*** Released For Use ***

8 | SAY WHAT YOU DO | 6 | STOP, LOOK AND LISTEN FOR SAFETY | 3 | DO WHAT YOU SAY | 1

OPERATING CONDITIONS

RATED (1,764 kW)	2,366 HP @ 4,755 RPM
NORMAL (701 kW)	940 HP @ 3,371 RPM
NORMAL TORQUE	17,574 IN-LB (1,986 N-m)
MAX CONTINUOUS TORQUE	31,360 IN-LB (3,543 N-m)
SELECTION TORQUE (INCLUDES 1.6 S.F.)	50,176 IN-LB (5,669 N-m)
OPERATING RANGE (INCLUDING TRIP SPEED)	2,265/5,231 RPM

COUPLING RATING

MAX CONTINUOUS TORQUE	75,000 IN-LB (8,474 N-m)
PEAK TORQUE	100,000 IN-LB (11,298 N-m)
MAX MOMENTARY TORQUE	132,000 IN-LB (14,914 N-m)

MASS ELASTIC DATA

COMPONENT WEIGHT

	DRIVING	DRIVEN
SPECIAL ADAPTER	3.8 LB (1.7 Kg)	7.5 LB (3.4 Kg)
ADAPTER (INCL. 1/2 DISC PACK)	6.0 LB (2.7 Kg)	6.0 LB (2.7 Kg)
SPACER (INCL. 1/2 OF EACH DISC PACK)	7.0 LB (3.2 Kg)	
TOTAL COUPLING WEIGHT (BORED)	30.3 LB (13.7 Kg)	
MOMENT OF INERTIA (WR^2)	285 LB-IN^2 (.083 kg-m^2)	
TORSIONAL STIFFNESS (BASED ON 1/3 SHAFT PENETRATION)	4.65 X 10^6 IN-LB/RAD (.52 X 10^6 Nm/RAD)	
DISC PACK ANGULAR STIFFNESS	1,270 IN-LB/DEG (143 N-m/DEG)	
LATERAL CRITICAL SPEED (SIMPLY SUPPORTED TUBE)	1,522,000 RPM	

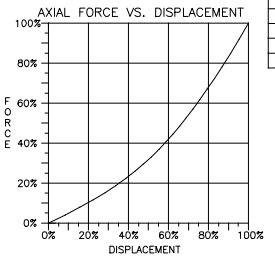
MISALIGNMENT:	ANGULAR	AXIAL
RECOMMENDED LIMIT	0.10 DEG	±10% OF MAX CONTINUOUS
MAX CONTINUOUS	0.25 DEG	±0.100 (2.54 mm)

NOTE: TRANSIENT AXIAL MISALIGNMENT CAN BE 133% OF MAX CONTINUOUS

DISC PACK ℄ TO ℄ DISTANCE — 3.0 (76.2 mm)

MAX CONTINUOUS PARALLEL OFFSET — 0.013 (.330 mm)

AXIAL FORCE VS. DISPLACEMENT



AXIAL DISPLACEMENT ±(IN)	±(mm)	(% OF CONT.)	FORCE (LB)	(N)
0.100	2.54	100	557	3,478
0.050	1.27	50	166	738
0.010	0.254	10	26	116
0.000	0.000	0	0	0

