





Ace Sanitary, Inc., formerly a division of the

Ace Manufacturing Company was formed in

2004 to develop new business relationships.

Initial product offerings were the Flex-Rite™

Sanitary Hose Line and Seal-Rite™ Hose

Fittings. These products are now the core of

our expanded product line. We work hard to know

your business, assist you in problem solving,

provide you with quality products and over

100 years of experience.



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Description Page 3 Assembly Types Radial Crimp, Molded, Reusable R- Series FDA/3-A - Rubber Hose R- Series FDA/3-A - Rubber Hose R-Series FDA/3-A - Rubber Hose F- Series FDA - Food Grade Hose T- Series Fluoropolymer Lined Hose T- Series Fluoropolymer Lined Hose S- Series Silicone Hose S-Series Silicone Hose A-Series Specialty Tubing P- Series PVC Hose 13 I- Series Industrial Hose (Washdown & Steam) Specialty Molded, Jacketed Hose 15 16 Molded Assembly Types & Ordering 17 ReUseables Assembly Types & Ordering **Measurement & End Styles** 18 19 Assembly Part Number and Ordering General Hose Installation Information 21 **Definitions** Industry Recognized Terms 22 Accessories Reducers, Supports, Etc. 23 Accessories Molded Labels, Racks, Custom Fab Equipment Testing, Production, Marking 25 **Equipment** Washdown, Crimpers 26 Product Selection Cautionary/Warranty Statement Sizing Fitting Specifier (Actual Size Drawings) Data Sheets Product PDFs Available Online



Rubber, Silicone, PVC & Fluoropolymer Lined Hoses



ACCEPTED BY: USDA Dairy

COMPLIANCE: ASME BPE 2014, FDA Grade "A" PMO

Molded **Ends**

Seal-Rite™ radial crimp couplers are the purest unitized assemblies available today. Our external crimp design provides a 360° fixed seal at the coupler stem to hose junction point that eliminates the possibility of product wicking between the hose and coupler. Unlike internal expansion which can deform metal and yield die impressions, radial crimp technology will not interfere with the internal surface of the coupling stem. A full flow smooth bore transition is created after fabrication that eliminates ledges or crevices that can collect bacteria.

TwistLOC™ components become a single unit that resist separation under severe applications. Internal surface finishes of 15 Ra or better. Each coupling stem is manufactured from 316L grade stainless steel and laser etched with a material traceability number which is our commitment to quality. Seal-Rite radial crimped couplers are available for attachment on Flex-Rite™ hoses. A wide range of end styles, sizes 1/4" through 6" are available.



Detailed information on both these products can be found on page 16 and 17.



RDC Discharge



This lightweight discharge hose provides extra flexibility and smooth handling. (Meets 3-A* standards, USDA requirements and is FDA compliant). Designed to be chemically resistant to mild caustic solutions. This discharge hose is well suited for overhead CIP wash units and capable of handling pressures up to 250 PSI.

RES High Temperature Suction & Discharge



This premium quality hose withstands rough handling and high temperatures and harsher chemical environments. A suction and discharge hose that will not impart taste or odor to products being transferred. (Meets 3-A* standards, USDA requirements and is FDA compliant). Typical use includes: Non-Oily, Milk, Dairy, Food and Beverage, Chemical, Pharmaceutical and CIP Applications.

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
RDC150	11/2"	2.07"	250 PSI		.98 lbs.	-	100'
RDC200	2"	2.59"	250 PSI	-	1.38 lbs.	-	100'
RDC250	21/2"	3.11"	250 PSI	2	1.78 lbs.	_	100'

TUBE White, FDA, 3-A*, Chlorobutyl REINFORCEMENT Spiral-plied synthetic fabric RECOMMENDED CLEANING CIP, COP

COVER Blue EPDM w/white stripe TEMP. RANGE -40 to 225° F

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
RES050	1/2"	.94"	150 PSI	2.0"	.28 lbs.	29"	130'
RES075	3/4"	1.22"	150 PSI	2.5"	.47 lbs.	29"	130'
RES100	1"	1.46"	150 PSI	3.5"	.57 lbs.	29"	130'
RES150	11/2"	2.00"	150 PSI	6.0"	.88 lbs.	29"	130'
RES200	2"	2.52"	150 PSI	7.5"	1.13 lbs.	29"	130'
RES250	21/2"	3.17"	150 PSI	9.0"	1.87 lbs.	29"	130'
RES300	3"	3.70"	150 PSI	11.0"	2.24lbs.	29"	130'

TUBE White, FDA, 3-A*, EPDM
REINFORCEMENT Two polyester spirals with dual wire helix
RECOMMENDED CLEANING CIP, SIP, Autoclave

Note: EPDM not recommended for use with petroleum based fluids

COVER Blue EPDM Synthetic Rubber TEMP. RANGE -40 to 300° F

RCR Crush Resistant



Consistent flow is maintained by this crush resistant hose whether kinked, twisted or run over. It's designed with a monofilament helix to spring back to its original shape. (Meets 3-A* standards, USDA requirements and is FDA compliant). Excellent for high traffic areas, the RCR delivers generous flow rates for wine, beer and other sanitary liquid food stuffs. Bacteria resistant construction delivers taste and odor free flow.

RCR-C Crush Resistant - Grounded



RCR-C is designed with the same rugged construction as our standard crush resistant hose. We've added a layer of protection for those applications where static discharge is a concern. (Meets 3-A* standards, USDA requirements and is FDA compliant). This versatile hose has two multi-strand, copper wires to provide positive grounding and peace of mind.

MODEL	I.D.	0.D.	PRESSURE	RADIUS	PER FT.	IN HG.	LENGTH
RCR150	11/2"	2.11"	250 PSI	4.0"	.98 lbs.	27"	100'
RCR200	2"	2.68"	250 PSI	7.0"	1.38 lbs.	27"	100'
RCR250	21/2"	3.21"	250 PSI	10.0"	1.78 lbs.	27"	100"
RCR300	3"	3.85"	250 PSI	12.0"	2.59 lbs.	27"	100'
RCR400	4"	4.85"	250 PSI	15.0"	3.44 lbs.	27"	100'

TUBE White, FDA, 3-A*, Chlorobutyl REINFORCEMENT Spiral-plied synthetic fabric with monofilament helix RECOMMENDED CLEANING CIP. COP

COVER Orange EPDM w/white strip TEMP. RANGE -30 to 225° F

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
RCR-C150	11/2"	2.11"	250 PSI	4.0"	.98 lbs.	27"	100'
RCR-C200	2"	2.68"	250 PSI	7.0"	1.38 lbs.	27"	100'
	CALL	FACTO	RY FOR 2-1	/2" SIZE IN	FORMATIC	ON	
RCR-C300	3"	3.85"	250 PSI	12.0"	2.59 lbs.	27"	100'

TUBE White, FDA, 3-A*, Chlorobutyl COVER Orange EPDM w/white strip REINFORCEMENT Spiral-plied synthetic fabric with monofilament helix & copper wire TEMP. RANGE - 30 to 225° F RECOMMENDED CLEANING CIP, COP

ALL R-Series hose products meet/comply: USDA Class III requirements, FDA CFR Title 21.1772600, 3-A 18-03 *The 3-A 62-02, standard applies only to assemblies of 3/4" diameter and larger.

WARNING Working pressure ratings for all Flex-Rite™ brand hoses are based on 70° F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For "R" series applications that exceed 200° F contact manufacturer for suggestions.



WARKING

RSD Suction & Discharge GRAY



Versatility makes this hose our most popular choice for product transfer and CIP applications. (Meets 3-A* standards, USDA requirements and is FDA compliant). Rated for full suction and discharge use up to 150 PSI. The specially compounded tube is engineered to handle high temperatures, will not impart taste or odor and is highly resistant to common CIP solutions. A dual wire helix makes the RSD extremely flexible and easy to handle.

MODEL	I.D.	0.D.	PRESSURE	RADIUS	PER FT.	IN HG.	LENGTH
RSD050	1/2"	1.00"	150 PSI	2.0"	.32 lbs.	29"	100'
RSD075	3/4"	1.25"	150 PSI	2.0"	.57 lbs.	29"	100'
RSD100	1"	1.50"	150 PSI	3.0"	.91 lbs.	29"	100'
RSD150	11/2"	2.06"	150 PSI	4.0"	1.03 lbs.	29"	100'
RSD200	2"	2.57"	150 PSI	4.5"	1.32 lbs.	29"	100'
RSD250	21/2"	3.12"	150 PSI	5.5"	1.84 lbs.	29"	100'
RSD300	3"	3.74"	150 PSI	7.0"	2.55 lbs.	29"	100'
RSD400	4"	4.77"	150 PSI	10.0"	5.51 lbs.	29"	100'
RSD600	6"	6.75"	150 PSI	22.0"	5.42 lbs.	29"	100'

MINI DEND

WEIGHT

TUBE White, FDA, 3-A*, Chlorobutyl REINFORCEMENT Spiral-plied synthetic fabric with dual wire helix RECOMMENDED CLEANING CIP. COP

COVER Gray, EPDM w/white stripe TEMP. RANGE -40 to 225°F COLORS AVAILABLE Consult Factory

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RSD Suction & Discharge BLUE



Product Description same as RSD Gray

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
RSDB150	11/2"	2.06"	150 PSI	4.0"	1.03 lbs.	29"	100'
RSDB200	2"	2.57"	150 PSI	4.5"	1.32 lbs.	29"	100"
RSDB250	21/2"	3.12"	150 PSI	5.5"	1.84 lbs.	29"	100'
RSDB300	3"	3.74"	150 PSI	7.0"	2.55 lbs.	29"	100'

TUBE White, FDA, 3-A*, Chlorobutyl REINFORCEMENT Spiral-plied synthetic fabric with dual wire helix RECOMMENDED CLEANING CIP, COP

COVER Blue, EPDM w/white stripe TEMP. RANGE -40 to 225° F COLORS AVAILABLE Consult Factory

RSD Suction & Discharge RED



Product Description same as RSD Gray

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
RSDR150	11/2"	2.06"	150 PSI	4.0"	1.03 lbs.	29"	100'
RSDR200	2"	2.57"	150 PSI	4.5"	1.32 lbs.	29"	100'
RSDR250	21/2"	3.12"	150 PSI	5.5"	1.84 lbs.	29"	100'
RSDR300	3"	3.74"	150 PSI	7.0"	2.55 lbs.	29"	100"

TUBE White, FDA, 3-A*, Chlorobutyl REINFORCEMENT Spiral-plied synthetic fabric with dual wire helix RECOMMENDED CLEANING CIP, COP

COVER Red, EPDM w/white stripe TEMP. RANGE -40 to 225° F COLORS AVAILABLE Consult Factory

RCT Comestible Transfer



Excellent choice for edible oils, and personal care products as well as most dairy applications. (Meets 3-A* standards, USDA requirements and is FDA compliant). Rated for full transfer use up to 150 PSI, Nitrile hose is engineered to handle high temperatures and maintain product color, taste and aroma. A dual wire helix makes the RCT extremely flexible and easy to handle.

