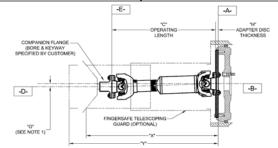


**DATUMS** 

-A--MOUNTING FACE OF FLYWHEEL
-B--ENGINE CRANKSHAFT CENTERLINE
-D--PUMP OR RIGHT ANGLE GEAR SHAFT HORIZONTAL CENTERLINE

-E--END OF PUMP OR RIGHT ANGLE GEAR SHAFT



REV		DESCRIPTION	ECN#	DWN	APVD	DATE
Α	PRE	LIMINARY ENGINEERING DRAWING	5076	ACH	ACH	05MAR18
В		VED OBSOLETE MODELS AND ADDED NEW HIGH SPEED JU6H MODELS	5076	ACH	ACH	28SEP18
С	DRI	VESHAFT MODEL NUMBER CHANGE	5076	CRD	JCA	29NOV18
D	OFF	DED CAT18 MODELS AND UPDATED SET AND TOLERANCES FOR VA2365 DRIVESHAFTS	5076	ACH	ACH	10APR19
Е		ECTED DRIVESHAFT SELECTIONS FOR I-UFAA98, DT2H-UFAA20,50,58, AND DT2R-UFAA19,49	5076	ACH	ACH	030CT19

