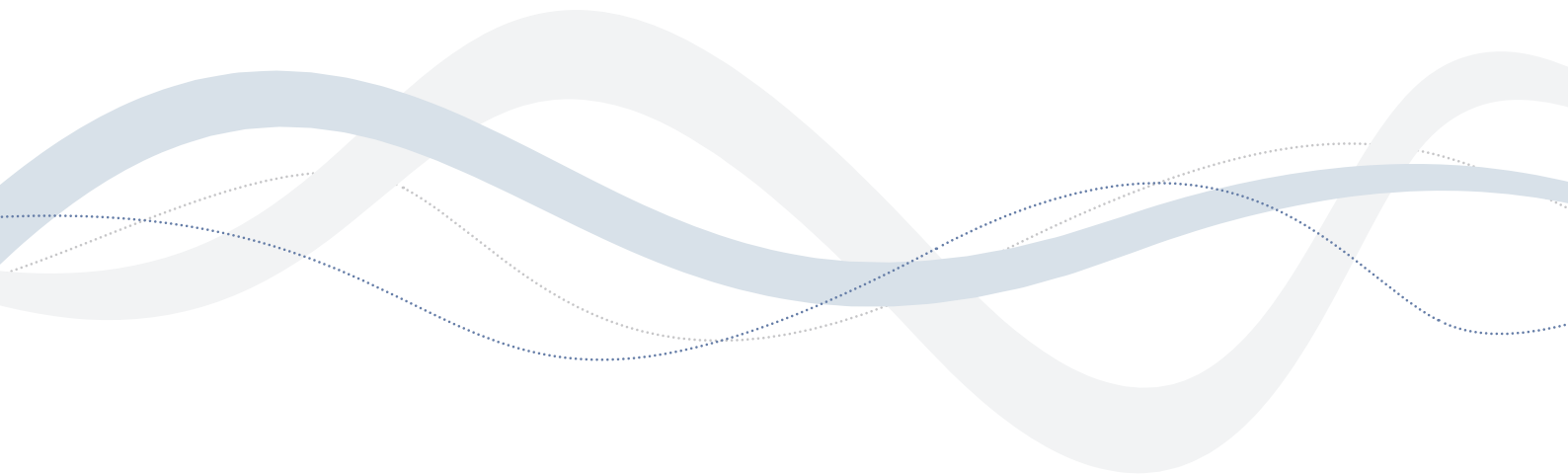


Hoses and Assemblies

Engineered products that meet the most stringent standards for purity in the Food and Pharmaindustries



Rubber Fab

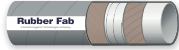






a Garlock Hygienic Technologies company

PRODUCT OVERVIEW



PHARMA HOSES

- » RFSV-EU
(Platinum Cured Silicone)  04
- » RFSB-EU
(Platinum Cured Silicone)  06
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(PFA Lined Hose)  08
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(FEP Lined Hose - High Pressure)  14


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- » RFFDAE-EU
(EPDM Rubber Lined Hose)  16
- » RFFDABOC-EU
(Butyl Rubber Lined Hose)  18
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(Butyl Rubber Lined Hose)  20
- » RFFDAC-EU
(Butyl Rubber Lined Hose)  22
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- » RFKMD-EU  30
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FITTINGS

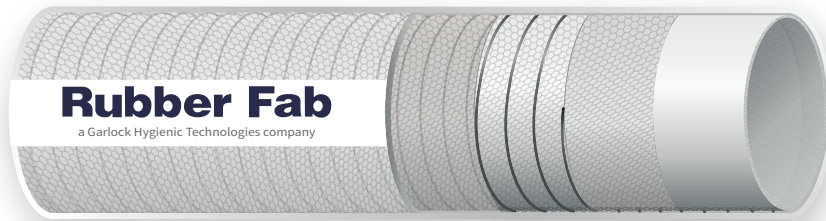
- » Standards, Hose Assemblies,
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VALUE ADDED SERVICES

- » Pressure Testing, Private Labeling, Laser-Engraving, Barcoding, Crimping, Sterilization, Autoclaving, Gamma-Irradiation  34

RFSV-EU

Platinum Cured Silicone Hose with Reinforcement
- Translucent



MAIN BENEFITS

- » Ultra-flexible platinum-cured silicone hose with non-stick and hydrophobic properties
- » Reinforced version suitable for process applications requiring a tight bending radius and a high vacuum resistance
- » Safe solution for use in aseptic environments and hygienic applications
- » Ultra-smooth surface
- » Sterilizable by autoclave, CIP, SIP and gamma radiation processes
- » Will not impart taste or odor
- » Cleanroom manufactured
- » Non-toxic
- » Non-pyrogenic
- » Lot and batch traceable
- » Resists temperature extremes and ozone

APPLICATION

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

TUBE

- » Platinum-cured Silicone, translucent

REINFORCEMENT

- » High strength polyester plies
- » Embedded stainless steel helix wire AISI 302

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: +1/-0.5mm - Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFSV-EU-01	10	22	6,0	10	30	-0,9	51	0,38	30
RFSV-EU-02	13	25	6,0	10	30	-0,9	53	0,46	30
RFSV-EU-03	16	29	6,5	10	30	-0,9	61	0,54	30
RFSV-EU-04	19	32	6,5	10	30	-0,9	67	0,63	30
RFSV-EU-05	25	38	6,5	10	30	-0,9	87	0,76	30
RFSV-EU-06	32	45	6,5	10	30	-0,9	111	0,93	30
RFSV-EU-07	38	52	7,0	10	30	-0,9	131	1,26	30
RFSV-EU-08	40	54	7,0	10	30	-0,9	131	1,30	30
RFSV-EU-09	50	64	7,0	10	30	-0,9	202	1,64	20
RFSV-EU-10	51	65	7,0	10	30	-0,9	202	1,66	20
RFSV-EU-11	63,5	77,5	7,0	8	24	-0,9	248	2,18	20
RFSV-EU-12	65	79	7,0	8	24	-0,9	253	2,24	20
RFSV-EU-13	75	89	7,0	8	24	-0,9	354	2,73	20
RFSV-EU-14	76	90	7,0	8	24	-0,9	354	2,75	20
RFSV-EU-15	100	114	7,0	7	21	-0,9	505	3,66	20
RFSV-EU-16	102	116	7,0	7	21	-0,9	505	3,69	20

*At a temperature of +100°C the Working Pressure decreases by 20%
Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 3 times working pressure



TEMPERATURE RANGE

- » From -60°C to +200°C



STERILIZATION

- » Sterilization with steam up to +135°C at 3.5 bar for max. 90 minutes
- » Sterilization with hot air up to +200°C for max. 30 minutes
- » Sterilizations repeated at intervals of less than 1 hour may seriously affect the mechanical features of the hose

