

Hydraflow

Hydraflow Flexible Fluid Couplings

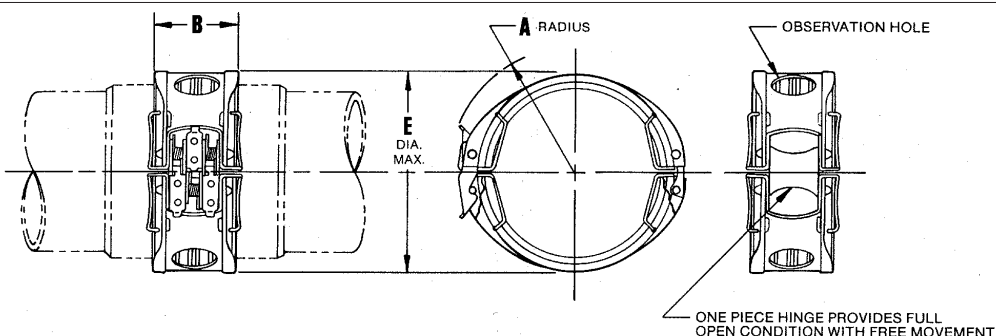


Hydraflow 14J Series Flexible Fluid Couplings

Flexible couplings offer many advantages. They are designed to accommodate manufacturing tolerances during assembly, as well as both angular and linear motion that can occur due to changes in either attitude or environmental conditions.

- Clam-shell closure locks automatically when two halves are snapped together and it can not disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch
- Quick disconnect action of the latch simplifies and facilitates assembly and removal by one hand
- Visual inspection from a distance provides positive indication that the closure is fully engaged and securely locked
- Axial adjustment 6.35mm minimum; angular misalignment for full coupling $\pm 4^\circ$
- Coupling design conforms to and has been qualified to all applicable military and commercial specification requirements for flexible fuel or environmental control systems for service at pressures of 125 PSIG (operating); 250 PSIG (proof) and 375 PSIG (burst) and temperature from -65°F to +450°F (-55°C to +232°C)
- Electrical bonding to class "S" of MIL-B-5087B is automatically provided when coupling is assembled

Code	Tube O.D. (inches)	Weight (kg)	A. Max (mm)	B. Max (mm)	E. Max (mm)
14J02-8A	1/2	0.012	18.03	18.29	26.92
14J02-10A	5/8	0.014	19.81	18.29	29.46
14J02-12A	3/4	0.018	21.59	20.83	32.26
14J02-16A	1"	0.022	24.89	23.11	37.85
14J02-20A	1-1/4	0.025	28.19	23.11	44.20
14J02-24A	1-1/2	0.026	31.24	23.11	51.56
14J02-28A	1-3/4	0.032	34.54	23.11	56.90
14J02-32A	2"	0.035	38.10	24.13	64.26
14J02-40A	2-1/2	0.044	44.45	24.13	76.96
14J02-48A	3"	0.067	51.56	25.15	93.73
14J02-56A	3-1/2	0.080	57.91	25.15	106.43
14J02-64A	4"	0.108	64.26	25.15	121.67



Material Identification:

Z = Zinc Plated Mild Steel EN = Electroless Nickel Plated Mild Steel HC = Stainless Steel D = Aluminium TI = Titanium Alloy B = Brass



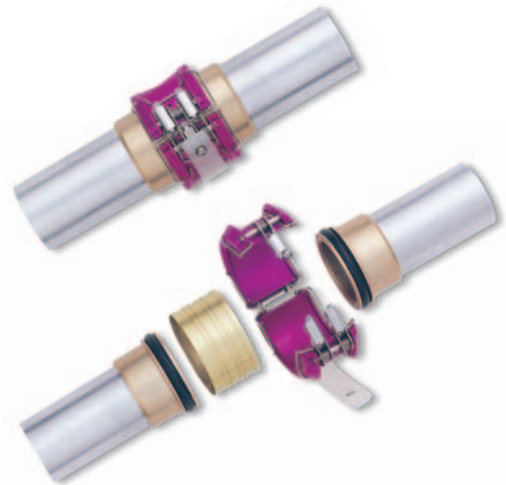
Weld Flange

Code	Tube O.D. (inches)	Weight (kg)	A. Max (mm)	B. Max (mm)
14F03-8D	1/2	0.004	17.40	18.77
14F03-10D	5/8	0.005	20.57	18.77
14F03-12D	3/4	0.007	25.15	19.63
14F03-16D	1"	0.010	32.16	21.03
14F03-20D	1-1/4	0.011	38.51	21.03
14F03-24D	1-1/2	0.015	45.36	21.03
14F03-28D	1-3/4	0.017	51.71	21.03
14F03-32D	2"	0.020	58.65	21.44
14F03-40D	2-1/2	0.027	71.35	21.44
14F03-48D	3"	0.033	84.05	21.44
14F03-56D	3-1/2	0.039	97.05	21.44
14F03-64D	4"	0.045	109.98	21.44

Hydraflow 14J 23 Series Flexible Fluid Couplings

The latch pawls lock automatically when the Clam-shell is snapped shut and will not open unless all 3 pawls are lifted simultaneously. Engagement of the safety strap onto the ball assures a proper installation.

- Clam-shell closure locks automatically when two halves are snapped together and it can not disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch
- In addition a Safety Strap is provided to help prevent miss installation. The safety strap cannot be engaged unless the coupling has been completely closed
- Quick disconnect action of the safety strap and latch simplifies and facilitates assembly and removal by one hand
- Visual inspection from a distance provides positive indication that the safety strap is engaged and that the closure is fully engaged and securely locked
- Axial adjustment 6.35mm minimum; angular misalignment for full coupling $\pm 4^\circ$
- Coupling design conforms to and has been qualified to all applicable military and commercial specification requirements for flexible fuel or environmental control systems for service at pressures of 125 PSIG (operating); 250 PSIG (proof) and 375 PSIG (burst) and temperature from -65°F to $+450^\circ\text{F}$ (-55°C to $+232^\circ\text{C}$)
- Electrical bonding to class "S" of MIL-B-5087B is automatically provided when coupling is assembled



Code	Tube O.D. (inches)	Weight (kg)	A. Max (mm)	B. Max (mm)	E. Max (mm)
14J23-8A	1/2	0.015	39.62	18.29	26.92
14J23-10A	5/8	0.016	42.67	18.29	29.97
14J23-12A	3/4	0.020	47.50	20.83	32.77
14J23-16A	1"	0.026	54.86	23.11	38.61
14J23-20A	1-1/4	0.030	62.23	23.11	44.96
14J23-24A	1-1/2	0.034	68.58	23.11	52.32
14J23-28A	1-3/4	0.039	73.91	23.11	57.66
14J23-32A	2"	0.044	80.01	24.13	65.28
14J23-40A	2-1/2	0.050	92.71	24.13	78.23
14J23-48A	3"	0.080	106.68	25.15	95.00
14J23-56A	3-1/2	0.091	119.63	25.15	107.70

