

The difference between WINNING and LOSING is STAYING CONNECTED...

GET CONNECTED!

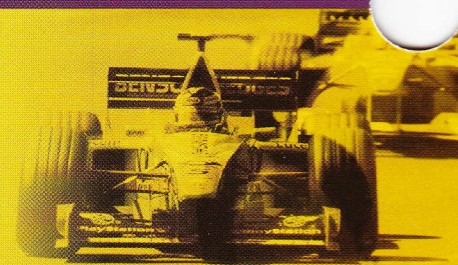


**ADEL
WIGGINS** *Flexible Tube Connectors*
GROUP

GET CONNECTED, STAY CONNECTED, WIN CONNECTED!

ADEL WIGGINS *Flexible Tube Connectors*

GROUP



SECURE YOUR WIN

Stay connected with Adel Wiggins Flexible Tube Connectors! The difference between winning and losing is in the connection. Do not sacrifice a win to a simple hose blowout or burst. This occurs when conventional hose clamps or barbs fail to secure the hose located between the connections or components. Adel Wiggins Flexible Tube Connectors eliminates these failures. This is why they have caught the attention of so many professional racers today. One of the main reasons for its popularity is its ability to be removed or installed with only one hand quickly and easily, whether they are being used with tubing or hose. Adel Wiggins Flexible Tube Connectors are offered standard in lightweight aluminum and are available in stainless steel or titanium upon special order. They have an operating temperature range from -120° F to 800° F and are able to withstand boost and pressure levels in excess of 125 PSI.



Safety-Locking, One Hand Installation

Adel Wiggins has utilized its more than three decades of experience in the design and production of reliable Flexible Tube Connectors to develop the W900 Series. This series has evolved in response to some very demanding application requirements – most particularly weight and assembly time savings and one-hand installation and removal.

The locking latch design eliminates troublesome and time-consuming installation of safety-wire or the necessity of tools to make the connection.

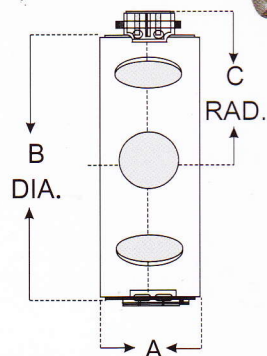
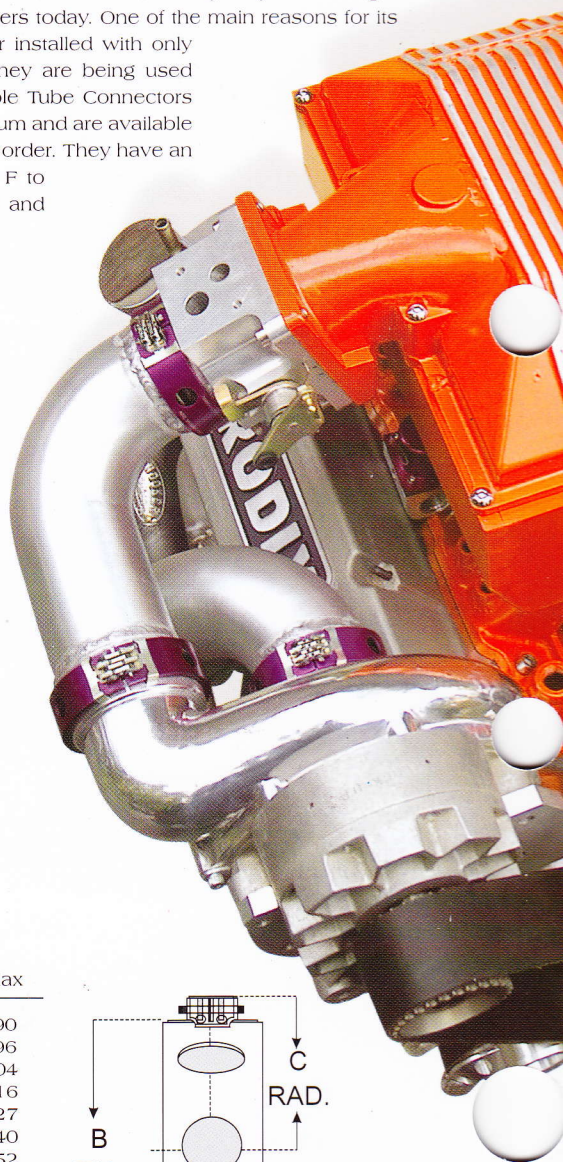
The electrical bonding feature eliminates the external clamps, fasteners and jumper wire required in some applications.

