

PureFlex Product Integration

DEMAND PUREFLEX QUALITY



**PLATINUM CURED
SILICONE**
HIGH PURITY HOSES AND FITTINGS



PLATINUM CURED



PureFlex high purity platinum cured silicone hose is manufactured from Biopharmaceutical grade elastomer meeting or exceeding Pharmacopeia USP 23 class VI, FDA 21CFR-177.2600, USDA and 3A criteria. Our hose is designed for maximum flexibility when utilized in fluid transfer, filling and moving in pharmaceutical and biotech manufacturing processes. PureFlex Silicone hose offers high tear resistance, will impart no taste or odor and its hydrophobic properties make it ideal for use in medical, semiconductor, cosmetics, food, beverage and dairy industries. PureFlex Silicone hose is available in PC65-B Polyester Braid reinforced and PC65-W wire reinforced with polyester or Nomex® braid reinforcement. Sizes range from 1/4" to 4" diameter with temperatures ranging from -75 °F (-60 °C) to 500 °F (260 °C).

PC65-W SERIES

WIRE REINFORCED

PureFlex PC65-W series hose has an ultra-smooth inside diameter core that is wrapped with Polyester braid reinforcement or Nomex® braid reinforcement and a S.S. wire, designed for maximum flexibility in high pressure and vacuum services.

APPLICATIONS

- Pharmaceutical and Biotechnological processes
- Ultra-pure liquid transfer
- Food and beverage transfer
- Bulk transfer
- Load cell applications
- Vacuum applications

FEATURES

- Available in 12 foot lengths
- -45 °F to 350 °F temperature range
- Excellent flexibility
- No organic plasticizers, phthalates or latex additives
- Imparts no taste or odor
- Non-wettable (hydrophobic)
- Sterilizable & Autoclavable

Part Number	Nominal ID (in) (mm)	Nominal OD (in) (mm)	Working Pressure PSI	Burst Pressure PSI	Min. Bend Radius (in)	Vacuum Rating (in.hg)	Weight lbs/ft
PC65-W-0500	.50 (12.7)	.86 (21.8)	225	900	2.00	29.9	.30
PC65-W-0750	.75 (19.1)	1.11 (28.2)	225	900	3.50	29.9	.40
PC65-W-1000	1.00 (25.4)	1.36 (34.5)	225	900	5.00	29.9	.45
PC65-W-1500	1.50 (38.1)	1.86 (47.2)	200	800	6.00	29.9	.75
PC65-W-2000	2.00 (50.8)	2.36 (59.9)	150	600	9.50	29.9	1.00
PC65-W-2500	2.50 (63.5)	3.00 (76.2)	150	600	11.5	29.9	1.25
PC65-W-3000	3.00 (76.2)	3.50 (88.9)	125	500	15.0	29.9	1.40
PC65-W-4000	4.00 (101.6)	4.68 (118.9)	90	360	23.00	29.9	2.10

Pressure and vacuum ratings based @ 70 °F (21 °C)
Burst pressure will decrease 10% for each 200 °F (37 °C) increase

SILICONE HOSE & TUBING

CLEANING & STERILIZATION

IT IS THE END USER'S RESPONSIBILITY TO COMPLETE THE CLEANING AND STERILIZATION VALIDATION PROCESS. TESTING SHOULD BE CONDUCTED BY THE END USER IF STERILIZATION CONDITIONS VARY AND IF MINOR PHYSICAL PROPERTY CHANGES OF TUBING COULD AFFECT PROCESS PERFORMANCE. IT IS THE END USER'S RESPONSIBILITY TO ENSURE THAT PUREFLEX HOSE PRODUCTS ARE SAFE, EFFECTIVE AND SATISFACTORY FOR ANY INTENDED USE.

CLEANING

Silicone hoses can be cleaned with hot water and mild surgical soap. Synthetic detergents or oil based soaps should not be used as they may be absorbed and subsequently leach out into the process fluid. Rinse thoroughly in running purified (distilled) water. Autoclave before interior becomes dry.

AUTOCLAVE (STEAM STERILIZATION)

Silicone hoses can withstand all common steam autoclave sterilization cycles without adverse effects to the product. Standard gravity steam cycles and high steep flash sterilization may be used.

ETHYLENE OXIDE STERILIZATION

Silicone hoses can withstand sterilization with Ethylene Oxide with no degradation of physical properties. It is recommended only if qualified by the end user for normal ETO cycles, and complete aeration and outgassing times have been set.

