

Omega Annular Corrugated Hose - Tuff Bellows Profile

Omega Typ. AOT

Arcflex Omega Tuff Bellows is the highest quality single ply annular stainless corrugated flexible tubing available, with high flexing characteristics compared to conventional 'U' form corrugations and is designed for use in specifications requiring the highest quality.

The revolutionary Omega forming process minimises stress, retaining an even wall thickness, recognised as technically the best corrugated hose product available on the market today.

Features

- Long life expectancy
- Cyclic life up to 4 times better when compared to 'U' formed corrugated tubes
- Fine pitch Omega profile - all spherical surfaces - bellows characteristics
- Smaller bend radii than conventional annular corrugations and better than Omega standard
- Produced in larger diameters
- Temp -297°C to +800°C
- Braided braid used for 10" and above as standard
- Available in material grades 304 and 316L. 321 and monel to order



fine pitch

Picture illustrates tuff annular type Omega corrugations

Part No.	Un-Braided Tube Details						Braided Tube		Max Pressure at 20°C Ambient			
	Nominal Bore		ID	OD	Strip T	Pitch	Static	Flexing	Unbraided		Single Braided	
	inch	mm	mm	mm	mm	mm	mm	mm	Working	Burst	Working	Burst
AOT-25	1"	25	26.5	37.0	0.3	6.7	80	160	3.9	15.6	50	200
AOT-32	1.1/4"	32	32.0	47.0	0.3	7.2	100	170	1.7	6.8	50	200
AOT-40	1.1/2"	40	40.5	55.0	0.4	7.5	110	180	3.1	12.4	40	160
AOT-50	2"	50	53.0	71.0	0.4	8.5	120	200	1.8	7.2	20	80
AOT-65	2.1/2"	65	66.5	85.4	0.4	9.0	140	225	1.9	7.6	20	80
AOT-80	3"	80	78.0	101.0	0.4	10.0	200	250	1.2	4.8	16	64
AOT-90	3.1/2"	90	92.0	117.0	0.4	10.0	220	275	1.0	4.0	12	48
AOT-100	4"	100	103.0	127.0	0.4	11.0	240	300	1.2	4.8	12	48
AOT-125	5"	125	128.0	154.0	0.45	11.5	350		1.2	4.8	11	44
AOT-150	6"	150	151.5	181.0	0.45	11.5	400		0.9	3.4	10	40
*AOT-175	7"	175	177.0	207.0	0.5	11.5	500		0.8	3.2	9	36
AOT-200	8"	200	202.5	233.5	0.5	11.5	600		1.0	3.8	10	40
*AOT-225	9"	225	226.5	259.5	0.6	12.0	650		0.9	3.5	12	46
AOT-250	10"	250	250.5	285.5	0.6	12.0	700		0.8	3.1	11	44
*AOT-275	11"	275	275.5	311.5	0.7	12.5	800		0.9	3.6	12	48
AOT-300	12"	300	300.0	337.0	0.7	13.0	900		0.8	3.1	12	48
AOT-350	14"	350	346.0	385.0	1.0	15.0	1100		1.1	4.4	7	28
AOT-400	16"	400	396.0	436.0	1.0	16.0	1200		1.0	4.0	5	20

* Not standard stock - produced to order

18" to 30" available to order - refer to Arcflex for technical details

- A wide style of end fittings available upon request
- TIG welded, Brazed or Non-welded assemblies available
- Fully cleaned and mass spectrometer testing available
- Higher pressures and safety improvement using 2 ply omega
- Use of braided braid to reduce wear on corrugations

Document No. = L-0020-A