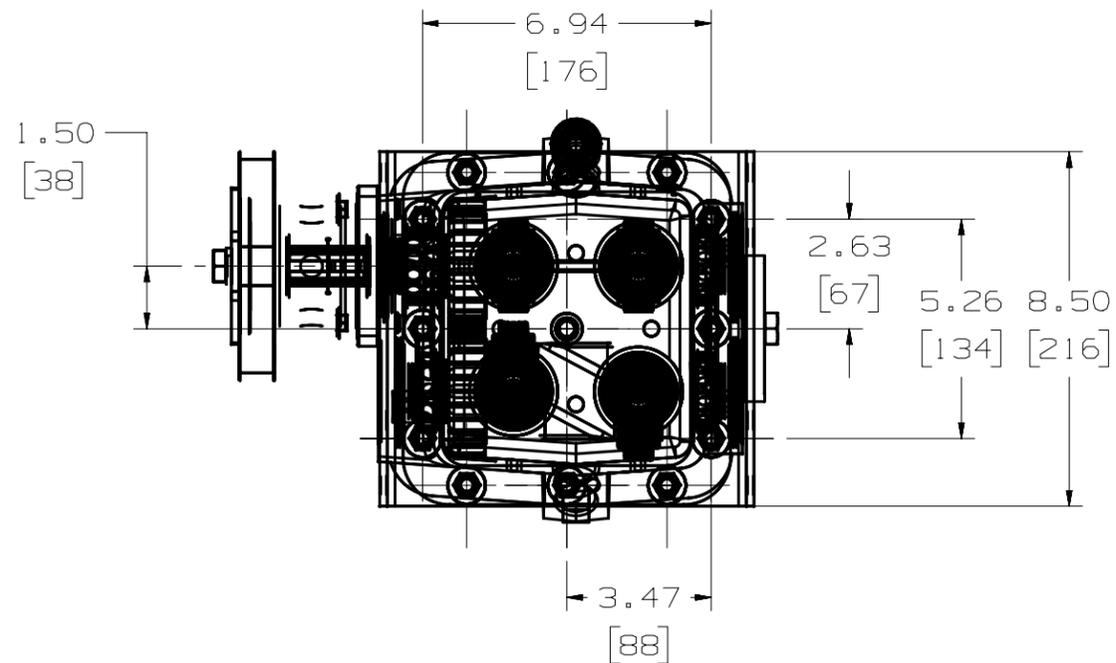
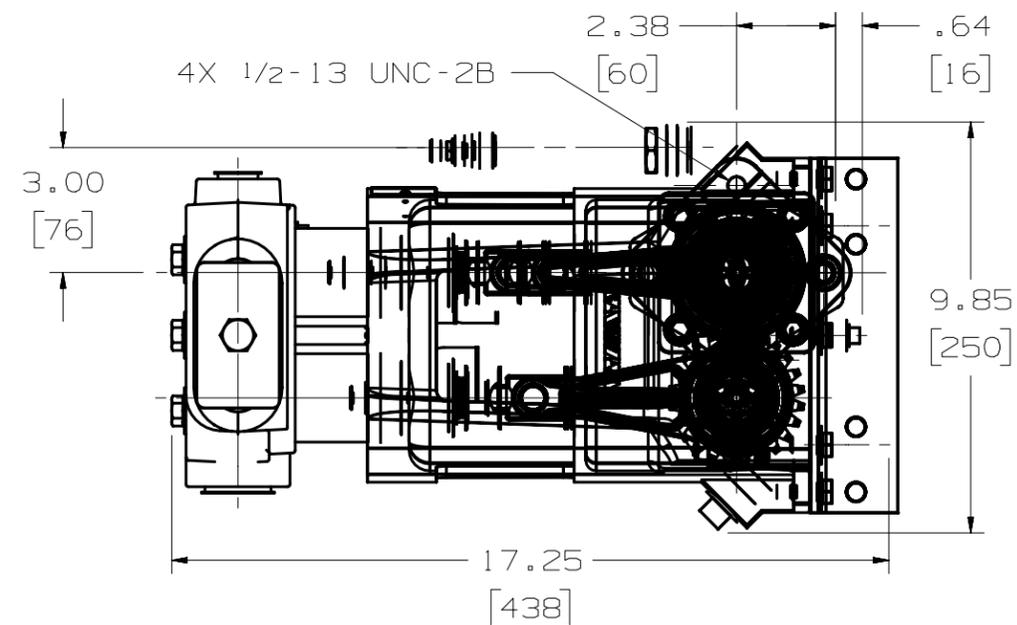
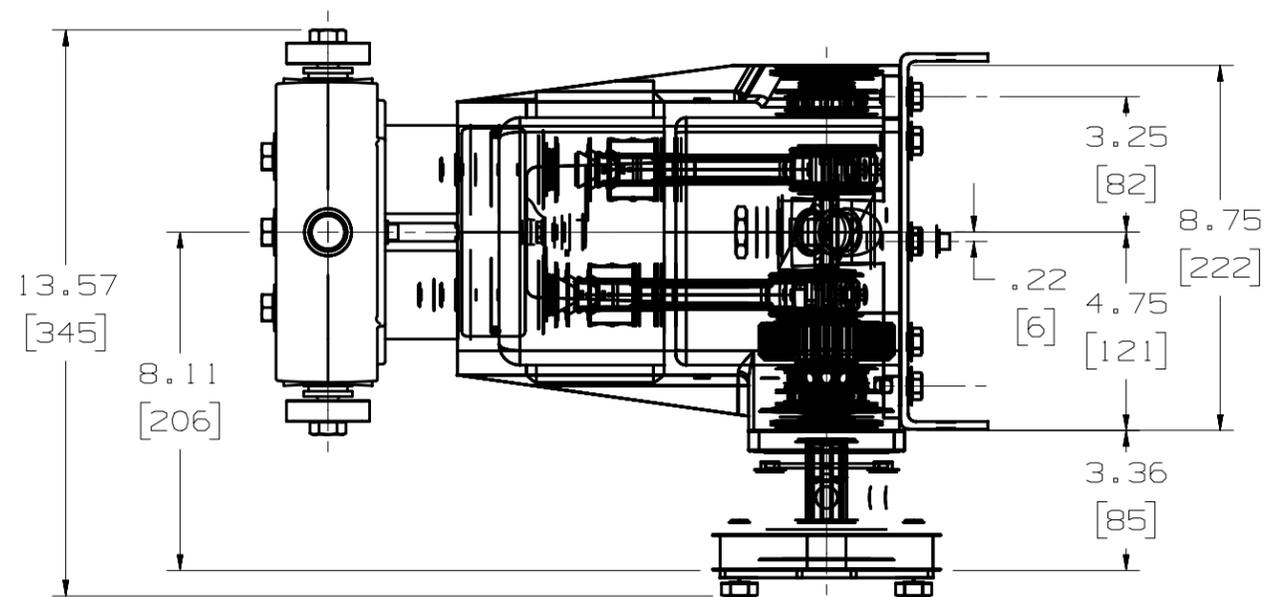
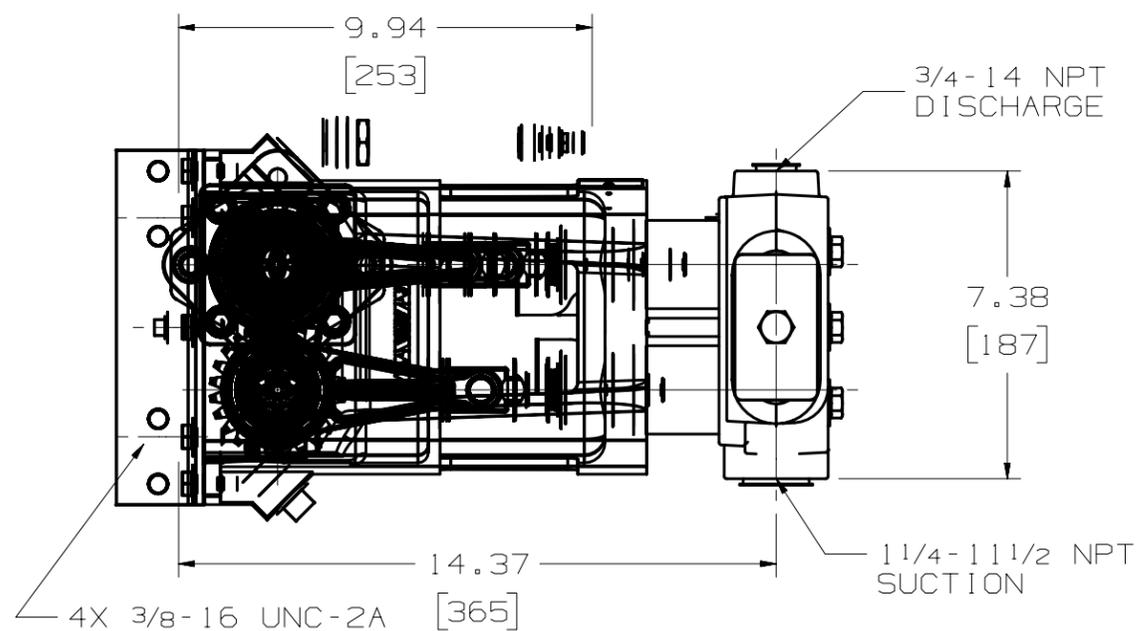


