OPERATING CONDITIONS

NORMAL	[2,400 kW] 3,218 HP @ 14,250 RPM
MIN/MAX CONTINUOUS SPEED	9,975/15,000 RPM
NORMAL TORQUE	14,250 IN–LB [1,610 N–m]
SELECTION TORQUE (INCLUDES 1.50 S.F.)	21,375 IN–LB [2,415 N–m]
PEAK TORQUE (FOR INFINITE LIFE)	14,250±7,125 IN–LB [1,610±805 N–m]
PEAK TORQUE ((1±2.5)*1.15 FOR 10^4 CYCLES)	16,388±40,968 IN–LB [1,851±4,629 N–m]
PEAK TORQUE ((1±4)*1.15 FOR 10^3 CYCLES)	16,388±65,550 IN–LB [1,851±7,406 N–m]

COUPLING RATING

MAX CONTINUOUS TORQUE	83,000 IN–LB [9,377 N–m]
PEAK TORQUE (FOR INFINITE LIFE)	14,250±28,000 IN–LB [1,610±3,163 N–m]
PEAK TORQUE (FOR 10^4 CYCLES)	16,388±80,000 IN–LB [1,851±9,038 N–m]
PEAK TORQUE (FOR 10^3 CYCLES)	16,388±90,000 IN–LB [1,851±10,168 N–m]
MAX MOMENTARY TORQUE	132,000 IN–LB [14,913 N–m]
MAX SPEED	19,900 RPM

HUB/SHAFT INFORMATION	DRIVEN
TORQUE CAPACITY (BASED ON MU = 0.15)	116,500 IN–LB [13,162 N–m]
REQUIRED MOUNT AND DISMOUNT PRESSURE	26,600 PSI [183,407 kPa]
MAX ALLOWABLE ASSEMBLY PRESSURE	39,100 PSI [269,594 kPa]

MASS ELASTIC DATA

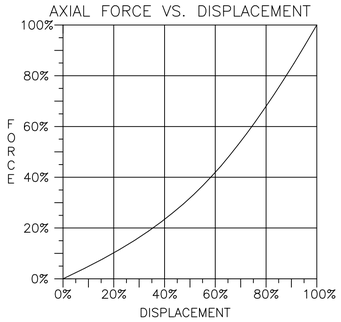
COMPONENT WEIGHT	DRIVING	DRIVEN
HUB (BORED, INCL. 1/2 DISC PACK)		13.5 LB [6.1 kg]
ADAPTER / SLEEVE (INCL. 1/2 DISC PACK)	6.2 LB [2.8 kg]	12 LB [5.4 kg]
SPACER (INCL. 1/2 DRIVING DISC PACK)	13.6 LB [6.2 kg]	
TOTAL COUPLING WEIGHT (BORED)	45.3 LB [20.5 kg]	
MOMENT OF INERTIA (WR^2)	300 LB–IN^2 [0.09 kg–m^2]	
TORSIONAL STIFFNESS (BASED ON 1/3 SHAFT PENETRATION)	2.2 X 10^6 IN–LB/RAD [0.25 X 10^6 N–m/RAD]	
DISC PACK ANGULAR STIFFNESS	1,270 IN–LB/DEG (DRIVING) [143 N–m/DEG]	
DISC PACK ANGULAR STIFFNESS	1,800 IN–LB/DEG (DRIVEN) [203 N–m/DEG]	
LATERAL CRITICAL SPEED (SIMPLY SUPPORTED TUBE)	46,100 RPM	

	ANGULAR	AXIAL
MISALIGNMENT: MAX CONTINUOUS	0.20 DEG	±0.111 [2.82]

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

DISC PACK ℄ TO ℄ DISTANCE	24.2 [615]
MAX CONTINUOUS PARALLEL OFFSET	0.084 [2.13]

AXIAL FORCE VS. DISPLACEMENT



AXIAL DISPLACEMENT ±(IN)	±[mm]	(% OF CONT.)	FORCE (LB)	[N]
0.111	2.82	100	605	2,691
0.056	1.42	50	175	778
0.011	0.28	10	26	116
0.000	0.00	0	0	0

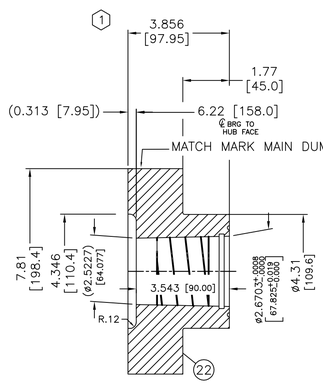
PRODUCTION DRAWINGS DRAWING NO.	DESCRIPTION
CC69883	SHIM PACK
CC66810	SHIM PACK
CC68493	DISC PACK
CC68331	DISC PACK, A/W
1143827	ASSEMBLY DWG
1143828	ASSEMBLY DWG
CA68316	DISC, A/W
CA91438	BALANCE SPEC.

