

- P553319
- P502383
- 3266811
- 1219615
- 1241364
- 5257807
- 1282557
- 1219614
- 1255887
- 1219610
- A91684
- 1279148
- 1269388
- 1101339
- 1177841
- 3264075
- 5257986
- 1285170
- P505116
- 1284516
- 1102262
- 1100064
- P519852
- 5277981
- 1187413

ITEM	DESCRIPTION	QTY
1	POWER END ASSEMBLY:	1
2	FLUID CYLINDER:	1
3	SPRING AND DISC ASSEMBLY:	4
4	SEAT:	4
5	CYLINDER:	2
6	PISTON CUP:	2
7	PISTON HOLDER:	2
8	VALVE COVER:	2
9	VALVE COVER CLAMP:	1
10	VALVE CAGE:	4
11	GASKET: VALVE COVER	2
12	UMBRELLA:	2
13	WASHER: UMBRELLA	2
14	O-RING: UNIFORM #015	2
15	O-RING: UNIFORM #033	2
16	O-RING: UNIFORM #213	6
17	CUP WASHER: A04	2
18	RING SEAL: CYLINDER	2
19	HYDRAULIC MOTOR: EATON SERIES 2000	1
20	CAP SCREW HEX HEAD: 5/16 X 1.50 LG	2
21	CAP SCREW HEX HEAD: 3/8 X 5.00 LG	3
22	CAP SCREW HEX HEAD: 1/2 X 1.50 LG	1
23	CAP SCREW: HEX SOC HEAD, 1/2 X 1.50 LG	2
24	NAMEPLATE:	1
25	SELF TAPPING SCREW:	2

**Brown Brothers
Engineers Ltd**
Member of AxFlow Group
0508 4 BBENG
www.brownbros.co.nz

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UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
ALL DIMENSIONS ARE TO SCALE THIS DRAWING
MAXIMUM SURFACE FINISH: .015 (0.381) MAXIMUM
INSIDE SURFACE FINISH: .030 (0.762) MAXIMUM
ALL SURFACE TEXTURES: # 250 MICROMETERS
(6.3 MICROMETERS)
ALL COAXIAL DIA'S: .010 TIR TO SINGLE AZIS
DIM AND 10 PER ASME Y14.5-2009

TOLERANCE

.Z	± .010 (0.254)
.XX	± .015 (0.381)
.XXX	± .005 (0.127)
ANGLE	± 0° 30'

DESCRIPTION: PUMP ASSEMBLY: A0413 LH, W/1 SAE TUBING X 5/8 SAE TUBING FLUID END, PISTON CUP DISC VALVE ASSEMBLIES, MOUNTING FEET, W/2000 SERIES HYDRAULIC MOTOR

DESIGNED BY: KOLVERTON, JARROD	DATE: 18-MAR-2016
DRAFTING CHECKED: KOLVERTON, JARROD	DATE: 18-MAR-2016
DESIGN REVIEWER: GILL, CODY	DATE: 10-NOV-2016
MANUFACTURING APPROVAL:	DATE:
APPROVED BY: KOWALSKI, CHRISTOPHER	DATE: 10-NOV-2016

SHEET SIZE: D	LATEST EGN NUMBER: 5039707
DRAWING NUMBER: DUS00028308	SHEET: 1/2

FMC Technologies	
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1 2 3 4 5 6 7 8 9 10 11 12

