



Meter Drawing Table of Contents

8C175 LMMA

DWG #C049844-000

8C/11C/15C

DWG #D054516-000

DWG #D054430-000

DWG #D057415-000

DWG #D056701-000 IMC/W2

2M/3M/5M

DWG #D054517-000

DWG #D054431-000

DWG #D056900-000

DWG #D056702-000 IMC/W2

7M/11M/16M

DWG #D054518-000

DWG #D054432-000

DWG #D056901-000

DWG #D056487-000

DWG #D056703-000 IMC/W2

23M/232

DWG #D057050-000

DWG #D057051-000

DWG #D057745-000

DWG #D057850-000 IMC/W2

23M/38M/56M

DWG #D054750-001

DWG #D054433-001

DWG #D057701-000

DWG #D057732-000

102M125

DWG #D048878-000 CTR/FM

DWG #D048879-000 CD/FM

DWG #D059628-000 IMC/W2

1M/3M 300

DWG #D054722-000

DWG #D054439-000

DWG #D059147-000 IMC/W2

1M/3M 740/1480

DWG #D054757-000

DWG #D054434-000

DWG #D057373-000

DWG #059145-000 IMC/W2

5M/7M 1480

DWG #D056135-000

DWG #D056136-000

DWG #D057442-000

DWG #D059146-000 IMC/W2

11M/1480

DWG #D059329-000

DWG #D059535-000

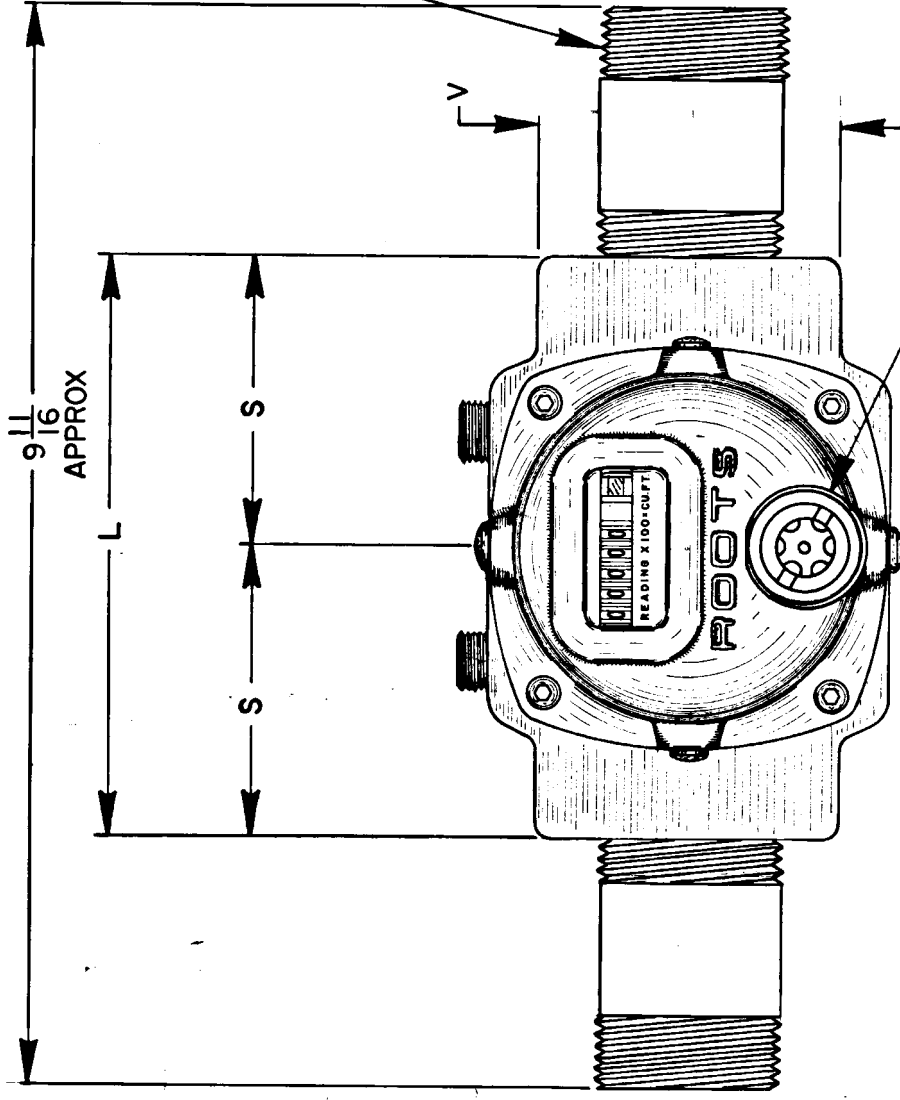
DWG #D059374-000 IMC/W2

METER W/COUNTER

8C

ENGLISH

DIMENSIONS IN INCHES										APPROX. OIL CAPACITY			APPROX. WEIGHT
MODEL	A	D	L	M	N	R	S	V	GEAR END (SIDE INLET)	GEAR END (TOP INLET)	CTR END (SIDE OR TOP)		
8C	8 9/16	3 5/16	4 3/4	3 5/8	4 15/16	1 21/32	2 3/8	2 1/2	.17 fl. oz. (5ml)	.54 fl. oz. (16ml)	.41 fl. oz. (12ml)	6 lbs.	

