



# Pharmaceutical Applications

Flexible Hoses & Tubings

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# Suction and Discharge Silicone Hose



## Applications :

Widely used in sanitary industry, such as food, beverages, cosmetics, medicine, pharmacy, intermediates, semi-finished products.

## Technical Description:

Structure: High purity platinum cured silicone with stainless steel helix reinforcement and 4 layers of polyester reinforcement

Color: Semitransparent

Temperature range : -60°C to +180°C (max 220°C)

## Standards:

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011

## TYPE PANACEA

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
PANACEA-0050	1/2"	12.7	25.5	10	150	40	450	0.90	60	0.35	10
PANACEA-0063	5/8"	16.0	27.0	10	150	40	450	0.90	70	0.46	10
PANACEA-0075	3/4"	19.0	31.0	10	150	40	450	0.90	85	0.52	10
PANACEA-0100	1"	25.0	37.0	10	150	40	450	0.90	110	0.78	10
PANACEA-0125	1-1/4"	31.8	44.2	10	150	40	450	0.90	140	1.10	10
PANACEA-0150	1-1/2"	38.0	50.0	10	150	40	450	0.90	180	1.38	10
PANACEA-0200	2"	50.0	63.0	10	150	40	450	0.90	250	1.90	10
PANACEA-0250	2-1/2"	63.0	75.0	7	100	28	400	0.68	280	2.80	6
PANACEA-0300	3"	76.0	89.0	4	60	16	240	0.68	390	3.50	6
PANACEA-0400	4"	102.0	115.0	3	45	12	180	0.68	480	4.90	6

# Suction and Discharge Silicone Hose Pro



## Applications :

Widely used in sanitary industry, such as food, beverages, cosmetics, medicine, pharmacy, intermediates, semi-finished products.

## Technical Description:

Structure: Pharmaceutical grade platinum-cured silicone with stainless steel helix reinforcement and 4 layers of polyester reinforcement

Color: Semitransparent

Temperature range : -60°C to +180°C (max 220°C)

## Standards:

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011, USP Class VI

## TYPE PANACEA PRO

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
PANACEA PRO-0050	1/2"	12.7	25.5	10	150	40	450	0.9	60	0.35	10
PANACEA PRO-0063	5/8"	16.0	27.0	10	150	40	450	0.9	70	0.46	10
PANACEA PRO-0075	3/4"	19.0	31.0	10	150	40	450	0.9	85	0.52	10
PANACEA PRO-0100	1"	25.0	37.0	10	150	40	450	0.9	110	0.78	10
PANACEA PRO-0125	1-1/4"	31.8	44.2	10	150	40	450	0.9	140	1.10	10
PANACEA PRO-0150	1-1/2"	38.0	50.0	10	150	40	450	0.9	180	1.38	10
PANACEA PRO-0200	2"	50.0	63.0	10	150	40	450	0.9	250	1.90	10
PANACEA PRO-0250	2-1/2"	63.0	75.0	7	100	28	400	0.68	280	2.80	6
PANACEA PRO-0300	3"	76.0	89.0	4	60	16	240	0.68	390	3.50	6
PANACEA PRO-0400	4"	102.0	115.0	3	45	12	180	0.68	480	4.90	6

# Transparent Suction and Discharge Silicone Hose



## Applications:

Widely used in sanitary industry, such as food, beverage, drinking water, cosmetics, medicine, pharmacy, intermediates, semi-finished products, active pharmaceutical ingredients, the hose is transparent so that you can see the flowing medium internal.

## Technical Description:

Structure: High-purity platinum-cured silicone with stainless steel helix reinforcement

Color: Transparent

Temperature Range: -60°C to + 180°C

## Standards:

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011

(USP Class VI is available. Contact our sales office for more information)