STANDARDS

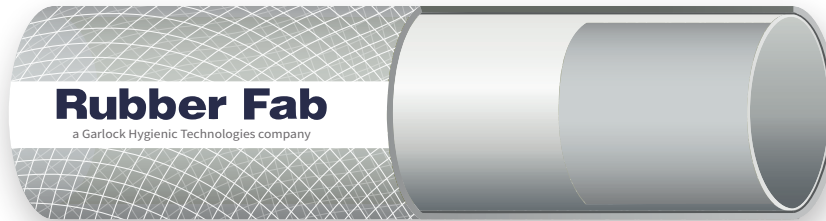
- » US Pharmacopoeia Class VI <87> <88>
- » EC 1935/2004 and 2023/2006/EC (GMP)
- » 3A 18-03
- » FDA 21CFR177.2600
- » BfR
- » Biocompatibility according to ISO 10993-4, -10, -11
- » E.P. 3.1.9. (European Pharmacopoeia)
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines an materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers

USP CLASS VI EC 1935/2004 2023/2006 EC 3A
FDA BfR ISO 10993 E.P.3.1.9. ADI FREE REACH
PLASTIZICERS FREE

RFSB-EU

Platinum Cured Silicone Hose with Braid Reinforcement

- Light Color



MAIN BENEFITS

- » Ultra flexible platinum-cured silicone hose with non-stick and hydrophobic properties
- » Ultra smooth surface reduces risk of bacterial growth on hose surfaces and allows easy cleaning of hose
- » Translucent color allows to check inside the hose and the process-fluid.
- » Sterilizable by autoclave, CIP, SIP and gamma radiation processes
- » Will not impart taste or odor
- » Cleanroom manufactured
- » Non-toxic
- » Non-pyrogenic
- » Lot and batch traceable
- » Resists temperature extremes and ozone

TUBE

- » Platinum-cured Silicone

REINFORCEMENT

- » Braid of synthetic cord

APPLICATION

- » Delivery hose, not recommended for suction 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

COVER

- » Platinum-cured Silicone

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2 - Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFSB-EU-01	3,18	9,81	-	15	45	-	30	70	25
RFSB-EU-02	4,72	11,35	-	15	45	-	35	106	25
RFSB-EU-03	6,35	13,03	-	15	45	-	40	124	25
RFSB-EU-04	7,93	14,61	-	12	36	-	45	147	25
RFSB-EU-05	9,52	16,32	-	12	36	-	50	175	25
RFSB-EU-06	12,70	20,10	-	10	30	-	65	237	25
RFSB-EU-07	15,87	24,37	-	8	24	-	75	330	25
RFSB-EU-08	19,05	27,91	-	8	24	-	80	415	25
RFSB-EU-09	22,20	31,12	-	5	15	-	100	455	25
RFSB-EU-10	25,40	34,50	-	5	15	-	120	513	10
RFSB-EU-11	31,75	40,80	-	4	12	-	150	617	10

*At a temperature of +100°C the Working Pressure decreases by 20%
Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand.



SAFETY FACTOR

- » ≥ 3 times working pressure



TEMPERATURE RANGE

- » From -60°C to +180°C depending on the fluids conveyed



STERILIZATION

- » Sterilization with steam up to +135°C or, as an alternative, cobalt or argon radiations

STANDARDS

- » US Pharmacopoeia Class VI <87> <88>
- » EC 1935/2004 and 2023/2006/EC (GMP)
- » 3A 18-03
- » FDA 21CFR177.2600
- » BfR
- » Biocompatibility according to ISO 10993-4, -5, -11
- » E.P. 3.1.9. (European Pharmacopoeia)
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers

USP CLASS VI EC 1935/2004 2023/2006 EC 3A

FDA BfR ISO 10993 E.P.3.1.9. ADI FREE REACH

PLASTIZICERS FREE

RFPFA-EU

Smoothbore PFA Lined Hose with Synthetic Plies and embedded stainless-steel helix Wire
- Translucent Silicone Cover



MAIN BENEFITS

- » Extremely flexible hygienic hose with non-stick and hydrophobic properties and platinum-cured silicone cover
- » Ultra-smooth PFA tube ensures excellent hygienic design with superior cleanability and reduced risk of microbial accumulation
- » Excellent Chemical Resistance with inert PFA liner material
- » High thermal stability, even with high and low temperature cycles, resistant to repetitive dynamic cycling
- » Excellent flex performance (resistance to repeated bending cycles in accordance with ASTM D 2176)
- » Autoclavable
- » Free of Plasticizers, Phthalates and Nitrosamines
- » Will not impart taste or odor
- » Specifically engineered to combine the technical benefits of a PFA fluoropolymer with the elasticity and heat resistance of silicone.

TUBE

- » PFA (Perfluoroalkoxy), fully fluorinated, white colour, mirror-smooth.

REINFORCEMENT

- » High strength plies of synthetic cord and embedded steel helix wire AISI 302

APPLICATION

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

COVER

- » White silicone, ultra-smooth and glossy finish
- » Can be easily cleaned with any mild detergent
- » Special finish with a very low coefficient of friction

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: $\pm 0,8$ - Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius (Static)	Minimum Bending Radius (Dynamic)	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	mm	kg/m	M
RFPFA-EU-01	13	25	6,0	10	30	-0,9	45	60	0,42	20
RFPFA-EU-02	16	28	6,0	10	30	-0,9	55	75	0,57	20
RFPFA-EU-03	19	31	6,0	10	30	-0,9	65	90	0,65	30
RFPFA-EU-04	25	37	6,0	10	30	-0,9	85	140	0,80	30
RFPFA-EU-05	32	44	6,0	10	30	-0,9	120	200	1,00	30
RFPFA-EU-06	38	51	6,5	10	30	-0,9	140	250	1,27	30
RFPFA-EU-07	51	67	8,0	10	30	-0,9	180	300	1,98	30
RFPFA-EU-08	63,5	79,5	8,0	5	15	-0,9	320	380	2,53	20
RFPFA-EU-09	76	92	8,0	5	15	-0,9	380	460	3,62	20
RFPFA-EU-10	100	118	9,0	3	9	-0,9	500	600	5,02	20

*At a temperature of +100°C the Working Pressure decreases by 20%
Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand.



