

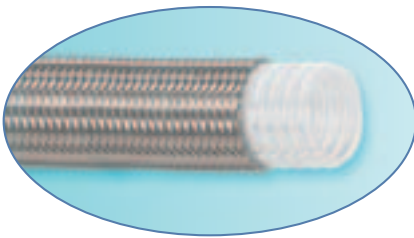
# WCS/BCS Series

## Chemfluor® PTFE Fluoropolymer Helically Convoluted Inner Tube High Tensile 304 Stainless Steel Braid • Low Profile

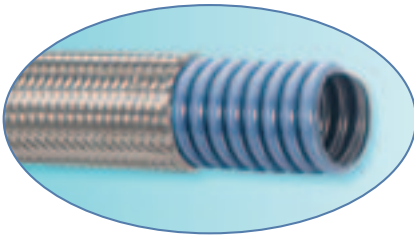
applications	common media	industry approvals & compliances
<ul style="list-style-type: none"> <li>• Chemical transfer</li> <li>• Steam (tire press) transfer</li> <li>• Solvent transfer</li> <li>• Acid lines</li> <li>• Adhesive transfer</li> <li>• CIP lines</li> <li>• Food and beverage transfer</li> </ul>	<ul style="list-style-type: none"> <li>• Sulfuric acid</li> <li>• High pressure steam</li> <li>• Hexane/lacquer (BCS)</li> <li>• Hydrofluoric</li> <li>• Silicone/hot glues</li> <li>• Caustic solutions</li> <li>• Syrups/flavors</li> </ul>	<ul style="list-style-type: none"> <li>• FDA (WCS only)</li> <li>• U.S. Pharmacopeia Class VI</li> <li>• Complies with MIL-H-27267 (BCS)</li> </ul>

### features & benefits

- Chemfluor® fluoropolymer inner tubes**
- Superior flexibility and vacuum resistance
  - Convoluted inner tubes are low profile and helical formed to promote drainage
  - Neutral to taste
  - Does not absorb color or odor
  - Non-stick, non-contaminating
  - Easy to clean (SIP, CIP, autoclavable)



WCS



BCS

### engineering specifications

#### maximum length    minimum overall length of hose assemblies with anti-kink casing

3/8"	100'	1/2" size – 24" OAL
1/2"	125'	3/4" size – 36" OAL*
3/4"	100'	1" size – 36" OAL
1"	150'	1-1/2" size – 36" OAL**
1-1/4"	100'	2" size – 48" OAL**
1-1/2"	100'	3" and 4" size – consult factory
2"	75'	* with mini sanitary fitting, shorter lengths are possible
		** with same size sanitary clamped ends, shorter lengths are possible; consult factory

#### ⚠ Important:

Maximum length may vary. Length supplied will be based on full coil length in stock ± 25% of the order length.

#### temperature rating

- WCS:
- -65°F to +450°F
  - -54°C to +232°C
- BCS:
- -100°F to +450°F
  - -73°C to +232°C

### details

#### construction

- Inner Tube:
  - WCS: Chemfluor® PTFE fluoropolymer
  - BCS: Chemfluor® PTFE black fluoropolymer electrostatic dissipating conductive
- Reinforcement:
  - 304 stainless steel braid
  - High tensile strength

#### fittings

- PermaSeal® crimp-style
  - Over 40 styles of 316L stainless steel conventional fitting designs
  - 316L stainless steel is standard
  - Wide range of other materials available
- Carbon steel:
  - J.I.C. (female)
  - Male NPT
  - Crimp collars (1/2" to 2")
  - Consult factory for fitting dimensions
- Fitting details begin on page 31

#### hose cover options

- See pages 75–76

### WCS/BCS Series hose specifications

Part Number	Inside Diameter		Outside Diameter		Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius		Vacuum Hg @ 70°F		Weight	
	in.	mm.	in.	mm.	PSI	Mpa	PSI	Mpa	in.	mm.	in.	mm.	lb./ft.	kg./m.
2706WCS/BCS	3/8	9.5	5/8	15.5	2,200	15.17	8,800	60.68	1.75	44.45	29.9	75.95	0.15	0.22
2708WCS/BCS	1/2	12.7	3/4	19.1	1,750	12.07	7,000	48.27	1.75	44.45	29.9	75.95	0.19	0.28
2710WCS	5/8	15.9	1	25.4	1,750	12.07	7,000	48.27	2.00	50.80	29.9	75.95	0.22	0.33
2712WCS/BCS	3/4	19.1	1-1/8	28.6	1,375	9.48	5,500	37.92	2.25	57.15	29.9	75.95	0.30	0.45
2716WCS/BCS	1	25.4	1-3/8	33.4	1,000	6.90	4,300	29.65	2.75	69.85	29.9	75.95	0.40	0.60
2720WCS/BCS	1-1/4	31.8	1-5/8	40.6	750	5.17	3,200	22.06	3.50	88.90	29.9	75.95	0.50	0.75
2724WCS/BCS	1-1/2	38.1	2-1/8	53.2	650	4.48	2,600	17.93	3.75	95.25	29.9	75.95	0.63	0.94
2732WCS/BCS	2	50.8	2-1/2	63.5	600	4.14	2,400	16.55	6.50	165.10	5.0	12.70	0.89	1.33

#### ⚠ Important:

Burst pressure ratings at ambient 70°F (21°C). See applicable notes below on vacuum/pressure ratings at temperatures other than ambient.

