

Rubber Fab Technologies Group

Sanitary Hose Fittings & Adapters

*The Ultimate Source
for Manufacturers,
Fabricators, and
Design Engineers*



RUBBER FAB
technologies group

Rubber Fab Technologies Group

About Rubber Fab



Rubber Fab was founded in 1995 by Robert DuPont, Sr. and Patrick Parisi (former owners of Sani-Tech®) located in Andover, NJ. The business has grown through the market and sale of new, innovative products and was relocated to a new state of the art facility in Sparta, NJ in November 2008.

Rubber Fab Technologies Group is the leading innovator of high quality sanitary gaskets, hose, hose assemblies, tubing, pump, and filler machine components in a wide range of high purity and metal detectable and x-ray inspectable elastomeric materials. Rubber Fab manufactures, markets, and sells specialized trademarked products: Tuf-Steel®, Tuf-Flex®, Torque-Rite®, Smart Gasket®, Detectomer®, ADI Free®, Smart Clamp™, and Smart Port™.

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Rubber Fab Affiliate TBL Plastics

TBL Plastics was established in 2004 and became an affiliate company of Rubber Fab Technologies Group in 2011. TBL offers a fully integrated manufacturing capability which includes high purity injection molding and extrusion. They also offer a full line of non-metallic sanitary fittings and tubing in a wide variety of materials for various high technology industries. TBL manufactures a wide variety of high purity tubing for the Pharmaceutical, Dairy, Food & Beverage, Industrial and Semiconductor markets.

TBL
ThermoplasticBiologic
A RubberFab Technologies Affiliate

Disclaimer: The information provided within by Rubber Fab Technologies Group is deemed to be accurate; however, it should be used only as a general reference to aid in product selection and application. **Note:** A material's properties may be affected greatly by temperature, operating pressure, concentration, and the presence of other chemicals. Ultimately, the consumer/user must determine the compatibility of any material based on tests done under particular process conditions.

Sanitary Hose Fittings & Adapters

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Standard Number 62-02

Rubber Fab
Hose Assemblies
are 3A Certified.

Rubber Fab Technologies Group

FDA Rubber Hose



FDA Rubber Hose

Rubber Fab FDA approved rubber hoses are designed to transport a wide variety of fluids without imparting odor or taste and are specifically designed for sanitary suction and discharge applications. FDA rubber hoses are recommended for the transfer of milk, juice, soft drinks, yogurt, pharmaceuticals, cosmetics, and oil based or water based products.

RFFDAEOC DIVERSA-FLEX™

NEW!



Food Grade FDA Smoothbore EPDM Lined Red Smooth/Glossy Outer Convoluted Rubber Cover Hose

TUBE: Smooth white EPDM, phthalate free, REACH compliant

COVER: Wide corrugated FDA rubber with red, low friction, smooth/glossy, UHMW cover

REINFORCEMENT: Synthetic plies, steel wire helixes

TEMPERATURE: -40°F to 245°F

RFFDAE



Food Grade FDA EPDM Rubber Hose

TUBE: Smooth white EPDM

COVER: Grey EPDM rubber

REINFORCEMENT: Two polyester spirals with dual helix wire

TEMPERATURE: -20°F to 300°F

RFFDAELF

LAY FLAT



Food Grade FDA EPDM Rubber Lay Flat Hose

TUBE: Smooth white EPDM

COVER: Grey EPDM rubber

REINFORCEMENT: Multiple textile plies

TEMPERATURE: -20°F to 300°F

RFF&B



Food Grade FDA Nitrile/PVC Blend Lined Food and Beverage Crush Resistant Hose

TUBE: Smooth white nitrile/PVC blend

COVER: Grey EPDM rubber

REINFORCEMENT: Synthetic high tensile textile with static conductive filament and monofilament helix

TEMPERATURE: -40°F to 230°F

RFFDA



Food Grade FDA Nitrile Rubber Hose

TUBE: Smooth white nitrile

COVER: White nitrile rubber (abrasion and oil resistant)

REINFORCEMENT: Two polyester spirals with dual helix wire

TEMPERATURE: -40°F to 180°F

RFFDAOC



Food Grade FDA Smoothbore Nitrile Outer Convoluted Hose

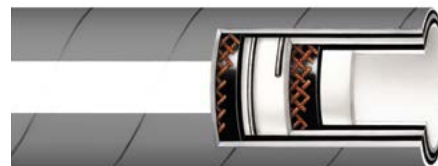
TUBE: Smooth white nitrile

COVER: Convoluted grey nitrile rubber (abrasion and oil resistant)

REINFORCEMENT: Textile with dual helix wire

TEMPERATURE: -40°F to 225°F

RFFDAC



Food Grade FDA Chlorobutyl Lined Hose

TUBE: Smooth white chlorobutyl

COVER: Grey EPDM rubber

REINFORCEMENT: Two polyester spirals with dual helix wire

TEMPERATURE: -40°F to 225°F

Rubber Fab Hose

AVAILABLE FOR ASSEMBLIES OR FABRICATION



**DID YOU
KNOW?**

Rubber Fab hoses are available in factory fabricated assemblies or in bulk length.
CONSULT FACTORY FOR DETAILS.

RFFDAEOC DIVERSA-FLEX™



Food Grade FDA Smoothbore EPDM Lined Red Smooth/Glossy Outer Convuluted Rubber Cover Hose

TUBE: Smooth white EPDM, phthalate free, REACH compliant

COVER: Wide corrugated FDA rubber with red, low friction, smooth/glossy, UHMW cover

REINFORCEMENT: Synthetic plies, steel wire helixes

TEMPERATURE: -40°F to 245°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
16RFFDAEOC	1.00	1.46	2.76	150	FULL	0.58
24RFFDAEOC	1.50	2.00	3.15	150	FULL	0.77
32RFFDAEOC	2.00	2.52	3.94	150	FULL	1.00
40RFFDAEOC	2.50	3.09	5.12	150	FULL	1.36
48RFFDAEOC	3.00	3.62	5.91	150	FULL	1.70
64RFFDAEOC	4.00	4.65	9.80	150	FULL	2.55

Features

- Lightweight
- Flexible
- Low drag resistance
- Cover is abrasion, oil, and chemical resistant
- Smooth glossy cover resists dirt and mold
- Ozone and fade resistance cover guards against premature aging
- Easy to clean
- Phthalate free
- Static grounding available

Applications

- Milk transfer
- Water transfer
- Food and beverage transfer
- Non-fatty and non-oily food products
- Suction and discharge

Hose Certifications

- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- USDA
- REACH Compliant



RFFDAE



Food Grade FDA EPDM Rubber Hose

TUBE: Smooth white EPDM

COVER: Grey EPDM rubber

REINFORCEMENT: Two polyester spirals with dual helix wire

TEMPERATURE: -20°F to 300°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFFDAE	0.50	0.97	1.50	300	FULL	0.30
12RFFDAE	0.75	1.27	2.50	300	FULL	0.44
16RFFDAE	1.00	1.50	3.00	300	FULL	0.57
24RFFDAE	1.50	2.09	4.50	300	FULL	0.91
32RFFDAE	2.00	2.63	6.00	250	FULL	1.30
40RFFDAE	2.50	3.17	8.00	200	FULL	1.74
48RFFDAE	3.00	3.72	10.00	200	FULL	2.42
64RFFDAE	4.00	4.78	14.00	150	FULL	3.22
96RFFDAE	6.00	6.79	28.00	100	FULL	5.35

Features

- Smooth inner bore
- Will not impart taste or odor
- Full vacuum
- Abrasion resistant
- Chemical and ozone resistant
- Static grounding available

Applications

- Sanitary suction and discharge
- Hot air blower service for food applications
- Food and beverage transfer
- Dairy
- CIP pharmaceutical
- Non-fatty and non-oily food products

Hose Certifications

- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- USDA
- Conforms to the construction criteria of the Grade A Pasteurized Milk Ordinance



RFFDAELF



Food Grade FDA EPDM Rubber
Lay Flat Hose

TUBE: Smooth white EPDM

COVER: Grey EPDM rubber

REINFORCEMENT: Multiple textile plies

TEMPERATURE: -20°F to 300°F

Part Number	Hose ID Inch	Hose OD Inch	Max. Working Pressure @ 70°F psig	Weight Per Foot
16RFFDAELF	1.00	1.34	150	0.40
24RFFDAELF	1.50	1.88	150	0.55
32RFFDAELF	2.00	2.38	150	0.71
40RFFDAELF	2.50	2.88	150	0.88
48RFFDAELF	3.00	3.38	150	1.05
64RFFDAELF	4.00	4.38	150	1.38
96RFFDAELF	6.00	6.88	100	2.04

Features

- Tubing lays flat for easy storage
- Lightweight
- Available in bulk or fabricated assemblies
- Contact Rubber Fab for available lengths and custom colors

Applications

- Milk transfer
- Water transfer
- Food and beverage
- Cosmetics
- CIP pharmaceutical
- Chemical transfer
- Dairy
- Non-fatty and non-oily food products

Hose Certifications

- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- USDA
- Conforms to the construction criteria of the Grade A Pasteurized Milk Ordinance



RFF&B



Food Grade FDA Nitrile/PVC Blend Lined
Food and Beverage Crush Resistant Hose

TUBE: Smooth white nitrile/PVC blend

COVER: Grey EPDM rubber

REINFORCEMENT: Synthetic high tensile textile with static conductive filament and monofilament helix

TEMPERATURE: -40°F to 230°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
12RFF&B	0.75	1.22	2.00	250	FULL	0.42
16RFF&B	1.00	1.48	3.00	250	FULL	0.52
24RFF&B	1.50	2.07	4.50	250	FULL	0.90
32RFF&B	2.00	2.62	6.00	250	FULL	1.21
40RFF&B	2.50	3.25	12.00	250	FULL	1.81
48RFF&B	3.00	3.86	18.00	250	FULL	2.46
64RFF&B	4.00	4.88	36.00	250	FULL	3.24

Features

- Crush and kink resistant
- Ultra smooth inner bore
- Full vacuum
- Abrasion resistant
- Chemical and ozone resistant
- Will not impart taste or odor
- Ultra smooth bacteria free tube

Applications

- Food and beverage transfer
- Dairy and milk transfer
- Juice and soft drink transfer
- Wine and beer
- Suitable for many dry bulk products
- Pharmaceutical
- Water based products

Hose Certifications

- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- USDA
- Conforms to the construction criteria of the Grade A Pasteurized Milk Ordinance



RFFDA



Food Grade FDA Nitrile Rubber Hose

TUBE: Smooth white nitrile

COVER: White nitrile rubber (abrasion and oil resistant)

REINFORCEMENT: Two polyester spirals with dual helix wire

TEMPERATURE: -40°F to 180°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFFDA	0.50	0.97	1.50	200	FULL	0.35
12RFFDA	0.75	1.27	2.50	200	FULL	0.48
16RFFDA	1.00	1.56	3.00	200	FULL	0.75
24RFFDA	1.50	2.13	6.00	150	FULL	1.03
32RFFDA	2.00	2.63	7.00	150	FULL	1.44
40RFFDA	2.50	3.17	8.00	150	FULL	1.92
48RFFDA	3.00	3.69	9.00	150	FULL	2.43
64RFFDA	4.00	4.81	12.00	150	FULL	3.65

Features

- Ultra smooth inner bore
- Full vacuum
- Abrasion resistant cover
- Chemical and ozone resistant
- Will not impart taste or odor
- Static grounding available

Applications

- Oily food
- Potable water
- Sanitary suction and discharge
- Food and beverage transfer
- Dairy
- CIP pharmaceutical

Hose Certifications

- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- USDA
- Conforms to the construction criteria of the Grade A Pasteurized Milk Ordinance



RFFDAOC



Food Grade FDA Smoothbore Nitrile Outer Convoluted Hose

TUBE: Smooth white nitrile

COVER: Convoluted grey nitrile rubber (abrasion and oil resistant)

REINFORCEMENT: Textile with dual helix wire

TEMPERATURE: -40°F to 225°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
32RFFDAOC	2.00	2.59	5.00	200	FULL	1.33
48RFFDAOC	3.00	3.63	8.00	150	FULL	2.09
64RFFDAOC	4.00	4.68	10.00	100	FULL	3.11

Features

- Ultra smooth bacteria free tube
- Will not impart taste or odor
- Full vacuum
- Abrasion resistant
- Chemical and ozone resistant
- Static grounding available

Applications

- Food and beverage transfer
- Dairy and milk transfer
- Juice and soft drink transfer
- Wine and beer
- Suitable for many dry bulk products
- Oily food

Hose Certifications

- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- USDA
- Conforms to the construction criteria of the Grade A Pasteurized Milk Ordinance



RFFDAC



Food Grade FDA Chlorobutyl Lined Hose

TUBE: Smooth white chlorobutyl

COVER: Grey EPDM rubber

REINFORCEMENT: Two polyester spirals with dual helix wire

TEMPERATURE: -40°F to 225°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
24RFFDAC	1.50	2.13	4.50	200	FULL	0.98
32RFFDAC	2.00	2.64	6.00	200	FULL	1.37
40RFFDAC	2.50	3.16	7.50	200	FULL	1.77
48RFFDAC	3.00	3.70	9.00	200	FULL	2.23
64RFFDAC	4.00	4.73	12.00	200	FULL	3.18

Features

- Ultra smooth inner bore
- Full vacuum
- Abrasion resistant
- Chemical and ozone resistant
- Will not impart taste or odor
- Static grounding available

Applications

- Dairy and milk transfer
- Juice and soft drink transfer
- Wine and beer
- Non-fatty or non-oily foods
- Cosmetics
- Pharmaceutical

Hose Certifications

- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- USDA
- Conforms to the construction criteria of the Grade A Pasteurized Milk Ordinance



Rubber Fab Technologies Group

Golden Bridge

DID YOU KNOW?



The Golden Bridge is a heavy duty, safety yellow hose support that easily bolts together over any hose or stainless steel piping system. **SEE PAGE 64.**

Rubber Fab Technologies Group

Wash Down Rubber Hose



Wash Down Rubber Hose

Efficient cleaning and sanitation is often neglected as it requires extra work and the positive effects are not immediately visible, however, failures in plant hygiene can cause high financial losses in the long run. Unsanitary conditions result in unattractive and tasteless product, spoilage of valuable product, and/or foodborne diseases. Proper cleaning and sanitation is becoming increasingly important as more perishable and hygienically sensitive products enter the marketplace.

RFWD – Wash Down Hose



Wash Down Rubber Hose

TUBE: EPDM rubber

COVER: White EPDM rubber

REINFORCEMENT: Textile reinforced

TEMPERATURE: -40°F to 205°F

Part Number	Hose ID Inch	Hose OD Inch	Max. Working Pressure @ 70°F psig	Weight per Foot
08RFWD	0.50	0.84	300	0.26
10RFWD	0.63	1.00	300	0.31
12RFWD	0.75	1.17	300	0.42
16RFWD	1.00	1.47	300	0.62

Features

- Economical hose for wash down needs
- Handles hot water
- Cover resistant to abrasion
- Spiral construction provides excellent flexibility
- Ease of handling
- Suitable for animal, fish, and vegetable fat environments

Applications

- Food processing plants
- Dairies
- Creameries
- Breweries
- Food
- Beverage

RFWDAM – Wash Down Hose with Microban®



Wash Down Rubber Hose with Microban®

TUBE: EPDM rubber

COVER: White EPDM rubber

REINFORCEMENT: Textile reinforced

TEMPERATURE: -40°F to 200°F

Part Number	Hose ID Inch	Hose OD Inch	Max. Working Pressure @ 70°F psig	Weight per Foot
08RFWDAM	0.50	0.84	300	0.26
12RFWDAM	0.75	1.17	300	0.42
16RFWDAM	1.00	1.47	300	0.62

Microban® antimicrobial protection is built into the hose to fight against damaging microbes. Microban technology works continuously, even in between cleanings, and won't wash off or wear away with normal use, keeping the hose cleaner longer.

Features

- Antimicrobial protection – if exposed to floor contaminants, will not grow bacteria
- Economical hose for wash down needs
- Handles hot water
- Cover resistant to abrasion
- Spiral construction provides excellent flexibility
- Ease of handling
- Suitable for animal, fish, and vegetable fat environments

Applications

- Food processing plants
- Dairies
- Creameries
- Breweries
- Food
- Beverage

Rubber Fab Technologies Group

Smoothbore Fluoropolymer Hose



Smoothbore Fluoropolymer Hose

Rubber Fab offers a full line of flexible smoothbore FEP, PFA, and PTFE lined sanitary hoses for Pharmaceutical, Food and Beverage, and Industrial applications. Smoothbore fluoropolymer lined hoses are recommended for sanitary, pharmaceutical processing, distillery flex connections, high purity, and high temperature applications.

RFRTPOC DIVERSA-FLEX™



Smoothbore PTFE Lined Hose with Blue Smooth/Glossy Outer Convuluted Rubber Cover Hose

TUBE: Seamless white PTFE, phthalate free, REACH compliant

COVER: Wide corrugated FDA Rubber with blue, low friction, smooth/glossy, UHMW cover

REINFORCEMENT: Synthetic plies, wire helixes

TEMPERATURE: -40°F to 300°F

RFRT



Smoothbore FEP Lined EPDM Rubber Covered Hose

TUBE: Seamless white FEP

COVER: EPDM rubber (abrasion resistant)

REINFORCEMENT: Multiple braids, helical wire

TEMPERATURE: -40°F to 300°F

RFRTTP



Smoothbore Heavy Wall PTFE Lined EPDM Rubber Hose

TUBE: Seamless white HEAVY WALL PTFE

COVER: EPDM rubber (abrasion resistant)

REINFORCEMENT: Multiple braids, helical wire

TEMPERATURE: -20°F to 300°F

RFST



Smoothbore PTFE Lined Hose with Stainless Steel Braided Cover

TUBE: Seamless white PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

Also available with Flare Thru

RFST - FLARE THRU

RFSTS



Smoothbore PTFE Lined Hose with Stainless Steel Braid and Clear Silicone Outer Cover

TUBE: Seamless white PTFE

COVER: Braided stainless steel and clear silicone outer cover

TEMPERATURE: -20°F to 350°F

RFSTB



Smoothbore Black Conductive PTFE Lined Hose with Braided Stainless Steel Cover

TUBE: Black conductive PTFE

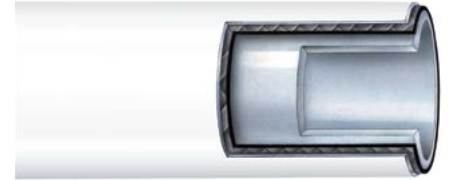
COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

Also available with silicone outer cover

RFSTBS

RFST SUPREME-FLEX



Smoothbore PTFE Lined Hose with Silicone Outer Cover

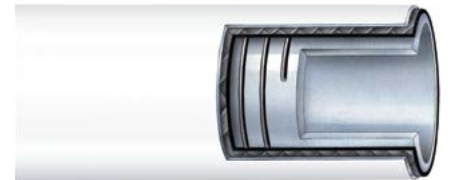
TUBE: Seamless white PTFE

COVER: White silicone

REINFORCEMENT: 304 stainless steel braid

TEMPERATURE: -100°F to 500°F

RFTF TUF-FLEX®



Smoothbore PFA Lined Hose with Textile and SS Wire Embedded in Silicone Reinforcement with Smooth Platinum Silicone White Outer Cover

TUBE: Smoothbore PFA

COVER: Smoothbore platinum cured white silicone

REINFORCEMENT: Textile and stainless steel wire embedded in silicone

TEMPERATURE: -20°F to 265°F

RFXF XTREME-FLEX



Smoothbore PFA Fluoropolymer Lined Hose with Multi Layer Reinforcement and Stainless Steel Braided Cover

TUBE: Smoothbore PFA

COVER: Braided stainless steel

CUSTOM COVERS: White silicone jacket

REINFORCEMENT: Bonded wire braid, silicone, textile braided composite

TEMPERATURE: -65°F to 325°F

RFRTPOC DIVERSA-FLEX™



NEW!

Smoothbore PTFE Lined Hose with Blue Smooth/Glossy Outer Convuluted Rubber Cover Hose

TUBE: Seamless white PTFE, phthalate free, REACH compliant

COVER: Wide corrugated FDA rubber with blue, low friction, smooth/glossy, UHMW cover

REINFORCEMENT: Synthetic plies, wire helixes

TEMPERATURE: -40°F to 300°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
16RFRTPOC	1.00	1.45	7.09	235	FULL	1.96
24RFRTPOC	1.50	2.00	10.24	235	FULL	3.00
32RFRTPOC	2.00	2.60	12.99	235	FULL	5.47
40RFRTPOC	2.50	3.13	17.32	235	FULL	7.65
48RFRTPOC	3.00	3.58	20.47	235	FULL	8.77

Features

- Phthalate free
- Lightweight
- Flexible
- Low drag resistance
- Cover is abrasion, oil, and chemical resistant
- Smooth glossy cover resists dirt and mold
- Ozone and fade resistance cover guards against premature aging
- Easy to clean
- Resistant to mechanical stress
- Static grounding available

Applications

- Chemical and solvent suction and discharge
- Pharmaceutical processing
- Cosmetics
- Food and beverage transfer
- Load cells
- Hot CIP solutions

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- REACH Compliant



RFRT



Smoothbore FEP Lined EPDM Rubber Covered Hose

TUBE: Seamless white FEP

COVER: EPDM rubber (abrasion resistant)

REINFORCEMENT: Multiple braids, helical wire

TEMPERATURE: -40°F to 300°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFRT	0.50	0.97	2.50	500	FULL	0.35
12RFRT	0.75	1.27	2.50	500	FULL	0.52
16RFRT	1.00	1.48	3.00	400	FULL	0.55
24RFRT	1.50	2.04	4.50	350	FULL	0.87
32RFRT	2.00	2.54	7.00	300	FULL	1.17
40RFRT	2.50	3.04	9.00	200	FULL	1.55
48RFRT	3.00	3.81	35.00	200	FULL	2.98
64RFRT	4.00	4.89	20.00	150	FULL	3.98

Features

- EPDM Rubber outer cover has multiple textile plies along the entire length
- Double steel wire helix for improved bend radius and shape retention
- Liner is smooth FEP, bonded for full vacuum service
- Non-stick contact surface will not contaminate product
- Inert and resistant to most chemicals and reagents
- Cleanable by CIP, COP methods
- Ultra smooth bacteria free tube
- Static grounding available

Applications

- Pharmaceutical processing
- Water, acid, and chemical transfer
- Hot CIP solutions
- Distillery piping systems
- Electronic industries
- Fluid transfer
- Food and beverage processing
- Load cells
- Cosmetics

Hose Certifications

- Meets USP Class VI Standards
- FDA 21 CFR 177.1550
- FDA 21 CFR 177.2600
- 3-A Sanitary Standards



RF RTP



Smoothbore Heavy Wall PTFE Lined EPDM Rubber Hose

TUBE: Seamless white **HEAVY WALL PTFE**

COVER: EPDM rubber (abrasion resistant)

REINFORCEMENT: Multiple braids, helical wire

TEMPERATURE: -20°F to 300°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RF RTP	0.53	1.00	1.80	600	FULL	0.46
12RF RTP	0.78	1.30	2.50	550	FULL	0.56
16RF RTP	1.03	1.54	3.40	530	FULL	0.79
24RF RTP	1.52	2.19	5.50	430	FULL	1.22
32RF RTP	2.02	2.73	8.00	430	FULL	1.84

Also available in white outer cover (RF RTPW).

Features

- Heavy wall PTFE liner provides good permeation resistance
- Resistant to ozone, chemical, and abrasion
- Double steel wire helix for improved bend radius and shape retention
- Outstanding flexibility
- Non-stick contact surface will not contaminate product
- Inert and resistant to most chemicals and reagents
- Cleanable by CIP, SIP, and COP methods
- Ultra smooth bacteria free tube
- Static grounding available

Applications

- Pharmaceutical processing
- Chemical transfer
- Hot CIP solutions
- Distillery piping systems
- Fluid transfer
- Food and beverage processing
- Load cells
- Cosmetics

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- FDA 21 CFR 177.2600
- 3-A Sanitary Standards



RF ST



Smoothbore PTFE Lined Hose with Stainless Steel Braided Cover

TUBE: Seamless white **PTFE**

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
04RF ST	0.25	0.37	3.00	3000	FULL	0.08
06RF ST	0.38	0.51	5.00	2000	FULL	0.11
08RF ST	0.50	0.63	6.50	1425	FULL	0.16
12RF ST	0.75	0.88	8.20	1000	FULL	0.20
16RF ST	1.00	1.19	12.00	1000	FULL	0.50
24RF ST	1.50	1.76	20.00	1000	FULL	0.92

Features

- Outer cover is stainless steel braid overwrap
- Smoothbore PTFE inner core
- Non-stick contact surface will not contaminate product
- Withstands high velocity and pressure surges
- Resists moisture
- Autoclavable

Applications

- Food and beverage processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- 3-A Sanitary Standards
- USDA



RFST – FLARE THRU



*Smoothbore Flared PTFE Lined
Hose with Stainless Steel Braided
Cover*

TUBE: Seamless white PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

FITTINGS: Flare thru Tri-Clamp®
Flare thru 150# flange

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
12RFSTFT*	0.75	0.88	8.20	275	FULL	0.20
16RFSTFT	1.00	1.19	12.00	275	FULL	0.50
24RFSTFT*	1.50	1.76	18.00	275	FULL	0.92

* Available in 150# flange style only.

Features

- Outer cover is stainless steel braid overwrap
- Smoothbore PTFE inner core
- No bacteria traps with flare thru assembly
- Non-stick contact surface will not contaminate product
- Withstands high velocity and pressure surges
- Resists moisture
- Autoclavable

Applications

- Food and beverage processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- 3-A Sanitary Standards
- USDA



RFSTS



*Smoothbore PTFE Lined Hose with
Stainless Steel Braid and Clear Silicone
Outer Cover*

TUBE: Seamless white PTFE

COVER: Braided stainless steel and clear
silicone outer cover

TEMPERATURE: -20°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
04RFSTS	0.25	0.56	3.00	3000	FULL	0.12
06RFSTS	0.38	0.70	4.00	2000	FULL	0.13
08RFSTS	0.50	0.82	4.00	1425	FULL	0.16
12RFSTS	0.75	1.08	7.00	1000	FULL	0.20
16RFSTS	1.00	1.32	12.00	1000	FULL	0.50
24RFSTS	1.50	1.82	20.00	1000	FULL	0.92

Maximum length 20 feet.

Features

- Outer cover is stainless steel braid overwrap with clear silicone cover
- Silicone cover acts as thermal insulator
- Lining is smooth PTFE inner core, non-stick surface
- Non-stick contact surface will not contaminate contacted substances
- Not affected by weather and will not age in service within the recommended temperature and pressure ratings
- Withstands high velocity and pressure surges
- Conductive black liner available
- Ease of cleanability
- Autoclavable
- Can be steam cleaned

Applications

- Food processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- 3-A Sanitary Standards
- USDA



RFSTB



Smoothbore Black Conductive PTFE Lined Hose with Braided Stainless Steel Cover

TUBE: Black conductive PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
04RFSTB	0.25	0.37	3.00	3000	FULL	0.08
06RFSTB	0.38	0.51	5.00	2000	FULL	0.11
08RFSTB	0.50	0.63	6.50	1425	FULL	0.16
12RFSTB	0.75	0.88	8.20	1000	FULL	0.20
16RFSTB	1.00	1.19	12.00	1000	FULL	0.50
24RFSTB	1.50	1.76	20.00	1000	FULL	0.92

Features

- Conductive liner dissipates static electricity
- Outer cover is stainless steel braid overwrap
- Smoothbore PTFE inner core
- Non-stick contact surface will not contaminate product
- Withstands high velocity and pressure surges
- Resists moisture
- Autoclavable

Applications

- Food processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- FDA 21 CFR 177.1550
- USDA

RFSTBS



Smoothbore Black Conductive PTFE Lined Hose with Braided Stainless Steel Cover and Clear Silicone Outer Cover

TUBE: Black conductive PTFE

COVER: Braided stainless steel and clear silicone outer cover

TEMPERATURE: -20°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
04RFSTBS	0.25	0.56	3.00	3000	FULL	0.12
06RFSTBS	0.38	0.70	4.00	2000	FULL	0.13
08RFSTBS	0.50	0.82	4.00	1425	FULL	0.16
12RFSTBS	0.75	1.08	7.00	1000	FULL	0.20
16RFSTBS	1.00	1.32	12.00	1000	FULL	0.50
24RFSTBS	1.50	1.82	20.00	1000	FULL	0.92

Maximum length 20 feet.

Features

- Conductive liner dissipates static electricity
- Silicone cover acts as thermal insulator
- Lining is smooth PTFE inner core, non-stick surface
- Non-stick contact surface will not contaminate contacted substances
- Not affected by weather and will not age in service within the recommended temperature and pressure ratings
- Withstands high velocity and pressure surges
- Ease of cleanability
- Autoclavable
- Can be steam cleaned

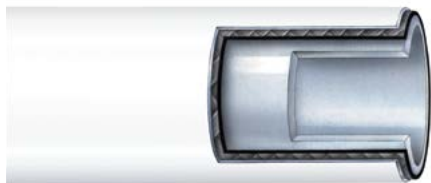
Applications

- Food processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- FDA 21 CFR 177.1550
- USDA

RFSF SUPREME-FLEX



Smoothbore PTFE Lined Hose with Silicone Outer Cover

TUBE: Seamless white PTFE

COVER: White silicone

REINFORCEMENT: 304 stainless steel braid

TEMPERATURE: -100°F to 500°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
04RFSF	0.25	0.50	1.50	3250	FULL	0.13
06RFSF	0.37	0.65	2.00	2500	FULL	0.15
08RFSF	0.50	0.81	3.00	2000	FULL	0.18
12RFSF	0.75	1.02	8.20	1000	FULL	0.34
16RFSF*	1.00	1.36	12.00	1000	FULL	0.57

*Consult factory for availability

Features

- Superior flexibility
- High pressure rating
- Lining is smoothbore PTFE
- Excellent chemical resistance
- Non-stick contact surface will not contaminate contacted surfaces
- Autoclavable
- Steam cleanable at stated temperature and pressure rating
- Full vacuum rating
- Will not impart taste or odor
- Ultra smooth bacteria free tube

Applications

- Load cell
- CIP/SIP cleaning
- Filling equipment
- Sampling systems
- Fermentation lines
- Food and beverage processing
- Pharmaceutical processing
- Chemical transfer
- Sanitary transfer

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- 3-A Sanitary Standards
- USDA



RFTF TUF-FLEX®



Smoothbore PFA Lined Hose with Textile and SS Wire Embedded in Silicone Reinforcement with Smooth Platinum Silicone White Outer Cover

TUBE: Smoothbore PFA

COVER: Smoothbore platinum cured white silicone

REINFORCEMENT: Textile and stainless steel wire embedded in silicone

TEMPERATURE: -20°F to 265°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFTF	0.51	0.92	3.70	145	FULL	0.26
10RFTF	0.63	1.06	4.30	145	FULL	0.34
12RFTF	0.78	1.23	5.30	145	FULL	0.42
16RFTF	1.00	1.47	5.50	145	FULL	0.60
24RFTF	1.50	2.03	8.70	145	FULL	0.91
32RFTF	2.00	2.56	9.80	145	FULL	1.28
40RFTF	2.50	3.11	12.10	145	FULL	1.61

Rubber Fab recommends a Rubber Fab factory crimp for this product.

Features

- Extreme flexibility
- Superior cleanability
- Excellent thermal properties
- Ultra smooth bacteria free tube
- Static grounding available
- Resistant to repetitive dynamic cycling
- Autoclavable
- Phthalate free

Applications

- Load cell
- CIP/SIP cleaning
- Filling equipment
- Sampling systems
- Dosing and filling machines
- Fermentation lines
- Food and beverage processing
- Pharmaceutical processing
- Chemical transfer

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- 3-A Sanitary Standards



RFXF XTREME-FLEX



Smoothbore PFA Fluoropolymer Lined Hose with Multi Layer Reinforcement and Stainless Steel Braided Cover

TUBE: Smoothbore PFA

COVER: Braided stainless steel

CUSTOM COVERS: White silicone jacket

REINFORCEMENT: Bonded wire braid, silicone, textile braided composite

TEMPERATURE: -65°F to 325°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
06RFXF	0.38	0.63	2.00	300	FULL	0.16
08RFXF	0.50	0.76	2.50	300	FULL	0.23
12RFXF	0.75	1.04	3.00	250	FULL	0.37
16RFXF	1.00	1.29	4.00	250	FULL	0.54
24RFXF	1.50	1.85	7.00	200	FULL	0.83

Features

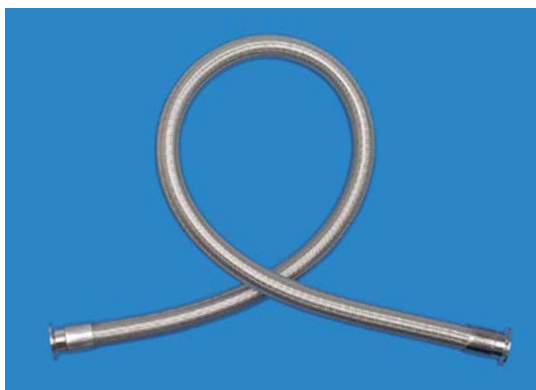
- Superior flexibility
- Superior kink resistance
- Lining is smoothbore PFA
- Non-stick contact surface will not contaminate contacted surfaces
- Autoclavable
- Steam cleanable at stated temperature and pressure rating
- Full vacuum rating
- Advanced design serves as a thermal insulator to the touch

Applications

- Food and beverage processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- 3-A Sanitary Standards
- ISO 10993



The "extreme" flexibility of RFXF Xtreme-Flex can be utilized for elbows, 180° bends, or almost any configuration.

Rubber Fab Technologies Group

Lock & Label



Providing Sanitary System Safety, Security and Identification

Lock & Label is a versatile, tamper-resistant, tamper-evident seal for a multitude of applications, sanitary clamp connections, instrumentation, meters, tanks, drums, valves, and much more!

DID YOU KNOW?

Rubber Fab Technologies Group

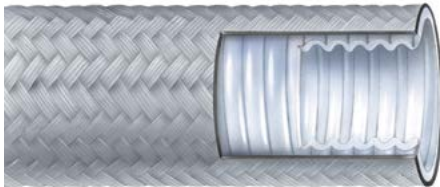
Convuluted PTFE Hose



Convuluted PTFE Hose

Rubber Fab convuluted PTFE hoses are manufactured with smooth, rounded, helical shaped convolutions which help to promote easy cleaning and self-draining for the ultimate high purity, convuluted hose. Rubber Fab convuluted hose's light weight, flexible characteristics provide a superior flex life. Also available in 150# flange or Tri-Clamp® style flare thru ends, providing a 100% PTFE coverage on all wetted surfaces.