## TYPE PANACEA TR

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	B.P. (bar)	N.P. (bar)	MBR (mm)	Length (m)
PANACEA TR-0380	3/8"	13.0	23.0	3.0	9.0	0.90	38	10
PANACEA TR-0050	1/2"	13.0	23.0	3.0	9.0	0.90	46	10
PANACEA TR-0063	5/8"	16.0	26.0	3.0	9.0	0.90	50	10
PANACEA TR-0075	3/4"	19.0	29.0	2.0	6.0	0.90	60	10
PANACEA TR-0100	1"	25.0	35.0	2.0	6.0	0.90	90	10
PANACEA TR-0125	1-1/4"	32.0	42.0	1.7	5.1	0.90	120	10
PANACEA TR-0150	1-1/2"	38.0	49.0	1.7	5.1	0.90	150	10
PANACEA TR-0200	2"	50.0	61.0	1.3	3.9	0.90	210	10
PANACEA TR-0250	2-1/2"	63.0	73.0	1.3	3.9	0.68	240	6
PANACEA TR-0300	3"	76.0	86.0	1.0	3.0	0.68	300	6
PANACEA TR-0350	3-1/2"	89.0	99.0	1.0	3.0	0.68	340	6
PANACEA TR-0400	4"	102.0	112.0	1.0	3.0	0.68	400	6

# Corrosive Resistant FEP Silicone Hose



## Applications :

FEP inner tube, which has excellent resistance to liquid, semi-liquid, and corrosive chemicals. Thanks to FEP's extremely low friction coefficient, it reduces the media residual significantly. Braid and steel wire reinforcement increases the pressure and vacuum resistance of the hose so that it will transfer media easily at a high temperature.

## Technical Description:

Tube: Smooth white FEP

Reinforcement: Polyester textile and stainless steel wire

Cover: Pharmaceutical grade silicone

Color: White

Work Temperature: -30°C to +150°C

## Features:

Smooth inner tube

Excellent corrosive resistance

Extremely low friction coefficient

## Standards:

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011, USP Class VI

## TYPE PANACEA FEP

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.T. (mm)	W.P. (bar)	B.P. (bar)	N.P. (bar)	MBR (mm)	Length (m)
PANACEA FEP-0500	1/2"	12.7	25.1	6.2	10	40	0.9	60	6~10
PANACEA FEP-1000	1"	25.4	37.8	6.2	10	40	0.9	110	6~10
PANACEA FEP-1500	1-1/2"	38.1	50.5	6.2	10	40	0.9	180	6~10
PANACEA FEP-2000	2"	50.8	63.2	6.2	10	40	0.9	250	6~10

# FVMQ Silicone Hose



## Applications:

Special designed for liquid and semi-liquid transfer in food, cosmetics, and chemical industries. Excellent resistance to fatty, oily food, Ethanol, and alcohol beverages.

## Technical Description:

Tube: White FVMQ rubber

Reinforcement: Polyester textile and stainless steel wire

Cover: Pharmaceutical grade silicone

Color: White

Work Temperature: -40°C to +170°C

## Features:

Resistance to water, oil, and alcohol

Excellent corrosive resistance at CIP cleaning

## Standards:

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011, USP Class VI

## TYPE PANACEA FVMQ

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.T. (mm)	W.P. (bar)	B.P. (bar)	N.P. (bar)	MBR (mm)	Length (m)
PANACEA FVMQ-0500	1/2"	12.7	25.1	6.2	10	40	0.9	60	6~10
PANACEA FVMQ-0630	5/8"	16	28.4	6.2	10	40	0.9	70	6~10
PANACEA FVMQ-0750	3/4"	19	31.4	6.2	10	40	0.9	85	6~10
PANACEA FVMQ-1000	1"	25.4	37.8	6.2	10	40	0.9	110	6~10
PANACEA FVMQ-1250	1-1/4"	31.8	44.2	6.2	10	40	0.9	140	6~10
PANACEA FVMQ-1500	1-1/2"	38.1	50.5	6.2	10	40	0.9	180	6~10
PANACEA FVMQ-2000	2"	50.8	63.2	6.2	10	40	0.9	250	6~10
PANACEA FVMQ-2500	2-1/2"	63.5	75.9	6.2	7	28	0.9	280	6~10
PANACEA FVMQ-3000	3"	76.2	88.6	6.2	3	16	0.9	390	6~10
PANACEA FVMQ-4000	4"	102.0	114.4	6.2	2	12	0.9	480	6~10

# Bright Silicone Hose



## Applications :

For food, beverages, cosmetics, medicine, pharmaceutical industries, transporting liquids at medium pressure where a closed bending radius is not required. It is not recommended for vacuum. Suitable for CIP and SIP cleaning.

