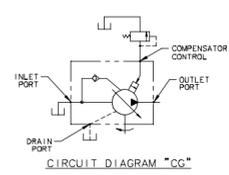
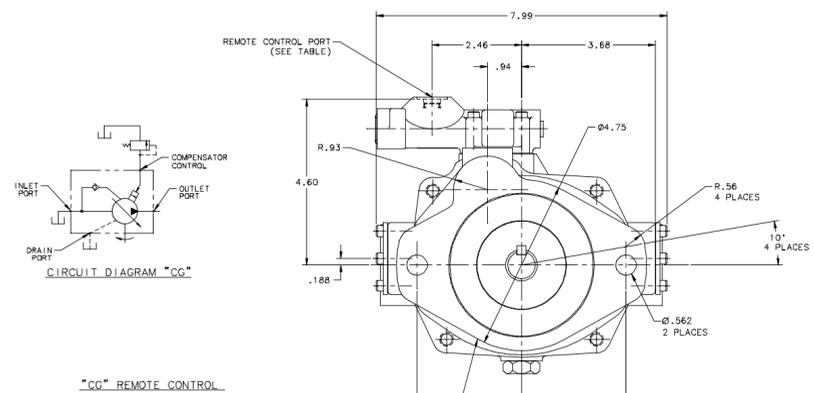
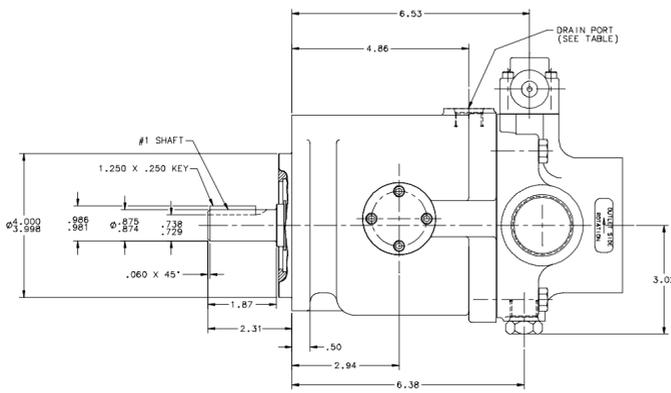
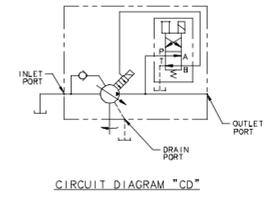


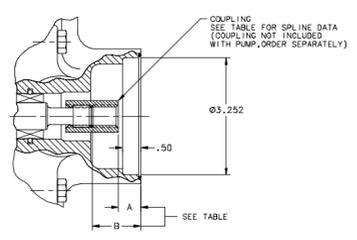
REV	DESCRIPTION	DATE	APPROVED



"CG" REMOTE CONTROL

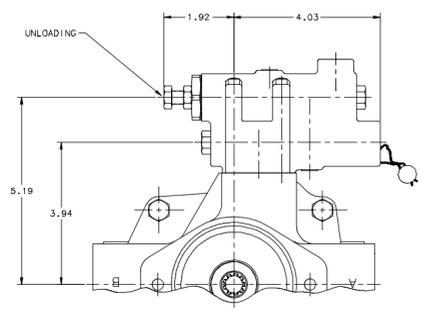


CIRCUIT DIAGRAM "CD"