SAFETY FACTOR

- » ≥ 3 times working pressure



TEMPERATURE RANGE

- » From -30°C to +150°C depending on the fluids conveyed



STERILIZATION

- » Sterilization with steam up to +135°C, in an open circuit, for max 30 minutes
- » For other cleaning, disinfection and sterilization processes with steam, please contact our Sales Department

STANDARDS

- » US Pharmacopoeia Class VI <87> <88>
- » EC 1935/2004 and 2023/2006/EC (GMP)
- » EU 10/2011
- » 3A 20-27
- » Cover: 3A 18-03
- » FDA 21CFR177.1500
- » Cover: FDA 21CFR177.2600
- » Cover: BfR
- » Tube and Cover: Biocompatibility according to ISO 10993-4, -5, -10, -11
- » ICH Q3D
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers

USP CLASS VI EC 1935/2004 2023/2006 EC

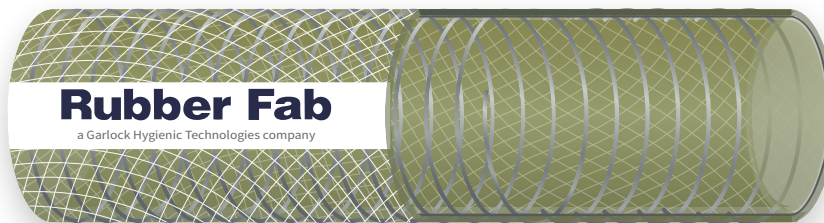
EU 10/2011 3A FDA BfR ISO 10993

ICH Q3D ADI FREE REACH

PLASTIZICERS FREE

RFTAS-EU

Antistatic Technopolymer Hose reinforced with synthetic Plies
- Clear



MAIN BENEFITS

- » The smooth and compact inner surface of the hose allows easy product-flow and efficient cleaning operations
- » Excellent resistance to abrasion
- » Innovative and fully see-through construction for easy visual inspection
- » Light and easy to handle
- » Will not impart taste or odor
- » Free from phthalates, plasticizers and animal derived ingredients, thus reducing the risk of bacterial growth and contamination of the product conveyed
- » Plasticizers and nitrosamines free hose

TUBE

- » TECHNOPOLYMER, fully see-through, odourless and tasteless, mirror- smooth
- » Abrasion loss: < 36 mm³ according to DIN 53516
- » Resistance: R<109 Ω

REINFORCEMENT

- » High strength plies of synthetic cord
- » Stainless steel helix wire AISI 302

APPLICATION

- » Suction and delivery hose, specifically designed for conveying air mixed with powders
- » Used in the pharmaceutical and food industry
- » Tube designed and developed to ensure dissipation of electrostatic charges, with resistance R<109 Ω

COVER

- » TECHNOPOLYMER, fully see-through, smooth, glossy finish
- » Resistant to abrasion and ozone

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2- Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFTAS-EU-01	19	27	4,0	6	18	-0,9	120	0,37	20
RFTAS-EU-02	25	33	4,0	6	18	-0,9	152	0,38	20
RFTAS-EU-03	32	40	4,0	6	18	-0,9	190	0,82	20
RFTAS-EU-04	38	46	4,0	6	18	-0,9	232	0,94	20
RFTAS-EU-05	40	48	4,0	6	18	-0,9	232	0,96	20
RFTAS-EU-06	50	58,5	4,25	5	15	-0,9	303	1,00	20
RFTAS-EU-07	51	59,5	4,25	5	15	-0,9	303	1,30	20
RFTAS-EU-08	63,5	72	4,25	4	12	-0,9	404	1,89	10
RFTAS-EU-09	65	74	4,5	4	12	-0,9	404	1,95	10
RFTAS-EU-10	75	84	4,5	4	12	-0,9	495	2,27	10
RFTAS-EU-11	76	85	4,5	4	12	-0,8	495	2,29	10
RFTAS-EU-12	80	89	4,5	4	12	-0,8	500	2,40	10
RFTAS-EU-13	100	112	6,0	3	9	-0,8	705	3,40	10
RFTAS-EU-14	102	114	6,0	3	9	-0,8	705	3,45	10

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 3 times working pressure

TEMPERATURE RANGE



- » From +10°C to +85°C
- » Cleaning with water (up to +100°C without pressure) mixed with a normal mild cleaning detergent

STANDARDS

- » US Pharmacopoeia Class VI <87>
- » EC 1935/2004 and 2023/2006/EC (GMP)
- » FDA 21CFR177.2600
- » EU 10/2011
- » Biocompatibility according to ISO 10993-4, -5, -10, -11
- » DM 21/03/73
- » TRGS 727
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers

USP CLASS VI | EC 1935/2004 | 2023/2006 EC

FDA | EU 10/2011 | ISO 10993 | DM 21/03/73

TRGS 727 | ADI FREE | REACH | PLASTIZICERS FREE

RFRT-EU

FEP Lined Hose reinforced with synthetic textile Plies and embedded steel helix Wire
- Green EPDM Cover



MAIN BENEFITS

- » FEP liner allows safe transfer of fluids with organoleptic-sensitive features such as liqueurs, distillates and perfumes
- » The ultra-smooth FEP liner provides outstanding anti-stick properties and ensures efficient cleaning operations of the inner surface
- » The excellent hygienic design allows the effective prevention of microbial accumulation potential cross contamination
- » Double steel wire helix for improved bend radius and shape retention
- » Inert and resistant to most chemicals and reagents
- » Cleanable by CIP, COP methods

APPLICATION

- » Suitable for the transfer of pharma-cosmetic and high purity products as well as alcohol, alkaline and acid fluids, polar and apolar solvents and other aggressive chemicals
- » Suitable for both suction and delivery services
- » Pharmaceutical processing
- » Water, acid and chemical transfer
- » Hot CIP solutions
- » Distillery piping systems
- » Electronic industries
- » Fluid transfer
- » Food and beverage processing
- » Load cells
- » Cosmetic

TUBE

- » FEP (Fluorinated Ethylene Propylene) liner, clear colour, smooth

COVER

- » Synthetic rubber, green colour, abrasion, ozone and weather resistant, cloth finish

REINFORCEMENT

- » Synthetic textile plies and embedded steel wire helix
- » Built-in copper wires

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2- Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFRT-EU-01	19	31,0	6,0	10	40	-0,9	81	0,69	30
RFRT-EU-02	25	37,0	6,0	10	40	-0,9	101	0,81	30
RFRT-EU-03	32	45,0	6,5	10	40	-0,9	126	1,11	30
RFRT-EU-04	38	51,0	6,5	10	40	-0,9	152	1,30	30
RFRT-EU-05	51	66,0	7,5	10	40	-0,9	202	2,02	30
RFRT-EU-06	63,5	79,5	8,0	10	40	-0,9	253	2,71	20
RFRT-EU-07	76	92,0	8,0	10	40	-0,9	303	3,21	20
RFRT-EU-08	100	116,0	8,0	10	40	-0,9	404	4,89	20

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 4 times working pressure



TEMPERATURE RANGE

- » From -30°C to +130°C depending on media conveyed
- » Peaks at +150°C for sterilizations for 30 minutes max

STANDARDS

- » US Pharmacopoeia Class VI <87> <88>
- » EC 1935/2004 and 2023/2006/EC (GMP)
- » EU 10/2011
- » 3A 20-27
- » FDA 21CFR177.1500
- » E.P. 3.1.9. (European Pharmacopoeia)
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)

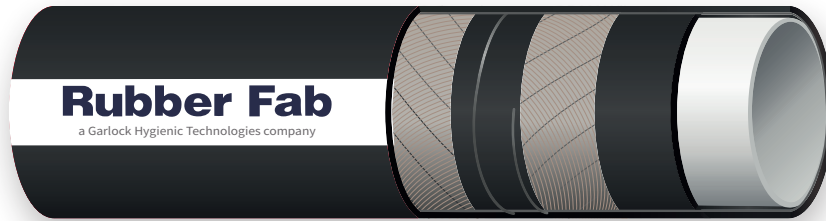
USP CLASS VI EC 1935/2004 2023/2006 EC

EU 10/2011 3A FDA E.P.3.1.9.