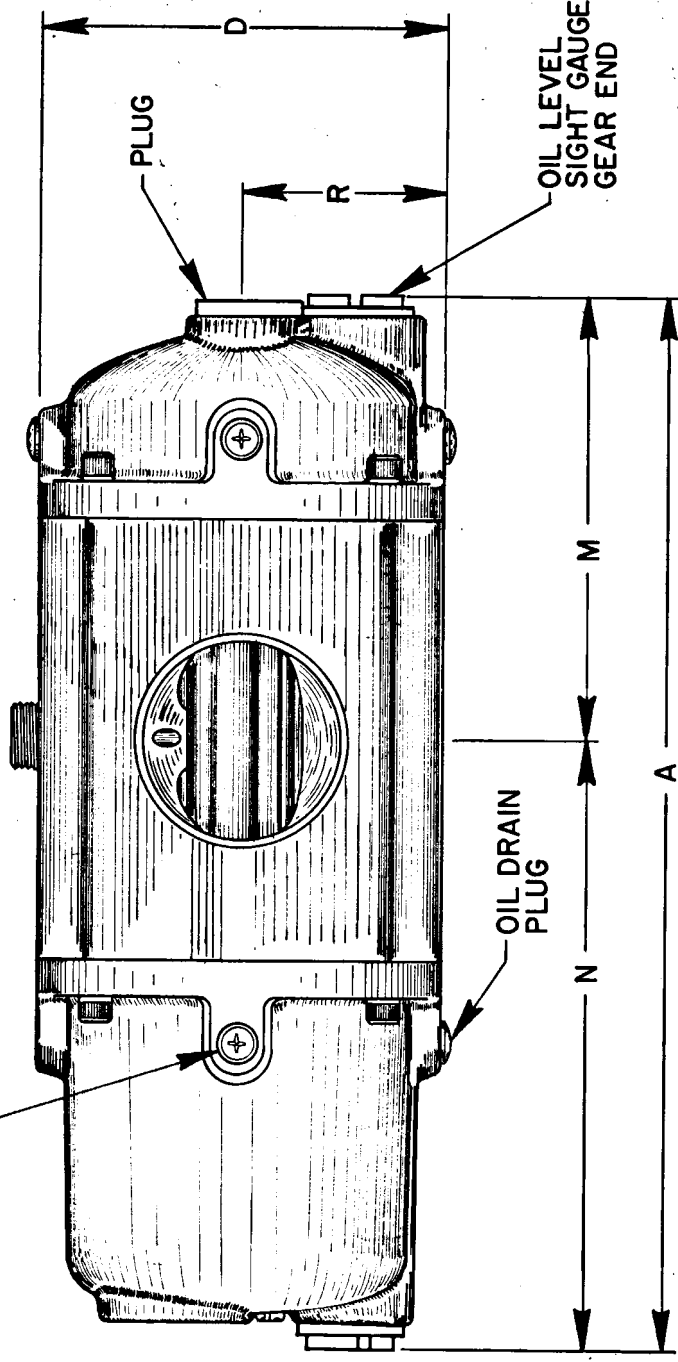


SHOWN IN SIDE INLET POSITION
FOR TOP INLET ROTATE COUNTER END
ASSEMBLY 90° COUNTERCLOCKWISE
AND EXCHANGE PLUG AND OIL LEVEL
SIGHT IN GEAR END

1/2 - 11 1/2 NPT

OIL FILL PLUG

OIL LEVEL SIGHT GAUGE COUNTER END



CUSTOMER _____

CUST. ORDER NO. _____ OUR ORDER NO. _____

DATE _____ BY _____

DRESSER MEASUREMENT DIVISION

DRESSER INDUSTRIES, INC.

HOUSTON, TEXAS, U.S.A.

8/86

PRINTED IN U.S.A.

C049844-000

REV	DATE	BY	APP
1	4-16-78	5933	
2	7-17-81	6116	
3	12-16-82	6309	
4	2-6-84	6448	
5	2-2-86	6589	
6	8-24-86	6625	

DO NOT SCALE PRINTS
REMOVE BURRS
BREAK ALL SHARP EDGES
TOLERANCES
UNLESS OTHERWISE SPECIFIED
DIN 3.2-008 PREL./04 AND 3307

TITLE		DIMENSIONAL ASSEMBLY	
8C		METER W/ COUNTER	
ENGLISH		ENGLISH	
DRAWN BY	DESIGNED BY	DATE	DRAWING NUMBER
J. ALSON	J. ALSON	1/21	C049844-000
1/21	7-19-78		

DRESSER MEASUREMENT DIVISION
DRESSER INDUSTRIES, INC.
HOUSTON, TEXAS, U.S.A.