A

B

C

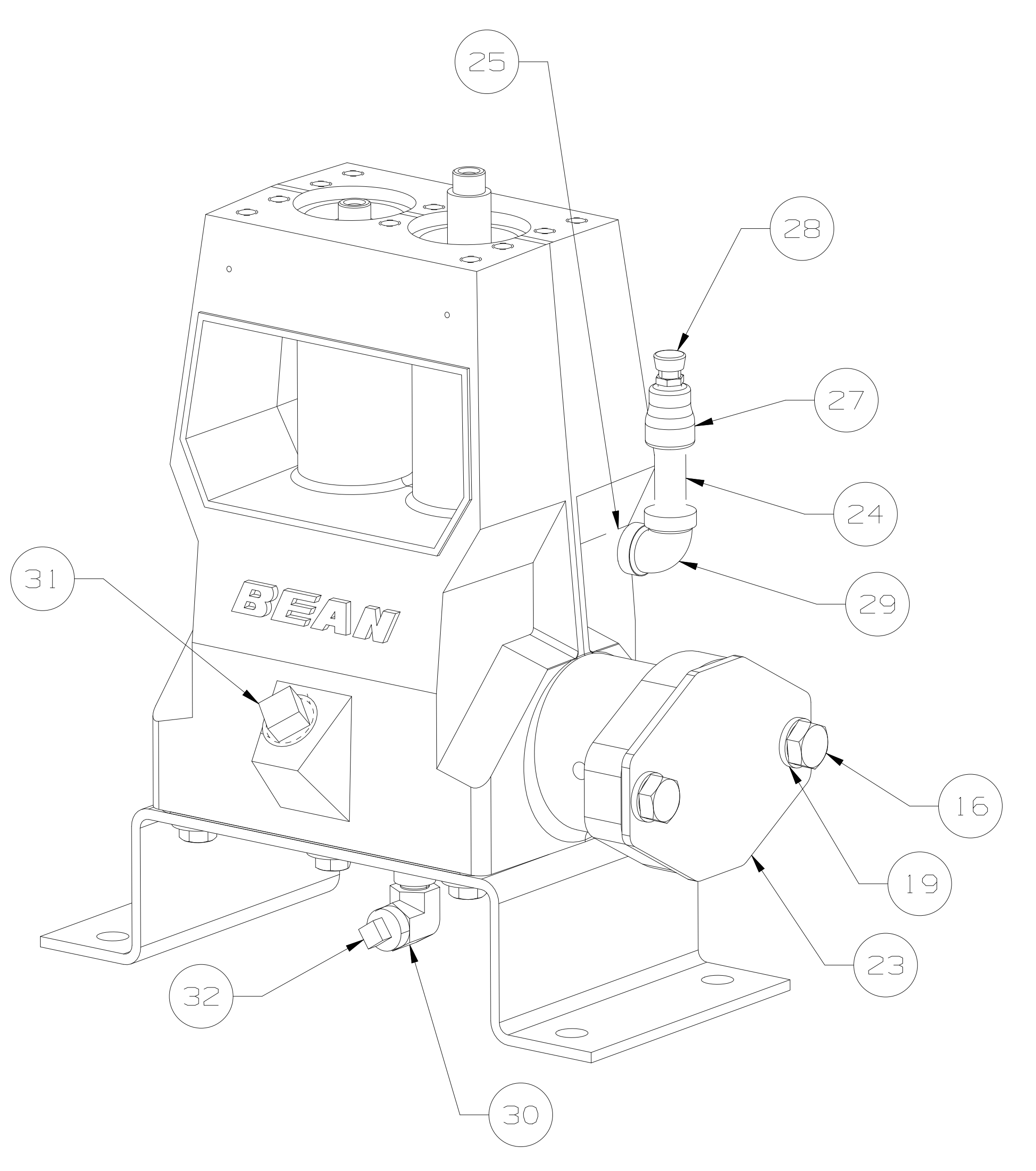