RFCTLP



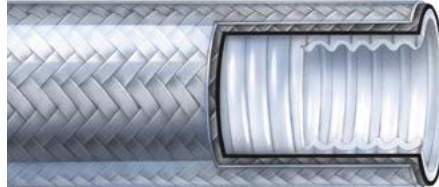
Convuluted Low Profile PTFE Lined Hose with Braided Stainless Steel Cover

TUBE: Seamless white convoluted PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

RFCTLPS



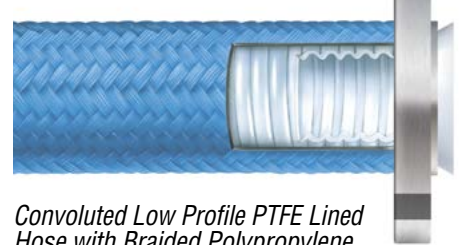
Convuluted Low Profile PTFE Lined Hose with Braided Stainless Steel Cover and Silicone Outer Cover

TUBE: Seamless white convoluted PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

RFCTLPP FLARE THRU



Convuluted Low Profile PTFE Lined Hose with Braided Polypropylene Cover with Flare Thru Assembly

TUBE: Seamless white convoluted PTFE

COVER: Braided blue polypropylene

TEMPERATURE: -20°F to 212°F

RFCTLP FLARE THRU



Convuluted Low Profile PTFE Lined Hose with Braided Stainless Steel Cover with Flare Thru Assembly

TUBE: Seamless white convoluted PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

RFCTLPB



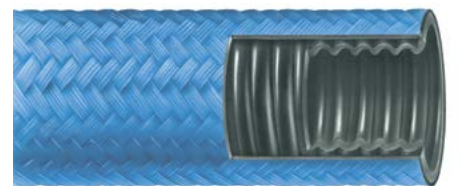
Convuluted Low Profile Black Conductive PTFE Hose with Braided Stainless Steel Cover

TUBE: Seamless black conductive convoluted PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

RFCTLPPB



Convuluted Black Conductive Low Profile PTFE Lined Hose with Braided Blue Polypropylene Cover

TUBE: Seamless black conductive convoluted PTFE

COVER: Braided blue polypropylene

TEMPERATURE: -20°F to 212°F

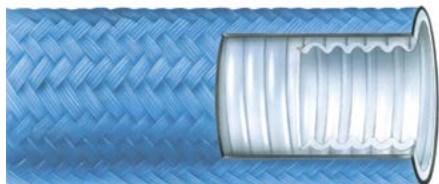
Fittings & Adapters

ARE AVAILABLE IN BULK OR FOR HOSE ASSEMBLIES

DID YOU KNOW?

SEE PAGE 66

RFCTLPP



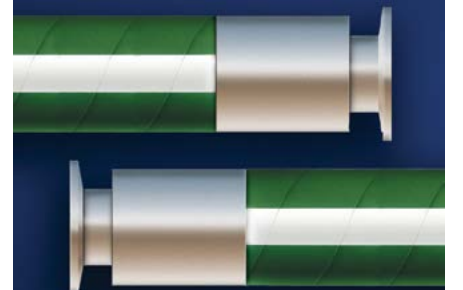
Convuluted Low Profile PTFE Lined Hose with Braided Polypropylene Cover

TUBE: Seamless white convoluted PTFE

COVER: Braided blue polypropylene

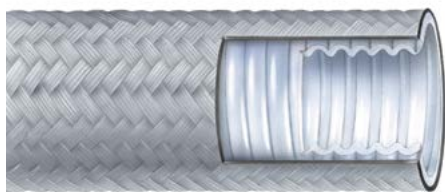
TEMPERATURE: -20°F to 212°F

HOW TO BUILD A Hose Assembly



SEE PAGE 97

RFCTLP



Convoluted Low Profile PTFE Lined Hose with Braided Stainless Steel Cover

TUBE: Seamless white convoluted PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFCTLP	0.47	0.75	2.00	1425	FULL	0.20
12RFCTLP	0.72	1.05	2.80	1300	FULL	0.30
16RFCTLP	0.97	1.35	4.00	1100	FULL	0.48
24RFCTLP	1.54	2.03	6.00	700	FULL	0.82
32RFCTLP	1.97	2.46	7.50	525	FULL	1.12
48RFCTLP	2.91	3.70	14.00	175	FULL	1.26
64RFCTLP	3.94	5.00	16.00	150	FULL	2.64

Features

- Lower convolutions for minimal pressure drop and ease of cleaning
- Outer cover is stainless steel braid overwrap
- Not affected by weather and will not age in service within the recommended temperature and pressure ratings
- Withstands high velocity and pressure surges
- Unaffected by continuous flexing or vibration when used in accordance with minimum bend radius specifications
- Autoclavable
- Steam cleanable
- Available in bulk or fabricated assemblies
- Phthalate free

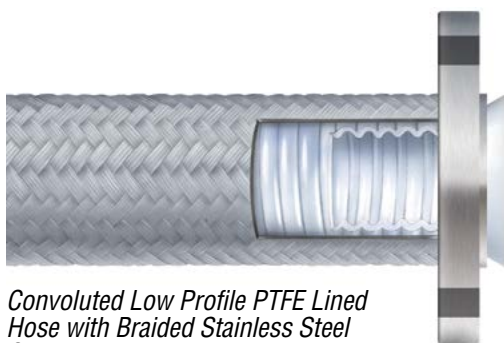
Applications

- Food processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- USDA
- Meets REACH Standards

RFCTLP – FLARE THRU



Convoluted Low Profile PTFE Lined Hose with Braided Stainless Steel Cover with Flare Thru Assembly

TUBE: Seamless white convoluted PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

FITTINGS: Flare thru Tri-Clamp®
Flare thru 150# flange

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFCTLP	0.47	0.75	2.00	500	FULL	0.20
12RFCTLP	0.72	1.05	2.80	500	FULL	0.30
16RFCTLP	0.97	1.35	4.00	500	FULL	0.48
24RFCTLP **	1.54	2.03	6.00	350	FULL	0.82
32RFCTLP **	1.97	2.46	7.50	250	22	1.14
48RFCTLP	2.91	3.70	14.00	175	20	1.26
64RFCTLP*	3.94	5.00	16.00	150	15	2.64

* Available in 150# flange style only.

** Flare thru ID is reduced with Tri-Clamp® style ends.

Features

- Lower convolutions for minimal pressure drop and ease of cleaning
- Outer cover is stainless steel braid overwrap
- Not affected by weather and will not age in service within the recommended temperature and pressure ratings
- Withstands high velocity and pressure surges
- Unaffected by continuous flexing or vibration when used in accordance with minimum bend radius specifications
- Autoclavable
- Steam cleanable
- Phthalate free

Applications

- Food processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- USDA
- Meets REACH Standards

RFCTLPS



Convoluted Low Profile PTFE Lined Hose with Braided Stainless Steel Cover and Silicone Outer Cover

TUBE: Seamless white convoluted PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFCTLPS	0.47	0.94	2.00	1425	FULL	0.20
12RFCTLPS	0.72	1.24	2.80	1300	FULL	0.30
16RFCTLPS	0.97	1.54	4.00	1100	FULL	0.48
24RFCTLPS	1.54	2.22	6.00	700	FULL	0.82
32RFCTLPS	1.97	2.65	7.50	525	FULL	1.12
48RFCTLPS	2.91	3.89	14.00	175	FULL	1.26
64RFCTLPS	3.94	5.19	16.00	150	FULL	2.64

Maximum length 20 feet.

Features

- Lower convolutions for minimal pressure drop and ease of cleaning
- Outer cover is stainless steel braid overwrap with clear silicone cover
- Silicone cover acts as thermal insulator
- Not affected by weather and will not age in service within the recommended temperature and pressure ratings
- Withstands high velocity and pressure surges
- Unaffected by continuous flexing or vibration when used in accordance with minimum bend radius specifications
- Autoclavable
- Steam cleanable
- Available in bulk or fabricated assemblies
- Available with carbon conductive liner
- Phthalate free

Applications

- Food processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- USP Class VI
- FDA 21 CFR 177.1550
- USDA
- Meets REACH Standards

RFCTLPB



Convoluted Low Profile Black Conductive PTFE Hose with Braided Stainless Steel Cover

TUBE: Seamless black conductive convoluted PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFCTLPB	0.47	0.75	2.00	1425	FULL	0.20
12RFCTLPB	0.72	1.05	2.80	1300	FULL	0.30
16RFCTLPB	0.97	1.35	4.00	1100	FULL	0.48
24RFCTLPB	1.54	2.03	6.00	700	FULL	0.82
32RFCTLPB	1.97	2.46	7.50	525	FULL	1.12
48RFCTLPB	2.91	3.70	14.00	175	FULL	1.26
64RFCTLPB	3.94	5.00	16.00	150	FULL	2.64

Features

- Lower convolutions allows for smooth product flow and ease of cleaning
- Outer cover is 316 stainless steel braid
- PTFE inner core provides outstanding corrosion resistance and material compatibility
- Unaffected by continuous flexing or vibration when used in accordance with minimum bend radius specifications
- Autoclavable
- Tighter bend radius compared to smoothbore hose styles
- Available in bulk or fabricated assemblies
- Phthalate free

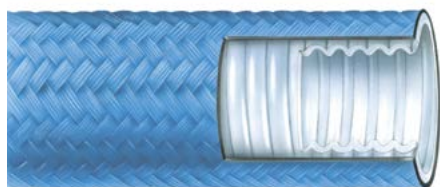
Applications

- Food and beverage processing
- Pharmaceutical processing
- Corn processing
- Flavors
- Chemical processing
- Low pressure steam

Hose Certifications

- FDA 21 CFR 177.1550
- USDA

RFCTLPP



Convoluted Low Profile PTFE Lined Hose with Braided Polypropylene Cover

TUBE: Seamless white convoluted PTFE

COVER: Braided blue polypropylene

TEMPERATURE: -20°F to 212°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFCTLPP	0.47	0.86	2.00	475	FULL	0.10
12RFCTLPP	0.72	1.16	2.80	425	FULL	0.18
16RFCTLPP	0.97	1.44	4.00	375	FULL	0.26
24RFCTLPP	1.54	2.16	6.00	325	FULL	0.46
32RFCTLPP	1.97	2.56	7.50	275	FULL	0.52
48RFCTLPP	2.91	3.92	14.00	225	CF	1.12
64RFCTLPP	3.94	5.22	16.00	100	CF	1.98

CF = Consult Factory

Features

- Inner core is low profile convoluted white PTFE
- Outer cover is bonded with a PTFE fiberglass braid and overbraid with a polypropylene monofilament
- Each monofilament strand is twisted for abrasion and chemical resistance
- Will not conduct internal heat as quickly as metallic braided hoses
- Conveys almost all substances and withstands the environmental conditions in which it operates
- Available in conductive liner for static dissipation
- Ease of cleanability
- Available in bulk or fabricated assemblies
- Phthalate free

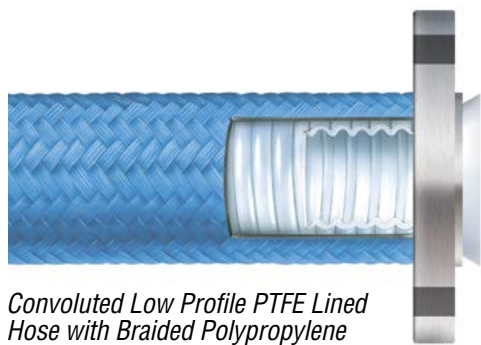
Applications

- Food processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- Meets USP Class VI Standards
- FDA 21 CFR 177.1550
- USDA
- Meets REACH Standards

RFCTLPP – FLARE THRU



Convoluted Low Profile PTFE Lined Hose with Braided Polypropylene Cover with Flare Thru Assembly

TUBE: Seamless white convoluted PTFE

COVER: Braided blue polypropylene

TEMPERATURE: -20°F to 212°F

FITTINGS: Flare thru Tri-Clamp®
Flare thru 150# flange

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFCTLPP	0.47	0.86	2.00	475	FULL	0.10
12RFCTLPP	0.72	1.16	2.80	425	FULL	0.18
16RFCTLPP	0.97	1.44	4.00	375	FULL	0.26
24RFCTLPP	1.54	2.16	6.00	325	FULL	0.46
32RFCTLPP	1.97	2.56	7.50	275	FULL	0.52
48RFCTLPP	2.91	3.92	14.00	225	CF	1.12
64RFCTLPP*	3.94	5.22	16.00	100	CF	1.98

* Available in 150# flange style only.

CF = Consult Factory

Features

- Inner core is low profile convoluted white PTFE
- Outer cover is bonded with a PTFE fiberglass braid and overbraid with a polypropylene monofilament
- Each monofilament strand is twisted for abrasion and chemical resistance
- Will not conduct internal heat as quickly as metallic braided hoses
- Conveys almost all substances and withstands the environmental conditions in which it operates
- Available in conductive liner for static dissipation
- Ease of cleanability
- Phthalate free

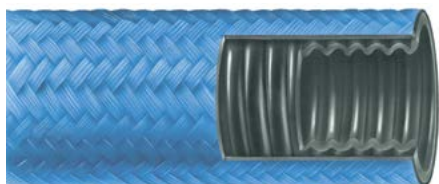
Applications

- Food processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- Meets USP Class VI Standards
- FDA 21 CFR 177.1550
- USDA
- Meets REACH Standards

RFCTLPPB



Convoluted Black Conductive Low Profile PTFE Lined Hose with Braided Blue Polypropylene Cover

TUBE: Seamless black conductive convoluted PTFE

COVER: Braided blue polypropylene

TEMPERATURE: -20°F to 212°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFCTLPPB	0.47	0.86	2.00	475	FULL	0.10
12RFCTLPPB	0.72	1.16	2.80	425	FULL	0.18
16RFCTLPPB	0.97	1.44	4.00	375	FULL	0.26
24RFCTLPPB	1.54	2.16	6.00	325	FULL	0.46
32RFCTLPPB	1.97	2.56	7.50	275	FULL	0.52
48RFCTLPPB	2.91	3.92	14.00	225	CF	1.12
64RFCTLPPB	3.94	5.22	16.00	100	CF	1.98

CF = Consult Factory

Features

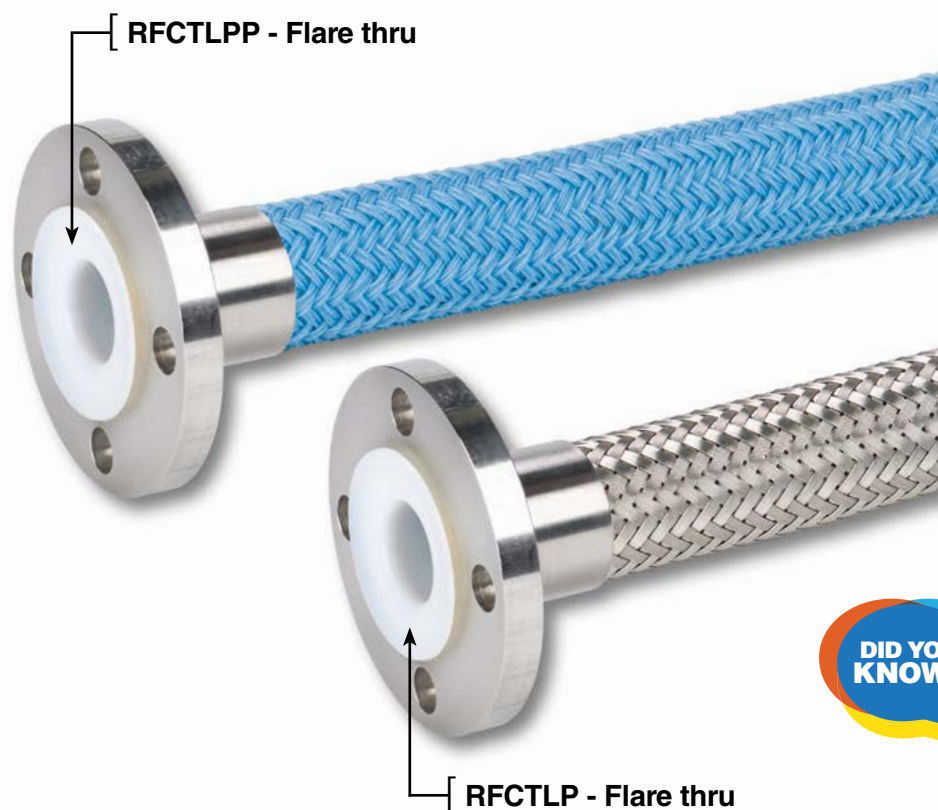
- Inner core is low profile convoluted black conductive PTFE
- Outer cover is bonded with a PTFE fiberglass braid and overbraid with a polypropylene monofilament
- Each monofilament strand is twisted for abrasion and chemical resistance
- Will not conduct internal heat as quickly as metallic braided hoses
- Conveys almost all substances and withstands the environmental conditions in which it operates
- Ease of cleanability
- Available in bulk or fabricated assemblies
- Phthalate free

Applications

- Food processing
- Pharmaceutical processing
- Cosmetics
- Hot CIP solutions
- Chemical products
- Low pressure steam

Hose Certifications

- FDA 21 CFR 177.1550
- USDA



Sanitary Gaskets



DID YOU KNOW?

Rubber Fab offers a full line of sanitary and specialty gaskets, o-rings, screens, and orifice plates.

CONSULT FACTORY FOR DETAILS.

Rubber Fab Technologies Group

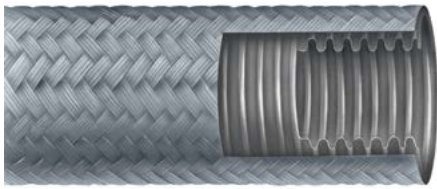
Metal Hose



Metal Hose and PTFE Lined Metal Hose

Rubber Fab corrugated metal hoses are flexible, corrosion resistant, high strength, and temperature resistant. They are used for cryogenics, pump connectors, vibration eliminators, pharmaceutical applications, steam, and flexible chemical transfer. Rubber Fab's PTFE lined flare thru hose is specifically designed for applications where dual containment is necessary, where a smooth continuous tube with no transition is required, and where elevated temperatures and working pressures are higher than a traditional PTFE hose withstands.

RFSSH



Stainless Steel Corrugated Hose

TUBE: 316L corrugated stainless steel
321 corrugated stainless steel

COVER: 304SS braided stainless steel

TEMPERATURE:

316L SS Core -400°F to 800°F
321 SS Core -400°F to 1500°F

TEMPERATURE CORRECTION CHART

For RFSSH metal hose, as the operating temperature of the hose assembly increases, the maximum working pressure of the assembly decreases.

1. Determine the maximum working temperature of the application.
2. Locate this temperature on the chart and read across to metal alloy selected to find the proper factor.
3. Multiply this factor by the maximum working pressure in the metal hose specification table.
4. This number is your maximum safe working pressure at that elevated temperature.

TEMPERATURE CORRECTION FACTORS

Temp (°F)	304, 316L Stainless	321 Stainless
Room	1.00	1.00
150	0.96	0.97
200	0.92	0.94
250	0.91	0.92
300	0.86	0.88
350	0.85	0.86
400	0.82	0.83
450	0.80	0.81
500	0.77	0.78
600	0.73	0.74
700	0.69	0.70
800	0.64	0.66
900	-	0.62
1000	-	0.60
1100	-	0.58
1200	-	0.55
1300	-	0.50
1400	-	0.44
1500	-	0.40

FLEXIBLE:

RFSSH's assemblies exhibit amazing durability in applications of extreme flexure. Our larger diameter hose boasts a perfectly shaped omega profile to evenly distribute stress.

CLEAN:

RFSSH's inner core is exceptionally clean.

LEAK PROOF:

RFSSH hose assemblies have two pressure tight containment areas.

STRONG:

SSHT hose assemblies have a 500% greater fitting retention rate than assemblies made using a single weld process. We use twice as much welding material to create exceptionally strong assemblies.

LONG SERVICE LIFE:

Our forming process causes little work hardening of the base metal so our hose withstands more metal fatigue. We draw the corrugations into the hose instead of stretching the metal to form them.

RESISTANT TO VIBRATION AND STRESS:

We have achieved a uniform hose wall at critical stress points. This makes RFSSH far more durable.

SAFE:

RFSSH hose assemblies are pressure tested and subjected to separate quality checks. Our braid is made from 100,000 psi tensile strength wire per ASTM A580 for maximum safety.

PURE:

We use specified stainless steel welding rod to weld various grades of stainless steel. This makes our weld more corrosion resistant than the base stainless metal. We can argon purge our welds so that weld penetration is 100% and the weld is uniform and pure all the way through.

RFSSHT



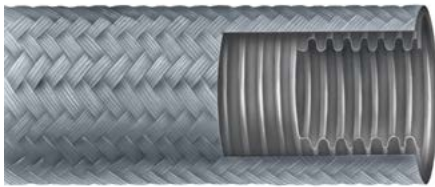
PTFE Lined Stainless Steel Corrugated Hose

TUBE: Seamless PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

RFSSH



Stainless Steel Corrugated Hose

TUBE: 316L corrugated stainless steel
321 corrugated stainless steel

COVER: 304SS braided stainless steel

TEMPERATURE:

316L SS Core: -400°F to 800°F

321 SS Core: -400°F to 1500°F

See page 27 for Temperature Correction Chart.

PART NUMBER KEY:

1 = No Outer Braid

2 = Single Outer Braid

3 = Double Outer Braid

This product is factory fabricated.

Features

- Available in no outer braid, 304SS single outer braid, and 304SS double outer braid for high pressure applications
- Hose inner core and outer braid are stainless steel
- Extremely flexible
- Size range: 1/4" to 14"
Consult factory for more information on availability for 16", 18", 20", 22", and 24" sizes
- Degreasing available

Applications

- High and low temperature
- Chemical transfer
- Continuous steam
- Vibration absorber
- Load cell

Hose Certifications

- Assemblies made in accordance with ISO 10380 standards for metal hose assemblies
- Meets NAHAD specifications

Part Number	Hose ID Inch	Hose OD Inch	Max. Working Pressure @ 70°F psig	Bend Radius Inch
04RFSSH1	0.25	0.40	145	4.0
04RFSSH2	0.25	0.45	2430	4.0
04RFSSH3	0.25	0.50	3190	4.0
06RFSSH1	0.38	0.59	80	6.0
06RFSSH2	0.38	0.64	1450	6.0
06RFSSH3	0.38	0.69	2580	6.0
08RFSSH1	0.50	0.77	80	6.0
08RFSSH2	0.50	0.83	1075	6.0
08RFSSH3	0.50	0.88	1500	6.0
12RFSSH1	0.75	1.02	60	8.0
12RFSSH2	0.75	1.08	950	8.0
12RFSSH3	0.75	1.14	1250	8.0
16RFSSH1	1.00	1.33	60	8.0
16RFSSH2	1.00	1.41	725	8.0
16RFSSH3	1.00	1.49	1110	8.0
20RFSSH1	1.25	1.62	50	10.0
20RFSSH2	1.25	1.70	563	10.0
20RFSSH3	1.25	1.78	825	10.0
24RFSSH1	1.50	1.88	35	10.0
24RFSSH2	1.50	1.95	500	10.0
24RFSSH3	1.50	2.05	800	10.0
32RFSSH1	2.00	2.45	15	13.0
32RFSSH2	2.00	2.53	478	13.0
32RFSSH3	2.00	2.61	638	13.0
40RFSSH1	2.50	3.23	12	20.0
40RFSSH2	2.50	3.33	387	20.0
40RFSSH3	2.50	3.43	619	20.0
48RFSSH1	3.00	3.78	10	22.0
48RFSSH2	3.00	3.88	316	22.0
48RFSSH3	3.00	3.98	506	22.0
64RFSSH1	4.00	4.85	8	27.0
64RFSSH2	4.00	4.98	232	27.0
64RFSSH3	4.00	5.10	371	27.0
80RFSSH1	5.00	5.90	6	31.0
80RFSSH2	5.00	6.03	191	31.0
80RFSSH3	5.00	6.15	306	31.0
96RFSSH1	6.00	6.87	5	36.0
96RFSSH2	6.00	7.10	165	36.0
96RFSSH3	6.00	7.33	264	36.0
128RFSSH1	8.00	9.09	6	40.0
128RFSSH2	8.00	9.19	234	40.0
128RFSSH3	8.00	9.28	374	40.0
160RFSSH1	10.00	11.18	5	50.0
160RFSSH2	10.00	11.32	230	50.0
192RFSSH1	12.00	13.23	3	60.0
192RFSSH2	12.00	13.37	161	60.0
224RFSSH1	14.00	14.60	17	70.0
224RFSSH2	14.00	15.00	110	70.0

METAL HOSE GLOSSARY OF TERMS

BEND RADIUS:

Constant Flexing: The minimum radius of a bend measured to the assembly's centerline to maximize assembly life and to be used in motion calculations.

Static Bend: The radius of a bend measured to the assembly's centerline to which an assembly may be bent for installation. The assembly should be subjected to no further motion other than vibration.

BRAID:

Tubular sheath of braided wires made to fit snugly over the hose and welded at the ends of the assembly. Braid is the pressure member of the assembly and prevents elongation of the corrugations under pressure.

CONSTRUCTION:

Annular: Convolutions that are a complete circle or ring.

Helical: Convolutions that are continuous and spiral along the length of the hose.

FAILURES (TYPICAL):

Abrasion: Failure caused by rubbing.

Braid Wear: Failure caused by motion between the braid and the corrugations.

Carbide Precipitation: Corrosion that occurs between dissimilar metals on the less noble of the metals.

Fatigue: Failure caused by flexing which results in the break down of the metal structure.

Squirm: Failure caused by excessive internal pressure that causes the corrugations to break out and shoot into an "S" OR "U" shape.

Torque: Excessive twisting of the assembly causing metal fatigue and failure.

FLOW RATE:

The volume of media being conveyed in a given time period.

FREQUENCY:

The rate of vibration or flexure of an assembly in a given period of time.

HARMONIC RESONANCE:

The sympathetic vibration of convolutions caused by buffeting of the convolutions by a high velocity gas or steam flow.

LENGTH:

Live: The length of the exposed hose and braid excluding weld rings and fittings.

Overall: The total length of the assembly including end fittings.

MOTION:

Angular Motion: Motion that occurs when one end of an assembly is deflected in a simple bend. In these applications, care must be taken not to unload the braid by expansion.

Offset Motion: Motion that occurs when the ends of an assembly are displaced laterally to each other in a plane perpendicular to the longitudinal axis with the ends remaining parallel. The offset radius should never be greater than 25% of the minimum centerline bend radius.

Radial Motion: Motion that occurs when the centerline of the assembly is bent in a circular arc.

Random Motion: Motion that occurs non-cyclically as when an assembly is handled manually.

PRESSURE:

Pressure Drop: The amount of pressure lost by the medium as it travels through the hose. In long assemblies, pressure loss can be estimated to three times that of comparably sized pipe.

Maximum Working Pressure: The maximum operating pressure to which the hose assembly should be subjected to.

Burst Pressure: The pressure at which the hose assembly can be expected to rupture or the braid fail in tensile. This pressure is determined in a laboratory setting at 70°F and the hose installed in a straight line.

Deformation Pressure: The pressure at which the hose corrugations will permanently deform regardless of the external braiding.

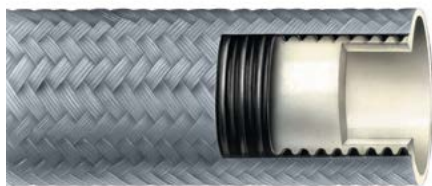
Test Pressure: The maximum pressure a hose can be tested at before damage will occur. It is not recommended that hydrostatic testing be conducted above 120% of the maximum working pressure, or 150% of the actual operating pressure of the particular application, whichever is less.

Pulsating Pressure: A rapid change in pressure above and below the normal base pressure.

Shock Pressure: Also called surge pressure. A sudden increase in pressure, which causes a shock wave through the assembly.

NOTE: For applications that experience pulsating, shock, or surge pressures, the peak pressure should not exceed 50% of the maximum working pressure and the braid must be tight to the hose with no slack after installation.

RFSSHT



PTFE Lined Stainless Steel Corrugated Hose

TUBE: Seamless PTFE

COVER: Braided stainless steel

TEMPERATURE: -20°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot Flanged Assembly	Weight Per Additional Foot
16RFSSHT	0.88	1.59	12	750	29	3.53	1.03
24RFSSHT	1.38	2.27	15	565	29	5.79	1.96
32RFSSHT	1.87	2.91	21	500	29	9.49	2.67
48RFSSHT	2.79	3.69	28	288	29	14.44	2.64
64RFSSHT*	3.76	4.84	46	250	20	21.57	3.17
96RFSSHT*	5.68	7.16	65	175	22	39.94	6.74
128RFSSHT*	7.71	9.31	89	212	20	62.50	9.50

* Available in 150# flange style only.

Features

- Smooth inner surface
- Bacteria free contact surface
- High purity
- Flare thru design eliminates metal corrosion and process contamination
- Available with optional 1/8" vent port

Applications

- High and low temperature
- Chemical transfer
- Continuous steam
- Vibration absorber
- Load cell

Hose Certifications

- Manufactured using FDA and 3-A compliant resin

End Fittings

- PTFE Flare thru Tri-Clamp®
- PTFE Flare thru 150# flange

Rubber Fab Technologies Group

Sight Gauges/ Level Indicators



Sight Gauges/Level Indicators

Sanitary sight glass assemblies are used widely in the food, dairy, beverage, biotech, pharmaceutical, and all other sanitary process industries to view products and fluids. Sanitary sight glass assemblies are placed inline with rigid pipe lines where product visibility is needed. Tank unloading, processing, and product transfer are a few of the many areas where sanitary sight glass assemblies are used inline with product transfer lines. Sanitary sight glass assemblies are available in a range of sight glass types including FEP, Polysulfone, and Pyrex®. Sanitary sight glass assembly end connections are available as radially crimped connections and unitized nonmetallic connections depending on the sight glass materials.

RFSG



Non-Caged FEP Sight Gauge

TEMPERATURE: -25°F to 300°F

END CONNECTIONS: 316L stainless steel sanitary Tri-Clamp®

RFCSG



Caged FEP Sight Gauge

TEMPERATURE: -25°F to 300°F

END CONNECTIONS: 316L stainless steel sanitary Tri-Clamp®

RFPSSG



Polysulfone Sight Gauge

TEMPERATURE: -20°F to 240°F

MOLDED END CONNECTIONS:

Tri-Clamp®

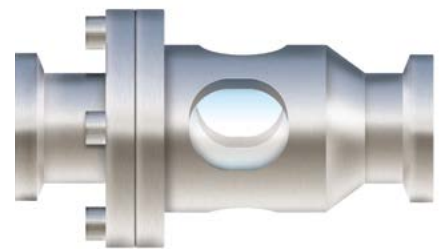
Maxi Tri-Clamp®

MPT

FPT

Consult Factory

RFBSG



Bolted Sight Gauge

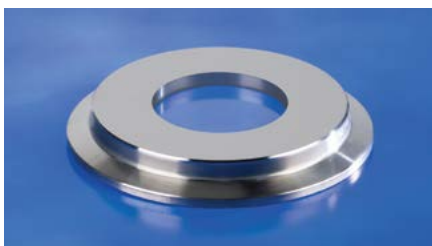
TEMPERATURE: Acrylic insert 180°F

Pyrex insert is dependent on temperature rating of gasket used in fitting connection

Sight Glasses

Rubber Fab offers an array of View Port and end cap sight glass options.

View Ports



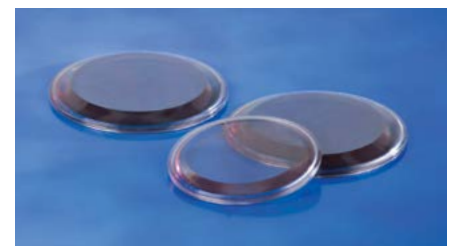
The strongest, most secure sanitary sight glass available, View Port's mechanically prestressed windows are available in a sanitary clamp design for sight ports in processing applications or inline visual flow indicators.

Acrylic End Caps



Rubber Fab offers acrylic sanitary fitting end caps for Bevel Seat, Tri-Clamp®, and I-Line fittings.

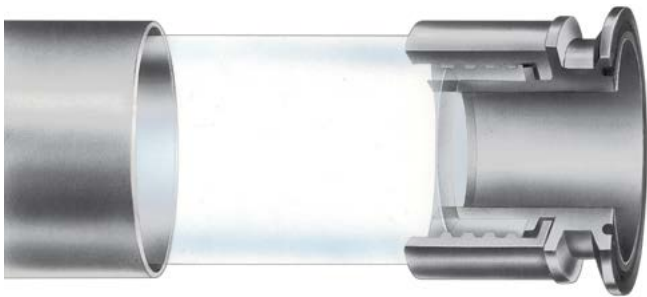
Polysulfone End Caps



Rubber Fab offers polysulfone sanitary fitting end caps.

**Also available in Lexan*

RFG



Non-Caged FEP Sight Gauge

TEMPERATURE: -25°F to 300°F

END CONNECTIONS: 316L stainless steel sanitary Tri-Clamp®
Consult factory for other end connection options

Part Number	Hose ID Inch	Hose OD Inch	Wall Thickness	Max. Working Pressure @ 70°F
08RFG	0.50	0.70	0.10	150 psi
12RFG	0.75	0.95	0.13	130 psi
16RFG	1.00	1.25	0.13	125 psi
24RFG	1.50	1.61	0.13	105 psi
32RFG	2.00	2.25	0.13	72 psi
40RFG	2.37	2.65	0.15	50 psi
48RFG	2.87	3.23	0.18	40 psi
64RFG	3.87	4.28	0.21	30 psi

Note:

ID is nominal bore only. Consult factory for fitting ID dimension.

Rubber Fab recommends a Rubber Fab factory crimp for this product.

Features

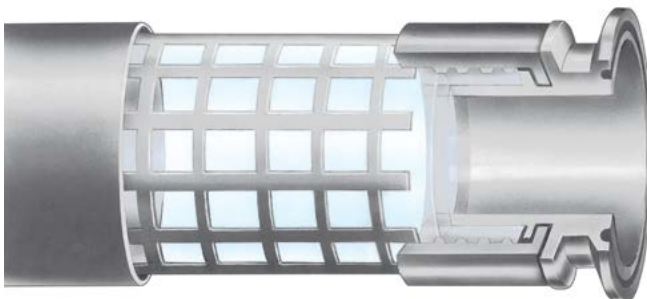
- Liquid level indicators
- Sturdy, favorable in high stress applications
- High and low temperature rated
- Smooth, non-stick surface cleans easily and promotes minimal pressure drop
- Non-contaminating
- Will not impart taste or odor
- Shatterproof tube
- Will not discolor
- Unaffected by ultraviolet or sunlight

Certifications

- 3-A Sanitary Standards
- USDA
- FDA



RFCSG



Caged FEP Sight Gauge

TEMPERATURE: -25°F to 300°F

END CONNECTIONS: 316L stainless steel sanitary Tri-Clamp®

Part Number	Hose ID Inch	Hose OD Inch	Wall Thickness	Max. Working Pressure @ 70°F
12RFCSG	0.75	1.00	0.13	150 psi
16RFCSG	1.00	1.25	0.13	250 psi
24RFCSG	1.50	1.75	0.13	200 psi
32RFCSG	2.00	2.25	0.13	100 psi
40RFCSG	2.50	2.75	0.13	100 psi
48RFCSG	3.00	3.25	0.13	100 psi
64RFCSG	4.00	4.25	0.13	100 psi

This product is factory fabricated.

Consult factory for individual length limits.