LIST OF MATERIAL AND DRAWINGS FOR ONE COUPLING

	QTY	PART NO.	PART DESCRIPTION	MATERIAL	MK NO.
	1	1143822	HUB, DRIVEN	AISI 4340 HT	1
	1	1143823	DRIVING ADAPTER	AISI 4140 HT	2
	1	1143824	DRIVEN SLEEVE	AISI 4140 HT	3
	1	1143825	SPACER	AISI 4140 HT	4
	1	FX10611	DISC PACK ASSEMBLY	301 STAINLESS STL	5
	1	CX99873	DISC PACK ASSEMBLY	301 STAINLESS STL	6
	8	WA82274	7/16–20 NF x 1.75 CAPS	ALLOY STEEL	7
	8	FX14148	7/16–20 NF x 2.00 CAPS	ALLOY STEEL	8
	8	WA26054	7/16–20 NF LOCKNUT	ALLOY STEEL	9
	8	WA82243	7/16–20 NF LOCKNUT	STEEL	10
	16	WA80623	7/16 HARDENED WASHER	ALLOY STEEL	11
□	14	WA82270	1/4–28 NF x 1.00 CAPS	ALLOY STEEL	12
□	12	WA82271	5/16–24 NF x 1.30 CAPS	ALLOY STEEL	13
□	14	WA26051	1/4–28 NF LOCKNUT	STEEL	14
□	12	WA26052	5/16–24 NF LOCKNUT	STEEL	15
	1	FX10139	0.050 SHIM PACK	STEEL	16
	1	CX99686	0.060 SHIM PACK	STEEL	17
*	4	WA08333	1/4–28 NF x 1.25 SHCS	ALLOY STEEL	18
*	4	WA80736	1/4–28 NF x 0.88 SHCS	ALLOY STEEL	19
*	4	WA82010	3/8–24 NF x 1.25 S.S.	ALLOY STEEL	20
*	4	WA81375	3/8–24 NF x 0.75 S.S.	ALLOY STEEL	21
**	1	1143826	DUMMY HUB	AISI 4340 HT	22
(2) **	1	1144193	MOMENT SIMULATOR	AISI 4340 HT	23
** □	14	WA82270	1/4–28 NF x 1.00 CAPS	ALLOY STEEL	24
** □	14	WA26051	1/4–28 NF LOCKNUT	STEEL	25