## Technical Description:

Structure: High purity platinum cured silicone with polyester fiber reinforcement

Color: Transparent

Temperature Range: -40°C to + 150°C

## Standards:

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011

(USP Class VI is available. Contact our sales office for more information)

## TYPE HERA

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
HERA-0013	1/8"	3.2	9.0	13.0	190	39.0	570	50	0.07	20
HERA-0016	1/6"	4.2	10.0	11.0	160	33.0	480	60	0.08	20
HERA-0019	3/16"	4.8	10.0	10.0	145	30.0	435	70	0.09	20
HERA-0025	1/4"	6.3	13.2	9.0	130	27.0	390	80	0.12	20
HERA-0031	5/16"	7.9	14.3	8.0	116	24.0	348	90	0.15	20
HERA-0038	3/8"	9.5	16.5	7.0	102	21.0	306	100	0.16	20
HERA-0050	1/2"	12.7	20.1	6.0	87	18.0	261	130	0.21	20
HERA-0063	5/8"	15.9	25.0	5.0	73	15.0	219	150	0.31	20
HERA-0075	3/4"	19.0	28.2	4.5	66	13.5	198	180	0.41	20
HERA-0087	7/8"	22.2	31.3	4.0	58	12.0	174	200	0.52	20
HERA-0100	1"	25.4	35.6	3.5	51	10.5	153	220	0.59	20
HERA-0125	1-1/4"	32.0	43.8	3.0	44	9.0	132	250	0.85	20
HERA-0150	1-1/2"	38.0	49.5	2.5	36	7.5	109	/	/	10



# Silicone Delivery Hose



## Applications:

Suitable for food, pharmaceutical and cosmetic processes. Not recommended for vacuum applications.

## Technical Description:

Tube: smoothbore platinum cured silicone

Reinforcement: 4 polyester textile

Cover: platinum cured silicone

Temperature range: - 50°C to + 180°C

## Standards:

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011

(USP Class VI is available. Contact our sales office for more information)

## TYPE HERA B4

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)		
HERA B4-0100	1"	25	34	6.7	100.5	20.1	301.5	0.7	6
HERA B4-0125	1-1/4"	32	41	6.3	94.5	18.9	283.5	0.8	6
HERA B4-0150	1-1/2"	38	47	5.5	82.5	16.5	247.5	0.9	6
HERA B4-0175	1-3/4"	45	54	5	75	15	225	1.1	6
HERA B4-0200	2"	51	61.5	4.6	69	13.8	207	1.2	6
HERA B4-0225	2-1/4"	57	66	4.3	64.5	12.9	193.5	1.5	6
HERA B4-0250	2-1/2"	63	72	4	60	12	180	1.7	6
HERA B4-0300	3"	76	85	3.5	52.5	10.5	157.5	2.1	6
HERA B4-0350	3-1/2"	89	98	3	45	9	135	2.3	6
HERA B4-0400	4"	102	111	2.7	40.5	8.1	121.5	2.6	6

# Long-Life Peristaltic Pump Tubing - SP02

**VELON®**      *SP02*    *FDA*    *1.0×3.*

## Applications :

Widely used for chemical analysis, pharmaceutical transfer and sampling, and food & beverage transfer in GMP pharmaceutical, bio-pharmaceutical, life-science, fine chemical, environmental protection, and food industries. Suitable for laboratory equipment, peristaltic pump, filling pump, and other filling equipment.

## Technical Data:

Tube: Transparent platinum-cured silicone rubber

Temperature: -50°C to +230°C

Standard/Approval: FDA CFR 177.2600, LFGB,

RoHS, biocompatibility

## Advantages :

Long service life and high canning precision

Platinum-cured silicone

Produced and packaged in the clean room

Odorless, free of heavy metals and harmful substances

## TYPE SP02

No.	I.D. (mm)	O.D. (mm)	W.T. (mm)	Length (mm)
SP02-13	0.8	4	1.6	15
SP02-14	1.6	4.8	1.6	15
SP02-15	4.8	9.6	2.4	15
SP02-16	3.2	6.4	1.6	15
SP02-17	6.4	9.6	1.6	15
SP02-18	7.9	11.1	1.6	15
SP02-19	2.4	5.6	1.6	15
SP02-20	3.2	8	2.4	15
SP02-21	2.4	7.2	2.4	15
SP02-24	6.4	11.2	2.4	15
SP02-25	4.8	8	1.6	15
SP02-26	6.4	12.7	3.2	15
SP02-35	7.9	12.7	2.4	15
SP02-36	9.6	14.4	2.4	15
SP02-70	9.6	19.1	4.8	15
SP02-73	9.5	16.1	3.3	15
SP02-82	12.7	19.3	3.3	15
SP02-85	15.9	22.2	3.2	15
SP02-86	9.6	22.4	6.4	15
SP02-87	12.7	25.4	6.4	15
SP02-88	12.7	22.3	4.8	15
SP02-89	15.9	25.4	4.8	15
SP02-91	19.1	31.8	6.4	15
SP02-92	25.4	35	4.8	15