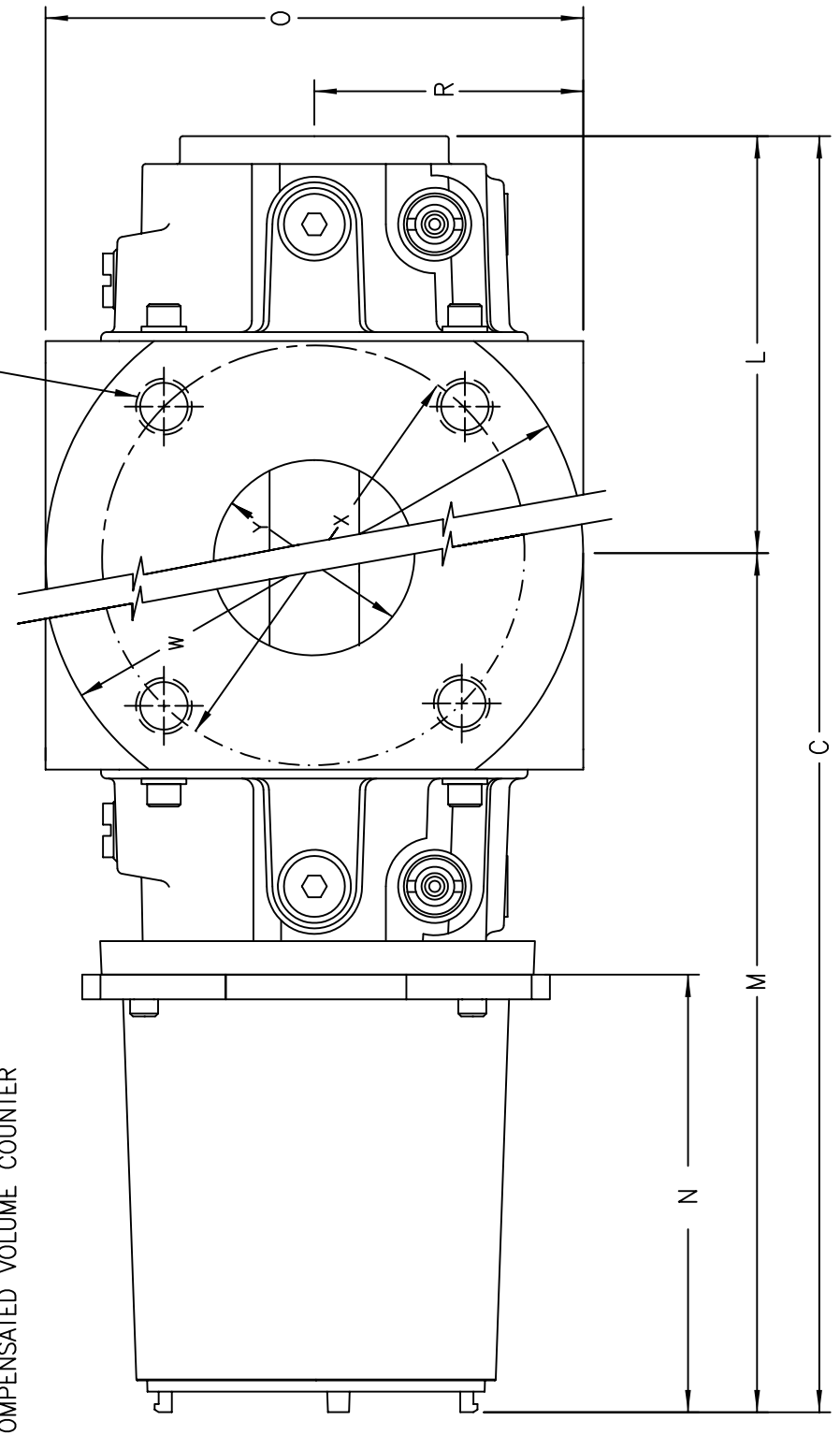
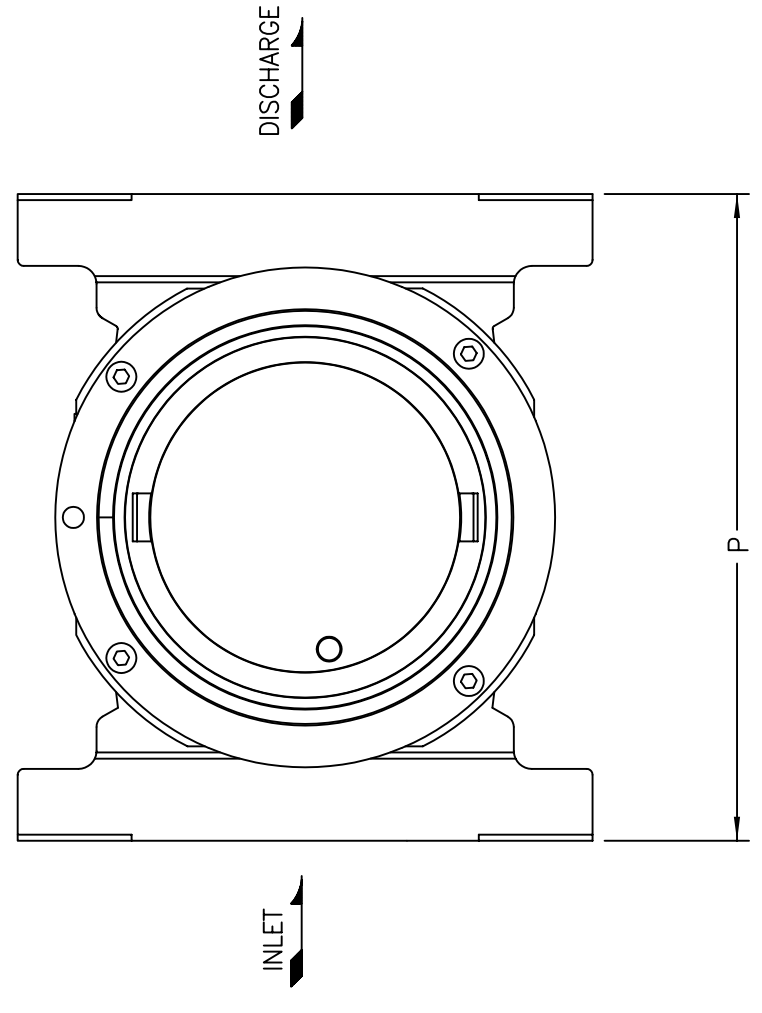
MODEL	CAPACITY		DIMENSIONS													APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE
	UNIT	C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET	TOP INLET					
8C	800 cfh	13 15/16	4 11/16	9 1/4	4 7/8	6	6 3/4	3	6	4 3/4	2 1/4	4	0.8 oz	3.0 oz					
	22,6 m ³ /h	354	119	235	124	153	172	76,5	153	120,65	57,5	4	23.65 ml	88.72 ml					
11C	1100 cfh	14 1/2	5	9 1/2	4 7/8	6	6 3/4	3	6	4 3/4	2 1/4	4	0.8 oz	3.0 oz					
	31 m ³ /h	368	127	241	124	153	172	76,5	153	120,65	57,5	4	23.65 ml	88.72 ml					
15C	1500 cfh	15 7/16	5 3/8	10	4 7/8	6	6 3/4	3	6	4 3/4	2 1/4	4	0.8 oz	3.0 oz					
	42,5 m ³ /h	392	137	255	124	153	172	76,5	153	120,65	57,5	4	23.65 ml	88.72 ml					
G16	882 cfh	13 15/16	4 11/16	9 1/4	4 7/8	6	6 3/4	3	6	4 3/4	2 1/4	4	0.8 oz	3.0 oz					
	25 m ³ /h	354	119	235	124	153	172	76,5	153	120,65	57,5	4	23.65 ml	88.72 ml					
G25	1412 cfh	15 7/16	5 3/8	10	4 7/8	6	6 3/4	3	6	4 3/4	2 1/4	4	0.8 oz	3.0 oz					
	40 m ³ /h	392	137	255	124	153	172	76,5	153	120,65	57,5	4	23.65 ml	88.72 ml					