ADI FREE REACH

RFRTHP-EU

FEP Lined Hose reinforced for high pressure applications with synthetic textile Plies and steel helix Wire
- Black EPDM Cover



MAIN BENEFITS

- » Liner is smooth FEP, bonded for full vacuum service
- » EPDM Rubber outer cover for multiple textile plies along the entire length
- » Double steel wire helix for improved bend radius and shape retention
- » Ultra-smooth and non-stick contact surface allows easily cleanability and therefore prevents contamination of product
- » Inert and resistant to most chemicals and reagents
- » Cleanable by CIP, COP methods

APPLICATION

- » Universal suction and delivery hose for conveying alcohols, acids, alkaline products, polar and non-polar solvents and other aggressive chemicals
- » The chemical inertness and the high degree of impermeability of FEP liner allows conveying a wide range of aggressive chemicals
- » Pharmaceutical processing
- » Water, acid and chemical transfer
- » Hot CIP solutions
- » Distillery piping systems
- » Electronic industries
- » Fluid transfer
- » Food and beverage processing
- » Load cells
- » Cosmetics

TUBE

- » FEP (Fluorinated Ethylene Propylene) liner, light colour, smooth

COVER

- » Synthetic rubber, black colour, antistatic ($R < 106 \Omega$), abrasion and ageing resistant, smooth, cloth finish

REINFORCEMENT

- » Synthetic textile plies
- » Embedded steel wire helix

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2- Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFRTHP-EU-01	19	31	6,0	16	64	-0,9	126	0,76	30
RFRTHP-EU-02	25	37	6,0	16	64	-0,9	152	0,95	30
RFRTHP-EU-03	32	44	6,0	16	64	-0,9	177	1,11	30
RFRTHP-EU-04	38	51	6,5	16	64	-0,9	227	1,52	30
RFRTHP-EU-05	51	67	8,0	16	64	-0,9	278	2,42	30
RFRTHP-EU-06	63,5	79,5	8,0	16	64	-0,9	302	2,98	20
RFRTHP-EU-07	76	92	8,0	16	64	-0,9	353	3,64	20
RFRTHP-EU-08	100	116	8,0	16	64	-0,9	404	4,89	20

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 4 times working pressure up to
- » ≥ 3 times working pressure above



TEMPERATURE RANGE

- » In accordance with EN 12115:2011
- » Peaks up to +130°C for sterilizations for max. 30 minutes

ELECTRICAL PROPERTIES

- » Identification symbol: Ω
- » Model with copper wires available upon request; identification symbol: M

STANDARDS

- » US Pharmacopoeia Class VI <87> <88>
- » EC 1935/2004 and 2023/2006/EC (GMP)
- » EU 10/2011
- » 3A 20-27
- » FDA 21CFR177.1500
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » In accordance with regulation EN 12115:2011

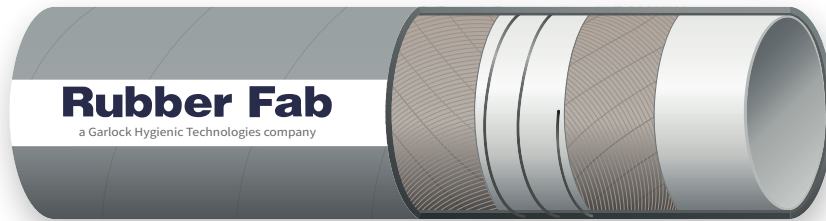
USP CLASS VI EC 1935/2004 2023/2006 EC

EU 10/2011 3A FDA ADI FREE REACH

EN 12115:2011

RFFDAE-EU

EPDM rubber Lined Hose reinforced with synthetic cord Plies and embedded steel helix Wire
- Gray synthetic Rubber Cover



MAIN BENEFITS

- » The heat resistant structure is the perfect solution for high temperature applications
- » The inner liner makes it highly resistant to acids and bases with medium concentration
- » Ideal for long lasting sterilization processes
- » Chemical and ozone resistant
- » Abrasion resistant
- » Ultra smooth inner bore
- » Will not impart taste or odor
- » Full vacuum
- » Static grounding available

TUBE

- » EPDM rubber, light colour, mirror smooth

REINFORCEMENT

- » Heat resistant plies of synthetic cord
- » Embedded steel helix wire

APPLICATION

- » Suitable for conveying a wide range of liquid foodstuffs
- » Ideal hose for wine, fruit juice, tomato juice, beer, drinking water and soft drinks
- » Sanitary suction and discharge
- » Hot air blower service for food applications
- » Dairy Transfer
- » CIP pharmaceutical applications
- » Non-fatty and non-only food products

COVER

- » Synthetic rubber, blue colour, smooth, abrasion and weather resistant, cloth finish