Features

- High pressure
- Liquid level indicators
- Sturdy, favorable in high stress applications
- High and low temperature rated
- Smooth, non-stick surface cleans easily and promotes minimal pressure drop
- Non-contaminating
- Will not impart taste or odor
- Shatterproof tube
- Will not discolor
- Unaffected by ultraviolet or sunlight

Certifications

- 3-A Sanitary Standards
- FDA 21 CFR 177.1550
- USDA



RFPSSG



Polysulfone Sight Gauge

TEMPERATURE: -20°F to 240°F

MOLDED END CONNECTIONS:

Tri-Clamp®

Maxi Tri-Clamp®

MPT - Only available in 1" (.86" ID)

Male and Female NPT x Tri-Clamp adapters are also available in both polypropylene and PVDF

Part Number	Hose ID Inch	Hose OD Inch	TC Size	Max. Working Pressure @ 70°F
08RFPSSG08TC08TCM	0.50	0.63	0.50	176 psi
12RFPSSG12TC12TCM	0.56	0.75	0.75	176 psi
16RFPSSG16TC16TCM	0.86	1.11	1" Ladish®	176 psi
16RFPSSG16MTC16MTCM	0.86	1.11	1" Maxi	125 psi
24RFPSSG24TC24TCM	1.36	1.61	1.50	125 psi
32RFPSSG32TC32TCM	1.86	2.11	2.00	125 psi
40RFPSSG40TC40TCM	2.36	2.61	2.50	62 psi
48RFPSSG48TC48TCM	2.86	3.11	3.00	62 psi
64RFPSSG64TC64TCM	3.81	4.06	4.00	44 psi

This product is factory fabricated.

Features

- Light weight
- Perfect surface connection prevents bacteria trap

Certifications

- FDA 21 CFR 177.1655

RFB SG



Bolted Sight Gauge

TEMPERATURE: Temperature rating for the borosilicate insert is dependent on temperature rating of gasket used in fitting connection. RFB SG comes standard with buna gasket and a temperature rating of 250°.

Borosilicate insert: 250°F

Acrylic insert: 180°F

Part Number	ID Inch	OAL Inch	# of Bolts	Max. Working Pressure @ 70°F Pyrex PSI	Max. Working Pressure @ 70°F Acrylic PSI
08RFB SG	0.50	3.00	4	378	1400
12RFB SG	0.75	3.00	4	325	450
16RFB SG	1.00	3.63	4	215	439
24RFB SG	1.50	3.63	4	150	306
32RFB SG	2.00	3.63	4	130	234
40RFB SG	2.50	3.63	6	100	160
48RFB SG	3.00	3.63	6	95	234
64RFB SG	4.00	3.63	8	60	n/a
96RFB SG	6.00	4.63	8	33	n/a

This product is factory fabricated.

Features

- Provides fast, continuous inspection from all angles
- Available with borosilicate or acrylic inserts
- Includes buna gasket. Also available with FKM fluoroelastomer and silicone
- Bevel Seat, Butt weld, I-Line, or Q-Line end configurations available

Certifications

- 3-A Sanitary Standards



View Ports



The strongest, most secure sight glass elements available, View Port's mechanically prestressed windows, are now available in a sanitary design for process applications.

Unlike some other sight glasses, View Port sight glasses meet the USP Type 1 standard for pharmaceutical use.

Described as offering the optics of glass and the strength of steel, these glass elements provide a level of safety, and a useful service life, well beyond that provided by conventional tempered glass or plastic in sanitary service. Even at the most extreme temperatures (as high as 536° F) or in overpressure situations, sudden, total failure that involve leakage or explosive shattering of the glass, essentially never occurs.

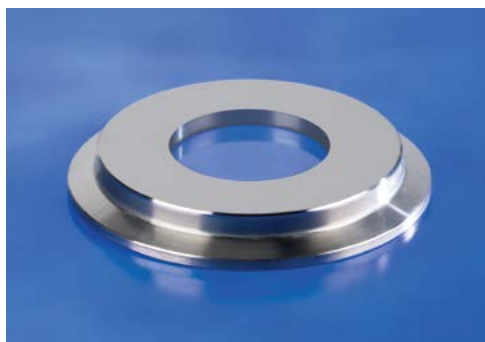
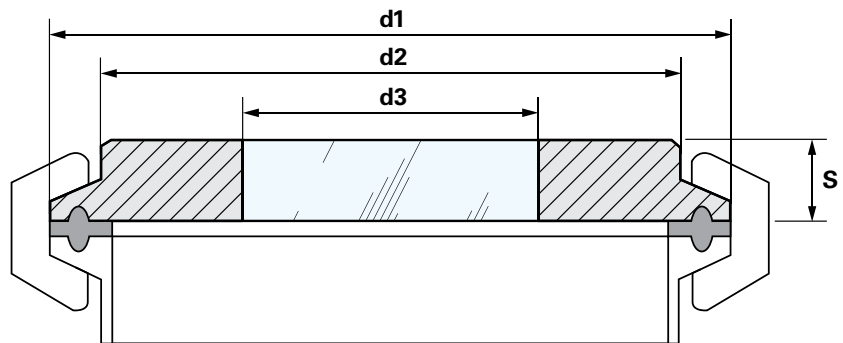
AVAILABLE IN:

Sanitary Tri-Clamp®
Bevel Seat
I-Line

Part Number	d1 Inch	d2 Inch	d3 Inch	S Inch	psig @ 536°F
RFVP-050-2205DSS	0.98	0.71	0.39	0.39	230
RFVP-075-2205DSS	0.98	0.71	0.39	0.39	230
RFVP-100-2205DSS	1.99	1.61	0.98	0.39	230
RFVP-150-2205DSS	1.99	1.61	0.98	0.39	230
RFVP-200-2205DSS	2.52	2.05	1.18	0.39	200
RFVP-250-2205DSS	3.05	2.72	1.38	0.39	200
RFVP-300-2205DSS	3.58	2.99	1.57	0.39	150
RFVP-400-2205DSS	4.69	4.02	2.17	0.47	150
RFVP-600-2205DSS	6.57	5.98	2.95	0.63	90
RFVP-800-2205DSS	8.56	7.80	3.94	0.71	90
RFVP-1000-2205DSS	10.55	9.65	4.72	0.79	90
RFVP-1200-2205DSS	12.56	11.81	5.51	0.87	80

Note:

Temperature and pressure apply to View Port only.



Applications

View Ports are manufactured to fit sanitary clamp connections. With simple, fast installation and no risk of breakage, this sleek, compact, one piece design provides a cleaner look, less bacteria traps, and unsurpassed safety. The View Port sight glass can be used as a viewable port mounted on a ferrule, a "cross" for inline visual flow indication or as a light port. Many other connection types are also available. Materials available include 2205 Duplex Stainless Steel, Hastelloy®, Monel®, and Inconel®.

Approvals & Technical Data

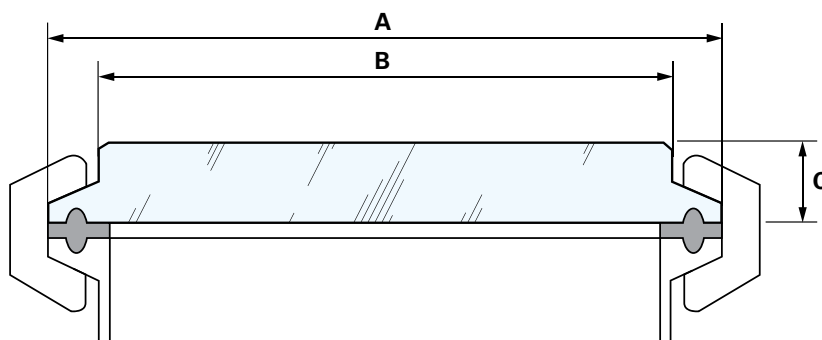
- USP Class VI (tested to confirm biocompatibility)
- BPE Compliant and TÜV Approved
- Sight glass fused to metal conforming to DIN7079
- Borosilicate glass to USP Type I and DIN7080
- Standard surface finish of 10 Ra µ-in (0.25µm)
- Material to ASTM/ASME, TÜV and DIN/EN standards
- Certificate of Conformity to EN 10204-3.1B or 3.1A
- Pressure Equipment Directive 97/23/EG

Acrylic and Lexan End Caps

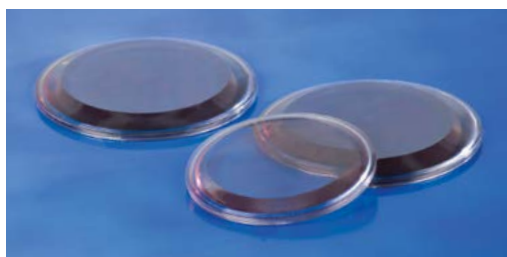


Size Inch	Part Number	A Dimension	B Dimension	C Dimension
1	16AMP-100-XX	1.98	1.23	0.35
1-1/2	16AMP-150-XX	1.98	1.23	0.35
2	16AMP-200-XX	2.52	1.76	0.35
2-1/2	16AMP-250-XX	3.00	2.29	0.35
3	16AMP-300-XX	3.58	2.80	0.35
4	16AMP-400-XX	4.68	3.92	0.35
6	16AMP-600-XX	6.57	5.03	0.60
8	16AMP-800-XX	8.57	7.20	0.50
10	16AMP-1000-XX	10.57	9.20	0.50
12	16AMP-1200-XX	12.57	11.20	0.50

Replace XX with AC for Acrylic or LX for Lexan
Also available in Bevel Seat or I-Line styles.



Polysulfone End Caps



Size Inch	Part Number	A Dimension	B Dimension	C Dimension
1	16AMP-100-PS	1.98	1.23	0.35
1-1/2	16AMP-150-PS	1.98	1.23	0.35
2	16AMP-200-PS	2.52	1.76	0.35
2-1/2	16AMP-250-PS	3.05	2.29	0.35
3	16AMP-300-PS	3.58	2.80	0.35
4	16AMP-400-PS	4.68	3.92	0.35
6	16AMP-600-PS	6.57	5.03	0.60
8	16AMP-800-PS	8.57	7.20	0.50
10	16AMP-1000-PS	10.57	9.20	0.50
12	16AMP-1200-PS	12.57	11.20	0.50

Also available in Bevel Seat or I-Line styles.
Also available in Lexan.

Metal Detection Tube



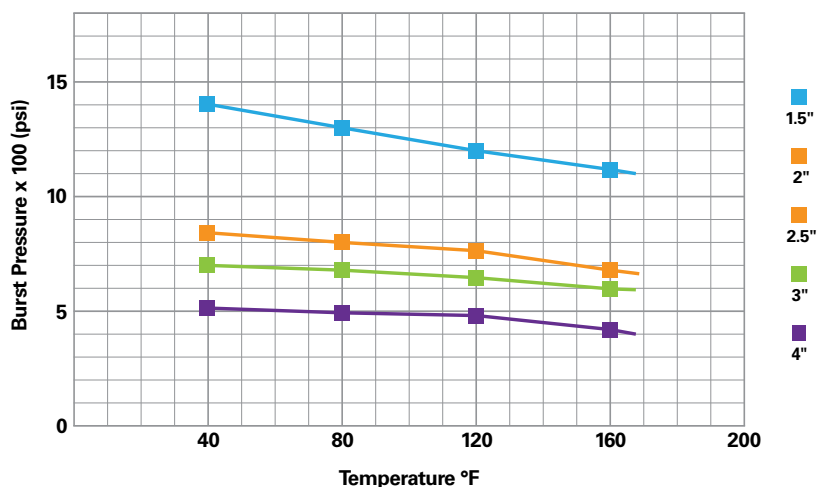
Metal Detection Tube

Rubber Fab's Metal Detection tubes are used as a metal detection machine component for viscous products such as liquids, slurries, syrups, pastes, and many other pumped products. When metal is detected in the product flow, a reject signal is channeled to one of the available output relays. The output relay can be used to activate a ball valve, control a visual or audio alarm, or send a signal to a PLC and release the rejected product, therefore minimizing product loss and costly downtime.

Size in Inches	Part Number
1-1/2	24RFKMD24TC24TCSS
2	32RFKMD32TC32TCSS
2-1/2	40RFKMD40TC40TCSS
3	48RFKMD48TC48TCSS
4	64RFKMD64TC64TCSS

Rubber Fab recommends a Rubber Fab factory crimp for this product.

Rubber Fab's sanitary metal detection tube assemblies are manufactured using steam cleanable USDA, FDA approved schedule 80 PVDF pipe suitable for system temperatures of -40°F to 240°F, and 316L sanitary Tri-Clamp® connections.



Notes:

- 1: Burst pressure based on tensile strength: $B.P. = 2(T.S. \times Wall)/OD$
- 2: To calculate working pressure, divide burst pressure by a safety factor of 3.
- 3: Pressure calculated for tubing only. Connections and ends must be calculated separately.

Laser Engraved Connections Available



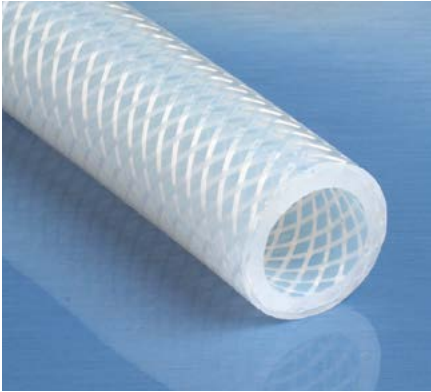
Silicone Hose



Silicone Hose

Rubber Fab's high purity platinum-cured and peroxide-cured silicone hoses are clean room produced for critical pharmaceutical, medical, cosmetic, and food applications.

RFSB



Smoothbore Platinum Cured Silicone Hose with Braid Reinforcement

TUBE: Smoothbore platinum cured silicone

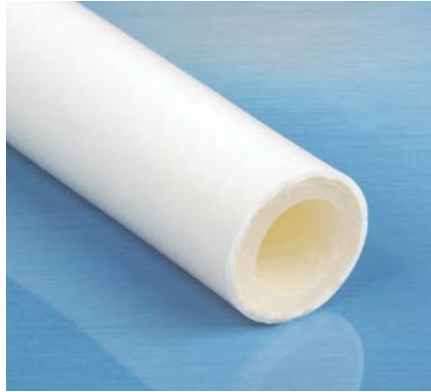
COVER: Platinum cured silicone

REINFORCEMENT: Polyester braid

COLOR: Translucent

TEMPERATURE: -100°F to 350°F

RFSBHP



Smoothbore Platinum Cured High Pressure Silicone Hose with Double Braid Reinforcement

TUBE: Smoothbore platinum cured silicone

COVER: Smoothbore white platinum silicone

REINFORCEMENT: Polyester braid

COLOR: White

TEMPERATURE: -100°F to 350°F

RFSV



Smoothbore Platinum Cured Silicone Hose with Wire Reinforcement

TUBE: Smoothbore platinum cured silicone

COVER: Platinum cured silicone

REINFORCEMENT: 4-Ply, polyester braid with stainless steel helix wire

COLOR: Translucent white

TEMPERATURE: -100° to 350°F

RFSBX



Medical Grade Smoothbore Peroxide Cured Silicone Hose with Braid Reinforcement

TUBE: Smoothbore peroxide cured silicone

COVER: Peroxide cured silicone

REINFORCEMENT: Polyester braid

COLOR: Translucent

TEMPERATURE: -80°F to 350°F

RFS4P



Smoothbore Platinum Cured Silicone Hose with 4-Ply Reinforcement

TUBE: Smoothbore platinum cured silicone

COVER: Platinum cured silicone

REINFORCEMENT: 4-Ply polyester braid

COLOR: Translucent white

TEMPERATURE: -100°F to 350°F

RFSVOC



Smoothbore Platinum Cured Silicone Hose with Wire Reinforcement and Silicone Outer Convuluted Cover

TUBE: Smoothbore platinum cured silicone

COVER: Corrugated platinum cured silicone

REINFORCEMENT: 4-Ply, polyester braid with stainless steel helix wire

COLOR: Translucent white

TEMPERATURE: -100° to 350°F

RFSB



Smoothbore Platinum Cured Silicone Hose with Braid Reinforcement

TUBE: Smoothbore platinum cured silicone

COVER: Platinum cured silicone

REINFORCEMENT: Polyester braid

COLOR: Translucent

TEMPERATURE: -100°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Weight Per Foot
04RFSB	0.25	0.50	1.00	140	0.08
06RFSB	0.38	0.63	1.00	140	0.10
08RFSB	0.50	0.88	3.00	105	0.21
10RFSB	0.63	0.99	3.00	100	0.24
12RFSB	0.75	1.13	4.00	90	0.29
16RFSB	1.00	1.41	6.00	60	0.40

Features

- Ultra flexible
- Hardness Value 65 Shore A
- Sterilizable by autoclave, CIP, SIP, and gamma radiation processes
- Will not impart taste or odor
- Clean room manufactured
- Non-toxic
- Non-pyrogenic
- Lot and batch traceable
- Resists temperature extremes and ozone

Applications

- Pharmaceutical processing
- Bio medical
- Laboratory
- Cosmetic
- Peristaltic pump applications
- Ultra pure liquid transfer
- Food processing
- Wash down stations
- Skid systems
- Veterinary pharmaceuticals
- Load cell applications
- Pharmaceutical skid transfer

Hose Certifications

- USP Class VI
- European Pharmacopoeia 3.1.9
- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- NSF 51 Core
- ISO 10993
- ADI Free®



RFSBX



Medical Grade Smoothbore Peroxide Cured Silicone Hose with Braid Reinforcement

TUBE: Smoothbore peroxide cured silicone

COVER: Peroxide cured silicone

REINFORCEMENT: Polyester braid

COLOR: Translucent

TEMPERATURE: -80°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Weight Per Foot
04RFSBX	0.25	0.52	1.00	208	0.09
06RFSBX	0.38	0.66	3.00	166	0.13
08RFSBX	0.50	0.80	3.00	141	0.17
12RFSBX	0.75	1.10	5.00	91	0.28
16RFSBX	1.00	1.38	6.00	75	0.36

Features

- Open mesh polyester braiding incorporated within the walls of silicone hose
- Translucent natural color for visual contact with the flow
- Will not impart taste or odor
- All ingredients are non-toxic and FDA sanctioned for use with food contact surfaces

Applications

- Adhesive lines
- Beverage service
- Bottle filling
- Chemical feeds
- Deionized water transfer
- Fermenter lines
- Hot fill lines
- Food handling
- Laboratory
- Resin feeds
- Stirring vessels
- Viscous material handling

Hose Certifications

- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- Meets NSF 51 requirements
- FDA sanctioned for use with food contact surfaces
- ADI Free®



RFSBHP



Smoothbore Platinum Cured High Pressure Silicone Hose with Double Braid Reinforcement

TUBE: Smoothbore platinum cured silicone

COVER: Smoothbore platinum silicone

REINFORCEMENT: Polyester braid

COLOR: White

TEMPERATURE: -100°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Weight Per Foot
08RFSB-HP	0.50	0.89	2.50	150	0.21
12RFSB-HP	0.75	1.18	3.00	188	0.29
16RFSB-HP	1.00	1.43	3.50	125	0.40

Features

- Smoothbore with braid reinforcement for increased working pressures
- Superior flexibility
- Sterilizable/autoclavable
- Will not impart taste or odor
- Lot and batch traceability
- Resists temperature extremes, ozone radiation, moisture, and environmental exposure
- Hardness value: core - 70 Shore A, outer cover - 60 Shore A
- Cleanroom manufactured and packaged

Applications

- Pharmaceutical skid transfer
- Pharmaceutical processing
- Load cell
- Vessel or tank transfer
- Media dispensing
- Laboratory use
- Water for injection (WFI)
- Bioreactor process lines
- Cosmetic processing
- Pump cultures

Hose Certifications

- USP Class VI
- European Pharmacopoeia 3.1.9
- FDA 177.2600
- 3-A Sanitary Standards
- NSF 51
- ISO 10993
- ADI Free®



RFS4P



Smoothbore Platinum Cured Silicone Hose with 4-Ply Reinforcement

TUBE: Smoothbore platinum cured silicone

COVER: Platinum cured silicone

REINFORCEMENT: 4-Ply polyester braid

COLOR: Translucent white

TEMPERATURE: -100°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Burst Pressure @ 70°F psig	Weight Per Foot
08RFS4P	0.50	0.92	2.50	150	600	0.28
12RFS4P	0.75	1.17	4.50	150	600	0.36
16RFS4P	1.00	1.42	9.00	150	600	0.44
24RFS4P	1.50	1.92	12.00	150	600	0.69
32RFS4P	2.00	2.42	CF	125	500	0.88
40RFS4P	2.50	2.92	CF	125	500	1.05
48RFS4P	3.00	3.42	CF	100	400	1.23
64RFS4P	4.00	4.42	CF	100	400	CF

RFS4P is manufactured in 12 foot lengths.

CF = Consult Factory

Features

- Ultra flexible
- Sterilizable by autoclave, CIP, SIP, and gamma radiation processes
- Hardness value of 70 Shore A
- Will not impart taste or odor
- Clean room manufactured
- Non-toxic
- Non-pyrogenic
- Lot and batch traceable
- Resists temperature extremes and ozones

Applications

- Food processing
- Medical/surgical applications
- Dairy
- Beverage
- Fermentation
- Biotechnology
- Pharmaceutical processing
- Load cells
- Cell cultures
- WFI transfer
- Pump applications
- Not intended for steam applications

Hose Certifications

- USP Class VI
- European Pharmacopoeia 3.1.9
- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- ADI Free®



RFSV



Smoothbore Platinum Cured Silicone Hose with Wire Reinforcement

TUBE: Smoothbore platinum cured silicone

COVER: Platinum cured silicone

REINFORCEMENT: 4-Ply, polyester braid with stainless steel helix wire

COLOR: Translucent white

TEMPERATURE: -100°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFSV	0.50	0.91	2.00	150	FULL	0.28
12RFSV	0.75	1.16	2.50	150	FULL	0.36
16RFSV	1.00	1.41	3.50	150	FULL	0.44
24RFSV	1.50	1.91	4.00	150	FULL	0.69
32RFSV	2.00	2.41	6.00	125	FULL	0.88
40RFSV	2.50	2.91	11.00	125	FULL	1.05
48RFSV	3.00	3.41	13.00	100	CF	1.23
64RFSV	4.00	4.41	CF	100	CF	1.71

RFSV is manufactured in 12 foot lengths.

CF = Consult Factory

Features

- Ultra flexible
- Sterilizable by autoclave, CIP, SIP, and gamma radiation processes
- Hardness Value 70 Shore A
- Will not impart taste or odor
- Clean room manufactured
- Non-toxic
- Non-pyrogenic
- Lot and batch traceable
- Resists temperature extremes and ozones

Applications

- Pharmaceutical processing
- Bio medical
- Laboratory
- Cosmetic
- Ultra pure liquid transfer
- Food processing
- Wash down stations
- Veterinary pharmaceuticals
- Load cell applications
- Pharmaceutical skid transfer

Hose Certifications

- USP Class VI
- European Pharmacopoeia 3.1.9
- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- NSF 51 Core
- ISO 10993
- ADI Free®



RFSVOC



Smoothbore Platinum Cured Silicone Hose with Wire Reinforcement and Silicone Outer Convuluted Cover

TUBE: Smoothbore platinum cured silicone

COVER: Corrugated platinum cured silicone

REINFORCEMENT: 4-Ply, polyester braid with stainless steel helix wire

COLOR: Translucent white

TEMPERATURE: -100°F to 350°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
08RFSVOC	0.50	0.91	2.00	150	FULL	0.21
12RFSVOC	0.75	1.16	2.50	150	FULL	0.31
16RFSVOC	1.00	1.41	3.50	150	FULL	0.39
24RFSVOC	1.50	1.91	4.00	150	FULL	0.63
32RFSVOC	2.00	2.41	6.00	125	FULL	0.78

SVOC is manufactured in 12 foot lengths.

Features

- Smooth inner bore
- Ultra flexible
- Sterilizable by autoclave, CIP, SIP, and gamma radiation
- Hardness Value of 70 Shore A
- Will not impart taste or odor
- Clean room manufactured
- Non-toxic
- Non-pyrogenic
- Lot and batch traceable
- Resists temperature extremes and ozones

Applications

- Pharmaceutical processing
- Biomedical
- Laboratory
- Cosmetic
- Ultra pure liquid transfer
- Food processing
- Wash down stations
- Skid systems
- Veterinary pharmaceuticals
- Load cell applications

Hose Certifications

- USP Class VI
- European Pharmacopoeia 3.1.9
- FDA 21 CFR 177.2600
- 3-A Sanitary Standards
- NSF 51 Core
- ISO 10993
- ADI Free®



Rubber Fab Technologies Group

Reusable Fittings

**DID YOU
KNOW?**

Rubber Fab's sanitary reusable fittings meet the needs and requirements of critical processing industries such as pharmaceutical, dairy, food, beverage, cosmetics, instrumentation, and cleaning aids while being totally reusable.

This presents significant cost savings when hose assemblies need to be frequently replaced.

Rubber Fab's reusable fittings are sanitary, autoclavable, easy to use, and are available from 1/4" to 2".



For details on ordering and size chart
SEE PAGE 71

Contact factory for additional information or visit
WWW.RUBBERFAB.COM

Molded Labeling

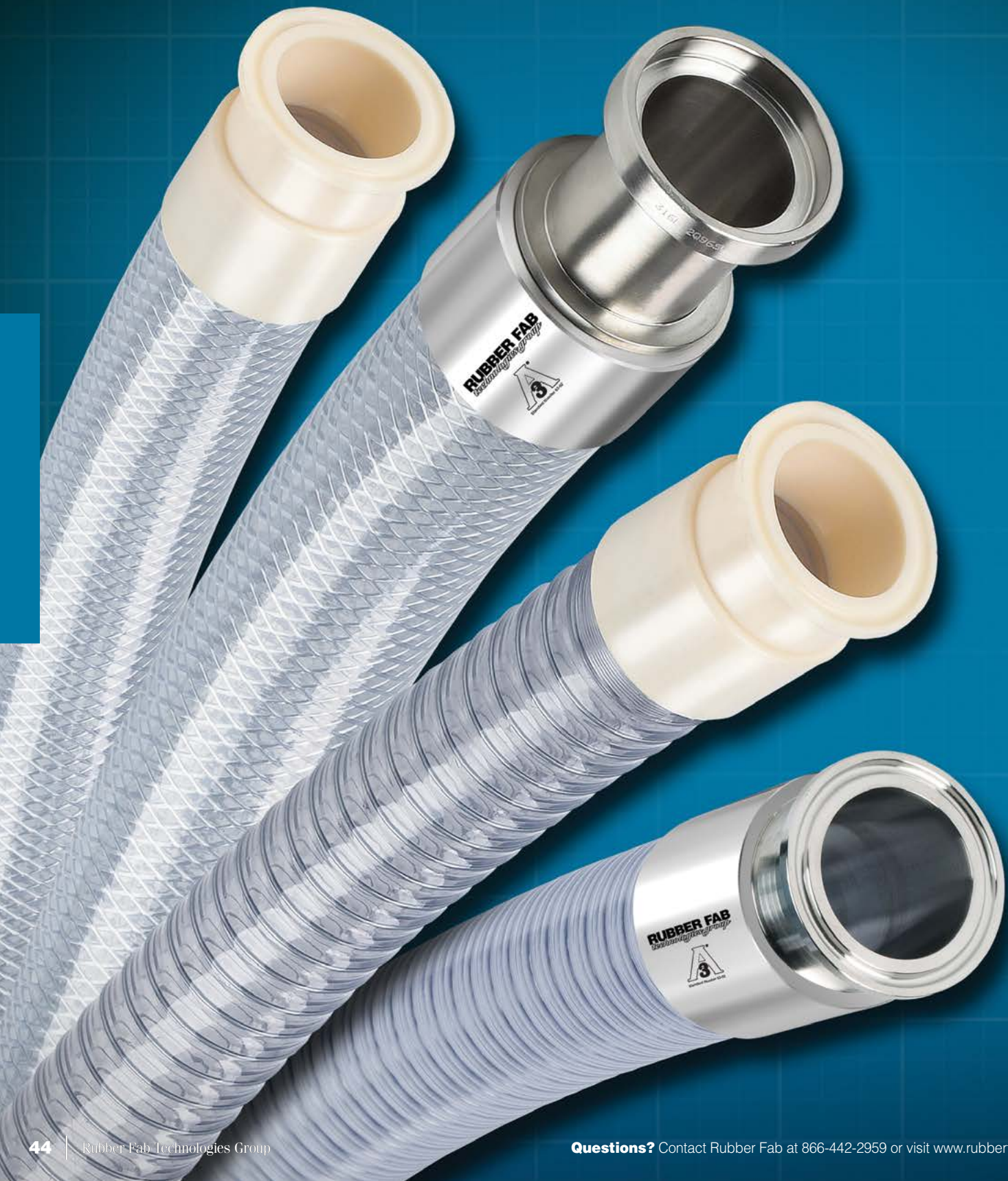


Sanitary hose labeling system uses permanently vulcanized silicone to encase a label to the outside of the silicone hose for quick, easy to read identification. Color identification striping available.



Rubber Fab Technologies Group

FDA PVC Hose



FDA PVC Hose

Rubber Fab FDA PVC hoses are designed to transport a wide variety of fluids without imparting odor or taste. Non-toxic, non-pyrogenic, and alkaline resistant, these features render our hoses ideal for food/beverage, laboratory, and surgical/hospital applications.

RFPB



FDA Smoothbore PVC Hose with Braid Reinforcement

TUBE: Smoothbore FDA PVC

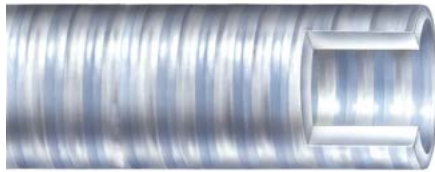
COVER: Smoothbore FDA PVC

REINFORCEMENT: Polyester textile inner braid

COLOR: Transparent

TEMPERATURE: 25°F to 150°F

RFPVV



Smoothbore FDA PVC Hose with Spiral PVC Reinforcement

TUBE: Smoothbore FDA PVC

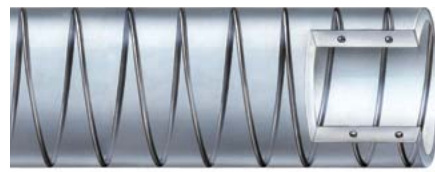
COVER: Smoothbore FDA PVC

REINFORCEMENT: Clear PVC helical reinforcement

COLOR: Translucent

TEMPERATURE: 25°F to 150°F

RFPVW



Smoothbore FDA PVC Hose with Wire Reinforcement

TUBE: Smoothbore FDA PVC

COVER: Smoothbore FDA PVC

REINFORCEMENT: Steel wire reinforcement

COLOR: Transparent

TEMPERATURE: 25°F to 150°F

For clear, non-reinforced PVC (vinyl) tubing, please see Tubing Section starting on page 50.

IN ADDITION TO BULK HOSE AND CRIMPED ASSEMBLIES, RUBBER FAB ALSO OFFERS PVC HOSE ASSEMBLIES WITH HYTREL UNITIZED ENDS





FDA Smoothbore PVC Hose with Braid Reinforcement

TUBE: Smoothbore FDA PVC

COVER: Smoothbore FDA PVC

REINFORCEMENT: Polyester textile inner braid

COLOR: Transparent

TEMPERATURE: 25°F to 150°F

Part Number	Hose ID Inch	Hose OD Inch	Max. Working Pressure @ 70°F psig	Weight Per Foot
02RFPB	0.13	0.33	350	0.04
03RFPB*	0.19	0.41	350	0.06
04RFPB	0.25	0.50	350	0.08
05RFPB*	0.31	0.56	275	0.09
06RFPB	0.38	0.63	275	0.11
08RFPB	0.50	0.81	250	0.17
10RFPB	0.63	1.00	225	0.26
12RFPB	0.75	1.13	200	0.30
16RFPB	1.00	1.38	150	0.38
20RFPB*	1.25	1.75	125	0.64
24RFPB	1.50	2.00	100	0.75
32RFPB	2.00	2.50	75	0.96

* Bulk hose only.

Features

- Will not impart taste or odor
- Non-toxic
- Non-pyrogenic
- Alkaline resistant
- Clear and flexible
- Available in bulk or fabricated assemblies

Applications

- Chemical processing and transfer
- Pharmaceutical manufacturing
- Food and syrup handling
- Beverage transfer
- Dairy processing
- Air lines
- Pump feed and discharge
- Laboratory and research
- Instrumentation
- General water suction and discharge
- Irrigation systems
- Hydraulics and pneumatics
- Spray systems
- Filters

Hose Certifications

- Meets FDA CFR Title 21 170-199
- 3-A Sanitary Standards



RFPB – Food Grade PVC Braided Hose Assembly with Unitized Ends



Part Number	Hose ID Inch	Hose OD Inch	Tri-Clamp® Size	FPT Size	MPT Size	Working Pressure*
02RFPB	0.13	0.33	Mini	N/A	N/A	350
04RFPB	0.25	0.50	Mini & 1	1/2	1/4 & 1/2	350
06RFPB	0.38	0.63	Mini & 1	3/8	1/2	275
08RFPB	0.50	0.75	Mini, 1 & Maxi	1/2	1/2	250
10RFPB	0.63	0.88	Mini & 1	N/A	N/A	225
12RFPB	0.75	1.13	1 & Maxi	N/A	3/4 & 1	200
16RFPB	1.00	1.38	1-1/2 & 2	N/A	N/A	150
20RFPB	1.25	1.63	1-1/2	N/A	N/A	125
24RFPB	1.50	2.00	2	N/A	2	100
1856RFPB	1.86	2.37	2 & 2-1/2	N/A	N/A	75
32RFPB	2.00	2.50	2-1/2	N/A	N/A	75

*at 68°F

Note:

Safety factor of 3:1 working pressure for tubing only.

The fittings chart above reflects molded, unitized connections only. Consult factory for assembly part numbers.

Also available stainless steel crimped connections, I-Line, Q-Line, and Bevel Seat with nut.

RFPVV



Smoothbore FDA PVC Hose with Spiral PVC Reinforcement

TUBE: Smoothbore FDA PVC

COVER: Smoothbore FDA PVC

REINFORCEMENT: Clear PVC helical reinforcement

COLOR: Translucent

TEMPERATURE: 25°F to 150°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
12RFPVV	0.75	0.94	3.00	105	28	0.20
16RFPVV	1.00	1.25	3.00	100	28	0.27
20RFPVV*	1.25	1.50	3.00	95	28	0.30
24RFPVV	1.50	1.81	4.00	85	28	0.40
32RFPVV	2.00	2.38	5.00	80	28	0.60
40RFPVV	2.50	2.88	7.00	75	28	0.85
48RFPVV	3.00	3.44	8.00	65	28	1.15
64RFPVV	4.00	4.50	10.00	50	28	1.75
80RFPVV*	5.00	5.51	28.00	40	28	2.41
96RFPVV	6.00	6.59	48.00	30	28	3.28
128RFPVV	8.00	8.85	60.00	25	28	5.67

* Bulk hose only.

Features

- Will not impart taste or odor
- Non-toxic
- Non-pyrogenic
- Alkaline resistant
- Flexible
- Available in bulk or fabricated assemblies

Applications

- Chemical processing and transfer
- Pharmaceutical manufacturing
- Food and syrup handling
- Beverage transfer
- Dairy processing
- Air lines
- Pump feed and discharge
- Laboratory and research
- Instrumentation
- General water suction and discharge
- Irrigation systems
- Vacuum lines
- Hydraulics and pneumatics
- Spray systems
- Filters

Hose Certifications

- Meets FDA CFR Title 21 170-199
- Meets 3-A Sanitary Standards
- Meets USDA



RFPVV – PVC Spiral Reinforced Assembly with Unitized Ends



Part Number	Hose ID Inch	Hose OD Inch	Tri-Clamp® Size	Working Pressure*
40RFPVV	2.50	2.88	3	75

*at 68°F

Note:

Safety factor of 3:1 working pressure for tubing only.

The fittings chart above reflects molded, unitized connections only.

Consult factory for assembly part numbers.