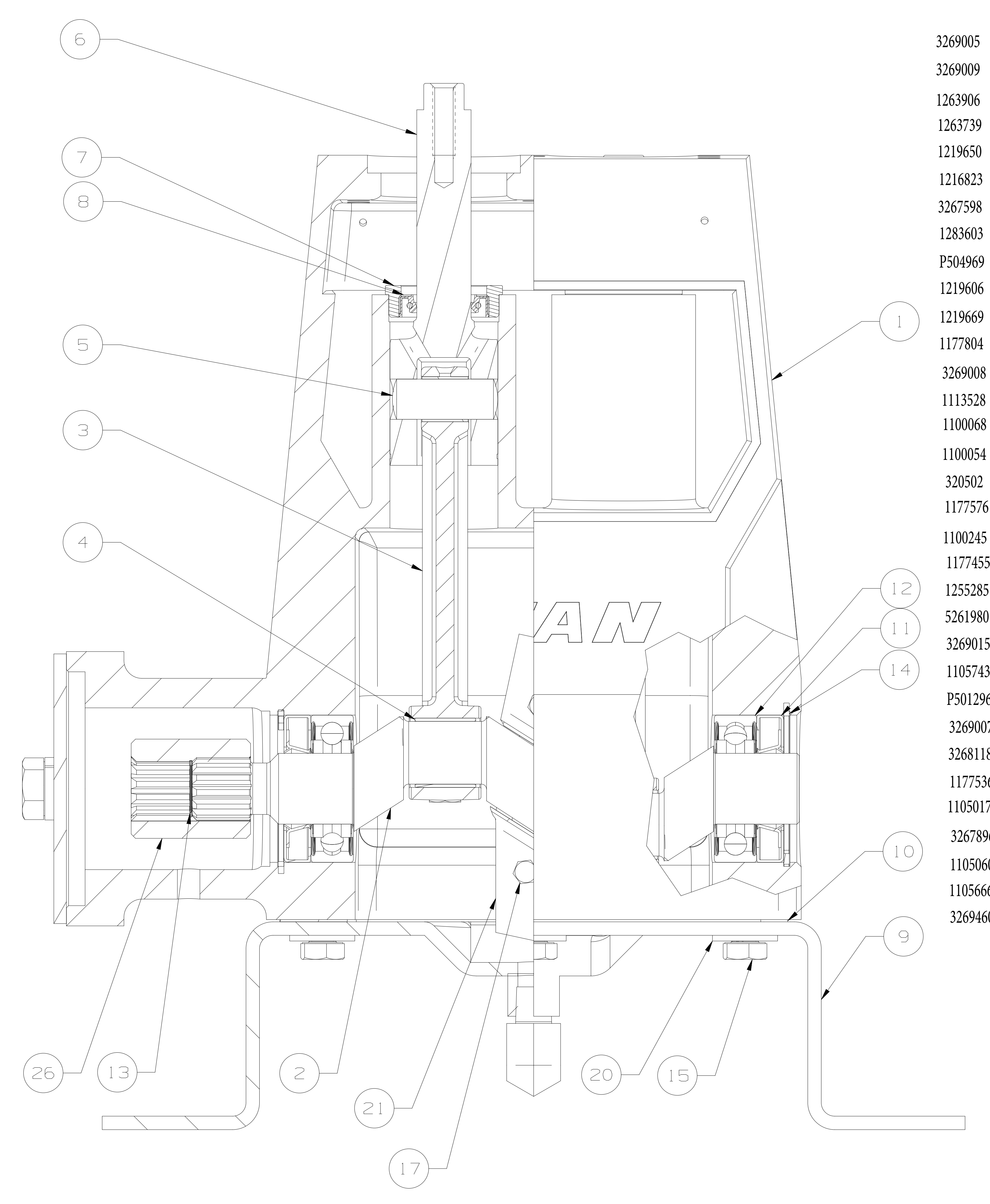
D