SEE METER NAMEPLATE OR CERTIFICATION STAMP

SERIES B3
 ROOTS® METER
 8C(G16)/11C/15C(G25)
 WITH CTR* OR TC** UNIT
 IMPERIAL OR METRIC

*CTR=DISPLACED VOLUME COUNTER
 **TC=TEMPERATURE COMPENSATED VOLUME COUNTER

5/8-11 UNC-2B X 15/16 FULL THREAD DEPTH
 Z = NO. OF HOLES

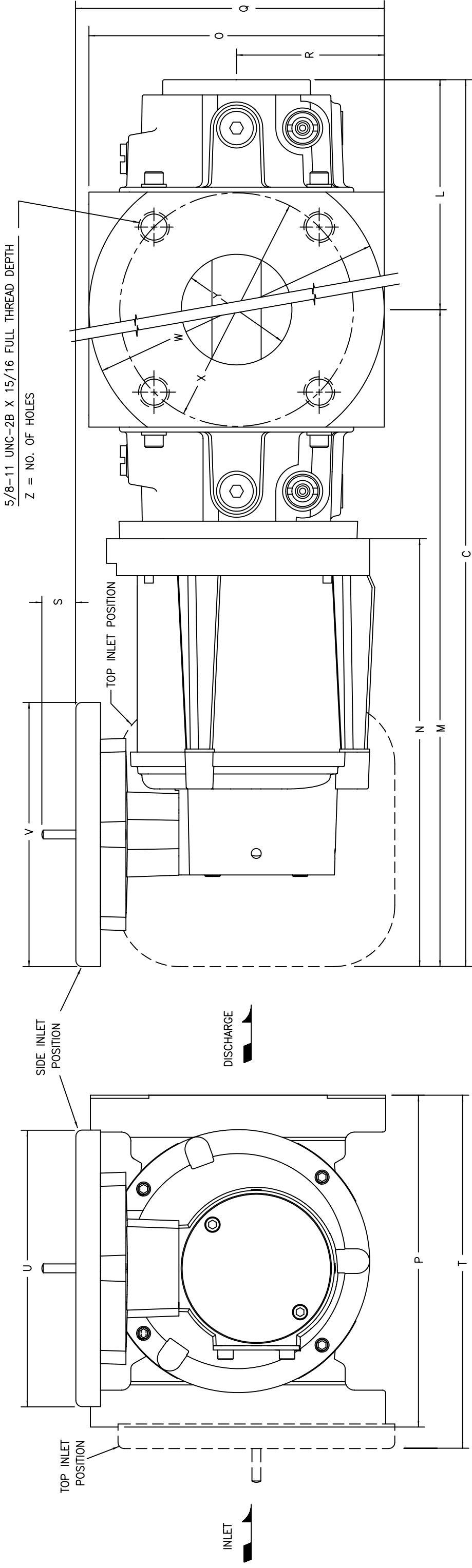


REV. ECO. NO. DATE	A	7844	10AUL00
	B	7844	14AUL03
	C	8273	14AUL03
ENGINEERING CHANGES			
MATERIAL			
FIG. NUMBER			
PATTERN NUMBER			
FINISH			
ROOTS METERS & INSTRUMENTS			
DMD-Roots DIVISION			
PRESSURE EQUIPMENT GROUP, INC.			
FOUNTAIN, TEXAS, USA			
DO NOT SCALE PRINTS.			
REWORK ALL SHARP EDGES.			
TOLERANCES UNLESS OTHERWISE			
NOTED: ±.005			
FRAC. ±1/64			
ANG. ±30'			
DESIGNED			
DRAWN			
CHECKED			
DATE			
APPROVED			
DATE			
RELEASED			
NTS			
03JUL97			
(29JUL97)			
D054516-000			
08/2003			
D054516-000			
TITLE			
DIMENSIONAL ASSEMBLY			
ROOTS® METER SERIES B-3			
8C/11C/15C/G16/G25 C/TC			

MODEL	CAPACITY		DIMENSIONS																				APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE
	UNIT	C	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	SIDE INLET	TOP INLET							
8C	800 cfh	IN 17 9/16	4 7/16	13 1/8	8 11/16	6	6 3/4	6 9/32	3	11/16	7 3/16	5 5/8	5 3/8	6	4 3/4	2 1/4	4	0.8 oz.	3 oz.	21 lbs	SEE METER NAMEPLATE OR CERTIFICATION STAMP					
	22,6 m ³ /h	mm 446	113	333	221	153	172	160	76,5	17,5	183	143	137	153	120,65	57,5	4	24 ml.	89 ml.	9,5 kg						
11C	1100 cfh	IN 18 1/8	4 11/16	13 3/8	8 11/16	6	6 3/4	6 9/32	3	11/16	7 3/16	5 5/8	5 3/8	6	4 3/4	2 1/4	4	0.8 oz.	3 oz.	22 lbs						
	31 m ³ /h	mm 460	120	340	221	153	172	160	76,5	17,5	183	143	137	153	120,65	57,5	4	24 ml.	89 ml.	9,9 kg						
15C	1500 cfh	IN 19 1/16	5 3/16	13 7/8	8 11/16	6	6 3/4	6 9/32	3	11/16	7 3/16	5 5/8	5 3/8	6	4 3/4	2 1/4	4	0.8 oz.	3 oz.	24 lbs						
	42,5 m ³ /h	mm 485	132	353	221	153	172	160	76,5	17,5	183	143	137	153	120,65	57,5	4	24 ml.	89 ml.	10,9 kg						
G16	882 cfh	IN 17 9/16	4 7/16	13 1/8	8 11/16	6	6 3/4	6 9/32	3	11/16	7 3/16	5 5/8	5 3/8	6	4 3/4	2 1/4	4	0.8 oz.	3 oz.	21 lbs						
	25 m ³ /h	mm 446	113	333	221	153	172	160	76,5	17,5	183	143	137	153	120,65	57,5	4	24 ml.	89 ml.	9,5 kg						
G25	1412 cfh	IN 19 1/16	5 3/16	13 7/8	8 11/16	6	6 3/4	6 9/32	3	11/16	7 3/16	5 5/8	5 3/8	6	4 3/4	2 1/4	4	0.8 oz.	3 oz.	24 lbs						
	40 m ³ /h	mm 485	132	353	221	153	172	160	76,5	17,5	183	143	137	153	120,65	57,5	4	24 ml.	89 ml.	10,9 kg						

