

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)

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

details

construction

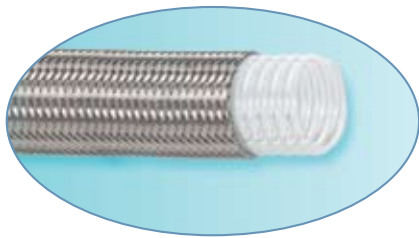
- Inner Tube:
 - WCS: Chemfluor® PTFE fluoropolymer
 - BCS: Chemfluor® PTFE black fluoropolymer electrostatic dissipating conductive
- Reinforcement:
 - 304 stainless steel braid
 - High tensile strength

fittings

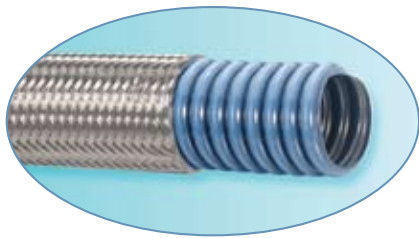
- PermaSeal® crimp-style
 - Over 40 styles of 316L stainless steel conventional fitting designs
 - 316L stainless steel is standard
 - Wide range of other materials available
- Carbon steel:
 - J.I.C. (female)
 - Male NPT
 - Crimp collars (1/2" to 2")
 - Consult factory for fitting dimensions
- Fitting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

hose cover options

- See pages 79–80



WCS



BCS

WCS/BCS Series hose specifications

Part Number	Nominal Hose Size	Inside Diameter		Outside Diameter		Maximum Working Pressure		Minimum Burst Pressure		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	3/8	9.2	0.61	14.9	1960	13.52	7840	54.07	1.75	42.9	29.9	760	0.15	0.22
2708WCS/BCS	1/2	1/2	12.3	0.75	18.4	1650	11.38	6600	45.52	1.75	42.9	29.9	760	0.19	0.28
2712WCS/BCS	3/4	3/4	18.4	1.13	27.7	1375	9.48	5500	37.93	2.25	55.1	29.9	760	0.30	0.45
2716WCS/BCS	1	1	24.5	1.31	32.1	1025	7.07	4100	28.28	2.75	67.4	29.9	760	0.40	0.60
2720WCS/BCS	1 1/4	1 1/4	30.6	1.60	39.2	790	5.45	3160	21.79	3.50	85.8	29.9	760	0.50	0.75
2724WCS/BCS	1 1/2	1 1/2	36.8	2.09	51.2	805	5.55	3220	22.21	3.75	91.9	29.9	760	0.63	0.94
2732WCS/BCS	2	2	49.0	2.50	61.3	675	4.66	2700	18.62	6.50	159.3	5	13	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.

CRN available in all sizes