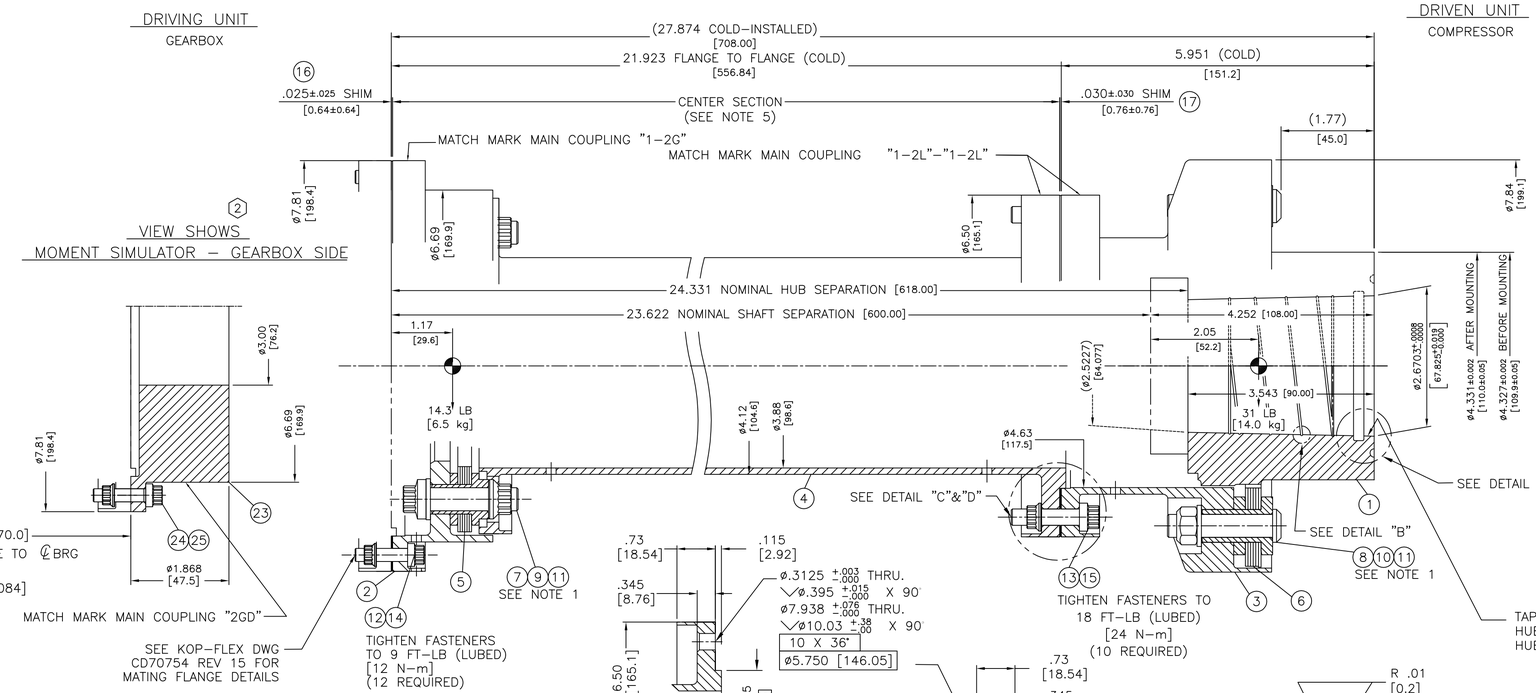
□ – QUANTITY INCLUDES AN ADDITIONAL 10%
* – INDICATES 'SHIPPING SCREWS' NOT SHOWN.
'SHIPPING SCREWS' – YELLOW COLLAPSING CAPSCREWS
RED LOCKING SETSCREWS
** – INDICATES ITEM NOT PART OF THE COUPLING STRUCTURE AND MUST BE SPECIFIED ON THE ORDER.

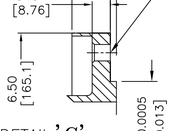
NOTE: ALL 'SHIPPING SCREWS' MUST BE REMOVED AT FINAL ASSEMBLY. (SEE INSTALLATION INSTRUCTION 16–616)



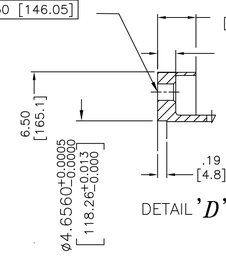
VIEW SHOWING OPTIONAL DRIVEN DUMMY HUB

HUB/SHAFT INTERFERENCE = 0.0031/0.0033[0.078/0.084]
HUB PULL–UP = 0.074/0.079[1.87/2.00]

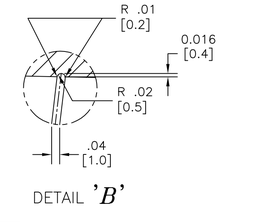




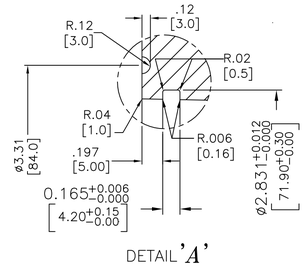
DETAIL 'C'



DETAIL 'D'



DETAIL 'B'



DETAIL 'A'

DU282403900
JASMINE

NOTES:

KOP–FLEX DISC COUPLINGS ARE PROVIDED AS FACTORY ASSEMBLED UNITS.
WARNING: DO NOT TIGHTEN OR LOOSEN DISC PACK BOLTS AND NUTS.