# Platinum-Cured Silicone Delivery Tubing - MST-01

## Applications :

For medical equipment, IVD in vitro diagnostic equipment, trachea, and body fluid transmission.

## Technical Description:

Material: Silicone

Color: Transparent



## Advantages :

Transparent

Biocompatible

Produce in the cleanroom

Imported Raw Material

Customized Length and Package

## Standards:

FDA 21CFR 177.2600, USP VI, ISO 10993, REACH, RoHS

## TYPE MST-01

No.	I.D.		O.D.		Wall Thickness		Length	
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(m)	(ft)
MST-01(15#)	3/16	4.8	3/8	9.6	3/32	2.4	15.2	50
MST-01(16#)	1/8	3.2	1/4	6.4	1/16	1.6	15.2	50
MST-01(17#)	1/4	6.4	3/8	9.6	1/16	1.6	15.2	50
MST-01(18#)	5/16	7.9	7/16	11.1	1/16	1.6	15.2	50
MST-01(20#)	1/8	3.2	5/16	8.0	3/32	2.4	15.2	50
MST-01(24#)	1/4	6.4	7/16	11.2	3/32	2.4	15.2	50
MST-01(25#)	3/16	4.8	5/16	8.0	1/16	1.6	15.2	50
MST-01(26#)	1/4	6.4	1/2	12.7	1/8	3.2	15.2	50
MST-01(35#)	5/16	7.9	1/2	12.7	3/32	2.4	15.2	50
MST-01(36#)	3/8	9.6	9/16	14.4	3/32	2.4	15.2	50
MST-01(70#)	3/8	9.6	3/4	19.1	3/16	4.8	15.2	50
MST-01(73#)	3/8	9.6	5/8	16.0	1/8	3.2	15.2	50
MST-01(82#)	1/2	12.7	3/4	19.1	1/8	3.2	15.2	50
MST-01(85#)	5/8	15.9	7/8	22.4	1/8	3.2	15.2	50
MST-01(86#)	3/8	9.6	7/8	22.4	1/4	6.4	15.2	50
MST-01(87#)	1/2	12.7	1	25.4	1/4	6.4	15.2	50
MST-01(88#)	1/2	12.7	7/8	22.4	3/16	4.8	15.2	50
MST-01(89#)	5/8	15.9	1	25.4	3/16	4.8	15.2	50
MST-01(90#)	3/4	19.1	1	25.4	1/8	3.2	15.2	50
MST-01-039055	/	3.9	/	5.5	/	0.8	15.2	50
MST-01-040080	/	4.0	/	8.0	/	2	15.2	50
MST-01-040100	/	4.0	/	10.0	/	3	15.2	50

# Silicone Peristaltic Pump Tubing - PST-01

## Applications :

For drug production and sampling, food and beverage delivery, chemical analysis instrument, and fluid delivery in the peristaltic pump.



## Technical Description:

Material: Platinum-cured silicone  
 Work Temperature: -80°C to +230°C  
 Color: Transparent

## Advantages :

- Transparent
- Biocompatible
- Produce in the cleanroom
- Imported Raw Material
- Long-Life
- Customized Length and Package