Also available stainless steel crimped connections, I-Line, Q-Line, and Bevel Seat with nut.



Smoothbore FDA PVC Hose with Wire Reinforcement

TUBE: Smoothbore FDA PVC

COVER: Smoothbore FDA PVC

REINFORCEMENT: Steel wire reinforcement

COLOR: Transparent

TEMPERATURE: 25°F to 150°F

Part Number	Hose ID Inch	Hose OD Inch	Bend Radius Inch	Max. Working Pressure @ 70°F psig	Vacuum Rating @ 70°F in. Hg.	Weight Per Foot
04RFPVW	0.25	0.46	1.00	150	FULL	0.07
06RFPVW	0.38	0.60	1.50	100	FULL	0.11
08RFPVW	0.50	0.75	2.00	100	FULL	0.15
10RFPVW	0.63	0.89	2.50	50	FULL	0.19
12RFPVW	0.75	1.03	3.00	70	FULL	0.24
16RFPVW	1.00	1.30	4.00	100	FULL	0.44
20RFPVW*	1.25	1.61	5.00	70	FULL	0.50
24RFPVW	1.50	1.86	6.00	50	FULL	0.58
32RFPVW	2.00	2.39	8.00	50	FULL	0.84
36RFPVW*	2.25	2.75	9.00	50	FULL	1.16
40RFPVW	2.50	3.00	10.00	50	FULL	1.38
48RFPVW	3.00	3.50	12.00	50	FULL	1.62

* Bulk hose only.

Features

- Clear and flexible
- Will not impart taste or odor
- Non-toxic
- Non-pyrogenic
- Alkaline resistant
- Available in bulk or fabricated assemblies
- Static grounding available

Applications

- Chemical processing and transfer
- Pharmaceutical manufacturing
- Food and syrup handling
- Beverage transfer
- Dairy processing
- Air lines
- Laboratory and research
- Instrumentation
- General water suction and discharge
- Irrigation systems
- Hydraulics and pneumatics

Hose Certifications

- USP Class VI
- FDA CFR Title 21 170-199
- 3-A Sanitary Standards
- NSF/ANSI STD 51
- RoHS
- USDA



RFPVW – Food Grade PVC Wire Reinforced Vacuum Hose Assembly with Unitized Ends



Part Number	Hose ID Inch	Hose OD Inch	Tri-Clamp® Size	FPT Size	MPT Size	Working Pressure*
06RFPVW	0.38	0.63	Mini & 1	3/8	1/2	150
08RFPVW	0.50	0.75	Mini & 1	1/2	1/2	150
10RFPVW	0.63	0.88	Mini & 1	N/A	N/A	150
12RFPVW	0.75	1.00	1 & Maxi	N/A	3/4 & 1	150
16RFPVW	1.00	1.25	1-1/2 & 2	N/A	N/A	100
20RFPVW	1.25	1.56	1-1/2	N/A	N/A	100
24RFPVW	1.50	1.89	2	N/A	2	100
32RFPVW	2.00	2.36	2-1/2	N/A	N/A	100

*at 68°F

Note:

Safety factor of 3:1 working pressure for tubing only.

The fittings chart above reflects molded, unitized connections only. Consult factory for assembly part numbers. Also available stainless steel crimped connections, I-Line, Q-Line, and Bevel Seat with nut.

Unitized Ends



Tri-Clamp®



Male NPT



Male I-Line



Mini Tri-Clamp®



Female NPT



Female I-Line

Also available, not shown, Q-Line and Bevel Seat molded ends.

TBL Plastics, a Rubber Fab Technologies Group Affiliate Company

Tubing and Tubing Assemblies

Specializing in Mini Tubing Assemblies



Disclaimer: All product information is provided only as a reference to aid in material selection. Ultimately, users are responsible to determine the effectiveness, safety and regulatory compliance of Thermoplastics BioLogic LLC products in any application through tests done using their particular process conditions.

Cleargreen®

The Original Phthalate Free Vinyl Tubing

As part of TBL's continued commitment towards environmental responsibility, we offer our complete line of Cleargreen® flexible vinyl tubing. Most flexible PVC tubing sold today contains DEHP (phthalate plasticizers). Phthalates are known to present increased health and environmental risks. Cleargreen® tubing complies with California EPA environmental standards, EU's REACH (article 33.1) and RoHS regulations.



Features

- Phthalate free
- Non-pyrogenic and non-hemolytic
- Ultra smooth interior
- Superior flexibility
- Lot and batch traceable
- Contains no BPA
- Excellent chemical resistance
- Lot-to-lot consistency for reproducible results
- Slips easily over fittings and grips securely
- Available: bulk, spooled, with molded or crimped ends

Applications

- Laboratory research
- Analytical instruments
- Peristaltic and vacuum pumps
- Food and beverage
- Pharmaceuticals
- Biologics
- Medical device
- Brewery consumer products
- Environmental
- Raw milk
- Consumer products
- Ideal for condensers, incubators, desiccators, gas lines, and drain lines

Quality Standards

- USP Class VI
- FDA 21 CFR Part 175.300
- FDA 21 CFR Part 181.27
- FDA 21 CFR Part 178.2010
- FDA 21 CFR Part 178.3297
- Meets 3-A Sanitary Standards
- ADI Free®
- REACH Compliant
- RoHS Compliant
- Meets USDA

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Part Number	ID Inch	OD Inch	Wall Inch	Bend Radius Inch	Max WP @ 72°F psig	Vacuum Rating @ 72°F in. Hg.	Weight Per 50 Foot Coil
CG-032X062	1/32	1/16	1/64	1/16	50	29.9	0.07
CG-032X093	1/32	3/32	1/16	1/8	100	29.9	0.17
CG-062X125	1/16	1/8	1/32	1/4	33	29.9	0.25
CG-093X156	3/32	5/32	1/16	3/8	42	29.9	0.34
CG-118X157	.118	.0157	.0195	CF	CF	CF	0.35
CG-120X170	.120	.170	.025	CF	15	CF	0.44
CG-125X187	1/8	3/16	1/32	1/2	44	25.0	0.41
CG-125X250	1/8	1/4	1/16	3/8	68	29.9	0.99
CG-156X218	5/32	7/32	1/32	3/4	38	15.0	0.49
CG-156X250	5/32	1/4	3/64	1	CF	20.0	0.81
CG-170X250	.170	.250	.04	CF	42	CF	0.71
CG-187X312	3/16	5/16	1/16	5/8	55	29.9	1.32
CG-187X375	3/16	3/8	3/32	1/2	70	29.9	2.25
CG-187X437	3/16	7/16	1/8	3/8	80	29.9	3.30
CG-240X370	.240	.370	.065	CF	CF	CF	1.67
CG-250X375	1/4	3/8	1/16	1	55	25.0	1.65
CG-250X437	1/4	7/16	3/32	3/4	60	29.9	2.72
CG-250X500	1/4	1/2	1/8	5/8	70	29.9	4.00
CG-312X437	5/16	7/16	1/16	1-3/8	50	15.0	1.98
CG-375X500	3/8	1/2	1/16	1-3/4	40	10.0	2.32
CG-375X562	3/8	9/16	3/32	1-3/8	50	25.0	3.70
CG-375X625	3/8	5/8	1/8	1-1/8	65	29.9	5.28
CG-437X625	7/16	5/8	3/32	1-3/4	45	18.0	4.22
CG-500X625	1/2	5/8	1/16	2-7/8	30	6.0	2.97
CG-500X687	1/2	11/16	3/32	2-1/8	40	15.0	4.69
CG-500X750	1/2	3/4	1/8	1-3/4	45	25.0	6.60
CG-500X1000	1/2	1	1/4	2-1/2	67	29.9	15.83
CG-562X750	9/16	3/4	3/32	2-1/2	40	10.0	5.21
CG-625X875	5/8	7/8	1/8	2-3/8	40	15.0	7.92
CG-625X1000	5/8	1	3/16	2	49	25.0	12.86
CG-687X937	11/16	15/16	1/8	1-3/4	35	21.0	8.60
CG-750X1000	3/4	1	1/8	3-1/4	35	10.0	9.23
CG-750X1062	3/4	1-1/16	5/32	4	40	15.0	11.96
CG-750X1125	3/4	1-1/8	3/16	4-1/2	37	13.0	14.80
CG-875X1125	7/8	1-1/8	1/8	4-1/8	30	10.0	10.56
CG-1000X1125	1	1-1/8	1/16	3-1/2	18	5.0	5.61
CG-1000X1250	1	1-1/4	1/8	5-1/8	28	5.0	11.88
CG-1000X1375	1	1-3/8	3/16	5-1/2	45	8.0	18.80

CF = Consult Factory

Custom colors available - See page 52.

Cleargreen® 60

The Original Phthalate Free Vinyl Tubing

Cleargreen® 60 was designed to be softer for use in laboratory equipment and vacuum lines. With other manufacturers reacting to the need for phthalate free vinyl, TBL now offers our Cleargreen® 60 which is compounded from the same ingredients as our well established original formula with one difference. Cleargreen® 60 specifically formulated for use in laboratory equipment and vacuum lines.



Features

- Higher pressure/vacuum ratings
- Available with crimped, molded or reusable end connections
- Ultra smooth interior
- Superior flexibility
- Lot and batch traceable
- Contains no BPA
- Outstanding chemical resistance
- Lot-to-lot consistency for reproducible results
- Slips easily over fittings and grips securely

Applications

- Laboratory research
- Analytical instruments
- Peristaltic and vacuum pumps
- Ideal for condensers, incubators, desiccators, gas lines, and drain lines
- Food and beverage
- Pharmaceuticals
- Biologics
- Medical device
- Brewery
- Consumer products
- Environmental
- Raw milk

Quality Standards

- USP Class VI
- FDA 21 CFR Part 175.300
- FDA 21 CFR Part 181.27
- FDA 21 CFR Part 178.2010
- FDA 21 CFR Part 178.3297
- Meets 3-A Sanitary Standards
- ADI Free®
- REACH Compliant
- RoHS Compliant
- Meets USDA

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Part Number	ID Inch	OD Inch	Wall Inch	Bend Radius Inch	Max WP @ 72°F psig	Vacuum Rating @ 72°F in. Hg.	Weight Per 50 Foot Coil
CG-60-032X093	1/32	3/32	1/32	1/8	70	29.9	0.2
CG-60-063X125	1/16	1/8	1/32	1/4	35	29.9	0.2
CG-60-062X187	1/16	3/16	1/16	1/8	67	29.9	0.6
CG-60-093X156	3/32	5/32	1/32	3/8	26	29.9	0.3
CG-60-093X218	3/32	7/32	1/16	1/4	47	29.9	0.8
CG-60-125X187	1/8	3/16	1/32	1/2	20	21.0	0.4
CG-60-125X250	1/8	1/4	1/16	3/8	39	29.9	0.9
CG-60-156X281	5/32	9/32	1/16	1/2	31	29.9	1.1
CG-60-187X312	3/16	5/16	1/16	5/8	27	29.9	1.2
CG-60-187X375	3/16	3/8	3/32	1/2	36	29.9	2.1
CG-60-187X437	3/16	7/16	1/8	3/8	45	29.9	3.1
CG-60-187X562	3/16	9/16	3/16	1/4	66	29.9	5.5
CG-60-250X375	1/4	3/8	1/16	1	23	19.0	1.5
CG-60-250X500	1/4	1/2	1/8	1/2	38	29.9	3.7
CG-60-250X437	1/4	7/16	3/32	7/8	29	29.9	2.5
CG-60-250X625	1/4	5/8	3/16	1/2	49	29.9	6.5
CG-60-312X500	5/16	1/2	3/32	1-1/8	23	29.9	3.0
CG-60-312X562	5/16	9/16	1/8	1	32	29.9	4.3
CG-60-312X625	5/16	5/8	5/32	3/4	37	29.9	5.8
CG-60-375X500	3/8	1/2	1/16	1-1/2	15	10.0	2.2
CG-60-375X625	3/8	5/8	1/8	1-1/8	23	29.9	4.9
CG-60-375X875	3/8	7/8	1/4	5/8	44	29.9	12.3
CG-60-437X625	7/16	5/8	3/32	1-3/4	19	14.0	3.9
CG-60-437X687	7/16	11/16	1/8	1-3/8	24	27.0	5.5
CG-60-500X625	1/2	5/8	1/16	2-3/4	11	6.0	2.8
CG-60-500X750	1/2	3/4	1/8	1-1/2	21	22.0	6.2
CG-60-500X1125	1/2	1-1/8	5/16	7/8	44	29.9	20.0
CG-60-625X1375	5/8	1-3/8	3/8	1	40	29.9	29.6
CG-60-750X1000	3/4	1	1/8	3-3/8	13	10.0	8.6
CG-60-750X1500	3/4	1-1/2	3/8	1-1/2	34	29.9	33.3
CG-60-1000X1375	1	1-3/8	3/16	4-1/4	15	11.0	17.6
CG-60-1000X1500	1	1-1/2	1/4	3-1/8	23	22.0	24.7

Cleargreen® and Cleargreen® 60 are also available in custom colors.
Colors available: Blue, Green, Red, Yellow, Gray, Black, White,



Pharm-A-Line™ I

Ideal for Pharmaceutical, Biological, and Food and Beverage Applications



Pharm-A-Line™ I (Thermoplastic Elastomer Tubing) has low gas permeability, can withstand repeated sterilization in an autoclave, and is considered to have a longer service life than silicone. It is recommended for most biological process fluids, sterile solutions, buffer agents, and food and beverage processing.

Part Number	ID Inch	OD Inch	Wall Inch	Pump Size	Bend Radius Inch	Max WP @ 72°F psig	Vacuum Rating @ 72°F in. Hg.	Weight Per 50 Foot Coil
PHI-031X093	1/32	3/32	1/32		3/16	96	29.9	0.1
PHI-031X156	1/32	5/32	1/16	#13	1/8	80	29.9	0.4
PHI-062X125	1/16	1/8	1/32		1/4	23	29.9	0.2
PHI-062X187	1/16	3/16	1/16	#14	1/8	45	29.9	0.5
PHI-062X250	1/16	1/4	3/32		1/8	50	29.9	0.9
PHI-125X187	1/8	3/16	1/32		1/2	13	25	0.3
PHI-125X250	1/8	1/4	1/16	#16	1/2	24	29.9	0.8
PHI-125X312	1/8	5/16	3/32		3/8	29	29.9	1.3
PHI-125X375	1/8	3/8	1/8		1/4	35	29.9	2.0
PHI-187X312	3/16	5/16	1/16	#03 #25	5/8	18	29.9	1.0
PHI-187X375	3/16	3/8	3/32	#15	1/2	22	29.9	1.7
PHI-187X437	3/16	7/16	1/8		3/8	27	29.9	2.5
PHI-187X500	3/16	1/2	5/32		3/8	34	29.9	3.5
PHI-250X375	1/4	3/8	1/16	#17	7/8	14	25	1.3
PHI-250X437	1/4	7/16	3/32	#24	3/4	16	CF	2.1
PHI-250X500	1/4	1/2	1/8	#26	3/4	24	29.9	3.0
PHI-312X375	5/16	3/8	1/32		1-5/8	9	CF	0.7
PHI-312X437	5/16	7/16	1/16	#18	1-3/8	10	14.5	1.5
PHI-312X500	5/16	1/2	3/32	#35	1-1/4	13	18	2.5
PHI-375X500	3/8	1/2	1/16	#96	1-1/2	9	11	1.8
PHI-375X562	3/8	9/16	3/32	#73	1-1/4	13	CF	2.8
PHI-375X625	3/8	5/8	1/8	#81	1-1/8	17	29.9	4.0
PHI-375X750	3/8	3/4	3/16		1	21	29.9	6.8
PHI-500X750	1/2	3/4	1/8	#82	1-1/8	10	25	5.1
PHI-500X875	1/2	7/8	3/16		1	13	29.9	8.3
PHI-625X750	5/8	3/4	1/16		3	8	10	2.8
PHI-625X812	5/8	13/16	3/32		4-1/2	7	8	4.3
PHI-625X875	5/8	7/8	1/8		3-1/2	10	10.5	6.1
PHI-625X1000	5/8	1	3/16	#89	2-1/2	12	19	9.9
PHI-750X1000	3/4	1	1/8		3-1/4	9	12	7.1
PHI-750X1062	3/4	1-1/16	5/32		2-3/4	12	17	9.1
PHI-750X1125	3/4	1-1/8	3/16	#90 #191	2-1/2	11	12	11.4
PHI-750X1156	3/4	1-5/32	13/64		2-3/4	30	16	12.5
PHI-1.00X1250	1	1-1/4	1/8		4-1/4	55	10.5	9.1
PHI-1.00X1375	1	1-3/8	3/16	#92	5	75	13	14.4

CF = Consult Factory

Temperature

-30°F to 275°F

Features

- Non-toxic and non-hemolytic
- Extremely low permeability
- Resists acids, alkalis, oxidizing agents, and animal and vegetable oils
- Heat sealable, bondable, and formable
- Available: bulk, spools, molded, and crimped ends

Applications

- Peristaltic pumps
- Buffer solutions
- Solvents
- Metering pumps
- Biological media
- Filling machines
- Food and beverage processing

Quality Standards

- USP Class VI
- FDA CFR 177.2600
- REACH and RoHS compliant

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Pharm-A-Clear™ Silicone

Pharm-A-Clear™ platinum-cured silicone tubing is clean-room produced for critical pharmaceutical, biomedical, cosmetic, and food applications. Pharm-A-Clear™ has undergone extensive physical, chemical, and biological testing and meets USP Class VI, FDA CFR 177.2600, and 3-A Sanitary Standards. Pharm-A-Clear™ Silicone Tubing is manufactured in a state of the art clean room and is not intended for implantation, continuous steam applications, or elevated pressure levels.



Temperature

-100°F to 400°F

Features

- Extremely flexible
- Will not impart taste or odor
- Non-pyrogenic
- Lot and batch traceable
- Ultra pure medical grade
- Resists temperature extremes, chemical attack, ozone, radiation, and moisture
- Available: bulk, spools, and molded, reusable, and crimped end connections

Applications

- Bio process equipment
- USP water
- Hot WFI
- Sterile transfer
- Cell culture media
- Aseptic fill and transfer

Sterilization

- Ethylene Oxide (ETO)
- Gamma irradiation
- Autoclave

Certifications

- USP Class VI
- FDA CFR 177-2600
- Meets 3-A Sanitary Standards
- Cytotoxicity Criteria
- ADI Free®
- CGMP (Current Good Manufacturing Practices)

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Part Number	ID Inch	OD Inch	Wall Inch	Pump Size	Max WP @ 72°F psig	Weight Per 50 Foot Coil
PLTS-C-031X156	1/32	5/32	1/16	#13	30	0.5
PLTS-C-062X125	1/16	1/8	1/32		10	0.2
PLTS-C-062X187	1/16	3/16	1/16	#14	16	0.6
PLTS-C-062X250	1/16	1/4	3/32		24	1.1
PLTS-C-125X187	1/8	3/16	1/32		5	0.4
PLTS-C-125X250	1/8	1/4	1/16	#16	10	0.9
PLTS-C-125X312	1/8	5/16	3/32		13	1.6
PLTS-C-125X375	1/8	3/8	1/8		17	2.4
PLTS-C-187X250	3/16	1/4	1/32		5	0.5
PLTS-C-187X312	3/16	5/16	1/16	#03 #25	8	1.2
PLTS-C-187X375	3/16	3/8	3/32	#15	10	3.1
PLTS-C-187X437	3/16	7/16	1/8		13	2.1
PLTS-C-250X312	1/4	5/16	1/32		3	0.7
PLTS-C-250X375	1/4	3/8	1/16	#17	5	1.5
PLTS-C-250X437	1/4	7/16	3/32	#24	7	2.5
PLTS-C-250X500	1/4	1/2	1/8	#26	10	3.7
PLTS-C-312X375	5/16	3/8	1/32		3	0.8
PLTS-C-312X437	5/16	7/16	1/16	#18	5	1.8
PLTS-C-312X500	5/16	1/2	3/32		7	3.0
PLTS-C-375X437	3/8	7/16	1/32		3	1.0
PLTS-C-375X500	3/8	1/2	1/16	#96	4	2.1
PLTS-C-375X562	3/8	9/16	3/32	#73	5	3.4
PLTS-C-375X625	3/8	5/8	1/8	#81	7	4.9
PLTS-C-437X625	7/16	5/8	3/32		4	3.9
PLTS-C-437X687	7/16	11/16	1/8		6	5.5
PLTS-C-500X562	1/2	9/16	1/32		2	1.3
PLTS-C-500X625	1/2	5/8	1/16		3	2.8
PLTS-C-500X750	1/2	3/4	1/8	#82	8	6.1
PLTS-C-500X1000	1/2	1	1/4		12	14.7
PLTS-C-562X750	9/16	3/4	3/32		2	4.8
PLTS-C-625X875	5/8	7/8	1/8		5	7.3
PLTS-C-625X1000	5/8	1	3/16		9	11.9
PLTS-C-750X812	3/4	13/16	1/32		1	1.9
PLTS-C-750X1000	3/4	1	1/8		5	8.6
PLTS-C-750X1125	3/4	1 1/8	3/16	#90 #191	7	13.8
PLTS-C-875X1000	7/8	1	1/16		2	4.6
PLTS-C-1000X1125	1	1 1/8	1/16		1	5.2
PLTS-C-1000X1250	1	1 1/4	1/8		3	11.0
PLTS-C-1000X1375	1	1 3/8	3/16	#92	5	17.4
PLTS-C-1000X1500	1	1 1/2	1/4		6	24.5

Pharm-A-Clear™ LH—Low Hysteresis Silicone

Pharm-A-Clear™ LH platinum-cured silicone tubing is clean-room manufactured to meet the most stringent requirements for the life science industry. Pharm-A-Clear™ LH is specifically formulated to meet the demands of high precision dosing and long life tubing requirements, as well as, critical pharmaceutical, biomedical, cosmetic, and food applications. Pharm-A-Clear™ has undergone extensive physical, chemical, and biological testing and meets USP Class VI, FDA CFR 177.2600, and 3-A Sanitary Standards. Pharm-A-Clear™ Silicone Tubing is manufactured in a state of the art clean room and is not intended for implantation, continuous steam applications, or elevated pressure levels.



Temperature

-100°F to 400°F

Features

- Low hysteresis
- Extended service life
- Extremely flexible
- Will not impart taste or odor
- Non-pyrogenic
- Lot and batch traceable
- Ultra pure medical grade
- Resists temperature extremes, chemical attack, ozone, radiation, and moisture
- Available: bulk, spools, and molded, reusable, and crimped end connections

Applications

- Bio process equipment
- USP water
- Hot WFI
- Sterile transfer
- Cell culture media
- Aseptic fill and transfer

Sterilization

- Ethylene Oxide (ETO)
- Gamma irradiation
- Autoclave

Certifications

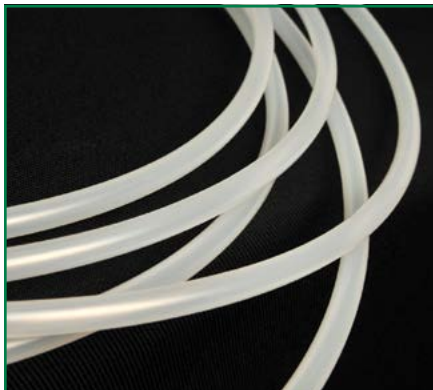
- USP Class VI
- FDA CFR 177-2600
- Meets 3-A Sanitary Standards
- Cytotoxicity Criteria
- ADI Free®
- CGMP (Current Good Manufacturing Practices)

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Part Number	ID Inch	OD Inch	Wall Inch	Pump Size	Max WP @ 72°F psig	Weight Per 50 Foot Coil
PLTS-LH-031X156	1/32	5/32	1/16	#13	27.6	0.4
PLTS-LH-063X125	1/16	1/8	1/32		9.2	0.2
PLTS-LH-063X187	1/16	3/16	1/16	#14	14.7	0.6
PLTS-LH-063X250	1/16	1/4	3/32		22.1	1.1
PLTS-LH-125X187	1/8	3/16	1/32		4.6	0.4
PLTS-LH-125X250	1/8	1/4	1/16	#16	9.2	0.9
PLTS-LH-125X312	1/8	5/16	3/32		12.0	1.5
PLTS-LH-125X375	1/8	3/8	1/8		15.6	2.4
PLTS-LH-187X250	3/16	1/4	1/32		4.6	0.5
PLTS-LH-187X312	3/16	5/16	1/16	#03 #25	7.4	1.2
PLTS-LH-187X375	3/16	3/8	3/32	#15	9.2	2.0
PLTS-LH-187X437	3/16	7/16	1/8		12.0	2.9
PLTS-LH-250X312	1/4	5/16	1/32		2.8	0.7
PLTS-LH-250X375	1/4	3/8	1/16	#17	4.6	1.5
PLTS-LH-250X437	1/4	7/16	3/32	#24	6.4	2.4
PLTS-LH-250X500	1/4	1/2	1/8	#26	9.2	3.5
PLTS-LH-312X375	5/16	3/8	1/32		2.8	0.8
PLTS-LH-312X437	5/16	7/16	1/16	#18	4.6	1.8
PLTS-LH-312X500	5/16	1/2	3/32		6.4	2.9
PLTS-LH-375X437	3/8	7/16	1/32		2.8	1.0
PLTS-LH-375X500	3/8	1/2	1/16	#96	3.7	2.1
PLTS-LH-375X562	3/8	9/16	3/32	#73	4.6	3.3
PLTS-LH-375X625	3/8	5/8	1/8	#81	6.4	4.7
PLTS-LH-437X625	7/16	5/8	3/32		3.7	3.8
PLTS-LH-437X687	7/16	11/16	1/8		5.5	5.3
PLTS-LH-500X562	1/2	9/16	1/32		1.8	1.2
PLTS-LH-500X625	1/2	5/8	1/16		2.8	2.7
PLTS-LH-500X750	1/2	3/4	1/8	#82	7.4	5.9
PLTS-LH-500X1000	1/2	1	1/4		11.0	14.2
PLTS-LH-562X750	9/16	3/4	3/32		1.8	4.7
PLTS-LH-625X875	5/8	7/8	1/8		4.6	7.1
PLTS-LH-625X1000	5/8	1.00	3/16		8.3	11.5
PLTS-LH-750X812	3/4	13/16	1/32		0.9	1.8
PLTS-LH-750X1000	3/4	1	1/8		4.6	8.3
PLTS-LH-750X1125	3/4	1-1/8	3/16	#90 #191	6.4	13.3
PLTS-LH-875X1000	7/8	1	1/16		1.8	4.4
PLTS-LH-1000X1125	1	1-1/8	1/16		0.9	5.0
PLTS-LH-1000X1250	1	1-1/4	1/8		2.8	10.6
PLTS-LH-1000X1375	1	1-3/8	3/16	#92	4.6	16.8
PLTS-LH-1000X1500	1	1-1/2	1/4		5.5	23.6

PVDF (Kynar®)

PVDF (Kynar-Flex®) is an abrasion resistant fluoropolymer acceptable for use in applications requiring chemical resistance with low permeability. PVDF has excellent chemical resistance, is UV, ozone, and abrasion resistant.



Temperature

-20°F to 212°F

Features

- Strength and toughness
- Weather resistant
- UV resistant
- Radiation resistant
- High thermal stability
- Fungus resistant
- Ozone resistant

Applications

- Food and beverage
- Bags
- Battery binders and separators
- Fabricated vessels
- Filters
- Multi-layered pipe
- Pumps
- Tanks
- Tubing
- Valves
- Vessels

Certification

- Meets USP Class VI Standards
- Kynar-Flex® is approved for use in food contact applications in compliance with FDA 21 CFR 177.2600
- NSF-51
- Resin meets or exceeds requirements listed in ASTM D 3222

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Kynar® and Kynar-Flex® is a registered trademark of Alkema

Standard Wall Tubing

Part Number	ID Inch	OD Inch	Wall Inch	Bend Radius Inch	Max WP @ 72°F psig	Vacuum Rating @ 72°F in. Hg.	Weight Per 50 Foot Coil
F-PVDF-125X187	1/8	3/16	1/32	3/4	168	29.9	0.59
F-PVDF-187X250	3/16	1/4	1/32	1	126	29.9	0.84
F-PVDF-250X312	1/4	5/16	1/32	1-3/4	101	29.9	1.06
F-PVDF-312X375	5/16	3/8	1/32	2-1/2	84	29.9	1.32

Custom Size Tubing

F-PVDF-170X250	.170	.250	.040	1	155	29.9	1.02
F-PVDF-156X250	5/32	1/4	.047	3/4	177	29.9	1.16

Heavy Wall Tubing

F-PVDF-125X250	1/8	1/4	1/16	1/2	260	29.9	1.43
F-PVDF-250X375	1/4	3/8	1/16	1	174	29.9	2.38
F-PVDF-375X500	3/8	1/2	1/16	2	130	29.9	3.33
F-PVDF-500X625	1/2	5/8	1/16	3	104	29.9	4.28
F-PVDF-625X750	5/8	3/4	1/16	5	87	29.9	5.24
F-PVDF-875X1000	7/8	1	1/16	22	65	29.9	7.14

Metric Size Tubing

F-PVDF-2MMX4MM	2mm	4mm	1mm	CF	CF	29.9	0.57
F-PVDF-4MMX6MM	4mm	6mm	1mm	CF	CF	29.9	0.94
F-PVDF-6MMX8MM	6mm	8mm	1mm	CF	CF	29.9	1.32
F-PVDF-8MMX10MM	8mm	10mm	1mm	CF	CF	29.9	1.70
F-PVDF-10MMX12MM	10mm	12mm	1mm	CF	CF	29.9	2.08

CF = Consult Factory



PTFE

PTFE tubing is the most flexible of all fluoropolymer tubing offered. PTFE tubing has the broadest temperature range of any fluoropolymer and can resist highly corrosive liquids and gases even at elevated temperatures. The smooth surface finish and lowest coefficient of friction & lubricity make the tubing, pipe, or rod ideal for bushing or bearing applications.



Temperature

-410°F to 500°F

Features

- 100% virgin grade PTFE resins
- Most flexible fluoropolymer tubing as compared with: FEP, PFA, HP PFA, UHP PFA, ETFE, ECTFE
- Chemically inert and resistant to nearly all industrial chemicals and solvents
- Low permeability
- Smooth non-stick surface finish
- Lowest coefficient of friction
- Excellent electrical properties
- Non-flammable
- Non-toxic
- FDA compliant
- PTFE tubing is suitable for use with conventional fittings

Applications

- Laboratory
- Chemical process
- Analytical and process equipment
- Emissions monitoring
- Cryogenic
- High temperature
- Electrical
- Ozone

Packaging

- Continuous coils or pre-cut lengths
- Clean room packaging
- Colors and tracer stripes available

Sterilization

- Ethylene Oxide (ETO)
- Autoclave

Certifications

- FDA 21 CFR 177.1550

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Standard Wall Tubing

Part Number	ID Inch	OD Inch	Wall Inch	Bend Radius Inch	Max WP @ 72°F psig
TBL-PTFE-062X125	1/16	1/8	1/32	1/2	300
TBL-PTFE-125X250	1/8	1/4	1/16	1/2	310
TBL-PTFE-125X187	1/8	3/16	1/32	3/4	200
TBL-PTFE-156X250	5/32	1/4	.040	1	200
TBL-PTFE-170X250	.170	.250	.040	1	200
TBL-PTFE-187X312	3/16	5/16	1/16	CF	CF
TBL-PTFE-187X250	3/16	1/4	.030	1	150
TBL-PTFE-250X312	1/4	5/16	.030	1-3/4	257
TBL-PTFE-250X375	1/4	3/8	1/16	3/4	207
TBL-PTFE-295X375	.295	.375	.040	CF	CF
TBL-PTFE-312X375	5/16	3/8	1/32	CF	CF
TBL-PTFE-375X500	3/8	1/2	1/16	2-1/2	155
TBL-PTFE-437X500	7/16	1/2	1/32	6	75

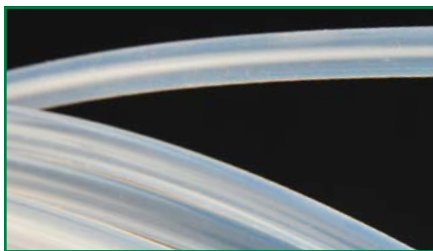
Metric Size Tubing

TBL-PTFE-2MMX4MM	2mm	4mm	1mm	CF	CF
TBL-PTFE-4MMX6MM	4mm	6mm	1mm	1	208
TBL-PTFE-6MMX8MM	6mm	8mm	1mm	1.5	156
TBL-PTFE-8MMX10MM	8mm	10mm	1mm	2	125
TBL-PTFE-10MMX12MM	10mm	12mm	1mm	4	104

CF = Consult Factory

PFA

PFA is the tubing of choice for applications involving extreme chemical resistance combined with high temperature exposure. PFA tubing is suitable for even the most demanding applications.



Temperature

-300°F to 500°F

Features

- 100% virgin grade high performance resins used to resist stress cracking
- Chemically inert to nearly all industrial chemicals and solvents
- Higher thermal stability than with FEP
- Lower permeability than with FEP
- Translucent
- Moisture absorption nearly zero
- FDA compliant for food contact
- Non-flammable
- Tubing is suitable for use with flare or conventional fittings
- Tubing is available in coiled hose and convoluted constructions
- Low permeation PFA tubing and pipe are also available

Applications

- Chemical process
- Heat exchangers
- Laboratory
- Semiconductor
- Flow monitoring
- Emissions monitoring
- Double containment systems
- Food processing
- Electrical insulation

Packaging

- Per customer's specifications
- Clean room packed
- Available pre-flared and pre-cut

Sterilization

- Available DI washed and nitrogen packed
- Ethylene Oxide (ETO)
- Autoclave

Certifications

- PFA is approved for use in food contact applications in compliance with FDA 21 CFR 177.1550
- PFA tubing meets or exceeds the requirements listed in ASTM D 6867-03

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Standard Wall Tubing

Part Number	ID Inch	OD Inch	Wall Inch	Bend Radius Inch	Max WP @ 72°F psig
TBL-PFA-062X125	1/16	1/8	1/32	1/2	449
TBL-PFA-093X156	3/32	5/32	1/32	1/2	360
TBL-PFA-125X187	1/8	3/16	1/32	3/4	299
TBL-PFA-187X250	3/16	1/4	1/32	1	225
TBL-PFA-250X312	1/4	5/16	1/32	1-3/4	179
TBL-PFA-312X375	5/16	3/8	1/32	2-1/2	150
TBL-PFA-375X437	3/8	7/16	1/32	3-1/2	128
TBL-PFA-437X500	7/16	1/2	1/32	4	112
TBL-PFA-500X562	1/2	9/16	1/32	CF	CF
TBL-PFA-562x625	9/16	5/8	1/32	6-1/2	90
TBL-PFA-625X687	5/8	11/16	1/32	CF	CF
TBL-PFA-687X750	11/16	3/4	1/32	8	75

Heavy Wall Tubing

TBL-PFA-062X187	1/16	3/16	1/16	1/2	617
TBL-PFA-125X250	1/8	1/4	1/16	1/2	454
TBL-PFA-187X312	3/16	5/16	1/16	1	371
TBL-PFA-250X375	1/4	3/8	1/16	1	310
TBL-PFA-312X437	5/16	7/16	1/16	2	265
TBL-PFA-375X500	3/8	1/2	1/16	2	232
TBL-PFA-500X625	1/2	5/8	1/16	3	186
TBL-PFA-625X750	5/8	3/4	1/16	6	155
TBL-PFA-750X875	3/4	7/8	1/16	12	133
TBL-PFA-875X100	7/8	1	1/16	22	116
TBL-PFA-100X1125	1	1-1/8	1/16	CF	105
TBL-PFA-1125X1250	1-1/8	1-1/4	1/16	CF	84
TBL-PFA-1250X1375	1-1/4	1-3/8	1/16	CF	CF

Special Size Tubing

TBL-PFA-170X250	.170	.250	.040	1	300
TBL-PFA-156X250	.156	.250	.047	3/4	352
TBL-PFA-250X350	.250	.350	.050	CF	CF
TBL-PFA-275X375	.275	.375	.050	CF	CF
TBL-PFA-750X830	.750	.830	.040	CF	CF
TBL-PFA-100X110	1	1.10	.050	CF	CF

Metric Size Tubing

TBL-PFA-1MMX3MM	1mm	3mm	1mm	CF	CF
TBL-PFA-2MMX4MM	2mm	4mm	1mm	1-1/2	468
TBL-PFA-3MMX5MM	3mm	5mm	1mm	CF	CF
TBL-PFA-4MMX6MM	4mm	6mm	1mm	1-3/4	312
TBL-PFA-5MMX7MM	5mm	7mm	1mm	CF	CF
TBL-PFA-6MMX8MM	6mm	8mm	1mm	2-1/2	234
TBL-PFA-6MMX9MM	6mm	9mm	1.5mm	CF	CF
TBL-PFA-7MMX9MM	7mm	9mm	1mm	CF	CF
TBL-PFA-8MMX10MM	8mm	10mm	1mm	2-3/4	187
TBL-PFA-9MMX11MM	9mm	11mm	1mm	CF	CF
TBL-PFA-10MMX12MM	10mm	12mm	1mm	4	156
TBL-PFA-11MMX13MM	11mm	13mm	1mm	CF	CF
TBL-PFA-12MMX14MM	12mm	14mm	1mm	CF	CF
TBL-PFA-14MMX16MM	14mm	16mm	1mm	CF	CF

CF = Consult Factory

FEP tubing is an economical choice for tubing applications requiring chemical resistance in combination with broad temperature exposure. FEP tubing and pipe offer excellent clarity which makes them ideal for sight glass and other flow monitoring applications. Additionally, the outstanding UV transmission rate of FEP makes the tubing a clear choice for UV water purification systems in straight lengths or coiled hose constructions.