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2- Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFFDAE10-EU-01	13	25	6,0	10	30	-0,9	71	0,49	40
RFFDAE10-EU-02	19	31	6,0	10	30	-0,9	101	0,63	40
RFFDAE10-EU-03	25	37	6,0	10	30	-0,9	142	0,81	40
RFFDAE10-EU-04	32	44	6,0	10	30	-0,9	182	0,97	40
RFFDAE10-EU-05	38	51	6,5	10	30	-0,9	232	1,38	40
RFFDAE10-EU-06	50	66	8,0	10	30	-0,9	293	1,82	40
RFFDAE10-EU-07	65	81	8,0	10	30	-0,9	394	2,67	40
RFFDAE10-EU-08	75	91	8,0	10	30	-0,9	455	3,13	40
RFFDAE10-EU-09	100	118	9,0	10	30	-0,9	606	4,84	40
RFFDAE15-EU-01	13	25	6,0	15	45	-0,9	81	0,48	40
RFFDAE15-EU-02	19	32	6,0	15	45	-0,9	116	0,63	40
RFFDAE15-EU-03	25	38	6,5	15	45	-0,9	141	0,83	40
RFFDAE15-EU-04	32	45	6,5	15	45	-0,9	182	1,06	40
RFFDAE15-EU-05	38	52	7,0	15	45	-0,9	232	1,37	40
RFFDAE15-EU-06	40	54	7,0	15	45	-0,9	232	1,44	40
RFFDAE15-EU-07	50	66	8,0	15	45	-0,9	293	2,02	40
RFFDAE15-EU-08	51	67	8,0	15	45	-0,9	293	2,07	40
RFFDAE15-EU-09	63,5	79,5	8,0	15	45	-0,9	384	2,67	40
RFFDAE15-EU-10	65	81	8,0	15	45	-0,9	394	2,73	40
RFFDAE15-EU-11	75	92	8,5	15	45	-0,9	455	3,38	40
RFFDAE15-EU-12	76	93	8,5	15	45	-0,9	455	3,44	40
RFFDAE15-EU-13	80	97	8,5	15	45	-0,9	485	3,61	40
RFFDAE15-EU-14	100	120	10,0	15	45	-0,9	605	5,30	40
RFFDAE15-EU-15	102	122	10,0	15	45	-0,9	605	5,40	40

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 3 times working pressure



TEMPERATURE RANGE

- » From -40°C to +120°C



STERILIZATION

- » Sterilization up to +150°C for max. 30 minutes
- » In case of long lasting sterilizations we suggest to use the model with vulcanized couplings at the ends

STANDARDS

- » EC 1935/2004 and 2023/2006/EC (GMP)
- » 3A 18-03
- » FDA 21CFR177.2600
- » BfR
- » DM 21/03/73
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizers

[EC 1935/2004](#)
[2023/2006 EC](#)
[3A](#)
[FDA](#)
[BfR](#)
[DM 21/03/73](#)
[ADI FREE](#)
[REACH](#)
[PLASTIZERS FREE](#)

RFFDABOC-EU

BIIR rubber Lined Hose reinforced with synthetic cord Plies
- Red synthetic Rubber Cover



MAIN BENEFITS

- » Extremely flexible BIIR rubber lined hose with low friction cover
- » The RFFDABOC-EU hose is bromobutyl lined, giving the hose higher operating temperatures and reduced permeability
- » Non marking when dragged on floor
- » Highly abrasion resistant
- » Will not impart taste or odor
- » The special structure is free from plasticizers, phthalates and animal derived ingredients, thus reducing the risk of bacterial growth and contamination of the product conveyed
- » The very strong structure makes it perfect for loading and unloading operations in breweries
- » The composition of the cover ensures utmost resistance to aging

TUBE

- » BIIR rubber, light colour, food grade

REINFORCEMENT

- » Plies of synthetic cord

APPLICATION

- » Specifically designed to meet the demanding requirements of the beer processing industry
- » It is suitable for conveying high quality raw, pasteurized and organic beer, alcoholic beverages, soft drinks and wine
- » Delivery and slight suction hose

COVER

- » CR rubber, red colour, resistant to abrasion, ozone and weather, smooth, cloth finish

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2- Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFFDABOC-EU-01	13	23	5	16	48	-0,6	81	0,38	40
RFFDABOC-EU-02	19	29	5	16	48	-0,6	121	0,49	40
RFFDABOC-EU-03	25	37	6	16	48	-0,6	152	0,75	40
RFFDABOC-EU-04	32	48	8	16	48	-0,6	202	1,40	40
RFFDABOC-EU-05	38	56	9	16	48	-0,6	243	1,87	40
RFFDABOC-EU-06	40	60	10	16	48	-0,6	243	2,12	40
RFFDABOC-EU-07	50	70	10	16	48	-0,6	303	2,78	40
RFFDABOC-EU-08	51	71	10	16	48	-0,6	303	2,83	40
RFFDABOC-EU-09	63,5	87,5	12	16	48	-0,5	394	3,94	40
RFFDABOC-EU-10	65	89	12	16	48	-0,5	394	4,04	40
RFFDABOC-EU-11	75	105	15	16	48	-0,4	455	5,76	40
RFFDABOC-EU-12	76	106	15	16	48	-0,4	455	5,80	40
RFFDABOC-EU-13	80	110	15	16	48	-0,4	485	5,95	40
RFFDABOC-EU-14	100	130	15	16	48	-0,4	605	7,00	40
RFFDABOC-EU-15	102	132	15	16	48	-0,4	605	7,05	40

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 3 times working pressure above I.D. 75 mm



TEMPERATURE RANGE

- » From - 40°C to +130°C



STERILIZATION

- » Sterilization up to +130°C for max. 30 minutes
- » In case of long-lasting sterilizations we suggest to use the model with vulcanized couplings at the ends

STANDARDS

- » EC 1935/2004 and 2023/2006/EC (GMP)
- » 3A 18-03
- » FDA 21CFR177.2600
- » DM 21/03/73
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers
- » Hygienically validated by TUM (Technical University of Munich)

EC 1935/2004 2023/2006 EC 3A FDA

DM 21/03/73 ADI FREE REACH PLASTIZICERS FREE

TUM APPROVED

RFFDABR-EU

BIIR rubber Lined Hose reinforced with synthetic cord Plies and embedded steel helix Wire
- Red synthetic Rubber Cover



MAIN BENEFITS

- » Ultra-smooth inner bore reducing the risk of bacterial growth and contamination of the product conveyed
- » The special reinforced structure makes the hose strong and resistant, even for heavy-duty applications
- » The composition of the cover ensures utmost resistance to aging
- » Suitable for full vacuum service
- » Abrasion resistant cover
- » Chemical and ozone resistant
- » Will not impart taste or odor
- » Static grounding available

TUBE

- » BIIR rubber light colour, food grade, mirror smooth

REINFORCEMENT

- » Plies of synthetic cord
- » Embedded steel helix wire

APPLICATION

- » Specifically designed to meet the demanding requirements of the beer processing industry
- » It is suitable for conveying high quality raw, pasteurized and organic beer, alcoholic beverages, soft drinks and wine
- » Oily food applications
- » Potable Water
- » Sanitary suction and discharge
- » CIP pharmaceutical applications

COVER

- » Rubber, red colour, resistant to abrasion, ozone and weather, smooth, cloth finish