ITEM	DESCRIPTION	QTY
1	POWER END ASSY:	1
2	FLUID CYLINDER:	1
3	SEAT:	8
4	VALVE CAGE:	8
5	SPRING AND DISC ASSEMBLY:	8
6	CYLINDER:	4
7	PISTON CUP:	4
8	PISTON HOLDER:	4
9	CUP WASHER: A04	4
10	CAP SCREW: HEX HEAD, 5/16 X 1.50 L	4
11	O-RING: UNIFORM #015	4
12	UMBRELLA: F/E04	4
13	WASHER: UMBRELLA	4
14	GASKET: VALVE COVER	4
15	RING SEAL: CYLINDER	4
16	O-RING: UNIFORM #033	4
17	VALVE COVER:	4
18	O-RING: UNIFORM #213	12
19	VALVE COVER CLAMP:	2
20	CAP SCREW: HEX HEAD, 1/2 X 1.50 LG	2
21	PISTON PLUG: 1/4" NPT	1
22	BELLEVILLE SPRING WASHER: 7/16	4
23	CAP SCREW: HEX HEAD, 7/16 X 5.50 L	4
24	PIPE PLUG: SQ HEAD, 3/4 NPT	1
25	STREET ELBOW: 3/4 NPT X 45 DEG	1
26	BUSHING: HEX HEAD, 3/4 X 1/4	1
27	NIPPLE: 1/4 SCH 40, 1/4 NPT	1
28	REDUCER: 1/4 NPT X 1/8 NPT	1
29	LUBE VENT: 1/8-27 PTF	1
30	THREAD PROTECTOR: CAPPLUGS #T-12	1
31	CAPLUG: 17-S	1
32	NAMEPLATE:	1
33	SELF TAPPING SCREW:	2