PRODUCTION DRAWINGS DRAWING NO.	DESCRIPTION
CC69883	SHIM PACK
CC68493	DISC PACK
CB73279	ASSEMBLY DWG

LIST OF MATERIAL AND DRAWINGS FOR ONE COUPLING

	QTY	PART NO.	PART DESCRIPTION	MATERIAL	MK NO.
(1)	1	1118723	FLANGE ADAPTER	AISI 4140 HT	1
	2	CC72148	ADAPTER	AISI 4140 HT	2
	1	1156478	SPACER	AISI 4140 HT	3
	2	FX10611	DISC PACK ASSEMBLY	301 STAINLESS STL	4
	16	WA82274	7/16-20 NF x 1.75 CAPS	ALLOY STEEL	5
	16	WA26054	7/16-20 NF LOCKNUT	ALLOY STEEL	6
	16	WA80623	7/16 HARDENED WASHER	ALLOY STEEL	7
□	27	WA82270	1/4-28 NF x 1.00 CAPS	ALLOY STEEL	8
□	27	WA82240	1/4-28 NF LOCKNUT	STEEL	9
	2	FX10139	0.050 SHIM PACK	STEEL	10
□	14	WA83574	1/4-28 NF x 1.24 CAPS	ALLOY STEEL	11
□	14	WA26051	1/4-28 NF LOCKNUT	STEEL	12
*	8	WA08333	1/4-28 NF x 1.25 SHCS	ALLOY STEEL	13
*	8	WA82010	3/8-24 NF x 1.25 S.S.	ALLOY STEEL	14
	1	1118719	FLANGE ADAPTER	AISI-4140 HT	15
□	18	WA83771	1/2-20 NF X 1.50 CAPS	STEEL	16
□	18	WA82244	1/2-20 NF LOCKNUT	STEEL	17
**	1	1117999	MOMENT SIMULATOR,DRIVING	AISI 4140 HT	18
**	12	WA83574	1/4-28 NF x 1.24 CAPS	ALLOY STEEL	19
**	12	WA26051	1/4-28 NF LOCKNUT	STEEL	20
**	1	1118144	MOMENT SIMULATOR,DRIVEN	AISI 4140 HT	21
**	16	WA83771	1/2-20 NF X 1.50 CAPS	STEEL	22
**	16	WA82244	1/2-20 NF LOCKNUT	STEEL	23
**	1	1100036	INSTALLATION TOOLING	STEEL	24

□ – QUANTITY INCLUDES AN ADDITIONAL 10%

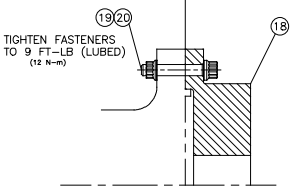
* – INDICATES 'SHIPPING SCREWS' NOT SHOWN.
'SHIPPING SCREWS' – YELLOW COLLAPSING CAPSCREWS
RED LOCKING SETSCREWS

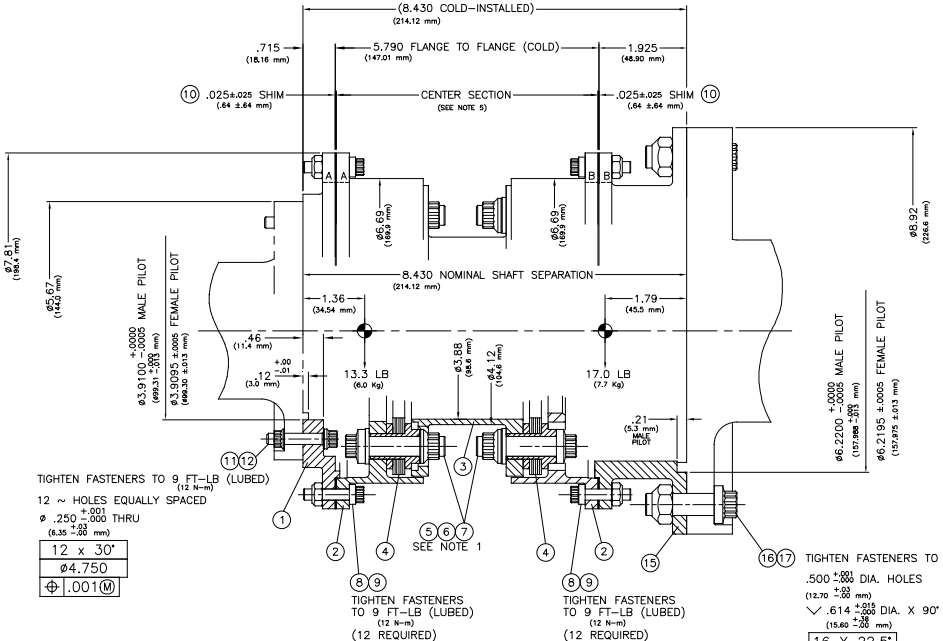
NOTE: ALL 'SHIPPING SCREWS' MUST BE REMOVED AT FINAL ASSEMBLY. (SEE INSTALLATION INSTRUCTION 16-602)