Clarke Engines, UL/FM approved Heat Exchanger and Radiator Cooled Models	UL Listed Driveshaft Model	Non-Listed Driveshaft Model	Drive Disc	Companion Flange	Driveshaft Model Without Torsional Coupling (See Note 3)	"G" Vertical Parallel Offsets of Shafts	Torsional Coupling Model	Driveshaft Model With Torsional Coupling (See Note 3)	"G" Vertical Parallel Offsets of Shafts
JU4H-UFAEA0, UF10, 12, 04, 14 ,20, 22, UF24	CDS10		C08448	CF10	CDS10-31	24.6 ±12.2 [0.97] ±[0.48]	TC15-11.5-41-FS	CDS10-29	22.8 ±11.4 [0.90] ±[0.45
JU4R-UF09, 11, 13, 19, 21, 23, AEA9	CDS10		C08448	CF10	CDS10-31	24.6 ±12.2 [0.97] ±[0.48]	TC15-11.5-41-FS	CDS10-29	22.8 ±11.4 [0.90] ±[0.45
JU4H-UF34, H0, AEE8, AEF2, ADJ8, ADJ2, H2, 40, 42 (Note 2)	CDS20		C08448	CF20	CDS20-31	24.0 ±12.0 [0.95] ±[0.47]	TC15-11.5-55-FS	CDS20-28	21.6 ±10.8 [0.85] ±[0.43
JU4H-UF34, H0, AEE8, AEF2, ADJ8, ADJ2, H2, 40, 42 (Note 2)	CDS20		C08448	CF20	CDS20-31	24.0 ±12.0 [0.95] ±[0.47]	TC25-11.5-55-FS	CDS20-28	21.3 ±10.6 [0.84] ±[0.42
JU4R-UF40, UFAEE7, AEF1	CDS20		C08448	CF20	CDS20-31	24.0 ±12.0 [0.95] ±[0.47]	TC15-11.5-55-FS	CDS20-28	21.3 ±10.6 [0.84] ±[0.42
JU4H-UF58, AD58, UF50, UF52, UF54, ADJG, ADP0, ADR0, ADW8, ADY8	CDS30		C083762	CF30	CDS30-31	22.7 ±11.3 [0.89] ±[0.45]	TC25-11.5-61-FS	CDS30-28	20.0 ±10.0 [0.79] ±[0.39
JU4R-UF49, 51, 53	CDS30		C083762	CF30	CDS30-31	22.7 ±11.3 [0.89] ±[0.45]	TC25-11.5-61-FS	CDS30-28	20.0 ±10.0 [0.79] ±[0.39
JU4H-UFAD98	CDS50		C083763	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.42]	TC35-11.5-81-FS	CDS50-28	18.9 ±9.4 [0.74] ±[0.37
JU6H-UFD0, D2, 30, 32, 34	CDS20		C08448	CF20	CDS20-31	24.0 ±12.0 [0.95] ±[0.47]	TC25-11.5-55-FS	CDS20-28	21.3 ±10.6 [0.84] ±[0.42
JU6H-UFM8, M0, M2, 58, ADMG, 50, 52, 54, ADK0, ADNG, ADN0, ADQ0, ADR0, 60, 62, 84	CDS30		C083762	CF30	CDS30-31	22.7 ±11.3 [0.89] ±[0.45]	TC35-11.5-61-FS	CDS30-28	20.0 ±10.0 [0.79] ±[0.39
JU6H-UF94		VA61A	C083762	CF30	VA61A-31	22.7 ±11.3 [0.89] ±[0.45]	TC35-11.5-61-FS	VA61A-28	20.0 ±10.0 [0.79] ±[0.39
JU6H-UFAAPG, Q8, AARG, ADP8, AD88, ADR8, ADS8, AAS0, ADW8, AD98, ADX8	CDS50		C083763	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.42]	TC35-11.5-81-FS	CDS50-28	18.9 ±9.4 [0.74] ±[0.37
JU6H-UFADW8, AD98, ADX8, AAT8	CDS50		C083763	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.42]	TC45-11.5-81-FS	CDS50-28	18.9 ±9.4 [0.74] ±[0.37
JU6H-UFADPO, ADTO, AATO, AAT2	CDS50		C083763	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.42]	TC35-11.5-81-FS	CDS50-28	18.9 ±9.4 [0.74] ±[0.37
JU6R-UFAAD9, D1, 29, 31, 33	CDS20	VA81A <sup>3</sup>	C08448	CF20	VA81A-31 CDS20-31	24.0 ±12.0 [0.95] ±[0.47]	TC25-11.5-55-FS	VA81A-28 CDS20-28	21.3 ±10.6 [0.84] ±[0.42
JU6R-UFAAM7, M9, M1, 57, 49, 51, 53, 59, 61, 83	CDS30		C083762	CF30	CDS30-31	22.7 ±11.3 [0.89] ±[0.45]	TC35-11.5-61-FS	CDS30-28	20.0 ±10.0 [0.79] ±[0.39
JUGR-UFAAPF, Q7, RF, S9	CDS50		C083763	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.42]	TC35-11.5-81-FS	CDS50-28	18.9 ±9.4 [0.74] ±[0.37
JW 6H-UFADD0, ADF0	CDS50		C083763	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.42]	TC45-11.5-81-FS	CDS50-28	18.9 ±9.4 [0.74] ±[0.37
JW6H-UFADJ0	CDS50		C083763	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.42]	TC50-11.5-81-FS	CDS50-25	16.2 ±8.1 [0.64] ±[0.32
JW 6H-UFAD70	CDS50		C083763	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.42]	TC50-11.5-81-FS	CDS50-25	16.2 ±8.1 [0.64] ±[0.32
JW 6H-UFAD80, AA80	CDS50 <sup>1,2</sup>	12	C083763	CF50	CDS50-31	21.6 ±10.8	TC50-11.5-81-FS	CDS50-25	16.2 ±8.1
JW6H-UFAA60 3		VA81A 1,3 VA81A <sup>3</sup>	C083763	CF50	VA81A-31 VA81A-31	[0.85] ±[0.42] 21.7 ±10.9 [0.85] ±[0.42]	TC50-11.5-81-FS	VA81A-25 VA81A-25	[0.64] ±[0.32 16.2 ±8.1 [0.64] ±[0.32

- 1. CAUTION: THE DRIVESHAFT IS DESIGNED TO OPERATE AT A 2' ANGLE WITH THE INPUT AND THE OUTPUT SHAFTS IN PARALLEL OFFSET OF "G" INCH VERTICALLY ABOVE OR BELOW THE ENGINE CRANKSHAFT CENTERLINE (DATUM B). THE OFFSET SHOULD BE 0.00" PARALLEL OFFSET HORIZONTALLY RIGHT OR LEFT OF DATUM B. REFER TO THE CERTIFIED DRIVESHAFT INSTALLATION MANUAL FOR ALIGNMENT
- INSTRUCTIONS.

