRESSED GAS	WATER PURIFICATION / REVERSE OSMOSIS

CONVOLUTED PTFE

A RELIABLE INDUSTRY
WORKHORSE MADE OF AN
EXTRUDED, SEAMLESS,
VACUUM-FORMED TUBE OF
OPEN PITCH CONVOLUTED
PTFE REINFORCED BY
A TOUGH STAINLESS STEEL
BRAIDING FOR KINK AND
ABRASION RESISTANCE.



NON-CONDUCTIVE



CONDUCTIVE

PART NUMBER		I.D.	O.D.	MAX WP	BURST PSI	BEND	WEIGHT
(Non-Conductive)	(Conductive)	(in)	(in)	(psi)	(psi)	RADIUS (in)	(lbs/ft)
WC-04OP	BC-04OP	0.28	0.484	2500	7500	0.709	0.12
WC-06OP	BC-06OP	0.374	0.6	2000	6000	0.787	0.23
WC-08OP	BC-08OP	0.505	0.74	1500	4500	0.984	0.27
WC-10OP*	BC-10OP*	0.625	0.87	1200	3600	2.008	0.35
WC-12OP	BC-12OP	0.75	0.97	1000	3000	2.52	0.43
WC-16OP	BC-16OP	1.0	1.29	667	2000	3.504	0.63
WC-20OP	BC-20OP	1.268	1.603	500	1500	5	0.75
WC-24OP	BC-24OP	1.50	1.9	435	1305	5.984	0.88
WC-32OP	BC-32OP	2.024	2.421	333	1000	7.874	1.11

*MADE TO ORDER - All pressures and vacuum ratings were calculated at 70°F

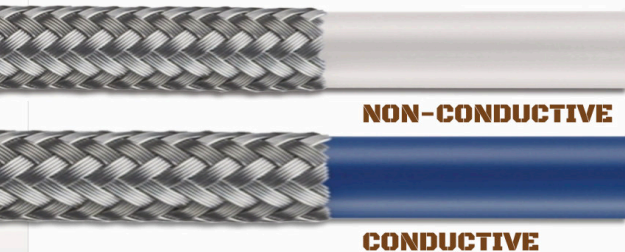
FITTINGS & FEATURES

- Temperature Range: -65°F to 450°F (-54°C to 230°C)
- Black tube "BC" series is static dissipative
- Open pitch aids in cleaning & self-draining
- Inert to steam cleaning and thermal cycling; hose will not delaminate
- Excellent for acids transfer, caustic sodas & steam applications
- Extremely flexible and easy to handle
- Can be autoclaved: zero absorption of any moisture and zero leakage over entire length of assembly



We stock a full-line of standard and specialty fittings for your convoluted teflon assemblies. These include flange, flange retainer, teflon-lined, male pipe, and JIC. Our fittings are permanently attached offering the customer a leak-proof assembly. Smaller, lighter in weight, and boasting the highest pull-off pressure rating in the market, Cut & Couple's convoluted fittings will save you weight and space all while being more reliable and safer than their re-useable counterparts.

SMOOTH BORE - MEDIUM PRESSURE



PRIZED FOR ITS EASE OF CLEANING, HIGH DEGREE OF FLEXIBILITY AND UNINTERRUPTED FLOW, OUR SMOOTH BORE HOSE IS IDEAL FOR THOSE APPLICATIONS WHERE THE UNIQUE QUALITIES OF PTFE ARE REQUIRED.