E

F

G

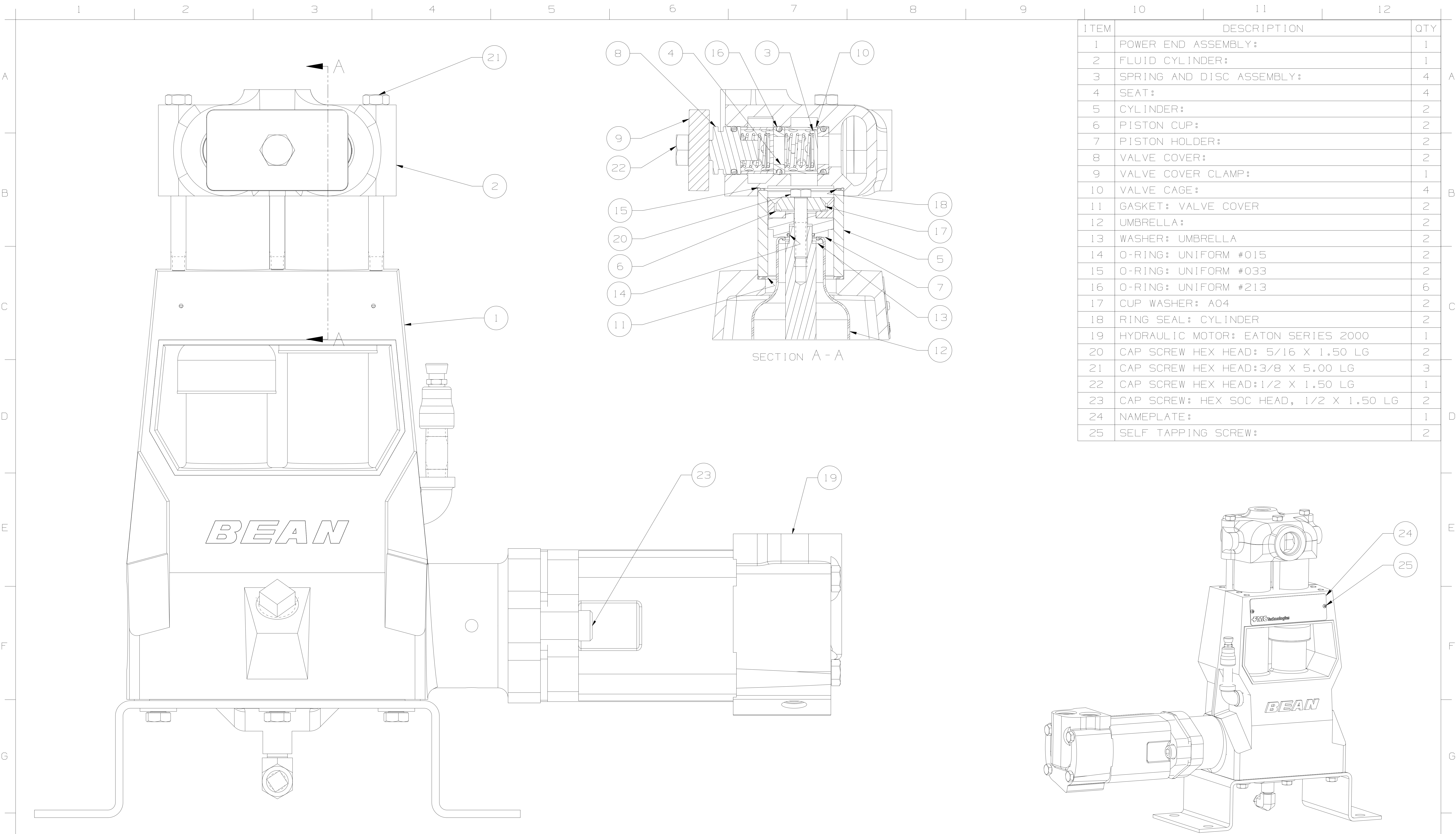
H



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- 3269009
- 1263906
- 1263739
- 1219650
- 1216823
- 3267598
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- 1219606
- 1219669
- 1177804
- 3269008
- 1113528
- 1100068
- 1100054
- 320502
- 1177576
- 1100245
- 1177455
- 1255285
- 5261980
- 3269015
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- 3267896
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- 1105666
- 3269460