  2. BASED ON THE TORSIONAL VIBRATION ANALYSIS (TVA) THE SIZE OF THE TORSIONAL COUPLING COULD CHANGE TO A SMALLER TC15-11.5-55-FS. NOTE: THIS WILL AFFECT THE FINAL INSTALLATION (DIMENSIONS "C" SHOWN IN THE DIAGRAM AT THE TOP OF THE PAGE). THE PUMP INSTALLER MUST BE MADE AWARE OF THIS CHANGE.

  3. LENGTHS SHOWN USE THE VALUE FOR THE LISTED DRIVESHAFT WHERE AVAILABLE.

- 1 -1760 RPM ONLY
- 2 -2100 RPM ONLY
- 3 -2350 RPM ONLY
- 4 -1470 RPM ONLY
- 5 -1800 RPM ONLY
- 6 -2650 RPM ONLY 7 -1900 RPM ONLY

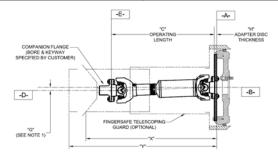
CONTROLLED DRAWING **CLARKE** ENCLOSED UNIT TORSIONAL COUPLING AND-OR DRIVESHAFT SELECTION MATRIX AHIGGINS 2/22/2018 D769 ENCLOSURE REDESIGN MM [INCH] PAGE 1