PART NUMBER (Non-Conductive)	PART NUMBER (Conductive)	I.D. (in)	O.D. (in)	MAX WP (psi)	BURST PSI (psi)	MINIMUM BEND (in)	WEIGHT (lbs/ft)
SB-03*	SBB-03*	3/16	0.234	3000	12,000	2.00	0.048
SB-04	SBB-04	1/4	0.312	3000	12,000	2.00	0.058
SB-05*	SBB-05*	5/16	0.375	3000	12,000	3.00	0.078
SB-06	SBB-06	3/8	0.445	2500	10,000	4.00	0.098
SB-08	SBB-08	1/2	0.549	2000	8000	5.20	0.126
SB-10	SBB-10	5/8	0.648	1500	6000	6.50	0.154
SB-12	SBB-12	3/4	0.778	1200	4800	7.70	0.190
SB-16	SBB-16	1	1.030	1000	4000	9.00	0.280
SB-20	SBB-20	1-1/4	1.135	800	3200	16.00	0.369

*MADE TO ORDER - All pressures and vacuum ratings were calculated at 70°F

FITTINGS & FEATURES

Cut & Couple stocks a wide selection of brass and stainless steel couplings for your smooth bore hose assemblies. These include compression tube end, hex male pipe, and female JIC swivel with back up hex. Our crimped fittings are permanently attached offering the customer a leak proof assembly over its entire length. This is not only safer, but inherently has less maintenance than re-useable fittings and thus lower operating costs.



- Temperature Range: -85°F to 500°F (-65°C to 260°C)
- Blue tube "SBB" series is static dissipative
- SS304 wire braid reinforcement: -04 thru -10 are rated for full vacuum.
- Manufactured from fine powder Phthalate-free PTFE
- Inert to chlorine, acids and solvents
- Outstanding non-stick performance make this hose optimal for compressed air and engine compartment applications
- FDA-approved and steam cleanable

SMOOTH BORE - ULTRA HIGH PRESSURE

SMOOTH BORE ANTI-STATIC
TRANSFER HOSE FOR HIGH
PRESSURE AND HIGH
TEMPERATURE SITUATIONS.
RUGGED LAYERS OF HIGH
TENSILE 304 STAINLESS
STEEL BRAIDING MAKE THIS
HOSE IDEAL FOR TOUGH GAS,
CHEMICALS AND FLUIDS.



PART NUMBER	SIZE (in)	I.D. (in)	O.D. (in)	MAX WP (psi)	BURST PSI (psi)	MIN BEND RADIUS (in)	WEIGHT (lbs/ft)
SBHP-04	1/4	0.222	0.375	5000	15000	1.5	0.10
SBHP-06	3/8	0.308	0.475	5000	15000	2.5	0.16
SBHP-08	1/2	0.403	0.600	5000	15000	2.87	0.23
SBHP-10	5/8	0.505	0.715	5000	15000	3.25	0.32
SBHP-12	3/4	0.630	0.970	5000	15000	3.87	0.66
SBHP-16	1	0.867	1.250	5000	15000	5.00	1.02

All pressures and vacuum ratings were calculated at 70°F

FITTINGS & FEATURES

- Temperature Range: -65°F to 400°F (-54°C to 204°C)
- Conductive PTFE inner-core eliminates risk of static burn in high-flow applications
- SS braiding eliminates need for spiral wraps, thereby reducing weight and increasing flexibility
- Additional braid layer on sizes -12 and above
- Phthalate-free, non-stick and non-leaching make this hose excellent for demanding conditions



All high-pressure PTFE assemblies are crimped so that the inner-core and fitting stem form a permanent assembly. This positive braid locking ensures hose integrity such that any strain is absorbed by the braid itself and not the teflon inner-core.

INDUSTRIAL APPLICATIONS

Compressed Air - higher pressure and temperature rating, and greater resistance to system vibration when compared to rigid metal and rubber hose.

Robotics - superior chafe resistance and extreme flexibility make for reliable and accurate hydraulic lines when dealing with fluids and hot oils.

Plastics - zero "shot" material contamination in RIM and Extrusion processing systems.

Aircraft / Aerospace - no leakage and zero absorption of moisture in high pressure, high heat autoclaves.

