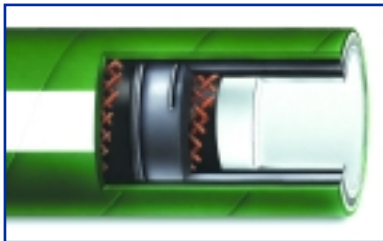


# SMOOTH BORE FEP/PTFE HOSE

RF-RT  
RF-RTB  
RF-ST  
RF-STB  
RF-STS  
RF-STSB

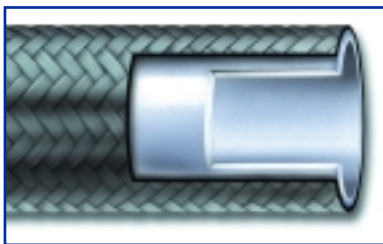
## PRODUCT LINE OVERVIEW:



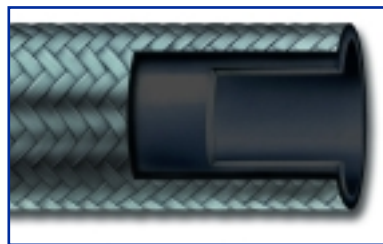
RF-RT  
Smooth Bore FEP or Black Conductive FEP Lined  
EPDM Covered Hose



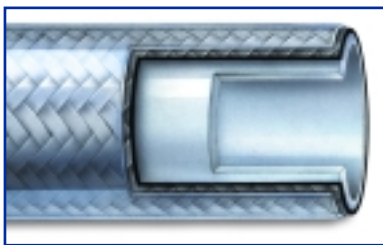
RF-RTB



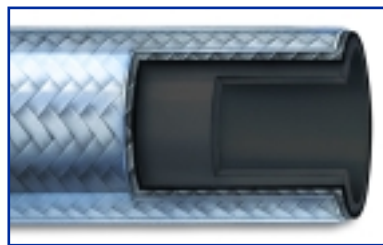
RF-ST  
Smooth Bore PTFE or Black Conductive PTFE  
Lined Hose with Braided Stainless Steel Cover



RF-STB



RF-STS  
Smooth Bore PTFE or Black Conductive PTFE  
Lined Hose with Braided Stainless Steel Outer and  
Silicone Cover



RF-STSB



**Highland  
Equipment  
Limited**

## RF-RT – Smooth Bore FEP Lined EPDM Covered Hose



*RF-RT is the most flexible, kink resistant hose of its type in the industry.*

### TUBE:

Seamless White FEP

### COVER:

EPDM Rubber (Abrasion resistant and oil resistant)

### CONSTRUCTION:

Smooth FEP inner core bonded to an EPDM rubber tube

### REINFORCEMENT:

Multiple braids, helical wire

### TEMPERATURE:

-40°F to 350°F

Part Number	I.D.	O.D.	Working Pressure*	Vacuum (In. Hg)	Minimum Bend Radius
08RFRT	.50	.950	500 psi	29.9	2.0"
12RFRT	.75	1.23	500 psi	29.9	3.0"
16RFRT	1.0	1.52	450 psi	29.9	4.0"
20RFRT	1.25	1.73	350 psi	29.9	6.5"
24RFRT	1.5	2.12	300 psi	29.9	7.5"
32RFRT	2.0	2.67	250 psi	29.9	9.5"
40RFRT	2.5	3.20	200 psi	29.9	16.5"
48RFRT	3.0	3.88	150 psi	29.9	20.0"
64RFRT	4.0	4.70	150 psi	29.9	30.0"

\*at 68°F

## RF-RTB – Smooth Bore Black Conductive FEP Lined EPDM Covered Hose



### TUBE:

Seamless Black Conductive FEP

### COVER:

EPDM Rubber (Abrasion resistant and oil resistant)