For quickest response, send ALL requests for quotes and purchase orders to:

sales@acesanitary.com

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
RCT100	1"	1.50"	150 PSI	3.5"	.95 lbs.	29"	100'
RCT150	11/2"	2.13"	150 PSI	4.0"	1.10 lbs.	29"	100'
RCT200	2"	2.64"	150 PSI	4.5"	1.45 lbs.	29"	100'
RCT250	21/2"	3.19"	150 PSI	6.0"	1.90 lbs.	29"	100'
RCT300	3"	3.76"	150 PSI	7.0"	2.68 lbs.	29"	100'
RCT400	4"	4.77"	150 PSI	10.5"	3.54 lbs.	29"	100'

TUBE White, FDA, 3-A*, Nitrile REINFORCEMENT Spiral-plied synthetic fabric with dual wire helix RECOMMENDED CLEANING CIP, COP

COVER White Nitrile w/white stripe TEMP. RANGE -25 to 250°F

ALL R-Series hose products meet/comply: USDA Class III requirements, FDA CFR Title 21.1772600, 3-A 18-03 *The 3-A 62-02, standard applies only to assemblies of 3/4" diameter and larger.

WARNING Working pressure ratings for all Flex-Rite™ brand hoses are based on 70° F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For "R" series applications that exceed 200° F contact manufacturer for suggestions.



RBT Beverage Transfer



A heavy-duty discharge hose with suction capability is ideal for the highly demanding service of transferring liquid products in breweries, wineries and dairies. (Meets 3-A* standards, USDA requirements and is FDA compliant). Bounce back design resists damage from kinking or flattening in high traffic areas.

> Now Stocked in / Mana - Blue

Black · Yellov

I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
1"	1.69"	250 PSI	4.0"	.81 lbs.	20"	100'
11/2"	2.23"	250 PSI	5.5"	1.20 lbs.	20"	100'
2"	2.92"	250 PSI	6.5"	1.86 lbs.	20"	100'
3"	4.09"	250 PSI	10.0"	3.57 lbs.	20"	100'
	1" 1 ¹ /2" 2"	1" 1.69" 1 ¹ / ₂ " 2.23" 2" 2.92"	1.D. O.D. PRESSURE 1" 1.69" 250 PSI 11/2" 2.23" 250 PSI 2" 2.92" 250 PSI	I.D. O.D. PRESSURE RADIUS 1" 1.69" 250 PSI 4.0" 11/2" 2.23" 250 PSI 5.5" 2" 2.92" 250 PSI 6.5"	I.D. O.D. PRESSURE RADIUS PER FT. 1" 1.69" 250 PSI 4.0" .81 lbs. 11/2" 2.23" 250 PSI 5.5" 1.20 lbs. 2" 2.92" 250 PSI 6.5" 1.86 lbs.	I.D. O.D. PRESSURE RADIUS PER FT. IN HG. 1" 1.69" 250 PSI 4.0" .81 lbs. 20" 11/2" 2.23" 250 PSI 5.5" 1.20 lbs. 20" 2" 2.92" 250 PSI 6.5" 1.86 lbs. 20"

TUBE White, FDA, 3-A*, Chlorobutyl REINFORCEMENT Spiral-piled synthetic fabric 4 piles 1.5"- 6 piles 2" & over RECOMMENDED CLEANING CIP COP

COVER Purnle FPDM w/white strine TEMP. RANGE -40 to 225° F

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COVER White EPDM w/white stripe

TEMP. RANGE -40 to 275° F

Custom Colors Available

RWD Washdown



This premium washdown hose is designed for cleanup duties in non-oily applications, dairies, creameries, breweries, food, beverage, meat and poultry processing plants. This premium quality hose is capable of handling hot water up to 300° F. (Meets 3-A* standards, USDA requirements and is FDA compliant). A chemically resistant hose, with a wrapped cover construction designed to provide excellent resistance to cuts and abrasion while providing handling stability.

RWS-L Wine & Spirits - Lite



RWS-L is a lightweight, extremely flexible hose. The exterior polymer blend with corrugations that are wide and smooth ensure low friction and ease of movement. This suction and discharge hose is designed for extra flex. Wear resistance is acheived by its "ARC" abrasion resistant cover. RWS-L delivers taste and odor free flow and easy clean up. (Meets 3-A* standards, USDA requirements and is FDA compliant)

RWS Wine & Spirits



Exterior polymer blend with wide/smooth corrugations ensures low friction and ease of movement. This suction & discharge hose is designed for extra flex and wear resistance. (Meets 3-A* standards, USDA requirements and is FDA compliant). Delivers taste and odor free flow and easy clean up.

MODEL	I.D.	0.D.	PRESSURE	RADIUS	PER FT.	IN HG.	LENGTH
RWD075	3/4"	1.35"	300 PSI	-	.41 lbs.	-	200'
RWDB075	3/4"	1.35"	300 PSI	-	.41 lbs.	-	200'
RWD BK 075	3/4"	1.35"	300 PSI	-	.41 lbs.	-	200'
RWDY075	3/4"	1.35"	300 PSI	-	.41 lbs.	-	200'

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WEIGHT

WARKING

TUBE White, FDA, 3-A*, EPDM

REINFORCEMENT Spiral-plied synthetic fabric 4 piles RECOMMENDED CLEANING CIP. COP

Note: EPDM not recommended for use with petroleum based fluids

See page 14 for additional washdown options.

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
RWS-L150	11/2"	1.93"	115 PSI	3.0"	.65 lbs.	27"	130'
RWS-L200	2"	2.44"	115 PSI	4.0"	.85 lbs.	27"	130'
RWS-L250	21/2"	2.97"	115 PSI	5.0"	1.15 lbs.	27"	130
RWS-L300	3"	3.46"	115 PSI	6.0"	1.37 lbs.	27"	130'

TUBE White, FDA, 3-A*, Chlorobutyl REINFORCEMENT High strength synthetic cord with steel wire helix RECOMMENDED CLEANING CIP, COP

COVER Gray Thermoplastic w/white stripe TEMP. RANGE -40 to 250° F

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
RWS150	11/2"	2.09"	150 PSI	4.0"	1.00 lbs.	29"	130'
RWS200	2"	2.69"	150 PSI	5.0"	1.39 lbs.	29"	130'
RWS250	21/2"	3.13"	150 PSI	6.5"	1.68 lbs.	29"	130'
RWS300	3"	3.64"	150 PSI	7.5"	2.11 lbs.	29"	130'
RWS400	4"	4.77"	150 PSI	9.0"	3.15 lbs.	29"	130'

TUBE White, FDA, 3-A*, Chlorobutyl
REINFORCEMENT High strength synthetic cord with steel wire helix RECOMMENDED CLEANING CIP. COP

COVER Red Thermonlastic w/white strine TEMP. RANGE -40 to 250° F

ALL R-Series hose products meet/comply: USDA Class III requirements, FDA CFR Title 21,1772600, 3-A 18-03 *The 3-A 62-02, standard applies only to assemblies of 3/4" diameter and larger.

WARNING Working pressure ratings for all Flex-Rite™ brand hoses are based on 70° F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For "R" series applications that exceed 200° F contact manufacturer for suggestions.



te[™] F-Series Food Grade

FRH Raised Helix



This hose is an excellent choice for receiving bays. Its exterior corrugations provide for tight bending and easy handling. Designed for adverse conditions or cleanup as water will not pool with use of the FRH. Versatile and flexible, this hose is ideal for suction and discharge use up to 150 PSI while not imparting taste or odor.

These FDA grade hoses are not suitable for 3-A applications

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
FRH200	2"	2.59"	150 PSI	-	1.23 lbs.	29"	100'
FRH300	3"	3.58"	150 PSI	**	1.76 lbs.	29"	100'

TUBE White, FDA, 3-A*, Chlorobutyl REINFORCEMENT 2 ply synthetic fabric RECOMMENDED CLEANING CIP, COP

COVER Gray, w/orange PVC Helix TEMP. RANGE - 25 to 180° F

FDF Dry Food Transfer



This suction and discharge hose, with it's anti-static tube and conductive cover is excellent for wet or dry abrasive materials, like sugar or powdered milk. It's designed to be extremely flexible and suited for extreme environments.

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
FDF200	2"	2.64"	150 PSI	12.0"	1.89 lbs.	27"	130'
FDF300	3"	3.66"	150 PSI	18.0"	3.15 lbs.	27"	130'
FDF400	4"	4.72"	150 PSI	24.0"	4.52 lbs.	27"	130'

TUBE White, FDA, Anti-Static, NBR
REINFORCEMENT Spiral ply cords w/2 steel helix wires and static wire
RECOMMENDED CLEANING CIP. COP

COVER Green w/conductive black stripe TEMP. RANGE -15 to 180° F

FPE UHMW-PE S&D



An economical alternative for fluoropolymer lined hose. With a low friction cover it's a significant addition to our chemical hose line. It handles the majority of common industrial chemicals in pressure, gravity and suction applications. FPE is crush and kink resistant and durable for challenging applications.

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
FPE075	3/4"	1.22"	150 PSI	3.15"	.46 lbs.	28"	130'
FPE100	1"	1.46"	150 PSI	3.94"	.54 lbs.	28"	130'
FPE150	11/2"	2.00"	150 PSI	5.92"	.76 lbs.	28"	130'
FPE200	2"	2.52"	150 PSI	7.87"	1.21 lbs.	28"	130'

TUBE UPE, USP Class II & FDA Criteria
REINFORCEMENT Spiral-plied synthetic fiber, steel & copper wire helix
RECOMMENDED CLEANING CIP, COP

COVER Green Thermoplastic w/white stripe TEMP. RANGE -31 to 212° F

FGS Deep Corrugations



Designed to handle a wide variety of liquid products, including oily edibles. The white nitrile tube will not impart taste or odor to the liquids be transferred. This hose is rated for vacuum as well as a constant 150 psi working pressure on all sizes. The distinct, deep corrugations permit a tighter bend radius.