PRIVATE AND CONFIDENTIAL THIS DOCUMENT AND ALL THE INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND EXCLUSIVE PROPERTY OF THE TECHNOLOGIES AND MAY NOT BE REPRODUCED, COPIED, DISCLOSED, OR USED IN ANY MANNER WITHOUT THE WRITTEN AUTHORIZATION OF THE TECHNOLOGIES. THIS DOCUMENT IS ACCEPTED PURSUANT TO AN AGREEMENT TO THE TECHNOLOGIES AND SHALL BE RETURNED TO THE TECHNOLOGIES UPON REQUEST. THIS DOCUMENT SHALL BE CONSIDERED THE TECHNOLOGIES' PROPERTY, AND THAT ANY REPRODUCTION OR DISSEMINATION OF THIS DOCUMENT WITHOUT THE WRITTEN AUTHORIZATION OF THE TECHNOLOGIES IS STRICTLY PROHIBITED. ALL DIMENSIONS ARE IN UNLESS OTHERWISE SPECIFIED.	UNLESS OTHERWISE SPECIFIED TOLERANCE: .X ± .001 .XX ± .0015 .XXX ± .0025 INCHES FRACTIONS DECIMALS ANGLES Holes shall be concentric within .010 (1.25X) T.I.R.	DESCRIPTION: PUMP ASSEMBLY: E0413 HD W/1-1/4 NPT X 3/4 NPT FLUID END, DISC VALVE ASSEMBLY, W/ HYDRAULIC MOTOR MOUNTING FLANGE	DRAWN BY: KUNISHIGE, SCOTT CHECKED BY: KUNISHIGE, SCOTT DESIGN REVIEW: GOODELL, GENE MANUFACTURING PRODUCT: CRUZ, GEORGE APPROVED BY: EVANS, AARON	DATE: 11-DEC-2007 11-DEC-2007 09-JAN-2008 06-JAN-2008 11-FEB-2008	PART NO.: 5014612 REV: A 00500000694 COPYRIGHT © THE TECHNOLOGIES
	DO NOT SCALE THIS DRAWING ALL DIMENSIONS ARE IN INCHES (MM) BREAK SHARP EDGES .015 (1.38) MAXIMUM INSIDE CORNER RADIUS .001 (25) MAXIMUM THREADS CONFORM TO FEDERAL STANDARD H-28 TAPPED THROUGHS CONFORM TO API 6A BOLT HOLES MUST STRADDLE COMMON CENTERLINE	TOLERANCE: .X ± .001 .XX ± .0015 .XXX ± .0025 INCHES FRACTIONS DECIMALS ANGLES Holes shall be concentric within .010 (1.25X) T.I.R.	DESCRIPTION: PUMP ASSEMBLY: E0413 HD W/1-1/4 NPT X 3/4 NPT FLUID END, DISC VALVE ASSEMBLY, W/ HYDRAULIC MOTOR MOUNTING FLANGE	DRAWN BY: KUNISHIGE, SCOTT CHECKED BY: KUNISHIGE, SCOTT DESIGN REVIEW: GOODELL, GENE MANUFACTURING PRODUCT: CRUZ, GEORGE APPROVED BY: EVANS, AARON	DATE: 11-DEC-2007 11-DEC-2007 09-JAN-2008 06-JAN-2008 11-FEB-2008