** INDICATES ITEMS NOT PART OF THE COUPLING STRUCTURE & MUST BE SPECIFIED ON ORDER

DRIVING UNIT
STEAM TURBINE
10-BT1201

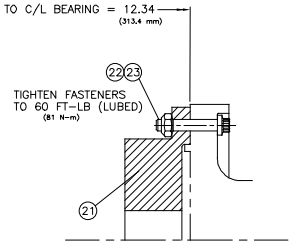
VIEW SHOWING MOMENT SIMULATOR SHAFT END TO C/L BEARING = 9.24 (234.7 mm)





DRIVEN UNIT
GEARBOX

VIEW SHOWING MOMENT SIMULATOR SHAFT END TO C/L BEARING = 12.34 (313.4 mm)



NOTES:

1. KOP-FLEX DISC COUPLINGS ARE PROVIDED AS FACTORY ASSEMBLED UNITS. WARNING: DO NOT TIGHTEN OR LOOSEN DISC PACK BOLTS AND NUTS.
2. COUPLING IS DESIGNED IN ACCORDANCE WITH API 671, WITH STANDARD EXCEPTIONS PER KOP-FLEX FORM #16-1000.
3. COUPLING TO BE DYNAMICALLY BALANCED PER API 671. (COMPONENT BALANCE AND ASSEMBLY CHECK)
4. ⌖ INDICATES EFFECTIVE CENTER OF GRAVITY OF HALF COUPLING.
5. CENTER SECTION IS DESIGNED TO STRETCH FLEXIBLE ELEMENTS AT INSTALLATION. NOMINAL CENTER SECTION FREE LENGTH (UNSTRETCHED) = 5.729 (145.52 mm) SHIM AS REQUIRED TO OBTAIN PRESTRETCH VALUE OF (.011) (0.27 mm) AXIAL GROWTH (.011) (0.27 mm) – PRESTRETCH (.011) (0.27 mm) = RUNNING NEUTRAL.
6. THE REQUIRED BOLT TORQUE SHALL BE ETCHED ON EACH COUPLING HUB.
7. DRIVING AND DRIVEN FLANGE PER ELLIOTT DM 3.8.5 (REV 3/20/02).

P.R.# PRL006279-1
S.O.# E302701B

CUSTOMER: ELLIOTT CO.
INQUIRY NO.– BAL NO. 2834291
CUSTOMER'S ORDER NO.– P239359
KOP-FLEX'S CP– 2949401
QUANTITY– (1) ONE COUPLING, MK#S 18 THRU 23

ZONE	REV	REVISION DESCRIPTION	BY	DATE	CHK	APPR
	1	ECN15-0592; 1156478 WAS 1117993	JEK	4/17/15	LKR	LKR
	0	DUPLICATE P/N, WAS P/N 1117985 ORIGINAL	SSM	02/10/15	SDM	

CAP 1.04 NO

DWN TLP 9/12/03
CHK AMS 9/12/03
ENG ROB 9/12/03
APPR DATE

PROJECTION
SCALE TO SCALE
DO NOT SCALE DRAWING.
KEYWAY TOLERANCE PER AGMA 9002 UNLESS OTHERWISE SPECIFIED.
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.

KOP-FLEX
KOP-FLEX, Inc.
Power Transmission Products
Certified To ISO 9001 ABS/BVI/DNC Approved Certificate #30052

TITLE
KOP-FLEX™
#204 MP DISC COUPLING
DWG. NO. 1135752
SHEET 1 of 1
REV 1

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8 | 7 | 6 | 5 | 4 | 3 | 2 | 1