SERIES B3
ROOTS® METER
8C(G16)11C/15C(G25)
WITH CD*/TD** UNIT
IMPERIAL OR METRIC

*CD=DISPLACED VOLUME COUNTER WITH INSTRUMENT DRIVE
**TD=TEMPERATURE COMPENSATED VOLUME COUNTER WITH INSTRUMENT DRIVE



09/2000 D054430-000

REV.	ECO. NO.	DATE	ENGINEERING CHANGES
B	7844	10JUL00	
A	7801	13MAY98	

MATERIAL	
ITEM NUMBER	
PATTERN NUMBER	
FINISH	

DO NOT SCALE PRINTS. BREAK ALL SHARP EDGES. TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONAL DECIMALS ±0.005 DECIMALS ±0.005 ANGLES ±1/4°	ROOTS METERS & INSTRUMENTS DMD-Roots DIVISION PRECISION METER WORKS, INC. HOUSTON, TEXAS, USA	APPROVED DATE 23MAY97 SCALE 1/1	ISSUED BY DATE 23MAY97 SCALE 1/1	DESIGNED BY DATE 23MAY97 SCALE 1/1	DRIVING NUMBER D054430-000
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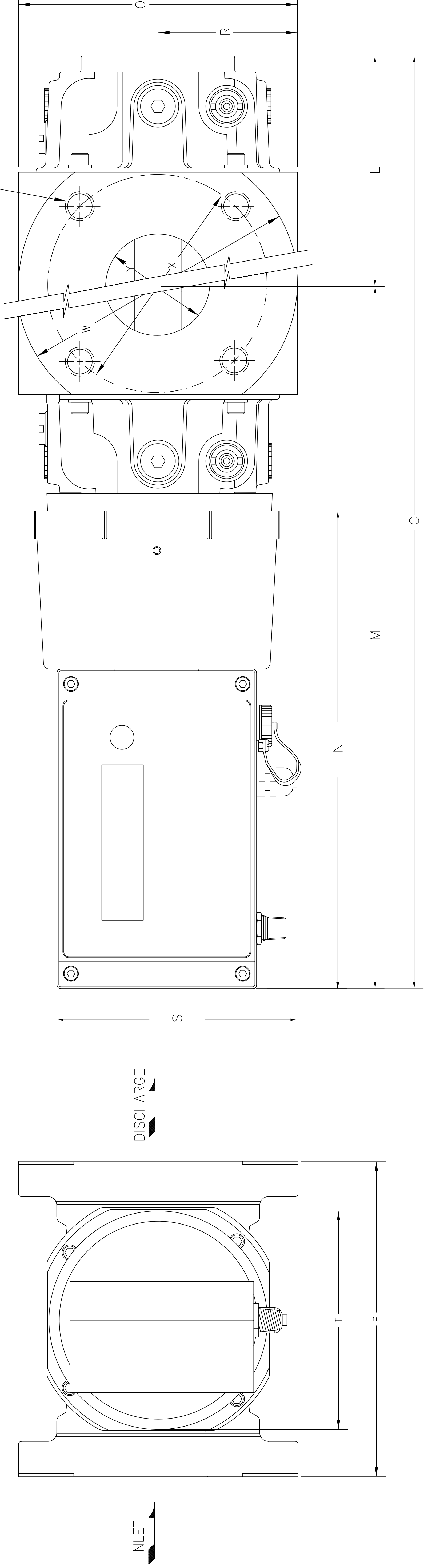
TITLE	DIMENSIONAL ASSEMBLY
ROOTS® METER	8C/11C/15C/G16/G25 CD/TD
SERIES B3	

MODEL	DIMENSIONS												APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE		
	CAPACITY	UNIT	C	L	M	N	O	P	R	S	T	W	X	Y			SIDE INLET	TOP INLET
8C G16	800 cfh	IN	19 1/4	4 11/16	14 9/16	9 1/2	6	6 3/4	3	4 11/16	4 3/4	6	4 3/4	1 1/2 NPT	.8 oz.	3 oz.	18 lbs	SEE METER NAMEPLATE OR CERTIFICATION STAMP
	22,6 m ³ /h	mm	489	119	370	241	153	172	76,5	119	121	153	120,65	1 1/2 NPT	24 ml.	89 ml.	8,2 kg	
11C	1100 cfh	IN	19 3/4	4 15/16	14 13/16	9 1/2	6	6 3/4	3	4 11/16	4 3/4	6	4 3/4	1 1/2 NPT	.8 oz.	3 oz.	19 lbs	SEE METER NAMEPLATE OR CERTIFICATION STAMP
	31 m ³ /h	mm	502	126	376	241	153	172	76,5	119	121	153	120,65	1 1/2 NPT	24 ml.	89 ml.	8,6 kg	
15C G25	1500 cfh	IN	20 11/16	5 13/32	15 9/32	9 1/2	6	6 3/4	3	4 11/16	4 3/4	6	4 3/4	1 1/2 NPT	.8 oz.	3 oz.	21 lbs	SEE METER NAMEPLATE OR CERTIFICATION STAMP
	42,5 m ³ /h	mm	525,5	138	388	241	153	172	76,5	119	121	153	120,65	1 1/2 NPT	24 ml.	89 ml.	9,6 kg	

