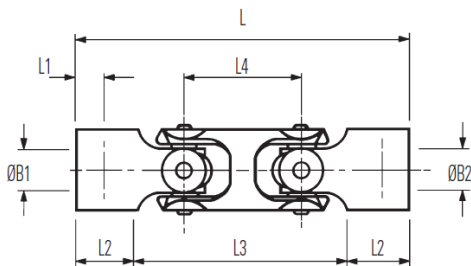




Huco-Pol

Type 109 Plastic Universal Joints



Materials & Finishes

Bodies: Acetal
Cross-pieces: Brass Cu Zn 21 Si 3P (Lead Free)

Operating Temperature Range

-4°F to +140°F (-20°C to +60°C)

Maximum Rotational Speed

1000 rev/min

DOUBLE JOINTS - DIMENSIONS & ORDER CODES

Size	Order Code	Dimensions								
		OD in. (mm)	L in. (mm)	L1 in. (mm)	L2 in. (mm)	L3 in. (mm)	L4 in. (mm)	B1, B2 Max	Moment of inertia kgm2 x 10-8	Mass kg x 10-3
06	109.06	0.28 (7.1)	1.07 (27.2)	0.13 (3.3)	0.21 (5.3)	0.66 (16.7)	0.32 (8.1)	4.76	0.6	1.1
09	109.09	0.44 (11.1)	1.64 (41.7)	0.17 (4.3)	0.34 (8.6)	0.97 (24.6)	0.52 (13.2)	6.35	5.9	4.5
13	109.13	0.56 (14.3)	2.02 (51.4)	0.22 (5.6)	0.41 (10.4)	1.21 (30.7)	0.63 (15.9)	8.0	23.7	9.6
16	109.16	0.69 (17.5)	2.97 (75.5)	0.35 (8.9)	0.60 (15.2)	1.78 (45.2)	0.87 (22.2)	11.0	63.5	19.7

DOUBLE JOINTS - PERFORMANCE at 68°F (20°C)

Size	Peak Torque lb.-in. (Nm)	Static Break Torque lb.-in. (Nm)	Torsional Rate deg/Nm	Torsional Stiffness Nm/Rad	Max angular compensation @ 1000 rev/min	Max radial compensation in. (mm)
06	0.71 (0.08)	3.00 (0.34)	81.9	0.7	90	49.6 (5.6)
09	1.42 (0.16)	16.82 (1.9)	13.3	4.3	90	80.5 (9.1)
13	5.22 (0.59)	30.1 (3.4)	8.1	7.1	90	96.5 (10.9)
16	11.5 (1.3)	60.2 (6.8)	4.5	12.6	90	137 (15.5)

STANDARD BORES

Size	Bore tolerances • +0.0016"/-0.0004" (+0.04mm/-0.01mm)									
	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)
06	•	•	•	•						
09			•	•	•	•	•			
13						•	•	•		
16								•	•	•
Bore Ref	14	16	18	19	20	22	24	28	31	32