For styles above 2" ID, refer to page 18 for info on TWOB/TBOB Series hose.

**Vacuum Rating** @ minimum bend radius (72°F): all sizes up to and including 1-1/2" rated @ 29.9" Hg; 2" rated @ 5.0 Hg.

Data given is for straight hose installation.

# WCSS Series

Chemfluor® PTFE Fluoropolymer Helically Convoluted Inner Tube  
Platinum-Cured Silicone Cover • Stainless Steel Braid • Low Profile

applications	common media	industry approvals & compliances
<ul style="list-style-type: none"> <li>• Wash down hoses</li> <li>• Transfer lines</li> <li>• Equipment lines</li> <li>• Filling equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Caustic solutions</li> <li>• Ultra pure water (DI)</li> <li>• Clean steam (low pressure)</li> <li>• Mascara/creams/lotions</li> </ul>	<ul style="list-style-type: none"> <li>• FDA</li> <li>• U.S. Pharmacopeia Class VI</li> </ul>

## features & benefits

Chemfluor® fluoropolymer inner tubes (see page 22)

### Silicone cover

- Durable, extremely flexible, ultra pure platinum-cured silicone
- Extruded directly over WCS Series hose
- Extremely smooth for easy cleaning and assured sterility
- No place for bacteria to accumulate
- Hose assemblies may be autoclaved or SIP cleaned
- Cover is locked to stainless steel braid reinforcement so that hose and cover flex as one unit, with no bulges or creases; tear resistance also improved due to right fit
- Braid fraying minimized, reducing risk of hand injuries from wire braid punctures
- Enhanced thermal insulating properties
- Burn potential from accidental contact greatly reduced

## engineering specifications

### maximum length      temperature rating

3/8"	100'	• -65°F to +450°F
1/2"	125'	• -54°C to +232°C
3/4"	100'	
1"	150'	

### ⚠ Important:

Maximum length may vary. Length supplied will be based on full coil length in stock ± 25% of the order length.

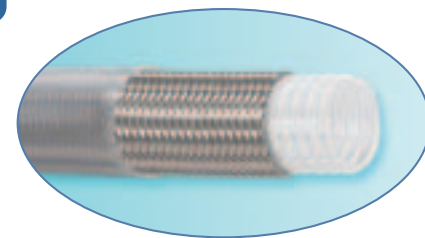
## details

### construction

- Inner Tube:
  - WCSS: Chemfluor® PTFE fluoropolymer inner tube
- Cover: Platinum-cured silicone
- Reinforcement:
  - 304 stainless steel braid
  - High tensile strength

### fittings

- PermaSeal® crimp-style
  - Over 40 styles in a wide range of materials
  - Standard: 316L stainless steel
  - Single stainless steel crimp collar design locks in hose fitting and seals off silicone cover, which prevents cleaning media from seeping under cover
  - This design eliminates the need for a secondary crimp collar or plastic heat shrink tubing
  - Also assures hose pressure rating to rated operating pressure
- Fitting details begin on page 31



WCSS

## WCSS Series hose specifications

Part Number	Inside Diameter		Outside Diameter		Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius		Vacuum Hg @ 70°F		Weight	
	in.	mm.	in.	mm.	PSI	Mpa	PSI	Mpa	in.	mm.	in.	mm.	lb./ft.	kg./m.
2706 WCSS	3/8	9.7	5/8	16.8	2,200	15.17	8,800	60.68	1.75	44.45	29.9	75.95	0.15	0.22
2708 WCSS	1/2	12.7	7/8	20.3	1,750	12.07	7,000	48.27	1.75	44.45	29.9	75.95	0.19	0.28
2712 WCSS	3/4	19.1	1-1/8	28.5	1,375	9.48	5,500	37.92	2.25	57.15	29.9	75.95	0.30	0.45
2716 WCSS	1	25.4	1-3/8	34.5	1,000	6.90	4,300	29.65	2.75	69.85	29.9	75.95	0.40	0.60

### ⚠ Important:

Burst pressure ratings at ambient 70°F (21°C).

Vacuum Rating @ minimum bend radius (72°F).

Consult factory on sizes 1-1/4" through 2" or for anti-static BCSS Series with silicone cover.