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
FGS150	11/2"	2.19"	150 PSI	3.0"	1.20 lbs.	28"	100'
FGS200	2"	2.69"	150 PSI	4.0"	1.60 lbs.	28"	100'
FGS250	21/2"	3.22"	150 PSI	5.0"	2.00 lbs.	28"	100'
FGS300	3"	3.72"	150 PSI	6.0"	2.30 lbs.	28"	100'
FGS400	4"	4.80"	150 PSI	8.0"	3.40 lbs.	28"	100'

TUBE White, FDA, Nitrile
REINFORCEMENT 2 Spiral ply synthetic fabric w/double helix wire
RECOMMENDED CLEANING CIP, COP

COVER Gray w/white stripe TEMP. RANGE -30 to 200° F

Visit acesanitary.com for new additions and most up-to-date product information



T-Series Fluoropolymer Lined Hose

TSC Silicone Covered Smooth Bore



This silicone covered, PTFE lined tube (tube: smooth bore with exterior convolutions) provides extreme flexibility. Exceptional for High Purity use in Pharmaceutical, Biotech and Foodstuffs industries. This hose will not impart taste or odor to products being transferred and provides cleaning ease both inside and out. TSC is excellent for use in hot oil or low velocity steam transfer applications.

TSC-C Carbon Filled - Anti-Static



While similar to the TSC, the TSC-C has a carbon filled tube for safety purposes. This hose is recommended for steam applications or volatile media transfer where static build up is a concern.

TSB Braided Smooth Bore



Excellent for fixed applications where minimal Abuse, handling or flexing exist. Available for "flared through" applications.

HOSE COVER OPTIONS AVAILABLE

TCB Steel Braided Convoluted



Kink resistant hose that is easy to flex and has a tighter bend radii than smooth bore. Openpitched, seamless, helical convolutions provide for easy cleaning and transport of pharmaceuticals, chemical, food and beverages. HOSE COVER OPTIONS AVAILABLE

TCP Poly Braided Convoluted



Better abrasion resistance than metal braids, easy to flex and has a tighter bend radii than smooth bore. Kink resistant with open-pitched, seamless, helical convolutions that provide for easy cleaning and transport of pharmaceuticals, chemicals, food and beverages.

All "T-Series" hose meet USP Class VI & FDA Criteria - ALL liners are extra thick to provide better flex life and less permeation. Anti-static tube option available.

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
TSC025	1/4"	.46"	1100 PSI	.07"	.12 lbs.	29"	50'
TSC037	3/8"	.61"	1000 PSI	1.0"	.14 lbs.	29"	50'
TSC050	1/2"	.84"	870 PSI	1.5"	.25 lbs.	29"	50'
TSC075	3/4"	1.12"	650 PSI	2.5"	.42 lbs.	29"	50'
TSC100	1"	1.45"	580 PSI	4.0"	.57 lbs.	29"	50'
TSC150	11/2"	2.03"	430 PSI	6.7"	1.14 lbs.	29"	50'
TSC200	2"	2.56"	400 PSI	8.2"	1.58 lbs.	29"	50'
TSC250	21/2"	3.17"	290 PSI	11.8"	2.41 lbs.	29"	50'
TSC300	3"	3.65"	220 PSI	13.8"	2.96 lbs.	29"	50'

TUBE PTFE unpigmented, 3-A*, USP Class VI & FDA Criteria REINFORCEMENT 316L Stainless Steel

COVER White, Platinum Cured Silicone TEMP. RANGE - 100 to 400° F RECOMMENDED CLEANING CIP, SIP, Autoclave MOLDED SML Molded Labels pg 23

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
TSC-C025	1/4"	.46"	1100 PSI	.07"	.12 lbs.	29"	50'
TSC-C037	3/8"	.61"	1000 PSI	1.0"	.14 lbs.	29"	50'
TSC-C050	1/2"	.84"	870 PSI	1.5"	.25 lbs.	29"	50'
TSC-C075	3/4"	1.12"	650 PSI	2.5"	.42 lbs.	29"	50'
TSC-C100	1"	1.45"	580 PSI	4.0"	.57 lbs.	29"	50'
TSC-C150	11/2"	2.03"	430 PSI	6.7"	1.14 lbs.	29"	50"
TSC-C200	2"	2.56"	400 PSI	8.2"	1.58 lbs.	29"	50'
TSC-C250	21/2"	3.17"	290 PSI	11.8"	2.41 lbs.	29"	50"
TSC-C300	3"	3.65"	220 PSI	13.8"	2.96 lbs.	29"	50"

TUBE PTFE (Carbon Filled), Anti-Static, 3-A*, USP Class VI & FDA Criteria REINFORCEMENT 316L Stainless Steel RECOMMENDED CLEANING CIP, SIP, Autoclave

COVER White, Platinum Cured Silicone TEMP. RANGE - 100 to 400° F MOLDED SML Molded Labels pg 23

COVER Stainless Steel braid

TEMP. RANGE -20 to 425°F

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
TSB025	1/4"	.41"	3000 PSI	1.7"	.16 lbs.	30"	50'
TSB037	3/8"	.53"	2500 PSI	2.0"	.16 lbs.	30"	50'
TSB050	1/2"	.63"	1425 PSI	6.5"	.16 lbs.	30"	50'
TSB075	3/4"	.86"	1000 PSI	8.2"	.20 lbs.	30"	50'
TSB100	1"	1.19"	1000 PSI	12.0"	.53 lbs.	30"	50"

TUBE PTFE unpigmented, USP Class VI & FDA Criteria REINFORCEMENT 1" double braided RECOMMENDED CLEANING CIP. SIP. Autoclave

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
TCB050	1/2"	.75"	1425 PSI	2.0"	.19 lbs.	29"	50'
TCB075	3/4"	1.05"	1300 PSI	2.7"	.29 lbs.	29"	50'
TCB100	1"	1.35"	1100 PSI	4.0"	.51 lbs.	29"	50'
TCB150	11/2"	2.03"	700 PSI	6.0"	.81 lbs.	29"	50'
TCB200	2"	2.46"	525 PSI	7.5"	1.00 lbs.	29"	50"
TCB300	3"	3.70"	350 PSI	14.0"	-	29"	50'
TCB400	4"	5.00"	275 PSI	16.0"	7	29"	50'

TUBE PTFE unpigmented, USP Class VI & FDA Criteria RECOMMENDED CLEANING CIP, SIP, Autoclave

COVER Stainless Steel braid TEMP. RANGE -20 to 425°F

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
TCP050	1/2"	.86"	475 PSI	2.0"	.12 lbs.	29"	50"
TCP075	3/4"	1.16"	425 PSI	2.7"	.18 lbs.	29"	50"
TCP100	1"	1.44"	375 PSI	4.0"	.26 lbs.	29"	50'
TCP150	11/2"	2.16"	325 PSI	6.0"	.47 lbs.	29"	50'
TCP200	2"	2.56"	275 PSI	7.5"	.54 lbs.	29"	50'
TCP300	3"	3.92"	225 PSI	14.0"	-	29"	50'
TCP400	4"	5.22"	100 PSI	16.0"	-	29"	50"

TUBE PTFE unpigmented, USP Class VI & FDA Criteria RECOMMENDED CLEANING (IP, SIP, Autoclave

COVER Blue polyproplene TEMP. RANGE -20 to 250°F

WARNING Working pressure ratings for all Flex-Rite™ brand hoses are based on 70° F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For "T" series applications that exceed 250° F contact manufacturer for suggestions.



TSP CO-X PTFE



TSP is a suction and discharge hose lined with co-extruded PTFE and has a smooth silicone cover (easily cleaned). This batch hose is produced without the the use of adhesives and is phthalate free. Co-extrusion allows your product to flow through a natural, non-pigmented PTFE surface. TSP's excellent chemical and mechanical properties are designed for use in the food, cosmetic, chemical and pharmaceutical industries.

WORKING MIN. BEND VAC. WEIGHT MODEL I.D. 0.D. **PRESSURE** RADIUS PER FT. IN HG. LENGTH TSP050 1/2" 94" 200 PSI 2.0" 28" .31 lbs. 32' 3/4" TSP075 1.18" 180 PSI 3.0" .41 lbs. 28" 32' TSP100 1" 1.42" 180 PSI 3.5" .51 lbs. 28" 32' TSP150 11/2" 1.97" 150 PSI 5.5" .84 lbs. 28" 32' TSP200 2" 2.44" 105 PSI 7.0" 1.07 lbs. 28" 32' TSP250 21/2" 3.13" 90 PSI 12.5" 1.80 lbs. 28" 32' TSP300 3" 3.58" 75 PSI 15.0" 2.17 lbs. 28" 32'

TUBE PTFE, 3-A*, USP Class VI, REACH & FDA Criteria REINFORCEMENT Spiral-plied synthetic fabric w/Stainless Steel wire, helix RECOMMENDED CLEANING CIP. SIP. Autoclave

COVER FDA, White, Smooth Silicone TEMP. RANGE -40 to 300° F MOLDED SML Molded Labels pg 23

11/4" & 4" Available Upon request - Consult Factory

TRS EPDM Rubber Covered Smooth Bore



A steel wire is helically wound through the wall which provides crush, kink and vacuum resistance. Ideal where external abrasion resistance is required.

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
TRS050	1/2"	.97"	300 PSI	1.5"	.32 lbs.	29"	60'
TRS075	3/4"	1.27"	300 PSI	3.0"	.48 lbs.	29"	60'
TRS100	1"	1.48"	300 PSI	3.5"	.57 lbs.	29"	60'
TRS150	11/2"	2.04"	300 PSI	4.5"	.89 lbs.	29"	60'
TRS200	2"	2.54"	300 PSI	7.0"	1.22 lbs.	29"	60'
TRS250	21/2"	3.07"	300 PSI	10.0"	1.64 lbs.	29"	60'
TRS300	3"	3.82"	200 PSI	14.0"	2.68 lbs.	29"	60'
TRS400	4"	4.84"	150 PSI	18.0"	3.98 lbs.	29"	60'

TUBE FEP, 3-A*, USP Class VI & FDA Criteria REINFORCEMENT Steel wire, helically wound RECOMMENDED CLEANING CIP, SIP - Steam shouldn't exceed 25 psi/250°

COVER Green EPDM w/white stripe TEMP. RANGE -20 to 300° F 3-A LISTED 3/4° I.D. and over

TVF VuFlo® Indicator



VuFlo® flow indicator allows quick verification of product volume and transfer through your system. Chemically resistant and designed to produce excellent performance in Dairy, Food & Beverage, Cosmetics, Pharmaceutical and Biotech applications. (Meets 3-A*, USDA, FDA and USP Class VI standards).