SERIES B3
 ROOTS® METER
 8C(G16)/11C/15C(G25)
 WITH IMCW2 *
 IMPERIAL OR METRIC

*INTEGRAL MICRO CORRECTOR WITH WIEGAND MAG PICK-UP

ANSI: 5/8-11 UNC-2B X 15/16 FULL THREAD DEPTH
 Z = NO. OF HOLES



06/2001 D056701-000

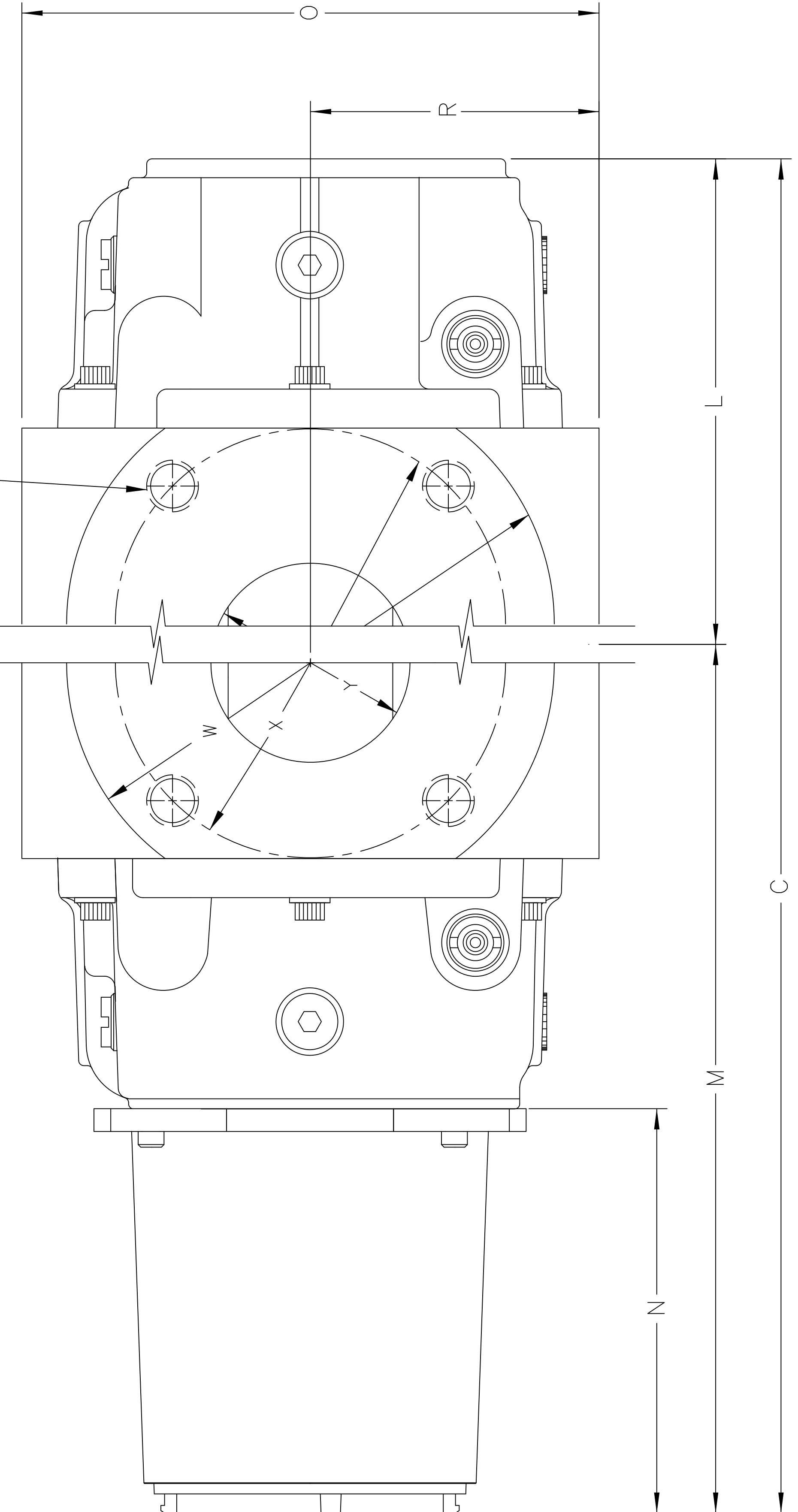
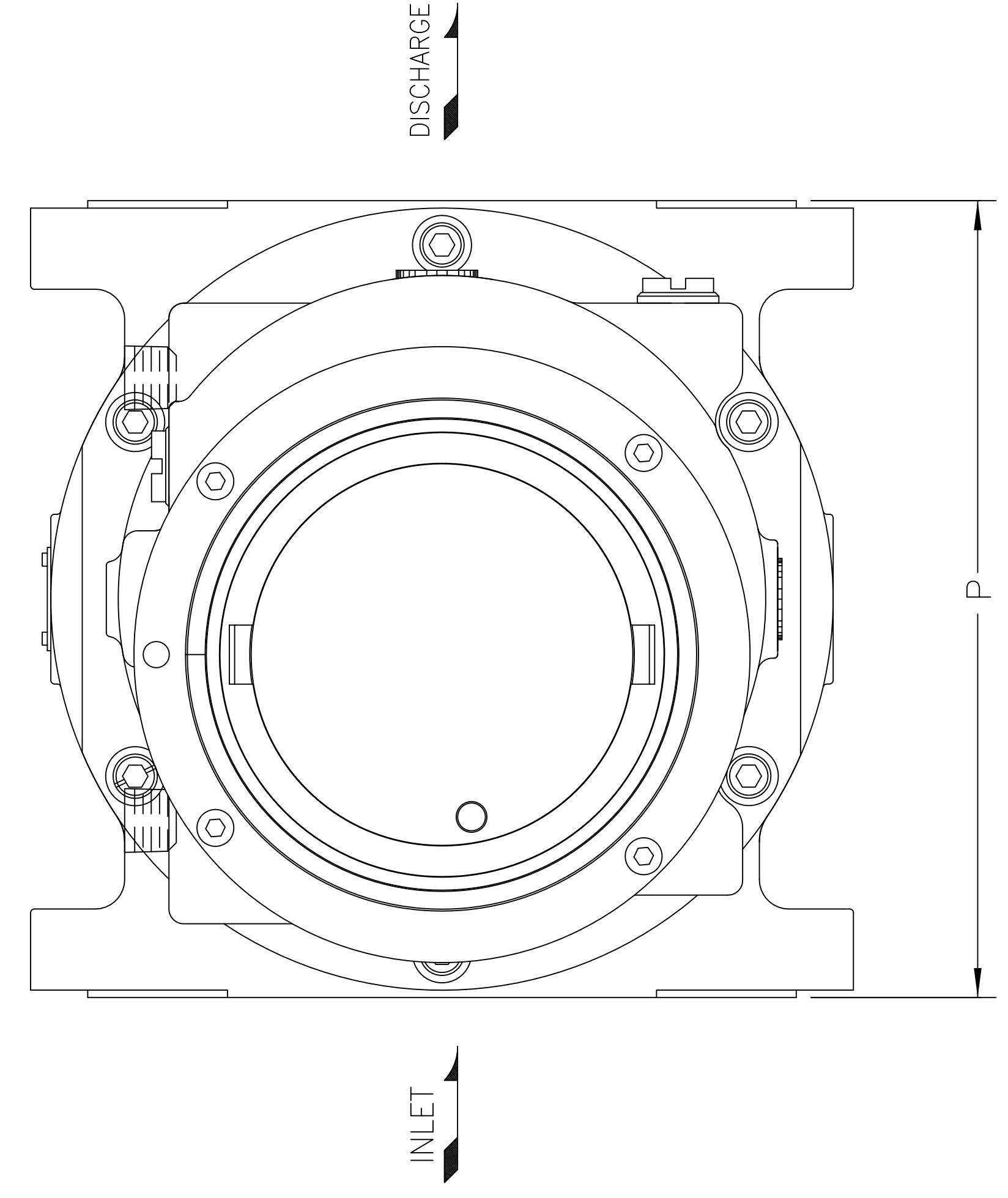
REV.	ECO. NO.	DATE	ENGINEERING CHANGES	MATERIAL	ROOTS METERS & INSTRUMENTS	DO NOT SCALE PRINTS.	TITLE
					DMD-Roots DIVISION PRESSOR EQUIPMENT GROUP, INC. ROSTON, TEXAS, USA	THIS DRAWING IS A CONVENTIONAL REPRESENTATION OF DESIGNER'S INTENT. IT IS NOT TO BE USED FOR FABRICATION UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.	DIMENSIONAL ASSEMBLY
							DESIGNER: IMCW2
							8/11/15C IMCW2
							APPROVED: (Signature)
							DATE: 07/JUN/01
							SCALE: (ZSEPOD)
							DRAWING NUMBER: D056701-000