CHLORINE TRANSFER HOSE



- Temperature Range: -40°F to 120°F (-40°C to 49°C)
- Meets or exceeds the Chlorine Institute guidelines
- Extremely flexible with shallow, helical convolutions for fast and easy draining and cleaning
- Inert to chlorine, acids and solvents compared to metal hose
- Suitable for all Chlorine / Bromine related applications: loading hose, transfer hose, and sniffer hose
- Multi-purpose hose for pulp & paper manufacturing: rated for steam, condensate, and black liquor.

Chlorine is an incredibly important chemical whose "dry" and "wet" organic and inorganic derivations are found virtually everywhere from the paper and pulp industry to the processing of food & drug additives. However, Chlorine is one of the most difficult and hazardous chemicals to handle. Our special transfer hose is made of a Chlorine-inert convoluted PTFE inner-core, wrapped in a protective PVDF layer and covered in a Chlorinated Polyethylene (CPE) braid. Robust and reliable, our Chlorine transfer hose will stand up to your most demanding applications.

MADE TO ORDER - CALL FOR DETAILS

RUBBER COVERED HOSE

Cut & Couple's "anti-stick" rubber covered hose is a lightweight and flexible Blue EPDM rubber transfer hose with a high-purity fluorinated ethylene propylene (FEP) Teflon liner. Helical wire reinforcement allows for full vacuum service. The cover consists of multiple plies of fabric reinforced rubber ending with the innermost layer bonded to the FEP inner-core.

MADE TO ORDER - CALL FOR DETAILS



- Inert to oils and cleaning agents
- Non-stick FDA approved inner-core provides for easy drainage and cleaning (SIP/CIP safe)
- Temperature Range: -65°F to 300°F (-54°C to 148°C)
- Rubber cover offers reduced effusion and friction rates
- Stainless Steel and PTFE-lined fitting options

TEFLON SERVICES

HOSE COVER OPTIONS

Sleeves and covers provide additional protection for your investment; a longer service-life translates to lower operating costs. **Armor Guard's** metal wrap is as heavy duty as it is flexible. **Nylon's** abrasion resistant weave strengthens as it is worn. **Heat Shrink** is ideal for situations that demand cleanliness. **Fire Sleeve** wraps the hose in fiberglass with a bonded silicon cover to protect against extreme temperatures. Reduce kinking from severe flexing, dragging and bending with **Spring Guard**. Even color-coding hoses for quick reference is an option with our deep range of **Expandable Sleeve** color choices.



PRESSURE TESTING AND TAGGING

Cut and Couple's warehouses are equipped with custom-built pressure testing stations and we offer hydrostatic testing to 1.5 times the working pressure for all of our teflon hose assemblies as well as customizable stainless steel tagging. Tags are permanently attached and can contain any pertinent information such as fabrication date, hose ID, or working pressure. These services are available upon request and do not come standard.

PACKAGING / SHIPPING

All teflon hose assemblies are built in their own cell to negate cross-contamination from other parts of the warehouse. Finished assemblies are wrapped, bagged and carefully packed to prevent kinking during shipment. Protection is a priority and our threaded ends are routinely capped.

OEM HOSE SUPPLIER

As your OEM we help you solve key issues:

- Reduce your manpower
- Keep prices under control
- Keep inventory low with bi-monthly or monthly releases
- No wasted inventory (products received direct for resale)
- Product can be kitted to make easier for your staff
- All hoses assembled by certified hose technicians

We help you make your products better!



BUILD YOUR OWN ASSEMBLY

We are proud to offer our end-users their very own **online assembly builder** with which to build custom assemblies for fast turnaround times. This value-added benefit is part of our extensive network of services that include stocking, fabricating, welding, engineering, and inventory management.

**BUILD
YOUR OWN
ASSEMBLY**

OUR MISSION

*A team driven to
provide quality
hose solutions
through ingenuity,
passion and
commitment.*

ANY HOSE | ANY LENGTH | ANY TIME

OUR VISION

*The industry
leader of quality
hose assembly
technology.*



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