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
TVF050	1/2"	.72"	200 PSI	RIGID	.18 lbs.	27"	12'
TVF075	3/4"	1.02"	175 PSI	RIGID	.33 lbs.	27"	12'
TVF100	1"	1.27"	125 PSI	RIGID	.43 lbs.	27"	12'
TVF150	11/2"	1.82"	105 PSI	RIGID	.74 lbs.	27"	12'
TVF200	2"	2.27"	75 PSI	RIGID	.80 lbs.	27"	12'
TVF250	21/2"	2.80"	50 PSI	RIGID	.88 lbs.	27"	12'
TVF300	3"	3.31"	45 PSI	RIGID	.99 lbs.	27"	12'
TUBE CLASS	VI, FEP	RECO	MMENDED CLEAN	ING CIP, COP, SIP	TEMP.	RZNGE -80	to 450° F

Available Upon request - Consult Factory

PFA Lined Hose & Fittings Coming Soon -



Visit acesanitary.com for new additions and most up-to-date product information



T-Series Products meet/comply: USP Class VI, FDA CFR Title 21 177.2600, 3-A 20-23

*The 3-A 62-02, standard applies only to assemblies of 3/4" diameter and larger.

WARNING Working pressure ratings for all Flex-Rite™ brand hoses are based on 70° F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For "T" series applications that exceed 250° F contact manufacturer for suggestions.



S-Series Silicone Hose

All "S-Series" products meet or exceed **USP Class VI & FDA Criteria** Manufactured from high purity, platinum cured resin and fully traceable. Extractable & Leachable documentation available upon request.

SXW X-tremely Flexible, Wire Reinforced



SXW with low force-to-bend characteristics is an **X-tremely flexible** suction and delivery hose. Our phthalates free tubes are ideal for pharmaceutical, cosmetic and food products transfer. (Meets 3A*, USDA, FDA and USP Class VI standards).

This **High Purity Silicone** hose is manufactured to the longest length in the industry (130 feet).

Striking a balance between flexibility and strength, SXW is reinforced with 316L stainless steel wire.

WORKING MIN. BEND WEIGHT VAC. MODEL I.D. 0.D. PRESSURE RADIUS PER FT. IN HG. LENGTH SXW050 1/2" .94" 150 PSI 1.5" 0.31 lbs. 28" 130 SXW075 3/4" 1.18" 150 PSI 2.0" 0.40 lbs. 28" 130' 1" 0.49 lbs. SXW100 1.42" 150 PSI 2.5" 28" 130" SXW125 11/4" 1.69" 137 PSI 3.5" 0.65 lbs. 28" 130 SXW150 11/5" 2.00" 125 PSI 4.5" 0.81 lbs. 28" 130' 2" 5.5" 1.05 lbs. 28" SXW200 2.52" 110 PSI 130 SXW250 21/2" 3.09" 7.0" 1.55 lbs. 28" 85 PSI 130 1.82 lbs. SXW300 3" 3.58" 70 PSI 9.0" 28" 130' SXW400 4" 4.61" 50 PSI 14.5" 2.38 lbs. 28" 130"

TUBE FDA, 3-A*, USP Class VI silicone - Platinum cured
REINFORCEMENT 4 ply polyester fabric w/316L stainless steel wire helix
RECOMMENDED CLEANING CIP, SIP, Autoclave

COVER White translucent (colors available) TEMP. RANGE - 100 to 395° F

SXD Fabric Reinforced Discharge



SXD like the SXW, is extremely easy to handle. Reinforced with four fabric layers ensures a balance between strength and lightness. Specially designed for **bulk transfer**, high-pressure, and light vacuum process applications. (Meets 3A*, USDA, FDA and USP Class VI standards). Short lengths are ideal for proportioning and load cells.

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
SXD050	1/2"	1.00"	150 PSI	8.0"	0.27 lbs.	26"	130'
SXD075	3/4"	1.22"	150 PSI	10.0"	0.37 lbs.	22"	130'
SXD100	1"	1.46"	125 PSI	12.0"	0.46 lbs.	18"	130'
SXD150	11/2"	1.97"	85 PSI	-	0.64 lbs.	12"	130'
SXD200	2"	2.48"	70 PSI	-	0.83 lbs.	8"	130'
SXD250	21/2"	3.01"	60 PSI	-	1.13 lbs.	6"	130'
SXD300	3"	3.50"	45 PSI	-	1.33 lbs.	4"	130'

TUBE FDA, 3-A*, USP Class VI silicone - Platinum cured REINFORCEMENT 4 ply polyester fabric RECOMMENDED CLEANING CIP, SIP, Autoclave COVER White translucent (colors available) TEMP. RANGE - 100 to 395° F

SSD Single Braid Discharge



A polyester braid reinforced silicone hose, processed with pharmaceutical grade elastomer, designed for mid-range pressures. Manufactured using reinforced polyester braid. Resists weathering and temperature extremes. (Meets 3A*, USDA, FDA and USP Class VI standards).

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
SSD025	1/4"	.52"	140 PSI	1.0"	0.09 lbs.		50'
SSD037	3/8"	.66"	135 PSI	1.5"	0.13 lbs.	94	50'
SSD050	1/2"	.80"	100 PSI	3.0"	0.18 lbs.	-	50'
SSD062	5/8"	.97"	100 PSI	3.5"	0.22 lbs.	17-	50'
SSD075	3/4"	1.10"	90 PSI	4.0"	0.26 lbs.	12	50'
SSD100	1"	1.36"	60 PSI	6.0"	0.31 lbs.	-	50'

TUBE FDA, 3-A*, USP Class VI silicone - Platinum cured REINFORCEMENT Single ply polyester braid RECOMMENDED CLEANING CIP, SIP, Autoclave COVER White translucent TEMP. RANGE - 100 to 395° F

For quickest response, send ALL request for quotes and purchase orders to: sales@acesanitary.com

ALL S-Series Products meet/comply: USP VI, USDA Class III requirements, FDA CFR Title 21 177.2600, 3-A 18-03

*The 3-A 62-02 standard applies only to assemblies of 3/4" diameter and larger.

WARNING: Working pressure ratings for all Flex-Rite[™] Products are based on 70° F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For "S" series applications that exceed 250°F contact manufacturer for suggestions.



SDB Double Braided Discharge



This high-presssure, silicone, double braided, non-metalic hose can be autoclaved, irradiated or sterilized by ethylene oxide gas. (Meets 3A*, USDA, FDA and USP Class VI standards). Designed to resist weathering and temperature extremes.

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I.D.	0.D.	PRESSURE	RADIUS	PER FT.	IN HG.	LENGTH
1/2"	.94"	150 PSI	6.0"	0.27 lbs.	-	50'
3/4"	1.25"	150 PSI	7.5"	0.44 lbs.	-	50'
1"	1.47"	125 PSI	8.0"	0.47 lbs.	373	50'
	1/2"	1/2" .94" 3/4" 1.25"	1.D. O.D. PRESSURE 1/2" .94" 150 PSI 3/4" 1.25" 150 PSI	I.D. O.D. PRESSURE RADIUS 1/2" .94" 150 PSI 6.0" 3/4" 1.25" 150 PSI 7.5"	I.D. O.D. PRESSURE RADIUS PER FT. 1/2" .94" 150 PSI 6.0" 0.27 lbs. 3/4" 1.25" 150 PSI 7.5" 0.44 lbs.	I.D. O.D. PRESSURE RADIUS PER FT. IN HG. 1/2" .94" 150 PSI 6.0" 0.27 lbs. - 3/4" 1.25" 150 PSI 7.5" 0.44 lbs. -

TUBE F.D.A., 3-A*, USP Class VI silicone - Platinum cured REINFORCEMENT 4 ply polyester fabric RECOMMENDED CLEANING CIP, SIP, Autoclave

COVER Solld white TEMP. RANGE - 100 to 395° F

SHF/SMW Wire Reinforced



A highly flexible hose that is especially easy to handle. A silicone hose reinforced with stainless steel wire. Designed for bulk transfer, high pressure, and vacuum process applications. (Meets 3A*, USDA, FDA and USP Class VI standards). Manufactured in a clean room environment and contains medical-grade platinum-cured silicone throughout, Ideal for proportioning and load cells.

I	MODEL	I.D.	0.D.	PRESSURE	RADIUS	PER FT.	IN HG.	LENGTH
	SHF/SMW050	1/2"	.94"	200 PSI	2.0"	0.30 lbs.	29"	24'
	SHF/SMW075	3/4"	1.18"	200 PSI	2.5"	0.40 lbs.	29"	24'
	SHF/SMW100	1"	1.46"	175 PSI	3.5"	0.53 lbs.	29"	24'
	SHF/SMW150	11/2"	1.93"	175 PSI	5.5"	0.67 lbs.	29"	24'
	SHF/SMW200	2"	2.44"	150 PSI	6.5"	0.88 lbs.	29"	24'

Call factory for sizes above 2 inches.

TUBE FDA, 3-A*, USP Class VI silicone - Platinum cured REINFORCEMENT 4 ply polyester fabric stainless steel wire RECOMMENDED CLEANING CIP, SIP, Autoclave COVER White translucent TEMP. RANGE - 100 to 395° F

SMD Multi-ply Discharge



A 4-ply, fabric reinforced hose designed for higher pressure applications, the inner diameter is a continuous extruded bore to ensure maximum smoothness and purity. (Meets 3A*, USDA, FDA and USP Class VI standards).

ctory for Avan			WORKING	MIN. BEND	WEIGHT	VAC.		
MODEL	I.D.	0.D.	PRESSURE	RADIUS	PER FT.	IN HG.	LENGTH	
SMD050	1/2"	.88"	150 PSI	3.0"	0.21 lbs.	27"	24'	
SMD075	3/4"	1.13"	150 PSI	4.0"	0.28 lbs.	24"	24'	
SMD100	1"	1.38"	150 PSI	7.0"	0.38 lbs.	20"	24'	
SMD150	11/2"	1.88"	100 PSI	12.0"	0.47 lbs.	17"	24'	
SMD200	2"	2.38"	100 PSI	30.0"	0.60 lbs.	14"	24'	

TUBE FDA, 3-A*, USP Class VI silicone - Platinum cured REINFORCEMENT 4 ply polyester fabric RECOMMENDED CLEANING CIP, SIP, Autoclave

COVER White translucent TEMP. RANGE - 100 to 395° F

SCT Non-reinforced Tubing (see page 12)

Traceability Solution...

for Silicone or Silicone covered hoses.