Temperature

-100°F to 400°F

Features

- 100% virgin grade high performance resins used to resist stress cracking
- Chemically inert to most industrial chemicals and solvents
- High thermal stability
- Excellent UV transmission
- Low permeability
- Moisture absorption nearly zero
- FDA compliant for food contact
- Non-flammable
- Self extinguishing
- Superior electrical insulation properties
- FEP Tubing is also available in coiled hose, convoluted tubing, and heat-shrink constructions

Applications

- Chemical process
- Aquatic
- Laboratory
- UV water purification systems
- Ground water monitoring
- Ground remediation
- Food processing
- Electrical insulation
- Telecommunications
- Conduit
- Heat exchangers

Packaging

- Per customer's specifications
- Clean room packed
- Available pre-flared and pre-cut
- Sterilization
- Available DI washed and nitrogen packed

Sterilization

- Ethylene Oxide (ETO)
- Autoclave

Certifications

- FEP tubing & pipe meet the requirements of USP Class VI Standards
- FEP tubing and pipe are approved for use in food contact applications in compliance with FDA 21 CFR 177.1550
- FEP tubing meets or exceeds the requirements listed in ASTM D3296-03

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Standard Wall Tubing

Part Number	ID Inch	OD Inch	Wall Inch	Bend Radius Inch	Max WP @ 72°F psig
TBL-FEP-062X125	1/16	1/8	1/32	1/2	445
TBL-FEP-062X187	1/16	3/16	1/16	1/2	612
TBL-FEP-125X250	1/8	1/4	1/16	1/2	460
TBL-FEP-125X187	1/8	3/16	1/32	3/4	296
TBL-FEP-156X250	.156	.250	.047	3/4	349
TBL-FEP-170X250	.170	.250	.040	1	297
TBP-FEP-187X312	3/16	5/16	1/16	1	368
TBL-FEP-187X156	3/32	5/32	1/32	CF	CF
TBL-FEP-187X250	3/16	1/4	.030	1	223
TBL-FEP-250X312	1/4	5/16	.030	1-3/4	178
TBL-FEP-250X375	1/4	3/8	1/16	1	307
TBL-FEP-312X375	5/16	3/8	.030	2-1/2	148
TBL-FEP-375X437	3/8	7/16	.030	3-1/2	127
TBL-FEP-375X500	3/8	1/2	.062	2	230
TBL-FEP-437X500	7/16	1/2	.030	6	111
TBL-FEP-562X625	9/16	5/8	.030	6-1/2	89
TBL-FEP-500X625	1/2	5/8	.062	3	184
TBL-FEP-625X750	5/8	3/4	1/16	6	153
TBL-FEP-687X750	11/16	3/4	.030	8	74
TBL-FEP-750X875	3/4	7/8	.062	12	132
TBL-FEP-875X1000	7/8	1	.062	22	115
TBL-FEP-100X1125	1	1-1/8	.062	CF	75
TBL-FEP-1125X1250	1-1/8	1-1/4	1/16	CF	70

Metric Size Tubing

TBL-FEP-1MMX3MM	1mm	3mm	1mm	CF	CF
TBL-FEP-2MMX4MM	2mm	4mm	1mm	1-1/2	464
TBL-FEP-3MMX5MM	3mm	5mm	1mm	CF	CF
TBL-FEP-4MMX6MM	4mm	6mm	1mm	1-3/4	309
TBL-FEP-5MMX7MM	5mm	7mm	1mm	CF	CF
TBL-FEP-6MMX8MM	6mm	8mm	1mm	2-1/2	232
TBL-FEP-6MMX9MM	6mm	9mm	1.5mm	CF	CF
TBL-FEP-7MMX9MM	7mm	9mm	1mm	CF	CF
TBL-FEP-8MMX10MM	8mm	10mm	1mm	2-3/4	186
TBL-FEP-9MMX11MM	9mm	11mm	1mm	CF	CF
TBL-FEP-10MMX12MM	10mm	12mm	1mm	4	155
TBL-FEP-11MMX13MM	11mm	13mm	1mm	CF	CF
TBL-FEP-12MMX14MM	12mm	14mm	1mm	CF	CF

CF = Consult Factory

LDPE / LLDPE

Low-Density Polyethylene LDPE and Linear Low-Density Polyethylene LLDPE tubing are used in a broad array of applications including cable jacketing, chemical conveyance, pneumatic and air lines, beverage and food processing, and potable water systems.

LDPE or LLDPE?

Both have excellent flex life, but our LLDPE tubing is recommended whenever exceptional environmental stress cracking resistance ESCR is required and for applications where push-on fittings are used. Also, LLDPE has a slightly higher pressure rating than LDPE, but LDPE is slightly more flexible.

13 Colors in Stock

Color coding is commonly used to identify various chemical or air lines within a facility or process. However, most manufacturers offer less than 6 colors, limiting the user's choices. In our constant effort to differentiate ourselves from the competition, we offer thirteen colors.

Temperature

LDPE: -100°F to 175°F

LLDPE: -100°F to 185°F

Features

- Made from non-toxic ingredients conforming to FDA standards
- Will not impart taste or odor
- Flexible, lightweight, durable
- Translucent natural or opaque colors
- Made from 100% virgin grade raw materials
- Good dielectric properties
- Offers enhanced resistance to stress cracking
- Chemically inert; forms a good barrier to gases, vapors, and moisture

Applications

- Air, chemical, and fluid lines
- Food and beverage
- Hospital uses
- Instrumentation
- Laboratory uses
- OEM large machines
- Spacers
- Wire jacketing

Packaging

- Continuous coils
- Pre-cut lengths
- Crimped ends

Sterilization

- Ethylene Oxide (ETO)

Certifications

- FDA 21 CFR 177.1550
- Meets 3-A Sanitary Standards
- NSF 51 Compliant

For product information and technical data, visit Rubber Fab's affiliate company, TBL Plastics at www.tblplastics.com

Part Number	ID Inch	OD Inch	Wall Inch	Coil Length Foot	Max WP @ 72°F psig
LDPE-170X250 ** 500CS	.170	.250	.040	500	135
LDPE-170X250 ** 1000CS	.170	.250	.040	1000	135
LDPE-125X250 ** 100C	.125	.250	.062	100	180
LDPE-125X250 ** 500CS	.125	.250	.062	500	180
LDPE-125X250 ** 1000CS	.125	.250	.062	1000	180
LDPE-187X312 ** 100C	.187	.312	.062	100	140
LDPE-187X312 ** 250CS	.187	.312	.062	500	140
LDPE-187X312 ** 1000CS	.187	.312	.062	1000	140
LDPE-232X312 ** 100C	.232	.312	.040	100	90
LDPE-232X312 ** 500CS	.232	.312	.040	500	90
LDPE-232X312 ** 1000CS	.232	.312	.040	1000	90
LDPE-250X375 ** 100C	.250	.375	.062	100	120
LDPE-250X375 ** 500CS	.250	.375	.062	500	120
LDPE-250X375 ** 1000CS	.250	.375	.062	1000	120
LDPE-375X500 ** 100C	.375	.500	.062	100	90
LDPE-375X500 ** 500CS	.375	.500	.062	500	90
LDPE-375X500 ** 1000CS	.375	.500	.062	1000	90
LDPE-500X625 ** 50C	.500	.625	.062	50	70
LDPE-500X625 ** 100C	.500	.625	.062	100	70
LDPE-625X750 ** 50C	.625	.750	.062	50	60
LDPE-625X750 ** 100C	.625	.750	.062	100	60
LDPE-625X875 ** 100C	.625	.750	.125	100	60
LDPE-750X100 ** 50C	.750	1.00	.125	50	90
LDPE-750X100 ** 100C	.750	1.00	.125	100	90
LDPE-875X100 ** 50C	.875	1.00	.062	50	45
LDPE-875X100 ** 100C	.875	1.00	.062	100	45
LDPE-1000X1125 ** 50C	1.00	1.125	.062	50	72
LDPE-1000X1125 ** 100C	1.00	1.125	.062	100	72

For LLDPE part numbers, add an additional "L" to the LDPE part number.



To indicate color inside LDPE or LLDPE part number, replace ** with the following color specifications:

BL=Blue

BK=Black

YL=Yellow

WH=White

RD=Red

GR=Green

NN=Natural

PL=Purple

OR=Orange

PK=Pink

BR=Brown

GD=Gold

TK=Turquoise



TBL Plastics, a Rubber Fab Technologies Group Affiliate Company

Bulk Tubing and Tubing Assemblies are available in:

- *Molded Ends*
- *Crimped Ends*
- *Coils*
- *Spools*
- *Lengths*

Accessories



Silicone Fire Sleeve

Armor Casing

Polyolefin Heat Shrink Tubing

Spring Guard

Custom Fitting

Silicone Cover

Accessories

Rubber Fab offers the following accessories and hose enhancements to meet specific needs during certain operations. Other hose covers and accessories are available.

Armor Casing



Armor Casing is a highly flexible, heavy duty metal casing which protects the hose against rough handling and over bending. Armor can be applied over the entire length of the hose or as an armor cuff. Armor cuffs can be applied in 12"-18" lengths to each end of the hose to prevent kinking and hose stress.

Silicone Fire Sleeve



TEMPERATURE:

Continuous: -65°F to 500°F
Intermittent: -65°F to 2000°F

TESTED IN ACCORDANCE WITH:

UL-73, NFPA-250, ASTM-E84

Silicone Fire Sleeve has a coating of specially compounded silicone rubber bonded to a low-density high bulk fiberglass sleeve. This unique combination offers a temporary barrier to flame penetration and provides long term mechanical/environmental protection. Applications include steel manufacturing plants, foundries, glass factories, and welding/cutting shops.

Silicone Cover



A clear silicone cover provides protection during extreme environmental exposure. Provides ease of cleanability when over a braided stainless steel hose. Cover also serves as a "to the touch" thermal insulator.

Polyolefin Heat Shrink Tubing



TEMPERATURE: -65°F to 275°F

Polyolefin Heat Shrink Tubing provides easy cleaning of the outer hose surface and is extremely beneficial in applications where cleanliness is essential, such as food and pharmaceutical processes.

Polyolefin Heat Shrink Tubing also provides coloring for product line identification and is available in clear, brown, black, white, red, yellow, green, and blue.

Spring Guard



Spring Guard is used to prolong the life of hose lines exposed to rugged operating conditions, such as severe flexing. Spring Guard prevents kinking and protects against abrasion.

Stainless Steel Braid



304 Stainless Steel braided sleeving provides protection against temperature and abrasion. Available to go over 1/2"-4" hose.

Golden Bridge



The Golden Bridge is a heavy duty, safety yellow, hose support that easily bolts together over any hose or stainless steel piping system. A series of bridges elevate the hose or pipe off the floor keeping the hose clean, reducing wear and tear on the cover, and preventing damage to the sanitary end connections. See page 64 for more information.

Vibration Isolator



Rubber Fab's flexible silicone joints, installed between pumps (or other sources of vibration) and fixed sanitary pipelines, absorb vibration that can weaken or damage critical pipeline systems, and because they are flexible, slight misalignment of connections is not a problem. See rubberfab.com for more information.

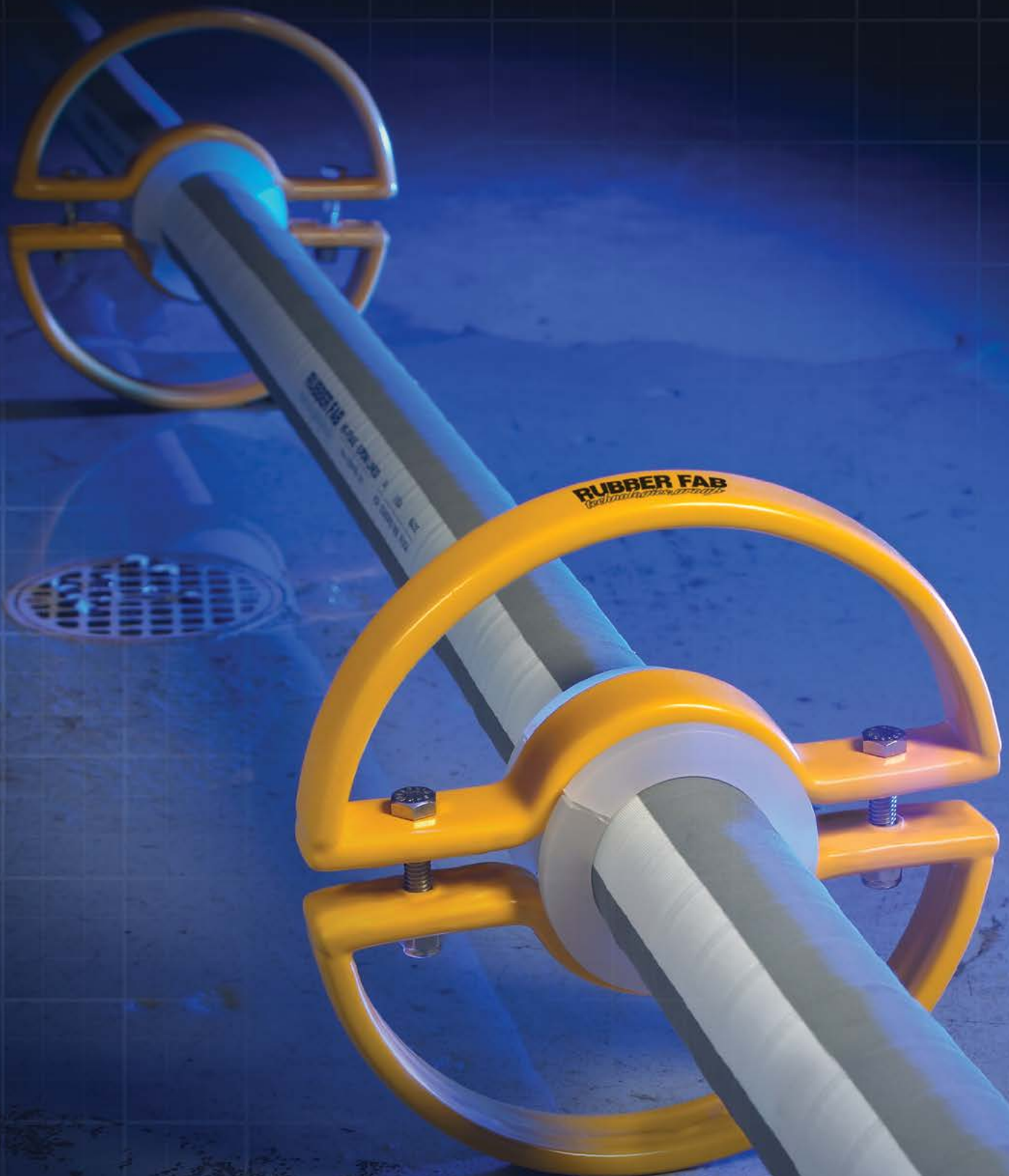
Heater Hose



Rugged and dependable electric heater hoses provide exact temperature control and can be used for a variety of products. A great hose for food and cosmetic applications or anywhere that a consistent application temperature is required.

Rubber Fab Technologies Group

Golden Bridge



Golden Bridge



Part Number	Hose Size Inch	Size Inch	Assembled Weight	Replacement Insert Part #
GOLDENBRIDGE-8-16	1.4 to 1.6 OD	8	3.50	GBI-16
GOLDENBRIDGE-8-24	2.0 to 2.2 OD	8	3.50	GBI-24
GOLDENBRIDGE-8-32	2.6 to 2.7 OD	8	3.50	GBI-32
GOLDENBRIDGE-10-40	3.1 to 3.3 OD	10	5.13	GBI-40
GOLDENBRIDGE-10-48	3.6 to 4.0 OD	10	5.13	GBI-48
GOLDENBRIDGE-10-64	4.7 to 5.0 OD	10	5.13	GBI-64

Note:

Please consult factory for additional sizes. Minimums may apply.

The Golden Bridge is a heavy duty, safety yellow, hose support that easily bolts together over any hose or stainless steel piping system. A series of bridges elevate the hose or pipe off the floor keeping it clean, reducing wear and tear on the cover, and preventing damage to the sanitary end connections. When it's time for wash down, the Golden Bridge prevents damming allowing CIP solutions and wash water to reach the floor drain, a benefit that helps prevent bacterial growth on the hose.

Features

- Safety yellow coated for high visibility
- Easy installation
- Supports and elevates hose and sanitary stainless steel piping systems
- Eliminates hose abrasion
- Open face design eliminates bacterial entrapment during wash down allowing wash fluids to reach floor drain
- Raised design lifts hose and stainless steel piping off floor stopping damming and preventing bacterial growth
- Impact resistant safety yellow coating protects nearby equipment and surface flooring
- Easy grip handle aides in hose and ss pipe movement, placement and handling
- Specifically designed for use with 1"-4" hose and stainless steel piping systems
- Protects stainless steel sanitary end connections
- Polypropylene insert is inert to CIP solutions and provides thermal insulation
- Fork lift accessible
- Meets A.I.B. standards



Rubber Fab Technologies Group

Fittings & Adapters



Fittings & Adapters

Rubber Fab offers a full line of sanitary hose fittings, adapters, non-metallic fittings, hose crimping collars, and sanitary fitting end caps. Fittings are available in 316L stainless steel, 304 stainless steel, electropolished, and in exotic materials such as Hastelloy C22, C276, and Alloy 20. DIN style fittings also available.

Tri-Clamp®

**ELECTROPOLISHING
AVAILABLE!**



*Tri-Clamp® x Barb for Rubber
(HBL Long Barb)*



Mini Tri-Clamp®



Reducing Tri-Clamp®



Reusable Tri-Clamp®



*Tri-Clamp® x Barb for Silicone
(HBS Short Barb)*



Maxi Tri-Clamp®



PTFE Lined Tri-Clamp®



90° Tri-Clamp® (45° also available)

Bevel Seat



Bevel Seat with Nut

Hose Splice



Barb x Barb

Sani-Lock®



*Tri-Clamp® Sani-Lock®
All Sani-Lock® fittings are shipped with
a complimentary Tuf-Flex® gasket*

NPT Fittings



Female Pipe Thread



Male Pipe Thread

Consult factory for other threaded fittings.

Compression Fittings



Compression Tube Adapter



Compression Tube Adapter with Ferrule and Nut



Compression Tube Connector



Compression Tube Connector with Ferrule and Nut

JIC Fittings



Female JIC



Male JIC



Male JIC Union Adapter x FPT



Male JIC Union Adapter x MPT

Camlock



Female Camlock



PTFE Lined Female Camlock



Male Camlock

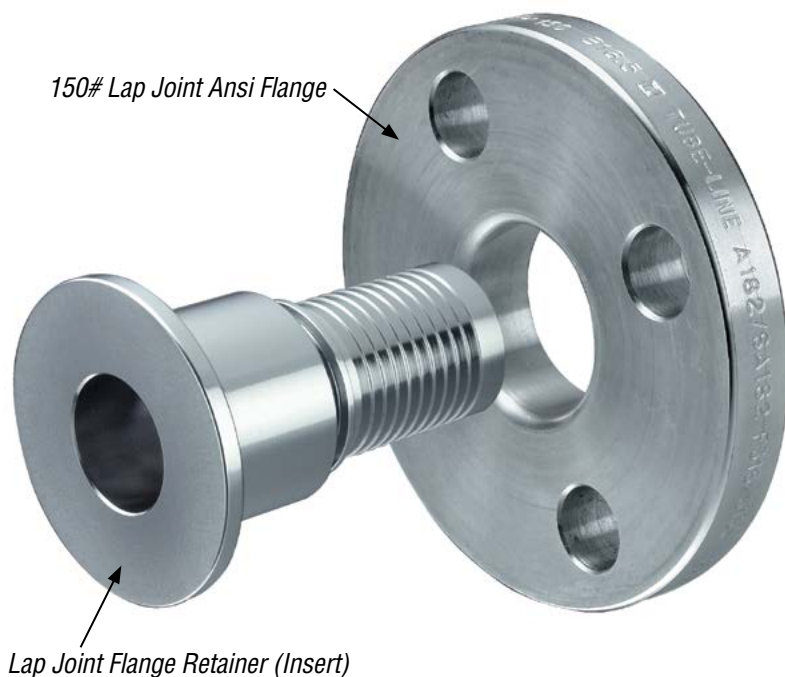
Flanges



Lap Joint Flange Retainer (Insert)



PTFE Encapsulated Lap Joint Flange Retainer (Insert)



150# Lap Joint Ansi Flange

Lap Joint Flange Retainer (Insert)

I-Line



Female I-Line



Male I-Line

Buttweld



Buttweld Tube

*Also Available: Buttweld Pipe
Consult factory for details.*

Crimp Collars



Adapters

**ELECTROPOLISHING
AVAILABLE!**



14MPHR – Hose Barb x TC Adapter



21MP – Male Pipe Thread x TC Adapter



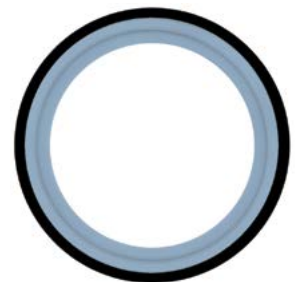
22MP – Female Pipe Thread x TC Adapter



Sani-Lock® Adapter

*Convert any connection into a
“quick-connection.” See page 73
for more information*

*All Sani-Lock® fittings are shipped with
a complimentary Tuf-Flex® gasket*





Tri-Clamp® x Hose Barb

Hose ID Inch	Part Number	Description	Fitting ID Inch	Flange Diameter Inch	Fitting Overall Length
1/4	04HB-08TC-SS	.25in Hose Barb x .5in Mini Tri-Clamp®, 316SS	0.19	0.99	1.31
1/4	04HB-12TC-SS	.25in Hose Barb x .75in Mini Tri-Clamp®, 316SS	0.19	0.99	1.31
1/4	04HB-16TC-SS	.25in Hose Barb x 1in Tri-Clamp®, 316SS	0.19	1.98	1.46
3/8	06HB-08TC-SS	.375in Hose Barb x .5in Mini Tri-Clamp®, 316SS	0.28	0.98	1.50
3/8	06HB-12TC-SS	.375in Hose Barb x .75in Mini Tri-Clamp®, 316SS	0.28	0.99	1.50
3/8	06HB-16TC-SS	.375in Hose Barb x 1in Tri-Clamp®, 316SS	0.28	1.98	1.84
1/2	08HB-08TC-SS	.5in Hose Barb x .5in Mini Tri-Clamp®, 316SS	0.37	0.98	1.81
1/2	08HB-12TC-SS	.5in Hose Barb x .75in Mini Tri-Clamp®, 316SS	0.37	0.98	1.81
1/2	08HB-16TC-SS	.5in Hose Barb x 1in Tri-Clamp®, 316SS	0.37	1.98	2.00
5/8	10HB-12TC-SS	.625in Hose Barb x .75in Mini Tri-Clamp®, 316SS	0.48	0.98	1.78
3/4	12HB-12TC-SS	.75in Hose Barb x .75in Mini Tri-Clamp®, 316SS	0.62	0.98	2.10
3/4	12HB-16TC-SS	.75in Hose Barb x 1in Tri-Clamp®, 316SS	0.62	1.98	2.09
1	16HB-16TC-SS	1in Hose Barb x 1in Tri-Clamp®, 316SS	0.87	1.98	2.29
1	16HB-24TC-SS	1in Hose Barb x 1.5in Tri-Clamp®, 316SS	0.87	1.98	2.29
1-1/2	24HBL-24TC-SS	1.5in Long Hose Barb x 1.5in Tri-Clamp®, 316SS	1.36	1.98	3.13
1-1/2	24HBL-32TC-SS	1.5in Long Hose Barb x 2in Tri-Clamp®, 316SS	1.37	2.52	8.13
1-1/2	24HBS-24TC-SS	1.5in Short Hose Barb x 1.5in Tri-Clamp®, 316SS	1.38	1.98	2.33
1-1/2	24HBS-32TC-SS	1.5in Short Hose Barb x 2in Tri-Clamp®, 316SS	1.37	2.52	2.00
2	32HBL-32TC-SS	2in Long Hose Barb x 2in Tri-Clamp®, 316SS	1.84	2.52	3.80
2	32HBS-32TC-SS	2in Short Hose Barb x 2in Tri-Clamp®, 316SS	1.84	2.52	2.39
2-1/2	40HBL-40TC-SS	2.5in Long Hose Barb x 2.5in Tri-Clamp®, 316SS	2.23	3.05	4.19
3	48HBL-48TC-SS	3in Long Hose Barb x 3in Tri-Clamp®, 316SS	2.75	3.58	4.34
3	48HBS-48TC-SS	3in Short Hose Barb x 3in Tri-Clamp®, 316SS	2.75	3.58	3.39
4	64HBL-64TC-SS	4in Long Hose Barb x 4in Tri-Clamp®, 316SS	3.75	4.68	5.00
4	64HBS-64TC-SS	4in Short Hose Barb x 4in Tri-Clamp®, 316SS	3.81	4.68	4.18
6	96HBL-96TC-SS	6in Long Hose Barb x 6in Tri-Clamp®, 316SS	5.75	6.57	6.00
6	96HBS-96TC-SS	6in Silicone Hose Barb x 6in Tri-Clamp®, 316SS	5.75	6.57	5.00

Also available:

304 Stainless Steel

DIN style fittings

Step up and step down fittings in all sizes.

Consult factory for more information.

Note:

Tri-Clamps® larger than 1in have hose barbs that are specially designed for a hose type.

HBL = Long Barb

Long Barbs are used for PTFE lined and FDA Rubber hoses.

HBS = Short Barb

Short Barbs are used for Silicone and PVC hoses.



DID YOU KNOW?

Rubber Fab fittings and adapters are also available in

304 Stainless Steel and DIN style fittings



Reusable Tri-Clamp® Fittings

Hose ID Inch	Part Number	Description	Fitting ID Inch	Flange Diameter Inches	Fitting Overall Length
1/4	04HB-08RTC-SS	.25in HB x .5in Mini TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.18	0.98	1.80
1/4	04HB-12RTC-SS	.25in HB x .75in Mini TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.18	0.98	1.80
3/8	06HB-08RTC-SS	.375in HB x .5in Mini TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.32	0.98	2.00
3/8	06HB-12RTC-SS	.375in HB x .75in Mini TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.32	0.98	2.00
1/2	08HB-08RTC-SS	.5in HB x .5in Mini TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.38	0.98	2.16
1/2	08HB-12RTC-SS	.5in HB x .75in Mini TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.38	0.98	2.16
5/8	10HB-12RTC-SS	.625in HB x .75in Mini TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.50	0.98	2.25
5/8	10HB-16RTC-SS	.625in HB x 1in Tri Clamp Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.50	1.98	2.25
3/4	12HB-12RTC-SS	.75in HB x .75in Mini TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.63	0.98	2.25
3/4	12HB-16RTC-SS	.75in HB x 1in TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.63	1.98	2.25
1	16HB-16RTC-SS	1in HB x 1in TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.87	1.98	2.50
1	16HB-24RTC-SS	1in HB x 1.5in TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	0.87	1.98	2.50
1.5	24HBS-24RTC-SS	1.5in Short HB x 1.5in TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	1.37	1.98	2.65
2	32HBS-32RTC-SS	2in Short HB x 2in TC Reusable Fitting w/Delrin Nut and Sleeve, 316SS	1.75	2.52	3.78

Also available:

Step up and step down fittings in all sizes.

HBS= Short Barb

Short Barbs are used for Silicone and PVC hoses.





Tri-Clamp® Elbow x Hose Barb

Hose ID Inch	Part Number	Description	Elbow ID Inch	Face to Centerline Dimension	Centerline to End of Barb
3/8	06HB-08TC90-SS	.375in Hose Barb x .5in Mini Tri-Clamp® 90 Degree Elbow, 316SS	0.37	1.63	4.96
1/2	08HB-08TC45-SS	.5in Hose Barb x .5in Mini Tri-Clamp® 45 Degree Elbow, 316SS	0.37	1.18	2.42
1/2	08HB-08TC90-SS	.5in Hose Barb x .5in Mini Tri-Clamp® 90 Degree Elbow, 316SS	0.37	1.26	2.50
1/2	08HB-12TC45-SS	.5in Hose Barb x .75in Mini Tri-Clamp® 45 Degree Elbow, 316SS	0.37	1.18	2.42
1/2	08HB-12TC90-SS	.5in Hose Barb x .75in Mini Tri-Clamp® 90 Degree Elbow, 316SS	0.37	1.25	2.50
3/4	12HB-12TC45-SS	.75in Hose Barb x .75in Mini Tri-Clamp® 45 Degree Elbow, 316SS	0.62	0.97	2.47
3/4	12HB-12TC90-SS	.75in Hose Barb x .75in Mini Tri-Clamp® 90 Degree Elbow, 316SS	0.62	1.63	3.13
3/4	12HB-16TC45-SS	.75in Hose Barb x 1in Tri-Clamp® 45 Degree Elbow, 316SS	0.62	0.97	2.47
3/4	12HB-16TC90-SS	.75in Hose Barb x 1in Tri-Clamp® 90 Degree Elbow, 316SS	0.62	1.63	3.13
1	16HB-16TC45-SS	1in Hose Barb x 1in Tri-Clamp® 45 Degree Elbow, 316SS	0.87	CF	CF
1	16HB-16TC90-SS	1in Hose Barb x 1in Tri-Clamp® 90 Degree Elbow, 316SS	0.87	2.01	3.80
1-1/2	24HBL-24TC45-SS	1.5in Long Hose Barb x 1.5in Tri-Clamp® 45 Degree Elbow, 316SS	1.37	1.44	4.06
1-1/2	24HBL-24TC90-SS	1.5in Long Hose Barb x 1.5in Tri-Clamp® 90 Degree Elbow, 316SS	1.37	2.75	5.36
1-1/2	24HBS-24TC45-SS	1.5in Short Hose Barb x 1.5in Tri-Clamp® 45 Degree Elbow, 316SS	1.37	3.80	4.25
1-1/2	24HBS-24TC90-SS	1.5in Short Hose Barb x 1.5in Tri-Clamp® 90 Degree Elbow, 316SS	1.37	2.75	4.54
2	32HBL-32TC45-SS	2in Long Hose Barb x 2in Tri-Clamp® 45 Degree Elbow, 316SS	1.87	4.06	5.81
2	32HBL-32TC90-SS	2in Long Hose Barb x 2in Tri-Clamp® 90 Degree Elbow, 316SS	1.87	3.50	6.50
2	32HBS-32TC45-SS	2in Short Hose Barb x 2in Tri-Clamp® 45 Degree Elbow, 316SS	1.87	1.75	3.64
2	32HBS-32TC90-SS	2in Short Hose Barb x 2in Tri-Clamp® 90 Degree Elbow, 316SS	1.87	3.50	5.39
3	48HBL-48TC90-SS	3in Long Hose Barb x 3in Tri-Clamp® 90 Degree Elbow, 316SS	2.87	5.00	8.84
3	48HBS-48TC90-SS	3in Short Hose Barb x 3in Tri-Clamp® 90 Degree Elbow, 316SS	2.87	5.00	7.89

Also available:

Step up and step down elbow fittings in all sizes.
Consult factory for more information.

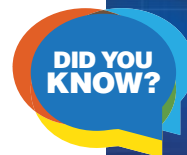
HBL= Long Barb

Long Barbs are used for PTFE lined and FDA Rubber hoses.

HBS= Short Barb

Short Barbs are used for Silicone and PVC hoses.