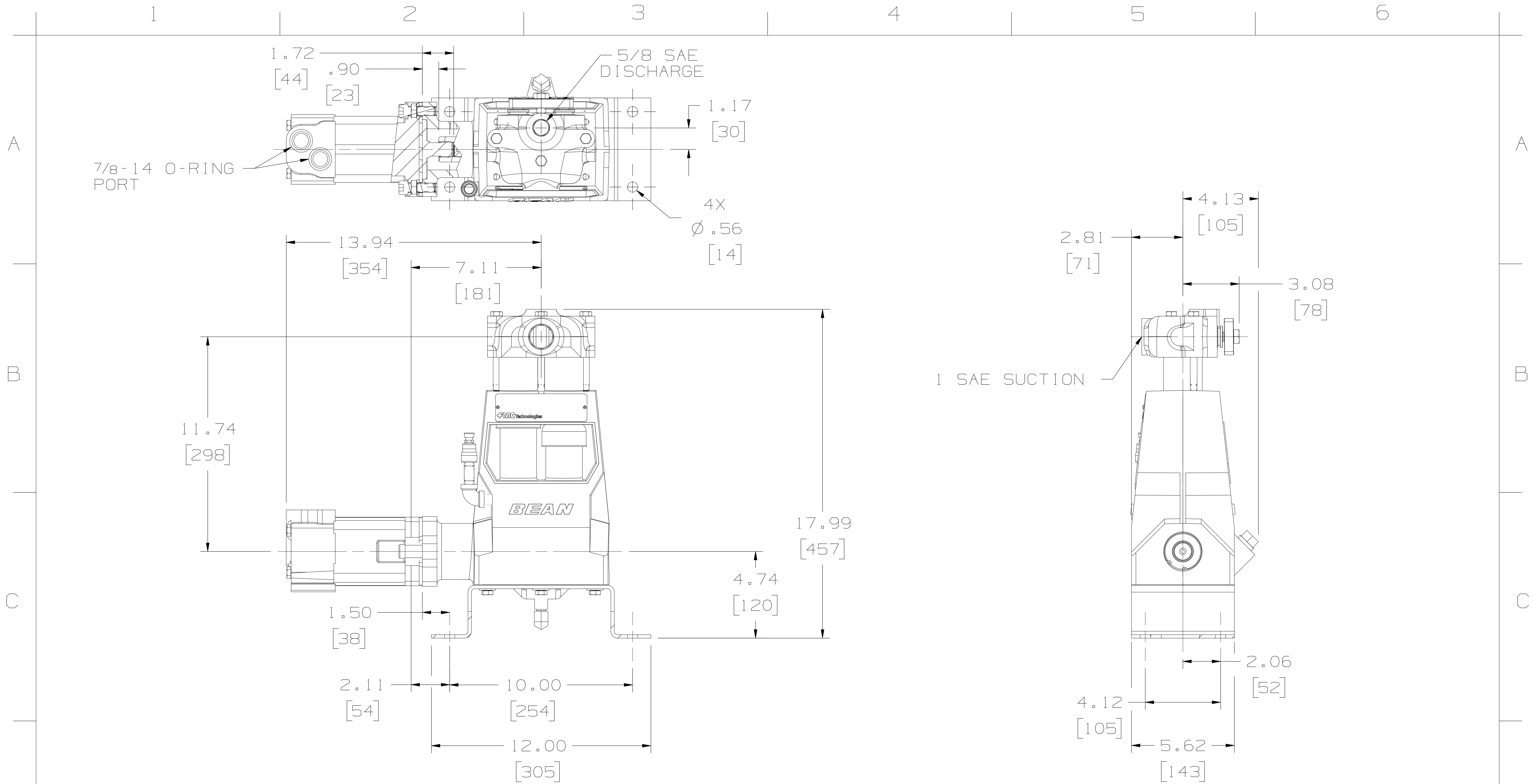
ITEM	DESCRIPTION	QTY
1	POWER FRAME:	1
2	CRANK:	1
3	CONNECTING ROD:	2
4	ROD BEARING: HALF SHELL	4
5	WRIST PIN:	2
6	CROSSHEAD:	2
7	SEAL HOLDER:	2
8	SEAL: PONY ROD	2
9	BACK COVER:	1
10	GASKET: BACK COVER	1
11	SHAFT SEAL:	2
12	BALL BEARING:	2
13	RETAINER RING: WH-75	1
14	RETAINING RING:	2
15	CAP SCREW: HEX HEAD, 3/8 X .75 LG	6
16	CAP SCREW: HEX HEAD, 1/2 X 1.00 LG	2
17	CAP SCREW: HEX HD #10 X .75 LG	2
18	HEX NUT: #10 (NOT SHOWN)	2
19	LOCK WASHER: REGULAR, 1/2	2
20	WASHER: BELLEVILLE, 3/8	6
21	OIL SLINGER: RH	1
22	BOLTING STRIP: (NOT SHOWN)	1
23	PROTECTIVE COVER:	1
24	NIPPLE: 1/4 S40, 1/4 NPT X 2.00LG	1
25	NIPPLE: 1/4 S40, 1/4 NPT X 1.25LG	1
26	COUPLING:	1
27	REDUCER: 1/4 NPT X 1/8 NPT	1
28	LUBE VENT: 1/8 PTF	1
29	ELBOW: 1/4 FEMALE NPT	1
30	STREET ELBOW; 1/4 NPT	1
31	PIPE PLUG: SQ HEAD, 3/4 NPT	1
32	PIPE PLUG: 1/4 NPT	1
33	PIPE PLUG: SQ HEAD, 1/8 NPT (NOT SHOWN)	1

