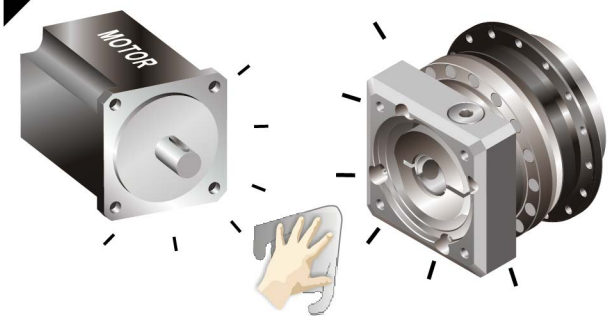
20201160201

APEX DYNAMICS, INC.

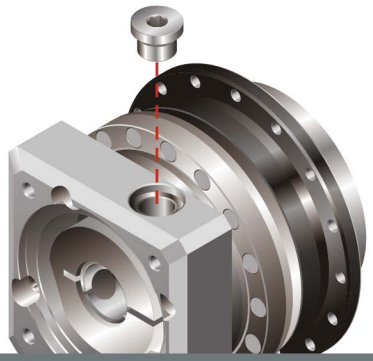
MOUNTING INSTRUCTION (AP/APC Series)

1



Double-check the motor and gearbox size and spec, Clean the both mounting surface.

2

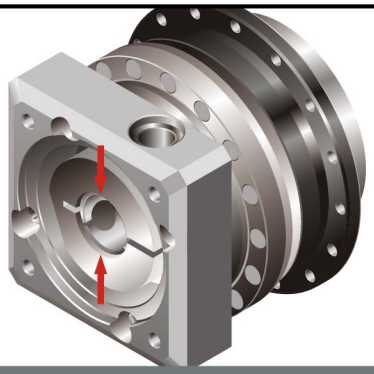


Remove the plug on the adapter and rotate the set collar till the bolts line up with plug hole.

3

a. Remove motor key
b. Insert balance key if necessary

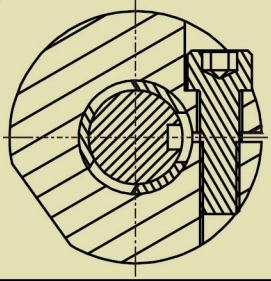
4



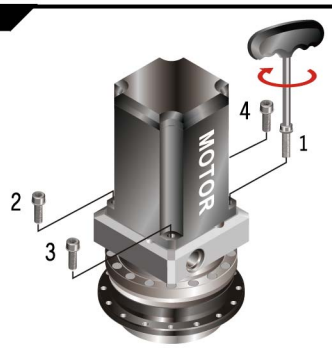
Check motor shaft size and insert bushing if necessary.

Correct installation.

When installing on flatted shafts, be sure to align the collet gap over the flat and the set collar bolt perpendicular to the flat.

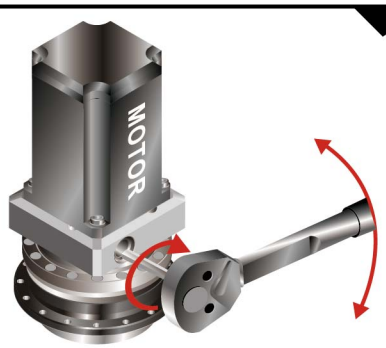


5



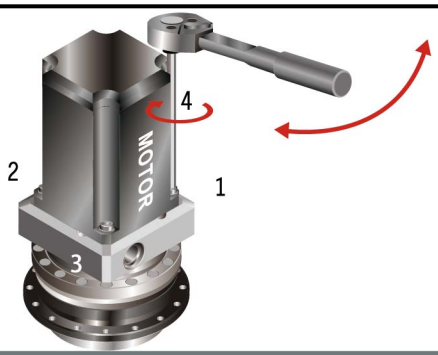
Set at vertical position. Tighten the mounting bolts (including washer) on following order(1 to 4) with wrench to 5% specified torque.(Please refer to Table 1)

6



Tighten the set collar bolt with torque wrench to specified torque.(Please refer to table 2)

7

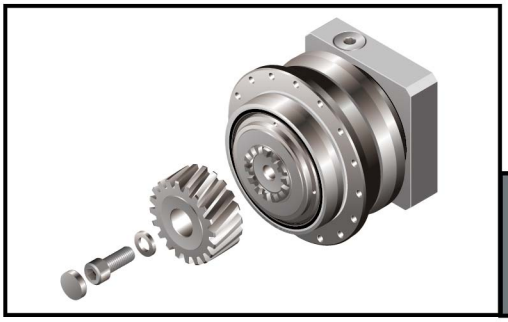


Tighten the mounting bolts with following order(1 to 4) by torque wrench to specific torque.
(Please refer to Table 1)

8

Tighten back the screw plug.

