

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

features & benefits

- Chemfluor® PTFE fluoropolymer inner tube**
- 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)

details

construction

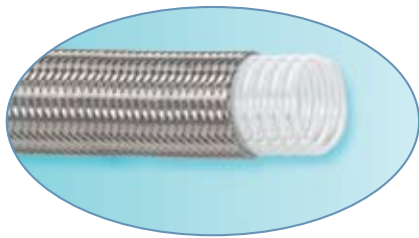
- Inner Tube:
 - WCS: Chemfluor® PTFE fluoropolymer
 - BCS: Chemfluor® PTFE black fluoropolymer electrostatic dissipating conductive
- Reinforcement:
 - 304 stainless steel braid
 - High tensile strength

fittings

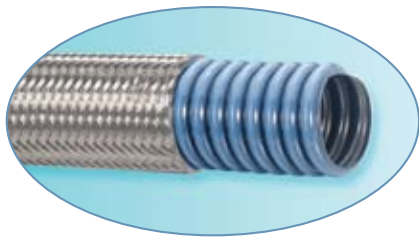
- PermaSeal® crimp-style
 - Over 40 styles of 316L stainless steel conventional fitting designs
 - 316L stainless steel is standard
 - Wide range of other materials available
- Carbon steel:
 - J.I.C. (female)
 - Male NPT
 - Crimp collars (1/2" to 2")
 - Consult factory for fitting dimensions
- Fitting details begin on page 33

hose cover options

- See pages 79–80



WCS



BCS

engineering specifications

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

3/8"	100'	3/8" - 1/2" size – 24" OAL
1/2"	125'	5/8" - 3/4" size – 36" OAL*
5/8"	125'	1" size – 36" OAL
3/4"	100'	1-1/2" size – 36" OAL**
1"	150'	2" size – 48" OAL**
1-1/4"	100'	* with mini sanitary fitting, shorter lengths are possible
1-1/2"	100'	** with same size sanitary clamped ends, shorter lengths are possible; consult factory
2"	75'	

⚠ 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

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	760	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	760	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	760	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	760	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	760	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	760	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	760	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	12.7	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 20 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.