- Permanently Attached, No Product Contact
- · Completely Sealed, Easy to Read Text
- Autoclavable, CIP & SIP Compatable
- Label Contains Custom Information as Needed
- Ouick Turn-around with Customized Text Available

SML Molded Labels Ace Sanitary TSC ADDITIONAL COLOR/FONT COMBINATIONS AVAILABLE BLUE

ALL S-Series Products meet/comply: USP VI, USDA Class III requirements, FDA CFR Title 21 177.2600, 3-A 18-03 *The 3-A 62-02, standard applies only to assemblies of 3/4" diameter and larger.

WARNING: Working pressure ratings for all Flex-Rite™ Products are based on 70° F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For "S" series applications that exceed 250°F contact manufacturer for suggestions.



Most popular sizes shown, complete list available online



APT is ideal for pharmaceutical, biological, food and beverage applications and provides superior performance in peristaltic pumps. Extruded from virgin, medical grade TPR to precise dimensional tolerances and provides an excellent alternative to silicone tubing. APT is lot & batch traceable and can handle multiple autoclave cycles.

MODEL	I.D.	0.D.	WALL	LENGTH
APT187X375	3/16"	3/8"	3/32"	50'
APT250X500	1/4"	1/2"	1/8"	50'
APT375X625	3/8"	5/8"	1/8"	50'
APT500X750	1/2"	3/4"	1/8"	50'
APT750X1125	3/4"	1-1/8"	3/16"	50'

TUBE: 3-A* Class VI, FDA TPR RECOMMENDED CLEANING: Ethylene Oxide, Autoclave, Gamma TEMP. RANGE: -40 to +275° F



AST is also WELDABLE, designed and formulated to meet the critical demands of the medical, pharmaceutical, research, biotech and diagnostics industries. Our unique production method keeps the tubing round after autoclaving to insure better flow control in pumps and ease of welding.

MODEL	I.D.	0.D.	WALL	LENGTH
AST187X375	3/16"	3/8"	3/32"	50/100'
AST250X500	1/4"	1/2"	1/8"	50/100'
AST375X625	3/8"	5/8"	1/16"	50/100'
AST500X750	1/2"	3/4"	1/8"	50/100'
AST750X1000	3/4"	1"	1/8"	50/100'

TUBE: 3-A* Class VI, FDA TPE RECOMMENDED CLEANING: Ethylene Oxide, Gamma, Autoclave 275° F max. TEMP. RANGE: -100 to +250° F



SCT is a low-volatile grade, platinum-cured silicone tubing. Produced in an ISO Class 7 Clean Room specifically for use in critical biotech, pharmaceutical, cosmetic, biomedical and food applications. Works well as peristaltic pump tubing.

MO	DDEL	I.D.	0.D.	WALL	LENGTH
SCT18	7X375	3/16"	3/8"	3/32"	25/50/100'
SCT25	0X500	1/4"	1/2"	1/8"	25/50/100'
SCT37	5X625	3/8"	5/8"	1/8"	25/50/100'
SCT50	0X750	1/2"	3/4"	3/4"	25/50/100'
SCT75	0X1000	3/4"	1"	1/8"	25/50/100'

TUBE: Translucent Silicone, RoHS, 3-A+ CLASS VI - Platinum Cured

RECOMMENDED CLEANING: ETO, SIP, Autoclave, Gamma TEMP. RANGE: -90 to +430° F



APF is a Phthalate (DEHP) FREE vinyl tubing. Designed to be softer for use with laboratory equipment and vacuum lines. It also addresses the concerns of REACH compliance and meets USP Class VI testing.

MODEL	I.D.	0.D.	WALL	LENGTH
APF250X500	1/4"	1/2"	1/8"	100'
APF375X500	3/8"	1/2"	1/16"	50/100'
APF500X750	1/2"	3/4"	1/8"	50/100'
APF625X1375	5/8"	1-3/8"	3/8"	50/100
APF750X1000	3/4"	1"	1/8"	50/100

TUBE: 3-A* Class VI, FDA PVC RECOMMENDED CLEANING: Ethylene Oxide TEMP. RANGE: 25 to +150° F



ACT combines the outstanding characteristics of a chemically inert, USP Class VI certified clear liner of low density polyethylene (LDPE) with a high purity ethylene vinyl acetate (EVA) cover to produce flexible transparent tubing with very good burst strength.

MODEL	1.0.	0.0.	WALL	LENGIN
ACT250X375	1/4"	3/8"	1/16"	50"
ACT375X500	3/8"	1/2"	1/16"	50'
ACT500X625	1/2"	5/8"	1/16"	50'
ACT500X750	1/2"	3/4"	1/8"	50'
ACT750X1000	3/4"	1"	1/8"	50'

TUBE: Translucent LDPE, RoHS, REACH, 3-A* CLASS VI COVER: Translucent EVA

RECOMMENDED CLEANING: ETO TEMP. RANGE: -60 to +150° F

MODEL

^{*}The 3-A 62-02, standard applies only to assemblies of 3/4" diameter and larger.



PCT Clear Non-reinforced Tubing



FDA PVC transparent tubing is a clear extrusion that is compliant with 3A1, USDA2, USP3, Class VI, FDA4, NSF5 standards.

PBT Braid Reinforced Tubina



Flexible dear tubing with multiple polyester braids gives dependable reinforcement for all suitable applications and is compliant with 3A1, USDA2, USP3, Class VI, FDA4, NSF5 & RoHS6 standards.

PWT Wire Reinforced Tubina



A heavy-duty hose with steel wire helix rod reinforcement. suitable for milk handling and food processing. It is compliant with 3A1, USDA2, USP3, Class VI, FDA4, NSF5 & RoHS6 standards and provides high suction even in higher temperatures.

PBW Suction/Transfer Hose



PBW combines polyester braids with steel wire of the PBT & PWT hoses to provide the benefits of both. It's compliant with 3A1, USDA2, USP3, Class VI, FDA4 & NSF5 standards.

PHH Suction/Transport Hose





A clear hose, reinforced with white helix rod is compliant with 3A1, USDA2 and FDA4 standards. It provides extreme low temperature flexibility, ideal for use in milk hauling.

PHC Suction/Transfer Hose



A clear hose, reinforced with clear helix rod is compliant with 3A1, USDA2 and FDA4 standards. Suited for in-plant environments, its low temperature flexibility is perfect for all liquid dairy or dry product transfers.

Note: PHH & PHC available with reusable fittings only

*The 3-A 62-02, standard applies only to assemblies of 3/4" diameter and larger.

WARNING: Working pressure ratings for all Flex-Rite™ Products are based on 70° F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For "P" series applications that exceed 100"F contact manufacturer for suggestions

P-Series hoses are Phthalate (DEHP) FREE

I.D.	0.D.	PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	IN HG.	LENGTH
1/2"	.75"	45 PSI	(-)	.13 lbs.	2	100'
3/4"	1.12"	40 PSI	-	.30 lbs.	55	100'
1"	1.37"	35 PSI	-	.38 lbs.		100'
11/2"	1.87"	35 PSI	-	.54 lbs.	-	50'
2"	2.50"	35 PSI	-	.96 lbs.	5	50'
	1/2" 3/4" 1" 1 ¹ /2"	1/2" .75" 3/4" 1.12" 1" 1.37" 1 ¹ /2" 1.87"	1/2" .75" 45 PSI 3/4" 1.12" 40 PSI 1" 1.37" 35 PSI 11/2" 1.87" 35 PSI	I.D. O.D. PRESSURE RADIUS 1/2" .75" 45 PSI - 3/4" 1.12" 40 PSI - 1" 1.37" 35 PSI - 11/2" 1.87" 35 PSI -	I.D. O.D. PRESSURE RADIUS PER FT. 1/2" .75" 45 PSI - .13 lbs. 3/4" 1.12" 40 PSI - .30 lbs. 1" 1.37" 35 PSI - .38 lbs. 11/2" 1.87" 35 PSI - .54 lbs.	I.D. O.D. PRESSURE RADIUS PER FT. IN HG. 1/2" .75" 45 PSI - .13 lbs. - 3/4" 1.12" 40 PSI - .30 lbs. - 1" 1.37" 35 PSI - .38 lbs. - 11/2" 1.87" 35 PSI - .54 lbs. -

TUBE FDA, 3-A*, USP Class VI, PVC

REINFORCEMENT Clear extrusion no reinforcement

COVER Clear TEMP. RANGE 25 to 150°F

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
PBT050*	1/2"	.81"	200 PSI	-	.13 lbs.	-	100'
PBT075	3/4"	1.12"	150 PSI	-	.22 lbs.	-	100'
PBT100	1"	1.37"	125 PSI		.30 lbs.	-	100'
PBT150	11/2"	1.94"	100 PSI	-	.64 lbs.	-	100'
PBT200	2"	2.49"	75 PSI		.94 lbs.	-	100'

TUBE FDA, 3-A*, USP Class VI, PVC

REINFORCEMENT Clear extrusion with polyester textile inner braid

COVER Clear TEMP, RANGE 25 to 150° F

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
PWT050*	1/2"	.81"	150 PSI	2.0"	.21 lbs.	29"	100'
PWT075	3/4"	1.12"	150 PSI	3.0"	.36 lbs.	29"	100'
PWT100	1"	1.37"	100 PSI	4.0"	.44 lbs.	29"	100'
PWT150	11/2"	1.86"	50 PSI	6.0"	.58 lbs.	29"	50'
PWT200	2"	2.39"	50 PSI	8.0"	.84 lbs.	29"	50'
PWT250	21/2"	3.00"	50 PSI	10.0"	1.38 lbs.	29"	50'
PWT300	3"	3.50"	50 PSI	12.0"	1.64 lbs.	29"	50'

TUBE FDA, 3-A*, USP Class VI, PVC

REINFORCEMENT Clear extrusion with steel wire helix

COVER Clear TEMP. RANGE 25 to 150° F

MODEL	I.D.	0.D.	WORKING PRESSURE	MIN. BEND RADIUS	WEIGHT PER FT.	VAC. IN HG.	LENGTH
PBW050*	1/2"	.90"	250 PSI	2.0"	.26lbs.	29"	100'
PBW075	3/4"	1.19"	225 PSI	2.5"	.40 lbs.	29"	100'
PBW100	1"	1.45"	225 PSI	3.5"	.52 lbs.	29"	100'
PBW150	11/2"	2.03"	175 PSI	5.5"	.86 lbs.	29"	50'
PBW200	2"	2.60"	150 PSI	7.0"	1.28 lbs.	29"	50'