NTS

**DATUMS** 

-A---MOUNTING FACE OF FLYWHEEL -B--ENGINE CRANKSHAFT CENTERLINE -D--PUMP OR RIGHT ANGLE GEAR SHAFT HORIZONTAL CENTERLINE

-E--END OF PUMP OR RIGHT ANGLE GEAR SHAFT



Clarke Engines, UL/FM approved Heat Exchanger and Radiator Cooled Models	UL Listed Driveshaft Model	Non-Listed Driveshaft Model	Drive Disc	Companion Flange	Driveshaft Model Without Torsional Coupling (See Note 3)	"G" Vertical Parallel Offsets of Shafts	Torsional Coupling Model	Driveshaft Model With Torsional Coupling (See Note 3)	"G" Vertical Parallel Offsets of Shafts
DQ6H-UFAA50	CDS50		C 084947	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.43]	TC45-14-81-FS	CDS50-28	18.9 ±9.4 [0.74] ±[0.37]
DQ6H-UFAA60,88,98	CDS50		C 084947	CF50	CDS50-31	21.6 ±10.8 [0.85] ±[0.42]	TC50-14-81-FS	CDS50-27	18.0 ±9.0 [0.71] ±[0.35]
JX6H-UFA DF0, A D60, A DK0, A DN0, A DPO, A D88		VA 2365	C 084930	18 0 - 10	VA 2365-31	19.6±9.8 [0.77] ±[0.39]	TC55-14-180.10-FS	VA 2365-27	15.8 ±7.9 [0.62] 2±[0.31]
DR8H-UFAA40, AA5G, AA68, AA62		VA 2365	C084930	18 0 - 10	VA 2365-31	19.6±9.8 [0.77] ±[0.39]	TC55-14-180.10-FS	VA 2365-27	15.8 ±7.9 [0.62] 2±[0.31]
DS0H-UFAAM 0, AAN 0, AA 68, AA 60, AA 92		VA 2365	C084930	180-10	VA 2365-31	19.6±9.8 [0.77] ±[0.39]	TC55-14-180.10-FS	VA 2365-27	15.8 ±7.9 [0.62] 2±[0.31]
D SOR-UF A A 67, A A 59		VA 2365	C084930	180-10	VA 2365-31	19.6±9.8 [0.77] ±[0.39]	TC55-14-180.10-FS	VA 2365-27	15.8 ±7.9 [0.62] 2±[0.31]
DS0H-UFAA98		VA 2365	C084930	180-10	VA 2365-31	19.6±9.8 [0.77] ±[0.39]	TC55-14-180.10-FS	VA 2365-27	15.8 ±7.9 [0.62] 2±[0.31]
DT2H-UFAA20,58,50		VA 2365	C084930	180-10	VA 2365-31	19.6±9.8 [0.77] ±[0.39]	TC60-14-180.10-FS	VA 2365-27	15.6 ±7.8 [0.62] 2±[0.31]
DT2R-UFAA19,49		VA 2365	C084930	180-10	VA 2365-31	19.6±9.8 [0.77] ±[0.39]	TC60-14-180.10-FS	VA 2365-27	15.6 ±7.8 [0.62] 2±[0.31]
DT2H-UFAA60,92,98		VA 2390	C084930	18 0 - 10	VA 2390-35	23.4 ±11.7 [.92] ±[0.46]	TC60-14-180.10-FS	VA 2390-31	19.5 ±9.8 [0.77] ±[0.38]
DT2H-UFAA88		VA 2390	C084930	18 0 - 10	VA 2390-31	19.8 ±9.9 [0.78] ±[0.39]	TC60-14-180.10-FS	VA 2390-27	15.6 ±7.8 [0.62] 2±[0.31]
CAT 18H0-UFAD 176-0460, UFAD 190-0488, UFAD 210- 0488, UFAD 176-0510, UFAD 190-0525, UFAD 210-0525, UFAD 176-0542, UFAD 190-0575, UFAD 210-0575, UFAD 176-0600, UFAD 190-0600, UFAD 210-0600 UFAD 210-0650, UFAD 176-0687, UFAD 210-0700		VA 2365	C 084930	18 0 - 10	VA 2365-33	21.3 ±10.7 [0.84] ±[0.42]	TC55-14-180.10-FS	VA 2365-29	17.6±8.8 [0.69] ±[0.35]
C 18 H O-UFA D 18, 10, 28, 20, 38, 30, 48, 40, 50 <sup>2</sup> , 68, 70 <sup>2</sup> CAT 18 H O-UFA D 176-0650, UFA D 190-0650, UFA A 17-0700, UFA D 176-0700, UFA D 190-0700, UFA C 176-0755, UFA C 190-0755, UFA C 190-0800, UFA C 210-0800 UFA C 190-0800, UFA C 210-0800 C 18 H O-UFA D 58, 50 <sup>7</sup> , 78, 70 <sup>7</sup> , C 18 H O-UFA A 78, C 18 H O-UFA C 180, 10, 28, 20		VA 2390	C 084930	18 0 - 10	VA 2390-33	21.7 ±10.8 [0.85] ±[0.42]	TC55-14-180.10-FS	VA 2390-29	17.9±9.0 [0.71] ±[0.35]

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5 -1800 RPM ONLY 6 -2650 RPM ONLY

7 -1900 RPM ONLY

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X X	DATE 2/22/2018 ENGR AHIGGINS AHIGGINS		ENCLOSED UNIT TORSIONAL COUPLING AND-OR DRIVESHAFT SELECTION MATRIX					
FABRICATION TOLERANCE DECIMAL mm inch X ±2 XX ±15 ±0.12 XXX ±15 ±0.05	ASSEMBLY ENCLOSURE		PART NO.	D76	9	PAGE OF	1	
ANGULAR: ±1.0	N/A	A.	NTS	MM [INCH]		2 2	1	