CF = Consult Factory



Rubber Fab fittings and
adapters are also available in
304 Stainless Steel
and DIN style fittings

Hose ID Inch	Part Number	Description	Fitting ID Inch	Flange Diameter Inch	Fitting Overall Length
1/2	08BWT-08SL-SS	.5in Butt weld x .5in Sani-Lock® Mini Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	0.36	1.23	1.73
1/2	08HB-08SL-SS	.5in Hose Barb x .5in Sani-Lock® Mini Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	0.30	1.23	2.98
3/4	12BWT-12SL-SS	.75in Butt weld x .75in Sani-Lock® Mini Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	0.63	1.23	1.73
3/4	12HB-12SL-SS	.75in Hose Barb x .75in Sani-Lock® Mini Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	0.62	1.23	3.23
1	16BWT-16SL-SS	1in Butt weld x 1in Sani-Lock® Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	0.87	2.43	2.65
1	16HB-16SL-SS	1in Hose Barb x 1in Sani-Lock® Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	0.87	2.43	3.40
1.5	24BWT-24SL-SS	1.5in Butt weld x 1.5in Sani-Lock® Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	1.37	2.43	2.65
1.5	24HB-24SL-SS	1.5in Hose Barb x 1.5in Sani-Lock® Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	1.36	2.43	5.24
2	32BWT-32SL-SS	2in Butt weld x 2in Sani-Lock® Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	1.87	2.96	3.15
2	32HB-32SL-SS	2in Hose Barb x 2in Sani-Lock® Tri-Clamp® w/Locking Ears, 316SS, w/Tuf-Flex® Gasket	1.75	2.96	5.89

Sani-Lock® Fitting/Adapter Configuration Options

Sanitary

- BSN – Bevel Seat Nut
- MBS – Male Bevel Seat
- FIL – Female I-Line
- MIL – Male I-Line
- JPF – John Perry Female
- JPM – John Perry Male
- QL – Q-Line
- RTC – Reusable Tri-Clamp®

Pipe Thread (NPT)

- FPT – Female Pipe Thread
- MPT – Male Pipe Thread

Compression

- CTA – Compression Tube Adapter
- CTAFN – Compression Tube Adapter Ferrule and Nut
- CTCFN – Compression Tube Connector Ferrule and Nut
- CTC – Compression Tube Connector

JIC

- FJIC – Female JIC
- MUA – Male Union Adapter
- FUA – Female Union Adapter

150# Flanges

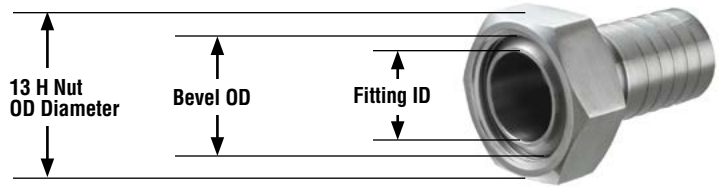
- LJF – LAP Joint Flange

Cam and Groove

- FCL – Female Camlock
- MCL – Male Camlock



Bevel Seat Fittings



Hose ID Inch	Part Number	Description	Fitting ID Inch	Bevel OD Inch	Fitting Overall Length	13H NUT Part Number	13H NUT Width	13H NUT OD Diameter
1	16HB-16BSI-SS	1in Hose Barb x Bevel Seat Insert, 316SS	0.87	1.32	2.57	16BSNUT-SS	0.91	1.81
1-1/2	24HBL-24BSI-SS	1.5in Long Hose Barb x Bevel Seat Insert, 316SS	1.37	1.85	3.13	24BSNUT-SS	0.97	2.41
2	32HBL-32BSI-SS	2in Long Hose Barb x Bevel Seat Insert, 316SS	1.87	2.38	3.80	32BSNUT-SS	1.06	3.00
2-1/2	40HBL-40BSI-SS	2.5in Long Hose Barb x Bevel Seat Insert, 316SS	2.37	2.91	4.05	40BSNUT-SS	1.19	3.59
3	48HBL-48BSI-SS	3in Long Hose Barb x Bevel Seat Insert, 316SS	2.87	3.44	4.75	48BSNUT-SS	1.26	4.19
4	64HBL-64BSI-SS	4in Long Hose Barb x Bevel Seat Insert, 316SS	3.83	4.51	6.01	64BSNUT-SS	1.50	5.44

Also requires 13H nut sold separately.



Female Pipe Thread (FPT)

Hose ID Inch	Part Number	Description	Fitting Inside Barb Diameter Inch	Fitting Inside FPT Diameter Inch	Fitting FPT Outside Diameter Inch	Fitting Overall Length
1/4	04HB-04FPT-SS	.25in Hose Barb x Female Pipe Thread, 316SS	0.19	0.43	0.75	1.63
3/8	06HB-06FPT-SS	.375in Hose Barb x Female Pipe Thread, 316SS	0.28	0.58	0.87	1.73
1/2	08HB-08FPT-SS	.5in Hose Barb x Female Pipe Thread, 316SS	0.39	0.71	1.06	2.25
3/4	12HB-12FPT-SS	.75in Hose Barb x Female Pipe Thread, 316SS	0.63	0.92	1.31	2.61
1	16HB-16FPT-SS	1in Hose Barb x Female Pipe Thread, 316SS	0.86	1.14	1.62	2.84
1-1/2	24HBL-24FPT-SS	1.5in Long Hose Barb x Female Pipe Thread, 316SS	1.36	1.69	3.03	3.17
2	32HBL-32FPT-SS	2in Long Hose Barb x Female Pipe Thread, 316SS	1.75	2.00	2.50	3.89



Male Pipe Thread (MPT)

Hose ID Inch	Part Number	Description	Fitting Inside Diameter Inch	Threaded Outside Diameter Inch	Fitting Overall Length
1/4	04HB-04MPT-SS	.25in Hose Barb x Male Pipe Thread, 316SS	0.19	0.54	1.63
3/8	06HB-06MPT-SS	.375in Hose Barb x Male Pipe Thread, 316SS	0.28	0.68	1.76
1/2	08HB-08MPT-SS	.5in Hose Barb x Male Pipe Thread, 316SS	0.39	0.85	2.34
3/4	12HB-12MPT-SS	.75in Hose Barb x Male Pipe Thread, 316SS	0.63	1.03	2.53
1	16HB-16MPT-SS	1in Hose Barb x Male Pipe Thread, 316SS	0.84	1.31	2.92
1-1/2	24HBL-24MPT-SS	1.5in Long Hose Barb x Male Pipe Thread, 316SS	1.63	1.89	4.17
2	32HBL-32MPT-SS	2in Long Hose Barb x Male Pipe Thread, 316SS	1.75	2.36	4.58



Compression Tube Adapter

Hose ID Inch	Part Number	Description	Fitting ID Inch	Flange OD Inch	Fitting Overall Length
1/4	04HB-04CTA-SS	.25in Hose Barb x CTA, 316SS	0.19	0.25	1.75
3/8	06HB-06CTA-SS	.375in Hose Barb x CTA, 316SS	0.28	0.38	2.07
1/2	08HB-08CTA-SS	.5in Hose Barb x CTA, 316SS	0.38	0.50	2.57
3/4	12HB-12CTA-SS	.75in Hose Barb x CTA, 316SS	0.62	0.75	2.86
1	16HB-16CTA-SS	1in Hose Barb x CTA, 316SS	0.86	1.00	3.33



Compression Tube Adapter w/Ferrule & Nut

Hose ID Inch	Part Number	Description	Fitting ID Inch	Flange OD Inch	Fitting Overall Length
1/4	04HB-04CTAFN-SS	.25in Hose Barb x CTA w/Ferrule & Nut, 316SS	0.19	0.25	1.75
3/8	06HB-06CTAFN-SS	.375in Hose Barb x CTA w/Ferrule & Nut, 316SS	0.28	0.38	2.07
1/2	08HB-08CTAFN-SS	.5in Hose Barb x CTA w/Ferrule & Nut, 316SS	0.38	0.50	2.57
3/4	12HB-12CTAFN-SS	.75in Hose Barb x CTA w/Ferrule & Nut, 316SS	0.62	0.75	2.86
1	16HB-16CTAFN-SS	1in Hose Barb x CTA w/Ferrule & Nut, 316SS	0.86	1.00	3.33



Compression Tube Connector

Hose ID Inch	Part Number	Description	Fitting Tube ID Inch	Fitting Barb ID Inch	Fitting Overall Length
1/4	04HB-04CTC-SS	.25in Hose Barb x CTC, 316SS	0.26	0.19	1.43
3/8	06HB-06CTC-SS	.375in Hose Barb x CTC, 316SS	0.38	0.28	1.71
1/2	08HB-08CTC-SS	.5in Hose Barb x CTC, 316SS	0.50	0.39	2.05
3/4	12HB-12CTC-SS	.75in Hose Barb x CTC, 316SS	0.75	0.65	2.50
1	16HB-16CTC-SS	1in Hose Barb x CTC, 316SS	1.00	0.87	2.61



Compression Tube Connector w/Ferrule & Nut

Hose ID Inch	Part Number	Description	Fitting Tube ID Inch	Fitting Barb ID Inch	Fitting Overall Length
1/4	04HB-04CTCFN-SS	.25in Hose Barb x CTC w/Ferrule & Nut, 316SS	0.26	0.19	1.43
3/8	06HB-06CTCFN-SS	.375in Hose Barb x CTC w/Ferrule & Nut, 316SS	0.38	0.28	1.71
1/2	08HB-08CTCFN-SS	.5in Hose Barb x CTC w/Ferrule & Nut, 316SS	0.50	0.39	2.05
3/4	12HB-12CTCFN-SS	.75in Hose Barb x CTC w/Ferrule & Nut, 316SS	0.75	0.65	2.81
1	16HB-16CTCFN-SS	1in Hose Barb x CTC w/Ferrule & Nut, 316SS	1.00	0.87	2.96



Lap Joint Flange Insert

Nominal Pipe Size Inch	Part Number	Description	ID Inch	Fitting Face Diameter Inch	Overall Length
1/2	08HB-08LJFR-SS	.5in Hose Barb x Lap Joint Flange Insert, 316SS	0.38	1.38	2.29
3/4	12HB-12LJFR-SS	.75in Hose Barb x Lap Joint Flange Insert, 316SS	0.63	1.68	2.38
1	16HB-16LJFR-SS	1in Hose Barb x Lap Joint Flange Insert, 316SS	0.84	2.00	3.15
1-1/2	24HBL-24LJFR-SS	1.5in Long Hose Barb x Lap Joint Flange Insert, 316SS	1.36	2.87	3.65
2	32HBL-32LJFR-SS	2in Long Hose Barb x Lap Joint Flange Insert, 316SS	1.75	3.63	4.15
2-1/2	40HBL-40LJFR-SS	2.5in Long Hose Barb x Lap Joint Flange Insert, 316SS	2.22	4.12	5.22
3	48HBL-48LJFR-SS	3in Long Hose Barb x Lap Joint Flange Insert, 316SS	2.87	4.98	5.39
4	64HBL-64LJFR-SS	4in Long Hose Barb x Lap Joint Flange Insert, 316SS	CF	CF	CF

CF = Consult Factory

Insert also available:

PTFE Encapsulated.

Consult factory for dimensions.



150# Ansi Flange

Nominal Pipe Size Inch	Part Number	Description	Outside Flange Diameter Inch	Flange Thickness Inch	Number of Holes	Diameter Bolts Inch	Bolt Circle Inch
1/2	08-150LJF-SS	.5in 150# Lap Joint Ansi Flange, 316SS	3-1/2	7/16	4	1/2	2-3/8
3/4	12-150LJF-SS	.75in 150# Lap Joint Ansi Flange, 316SS	3-7/8	1/2	4	1/2	2-3/4
1	16-150LJF-SS	1in 150# Lap Joint Ansi Flange, 316SS	4-1/4	9/16	4	1/2	3-1/8
1-1/2	24-150LJF-SS	1.5in 150# Lap Joint Ansi Flange, 316SS	5	11/16	4	1/2	3-7/8
2	32-150LJF-SS	2in 150# Lap Joint Ansi Flange, 316SS	6	3/4	4	5/8	4-3/4
2-1/2	40-150LJF-SS	2.5in 150# Lap Joint Ansi Flange, 316SS	7	7/8	4	5/8	5-1/2
3	48-150LJF-SS	3in 150# Lap Joint Ansi Flange, 316SS	7-1/2	15/16	4	5/8	6
4	64-150LJF-SS	4in 150# Lap Joint Ansi Flange, 316SS	9	15/16	8	5/8	7-1/2

Flange also available:

304 Stainless Steel

Carbon Steel

Polypropylene

Kynar®





Female JIC Fittings w/Nut

Hose ID Inch	Part Number	Description	Fitting Tube ID Inch	Barb ID Inch	Fitting Overall Length
1/4	04HB-04FJICI-SS	.25in Hose Barb x Female JIC w/Nut, 316SS	0.18	0.18	1.07
3/8	06HB-06FJICI-SS	.375in Hose Barb x Female JIC w/Nut, 316SS	0.28	0.28	1.38
1/2	08HB-08FJICI-SS	.5in Hose Barb x Female JIC w/Nut, 316SS	0.38	0.38	1.68
3/4	12HB-12FJICI-SS	.75in Hose Barb x Female JIC w/Nut, 316SS	0.64	0.64	1.98
1	16HB-16FJICI-SS	1in Hose Barb x Female JIC w/Nut, 316SS	0.86	0.86	2.14
1-1/2	24HB-24FJICI-SS	1.5in Hose Barb x Female JIC w/Nut, 316SS	1.27	1.27	2.78
2	32HB-32FJICI-SS	2in Hose Barb x Female JIC w/Nut, 316SS	1.75	1.75	3.61

Also available:

HBL and HBS style barb.



Male JIC Union Adapter x MPT

Hose ID Inch	Part Number	Description	Male 37° Flare	Male NPT Size	Fitting Overall Length
1/4	04MUA-04MPT-SS	.25in Male JIC Union Adapter x Male Pipe Thread, 316SS	1/4	1/4 - 18	1.42
3/8	06MUA-06MPT-SS	.375in Male JIC Union Adapter x Male Pipe Thread, 316SS	3/8	3/8 - 18	1.43
1/2	08MUA-08MPT-SS	.5in Male JIC Union Adapter x Male Pipe Thread, 316SS	1/2	1/2 - 14	1.79
3/4	12MUA-12MPT-SS	.75in Male JIC Union Adapter x Male Pipe Thread, 316SS	3/4	3/4 - 14	2.06
1	16MUA-16MPT-SS	1in Male JIC Union Adapter x Male Pipe Thread, 316SS	1	1 - 11-1/2	2.30
1-1/2	24MUA-24MPT-SS	1.5in Male JIC Union Adapter x Male Pipe Thread, 316SS	1-1/2	1-1/2 - 11-1/2	2.68
2	32MUA-32MPT-SS	2in Male JIC Union Adapter x Male Pipe Thread, 316SS	2	2 - 11-1/2	3.11

Also available:

Step up and step down in all sizes.
Consult factory for more information.

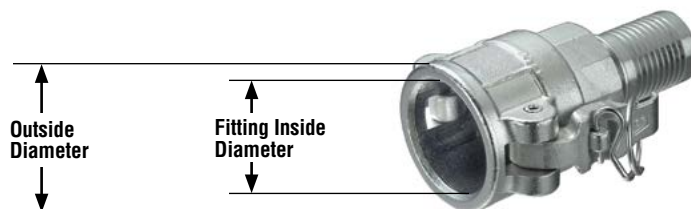


Male JIC Union Adapter x FPT

Hose ID Inch	Part Number	Description	Male 37° Flare	Female NPT Size	Fitting Overall Length
1/4	04MUA-04FPT-SS	.25in Male JIC Union Adapter x Female Pipe Thread, 316SS	1/4	1/4 - 18	1.39
3/8	06MUA-06FPT-SS	.375in Male JIC Union Adapter x Female Pipe Thread, 316SS	3/8	3/8 - 18	1.46
1/2	08MUA-08FPT-SS	.5in Male JIC Union Adapter x Female Pipe Thread, 316SS	1/2	1/2 - 14	1.79
3/4	12MUA-12FPT-SS	.75in Male JIC Union Adapter x Female Pipe Thread, 316SS	3/4	3/4 - 14	2.06
1	16MUA-16FPT-SS	1in Male JIC Union Adapter x Female Pipe Thread, 316SS	1	1 - 11-1/2	2.35
1-1/2	24MUA-24FPT-SS	1.5in Male JIC Union Adapter x Female Pipe Thread, 316SS	1-1/2	1-1/2 - 11-1/2	2.62
2	32MUA-32FPT-SS	2in Male JIC Union Adapter x Female Pipe Thread, 316SS	2	2 - 11-1/2	2.97

Also available:

Step up and step down in all sizes.
Consult factory for more information.



Female Camlock Fittings

Hose ID Inch	Part Number	Description	Fitting ID Inch	Flange OD Inch	Fitting Overall Length
1/2	08HB-08FCL-SS	.5in Hose Barb x .5in Female Camlock, Locking, 316SS	1.50	0.39	3.28
3/4	12HB-12FCL-SS	.75in Hose Barb x .75in Female Camlock, Locking, Swivel, 316SS	2.12	0.63	2.52
1	16HB-16FCL-SS	1in Hose Barb x 1in Female Camlock, Locking, Swivel, 316SS	2.38	0.85	4.07
1-1/2	24HBL-24FCL-SS	1.5in Long Hose Barb x 1.5in Female Camlock, Locking, Swivel, 316SS	3.44	1.37	4.96
2	32HBL-32FCL-SS	2in Long Hose Barb x 2in Female Camlock, Locking, Swivel, 316SS	3.88	1.75	5.90
2-1/2	40HBL-40FC-SS	2.5in Long Hose Barb x 2.5in Female Camlock, Non-Locking, 316SS	4.38	2.20	CF
3	48HBL-48FCL-316	3in Long Hose Barb x 3in Female Camlock, Locking, Swivel, 316SS	5.31	2.76	7.15
4	64HBL-64FCL-316-NS	4in Long Hose Barb x 4in Female Camlock, Locking, Non Swivel, 316SS	CF	CF	CF



CF = Consult Factory

Also available:
HBS style barb.

Reusable Camlock Screens, Perforated Plates, Sock Screens and Orifice Plates are available in 1"-4".



Male Camlock Fitting

Hose ID Inch	Part Number	Description	Fitting ID Inch	Flange OD Inch	Fitting Overall Length
1/2	08HB-08MCL-SS	.5in Hose Barb x Male Camlock, 316SS	0.56	0.95	2.62
3/4	12HB-12MCL-SS	.75in Hose Barb x Male Camlock, 316SS	0.63	1.26	2.46
1	16HB-16MCL-SS	1in Hose Barb x Male Camlock, 316SS	0.86	1.44	2.98
1-1/2	24HBL-24MCL-SS	1.5in Long Hose Barb x Male Camlock, 316SS	1.37	2.09	4.00
2	32HBL-32MCL-SS	2in Long Hose Barb x Male Camlock, 316SS	1.75	2.48	4.95
2-1/2	40HBL-40MCL-SS	2.5in Long Hose Barb x Male Camlock, 316SS	CF	CF	CF
3	48HBL-48MCL-SS	3in Long Hose Barb x Male Camlock, 316SS	2.90	3.60	7.10
4	64HBL-64MCL-SS	4in Long Hose Barb x Male Camlock, 316SS	3.78	4.71	7.46

CF = Consult Factory

Also available:
HBS style barb.



Female I-Line

Hose ID Inch	Part Number	Description	Fitting ID Inch	Flange OD Inch	Fitting Overall Length
1	16HB-16FMIL-SS	1in Hose Barb x Female I-Line, 316SS	0.87	1.99	3.08
1-1/2	24HBL-24FMIL-SS	1.5in Long Hose Barb x Female I-Line, 316SS	1.38	1.99	4.07
2	32HBL-32FMIL-SS	2in Long Hose Barb x Female I-Line, 316SS	1.84	2.64	4.54
2-1/2	40HBL-40FMIL-SS	2.5in Long Hose Barb x Female I-Line, 316SS	2.23	3.31	5.35
3	48HBL-48FMIL-SS	3in Long Hose Barb x Female I-Line, 316SS	2.75	3.87	5.56
4	64HBL-64FMIL-SS	4in Long Hose Barb x Female I-Line, 316SS	3.75	4.87	6.35

Consult factory for short barb style.



Male I-Line

Hose ID Inch	Part Number	Description	Fitting ID Inch	Flange OD Inch	Fitting Overall Length
1	16HB-16MIL-SS	1in Hose Barb x Male I-Line, 316SS	0.87	1.99	3.08
1-1/2	24HBL-24MIL-SS	1.5in Long Hose Barb x Male I-Line, 316SS	1.38	1.99	4.07
2	32HBL-32MIL-SS	2in Long Hose Barb x Male I-Line, 316SS	1.84	2.64	4.54
2-1/2	40HBL-40MIL-SS	2.5in Long Hose Barb x Male I-Line, 316SS	2.23	3.31	5.35
3	48HBL-48MIL-SS	3in Long Hose Barb x Male I-Line, 316SS	2.75	3.87	5.56
4	64HBL-64MIL-SS	4in Long Hose Barb x Male I-Line, 316SS	3.75	4.87	6.35

Consult factory for short barb style.

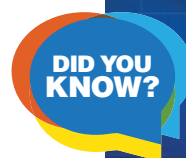


Q-Line

Q-Line fittings also available, consult factory for sizing and availability.

John Perry

John Perry fittings also available, consult factory for sizing and availability.



Rubber Fab fittings and adapters are also available in
304 Stainless Steel.

CONSULT FACTORY FOR DETAILS.

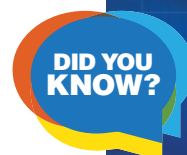


Buttweld Tube

Hose ID Inch	Part Number	Description	Fitting Tube ID Inch	Barb ID Inch	Fitting Overall Length
1/4	04HB-04BWT-SS	.25in Hose Barb x .25in Buttweld Tube, 316SS	0.15	0.16	1.13
3/8	06HB-06BWT-SS	.375in Hose Barb x .375in Buttweld Tube, 316SS	0.28	0.28	1.38
1/2	08HB-08BWT-SS	.5in Hose Barb x .5in Buttweld Tube, 316SS	0.37	0.37	1.75
3/4	12HB-12BWT-SS	.75in Hose Barb x .75in Buttweld Tube, 316SS	0.62	0.62	2.00
1	16HB-16BWT-SS	1in Hose Barb x 1in Buttweld Tube, 316SS	0.87	0.87	2.29
1-1/2	24HBL-24BWT-SS	1.5in Long Hose Barb x 1.5in Buttweld Tube, 316SS	1.37	1.37	3.13
1-1/2	24HBS-24BWT-SS	1.5in Short Hose Barb x 1.5in Buttweld Tube, 316SS	1.37	1.37	2.29
2	32HBL-32BWT-SS	2in Long Hose Barb x 2in Buttweld Tube, 316SS	1.84	1.84	3.50
2	32HBS-32BWT-SS	2in Short Hose Barb x 2in Buttweld Tube, 316SS	1.84	1.84	2.39
2-1/2	40HBL-40BWT-SS	2.5in Long Hose Barb x 2.5in Buttweld Tube, 316SS	2.36	2.23	4.19
2-1/2	40HBS-40BWT-SS	2.5in Short Hose Barb x 2.5in Buttweld Tube, 316SS	2.25	2.25	2.88
3	48HBL-48BWT-SS	3in Long Hose Barb x 3in Buttweld Tube, 316SS	2.87	2.67	4.66
3	48HBS-48BWT-SS	3in Short Hose Barb x 3in Buttweld Tube, 316SS	2.87	2.75	3.39
4	64HBL-64BWT-SS	4in Long Hose Barb x 4in Buttweld Tube, 316SS	3.83	3.75	5.00
4	64HBS-64BWT-SS	4in Short Hose Barb x 4in Buttweld Tube, 316SS	3.83	3.81	3.68
6	96HBL-96BWT-SS	6in Long Hose Barb x 6in Buttweld Tube, 316SS	5.75	5.75	6.00
6	96HBS-96BWT-SS	6in Short Hose Barb X 6in Buttweld Tube, 316SS	5.75	5.75	5.00

Also available:

Buttweld pipe, consult factory for sizing and availability.



Rubber Fab fittings and
adapters are also available in
304 Stainless Steel.

CONSULT FACTORY FOR DETAILS.

14MPHR- 316 Stainless Steel Tri-Clamp® Adapters

Part Number	Part Description
14MPHR-02HB-08TC-SS	14MPHR .125in Hose Barb x .5in Tri-Clamp®, 316SS
14MPHR-02HB-12TC-SS	14MPHR .125in Hose Barb x .75in Tri-Clamp®, 316SS
14MPHR-02HB-16TC-SS	14MPHR .125in Hose Barb x 1in Tri-Clamp®, 316SS
14MPHR-02HB-24TC-SS	14MPHR .125in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-03HB-08TC-SS	14MPHR .187in Hose Barb x .5in Tri-Clamp®, 316SS
14MPHR-03HB-12TC-SS	14MPHR .187in Hose Barb x .75in Tri-Clamp®, 316SS
14MPHR-03HB-24TC-SS	14MPHR .187in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-04HB-08TC-SS	14MPHR .25in Hose Barb x .5in Tri-Clamp®, 316SS
14MPHR-04HB-12TC-SS	14MPHR .25in Hose Barb x .75in Tri-Clamp®, 316SS
14MPHR-04HB-16TC-SS	14MPHR .25in Hose Barb x 1in Tri-Clamp®, 316SS
14MPHR-04HB-24TC-SS	14MPHR .25in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-05HB-08TC-SS	14MPHR .312in Hose Barb x .5in Tri-Clamp®, 316SS
14MPHR-06HB-08TC-SS	14MPHR .375in Hose Barb x .5in Tri-Clamp®, 316SS
14MPHR-06HB-12TC-SS	14MPHR .375in Hose Barb x .75in Tri-Clamp®, 316SS
14MPHR-06HB-16TC-SS	14MPHR .375in Hose Barb x 1in Tri-Clamp®, 316SS
14MPHR-06HB-24TC-SS	14MPHR .375in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-06HB-32TC-SS	14MPHR .375in Hose Barb x 2in Tri-Clamp®, 316SS
14MPHR-06HB-48TC-SS	14MPHR .375in Hose Barb x 3in Tri-Clamp®, 316SS
14MPHR-08HB-08TC-SS	14MPHR .5in Hose Barb x .5in Tri-Clamp®, 316SS
14MPHR-08HB-12TC-SS	14MPHR .5in Hose Barb x .75in Tri-Clamp®, 316SS
14MPHR-08HB-16TC-SS	14MPHR .5in Hose Barb x 1in Tri-Clamp®, 316SS
14MPHR-08HB-24TC-SS	14MPHR .5in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-08HB-32TC-SS	14MPHR .5in Hose Barb x 2in Tri-Clamp®, 316SS
14MPHR-10HB-08TC-SS	14MPHR .625in Hose Barb x .5in Tri-Clamp®, 316SS
14MPHR-10HB-12TC-SS	14MPHR .625in Hose Barb x .75in Tri-Clamp®, 316SS
14MPHR-10HB-16TC-SS	14MPHR .625in Hose Barb x 1in Tri-Clamp®, 316SS
14MPHR-10HB-24TC-SS	14MPHR .625in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-12HB-12TC-SS	14MPHR .75in Hose Barb x .75in Tri-Clamp®, 316SS
14MPHR-12HB-16TC-SS	14MPHR .75in Hose Barb x 1in Tri-Clamp®, 316SS
14MPHR-12HB-24TC-SS	14MPHR .75in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-12HB-32TC-SS	14MPHR .75in Hose Barb x 2in Tri-Clamp®, 316SS
14MPHR-14HB-24TC-SS	14MPHR .875in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-16HB-16TC-SS	14MPHR 1in Hose Barb x 1in Tri-Clamp®, 316SS
14MPHR-16HB-24TC-SS	14MPHR 1in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-16HB-32TC-SS	14MPHR 1in Hose Barb x 2in Tri-Clamp®, 316SS
14MPHR-20HB-24TC-SS	14MPHR 1.25in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-24HB-24TC-SS	14MPHR 1.5in Hose Barb x 1.5in Tri-Clamp®, 316SS
14MPHR-24HB-32TC-SS	14MPHR 1.5in Hose Barb x 2in Tri-Clamp®, 316SS
14MPHR-32HB-32TC-SS	14MPHR 2in Hose Barb x 2in Tri-Clamp®, 316SS
14MPHR-32HB-40TC-SS	14MPHR 2in Hose Barb x 2.5in Tri-Clamp®, 316SS
14MPHR-40HB-40TC-SS	14MPHR 2.5in Hose Barb x 2.5in Tri-Clamp®, 316SS
14MPHR-48HB-48TC-SS	14MPHR 3in Hose Barb x 3in Tri-Clamp®, 316SS



Also available:
 Step up and step down adapters
 in all sizes and in these materials:
 304 Stainless Steel
 Polypropylene
 Kynar®
 Hastelloy
 Exotic Metals
 Electropolished Finish



21MP Adapters (Tri-Clamp® x Male Pipe Thread)

Part Number	Part Description
21MP-08TC-04MPT-SS	.5in Mini Tri-Clamp® x .25in Male Pipe Thread Adapter, 316SS
21MP-08TC-06MPT-SS	.5in Mini Tri-Clamp® x .375in Male Pipe Thread Adapter, 316SS
21MP-08TC-08MPT-SS	.5in Mini Tri-Clamp® x .5in Male Pipe Thread Adapter, 316SS
21MP-08TC-12MPT-SS	.5in Mini Tri-Clamp® x .75in Male Pipe Thread Adapter, 316SS
21MP-12TC-02MPT-SS	.75in Mini Tri-Clamp® x .125in Male Pipe Thread Adapter, 316SS
21MP-12TC-04MPT-SS	.75in Mini Tri-Clamp® x .25in Male Pipe Thread Adapter, 316SS
21MP-12TC-06MPT-SS	.75in Mini Tri-Clamp® x .375in Male Pipe Thread Adapter, 316SS
21MP-12TC-08MPT-SS	.75in Mini Tri-Clamp® x .5in Male Pipe Thread Adapter, 316SS
21MP-12TC-12MPT-SS	.75in Mini Tri-Clamp® x .75in Male Pipe Thread Adapter, 316SS
21MP-12TC-16MPT-SS	.75in Mini Tri-Clamp® x 1in Male Pipe Thread Adapter, 316SS
21MP-16TC-04MPT-SS	1in Tri-Clamp® x .25in Male Pipe Thread Adapter, 316SS
21MP-16TC-06MPT-SS	1in Tri-Clamp® x .375in Male Pipe Thread Adapter, 316SS
21MP-16TC-08MPT-SS	1in Tri-Clamp® x .5in Male Pipe Thread Adapter, 316SS
21MP-16TC-12MPT-SS	1in Tri-Clamp® x .75in Male Pipe Thread Adapter, 316SS
21MP-16TC-16MPT-SS	1in Tri-Clamp® x 1in Male Pipe Thread Adapter, 316SS
21MP-16TC-20MPT-SS	1in Tri-Clamp® x 1.25in Male Pipe Thread Adapter, 316SS
21MP-16TC-24MPT-SS	1in Tri-Clamp® x 1.5in Male Pipe Thread Adapter, 316SS
21MP-16TC-32MPT-SS	1in Tri-Clamp® x 2in Male Pipe Thread Adapter, 316SS
21MP-24TC-04MPT-SS	1.5in Tri-Clamp® x .25in Male Pipe Thread Adapter, 316SS
21MP-24TC-08MPT-SS	1.5in Tri-Clamp® x .5in Male Pipe Thread Adapter, 316SS
21MP-24TC-12MPT-SS	1.5in Tri-Clamp® x .75in Male Pipe Thread Adapter, 316SS
21MP-24TC-16MPT-SS	1.5in Tri-Clamp® x 1in Male Pipe Thread Adapter, 316SS
21MP-24TC-20MPT-SS	1.5in Tri-Clamp® x 1.25in Male Pipe Thread Adapter, 316SS
21MP-24TC-24MPT-SS	1.5in Tri-Clamp® x 1.5in Male Pipe Thread Adapter, 316SS
21MP-24TC-32MPT-SS	1.5in Tri-Clamp® x 2in Male Pipe Thread Adapter, 316SS
21MP-32TC-04MPT-SS	2in Tri-Clamp® x .25in Male Pipe Thread Adapter, 316SS
21MP-32TC-08MPT-SS	2in Tri-Clamp® x .5in Male Pipe Thread Adapter, 316SS
21MP-32TC-12MPT-SS	2in Tri-Clamp® x .75in Male Pipe Thread Adapter, 316SS
21MP-32TC-20MPT-SS	2in Tri-Clamp® x 1.25in Male Pipe Thread Adapter, 316SS
21MP-32TC-24MPT-SS	2in Tri-Clamp® x 1.5in Male Pipe Thread Adapter, 316SS
21MP-32TC-32MPT-SS	2in Tri-Clamp® x 2in Male Pipe Thread Adapter, 316SS
21MP-40TC-32MPT-SS	2.5in Tri-Clamp® x 2in Male Pipe Thread Adapter, 316SS
21MP-48TC-32MPT-SS	3in Tri-Clamp® x 2in Male Pipe Thread Adapter, 316SS



Also available:

Step up and step down adapters
in all sizes and in these materials:

304 Stainless Steel

Polypropylene

Kynar®

Hastelloy

Exotic Metals

Electropolished Finish



22MP Adapters (Tri-Clamp® x Female Pipe Thread)

Part Number	Part Description
22MP-08TC-02FPT-SS	.5in Mini Tri-Clamp® x .125in Female Pipe Thread Adapter, 316SS
22MP-08TC-04FPT-SS	.5in Mini Tri-Clamp® x .25in Female Pipe Thread Adapter, 316SS
22MP-08TC-06FPT-SS	.5in Mini Tri-Clamp® x .375in Female Pipe Thread Adapter, 316SS
22MP-08TC-08FPT-SS	.5in Mini Tri-Clamp® x .5in Female Pipe Thread Adapter, 316SS
22MP-08TC-12FPT-SS	.5in Mini Tri-Clamp® x .75in Female Pipe Thread Adapter, 316SS
22MP-08TC-16FPT-SS	.5in Mini Tri-Clamp® x 1in Female Pipe Thread Adapter, 316SS
22MP-12TC-02FPT-SS	.75in Mini Tri-Clamp® x .125in Female Pipe Thread Adapter, 316SS
22MP-12TC-04FPT-SS	.75in Mini Tri-Clamp® x .25in Female Pipe Thread Adapter, 316SS
22MP-12TC-06FPT-SS	.75in Mini Tri-Clamp® x .375in Female Pipe Thread Adapter, 316SS
22MP-12TC-08FPT-SS	.75in Mini Tri-Clamp® x .5in Female Pipe Thread Adapter, 316SS
22MP-12TC-12FPT-SS	.75in Mini Tri-Clamp® x .75in Female Pipe Thread Adapter, 316SS
22MP-12TC-16FPT-SS	.75in Mini Tri-Clamp® x 1in Female Pipe Thread Adapter, 316SS
22MP-16TC-04FPT-SS	1in Tri-Clamp® x .25in Female Pipe Thread Adapter, 316SS
22MP-16TC-06FPT-SS	1in Tri-Clamp® x .375in Female Pipe Thread Adapter, 316SS
22MP-16TC-08FPT-SS	1in Tri-Clamp® x .5in Female Pipe Thread Adapter, 316SS
22MP-16TC-12FPT-SS	1in Tri-Clamp® x .75in Female Pipe Thread Adapter, 316SS
22MP-16TC-16FPT-SS	1in Tri-Clamp® x 1in Female Pipe Thread Adapter, 316SS
22MP-16TC-32FPT-SS	1in Tri-Clamp® x 2in Female Pipe Thread Adapter, 316SS
22MP-24TC-04FPT-SS	1.5in Tri-Clamp® x .25in Female Pipe Thread Adapter, 316SS
22MP-24TC-08FPT-SS	1.5in Tri-Clamp® x .5in Female Pipe Thread Adapter, 316SS
22MP-24TC-12FPT-SS	1.5in Tri-Clamp® x .75in Female Pipe Thread Adapter, 316SS
22MP-24TC-16FPT-SS	1.5in Tri-Clamp® x 1in Female Pipe Thread Adapter, 316SS
22MP-24TC-24FPT-SS	1.5in Tri-Clamp® x 1.5in Female Pipe Thread Adapter, 316SS
22MP-24TC-32FPT-SS	1.5in Tri-Clamp® x 2in Female Pipe Thread Adapter, 316SS
22MP-24TC-40FPT-SS	1.5in Tri-Clamp® x 2.5in Female Pipe Thread Adapter, 316SS
22MP-32TC-08FPT-SS	2in Tri-Clamp® x .5in Female Pipe Thread Adapter, 316SS
22MP-32TC-12FPT-SS	2in Tri-Clamp® x .75in Female Pipe Thread Adapter, 316S
22MP-32TC-16FPT-SS	2in Tri-Clamp® x 1in Female Pipe Thread Adapter, 316SS
22MP-32TC-24FPT-SS	2in Tri-Clamp® x 1.5in Female Pipe Thread Adapter, 316SS
22MP-32TC-32FPT-SS	2in Tri-Clamp® x 2in Female Pipe Thread Adapter, 316SS
22MP-40TC-40FPT-SS	2.5in Tri-Clamp® x 2.5in Female Pipe Thread Adapter, 316SS
22MP-48TC-48FPT-SS	3in Tri-Clamp® x 3in Female Pipe Thread Adapter, 316SS

Also available:

Step up and step down adapters
in all sizes and in these materials:

304 Stainless Steel

Polypropylene

Kynar®

Hastelloy

Exotic Metals

Electropolished Finish



DID YOU KNOW?