TUBE FDA, 3-A*, USP Class VI, PVC

REINFORCEMENT Electro-galvanized steel wire helix polyester textile inner braid TEMP. RANGE 25 to 150° F

COVER Clear

MODEL	I.D.	0.D.	PRESSURE	RADIUS	PER FT.	IN HG.	LENGTH
PHH150	11/2"	1.79"	75 PSI	4.0"	.45 lbs.	28"	100'
PHH200	2"	2.33"	75 PSI	5.0"	.65 lbs.	28"	100'
PHH250**	21/2"	2.87"	55 PSI	8.0"	.84 lbs.	28"	100'
PHH300**	3"	3.42"	55 PSI	11.0"	1.18 lbs.	28"	100'
TUBE FDA, 3-A*	, UHMW-	PVC			COVER Clear		

REINFORCEMENT White wire helix

TEMP. RANGE -40 to 150° F

MODEL	I.D.	0.D.	PRESSURE	RADIUS	PER FT.	IN HG.	LENGTH
PHC100	1"	1.28"	100 PSI	3.0"	.24 lbs.	29"	100'
PHC150	11/2"	1.80"	85 PSI	6.0"	.50 lbs.	29"	100'
PHC200	2"	2.36"	85 PSI	8.0"	.71 lbs.	29"	100'
PHC250**	21/2"	2.88"	65 PSI	10.0"	.94 lbs.	29"	100'
PHC300**	3"	3.42"	55 PSI	11.0"	1.14 lbs.	29"	100'
THE FOL 2 4	e manage	DIAC.			COURD Class		

TUBE FDA, 3-A*, UHMW-PVC REINFORCEMENT Clear helix

COVER Clear TEMP, RANGE -4 to 150°F

¹³A-The PVC compound complies with the criteria in 3-A Sanitary Standards for Multiple-Use Plastic Materials, number 20. USDA - The PVC hose has been found chemically acceptable for use in slaughtering, processing, transporting, or storage areas in direct contact with meat or poultry food product prepared under Federal Inspection.

^{*}USP - The PVC compound has been tested and meets the requirements of the USP guidelines, for Class VI Plastics.

FDA - The PVC ingredients used are sanctioned for food contact use under CFR title 21, parts 170-199 or FD&C Act, section 409(h), notifications relating to food contact substance.

HSF - The hose is certified under NSF/ANSI standard 51: Food Equipment Materials. The inner surface PVC Material is also certified as Pipes and Related Products under NSF/ANSI standard 61: Drinking Water System

^{**}Bulk Only (Fittings not available)



IWD

Washdown



Designed for cleanup duties in dairies, creameries breweries, food, beverage, meat and poultry processing plants. This is an economical, high quality hose capable of handling hot water up to 200° F. The extruded construction provides for excellent handling and flexibility. Abrasion resistant, non-marking cover maintains its sanitary appearance.

MODEL	1.0.	0.0.	WORKING PRESSURE	WEIGHT PER FT.
IWD075	3/4"	1.17"	300 P51	.40 lbs
TUBE Block Fi	POIA		COVER Wh	ite FPDM

THRE REACH FROM REIN FORCEMENT livo synthetic rextile spiral cords

TEMP, RANGE -20 to 200° F

See RWD on page 6 for an FDA option to IWD -

ISH Steam



A rugged, abrasive and blister resistand hose for cleaning pumps, valves, tubing and equipment suitable for steam. Stands up to the harshest of environments with a specially formulated tube and cover that will not harden or crack during normal service. The steel braid reinforcement provides for safe use with steam pressures up to 250 PSI at 430° F.

MODEL	1.0.	0.D.	PRESSURE	PER FT.
ISH075	3/4"	1.25"	250 PSI	.48 lbs
TUBE Black (hiorobutyi	ald	COVER Red	EPON CE 1010 1202 E

WORKING

WEIGHT

- Requires a Special Fitting consult factory -

Steam Hose Safety Facts

Working with steam can be very hazardous. Safety precautions should be observed when handling to minimize or eliminate personal injury or property damage.

Selection and use of steam hoses

- Make sure steam hose is identified as a steam hose. It should be identified, stating working pressure and temperature rating.
- Make sure working pressure and temperature is not exceeded.
- Do not allow hose to remain under pressure when not in use.
- Avoid excess bending or flexing of hose near the coupling. Straight line operation is preferred. If bends are necessary as part of operation, spring guards may help.

Maintenance Procedures

- Periodic inspection of hose should include looking for cover blisters and lumps
- Check for kinked areas that could damage hose.
- Drain hose after each use to avoid tube damage before hose is put back in operation, to avoid "pop corning" of the tube.
- · Do not store hose over hooks.
- · Steam hose lying on metal racks or installed around steel piping will dry out the hose, causing and cover cracking.

For quickest response, send ALL request for quotes and purchase orders to: sales@acesanitary.com

Represented is water when subjected to heat and pressure. Use only hoses specifically designed for each application.



CATHDATED CTEAM

450	eam	Hos	e Ch	art	7
400°					
TEM PERATURE 300c				The State of the S	2
250°	50 1 GUAGE			200	250

SAIUKAIED SIEAM					
Guage Pressure (PSI)	Temp. of Saturated Steam (F°)				
10	239				
25	257				
50	298				
75	320				
100	338				
125	353				
150	366				
175	377				
200	385				
225	400				
250	413				



Specialty Molded & Jacketed Hose



Application: Customizable, flexible flow panel jumper that flex's due to expansion / contraction and ground movement. This flexibility allows for easy connection every time, which minimizes operator time connecting to the panel.

Tube: White FDA, 3-A Chlorobutyl

(Other compounds available: Silicone, EPDM, Nitrile, Viton)

Reinforcement: Spiral plied synthetic fabric w/wire helix

Cover: EPDM

(Other compounds available: Silicone, Chlorobutyl, Nitrile, Viton)

Temp. Range: -40 to 225° F Working Pressure: 200 PSI

Recommended Cleaning: CIP, COP

Sizes: 3/4" thru 6" I.D.

End Connections: Refer to Ace Sanitary catalog or website: acesanitary.com

Options: Cover colors, compounds, reinforcement, sample valves, proximity switches. Other options available upon request, consult factory.

_**WJ** Water Jacketed Hose



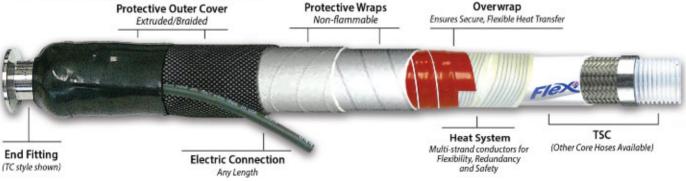
(Water Jacket can be added to any Flex-Rite hose)

CIP Insulated Hose



(Custom Insulation Package can be added to any Flex-Rite hose)

EHH Electrically Heated Hose Assemblies



EHH is custom manufactured for a variety of applications to keep product flowing. Compared to single conductor heating elements, the **EHH** provides optimal heat transfer to a large (95%) surface area. Individual strand conductors are fixed in place and insulated with flexible, high-temperature fiber. The "Overwrap" layer of silicone rubber secures the conductors and provides a flexible cushion.



Applications:

- Gel Cap Production Packaging Industry
- Photographic Development Solutions
- · Hot Oil Transfer
- · Cosmetic Transfer
- · Candy Manufacturing
- · Chemical Transfer Testing
- · Pharmaceutical Slurries
- · Hot Fill
- Food Transfer (FDA approved)

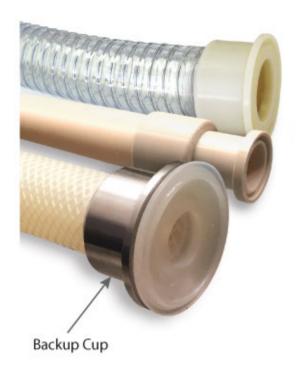
Ace's proprietary Seal-Rite fittings are available in a wide range of end styles.

To order RMH or EHH contact the factory to discuss your specific application.



Assembly Types *Molded Hose*

Molded Ends



Hose/Tube (example)



Single pin polysulfone clamps are lightweight and molded to provide even closing pressure. These clamps are highly recommended over standard steel version for molded hose ends.

SPP075 - all mini clamps SPP150 - 1 & 1.5" clamps SPP200 - 2" clamps SPP250 - 2.5" clamps SPP300 - 3" clamps

Molded Ends

Designed to provide the ultimate in sanitary flow the "Crack and crevice free" ends come in a variety of configurations on Ace Sanitary "P" series hose using ultra high purity Hytrel. Applications include instances where the process demands no stainless steel wetted parts, lighter weight and OEM applications.

For our "A" series tubing molded ends are available in Polypropylene, Hytrel and Polysulfone depending on the materials involved. Popular end styles would be Tri-Clamps, I-Lines, threaded ends and bevel seats.

For silicone products we would offer silicone tri-clamp molded ends with either stainless steel or polysulfone back up rings or cups. Generally, molded ends also provide cost savings.

Note: For all molded ends in sanitary styles Molded plastic clamps are recommended as they provide 360 degrees of pressure vs. SS cast clamps that only provide a few pressure points in the circumference of the tri-clamp or I-line flanges.

Molded Assembly Part Number

(Example)

					,
M /	APT	050	TC050	TC050	OAL
Molded End	Hose/Tube	I.D. Size	Style/Size 1st End	Style / Size 2nd End	Length"
	ACT	025	TC	TC	
	APF	037	MT*	MT*	
	APT	050	FT*	FT*	
	AST	075	IM*	IM*	
	PBT	100	IF*	IF*	
	PCT	150	BS*	BS*	
	PWT		CM*	CM*	
	PHC			CONCULT EACTORY FOR ADDITIONA	I CHOICES
	PHH		For	CONSULT FACTORY FOR ADDITIONAL CHOICES For quickest response, send ALL request for quotes and	
	SCT P - Poly Backup Cup SSD S - SS Backup Cup			purchase orders to: sales@acesanitary.com	
				Overall length tolerances for assemblies are: • 1/4" on assemblies to 24"	

- 1/4" on assemblies to 24"
- 1/2" on assemblies to 25" to 60"
- 1% on assemblies over 60"

^{*} limited sizes & materials. Consult factory





Reusable Sanitary Fitting



BULK PART NO.	HOSE SIZE	CLAMP SIZE	O.D.	I.D.
SR050-TC	.50"	.50" MINI TC	.986"	.370"
SR075-TC	.75"	.75" MINI TC	.986"	.620"
SR100-TC	1.00"	1.00" TC	1.984"	.870"
SR150-TC	1.50"	1.50" TC	1.984"	1.370"
SR200-TC	2.00"	2.00" TC	2.516"	1.870"
SR250-TC	2.50"	2.50" TC	3.047"	2.370"
STEP UP SIZES AI	ND OTHER END STY	LES AVAILABLE		

Field Attachable

Easy to assemble 3 pc reusable fittings with full traceability designed specifically for most Flex-Rite A. S & P-Series hose.