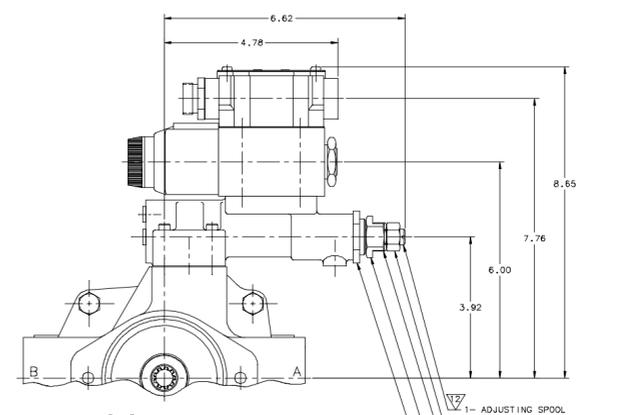


AUXILIARY SPLINE DATA	NO. TEETH	A	B	MAX. OUTPUT TORQUE IN-LBS
A9	9	.66	1.30	517
A11	11	.73	1.54	1050

SPLINE DATA A9			
INTERNAL INVOLUTE SPLINE			
ASA B9.15-1960			
.5625	PITCH DIA	.4871	BASE DIA
FLAT ROOT		SIDE FIT	
9	TEETH	16 / 32 PITCH	30° PR ANGLE
.6360	MAJOR DIA	.5139	MINOR DIA
.6250	MAX	.5089	MIN
SPLINE DATA A11			
INTERNAL INVOLUTE SPLINE			
ANSI B92.1-1970			
.6875	PITCH DIA	.59539	BASE DIA
FLAT ROOT		SIDE FIT	
11	TEETH	16 / 32 PITCH	30° PR ANGLE
.7760	MAJOR DIA	.6360	MINOR DIA
.7650	MAX	.6310	MIN

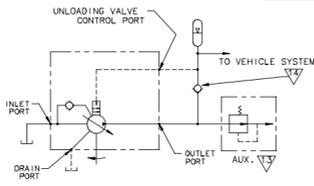


"UV" UNLOADING VALVE



"CD" DUAL RANGE ELECTRIC COMPENSATOR

- 1- ADJUSTING SPOOL SETS SECOND STAGE PRESS.
- 2- LOCKNUT (.68 ACROSS FLATS)
- 3- LOCKNUT LOCKNUT MUST BE CONTAINED WITHIN SLOT OF ADJUSTING SCREW AS SHOWN
- 4- ADJUSTING SCREW (1.00 ACROSS FLATS) SETS FIRST STAGE PRESSURE
- 5- LOCKNUT (1.25 ACROSS FLATS)



CIRCUIT DIAGRAM "UV"

ROTATION & OUTLET PORT LOCATION LABEL.

2 INSTALLATION INFORMATION
 HORIZONTAL MOUNTING IS RECOMMENDED TO MAINTAIN NECESSARY CASE FLUID LEVEL. THE CASE DRAIN LINE MUST BE FULL SIZE UNRESTRICTED AND CONNECTED FROM THE UPPERMOST DRAIN PORT DIRECTLY TO THE RESERVOIR IN SUCH A MANNER THAT THE HOUSING REMAINS FILLED WITH FLUID. PIPING OF DRAIN LINE MUST PREVENT SIPHONING. PIPING OF DRAIN LINE THAT TERMINATES BELOW RESERVOIR FLUID LEVEL NO OTHER LINES ARE TO BE CONNECTED TO THIS DRAIN LINE. CAUTION MUST BE EXERCISED TO NEVER EXCEED 5 PSI UNIT CASE PRESSURE.
 BEFORE STARTING, FILL CASE WITH SYSTEM FLUID THRU UPPERMOST DRAIN PORT. HOUSING MUST BE KEPT FULL AT ALL TIMES TO PROVIDE INTERNAL LUBRICATION.