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				<p>DRAFTING CHECK:</p> <p>WOLVERTON, JARROD</p>	<p>DATE:</p> <p>04-OCT-2016</p>	
<p>APPROVED BY:</p> <p>MCCLAINE, MATHEW</p>	<p>DATE:</p> <p>01-NOV-2016</p>	<p>LATEST EGN NUMBER</p> <p>5040913</p>	<p>DRAWING NUMBER</p> <p>DUS00001878</p>	<p>REV.</p> <p>D</p>	<p>SHEET</p> <p>1/1</p>	<p>COPYRIGHT FMC TECHNOLOGIES</p>



ITEM	DESCRIPTION	QTY
1	POWER END ASSEMBLY:	1
2	FLUID CYLINDER:	1
3	SPRING AND DISC ASSEMBLY:	4
4	SEAT:	4
5	CYLINDER:	2
6	PISTON CUP:	2
7	PISTON HOLDER:	2
8	VALVE COVER:	2
9	VALVE COVER CLAMP:	1
10	VALVE CAGE:	4
11	GASKET: VALVE COVER	2
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14	O-RING: UNIFORM #015	2
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25	SELF TAPPING SCREW:	2

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				DRAFTING CHECKED: WOLVERTON, JARROD	DATE: 18-MAR-2016	
				DESIGN REVIEW: GILL, CODY	DATE: 10-NOV-2016	
				MANUFACTURING APPROVAL: 	DATE: 	
APPROVED BY: KOWALSKI, CHRISTOPHER	DATE: 10-NOV-2016	SHEET SIZE: D	LATEST ECN NUMBER: 5039707	REV: B	DRAWING NUMBER: DUS00028308	SHEET: 1/2



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ENGINEERING
DIMENSIONAL
OUTLINE

DESCRIPTION

PUMP ASSEMBLY; A0413 LH,
W/1 SAE TUBING X 5/8 SAE
TUBING FLUID END, PISTON
CUP DISC VALVE
ASSEMBLIES, MOUNTING
FEET, W/2000 SERIES
HYDRAULIC MOTOR

DRAWN BY:

WOLVERTON, JARROD

DATE:

18-MAR-2016

DRAFTING CHECK:

WOLVERTON, JARROD

DATE:

18-MAR-2016

DESIGN REVIEW:

GILL, CODY

DATE:

10-NOV-2016

MANUFACTURING APPROVAL:

DATE:

APPROVED BY:

KOWALSKI, CHRISTOPHER

DATE:

10-NOV-2016

FMC Technologies

SHEET SIZE

B

ECN NUMBER

5039707

REV.

B

DRAWING NUMBER

DU500028308

SHEET

2/2

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