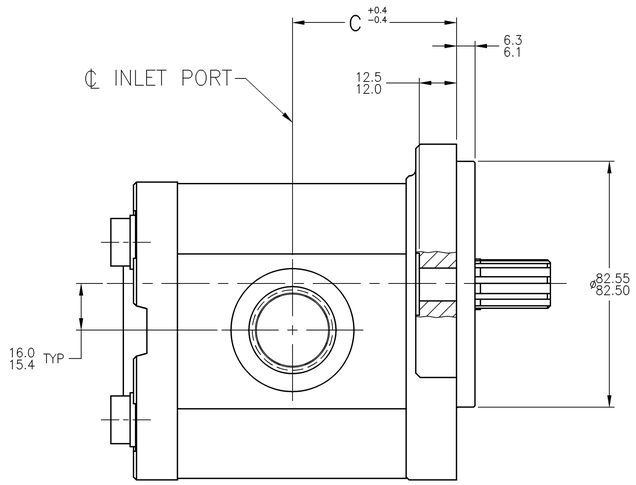
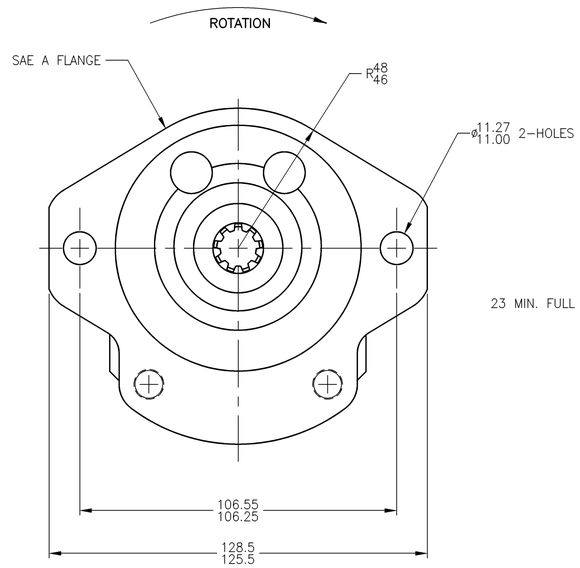
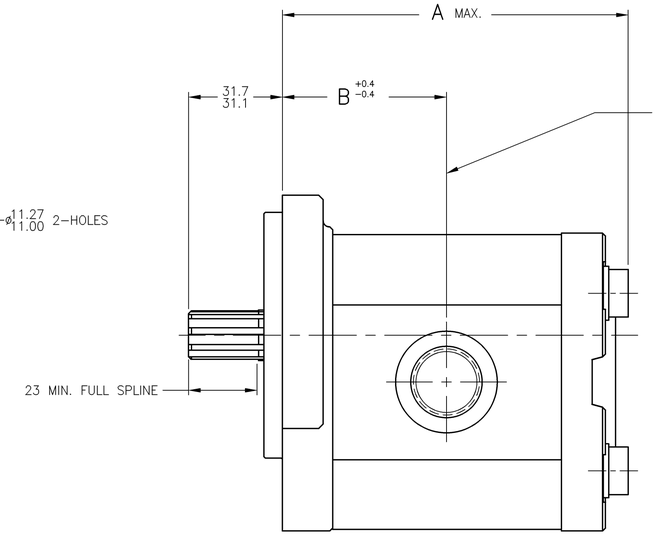
MODEL NUMBER	CATALOG NUMBER	DISPLACEMENT CM³/REV	OUTPUT FLOW ⚠3 LITERS/MIN	A DIM.	B DIM.	C DIM.	INLET PORT (SAE O-RING BOSS)	OUTLET PORT (SAE O-RING BOSS)	
9 510 290 015	AZ-P-F-12-004-RRR12MB	4.1	7.1	85.0	39.9	39.9	.875-14 UNF-2B THD.	.750-16 UNF-2B THD.	B1
									B2
9 510 290 017	AZ-P-F-12-008-RRR12MB	8.2	15.0	91.6	43.2	43.2			B3
9 510 290 018	AZ-P-F-12-011-RRR12MB	11.3	21.0	96.6	47.0	47.0	1.062-12 UN-2B THD.	.875-14 UNF-2B THD.	
9 510 290 019	AZ-P-F-12-016-RRR12MB-S0040	16.5	31.0	105.0	47.5	47.5			
9 510 290 020	AZ-P-F-12-019-RRR12MB-S0040	19.6	37.4	110.0	47.5	47.5			