Accessories Mounting Instructions



Assemble with chosen gears and refer to table 2 for specific torque on fixing screw with torque wrench. Curvic design allows users to adjust optimized run-out by rotated angles.

Table 1 Tightening Torque Recommended for Motor Mounting Bolt

Bolt Size	Width Across Flats	Strength 8.8 Tightening Torque		Strength 10.9 Tightening Torque		Strength 12.9 Tightening Torque	
	[mm]	[Nm]	[In-lbs]	[Nm]	[In-lbs]	[Nm]	[In-lbs]
M3 x 0.5P	2.5	1.3	12	1.8	16	2.1	19
M4 x 0.7P	3	3	27	4.1	37	4.9	44
M5 x 0.8P	4	6.1	55	8.2	73	9.8	87
M6 x 1P	5	11	98	14	124	17	151
M8 x 1.25P	6	25	222	34	302	41	364
M10 x 1.5P	8	49	434	67	594	80	709
M12 x 1.75P	10	85	753	116	1,028	139	1,232
M14 x 2P	12	137	1,214	186	1,648	223	1,976
M16 x 2P	14	210	1,860	286	2,534	343	3,038

Table 2 Tightening Torque Recommended for Set Collar Bolt and Curvic Pinion/Flange

Model	Curvic Pinion / Flange	ϕ (C3)	11	14	19	24	28	32	35	38	42	48	55	60
AP 090 APC090	M10	1-st	-	M6	M6	M10	-	-	-	-	-	-	-	-
		2-st	-	M5	M6	-	-	-	-	-	-	-	-	-
		3-st	M5	M5	-	-	-	-	-	-	-	-	-	-
AP 110 APC100	M12	1-st	-	-	M8	M10	M10	M10	M12	M12	-	-	-	-
		2-st	-	-	M6	M10	-	-	-	-	-	-	-	-
		3-st	-	M5	M6	-	-	-	-	-	-	-	-	-
AP 140 APC140	M16	1-st	-	-	-	M10	M10	M10	M12	M12	M12	M16	-	-
		2-st	-	-	-	M10	M10	M10	M12	M12	-	-	-	-
		3-st	-	-	M6	M10	-	-	-	-	-	-	-	-
AP 200 APC200	M20	1-st	-	-	-	-	-	-	M12	M12	M12	M16	-	-
		2-st	-	-	-	-	-	M10	M12	M12	M12	M16	-	-
		3-st	-	-	-	M10	M10	M10	M12	M12	-	-	-	-
AP 255 APC255	M24	1-st	-	-	-	-	-	-	-	-	M12	M16	M16	-
		2-st	-	-	-	-	-	-	M12	M12	M12	M16	-	-
		3-st	-	-	-	-	M10	M10	M12	M12	-	-	-	-
AP 285 APC285	M30	1-st	-	-	-	-	-	-	-	-	-	M16	M16	M16
		2-st	-	-	-	-	-	-	-	M12	M12	M16	M16	-
		3-st	-	-	-	-	-	-	M12	M12	M12	M16	-	-
AP 355 APC355	M30	2-st	-	-	-	-	-	-	-	-	M12	M16	M16	-
		3-st	-	-	-	-	-	-	-	M12	M12	M16	-	-
AP 450 APC450	M36	2-st	-	-	-	-	-	-	-	-	-	M16	M16	M16
		3-st	-	-	-	-	-	-	-	M12	M12	M16	-	-

Bole Size	[mm]	M5 x 0.8P	M6 x 1P	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P
Width Across Flats	[mm]	4	5	6	8	10
Tightening Torque	[Nm]	9.8	17	41	80	139
	[In-lbs]	87	151	364	709	1,232

Bole Size	[mm]	M16 x 2P	M20 x 2.5P	M24 x 3P	M30 x 3.5P	M36 x 4P
Width Across Flats	[mm]	14	17	19	22	27
Tightening Torque	[Nm]	343	660	1,140	2,300	4,100
	[In-lbs]	3,038	5,846	10,098	20,372	36,316

Note: Holding torques must be bigger than values shown above. Bolts can be tightened up to 20% higher for increased holding torques.

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