GAMMA RADIATION STERILIZATION

Silicone hose can withstand gamma radiation within the end user's qualified levels up to 2.5 Mrad (25KGy). Repeated cycles or higher doses may change some physical properties; such as increase in durometer and tensile modulus, and potential slight decrease in tear strength and elongation.

PC65-B SERIES

POLYESTER BRAID REINFORCED

PureFlex PC65-B series hose incorporates strong polyester braid between extrusions of platinum cured silicone. PB65-B is super flexible and can handle much higher pressures than non-reinforced silicone tubing.

APPLICATIONS

- Pharmaceutical and Biotechnological processes
- Ultra-pure liquid transfer
- Cell cultures
- Food and beverage transfer
- Dairy applications
- Bulk transfer
- Load cell applications
- Pump applications

FEATURES

- Available in 33-foot lengths. Longer, customized lengths can be made
- (-)76 °F to 356 °F
- Excellent flexibility
- No organic plasticizers, phthalates or latex additives
- Imparts no taste or odor
- Non-wettable (hydrophobic)
- Sterilizable & Autoclavable



Part Number	Nominal ID (in) (mm)	Nominal OD (in) (mm)	Working Pressure PSI	Burst Pressure PSI	Min. Bend Radius (in)	Weight lbs/ft
PC65-B-0250	.250 (6.3)	.519 (13.2)	135	406	1.57	.070
PC65-B-0375	.375 (9.5)	.653 (16.6)	102	305	2.16	.120
PC65-B-0500	.500 (12.7)	.799 (20.3)	82	247	2.75	.160
PC65-B-0625	.625 (15.9)	.964 (24.5)	63	189	3.34	.220
PC65-B-0750	.750 (19.1)	1.09 (27.9)	53	160	3.74	.265
PC65-B-0875	.875 (22.2)	1.23 (31.3)	48	145	4.33	.310
PC65-B-1000	1.00 (25.4)	1.35 (34.5)	44	131	5.31	.350
PC65-B-1250	1.25 (31.8)	1.60 (40.8)	34	102	6.29	.460

Pressure ratings based @ 70 °F (21 °C)
Burst pressure will decrease 10% for each 200 °F (37 °C) increase

Fittings and Materials

PureFlex manufactures more of its own product than any other company in this industry.

Our fitting and collar selection is unequalled and offers more choices to meet your most demanding application.

FITTINGS

PureFlex fittings and collars are designed specifically for Silicone and Fluoropolymer hoses. Combining bio-pharmaceutical and aerospace quality standards, that provide a minimum interior surface finish of 15 Ra on all sanitary fittings. Other surface finishes available upon request.

MATERIALS

PureFlex offers a wide range of fitting materials which include 316 S.S., 304 S.S., Monel®, Hastelloy®, Titanium, solid Kynar® (PVDF), solid polypropylene, PFA encapsulated 316 S.S. or carbon steel. Other materials available upon request.

THREADED FITTINGS

SANITARY

CAM LOCK

FLANGES



STYLE 03 Male Pipe (NPT) Hex
STYLE 04 Male Pipe (NPT)



STYLE 06 Female Pipe (NPT)
STYLE 30 JIC Female Swivel



STYLE 33 Male Union (NPT)
STYLE 36 Female Union (NPT)



STYLE 37 Female Swivel (NPSH)



STYLE 40 Sanitary (Tri-Clamp)
STYLE 45 Bevel Seat Female



STYLE 48 I-Line Male
STYLE 46 Bevel Seat Male



STYLE 41 Sanitary Step-Up
STYLE 49 I-Line Female



STYLE 42 Sanitary Mini



STYLE 07 Female CAM Lock 'D'
STYLE 08 Male CAM Lock 'E'



STYLE 17 Female CAM Lock 'D' Reducer
STYLE 27 Female CAM Lock 'D' (PFA Encapsulated)



STYLE 28 Male CAM Lock 'E' (PFA Encapsulated)



STYLE 05 Flange Retainer P Series Flange Retainer
STYLE 25 Flange Retainer (PFA Encapsulated)

COMPRESSION SPLICE BUTTWELD



STYLE 18 Tube Buttweld
STYLE 19 Pipe Buttweld

All fitting styles may not be available for all hose types.

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