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2-Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFFDABR-EU-01	13	25	6,0	16	48	-0,9	66	0,51	40
RFFDABR-EU-02	19	32	6,5	16	48	-0,9	96	0,68	40
RFFDABR-EU-03	25	38	6,5	16	48	-0,9	126	0,86	40
RFFDABR-EU-04	32	46	7,0	16	48	-0,9	162	1,21	40
RFFDABR-EU-05	38	52	7,0	16	48	-0,9	192	1,52	40
RFFDABR-EU-06	40	54	7,0	16	48	-0,9	202	1,55	40
RFFDABR-EU-07	50	66	8,0	16	48	-0,9	293	2,31	40
RFFDABR-EU-08	51	67	8,0	16	48	-0,9	293	2,38	40
RFFDABR-EU-09	63,5	81,5	9,0	16	48	-0,9	384	3,18	40
RFFDABR-EU-10	65	84	9,5	16	48	-0,9	394	3,28	40
RFFDABR-EU-11	75	95	10,0	16	48	-0,9	455	3,89	40
RFFDABR-EU-12	76	96	10,0	16	48	-0,9	455	3,94	40
RFFDABR-EU-13	80	100	10,0	16	48	-0,9	485	4,50	40
RFFDABR-EU-14	100	121	10,5	16	48	-0,9	606	5,66	40
RFFDABR-EU-15	102	123	10,5	16	48	-0,9	606	5,75	40

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 3 times working pressure



TEMPERATURE RANGE

- » From -40°C to +120°C



STERILIZATION

- » Sterilization up to +130°C for max. 30 minutes
- » In case of long lasting sterilizations we suggest to use the model with vulcanized couplings at the ends

STANDARDS

- » EC 1935/2004 and 2023/2006/EC (GMP)
- » 3A 18-03
- » FDA 21CFR177.2600
- » DM 21/03/73
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers
- » Hygienically validated by TUM (Technical University of Munich)

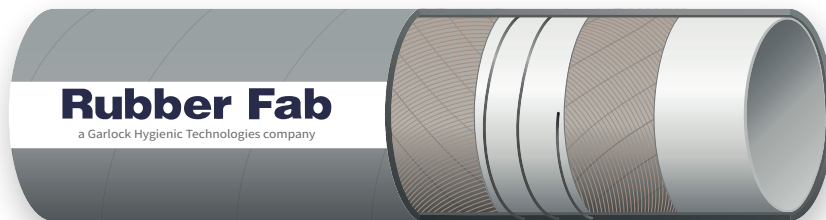
EC 1935/2004 2023/2006 EC 3A FDA

DM 21/03/73 ADI FREE REACH PLASTIZICERS FREE

TUM APPROVED

RFFDAC-EU

BIIR rubber Lined Hose reinforced with synthetic cord Plies and embedded steel helix Wire
- Gray EPDM Cover



MAIN BENEFITS

- » Ultra smooth inner bore reducing the risk of bacterial growth and contamination of the product conveyed
- » The composition of the hose cover ensures excellent resistance to aging
- » Full vacuum
- » Abrasion resistant
- » Chemical and ozone resistant
- » Will not impart taste or odor
- » Static grounding available

TUBE

- » BIIR rubber, light colour, food quality, mirror smooth

REINFORCEMENT

- » Plies of synthetic cord
- » Embedded steel helix wire

APPLICATION

- » Food quality hose designed for conveying high quality beverages of beer, cider and wine
- » Dairy and milk products
- » Juice and soft drink transfer
- » Pharmaceutical
- » Cosmetics
- » Suction and delivery hose
- » Non-fatty or non-oily foods

COVER

- » EPDM based rubber, red colour, resistant to abrasion and ozone, weatherproof, smooth (cloth finish)

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2- Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFFDAC-EU-01	19	31	6,0	10	30	-0,9	81	0,61	40
RFFDAC-EU-02	25	37	6,0	10	30	-0,9	121	0,75	40
RFFDAC-EU-03	25	38	6,5	10	30	-0,9	121	0,83	40
RFFDAC-EU-04	32	44	6,0	10	30	-0,9	151	0,91	40
RFFDAC-EU-05	32	45	6,5	10	30	-0,9	151	1,01	40
RFFDAC-EU-06	38	51	6,5	10	30	-0,9	202	1,26	40
RFFDAC-EU-07	38	52	7,0	10	30	-0,9	202	1,38	40
RFFDAC-EU-08	50	66	8,0	10	30	-0,9	253	1,97	40
RFFDAC-EU-09	51	66	7,5	10	30	-0,9	253	1,82	40
RFFDAC-EU-10	63,5	79,5	8,0	10	30	-0,9	364	2,63	40
RFFDAC-EU-11	63,5	80,5	8,5	10	30	-0,9	364	2,73	40
RFFDAC-EU-12	75	91	8,0	10	30	-0,9	455	3,21	40
RFFDAC-EU-13	76	92	8,0	10	30	-0,9	455	3,26	40
RFFDAC-EU-14	100	118	9,0	10	30	-0,9	605	4,65	40
RFFDAC-EU-15	102	120	9,0	10	30	-0,9	605	4,07	40

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 3 times working pressure



TEMPERATURE RANGE

- » From -40°C to +120°C



STERILIZATION

- » Sterilization up to +130°C for max. 30 minutes
- » For longer sterilizations you should use the version with vulcanized fittings at the ends

STANDARDS

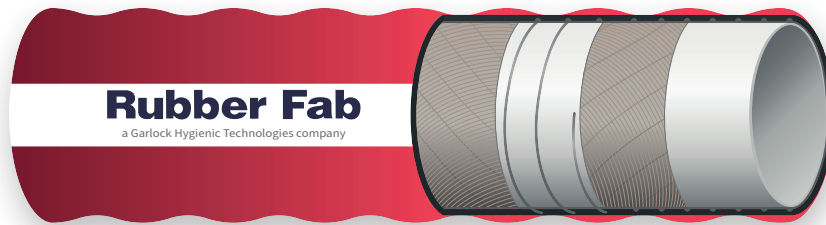
- » EC 1935/2004 and 2023/2006/EC (GMP)
- » 3A 18-03
- » FDA 21CFR177.2600
- » DM 21/03/73
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers

EC 1935/2004 2023/2006 EC 3A FDA

DM 21/03/73 ADI FREE REACH PLASTIZICERS FREE

RFFDAEOC-EU

BIIR rubber Lined Hose reinforced with synthetic cord Plies and embedded steel helix Wire
- Red Low Friction synthetic Rubber Cover



MAIN BENEFITS

- » Chemical resistance of the hose to contact with a wide range of products used for cleaning and disinfection (CIP)
- » Cover is abrasion, oil and chemical resistant
- » Smooth glossy cover resists dirt and mold
- » Lightweight and Flexible
- » Low drag resistance
- » Ozone and fade resistance cover guards against premature aging
- » Easy to clean
- » Static grounding available

TUBE

- » Special synthetic rubber, light colour, mirror-smooth

REINFORCEMENT

- » Plies of synthetic cord and embedded steel helix wires

APPLICATION

- » Designed for conveying premium quality alcoholic beverages
- » Suitable for soft drinks and fat-free liquid foodstuffs
- » Perfect solution in case the high impermeability of the tube to the product conveyed is an advantage for the use of the hose
- » Water transfer
- » Non-fatty and non-oily food products
- » Suction and discharge