MODEL	CAPACITY	DIMENSIONS											APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE	
		UNIT	C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET			TOP INLET
2M	2000 cfh	IN	15 7/8	5 11/16	10 3/16	4 7/8	6 31/32	6 3/4	3 31/64	6	4 3/4	2 1/4	4	1.25 oz.	7.6 oz.	26.5 lbs.	SEE METER NAMEPLATE OR CERTIFICATION STAMP
	57 m ³ /h	mm	403	144	259	124	177	172	88,5	153	120,65	57,5	4	37 ml.	225 ml.	12 kg.	
3M	3000 cfh	IN	17 1/16	6 1/4	10 13/16	4 7/8	6 31/32	6 3/4	3 31/64	6	4 3/4	2 1/4	4	1.25 oz.	7.6 oz.	29.0 lbs.	
	85 m ³ /h	mm	433	159	274	124	177	172	88,5	153	120,65	57,5	4	37 ml.	225 ml.	13 kg.	
5M	5000 cfh	IN	20	7 11/16	12 1/4	4 7/8	6 31/32	6 3/4	3 31/64	7 1/2	6	3 5/16	4	1.25 oz.	7.6 oz.	35.0 lbs.	
	141,5 m ³ /h	mm	507	196	311	124	177	172	88,5	190,5	152,4	84,14	4	37 ml.	225 ml.	15,9 kg.	
G40	2295 cfh	IN	15 7/8	5 11/16	10 3/16	4 7/8	6 31/32	6 3/4	3 31/64	6	4 3/4	2 1/4	4	1.25 oz.	7.6 oz.	26.5 lbs.	
	65 m ³ /h	mm	403	144	259	124	177	172	88,5	153	120,65	57,5	4	37 ml.	225 ml.	12 kg.	
G65	3531cfh	IN	17 1/16	6 1/4	10 13/16	4 7/8	6 31/32	6 3/4	3 31/64	6	4 3/4	2 1/4	4	1.25 oz.	7.6 oz.	29.0 lbs.	
	100 m ³ /h	mm	433	159	274	124	177	172	88,5	153	120,65	57,5	4	37 ml.	225 ml.	13 kg.	
G100	5650 cfh	IN	20	7 11/16	12 1/4	4 7/8	6 31/32	6 3/4	3 31/64	7 1/2	6	3 5/16	4	1.25 oz.	7.6 oz.	35.0 lbs.	
	160 m ³ /h	mm	507	196	311	124	177	172	88,5	190,5	152,4	84,14	4	37 ml.	225 ml.	15,9 kg.	