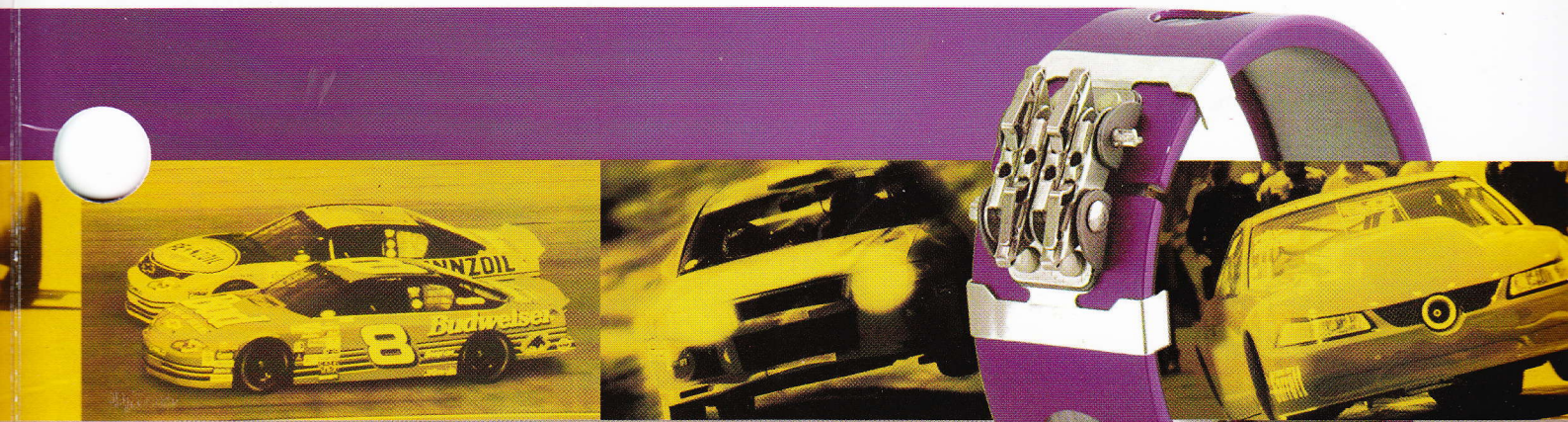
Elimination of lock wire holes, bolt-on bars, grounding clamps, snake clamps and jumper wires removes what can be a cumbersome and unattractive connection. The W900 series minimizes weight and unit cost, while retaining the proven performance and reliability of other WIG-O-FLEX connectors.