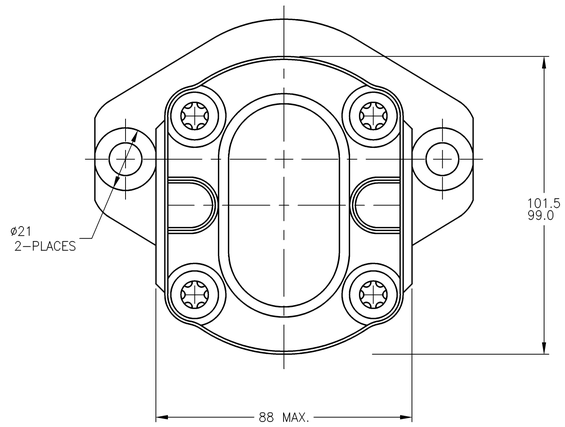
Ⓐ Ⓒ

REV	DESCRIPTION		DATE	BY	CKD
	RELEASE TO PRODUCTION	(CRR0133)	05-20-02	D.M.	D.N.
A	UPDATE CATALOG CODES	(CRR0204)	07-01-02	GRJ	GRJ
B	1) PORTS WERE 9/16-18 UNF-2B THD.	(CRR0319)	10-30-02	D.M.	GRJ
B	2) OBSOLETE PART NO. 9510290016	(CRR0319)	10-30-02	D.M.	GRJ
B	3) INLET WAS .875-14 UNF-2B THD.	(CRR0319)	10-30-02	D.M.	GRJ
C	3) ADDED S0040 CODE TO CATALOG NO.	(CRR1211)	03-16-05	D.N.	GRJ
D	WAS .87 MAX.	(CRR1282)	05-11-05	GRJ	D.N.









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⚠5 EXTERNAL INVOLUTE SPLINE DATA
FLAT ROOT SIDE FIT

FLAT ROOT SIDE FIT	
NO. OF TEETH	9
SPLINE PITCH	16/32
PRESSURE ANGLE	30°
PITCH DIA.	.56250 REF.
MAJOR DIA.	.6034-.6085
FORM DIA.	.504
CIRCULAR TOOTH THICKNESS:	
MAX.EFFECTIVE	.0942
MIN. ACTUAL	.0916

GENERAL NOTES:

1. METRIC LINEAR MEASUREMENTS ARE IN MILLIMETERS
2. ROTATION VIEWING DRIVE END: CLOCKWISE
3. ⚠3 OUTPUT FLOWS ARE AT 2000 RPM & 138 BAR USING SAE NO. 10 OIL AT 48°C
4. MAX RATED SPEED: UP TO 3500 RPM
5. ⚠5 EXTERNAL INVOLUTE SPLINE DATA IN DECIMAL INCHES

9 510 290 015TAB

DO NOT SCALE
UNLESS OTHERWISE SPECIFIED: TOLERANCES PER DIN 7168m

LINEAR DIMENSION	TOL.
0- 6=	±0.1
6- 30=	±0.2
30- 120=	±0.3
120- 400=	±0.5
400-1000=	±0.8
ANGLES =	± 1°

METRIC
THIRD ANGLE PROJECTION

DRN D.M. 05-17-02
CKD D.N. 06-14-02
APPVD
REF. 9510290003
CAD-ORIGINAL Revisions thru CAD Only
REV. D
MATERIAL
DESCRIPTION
SCALE FULL
TITLE PUMP-GEAR, INSTALLATION
DWG. NO. 9 510 290 015TAB
SHEET 1 OF 1

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