TWOB/TBOB/TWOBHV/TBOBHV Series Chemfluor® PTFE Fluoropolymer Helically Convoluted Inner Tube Stainless Steel Braid • Open Pitch

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industry approvals & compliances common media Base chemicals USDA · Food, flavors and syrups

FDA (TWOB only)

• Pharmacopeia Class VI

- Corn syrup Hexane (TBOB)
- Product transfer
- Caustic solutions
- features & benefits
- Chemfluor® PTFE inner tube
- Excellent chemical resistance
- Compatible with almost all materials
- Rounded, open-pitch helical convolutions shaped to ensure smooth product flow
- Non-stick surface, easy to clean (steam, caustics, solvents or other cleaning agents)
- Assured sterility
- Easy to flex, yet won't flatten when bent

Chemfluor[®] black PTFE electrostatic dissipating conductive inner tube

- Co-extrusion design with minute amount of carbon added to inner portion of thick-wall construction
- Processed to prevent chemical leaching or friction contamination
- Chemfluor[®] PTFE properties are completely maintained

engineering specifications

maxim	um length	temperature rating						
3/8"	100'	• -100°F to +450°F						
1/2"	100'	• -73°C to +232°C						
3/4"	70'							
1"	65'							
1-1/4"	45'							
1-1/2"	70'							
2"	50'							
3"	30'							
4"	20'							

TWOB/TBOB Series hose specifications

Inside Part Diamet					Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius		Vacuum Hg @ 70°F		Weight	
Number*	in.	mm.	in.	mm.	PSI	Мра	PSI	Мра	in.	mm.	in.	mm.	lb./ft.	kg./m.
8TWOB/TBOB	1/2	12.7	3/4	19.1	500	3.45	2,000	13.79	2.00	50.80	29.9	75.95	0.20	0.30
12TWOB/TBOB	3/4	19.1	1-1/8	28.6	425	2.93	1,700	11.72	2.75	69.85	29.9	75.95	0.30	0.45
16TWOB/TBOB	1	25.4	1-1/4	31.8	350	2.41	1,400	9.65	4.00	101.60	29.9	75.95	0.40	0.60
20TWOB/TBOB	1-1/4	31.8	1-5/8	41.3	337	2.32	1,350	9.31	5.50	139.70	29.9	75.95	0.70	1.04
24TWOB/TBOB	1-1/2	38.1	2	50.8	275	1.90	1,100	7.58	7.00	177.80	29.9	75.95	0.75	1.12
32TWOB/TBOB	2	50.8	2-1/2	63.5	250	1.72	1,000	6.90	8.50	215.90	29.9	75.95	1.05	1.56
40TWOB/TBOB	2-1/2	63.5	3-1/8	79.4	212	1.46	850	5.86	13.00	330.20	29.9	75.95	1.35	2.01
48TWOB/TBOB	3	76.2	3-7/8	98.4	175	1.21	700	4.83	14.00	355.60	29.9	75.95	1.75	2.61
64TWOB/TBOB	4	101.6	5	127.0	150	1.03	600	4.14	16.00	406.40	29.9	75.95	2.10	3.13

details

construction

- Inner Tube
 - TWOB: Chemfluor® white PTFE
 - TBOB: Chemfluor® black PTFE electrostatic dissipating conductive
- Reinforcement: 316 stainless steel braid
 - Other braid options available:
 - Polypropylene-TWOY/TBOY, see page 19
 - PVDF (Kynar®) -TWOK/TBOK, see page 20

fittings

- PermaSeal[®] crimp-style
 - Over 40 styles
- Flare-Thru fitting technology available:
 - 150# lap-joint style flanged
 - Female cam and groove
- Sanitary clamp style
- 1/2" mini sanitary Flare-Thru available using 3/8" ID open pitch hose
- Fitting details begin on page 31

🔔 Important:

• Hose assemblies may be autoclaved; however, flare faces of Flare-Thru fittings must be clamped down to prevent damage to sealing surface

\rm Important:

Burst pressure ratings at ambient 70°F (21°C). See applicable notes below on vacuum/pressure ratings at temperatures other than ambient. Working Pressure is given @ 70°F; decrease working

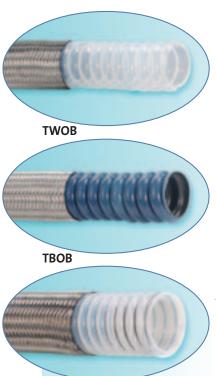
pressure 1% for every 2°F above 250°F. Vacuum Rating is given @ 70°F @ 2X minimum bend

radius; decrease vacuum rating 1% for every 2°F above 250°F. Vacuum rating decreases when installed @ less than 2X minimum bend radius. TWOBHV/TBOBHV Series (heavy duty vacuum option) allows full vacuum ratings for 1-1/2", 2" and 2-1/2" sizes up to 350°F; decrease vacuum rating 1% for every 2°F above 350°F. Vacuum rating @ less than 2x minimum bend radius: 1-1/4" = 26" Hg; 1-1/2" = 25" Hg; 2" = 20" Hg; 2-1/2" = 17" Hg; 3" = 20" Hg; 4" = 17" Hg.

Extended Service Life Tip: Flexible Components sug-gests using full-length anti-kink armor casing or at least 16" to 24" long anti-kink cuffs (see Hose Cover Options, pages 75–76) at each fitting end to help reduce the strain on the crimp collar and fittings in high load installations. Prolonged service at elevated temperatures will reduce total service life.

TWOBHV TWOBHV/TBOBHV Series

- Fully rated vacuum hose • Recommended for full
- vacuum applications Should always be used for
- 2-1/2", 3" and 4" I.D. assemblies



applications

Sanitary transfer

Solvent transfer

Drain and sample lines

Distributed by:

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