COVER

- » Marble finish, black and white, patented, wide corrugation, high resistance to abrasion, ageing and short contact with chemicals and cleaning products
- » Special cover with a low coefficient of friction

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2- Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFFDAEOC-EU-01	25	37	6,0	10	30	-0,9	75	0,71	40
RFFDAEOC-EU-02	38	51	7,0	10	30	-0,9	120	1,22	40
RFFDAEOC-EU-03	51	66	8,0	10	30	-0,9	150	1,86	40
RFFDAEOC-EU-04	63,5	79,5	8,0	10	30	-0,9	195	2,35	40
RFFDAEOC-EU-05	76	92	8,0	10	30	-0,9	230	3,00	40
RFFDAEOC-EU-06	76	93	8,5	10	30	-0,9	230	3,10	40
RFFDAEOC-EU-07	102	119	8,5	10	30	-0,9	300	4,00	40

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 3 times working pressure



TEMPERATURE RANGE

- » From -40°C to +110°C depending on fluids conveyed



STERILIZATION

- » Sterilization up to +130°C for max. 30 minutes

STANDARDS

- » EC 1935/2004 and 2023/2006/EC (GMP)
- » 3A 18-03
- » FDA 21CFR177.2600
- » Biocompatibility according to ISO 10993-3, -4, -5, -10, -11
- » DM 21/03/73
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers

EC 1935/2004 2023/2006 EC 3A FDA

ISO 10993 DM 21/03/73 ADI FREE REACH

PLASTIZICERS FREE

RFFDA-EU

NBR rubber Lined Hose reinforced with synthetic cord Plies and embedded steel helix Wire
- Blue synthetic Rubber Cover



MAIN BENEFITS

- » The special structure reduces the risk of bacterial growth and contamination of the product conveyed
- » High-strength structure perfect for unloading operations of milk and milk products
- » The composition of the cover provides a good resistance to ageing
- » Ultra smooth inner bore
- » Full vacuum
- » Abrasion resistant cover
- » Chemical and ozone resistant
- » Will not impart taste or odor
- » Static grounding available

TUBE

- » NBR rubber, light colour, food quality, mirror smooth

REINFORCEMENT

- » Plies of synthetic cord
- » Embedded steel helix wire

APPLICATION

- » Rubber hose specifically designed to convey milk, milk products and fatty liquid foodstuffs
- » Suction and delivery hose
- » Oily food applications
- » Potable Water
- » Sanitary suction and discharge
- » Food and beverage transfer
- » CIP pharmaceutical applications

COVER

- » Marble finish, black and white, patented, wide corrugation, high resistance to abrasion, ageing and short contact with chemicals and cleaning products

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2- Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFFDA-EU-01	13	23	5,0	10	30	-0,9	51	0,38	40
RFFDA-EU-02	19	31	6,0	10	30	-0,9	81	0,70	40
RFFDA-EU-03	25	37	6,0	10	30	-0,9	121	0,86	40
RFFDA-EU-04	32	44	6,0	10	30	-0,9	152	1,05	40
RFFDA-EU-05	38	51	6,5	10	30	-0,9	202	1,29	40
RFFDA-EU-06	40	53	6,5	10	30	-0,9	202	1,43	40
RFFDA-EU-07	50	64	7,0	10	30	-0,9	253	1,97	40
RFFDA-EU-08	51	65	7,0	10	30	-0,9	268	2,07	40
RFFDA-EU-09	63,5	79,5	8,0	10	30	-0,9	349	2,85	40
RFFDA-EU-10	65	81	8,0	10	30	-0,9	364	2,96	40
RFFDA-EU-11	75	91	8,0	10	30	-0,9	455	3,13	40
RFFDA-EU-12	76	92	8,0	10	30	-0,9	460	3,20	40
RFFDA-EU-13	80	98	9,0	10	30	-0,9	485	3,99	40
RFFDA-EU-14	100	118	9,0	10	30	-0,9	605	5,25	40
RFFDA-EU-15	102	120	9,0	10	30	-0,9	615	5,35	40

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

» ≥ 3 times working pressure



TEMPERATURE RANGE

» From -20°C to +90°C



STERILIZATION

» Sterilization up to +130°C for max. 30 minutes

STANDARDS

- » EC 1935/2004 and 2023/2006/EC (GMP)
- » 3A 18-03
- » FDA 21CFR177.2600
- » BfR
- » DM 21/03/73
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers

EC 1935/2004 2023/2006 EC 3A FDA BfR
DM 21/03/73 ADI FREE REACH PLASTIZICERS FREE

RFFB-EU

NBR rubber Lined Hose reinforced with synthetic cord Plies and embedded synthetic helix Wire and crush-proof structure - Blue synthetic Rubber Cover



MAIN BENEFITS

- » The special crush-proof structure allows the hose to recover its shape
- » The hose provides a good resistance to usual cleaning and disinfection processes used in the food industry
- » Non-plasticized hose
- » Ultra smooth inner bore
- » Full vacuum
- » Abrasion resistant
- » Chemical and ozone resistant
- » Will not impart taste or odor

TUBE

- » NBR rubber, light colour, food quality, mirror smooth

REINFORCEMENT

- » Plies of synthetic cord
- » Embedded synthetic helix wire

APPLICATION

- » Ideal solution for dairy and food transfer and processing
- » Food and beverage transfer
- » Juice and soft drink transfer
- » Suitable for many dry bulk products
- » Pharmaceutical applications
- » Water based products

COVER

- » Synthetic rubber, blue colour, abrasion, ozone and weather resistant, smooth, cloth finish
- » It withstands accidental contact with animal and vegetable fats

TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2- Length: ISO 1307

Part Number	Inner Diameter	Outer Diameter	Wall Thickness	Working Pressure*	Burst Pressure	Vacuum	Minimum Bending Radius	Approximately Weight	Maximum Length
	mm	mm	mm	BAR	BAR	BAR	mm	kg/m	M
RFFB-EU-01	25	40	7,5	10	30	-0,9	110	0,95	40
RFFB-EU-02	32	47	7,5	10	30	-0,9	140	1,18	40
RFFB-EU-03	38	53	7,5	10	30	-0,8	180	1,34	40
RFFB-EU-04	51	66	7,5	10	30	-0,7	250	1,72	40
RFFB-EU-05	63,5	80,5	8,5	10	30	-0,7	315	2,27	40
RFFB-EU-06	76	94	9,0	10	30	-0,7	380	2,75	40

*Above technical data refer to application at room temperature (+20°C)
Other sizes are available on demand