Fully qualified to MIL-C-22263

CLAMP TECHNICAL SPECIFICATIONS

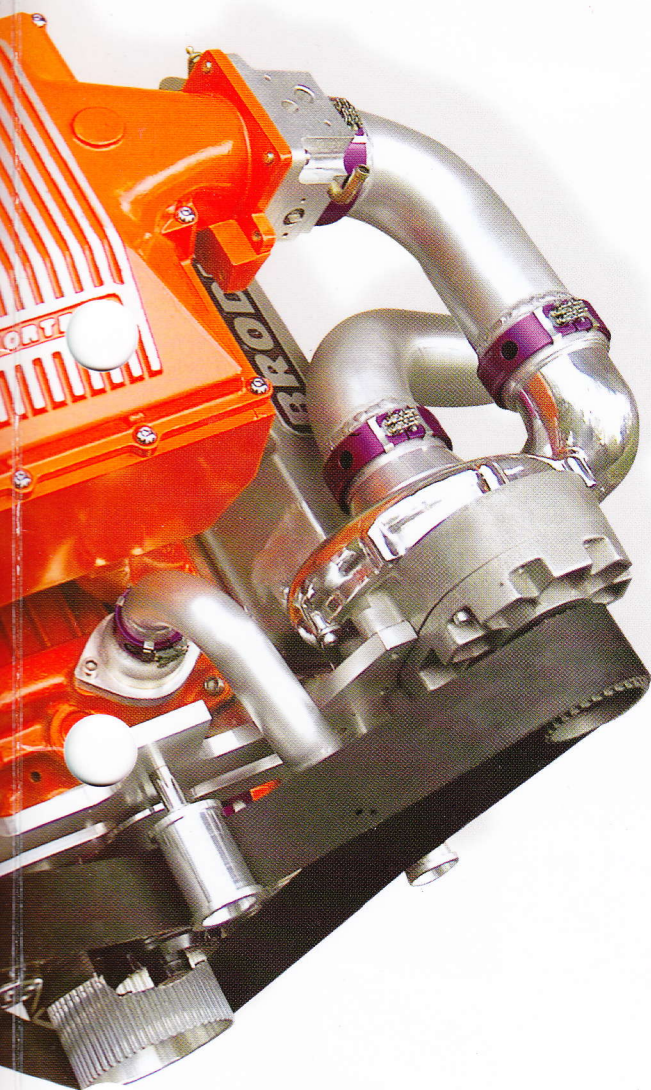
Tube O.D. Size	Aluminum		Stainless Steel		Seal Size per MS 33366	Dimensions		
	Part No.	Wt. Lbs.	Part No.	Wt. Lbs.		A Max	B Max	C Max
1/2	W991-8DE	.034	W991-8CE	.056	-015	.739	.851	.90
5/8	W991-10DE	.038	W991-10CE	.061	-017	.739	.976	.96
3/4	W991-12DE	.043	W991-12CE	.080	-117	.829	1.156	1.04
1	W991-16DE	.052	W991-16CE	.101	-214	.923	1.432	1.16
1 1/4	W991-20DE	.058	W991-20CE	.117	-218	.923	1.682	1.27
1 1/2	W991-24DE	.062	W991-24CE	.132	-222	.923	1.952	1.40
1 3/4	W991-28DE	.070	W991-28CE	.153	-224	.923	2.211	1.52
2	W991-32DE	.083	W991-32CE	.191	-226	.989	2.505	1.66
2 1/2	W991-40DE	.097	W991-40CE	.232	-230	.989	3.007	1.90
3	W991-48DE	.144	W991-48CE	.357	-234	.989	3.554	2.17
3 1/2	W991-56DE	.176	W991-56CE	.450	-238	.989	4.088	2.43
4	W991-64DE	.201	W991-64CE	.519	-242	1.002	4.596	2.67





W900 Performance Data

The W900 series of Flexible Tube Connectors has been qualified to the military and aerospace requirements of specification MIL-C-22263. Plus over 20 years of proven reliability within the motorsports industry.



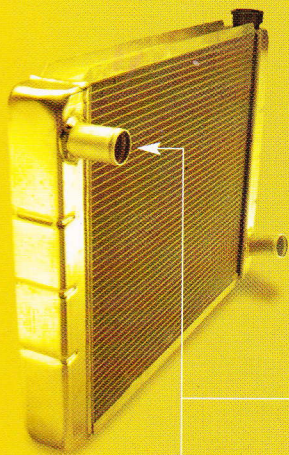
- Operating Pressure 125 PSI
- Proof Pressure 250 PSI
- Burst Pressure 375 PSI
- Operating Temperature -120°F to +800°F (Depending on coupling material)
- Temperature To 450°F depending primarily on O-ring and/or coupling material
-120°F to +800°F in models using special lip seals.
- Flexibility (Max. Angular Misalignment) $\pm 4^\circ$ total angular tube flexure (+2° per tube end centerline).
- Flexure Capability 28,000 cycles with 3° flexure
- Axial Movement Up to +1/8 inch from initially centered installation for a total of 1/4 inch.
- Electrical Bonding (Resistance) Conforms to MIL-B-5087, Class S (< 1 ohm)
- Qualification Specifications MIL-C-22263
- Seals Uses standard AS568 O-ring sizes provided by user, with O-ring material selected to suit the application.

