HYDRAFLOW

DUID GUI

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the right connection for perfect fluid control

HYDRAFLOW

the next generation in connector technology



HYDRAFLOW

the connector taken

advanced R&D results in major user benefits

The Hydraflow 14J21 Clamshell is a threadless flexible coupling with a unique safety feature for fluid transfer in motorsport applications and used with industry standard flanges.

- Lightweight
- Flexible
- Durable
- Safety Strap
- Single handed operation
- Industry standard flanges
- Integral bonding wires

Safety first

The unique safety strap not only provides visual proof that the unit is locked but also gives added security as it cannot be engaged until the clamshell is closed correctly. Easy to use for peace of mind.

Product development

The 14J21 clamshell has taken well proven technology from aerospace and defence applications and applied it to the motorsport industry. The safety strap adds to the security of the dual action latching mechanism to give a lightweight, safe and quick action system.

About Hydraflow

Hydraflow specialises in creating engineered solutions for moving low pressure fluid within high technology platforms. Whether you are working in the motorsport, aerospace, marine, defence or any other high technology industries, it's likely that Hydraflow has the products and expertise to meet your challenges. Call Specialty Fasteners for details on how to solve your fluid transfer needs using Hydraflow products.





to the next stage

Locks automatically

Clamshell closure locks automatically when two halves are snapped together and cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch.

Gloved hand operation

No sharp edges to snag mechanics' gloves.



Meets tough requirements

Originally designed to meet stringent military and aerospace criteria which have been carried over to motorsport applications

Axial adjustment 1/4" angular misalignment

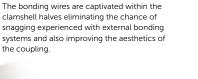
Electrical bonding to class "S" of MIL-B-5087B is automatically provided when the coupling

Safety device

The safety strap is provided to help correct installation and cannot be engaged unless the coupling has been completely closed. Operating instructions are available on our website: www.specialty-fasteners.co.uk and search 14J21

Easily inspected

The safety strap gives a fast, easy visual indication that the coupling is closed correctly



Product Notes

the coupling.

is assembled. Integral Bonding Wires

Flexible

is $\pm 4^{\circ}$ for full couplings. Self Bonding

Coupling flanges and seals are purchased as separate items. Seal material should be selected by the user to suit the application.

The 14J21-()A clamshell halves and sleeve are aluminium alloy with stainless steel and beryllium copper fittings and a nylon safety strap, please visit our website: www.specialty-fasteners.co.uk and search 14J21 to obtain full material specifications

Performance

The coupling meets the performance requirements of AS1650.

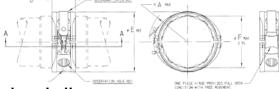
Temperature rating	-65°F to +450°F.			
	-08 thru -12	-16 thru -64		
Operating Pressure:	500 PSIG	155 PSIG		
Proof Pressure:	750 PSIG	227 PSIG		
Burst Pressure:	1000 PSIG	382 PSIG		
Note: All pressures are at room temperature				

CAD

CAD STEP files available on request for coupling and flanges

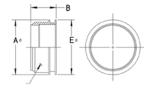


COUPLINC ASSEMBLY 0.500 14F03-08D -015 0.685 0.739 0.625 14F03-10D -017 0.810 0.739 0.750 14F03-12D -117 0.990 0.773 0.987 0.017 1.000 14F03-16D -214 1.266 0.828 1.263 0.023 14F03-20D -218 1.513 0.030 1.250 1.516 0.828 1.500 1.750 14F03-24D 14F03-28D -222 -224 1 786 0.828 1 783 0.035 2.036 0.828 2.033 0.042 2.000 14F03-32D -226 2 3 0 9 0 8 4 4 2.306 0.051 2.250 14F03-36D 2.559 0.844 2.556 0.058 -228 2 500 14F03-40D -230 2 809 0.844 2.806 0.065 14F03-48D 0.844 3.306 3.000 -234 3.309 0.079 3 500 14F03-56D -238 3 821 0 844 3 818 0.091 14F03-64D 0.844 4.000 -242 4.324 0.111 4.328



clamshell dimensions/part numbers

TUBE	COUPLING	SEAL	DIMENSIONS			Weight
Size Ref	ASSEMBLY	SIZE	A Max	B Max	E Ref	(Lbs)
0.500	14J21-08A	-015	0.89	0.85	1.06	0.033
0.625	14J21-10A	-017	0.95	0.85	1.16	0.036
0.750	14J21-12A	-117	1.04	0.95	1.27	0.046
1.000	14J21-16A	-214	1.18	1.04	1.49	0.061
1.250	14J21-20A	-218	1.29	1.04	1.74	0.069
1.500	14J21-24A	-222	1.43	1.04	2.03	0.078
1.750	14J21-28A	-224	1.55	1.04	2.24	0.084
2.000	14J21-32A	-226	1.69	1.08	2.53	0.101
2.250	14J21-36A	-228	1.80	1.08	2.87	0.112
2.500	14J21-40A	-230	1.91	1.09	3.08	0.130
3.000	14J21-48A	-234	2.18	1.13	3.69	0.187
3.500	14J21-56A	-238	2.44	1.13	4.19	0.223
4.000	14J21-64A	-242	2.68	1.13	4.79	0.248



flange dimensions/part numbers

Weight Fits and is (Lbs) interchangeable		E +/002	10				
0.010 0.013 with industry		0.682 0.807					
0.017 standard flange		0.987					



Manufacturers of AeroCatch® the panel fastener for the 21st Century

AEROCATCH

AeroCatch® shear pin latch is a replacement for the traditional slide pin used to retain bonnets and boot lids on racing saloons and rally cars. Its aesthetically pleasing and very low profile not only gives an aerodynamic advantage but also is road legal with no sharp projections. AeroCatch2 is a shear pin latch for use where it is not possible to use a strike pin and AeroCatch3 is a shear and tension latch typically used to retain panels on sports cars.





APPLICATIONS ARE ENDLESS

Although initially designed for the motorsport industry, AeroCatch® is now finding applications in off road machinery, trailers and marine use, where its robust composite and stainless steel construction makes it ideal for arduous conditions.



the right connection







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And suppliers of

Camloc Fasteners

The quick opening action of quarter turn fasteners makes them ideal for applications where fast and frequent access is required. They are used in a very diverse range of areas such as inspection panels on aircraft and racing cars, covers on agricultural machinery and access panels in transportation and machine guarding.

Quick Release Pins

Hand operated, non-threaded and designed to operate in shear applications quick release pins are fast and easy to release by a pull or push action. Ideal for use in structural joints subjected to shear loads where quick assembly/dis-assembly is required. Applications include retaining stores on helicopters, bodywork on cars, demountable shelters and equipment on high performance yachts.

Keensert Inserts

Keensert Inserts give high strength joints in low strength materials. Positively locked in position by the external Kees the stainless steel solid bushing configuration of the Keensert Insert guarantees the quality of the internal thread before installation. Typical applications include transmission housings, military vehicles, and suspension units.



www.specialty-fasteners.co.uk

engineered solutions