Lightweight, versatile, works with most hose types and wall thickness. Patent Pending and 3-A* Approved.

Suitable for use with Biotech, High Purity Water, Pharmaceutical, Food & Beverage, Personal Care, Electronics and Potable Water.

DELRIN





1/4" on assemblies to 24"

1% on assemblies over 60"

1/2" on assemblies to 25" to 60"



Internal Finish: 15 RA or Better, Electropolishing standard. Material: Type 316L Stainless Steel Insert with Delrin nut and sleeve Options: Custom Size Variations, Styles, Colors Available. Note: Step up Sizes Available

*Compliant with standards for Replacement Part Certification 62-02

PBT

PWT

PCT

ReUsable Assembly Part Number (Example)

TC100 RE / S / SSD 100 TC100 XX 144 ReUsable Nut Mat'l Hose/Tube I.D. Size Style/Size 1st End Style / Size 2nd End Length" Special Services S APT 025 = 1/4" TC = Sanitary Clamp (stepup available) 037 = 3/8"304 SS APF TE = Butt Weld - Tube ADL 050 = 1/2" B SCT 062 = 5/8" Other Styles Available (consult factory) Blue 075 = 3/4" SSD Polymer 100 = 1"SDB SXD 150 = 1-1/2" Colors SXW 200 = 2"Available SMW CONSULT FACTORY FOR ADDITIONAL CHOICES (MIN. REQ'D) SMD For quickest response, send ALL request for quotes and PHH purchase orders to: sales@acesanitary.com PHC Overall length tolerances for assemblies are: SCT



Hose Length Measurements

Ace Sanitary hose assemblies are generally measured from end to end. The exceptions to this practice are illustrated at left. JIC Female Swivel, Female Cam & Swivel, and Sanitary Bevel Seat fittings are measured lengthwise from the sealing surface of the fitting.

Length Tolerance

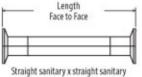
Up to 24" OAL assemblies: 1/4" (.250") Over 24" up to 60": 1/2" (.500")

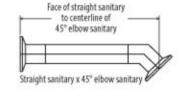
Over 60": 1%

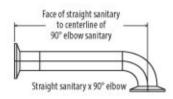


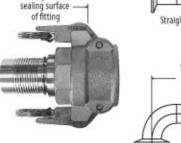
Length to

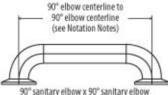
The following illustrations show how to measure the overall length (OAL) of Ace Sanitary hose assemblies, including 45° and 90° elbow fittings. Examples are shown with clamp style sanitary fittings.

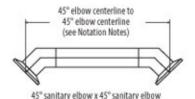


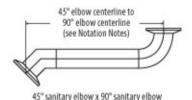


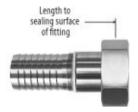










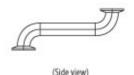


Rotation Notes:

When ordering double elbow hose assemblies, angular orientation between the elbosw is expressed in degrees. The angle is measured counterclockwise from the centerline of the nearest fitting when the fitting is positioned at 6 o'clock to the centerline of the other fitting, as shown at right.

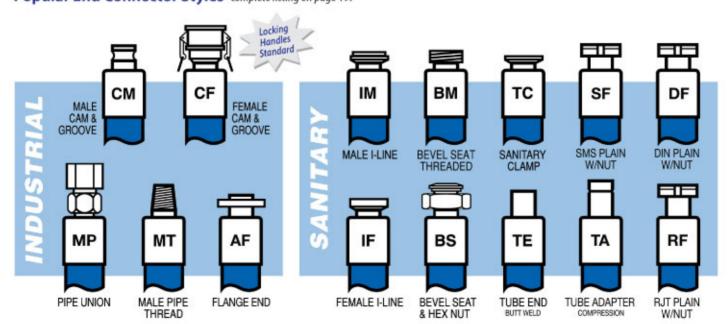


(Front view) Angle orientation measured in degrees (counterclockwise)



180° configuration

Popular End Connector Styles Complete listing on page 19.







Assembly Part Number

(Example)

RSD 050 TC 050 TC 050 288

Hose

I.D. Size

Style / Size 1st End

Style / Size 2nd End

Assembly Length (INCHES)

Hose	I.D. Size	End Style
DDC	025 - 1/4"	TC - Canita

RDC	025 = 1/4"	TC = SanitaryClamp (stepup a
RBT	037 = 3/8"	TE = Butt Weld - Tube
RES	050 = 1/2"	BS = Bevel Seat - Plain w/nut
RWD	062 = 5/8"	BM = Bevel Seat - Threaded
RSD	075 = 3/4"	IF = I - Line - Female
RCT	100 = 1"	IM = I - Line - Male
RCR	150 = 1-1/2"	JM = John Perry - Threaded
RWS	200 = 2"	JF = John Perry - Plain w/nut

250 = 2-1/2" SMW 300 = 3"SMD 400 = 4"SSD

SDB 600 = 6"SHF

TSB See **TCB** Product TCP

TSC **Pages TSP** for PCT Sizes **PBT**

FRH **FDF** FPE

FGS

PWT

PBW

TRS

vailable)

OM = O - Line

CF = Cam - Female CM = Cam - Male

MT = Male - NPT Pipe Thread FT = Female - NPT Pipe Thread

AF = Flange End

FF = BSM - Flat Face Plain w/nut FM = BSM - Flat Face Threaded

RF = RJT - Plain w/nut

RM = RJT-Threaded SF = SMS - Plain w/nut

SM = SMS - Threaded

DF = DIN - Plain w/nut

DN = DIN - Threaded TA = Compression Tube End

END STYLE



CONSULT FACTORY FOR ADDITIONAL CHOICES

For quickest response, send ALL request for quotes and purchase orders to:

sales@acesanitary.com

Overall length tolerances for assemblies are:

- 1/4" on assemblies to 24"
- 1/2" on assemblies to 25" to 60"
- 1% on assemblies over 60"



General Hose

Installation Information

Chemical Charts are located on our website

Prior to Installation

inspect hose completely for signs of obvious damage. Possible damage may include cuts to cover, kinking, broken braids and crushing. This damage can reduce hose life and pressure rating.

Do Not Use any damaged hose.

Hose should be application specific. Review materials, pressures, chemical compatibility, temperature and envirnment to ensure proper selection of hose.

- Failure of hose will occur when hose is bent (Fig. 1) beyond minimum bend radius. Bend radii are given for individual products and sizes. The bend radius values must be observed (measure to inside radius of fluoropolymer-lined hose and the centerline for stainless steel metal hose) for hoses to be installed properly. Occasionally, vacuum and pressure ratings are based on not to exceed 2% minimum bend radius. The manufacturer should be contacted for specific hose rating and data.
- Restrict hose movement to a single plane (Fig. 2) to minimize resultant twisting or torque. Within the bending plane is where flexing should occur. Stress fatigue increases with excessive bending of hose.
- Axial or twisting movement (Fig. 3) should be eliminated. The likelihood
 of leakage or failure increases for hoses that are twisted (torqued) during
 assembly. Floating flanges or swivel-type fittings (i.e., JIC) can eliminate
 improper twisting.
- Avoid stretching or compressing the hose (Fig. 4) along its longitudinal axis with in-line installation.

Motion Calculations

Axial Motion: Motion that occurs when a hose is compressed along its longitudinal axis. Axial motion is only applicable in very short lengths of annular hose only. Fluoropolymer lined hose should not be subjected to axial motion.

Offset Motion: Motion that occurs when one end of the hose is deflected in a plane perpendicular to it's longitudinal axis with the ends remaining parallel. In offset applications where motion is repeated, the offset should never exceed 25% of the minimum bend radius. To calculate the required live length to achieve a desired offset, use the following calculations:

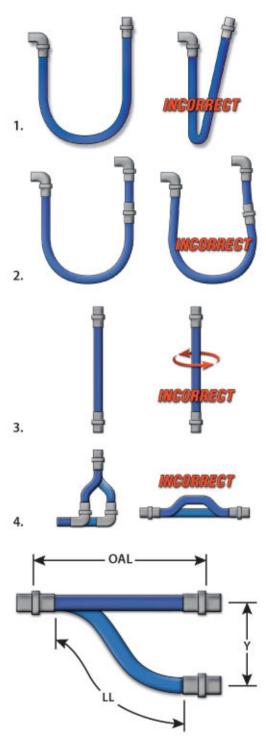
 $LL = \sqrt{6YR + Y^2}$

LL = Hose live length, inches

R = Min. Bend Radius, inches

Y = Offset, inches

OAL = LL + Fittings Length + (2x nominal hose diameter)



Note: Where offset motion "Y" occurs on both sides of hose centerline, the hose live length should be based on total travel, or 2Y. The modified calculation will be:

$$LL = \sqrt{12YR + (2Y)^2}$$



Bend Radius (fluoropolymer hose and all rubber hose)

. The radius of a bent section of hose measured to the innermost surface of the curved portion (R1)

Bend Radius (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 specific radius - a measure of stiffness

Maximum Rated Working Pressure

The maximum pressure hoses should be subjeted to on a continous basis

Maximum Rated Test Pressure

. The maximum rated pressure is multiplied by 150%

Nominal Rated Burst Pressure

. The average pressure at which the core of 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

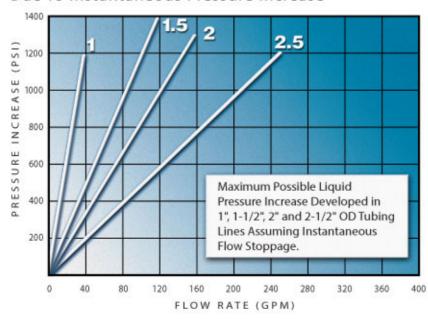
Flexibility / Bend Radius Reprinted from RMA Hose Handbook IP-2 Fourth Edition

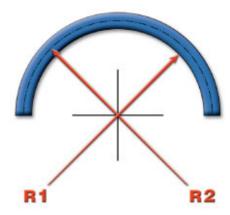
Flexibility and minimum bend radius are important factors in hose design and selection if it is known that the hose will be subjected to sharp curvatures in normal use. When bend at too sharp an angle, hose may kink or flatten in the cross-section. The reinforcement may also be unduly stressed or distorted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

Hydraulic Shock...