1 ALL SPECIFICATIONS, PERFORMANCE, NOTES, AND OTHER APPLICABLE INFORMATION SHOWN IN DANFOSS LITERATURE

- 8 TOLERANCES: (UNLESS OTHERWISE SPECIFIED)
 ANGULAR AND PARALLEL RELATIONSHIPS +/- 0.30°
 2 PLACE DECIMALS +/- .060
 3 PLACE DECIMALS +/- .020
 BOXED DIMENSIONS ARE REF.
- 7 CARE SHOULD BE TAKEN THAT MECHANICAL AND HYDRAULIC RESONANCES ARE AVOIDED IN THE APPLICATION OF THIS COMPONENT. SUCH RESONANCES CAN SERIOUSLY COMPROMISE THE LIFE AND/OR SAFE OPERATION OF THE COMPONENT.
- CONSTRUCTION PLUG - DO NOT REMOVE.
- INPUT TORQUE NOT TO EXCEED 1200 IN-LBS FOR NO. 1, 1852 IN-LBS FOR NO. 3, & 1900 IN-LBS FOR N SHAFT. PLUS TAPPED AUXILIARY PUMP TORQUE WITH NO OVERHUNG LOAD. APPLICATIONS REQUIRING OVERHUNG LOAD CAPABILITY OR OTHER SHAFT ENDS ARE SUBJECT TO APPROVAL BY DANFOSS ENGINEERING.
- MATING PART TOLERANCES AND INSTALLATION PRACTICES MUST BE COMPATIBLE SO THAT INTERFERENCES DO NOT RESULT IN SHAFT SIDE LOAD DURING OPERATION.

- DATE, MODEL CODE, AND ASSEMBLY NUMBER STAMPED ON THIS PLATE UNLESS OTHERWISE SPECIFIED.
- COMPENSATOR ADJUSTMENT - CAUTION - WHILE PUMP IS OPERATING NO NOT BACK COMPENSATOR ADJUSTMENT OUT BEYOND 1.23 DIMENSION SHOWN.

ROTATION	OUTLET	INLET
L.H.	PORT "B"	PORT "A"
R.H.	PORT "A"	PORT "B"

- 1. WITH THE DIRECTIONAL VALVE DE-ENERGIZED, LOOSEN LOCKNUT "5" AND TURN THE ADJUSTING SCREW "4" TO THE DESIRED FIRST STAGE PRESSURE SETTING AND TIGHTEN LOCKNUT "5".
- 2. WITH SOLENOID DE-ENERGIZED, TURN ADJUSTING SPOOL "1" COUNTER-CLOCKWISE (CCW) UNTIL NUT "3" IS BOTTOMED IN ADJUSTING SCREW SLOT. (SECOND STAGE SETTING IS NOW EQUAL TO FIRST STAGE PRESSURE SETTING.) TURN ADJUSTING SPOOL CLOCKWISE (CW) TO DESIRED SECOND STAGE PRESSURE REQUIREMENTS. ONE COMPLETE TURN OF ADJUSTING SPOOL EQUALS APPROXIMATELY 600 PSI. ENERGIZE SOLENOID AND CHECK PRESSURE SETTING. DE-ENERGIZE SOLENOID AND READJUST IF NECESSARY. SECURE THIS SETTING BY TIGHTENING LOCKNUT "2".
- 15 THE MAXIMUM ECCENTRICITY BETWEEN SHAFT O.D. (OR SPLINE P.D.) AND PILOT DIA. IS .006 T.I.R. WHICH INCLUDES AN ECCENTRICITY OF .003 T.I.R. BETWEEN THE SHAFT AND ITS BEARING PILOT. MAXIMUM SQUARENESS DEVIATION OF MOUNTING FLANGE FACE TO AXIS OF SHAFT IS .0015 IN/IN. MATING PART TOLERANCES AND INSTALLATION PRACTICES MUST BE COMPATIBLE SO THAT INTERFERENCES DO NOT RESULT IN SHAFT SIDE LOAD DURING OPERATION. A COUPLING MAY BE USED TO PERMIT GREATER TOLERANCES IF IT DOES NOT RESULT IN SHAFT SIDE LOAD.
- CUSTOMER SUPPLIED CHECK VALVE. INTERNAL LEAKAGE NOT TO EXCEED 5 DROPS PER MINUTE.
- ANY FLOW TO AUX. CIRCUIT (INCLUDING LEAKAGE) WILL INCREASE TIME TO RECHARGE ACCUMULATOR. WHEN PUMP IS NOT CHARGING THE ACCUMULATOR, THIS PRESSURE WILL BE THE STANDBY PRESSURE.

REV	DESCRIPTION	DATE	APPROVED

DATE	02-334204	REV	1
TITLE	INSTALLATION VARIABLE DISPLACEMENT PISTON PUMP WITH THRU DRIVE AND CONTROLS		
DRAWING NO.	02-334204		
SCALE	1/1 IN		
SHEET	2 OF 2		