SAFETY FACTOR

- » ≥ 3 times working pressure



TEMPERATURE RANGE

- » From -20°C to +90°C



STERILIZATION

- » Sterilization up to +130°C for max. 30 minutes

STANDARDS

- » EC 1935/2004 and 2023/2006/EC (GMP)
- » 3A 18-03
- » FDA 21CFR177.2600
- » BfR
- » DM 21/03/73
- » Free of Animal Derived Ingredients (ADI)
- » Free of phthalates, adipates, nitrosamines and materials subject to restrictions according to EC 1907/2006 (REACH)
- » Free of Plastizicers

EC 1935/2004 2023/2006 EC 3A FDA BfR
DM 21/03/73 ADI FREE REACH PLASTIZICERS FREE

RFKMD-EU

Sanitary PVDF Metal Detection Tube Assemblies



MAIN BENEFITS

- » 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 the Metal Detection Tube is minimizing product loss and costly downtime

TUBE

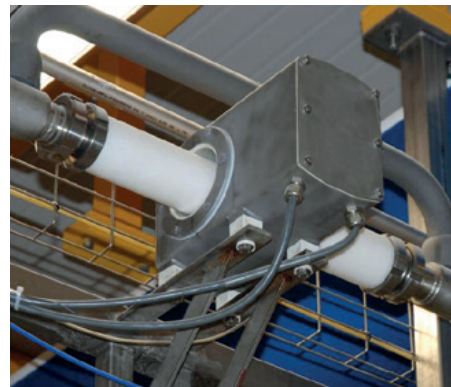
- » Rubber Fab's sanitary metal detection tube assemblies are manufactured using steam-cleanable USDA, FDA approved schedule 80 PVDF pipe
- » Suitable for system temperatures of -40°C to $+115^{\circ}\text{C}$, and 316L sanitary Tri-Clamp[®] connections

APPLICATION

- » 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



METAL DETECTION



TECHNICAL SPECIFICATIONS

Size tolerances: I.D.: ISO 1307 - Wall thickness: +1/-0.5mm - Length: ISO 1307

Part Number	Connection Size*	Inner Diameter	Outer Diameter	Working Pressure	Burst Pressure**
	mm	mm	mm	BAR	BAR
RFKMD-EU-01	1 ½"	35,0	50,5	90	30
RFKMD-EU-02	2"	47,7	64,0	55	18
RFKMD-EU-03	2 ½"	60,4	77,5	55	18
RFKMD-EU-04	3"	73,1	91,0	48	16
RFKMD-EU-05	4"	97,6	119,0	34	11

* Connection Size of Fittings not Tubing

** Burst pressure based on tensile strength: $B.P. = 2(T.S. \times Wall)/OD$ (at 20°C)

To calculate working pressure, divide burst pressure by a safety factor of 3

Pressure calculated for tubing only. Connections and ends must be calculated separately



SAFETY FACTOR

» ≥ 3 times working pressure



TEMPERATURE RANGE

» From -40°C to +115°C



STERILIZATION

» Sterilization up to +130°C for max. 30 minutes

STANDARDS

- » FDA
- » 3-A Sanitary Standards n.18-03-Class II
- » BfR



RFVD-EU

Compensator to avoid transmission of vibrations



The RFVD-EU compensator can be produced in a wide range of diameters and lengths. Get in touch with the sales department for more information

MAIN BENEFITS

- » The compensator is specifically developed for the delivery of high purity products in the pharmaceutical industry
- » Textile reinforcements are used to grant resistance to low pressure and compensation for volumetric expansion
- » The structure is free from metal parts, thus ensuring its primary function of preventing vibrations
- » The special finishing, totally smooth, is to ensure the prevention of cross contamination and bacterial growth

APPLICATION

- » RFVD-EU is a flexible connection that avoids transmission of vibrations
- » Platinum-cured silicone hose made in Cleanroom ISO 14644-1 Class 8
- » Autoclavable

TUBE

- » Silicone rubber, translucent, food and pharmaceutical quality, odourless and tasteless, smooth, glossy finish

REINFORCEMENT

- » Textile reinforcements



SAFETY FACTOR

- » ≥ 3 times working pressure



TEMPERATURE RANGE

- » From -60°C to $+200^{\circ}\text{C}$ depending on the fluids conveyed



STERILIZATION

- » The compensator is resistant to the most common sterilization processes (radiations, Eto, etc)

STANDARDS

- » US Pharmacopoeia Class VI <87> <88>
- » 3A 18-03
- » FDA 21CFR177.2600
- » BfR
- » Biocompatibility according to ISO 10993 -4, -5, -10, -11
- » ICH Q3D
- » E.P. 3.1.9. (European Pharmacopoeia)
- » Free of Animal Derived Ingredients (ADI)
- » Free of Plastizicers and Nitrosamines

USP CLASS VI 3A FDA BfR ISO 10993 ICH Q3D
E.P.3.1.9. ADI FREE PLASTIZICERS FREE
NITROSAMINES FREE

Fittings

Standards, Hose Assemblies, Benefits



FITTINGS AVAILABLE UPON REQUEST

- » Here at Rubber Fab we offer you a wide range of fittings in different standards and sizes. These fittings are available upon request

MAIN BENEFITS

- » With multiple sizes and configurations available, our inventory of stainless-steel Tri-Clamp® fittings is meant to serve the brewery, winery, and food and beverage industries with leak-proof connections
- » A hose fitting is either "attached" to the hose by a crimp, or internally expanded to make a more permanent assemble
- » 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
- » Fittings are available with Etched Part Number and Batch Number for better Traceability

FULLY ASSEMBLED WITH HOSE

- » If you need one or two suitable fittings for a hose, you can also obtain them from us. The fittings are then directly assembled to the hose, which makes it ready for use

STANDARDS AVAILABLE

- » Dairy Couplings according to DIN11851
- » Tri-Clamp® Couplings according to DIN EN 32676
 - » DIN 11850 / DIN 10357
 - » ISO 1127
 - » ISO 2852
 - » SMS 3019
 - » ASME BPE
 - » BS 4825-3

Value Added Services

Pressure Testing, Private Labeling, Laser Engraved Barcoding, Crimping

PRESSURE TESTING



Rubber Fab has the capability to pressure test hose and assemblies for you if needed. This service is available upon request.

PRIVATE LABELING



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

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.

CRIMPING



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.

STERILIZATION, AUTOCLAVING, GAMMA-IRRADIATION



Rubber Fab offers also Gamma Irradiation of the hoses as well as autoclaving and sterilization. These additional steps ensure that you can integrate the hoses directly into highly sensitive processes.



Rubber Fab

a Garlock Hygienic Technologies company



PSI Products GmbH
Ulrichstraße 25
72116 Mössingen / Germany
Office: +49 7473 3781 731
rubberfab.europe@rubberfab.com

rubberfab.com