MOUNTING DETAIL



PRIVATE AND CONFIDENTIAL

THIS DOCUMENT AND ALL THE INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND EXCLUSIVE PROPERTY OF FMC TECHNOLOGIES AND MAY NOT BE REPRODUCED, USED, DISCLOSED, OR MADE PUBLIC IN ANY MANNER PRIOR TO EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES. THIS DOCUMENT IS ACCEPTED PURSUANT TO AGREEMENT TO THE FOREGOING, AND MUST BE RETURNED UPON DEMAND.

MANUFACTURER AGREES THAT ARTICLES MADE IN ACCORDANCE WITH THIS DOCUMENT SHALL BE CONSIDERED FMC TECHNOLOGIES' DESIGN, AND THAT IDENTICAL ARTICLES OR PARTS THEREOF SHALL NOT BE MANUFACTURED FOR THE USE OR SALE BY MANUFACTURER OR ANY OTHER PERSON OR ENTITY WITHOUT PRIOR EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES.

ENGINEERING
DIMENSIONAL
OUTLINE

DESCRIPTION

PUMP ASSEMBLY; E0413 HD W/1-1/4 NPT X 3/4 NPT FLUID END, PISTON, DISC VALVE ASSEMBLIES, W/ HYDRAULIC MOTOR MOUNTING FLANGE

DRAWN BY:

KUNISHIGE, SCOTT

DATE:

11-DEC-2007

DRAFTING CHECK:

KUNISHIGE, SCOTT

DATE:

11-DEC-2007

DESIGN REVIEW:

GOODELL, GENE

DATE:

09-JAN-2008

MANUFACTURING APPROVAL:

CRUZ, GEORGE

DATE:

06-JAN-2008

APPROVED BY:

EVANS, AARON

DATE:

11-FEB-2008

FMCTechnologies

LATEST ECN NO. 5014612 REV. A

DRAWING NUMBER DU500000694

COPYRIGHT FMC TECHNOLOGIES