## Standards:

FDA 21CFR 177.2600, USP VI, ISO 10993, REACH, RoHS, Extractables & Leachables

## TYPE PST-01

No.	I.D.		O.D.		Wall Thickness		Length	
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(m)	(ft)
PST-01(15#)	3/16	4.8	3/8	9.6	3/32	2.4	15.2	50
PST-01(16#)	1/8	3.2	1/4	6.4	1/16	1.6	15.2	50
PST-01(17#)	1/4	6.4	3/8	9.6	1/16	1.6	15.2	50
PST-01(18#)	5/16	7.9	7/16	11.1	1/16	1.6	15.2	50
PST-01(20#)	1/8	3.2	5/16	8.0	3/32	2.4	15.2	50
PST-01(24#)	1/4	6.4	7/16	11.2	3/32	2.4	15.2	50
PST-01(25#)	3/16	4.8	5/16	8.0	1/16	1.6	15.2	50
PST-01(26#)	1/4	6.4	1/2	12.7	1/8	3.2	15.2	50
PST-01(35#)	5/16	7.9	1/2	12.7	3/32	2.4	15.2	50
PST-01(36#)	3/8	9.6	9/16	14.4	3/32	2.4	15.2	50
PST-01(73#)	3/8	9.6	5/8	16.0	1/8	3.2	15.2	50
PST-01(82#)	1/2	12.7	3/4	19.1	1/8	3.2	15.2	50
PST-01(85#)	5/8	15.9	7/8	22.4	1/8	3.2	15.2	50
PST-01(86#)	3/8	9.6	7/8	22.4	1/4	6.4	15.2	50
PST-01(87#)	1/2	12.7	1	25.4	1/4	6.4	15.2	50
PST-01(88#)	1/2	12.7	7/8	22.4	3/16	4.8	15.2	50
PST-01(89#)	5/8	15.9	1	25.4	3/16	4.8	15.2	50
PST-01(90#)	3/4	19.1	1	25.4	1/8	3.2	15.2	50

# Long-Life Peristaltic Pump Tubing - PBT-01

## Applications :

For cell harvest and media handling systems, bioreactor process lines, production filtration and fermentation, aseptic filling, shear-sensitive fluid delivery, diagnostics, and laboratory testing.



## Technical Description:

Material: TPE

Work Temperature: -45°C to +135°C

Color: White

## Advantages :

No pyrogen, no cytotoxicity, no hemolysis

Biocompatibility

Permeability is significantly lower than that of silicone

Can be sterilized repeatedly

Produce in the cleanroom

Imported Raw Material

Customized Length and Package

## Standards:

FDA 21CFR 177.2600, USP VI, ISO 10993-4, ISO 10993-5, ISO 10993-11

## TYPE PBT-01

No.	I.D.		O.D.		Wall Thickness		Length	
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(m)	(ft)
PBT-01(16#)	1/8	3.2	1/4	6.4	1/16	1.6	15.2	50
PBT-01(17#)	1/4	6.4	3/8	9.6	1/16	1.6	15.2	50
PBT-01(24#)	1/4	6.4	7/16	11.2	3/32	2.4	15.2	50
PBT-01(73#)	3/8	9.6	5/8	16.0	1/8	3.2	15.2	50
PBT-01(82#)	1/2	12.7	3/4	19.1	1/8	3.2	15.2	50
PBT-01(85#)	5/8	15.9	7/8	22.4	1/8	3.2	15.2	50

# Welding Peristaltic Pump Tubing - PWT-01

## Applications :

For sealing and welding before or after sterilization, connections in single-use components, disconnection of single-use fluid delivery devices, tubing and bag assemblies, high-purity water systems.



## Technical Description:

Material: TPE

Work Temperature: -45°C to +135°C

Color: Semi-Transparent

## Advantages :

No pyrogen, no cytotoxicity, no hemolysis

Biocompatibility

Permeability is significantly lower than that of silicone

Smooth inner tube and the excellent flexibility

Produce in the cleanroom

Imported Raw Material

Customized Length and Package

## Standards:

FDA 21CFR 177.2600, USP VI, ISO 10993-4,

ISO 10993-5, ISO 10993-11

## TYPE PWT-01

No.	I.D.		O.D.		Wall Thickness		Length	
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(m)	(ft)
PWT-01(16#)	1/8	3.2	1/4	6.4	1/16	1.6	15.2	50
PWT-01(17#)	1/4	6.4	3/8	9.6	1/16	1.6	15.2	50
PWT-01(24#)	1/4	6.4	7/16	11.2	3/32	2.4	15.2	50
PWT-01(73#)	3/8	9.6	5/8	16.0	1/8	3.2	15.2	50
PWT-01(82#)	1/2	12.7	3/4	19.1	1/8	3.2	15.2	50
PWT-01(85#)	5/8	15.9	7/8	22.4	1/8	3.2	15.2	50



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