Rubber Fab fittings and adapters are also available in
304 Stainless Steel.
CONSULT FACTORY FOR DETAILS.

Rubber Fab Technologies Group

Non-Metallic Fittings & Adapters

Rubber Fab offers a full line of non-metallic sanitary hose fittings, adapters, clamps, and sanitary fitting end caps.



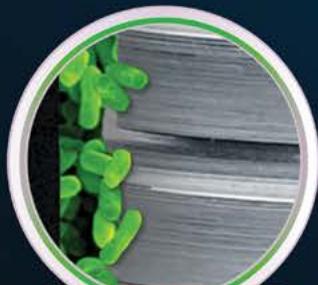


NEW! **ANTI-MICROBIAL SURFACE TREATMENT**

UNTREATED SURFACE **TREATED SURFACE**



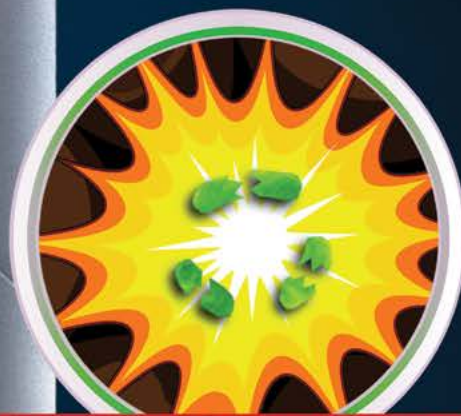
COLLECTION



GROWTH

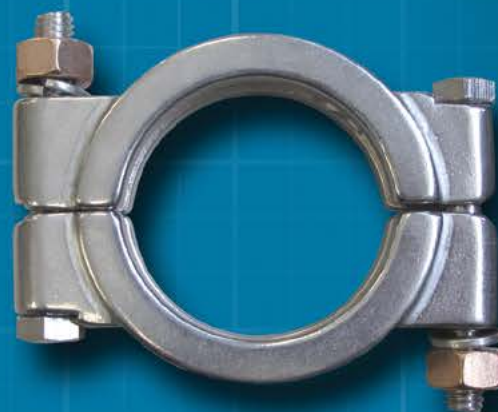


WICKING



SANITIZING ON CONTACT

Sanitary Clamps



Sanitary Clamps

Single Pin Sanitary Hinge Clamp



Size Inch	Part Number	A Dimension Inch
1/2 & 3/4	13MHHM-304-050/075	1.13
34MM	13MHHM-304-34MM	1.50
1 & 1-1/2	13MHHM-304-100/150	2.13
2	13MHHM-304-200	2.66
2-1/2	13MHHM-304-250	3.19
3	13MHHM-304-300	3.72
4	13MHHM-304-400	4.83
5	13MHHM-304-500	5.63
6	13MHHM-304-600	6.69
8	13MHHM-304-800	8.69
10	13MHHM-304-1000	10.70
12	13MHHM-304-1200	12.70

Single Pin Gold Clamp For Inline Identification



Size Inch	Part Number	A Dimension Inch
1/2 & 3/4	13MHHM-304-050/075-GLD	1.13
1 & 1-1/2	13MHHM-304-100/150-GLD	2.12
2	13MHHM-304-200-GLD	2.65
2-1/2	13MHHM-304-250-GLD	3.19
3	13MHHM-304-300-GLD	3.72
4	13MHHM-304-400-GLD	4.82
5	13MHHM-304-500-GLD	5.63
6	13MHHM-304-600-GLD	6.70
8	13MHHM-304-800-GLD	8.70
10	13MHHM-304-1000-GLD	10.70
12	13MHHM-304-1200-GLD	12.70

Double Pin Sanitary Hinge Clamp



Size Inch	Part Number	A Dimension Inch
1/2 & 3/4	13MHHM-DP-075	1.13
1 & 1-1/2	13MHHM-DP-150	2.12
2	13MHHM-DP-200	2.65
2-1/2	13MHHM-DP-250	3.19
3	13MHHM-DP-300	3.72
4	13MHHM-DP-400	4.82
6	13MHHM-DP-600	6.70
8	13MHHM-DP-800	8.70
10	13MHHM-DP-1000	10.70

High Pressure Clamp



Size Inch	Part Number	A Dimension Inch
1/2 & 3/4	13MHP-304-075	1.13
1 & 1-1/2	13MHP-304-150	2.05
2	13MHP-304-200	2.58
2-1/2	13MHP-304-250	3.11
3	13MHP-304-300	3.64
4	13MHP-304-400	4.74
5	13MHP-304-500	5.83
6	13MHP-304-600	6.63

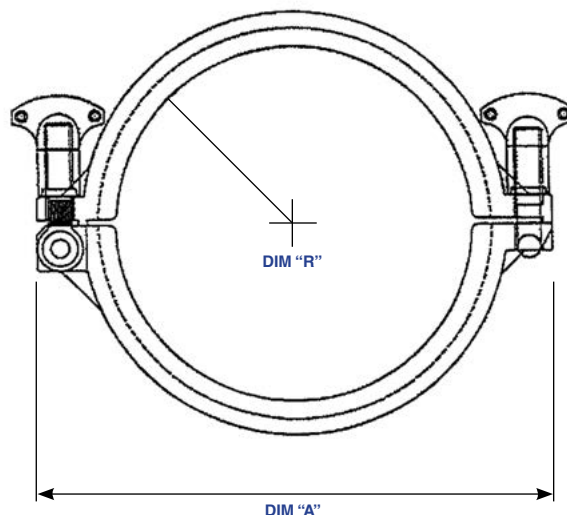
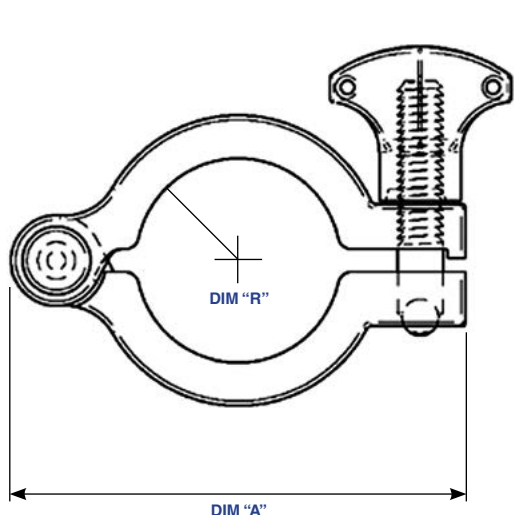
Three Segment Clamp

Three Segment Clamps are also available, consult factory for sizing and availability.

Non-Metallic Clamp



Size Inch	Part Number	A Dim. Inch	B Dim. Inch	R Dim. Inch	Max psi
1/2 & 3/4	13MHM-NGW-050/075	2.17	0.75	0.39	150
1 & 1-1/2	13MHM-NGW-150	3.94	0.75	0.89	150
2	13MHM-NGW-200	4.64	0.75	1.26	150
2-1/2	13MHM-NGW-250	5.20	0.75	1.50	150
3	13MHM-NGW-300	5.75	0.75	1.77	150
4	13MHM-NGW-400	6.66	0.75	2.25	150
6	13MHM-NGW-600	8.81	0.96	3.14	150
8	13MHM-NGW-800	11.14	0.96	4.32	150



Torque Tee

Rubber Fab's Torque Tee and universal torque socket are designed to aid in clamp installation and removal. Available with a family of components, the Torque Tee handle creates effective tightening leverage and aids in reaching tight spaces, including over head and behind tanks.

Features

- Safety yellow coated for high visibility
- Works with standard hinge clamp wing nuts
- Works with Rubber Fab's Torque-Rite®
- T-shape creates effective leverage
- Fast easy one handed tightening in the right direction
- Provides an audible click when any factory preset torque is reached
- Flanged reversing collar disengages the ratchet mechanism and locks the tool for conventional backing off and loosening
- All mechanisms are sealed in die cast handle
- Consult factory for other torques



Rubber Fab Technologies Group

Smart Clamp™

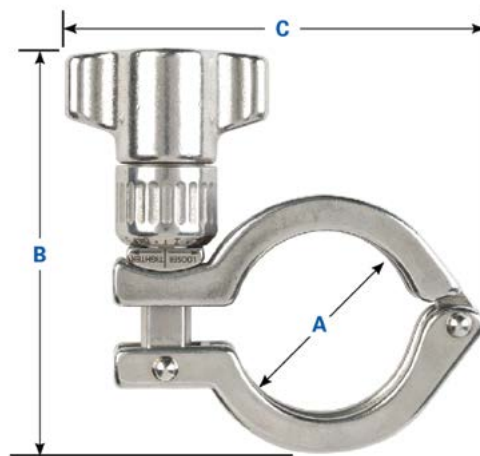
The “Half-Turn” Sanitary Clamp – Rubber Fab is proud to introduce the next generation of sanitary hinge clamps — **the one-piece, completely unitized, Smart Clamp™**. With features that include half-turn installation and faster uptime, the benefits of Rubber Fab’s Smart Clamp™ far exceed any other sanitary clamp.



US Patent # 8,220,113

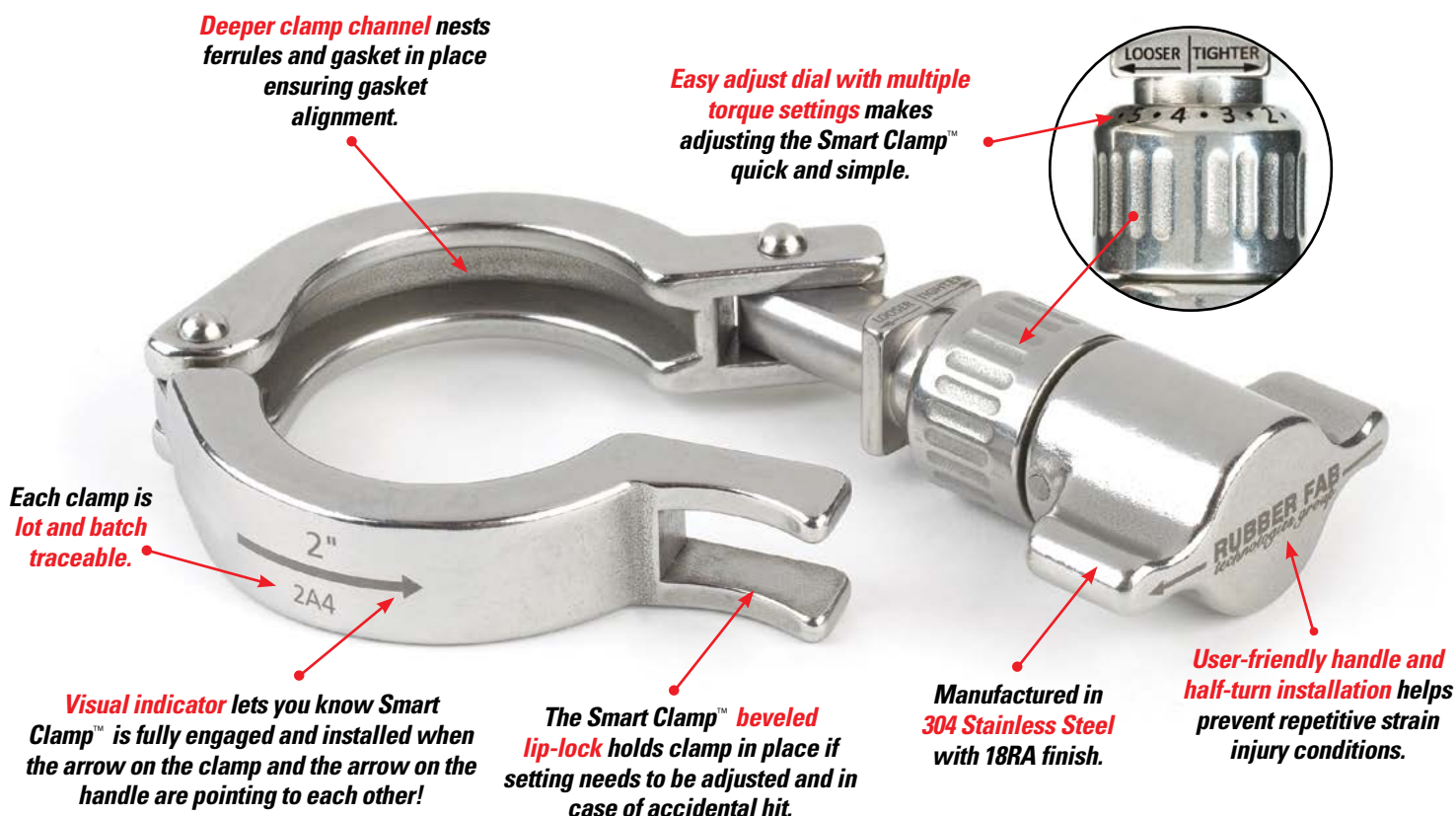
Smart Clamp™

It doesn't get any easier or faster than the half-turn installation of the Rubber Fab Smart Clamp™. In highly repetitive use industries where the use of transfer panels, hose to tank, and SOPs are common place, **time is money — faster is better!** Using a filtration system of orifice plates and screens? Get faster up-time! Clean out backed up screens and have your system up and running faster. Having trouble with installations in tough or awkward conditions and positions? Under tanks? Over head? In a corner? Rupture discs? Smart Clamp™ can help. With a hinge that doesn't collapse, Smart Clamp™ can easily be positioned and controlled around tough installation locations. The deeper clamp channel allows the ferrules and gasket to properly nest together ensuring proper alignment. And because the Smart Clamp™ will not close unless the gasket is properly aligned, you can have confidence that installation is correct in all spots.



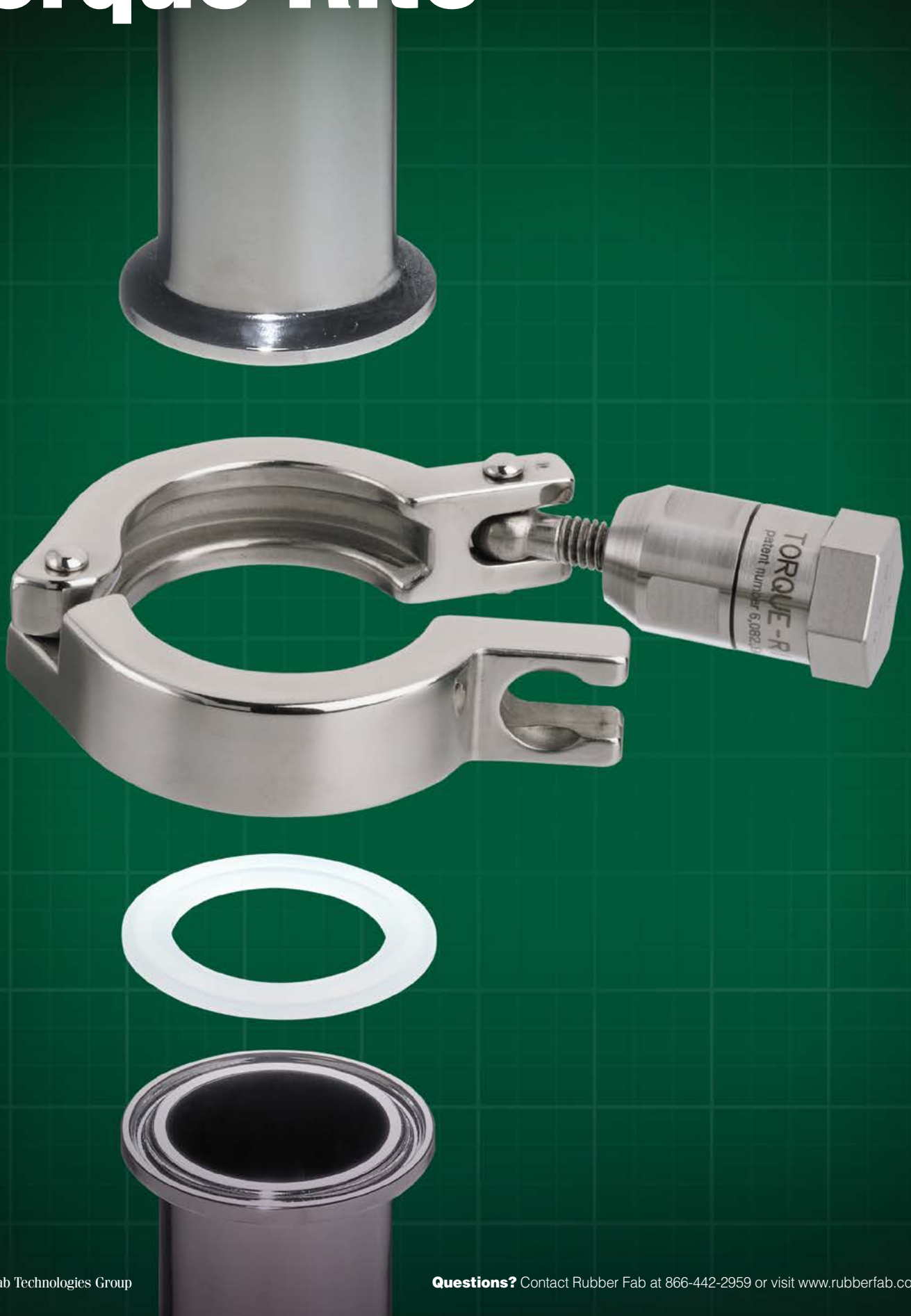
Size Inch	Part Number	Dimension in Inches			Service Pressure Rating	
		"A"	"B"	"C"	@ 70°F psi	@ 250°F psi
1/2 & 3/4	SMARTCLAMP-050/075	CF	CF	CF	1500	1200
34MM	SMARTCLAMP-34MM	1.50	3.88	3.50	500	250
1 & 1-1/2	SMARTCLAMP-100/150	2.90	4.00	4.25	500	250
2	SMARTCLAMP-200	2.72	4.50	4.75	450	250
2.5	SMARTCLAMP-250	3.25	4.75	5.50	500	200
3	SMARTCLAMP-300	3.76	5.00	5.75	350	150
3 Sch 5	SMARTCLAMP-300-V	4.32	5.38	6.25	350	150
4	SMARTCLAMP-400	4.89	5.50	6.87	200	125
6	SMARTCLAMP-600	6.77	6.50	9.00	100	50

CF = Consult Factory



Rubber Fab Technologies Group

Torque-Rite®



Torque-Rite®

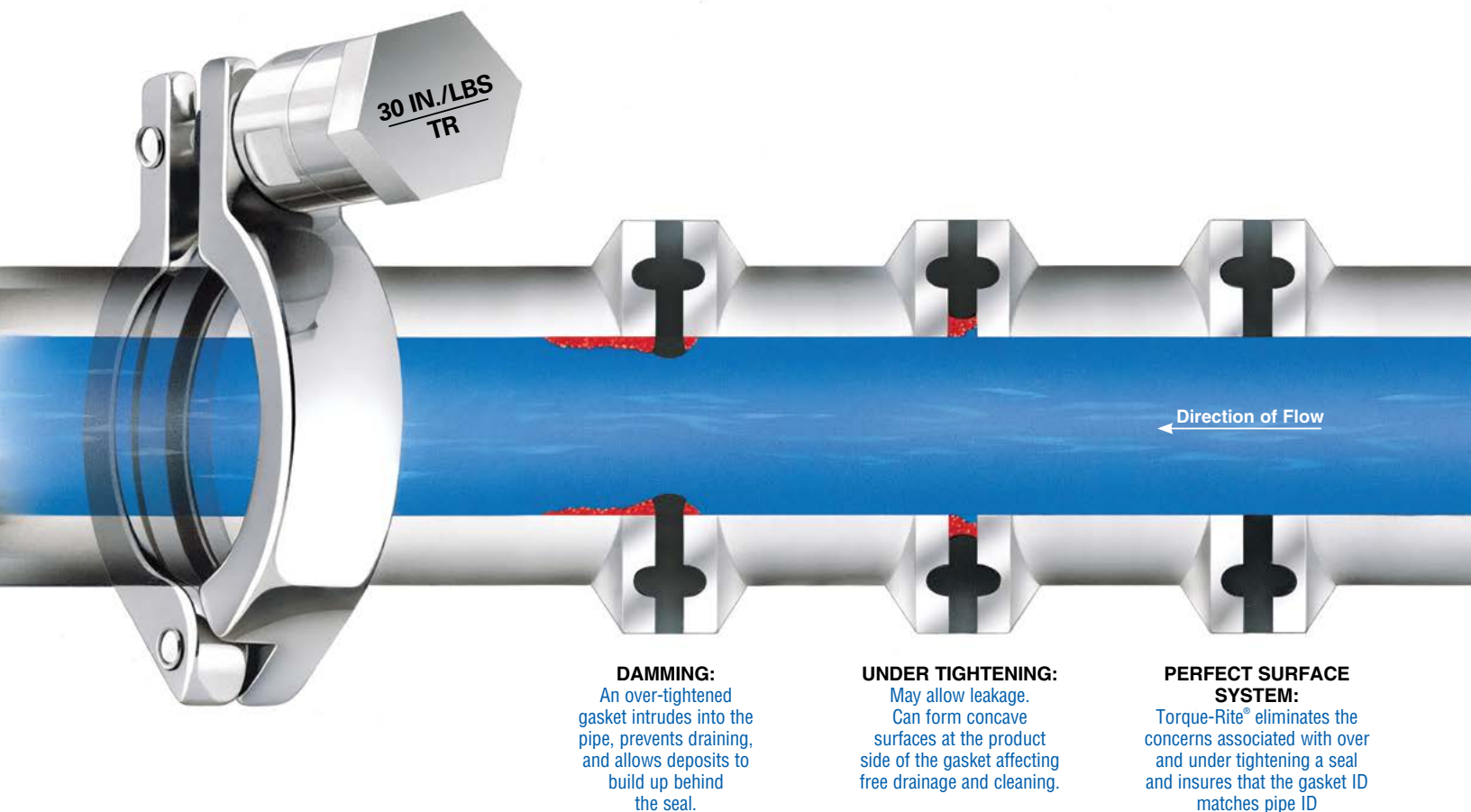
Torque-Rite® allows you to control compression and expansion while maintaining constant inch/pounds force insuring a perfect surface ID. Torque-Rite® eliminates the problems associated with over or under tightening a seal which can lead to an unsanitary system. Compression control is easy! When tightened, the Torque-Rite's® self-limiting internal mechanism will make an audible "click" signaling the user they have reached proper inch/pounds force. The Torque-Rite® has a built-in manual override feature. If further tightening is attempted, there will be more "clicks" but no additional application of force on the sanitary gasket.

Features:

- An audible "click" indicating correct inch/pounds force
- Maintains constant 30 or 50 inch/pounds force
- Manual override feature
- Retrofits all sanitary clamps, mini-6"
- Works in rupture disk applications
- Works with Smart Gasket® thermocouple clamps
- User friendly
- Consult factory for additional custom torque nuts

Torque-Rite® is a registered trademark of Rubber Fab Mold & Gasket Inc.

Torque-Rite® United States Patent Number 6,082,941.



Value Added Services

Electropolishing



Electrochemical in nature, electropolishing uses a combination of rectified current and a blended chemical electrolyte bath to remove flaws from the surface of a metal part.

Electropolish is available for Rubber Fab's stainless steel fittings and adapters.

Passivation

Passivation involves a shielding outer-layer of corrosion which can be applied as a micro-coating. As a technique, passivation is the use of a light coat of protective material such as metal oxide to create a shell against corrosion.

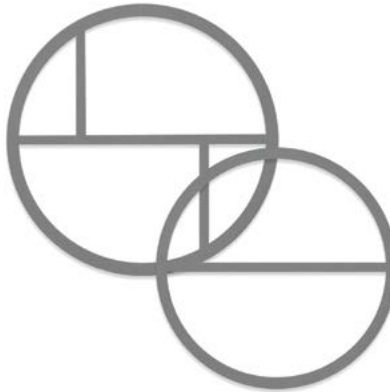
Pressure Testing

As part of Rubber Fab's striving for quality improvement, we have engineered and implemented a 100% pressure testing system for all manufactured hose assemblies.

This testing system is designed for hydrostatic, as well as, submersive. Hose pressure testing media has been changed from potable water to filtered deionized water, therefore, reducing impurities.

Pressure Test documentation available upon request.

Custom Fabrication



- Custom machined fittings and gaskets
- Spool pieces
- Waterjet custom parts
- Tanks/Vessels

Rubber Fab is your complete resource for custom fittings and sanitary gaskets. We will review your part drawing or sample fitting and give you a prompt quotation. Rubber Fab creates custom parts from Tuf-Steel's® heat resistant sheet and rod. Please contact Rubber Fab's Technical Sales team for all of your application needs.

360° Radial Crimp



Rubber Fab's hose fabrication team offers 360° radial crimping to our sanitary hose for a positive lock that enables the assembly to be used to the maximum working pressure of the particular hose style and size without fitting pull-off or blowing off.



Laser Engraved Barcoding



Use etched collars to communicate your most critical information. Part numbers, sizes, service dates, and usage recommendations are just a few examples. Laser etched collars present a sharp, legible, professional image. Include your company name, application specific information such as serial numbers or maintenance codes, and more.

Barcoded Packaging Labels



Barcodes are used to track anything from products to people to even military equipment. Use barcoded labeling to communicate your most critical information. Part numbers, sizes, packaging information and usage recommendations are just a few examples. Printed barcode labels present a sharp, legible, professional image.

Silicone Molded Labeling



Sanitary hose labeling system uses permanently vulcanized silicone to encase a label and color stripes to the outside of the silicone hose for quick, easy to read identification. Color striping also available.

Laser Etched Hose Crimping Collars



- Sharper and more legible than traditional acid-etched parts or handwritten labels.
- Print logos, barcoding, and QR coding.
- Use product serialization (incremental counting) for tracking purposes.
- Use etched collars to communicate your most critical information. Part numbers, sizes, service dates, and usage recommendations are just a few examples.

Laser-Etched Tags



- Easy to attach to hoses
- Inexpensive way to identify
- Etch critical date, i.e., hose maintenance and replacement dates, part numbers, logos, pressure and temperature ratings, contents, suction or discharge service

Private Labeling



Rubber Fab will print your logo and contact information on Rubber Fab's product labels providing a reorder point for your customer.

Quality Assurance Documentation

Material Test Reports (MTRs) for complete lot and batch traceability for stainless steel parts fittings and adapters.

Rubber Fab ships products with a certificate of conformance.

It is Rubber Fab Technologies Group's quality policy to provide the highest quality products, which consistently meet the product specifications developed by Rubber Fab and their customers, both internal and external. We are committed to the continuous improvement of our quality system. We will meet and exceed the expectations of our customers.

Rubber Fab Gaskets Meet the Most Stringent Standards For Purity:

- U.S. Pharmacopeia Class VI Certification*
- Cytotoxicity Criteria*
- Title 21CFR177.2600 and 177.1550
- USDA and 3-A Sanitary Standards
- Current Good Manufacturing Practices (CGMP)
- ASME-BPE Standards
- ISO9001:2000 and QS-9000:1998
- Animal Derived Ingredient Free*

*Buna does not pass U.S. Pharmacopeia Class VI Certification And Cytotoxicity and is not ADI Free®.

Limited Warranty

Rubber Fab warrants their products to be free of material and workmanship defects for a period of 3 months from the time of delivery. Any product deemed to be defective in that time period by Rubber Fab's quality assurance department will be replaced or repaired or at Rubber Fab's discretion refund the purchase price. This is the limit of our liability. Defective products must be returned with an authorized material return authorization number. The product(s) must be returned prepaid freight. Freight charges will be refunded if credit is allowed against the warranty.

Rubber Fab does not make or imply any other warranty and does not accept consequential damages.

Rubber Fab does not warrant the suitability of materials for specific applications.

Selection, Design and Installation Notes: STAMPED

Selection of the proper hose assembly for any given application should take into account the following seven considerations. They are known by the acronym STAMPED.

S SIZE

Hose inside diameter, outside diameter and overall length.

T TEMPERATURE

Maximum temperature of the material being conveyed and of the application environment

A APPLICATION

External conditions/environment such as abrasion, bend radius, climate/temperature, crushing, flexing, kinking, and exposure to chemicals, oil, ozone, and ultraviolet light.

M MEDIA

Type and concentration of material being conveyed and compatibility with the hose

P PRESSURE

Maximum system pressure, including pressure spikes.

E ENDS

Style, type, attachment method, pressure rating, and material compatibility of end couplings and connections.

D DELIVERY

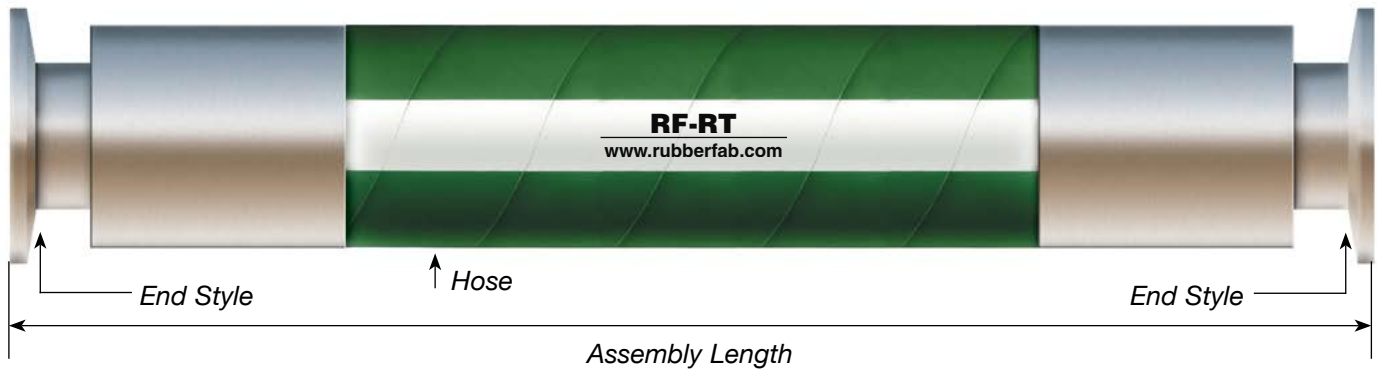
Testing, packaging, and delivery requirements.

Other Considerations: Abrasion, color, conductivity/nonconductivity, suction/vacuum; industry or regulatory specifications or standards.



How To Build A Hose Assembly

Ordering Rubber Fab Hose Assemblies and understanding a Rubber Fab Part Number



Example part#:

16RFRT16TC16TCSSAR-36

When you break it down, what does this part# means?

16 RFRT 16TC 16TC SS AR - 36

16 Hose ID – Size in 16th of an Inch

ID for this hose is 1 inch

RFRT Rubber Fab Hose Type

This hose is RFRT – Smoothbore FEP Lined EPDM Rubber Hose

16TC 16TC Size and Style of Fitting Ends

Both fittings on this hose are 1 inch Sanitary Tri-Clamp®

SS Fitting Material

The fittings for this hose are 316L Stainless Steel

AR Accessory (not pictured in example)

This armor casing accessory will cover the length of live hose

- 36 Overall Assembly Length in Inches

The overall length of this hose is 36 inches

Ordering Hose Assemblies

Hose I.D. In 16th of inch

02	=	.125"
04	=	.25"
06	=	.375"
08	=	.50"
12	=	.75"
16	=	1.00"
20	=	1.25"
24	=	1.50"
32	=	2.00"
40	=	2.50"
48	=	3.00"
64	=	4.00"
96	=	6.00"
128	=	8.00"

Rubber Fab Hose Type

FDA Rubber Hose

RFFDAEOC
RFFDAE
RFFDAELF
RFF&B
RFFDA
RFFDAOC
RFFDAC

Washdown Hose

RFWD
RFWDAM

Smoothbore

RFRTPOC
RFRT
RFRTF
RFRTPW
RFST
RFSTFT
RFSTS
RFSTB
RFSTBS
RFSF
RFTF
RFXF

Convuluted Fluoropolymer

RFCTLP
RFCTLPFT
RFCTLPS
RFCTLPB
RFCTLPP
RFCTLPFT
RFCTLPPB

Metal Hose

RFSSH
RFSSHT

Sight Glass

RFSG
RFCSG
RFPSSG
RFBSG

Metal Detection Tube

RFKMD

Silicone

RFSB
RFSBX
RFSBHP
RFS4P
RFSV
RFSVOC

FDA PVC Hose

RFPB
RFPVV
RFPVW

Size and Style of Fitting Ends

BB	=	Hose Barb X Hose Barb
BSN	=	Bevel Seat Nut
BWP	=	Buttweld Pipe
BWT	=	Buttweld Tube
CTA	=	Compression Tube Adapter
CTAFN	=	Compression Tube Adapter Ferrule and Nut
CTC	=	Compression Tube Connector
CTCFN	=	Compression Tube Connector Ferrule and Nut
FCL	=	Female Camlock
FIL	=	Female I-Line
FJIC	=	Female JIC w/nut
FPT	=	Female Pipe Thread
FUA	=	Female Union Adapter
JPf	=	John Perry Female
JPM	=	John Perry Male
LJF	=	Lap Joint Flange
MBS	=	Male Bevel Seat
MCL	=	Male Camlock
MIL	=	Male I-Line
MPT	=	Male Pipe Thread

MTC	=	Maxi Tri-Clamp®
MUA	=	Male Union Adapter
QL	=	Q-Line
RTC	=	Reuseable Tri-Clamp®
SL	=	Sani-Lock®
SSTEF	=	PTFE Encapsulated
TC	=	Sanitary Tri-Clamp® & Mini Tri-Clamp®
TC45	=	45° TC Elbow
TC90	=	90° TC Elbow

Fitting Material

4	=	304SS Material or 304SS 150# Flanges
6	=	316SS Material or 316SS 150# Flanges
AL	=	Aluminum
BR	=	Brass
CS	=	Carbon Steel
FL	=	Flare Thru
HC22	=	Hastelloy C22
HC276	=	Hastelloy C276
K	=	Kynar® (PVDF)
M	=	Molded Ends
MO	=	Monel
PP	=	Polypropylene
PS	=	Polysulfone
PVC	=	PVC
SS	=	316L Stainless Steel
SSEP	=	316L Stainless Steel, Electropolished

Accessory

AC	=	Armor Cuff
AR	=	Armor
D	=	Donut
FS	=	Fire Sleeve
GB	=	Golden Bridge
GR	=	Grounded
ML	=	Molded Label
O	=	Oxygen Cleaned
PO	=	Polyolifin Shrink Wrap
SB	=	Stainless Braid
SG	=	Spring Guard
SL	=	Silicone Cover
TSW	=	PTFE/FEP Shrink Wrap

Bend Radius

Flexibility and minimum bend radius are important factors in hose design and selection if it is known that the hose will be subjected to sharp curvatures in normal use. When bent at too sharp of an angle, the hose may kink or flatten in the cross-section. The reinforcement may also be unduly stressed or distorted and the hose life thereby shortened.

Adequate flexibility means the hose should be able to conform to the smallest anticipated bend radius without over stress. The minimum bend radius is generally specified for each hose in this catalog. This is the radius to which the hose can be bent in service without damage or appreciably shortening its life. The radius is measured to the inside of the curvature.

BEND RADIUS:

For fluoropolymer hose and all rubber hose the radius of a bent section of hose measured to the innermost surface of the curved portion (R1).