Due To Instantaneous Pressure Increase





Bend Radius All (except Metal Hose) Measure to inside radius

Bend Radius for Metal Hose, Measure to centerling radius

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 equally along this portion of hose length)

A = Angle of bend

B = Given bend radius of hose

 $\pi = 3.14$

Example: To make a 60° bend at the hose's rated minimum bend radius of 15 cm

Thus, the bend must be made over approximately 16 cm of hose length. The bend radius used must be equal to or greater than the rated minimum bend radius. Bending the hose to a smaller bend radius than minimum may kink the hose and result in damage and early failure.

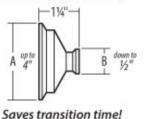


Reducers & Hose Support

Seal-Rite™ Guage Reducer



For available sizes: Please contact the factory

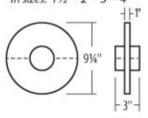


The Seal-Rite Guage Reducer provides easy and quick transition for a variety of applications. These reducers are machined from 316L Stainless Steel and are permanently marked with heat number. They are electropolished in compliance with the highest sanitary standards. These reducers provide solutions when standard concentric reducers aren't condusive for tight, confined areas.

Seal-Rite™ Hose Support



For use with: RSD, RDC, RES, RCR, RCT, RWS, RWS-L In sizes: 11/2" - 2" - 3" - 4"



The Seal-Rite Hose Support provides additional protection for your transfer hoses. In environments where abnormal cover wear can occur, you can lift up and extend the life of your hose. The two halfs easily attach with two recessed locking screws. The lightweight design, wide outer edges and even wider collar provides stability which eliminates kinking. Our supports are ideal for use in receiving bays to eliminate damming or pooling water.

Seal-Rite™ Fitting Bumper



For available sizes: Please contact the factory

BUMPER should be installed during assembly

Protect Your Investment The Seal-Rite Fitting Bumper provides additional protection for your floors and fittings. The bumper elevates the fitting while absorbing the occasional mishap.

This product is a "Special Order" and a Minimum Order" item. Consult factory about ordering.

Hose Sling is a polyurethane saddle designed to

Hose Sling Hose Support



Protect Your Investment

suspend hoses. Each model comes complete with its own UV treated sling which is fastened in a choker position. Designed to accommodate the OEM's minimum bending radius to protect hose from kinking and prolong the life of the hose.

Vue-Gard Protective Shield



These "See-Thru" shields withstands temperatures up to 300°F and pressure to 1000 PSI

Special fabrication for flow indicators, pressure vessels, heat exchangers and various instruments used in process industries.

Vue-Gard Shields provide for visual inspection of joints, indicators, and flanges. The shield prevents hazardous sprayouts and contributes to a safe work environment. Constructed of a secially designed TFE and clear ECTFE to enable clear viewing.

An impregnable barrier that is ideally suited for use in chemical, pharmaceutical, pulp and paper, and refinery operations.



Molded Labels, Racks & Custom Fabrication

Traceability Solution...

for Silicone or Silicone covered hoses.

- · Permanently Attached, No Product Contact
- · Completely Sealed, Easy to Read Text
- · Autoclavable, CIP & SIP Compatable
- Label Contains Custom Information as Needed
- Ouick Turn-around with Customized Text Available





Stainless Hose Racks

Proper hose storage is critical to maintain the working life of hose assemblies. Stainless Space™ Hose Racks are the perfect solution to organizing your sanitary hose assemblies. When used properly, these



Racks ensure that each hose is stored in accordance with the manufacturer's recommendations.

Features & Benefits

- · Compact designs for use in any clean environment.
- Extends hose working life and ensures 100% drainage.
- Eliminates clutter and enhances safety.
- · Stores hoses, clamps gaskets and adapters in one convenient location.
- Conforms with FDA and 3A regulations for hose storage.

For quickest response, send ALL requests for quotes and purchase orders to: sales@acesanitary.com

Stainless Steel Fabrications and Customs Designs Include:

Container & Utensils

- Trays
- Funnels
- Pans
- Samplers

Ladders

Non-folding

Work Tables

- · Heavy Duty
- Meets Sanitary Specs
- Variety of Configurations

Stools

· Functional & Dependable

Custom Furniture

- Cabinets
- Cupboards
- Carts
- Bench Tops

"Mobile" Hose Rack





Equipment

Testing, Production, Marking



This test bench assures that your assembly has been joined correctly. The programmable PLC Controller gives the operator the ability to pre-program and repeat a test sequence. (optional save to USB)

Cutoff Saws

These rugged, dependable saws offer features not found on other saws. choose the one with the capabilities and features which meet your individual requirements.

Molded Label Machines

Equipment to make permanent labels on silicone or silicone covered hose. Label can contain part number, date, serial number or custom information as needed.





MINI/ase"

The MLM fiber laser system packs a powerful punch and gives users maximum application flexibility. Front mounted controls make operation simple.

A USB connection to a laptop or desktop PC is all that is required to start programming. Quickly mark text, barcodes, serial and date codes graphics and more.



Ace Sanitary

Equipment

Washdown, Crimpers

Washdown Station

The Ace Sanitary Washdown Station delivers a high temperature wash down using a proprietary mixing valve that combines steam and water for a constant stream at the operator's set temperature.

The intuitive safety shutoff feature essentially eliminates the "hose full of steam" problem of the past, decreasing hazardous conditions.

With a single moving part, the thermal actuator within the mixing valve cartridge, the Ace Sanitary Washdown Station ensures long, uninterrupted use and silent operation, even in high mineral content water conditions.

The HCX (Hot/Cold Water Mixing) Station combines simplicity and cost effectiveness with the reliability and safety inherent in all washdown stations by

Ace Sanitary

Ace Sanitary

For quickest response, send ALL requests for quotes and purchase orders to: sales@acesanitary.com

Flex-Crimp™ brand of crimpers is a powerful machine capable of crimping a variety of sanitary, hydraulic, composite and industrial hoses. All Flex-Crimp models come standard with a guick change tool for guick and easy die changes. The touch screen crimp controller





The Flex-Crimp system continuously crimps to within .005" everytime, the Flex-Crimp line of products offers the most consistent crimp in the market today and comes with a one year manufacturer's warranty.



The CC38 crimper with 240 ton crimping force has the capacity to crimp 1 1/4" multi spiral hydraulic hose and 2" industrial hose.

STAMPED

This acronym that will assist you in specifying the correct hose and fitting.



Identify the I.D. (inside diameter) of the hose



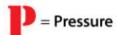
Identify both working (product being transfered) and cleaning temperatures



Identify how the hose assembly will be used: equipment type and environmental conditions



Identify all fluids being transfered (product & cleaning) to choose chemically-compatible materials



Identify both working & cleaning (maximum) pressures to assure proper hose selection



Identify the connection type and allignment needed



Identify any special packaging or delivery needs for hose shipment

Cautionary Statement

All products are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or products for the intended purposes, uses or applications.

Purchaser shall follow all instructions contained in sellers catalogs, brochures, technical bulleting and other documents regarding the product. Purchasers or users of the products should frequently and consistently undertake inspections and protective measures with respect to the use and application of products, which should include the examination of tube and cover, conditions of the hose or tubing and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

Limited Warranty

The merchandise or products sold or distributed by seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions. Unless otherwise specified, all warranty claims shall be made within six(6) months after product ship date by seller - see packing slip for details. Seller's liability hereunder is limited to the purchase price of any products proving defective, or at seller's option, to the replacement of such products upon which its authorized return to seller.

This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to, the warranty of merchantability and the warranty of fitness for a particular purpose. In no event shall seller or manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and /or the manufacturer of the product, unless specifically provided herein. In addition, this warranty shall not apply to any products or portions thereof which have been subjected to abuse, misuse, improper installation, maintenance or operation, electrical failure or abnormal conditions, and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by seller, or used in any manner inconsistent with the provisions of the "cautionary statement" above.

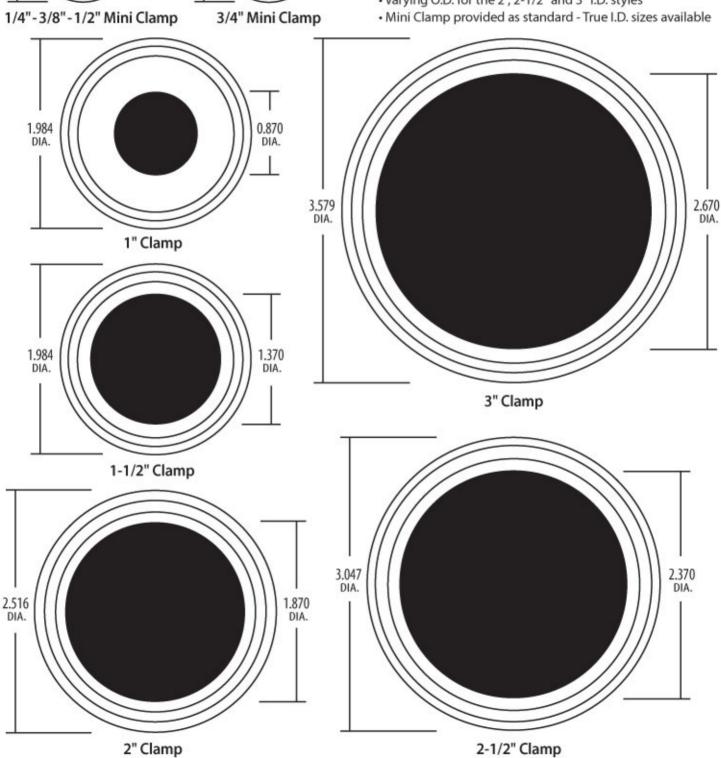


Sanitary Clamp Fitting



These actual-size drawings are provided for your convenience and ordering accuracy when specifying sanitary fittings.

- 0.984" O.D. is the same for 1/2", 3/4" I.D. styles
- 1.984" O.D. is the same for 1" and 1-1/2" I.D. styles
- · Varying O.D. for the 2", 2-1/2" and 3" I.D. styles



0.620

Product Specific Literature is available on our Website



For quickest response, send ALL request for quotes and purchase orders to: sales@acesanitary.com



Visit acesanitary.com for new additions and most up-to-date product information DISTRIBUTED BY:

