

Omega Annular Corrugated Hose - Tuff 2 Ply

Arcflex Omega 2ply tube is manufactured using the unique forming process adopted in the manufacture of Omega Tuff, with the addition of a secondary layer of butt welded tube prior to forming. Available with a double 304 layer or a heavy duty type with a 316L inner and a 304 outer layer.

This product is the most sophisticated and technically superior tube, offering greater strength, pressure and durability.

Features

- Ideal for applications requiring greater safety features due to the 2 ply design
- Higher pressures than single ply
- Greater durability than any single ply products
- Chemically resistant
- Temperatures from cryogenic up to +600°C



Typ. AO2T
Standard Pitch
Heavy Wall



Typ. AO2F
Fine Pitch
Light wall



Typ. AO2T Heavy Wall Standard Pitch 316L inner ply and 304 outer ply

Part No.	Un-Braided Tube Details						Braided Tube		Max Pressure at 20°C Ambient				
	Nominal Bore		ID	OD	Strip T		Min Bend Rad.	Flexing	Unbraided		Single Braided		
	inch	mm	mm	mm	in 316L	outer 304			Pitch	Working	Burst	Working	Burst
AO2T-40	1 1/2"	40	40.5	54.5	0.3	0.4	11.0	200	270	3.0	12.0	35	140
AO2T-50	2"	50	53.5	70.5	0.3	0.4	13.0	250	280	3.4	13.6	35	140
AO2T-65	2 1/2"	65	67.0	86.0	0.3	0.4	15.0	300	320	2.2	8.8	25	100
AO2T-80	3"	80	78.5	100.5	0.5	0.4	15.0	400		1.6	6.4	20	80
AO2T-100	4"	100	103.5	126.5	0.5	0.4	17.0	700		2.2	8.8	25	100
AO2T-125	5"	125	128.5	153.5	0.6	0.45	19.0	750		1.5	6.0	21	84
AO2T-150	6"	150	152.0	180.5	0.6	0.45	20.0	800		1.1	4.4	18	72
AO2T-200	8"	200	203.0	233.0	0.6	0.5	23.0	900		1.0	4.0	16	64
AO2T-250	10"	250	251.0	285.0	0.7	0.6	24.0	1100		1.1	4.4	12	48
AO2T-300	12"	300	300.5	336.0	0.7	0.7	28.0	1300		1.1	4.4	14	56
AO2T-350	14"	350	346.0	385.0	0.8	0.8	28.0	1500		0.7	2.8	10	40
AO2T-400	16"	400	396.0	436.0	0.8	0.8	30.0	1800		0.5	2.0	8	32

Typ. AO2L Light Wall Fine Pitch 304 twin ply

Part No.	Un-Braided Tube Details						Braided Tube		Max Pressure at 20°C Ambient				
	Nominal Bore		ID	OD	Strip T		Min Bend Rad.	Flexing	Unbraided		Single Braided		
	inch	mm	mm	mm	in 316L	outer 304			Pitch	Working	Burst	Working	Burst
AO2L-50	2"	50	53.0	71.0	0.25	0.25	8.5	120	150	3.4	13.6	20	80
AO2L-65	2 1/2"	65	67.0	86.0	0.25	0.25	9.0	140	160	2.2	8.8	20	80
AO2L-80	3"	80	78.5	100.5	0.25	0.25	10.0	200		1.6	6.4	15	60
AO2L-100	4"	100	103.5	126.5	0.25	0.25	11.0	250		2.2	8.8	12	48
AO2L-125	5"	125	128.5	153.5	0.3	0.3	11.5	400		1.5	6.0	10	40
AO2L-150	6"	150	152.0	180.5	0.3	0.3	11.5	480		1.1	4.4	10	40

- A wide style of end fittings available upon request
- TIG welded, Brazed or Non-welded assemblies available
- Fully cleaned and mass spectrometer testing available
- Use of braided braid to reduce wear on corrugations can be supplied from 4" and above
- Suitable as bellows for expansion/vibration
- Grade 321 available for temp up to +800°C

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