For metal hose the radius of a bent section of hose measured to the hose centerline (R2).

MINIMUM BEND RADIUS:

The smallest radius at which a hose can be used.

FORCE TO BEND:

The amount of stress required to induce bending around a specified radius—a measurement of stiffness.

MAXIMUM RATED WORKING PRESSURE:

The maximum pressure hoses should be subjected to on a continuous basis.

MAXIMUM RATED TEST PRESSURE:

The maximum rated pressure is multiplied by 150%.

NOMINAL RATED BURST PRESSURE:

The average pressure at which the core or braid will rupture at ambient temperature.

PRESSURE/TEMPERATURE CORRECTION:

Hose pressure capabilities decrease as the temperature increases. Consult factory to determine pressure rating at elevated temperatures.

BEND RADIUS FORMULA:

Formula to determine minimum hose length given bend radius and degree of bend required.

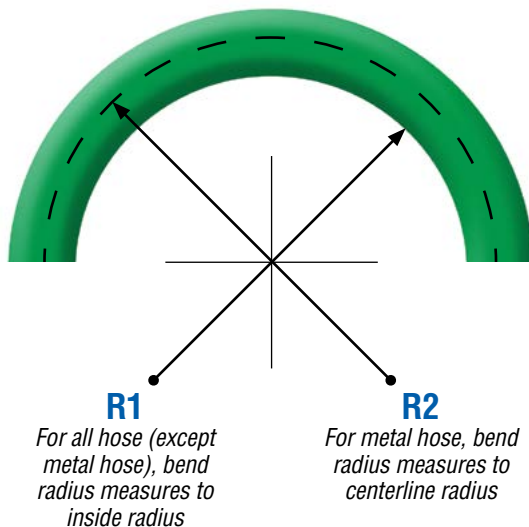
$$L = \frac{A}{360^\circ} \times 2\pi B$$

L = Minimum length of hose to make bend (bend must be made equal along this portion of hose length).

A = Angle of bend

B = Given bend radius of hose

π = 3.14



Tolerances

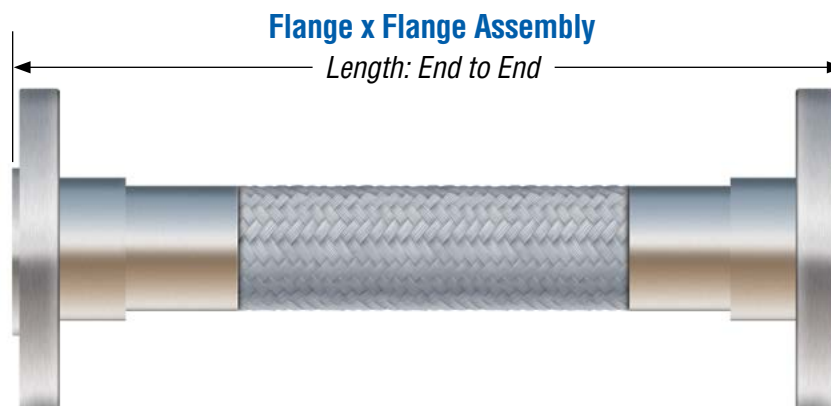
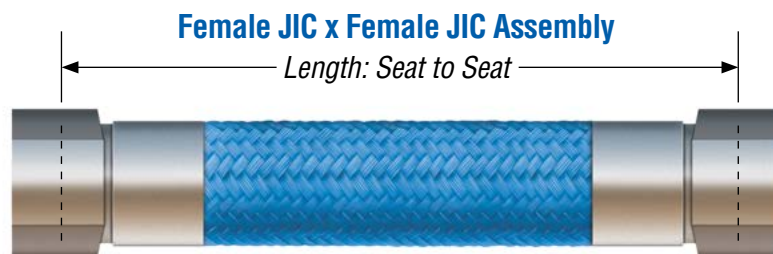
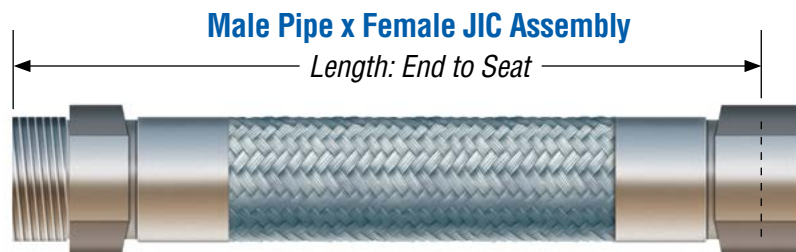
The overall length tolerance for hose assemblies are:

+/- 1/4" on assemblies 6 to 24 inches overall length.

+/- 1/2" on assemblies 24 to 60 inches overall length.

Not to exceed +/- 1% on assemblies over 60 inches overall length.

Measuring Hose Assemblies



Steam Table Guide

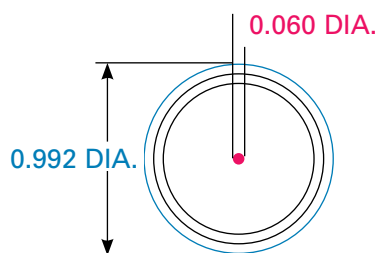
Gauge psi	Temp °F	Gauge psi	Temp °F	Gauge psi	Temp °F	Gauge psi	Temp °F	Gauge psi	Temp °F
5	227	45	293	85	328	150	366	230	399
6	230	46	294	86	328	152	367	232	400
7	232	47	295	87	329	154	368	324	400
8	235	48	296	88	330	156	369	235	401
9	237	49	297	89	331	158	370	237	402
10	240	50	298	90	331	160	371	239	402
11	242	51	299	91	332	162	372	241	403
12	244	52	300	92	333	164	372	243	404
13	246	53	301	93	333	166	373	245	404
14	248	54	302	94	334	168	374	247	405
15	250	55	303	95	335	170	375	249	406
16	252	56	304	96	335	172	376	251	406
17	254	57	305	97	336	174	377	253	407
18	255	58	306	98	337	176	378	255	408
19	257	59	306	99	337	178	379	257	408
20	259	60	307	100	338	180	380	259	409
21	261	61	308	102	339	182	380	261	410
22	262	62	309	104	341	184	381	263	410
23	264	63	310	106	342	186	382	265	411
24	265	64	311	108	343	188	383	267	412
25	267	65	312	110	344	190	384	269	412
26	268	66	313	112	345	192	385	271	413
27	270	67	314	114	347	194	385	273	414
28	271	68	314	116	348	196	386	275	414
29	273	69	315	118	349	198	387	277	415
30	274	70	316	120	350	200	388	279	415
31	276	71	317	122	351	202	389	281	416
32	277	72	318	124	352	204	389	283	417
33	278	73	319	126	353	206	390	285	417
34	280	74	319	128	355	208	391	295	420
35	281	75	320	130	356	210	392	305	423
36	282	76	321	132	357	212	392	355	437
37	283	77	322	134	358	214	393	375	442
38	285	78	322	136	359	216	394	385	445
39	286	79	323	138	360	218	395	405	449
40	287	80	324	140	361	220	395	455	461
41	288	81	325	142	362	222	396	510	472
42	289	82	326	144	363	224	397	560	482
43	290	83	326	146	364	226	398	585	486
44	291	84	327	148	365	228	398		

Tri-Clamp® Sizing Guide

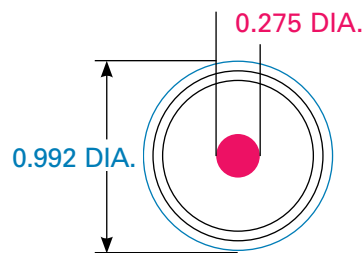
These actual size drawings are provided to eliminate sizing errors when specifying sanitary fittings. The outside diameter is the same for 1/8", 1/4", 3/8", 1/2", and 3/4" ID, "mini" sizes (0.992" OD). The same holds true for the 1" and 1-1/2" ID sizes (1.984" OD).

The 2", 2-1/2", 3", 4", and 6" ID have specific OD diameters.

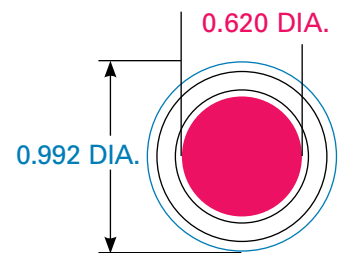
For your convenience and ordering accuracy, all of these drawings may be used as sizing ID and OD patterns.



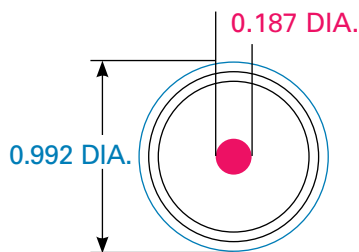
1/8" MINI TC



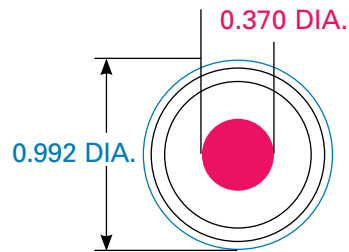
3/8" MINI TC



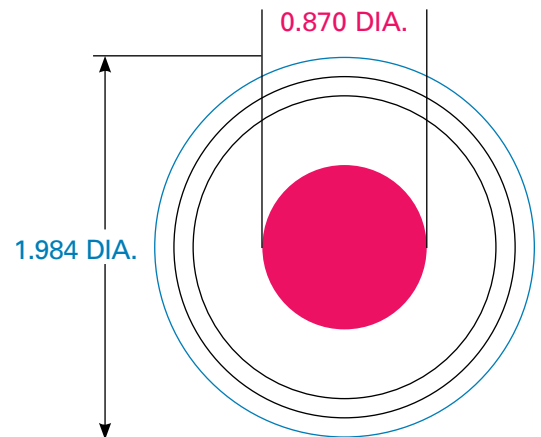
3/4" MINI TC



1/4" MINI TC



1/2" MINI TC

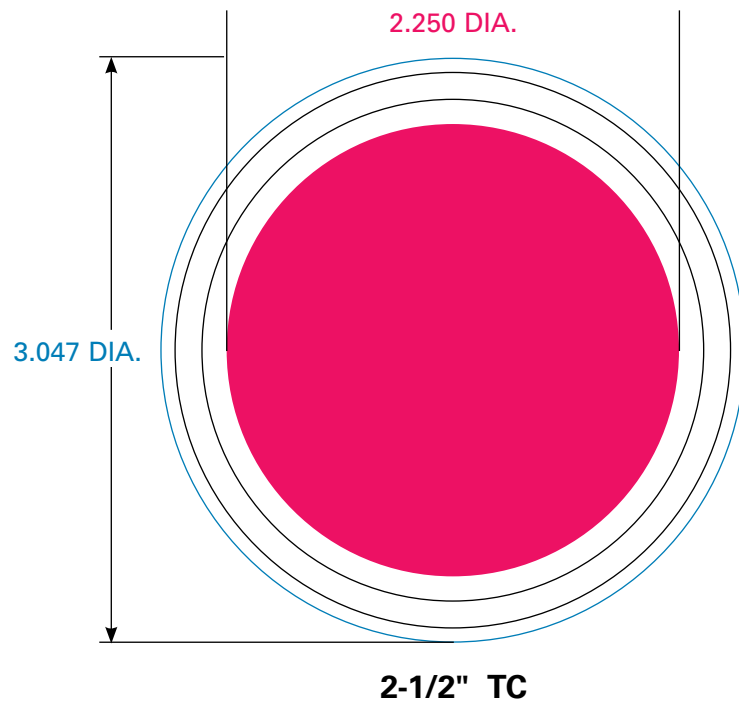
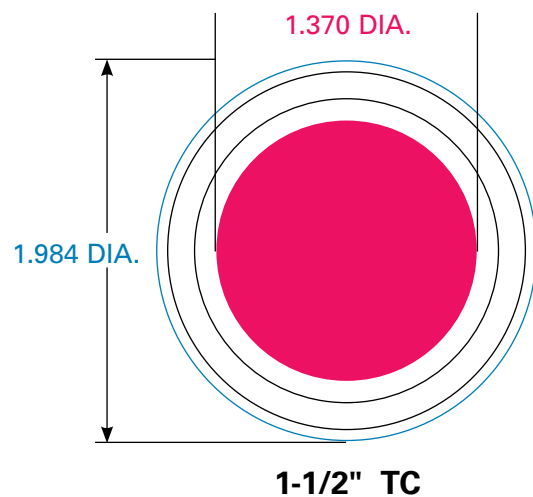
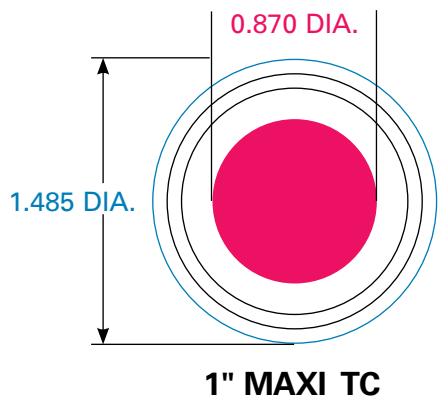
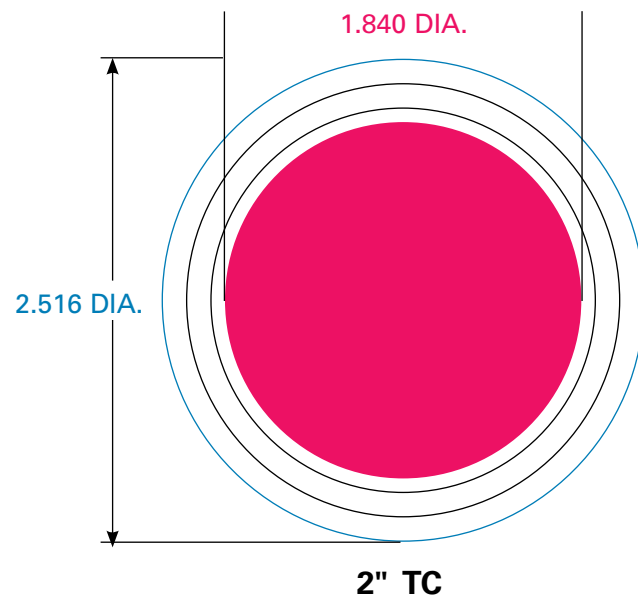
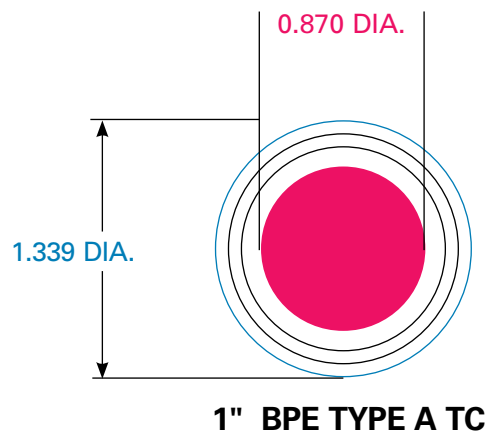


1" LADISH® TC

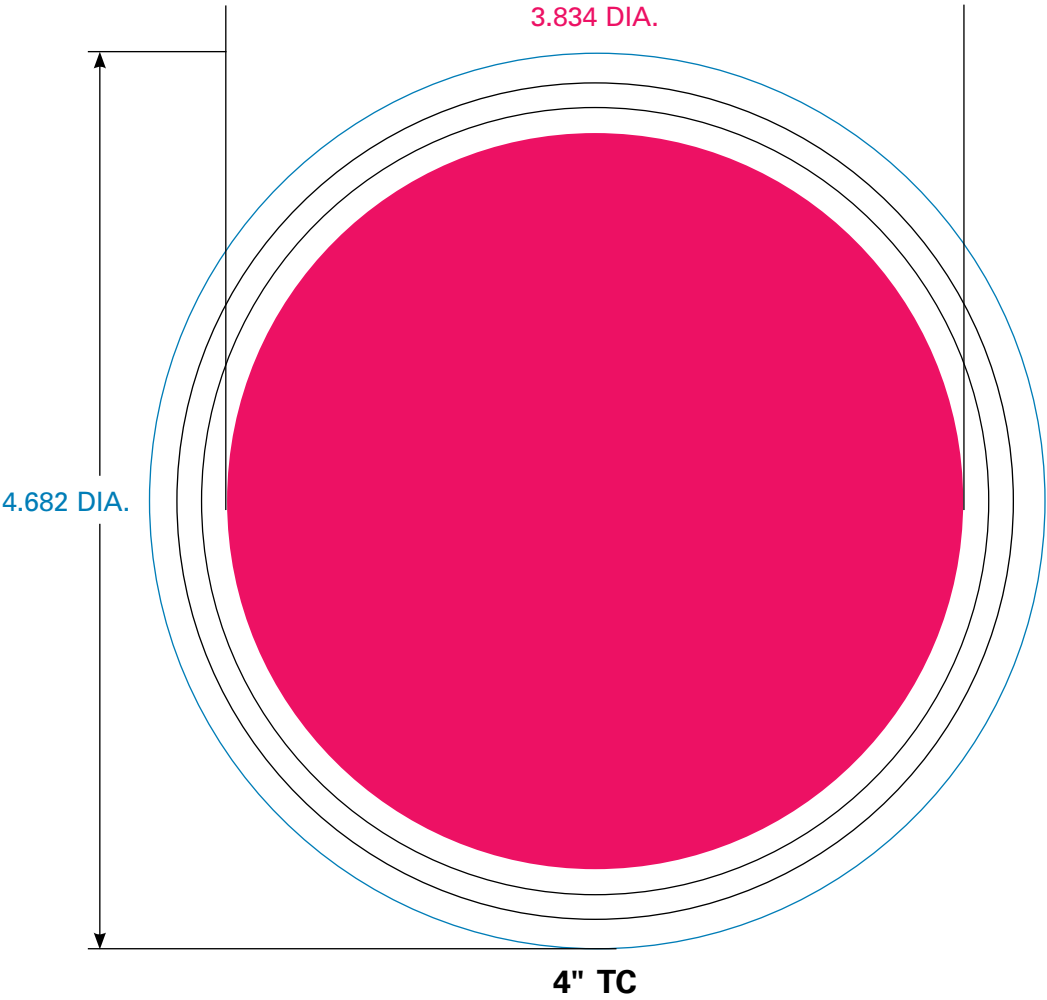
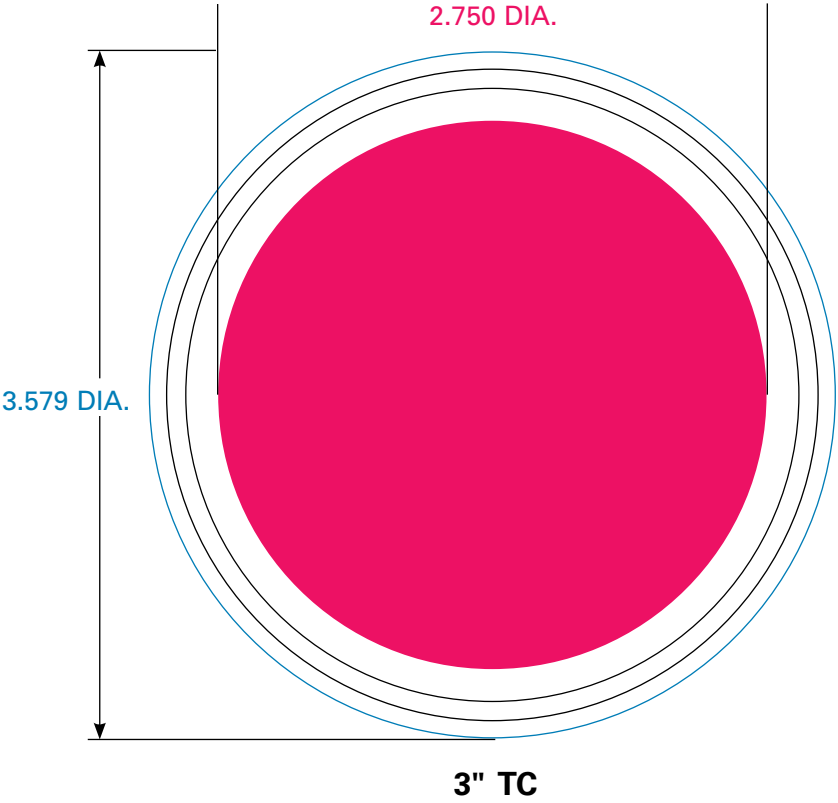
NOTE:

ID measurements are indicated in red
OD measurements are indicated in blue

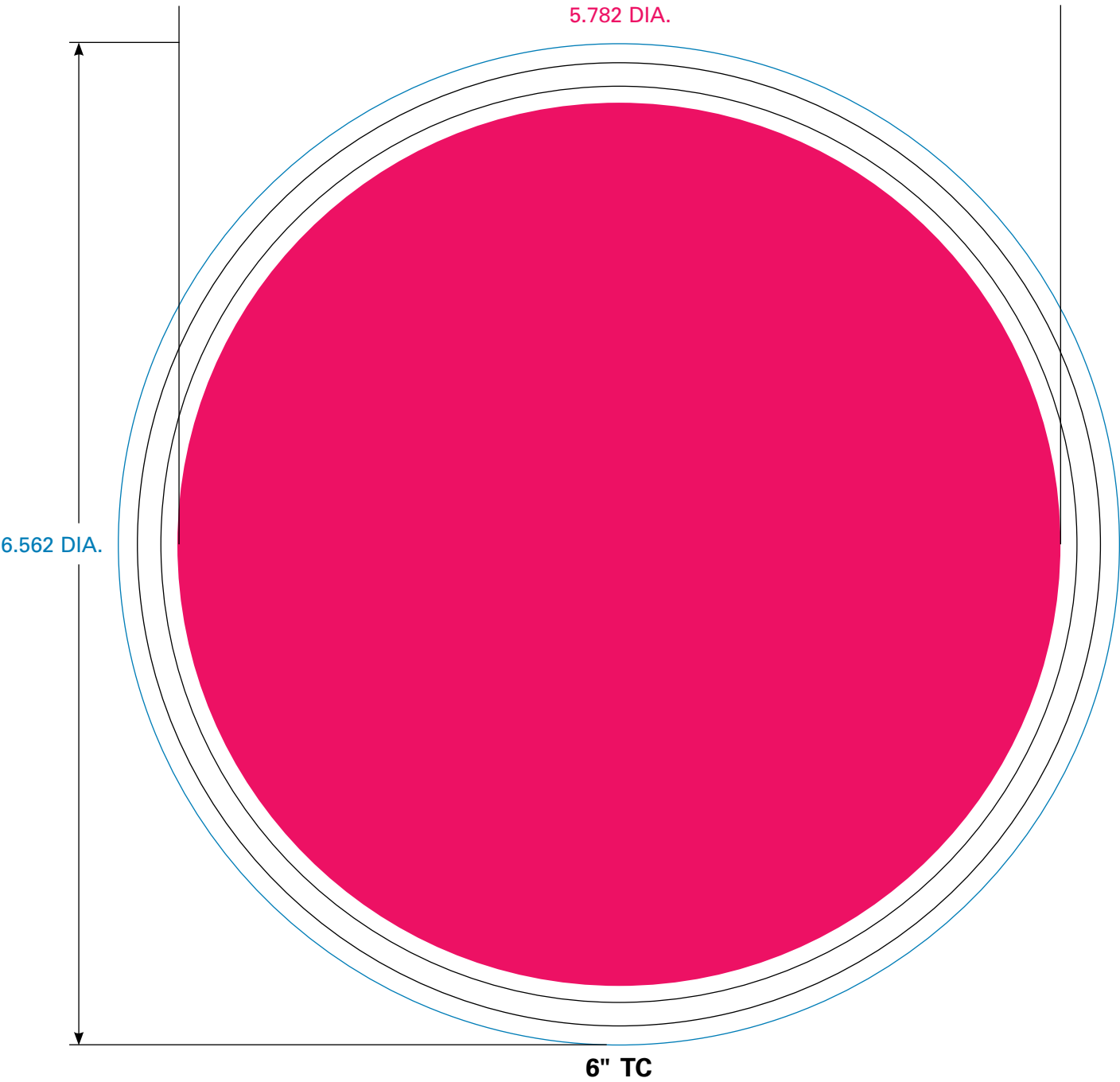
Tri-Clamp® Sizing Guide



Tri-Clamp® Sizing Guide

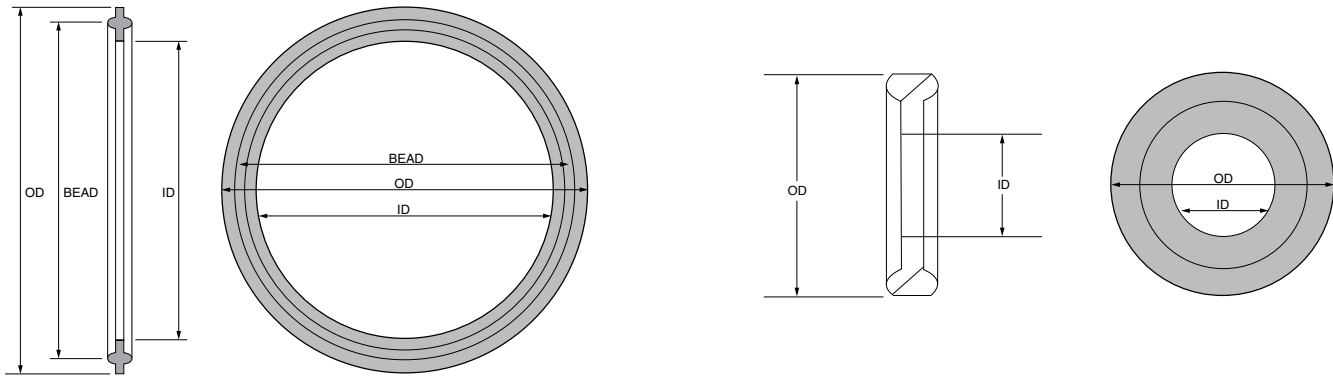


Tri-Clamp® Sizing Guide



Dimensional Chart

For sanitary Tri-Clamp® gaskets.



ID		OD		Bead			DIN 32676	ISO1127	BPE	SCH 5
inch	mm	inch	mm	inch	mm					
0.17	4.2	0.87	22	*	*		DN06		1/4"	
0.24	6.2	0.87	22	*	*		DN08			
0.32	8.2	0.87	22	*	*		DN10B		3/8"	
0.40	10.2	0.87	22	*	*		DN12		1/2"	
0.48	12.2	0.87	22	*	*		DN14			
0.56	14.2	0.87	22	*	*		DN16			
0.64	16.2	0.87	22	*	*		DN18		3/4"	
* Mini gaskets do not have a ferrule bead. Above sizes utilize clamp size: 13MHHM-304-050/075										
0.40	10.2	1.34	34	1.08	27.5		DN10			
0.41	10.5	1.34	34	1.08	27.5			DN08		
0.56	14.2	1.34	34	1.08	27.5			DN10		
0.64	16.2	1.34	34	1.08	27.5		DN15			
0.72	18.2	1.34	34	1.08	27.5			DN15		
0.80	20.2	1.34	34	1.08	27.5		DN20			
0.90	22.9	1.34	34	1.08	27.5				1" NEW	
Above sizes utilize clamp size: 13MHHM-304-34mm										
0.90	22.9	1.49	37.7	1.25	31.75				1" MAXI	
Above size utilizes clamp size: 13MHHM-304-100/150										
.40	10.2	2.00	50.5	1.71	43.5		DN10C			
.56	14.2	2.00	50.5	1.71	43.5			DN10B		
.64	16.2	2.00	50.5	1.71	43.5		DN15B			
.79	20.2	2.00	50.5	1.71	43.5		DN20B			
0.72	18.4	2.00	50.5	1.71	43.5			DN15B		
0.90	22.9	2.00	50.5	1.71	43.5				1"	
0.94	23.9	2.00	50.5	1.71	43.5			DN20		
1.03	26.2	2.00	50.5	1.71	43.5		DN25			
1.18	29.9	2.00	50.5	1.71	43.5			DN25		
1.20	30.5	2.00	50.5	1.71	43.5					1"
1.27	32.2	2.00	50.5	1.71	43.5		DN32			
1.39	35.3	2.00	50.5	1.71	43.5				1.5"	
1.50	38.2	2.00	50.5	1.71	43.5		DN40			
1.52	38.6	2.00	50.5	1.71	43.5			DN32		
Above sizes utilize clamp size: 13MHHM-304-100/150										

Dimensional Chart

ID		OD		Bead			DIN 32676	ISO1127	BPE	SCH 5
inch	mm	inch	mm	inch	mm					
1.52	38.6	2.52	64	2.22	56.5			DN32B		
1.75	44.5	2.52	64	2.22	56.5			DN40		
1.78	45.3	2.52	64	2.22	56.5					1.5"
1.88	47.8	2.52	64	2.22	56.5				2"	
1.98	50.2	2.52	64	2.22	56.5		DN50			
Above sizes utilize clamp size: 13MHHM-304-200										
2.22	56.5	3.05	77.5	2.78	70.5			DN50		
2.26	57.4	3.05	77.5	2.78	70.5					2"
2.39	60.5	3.05	77.5	2.78	70.5				2.5"	
Above sizes utilize clamp size: 13MHHM-304-250										
2.60	66.2	3.58	91	3.29	83.5		DN65			
2.72	69	3.58	91	3.29	83.5					2.5"
2.85	72.3	3.58	91	3.29	83.5			DN65		
2.88	73.1	3.58	91	3.29	83.5				3"	
Above sizes utilizes clamp size: 13MHHM-304-300										
3.20	81.2	4.17	106	3.82	97		DN80			
3.35	85.1	4.17	106	3.82	97			DN80		3"
Above sizes utilize clamp size: 13MHHM-V-304-300										
3.85	97.7	4.67	119	4.33	110				4"	
3.94	100.2	4.67	119	4.33	110		DN100			
Above sizes utilize clamp size: 13MHHM-304-400										
4.35	110.5	5.12	130	4.80	122		DN115	DN100		4"
Above size utilizes clamp size: 13MHHM-V-304-400										
4.86	123.5	5.68	144.2	5.29	134.3				5"	
Above sizes utilize clamp size: 13MHHM-304-500										
4.94	125.4	6.10	155	5.75	146		DN125			
5.30	134.7	6.10	155	5.75	146			DN125		
5.35	135.9	6.10	155	5.75	146					5"
Above sizes utilize clamp size: 13MHHM-V-304-500										
5.80	147.2	6.57	167	6.16	156.5				6"	
Above size utilizes clamp size: 13MHHM-304-600										
5.92	150.4	7.20	183	6.85	174		DN150			
6.43	163.3	7.20	183	6.85	174			DN150		6"
Above sizes utilize clamp size: 13MHHM-V-304-600										
7.80	198	8.56	217.4	8.15	207				8"	
Above sizes utilize clamp size: 13MHHM-304-800										
7.88	200.2	9.19	233.5	8.86	225		DN200			
8.43	214.2	9.19	233.5	8.86	225			DN200		8"
Above sizes utilize clamp size: 13MHHM-V-304-800										
9.74	247.4	10.55	268	10.12	257		DN250		10"	
Above size utilizes clamp size: 13MHHM-304-1000										
11.74	298.2	12.56	319	12.17	309		DN300		12"	
Above size utilizes clamp size: 13MHHM-304-1200										

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Rubber Fab offers a wide variety of sanitary gaskets and o-rings. Hygienic seals are used widely in the Biotech, Pharmaceutical, Dairy, Food & Beverage, Industrial, and Semiconductor industries to seal clamp connections in sanitary pipe lines. We offer an entire product range of specialty gaskets in several elastomers and fluoropolymers. Rubber Fab specializes in the manufacture of customer specified products.



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Rubber Fab's fluid filtration screen gaskets provide the most comprehensive range of stainless steel mesh and filter cloth which provide for particulate elimination to protect fill and finish sterile products, spray balls, and spray nozzles. You can choose a screen gasket in a USP Class VI elastomer or fluoropolymer in a variety of mesh sizes, 10 micron through 4 mesh.



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Rubber Fab's Orifice and Perforated Plate Gaskets can advance your system's performance, adjust flow rates, balance backflow, and equalize backpressure during SIP procedures.



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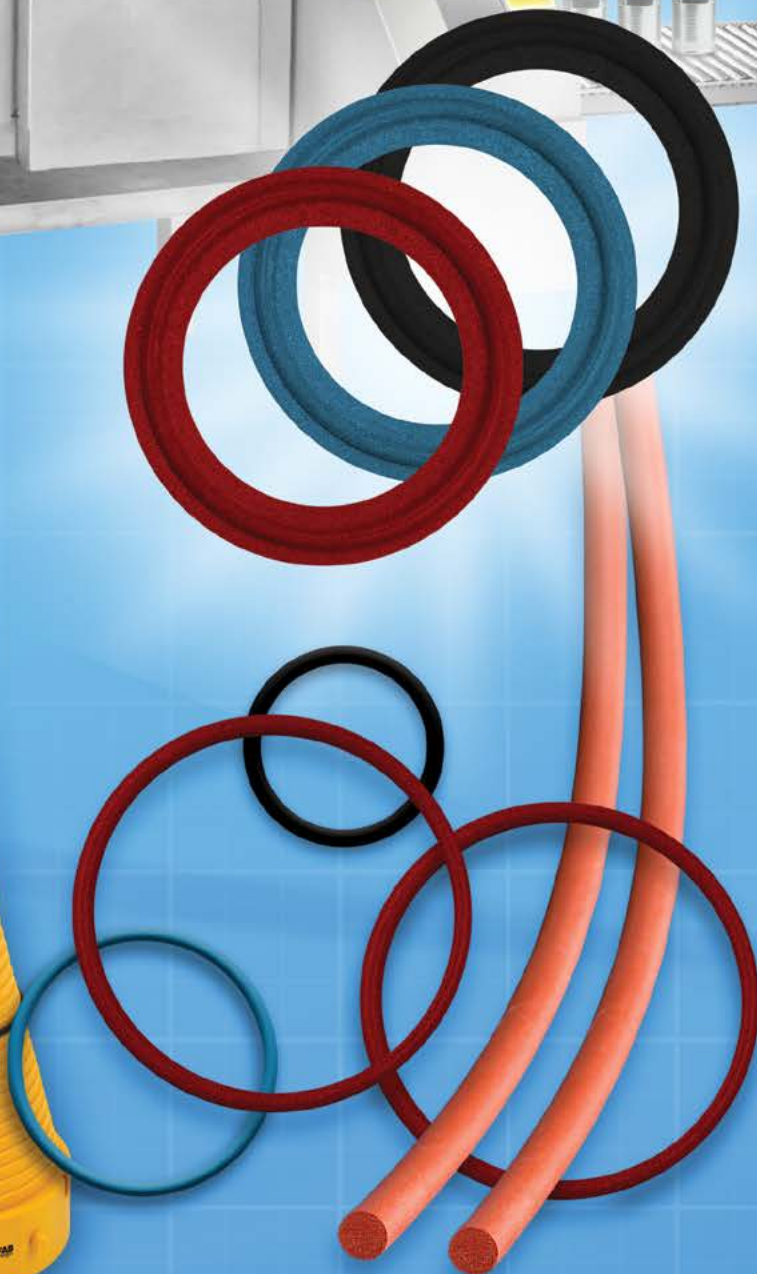
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Rubber Fab offers a full line of AS568 dash numbers, metric, and specialty o-ring sizes that are manufactured using EPDM, FKM Fluoroelastomer, Buna, PTFE, Silicone, and Tuf-Steel® FDA or USP Class VI compliant compounds.



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