* Specification rated pressure may be substantially higher depending upon size, material and other system requirements.

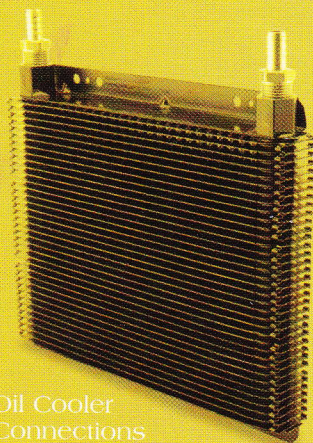
Features:

- **Lightest of all flexible tube connectors**
- **Saves installation and tear down costs**
- **Full range of stocked sizes: 1/2" to 4"**
- **Saves time, space, and weight**
- **Easy, one-hand installation**
- **Design flexibility**



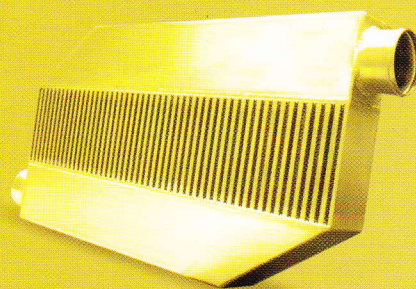
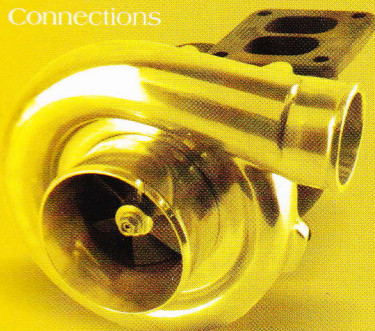


Radiator
Connections



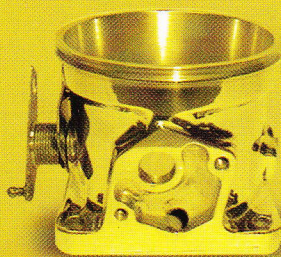
Oil Cooler
Connections

Turbo
Connections

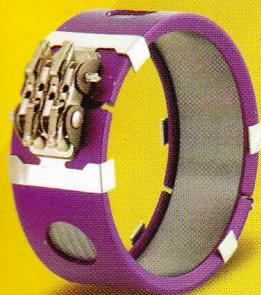


Intercooler
Connections

Throttle body
Connections



Sealed & Connected...