### CONSTRUCTION:

Smooth FEP inner core bonded to an EPDM rubber tube

### REINFORCEMENT:

Multiple braids, helical wire

### TEMPERATURE:

-40°F to 350°F

Part Number	I.D.	O.D.	Working Pressure*	Vacuum @ 70°F	Minimum Bend Radius
08RFRTB	.50	.950	500 psi	29.9	2.0"
12RFRTB	.75	1.23	500 psi	29.9	3.0"
16RFRTB	1.0	1.52	450 psi	29.9	4.0"
20RFRTB	1.25	1.73	350 psi	29.9	7.0"
24RFRTB	1.5	2.12	300 psi	29.9	7.5"
32RFRTB	2.0	2.67	250 psi	29.9	9.5"
40RFRTB	2.5	3.20	200 psi	29.9	16.5"
48RFRTB	3.0	3.88	150 psi	29.9	20.0"
64RFRTB	4.0	4.70	150 psi	29.9	30.0"

\*at 68°F

## RF-RT RF-RTB

### Approvals

- 3A Sanitary
- USP Class VI
- FDA 21 CFR 17.1550
- FDA 21 CFR 17.2600

### Features

- Extremely flexible
- Excellent kink resistance
- 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 contacted substances
- Inert and resistant to most chemicals and reagents
- Cleanable by SIP, CIP, COP methods
- Machine braid-reinforced product designed for safety at higher than normal pressures. Recommended rated pressures are based on at least 4:1 minimum burst to operating pressure ratio. Most sizes exceed this safety minimum.
- Conductive black liner available
- Available in custom colors
- Available in bulk or fabricated assemblies

### Applications

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

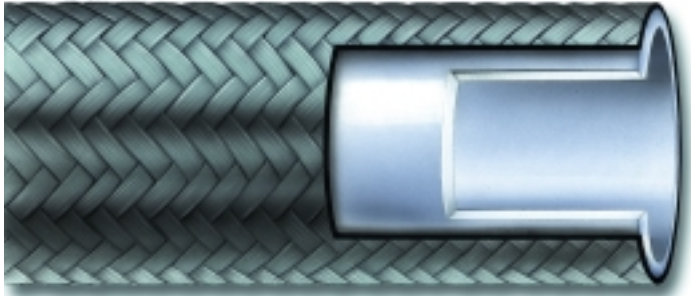
### Connections

- Broad variety of fittings in 316L Stainless Steel
- PTFE encapsulated
- Kynar®/PVDF and other non-metallic materials
- Electropolished Stainless Steel fittings available
- Crimped fittings available in other high quality alloys



**Highland  
Equipment  
Limited**

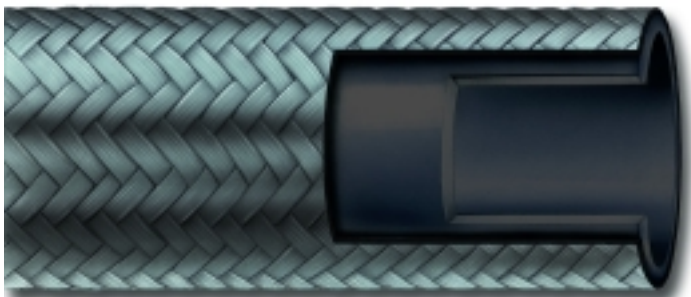
## RF-ST – Smooth Bore PTFE Lined Hose with Braided Stainless Steel Cover



<b>TUBE:</b> Seamless White PTFE	<b>Part Number</b>	<b>I.D.</b>	<b>O.D.</b>	<b>Working Pressure*</b>	<b>Minimum Bend Radius</b>
	04RFST	.250	.375	3000 psi	2.5"
<b>COVER:</b> Braided Stainless Steel	06RFST	.375	.520	2500 psi	3.5"
	08RFST	.500	.648	2000 psi	4.0"
<b>TEMPERATURE:</b> -100°F to 500°F	12RFST	.750	.910	1200 psi	7.5"
	16RFST	1.00	1.13	800 psi	12.0"
	24RFST	1.50	1.67	900 psi	14.0"