1. COUPLING IS DESIGNED IN ACCORDANCE WITH API 671, WITH STANDARD EXCEPTIONS PER KOP–FLEX FORM #16–1000.
2. COUPLING TO BE DYNAMICALLY BALANCED PER API 671. (COMPONENT BALANCE AND ASSEMBLY BALANCE WITH REPEATABILITY AND KOP–FLEX HIGH SENSITIVITY BALANCE CA91438)
3. ⌖ INDICATES EFFECTIVE CENTER OF GRAVITY OF HALF COUPLING. (1)
4. CENTER SECTION IS DESIGNED TO STRETCH FLEXIBLE ELEMENTS AT INSTALLATION.
   NOMINAL CENTER SECTION FREE LENGTH (UNSTRETCHED) = 21.849 [554.97]
   SHIM AS REQUIRED TO OBTAIN PRESTRETCH VALUE OF 0.019 [0.48]
   NORMAL: AXIAL GROWTH (0.019 [0.48]) – PRESTRETCH (0.019 [0.48]) = RUNNING NEUTRAL
   START–UP: AXIAL GROWTH (0.048 [1.23]) – PRESTRETCH (0.019 [0.48]) = RUNNING COMPRESSED (0.029 [0.75])
5. FIELD BALANCE HOLES SUPPLIED IN DRIVING ADAPTER FLANGE (QTY 12 – 1/4–28 NF TAPPED HOLES PER FLANGE ON A 7.1875 [182.56] BOLT CIRCLE).
   FIELD BALANCE HOLES SUPPLIED IN DRIVEN SPACER FLANGE (QTY 10 – 5/16–24 NF TAPPED HOLES PER FLANGE ON A 5.750 [146.05] BOLT CIRCLE).
6. DRIVING BORE PER SIEMENS SPECIFICATION KSEW–49.050
7. DRIVEN BORE PER SIEMENS SPECIFICATION KSEW–49.016
8. ANTI–WINDAGE RM DISC PACKS ARE USED IN DESIGN.
9. COUPLING TO COMPLY WITH SIEMENS SPECIFICATION 28088716

REFERENCE DRAWINGS

DRAWING No.	TITLE

REV	DATE	DESCRIPTION	BY	CKD	LEAD ENGR	AUTH'D	CLIENT ACCEPT
A3	13.01.11	Issued for Review	JB	Terst			
A2	01.12.10	Issued for Review	JB	Terst			
A1	08.11.10	Issued for Review	JB	Terst			

MAIN CONTRACTOR: WorleyParsons resources & energy
SUB CONTRACTOR: SIEMENS AG Energy Sector Oil & Gas Division

FACILITY CODE	SYSTEM CODE	AREA CODE	DISC CODE	SDRL CODE	DOC TYPE
JA04	45	N/A	AM	B01	12

PROJECT TITLE: JASMINE DEVELOPMENT PROJECT

CLIENT	CONTRACT - No.
CONOCOPHILLIPS	NSBU-064101

ConocoPhillips — JASMINE

DRAWING TITLE: Coupling Dim Drawing
Gear/Compressor (High Speed)
AX-JURP-045-XX1014

SCALE	DRAWING No.	REV.
	JA04-35-AM-00012	A3

Index Rev.	Abtlg. Dept.	Datum Date	bearb. coord.	geprüft * checked	Benennung / Title
02	COP13	13.01.2011	JB	Terst	Coupling Dim Drawing
—	COP13	08.11.2010	JB	Terst	Gear/Compressor (High Speed)

Siemens AG Energy Sector Oil & Gas Division | Format: A1 | Ident-Nr./Unterlagen-Nr. Ident-Number/Document-Number: 27832616 | Index/Rev.: 02 | Spr./Lg.: de/en | Blatt/Sheet: 1/1

*Geprüft: Diese Prüfung nimmt den Lieferanten nicht aus seiner Verantwortung
*Checked: This check does not release the supplier from his obligations

CUSTOMER: SIEMENS
INQUIRY NO.– BAL NO. 6601845
CUSTOMER'S ORDER NO.– 163/1295700
KOP–FLEX'S CP– 6640828
QUANTITY– ONE (1) COUPLING, ONE (1) DUMMY HUB
ONE (1) MOMENT SIMULATOR

ZONE	REV	REVISION DESCRIPTION	BY	DATE	CHK	APPR
	2	ECN11–0016; ADD MOMENT SIMULATOR	PB	1/12/11	JB	JB
	1	ECN10–0967;ADD DUMMY HUB, PRESTR.	PB	12/6/10	JB	JB

CAP 2.02 NO

PROJECTION — SCALE TO SCALE

DWN	PB	10/25/10
CHK	JB	10/25/10
ENG	TPO	11/16/10
APPR		

DO NOT SCALE DRAWING.
KEYWAY TOLERANCE PER AGMA 9002 UNLESS OTHERWISE SPECIFIED.
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.
DIMENSIONS IN BRACKETS [ ] ARE IN MILIMETERS

KOP-FLEX — KOP–FLEX, Inc. Power Transmission Products
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TITLE: KOP-FLEX™ #204 MP/#254 RM
DWG. NO. 1143692 | SHEET 1 of 1 | REV 2

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