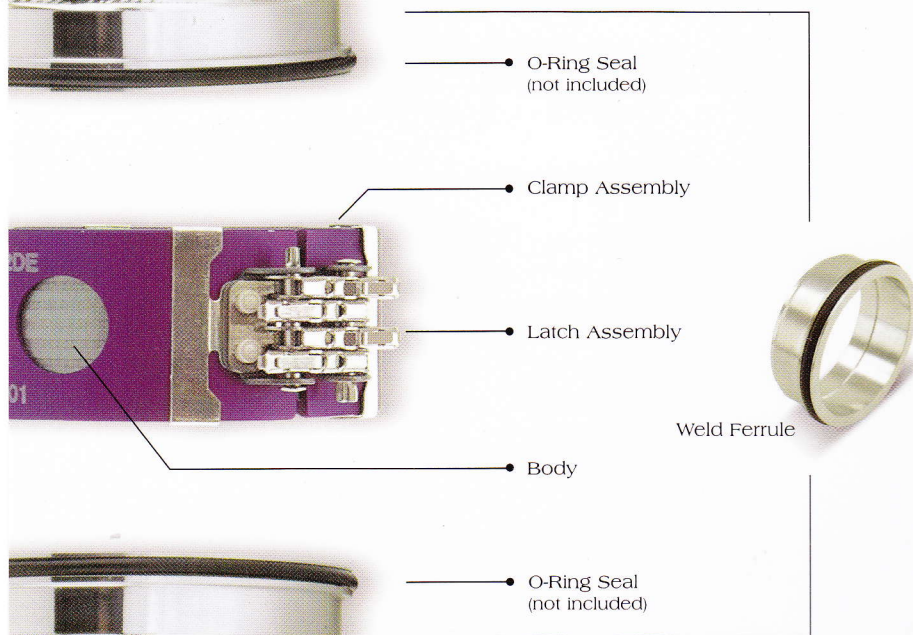


WADEL
WIGGINS *Flexible Tube Connectors*
GROUP

ASSEMBLY DETAILS & RELATED PRODUCTS

So what exactly comes with the Flexible Tube Connectors?

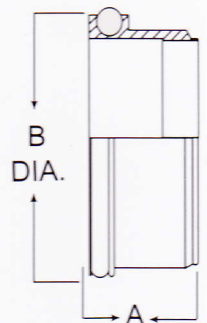
The Flexible Tube Connectors won't work by themselves, you're going to need some additional parts for assembly. A complete assembly includes a pair of weld ferrules, the clamp assembly, body, and a pair of O-rings. The ferrules are welded onto the tube or engine component, then sealed and connected with the body and clamp assembly. The installation is quite simple and painless for anyone with access to the appropriate welding equipment. The Flexible Tube Connectors are best suited for high performance applications where time and weight savings are critical. They are also cosmetically appealing for those willing to spend a bit extra for the aerospace look! Also available are innovative AN hose ends and fitting adapters that allow you to quickly connect and disconnect oil coolers, fuel lines, etc., without the use of tools. They're a welcome addition to any engine compartment. Whether on the track or the show circuit, Adel Wiggins Flexible Tube Connectors are the perfect connection for all applications.



Installation:

1. Install "O" Ring seal on each ferrule (lubricate before installing).
2. Install body on one ferrule.
3. Pull body back over other ferrule.
4. Install clamp assembly on body.
5. Engage latch assembly.
6. Close into locked position.

Note: Ferrules are permanently attached to the tube or engine component by welding. AN hose ends and fittings are not permanently attached.



FERRULE TECHNICAL SPECIFICATIONS

Tube O.D. Size	Aluminum		Stainless Steel		Seal Size per MS 33366	Dimensions	
	Part No.	Wt. Lbs.	Part No.	Wt. Lbs.		A Max	B Max
1/2	W903B8D	.010	W903B8C	.028	-015	.744	.689
5/8	W903B10D	.012	W903B10C	.033	-017	.744	.814
3/4	W903B12D	.016	W903B12C	.046	-117	.783	.994
1	W903B16D	.022	W903B16C	.062	-214	.838	1.270
1 1/4	W903B20D	.027	W903B20C	.076	-218	.838	1.520
1 1/2	W903B24D	.033	W903B24C	.093	-222	.838	1.790
1 3/4	W903B28D	.038	W903B28C	.107	-224	.838	2.040
2	W903B32D	.047	W903B32C	.132	-226	.854	2.313
2 1/2	W903B40D	.056	W903B40C	.164	-230	.854	2.813
3	W903B48D	.069	W903B48C	.195	-234	.854	3.313
3 1/2	W903B56D	.081	W903B56C	.227	-238	.854	3.823
4	W903B64D	.099	W903B64C	.272	-242	.854	4.322

ADEL WIGGINS GROUP *Flexible Tube Connectors*