\*at 68°F

## RF-STB – Smooth Bore Black Conductive PTFE Lined Hose with Braided Stainless Steel Cover



<b>TUBE:</b> Black Conductive PTFE	<b>Part Number</b>	<b>I.D.</b>	<b>O.D.</b>	<b>Working Pressure*</b>	<b>Minimum Bend Radius</b>
	04RFSTB	.250	.375	3000 psi	2.5"
<b>COVER:</b> Braided Stainless Steel	06RFSTB	.375	.520	2500 psi	3.5"
	08RFSTB	.500	.648	2000 psi	4.0"
<b>TEMPERATURE:</b> -100°F to 500°F	12RFSTB	.750	.910	1200 psi	7.5"
	16RFSTB	1.00	1.132	800 psi	12.0"
	24RFSTB	1.50	1.672	900 psi	14.0"

\*at 68°F

## RF-ST RF-STB

### Approvals

- 3A Sanitary
- USP Class VI
- FDA 21 CFR 17.1550

### Features

- Outer cover is stainless steel braid overwrap
- 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
- Unaffected by continuous flexing or vibration when used in accordance with minimum bend radius specifications
- Conductive black liner available
- Autoclavable
- Available in bulk or fabricated assemblies

### Applications

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

### Connections

- Broad variety of fittings in 316L Stainless Steel
- PTFE encapsulated
- Electropolished Stainless Steel fittings available
- Crimped fittings available in other high quality alloys
- Available with etched date or customer part number on crimp collars



## RF-ST5 – Smooth Bore PTFE Lined Hose with Braided Stainless Steel Outer and Silicone Cover



<b>TUBE:</b> Seamless White PTFE	<b>Part Number</b>	<b>I.D.</b>	<b>O.D.</b>	<b>Working Pressure*</b>	<b>Minimum Bend Radius</b>
	04RFST5	.250	.375	3000 psi	2.5"
<b>COVER:</b> Braided Stainless Steel and Silicone Outer Cover	06RFST5	.375	.520	2500 psi	3.5"
	08RFST5	.500	.648	2000 psi	4.0"
	12RFST5	.750	.910	1200 psi	7.5"
<b>TEMPERATURE:</b> -100°F to 500°F	16RFST5	1.00	1.13	800 psi	12.0"
	24RFST5	1.50	1.67	900 psi	14.0"

\*at 68°F

## RF-ST5B – Smooth Bore Black Conductive PTFE Lined Hose with Braided Stainless Steel Outer and Silicone Cover



<b>TUBE:</b> Black Conductive PTFE	<b>Part Number</b>	<b>I.D.</b>	<b>O.D.</b>	<b>Working Pressure*</b>	<b>Minimum Bend Radius</b>
	04RFSTB	.250	.375	3000 psi	2.5"
<b>COVER:</b> Braided Stainless Steel and Silicone Outer Cover	06RFSTB	.375	.520	2500 psi	3.5"
	08RFSTB	.500	.648	2000 psi	4.0"
	12RFSTB	.750	.910	1200 psi	7.5"
<b>TEMPERATURE:</b> -100°F to 500°F	16RFSTB	1.00	1.13	800 psi	12.0"
	24RFSTB	1.50	1.67	900 psi	14.0"

\*at 68°F

## RF-ST5 RF-ST5B

### Approvals

- 3A Sanitary
- USP Class VI
- FDA 21 CFR 17.1550

### Features

- Outer cover is stainless steel braid overwrap
- 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
- Unaffected by continuous flexing or vibration when used in accordance with minimum bend radius specifications
- Conductive black liner available
- Autoclavable
- Can be steam-cleaned
- Available in bulk or fabricated assemblies

### Applications

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

### Connections

- Broad variety of fittings in 316L Stainless Steel
- PTFE encapsulated
- Kynar®/PVDF and other non-metallic materials
- Electropolished Stainless Steel fittings available
- Crimped fittings available in other high quality alloys



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