SERIES B3
ROOTS® METER
2M(G40)/3M(G65)/5M(G100)
WITH CTR* OR TC** UNIT
IMPERIAL OR METRIC

*CTR=DISPLACED VOLUME COUNTER
**TC=TEMPERATURE COMPENSATED VOLUME COUNTER

5/8-11 UNC-2B X 15/16 FULL THRD
Z = NO. OF HOLES



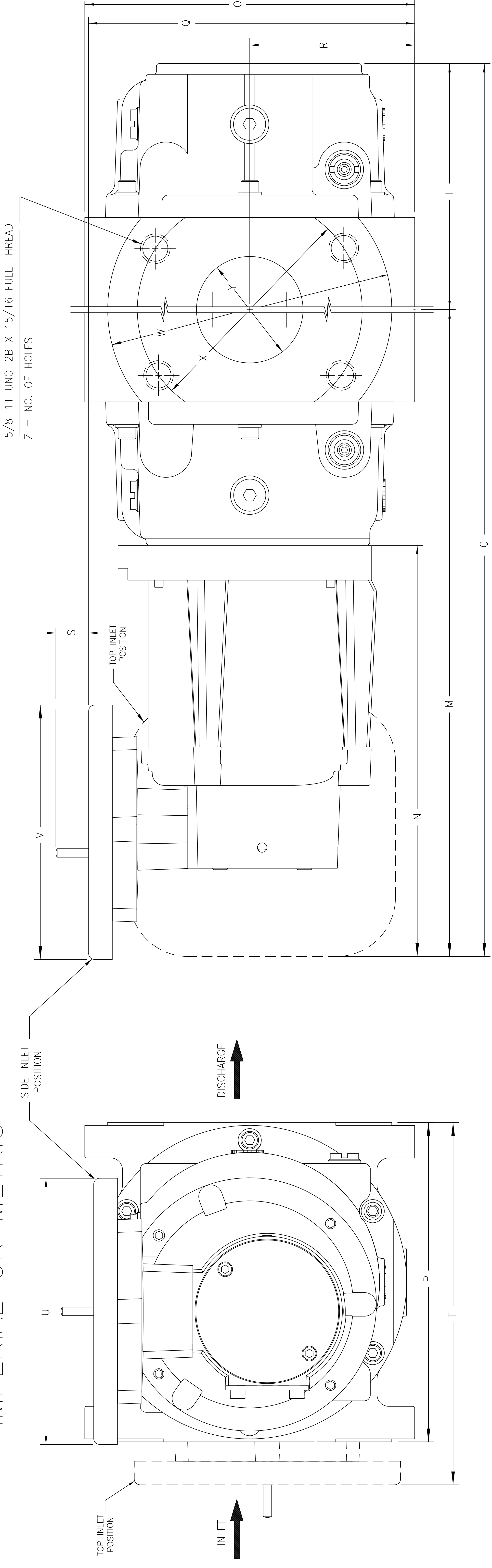
02/2007 D054517-000

REV. ECO. NO. DATE	A	ADD	G	12NOV98
ENGINEERS CHANGES	B	7844	10JUL00	
	C	8273	14JUL03	
	D	8820	24MAY07	
MATERIAL Dwg NUMBER PATTERN NUMBER FINISH				
DO NOT SCALE PRINTS. REMOVE BURRS. MATERIALS TO BE USED SHALL BE AS SPECIFIED IN THE DRAWING. DIMENSIONS ARE GIVEN IN INCHES AND DECIMALS THEREOF UNLESS OTHERWISE SPECIFIED. TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS: ±1/64" DECIMALS: ±.005" ANGLES: ±30'				
METERS & INSTRUMENTS DMD-Roots DIVISION DRESSER EQUIPMENT GROUP, INC. HOUSTON, TEXAS, USA				
DIMENSIONAL ASSEMBLY TOM ROOTS @ METER SERIES B-3 2M(G40)/3M(G65)/5M(G100) CTR/TC				
CHECKED	DESIGNER	APPROVED	DRAWING NUMBER	
JDM	JDM	JDM	D054517-000	
07JUL97	09JUL97	09JUL97	RELEASED	
INTS	INTS	INTS		

MODEL	CAPACITY	UNIT	DIMENSIONS																APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE
			C	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	SIDE INLET	TOP INLET		
2M	2000 cfh 57 m ³ /h	IN mm	19 25/32 503	5 21/32 144	14 1/8 359	8 11/16 221	8 11/16 221	6 3/4 172	6 3/4 172	6 7/8 175	3 31/64 88,5	11/16 17,5	7 21/32 195	5 5/8 143	5 3/8 137	6 153	4 3/4 120,65	2 1/4 57,15	4 225 ml.	7.6 oz. 225 ml.	28.5 lbs. 12,9 kg.	SEE NAMEPLATE
3M	3000 cfh 85 m ³ /h	IN mm	20 31/32 533	6 1/4 159	14 23/32 374	8 11/16 221	8 11/16 221	6 3/4 172	6 3/4 172	6 7/8 175	3 31/64 88,5	11/16 17,5	7 21/32 195	5 5/8 143	5 3/8 137	6 153	4 3/4 120,65	2 1/4 57,15	4 225 ml.	7.6 oz. 225 ml.	31.0 lbs. 13,9 kg.	SEE NAMEPLATE
5M	5000 cfh 141.5 m ³ /h	IN mm	23 27/32 606	7 11/16 195	16 5/32 411	8 11/16 221	8 11/16 221	6 3/4 172	6 3/4 172	6 7/8 175	3 31/64 88,5	11/16 17,5	7 21/32 195	5 5/8 143	5 3/8 137	7 1/2 190,5	6 152,4	3 5/16 84,14	4 225 ml.	7.6 oz. 225 ml.	37.0 lbs. 16,8 kg.	SEE NAMEPLATE
G40	2295 cfh 65 m ³ /h	IN mm	19 25/32 503	5 21/32 144	14 1/8 359	8 11/16 221	8 11/16 221	6 3/4 172	6 3/4 172	6 7/8 175	3 31/64 88,5	11/16 17,5	7 21/32 195	5 5/8 143	5 3/8 137	6 153	4 3/4 120,65	2 1/4 57,15	4 225 ml.	7.6 oz. 225 ml.	28.5 lbs. 12,9 kg.	SEE NAMEPLATE
G65	3531 cfh 100 m ³ /h	IN mm	20 31/32 533	6 1/4 159	14 23/32 374	8 11/16 221	8 11/16 221	6 3/4 172	6 3/4 172	6 7/8 175	3 31/64 88,5	11/16 17,5	7 21/32 195	5 5/8 143	5 3/8 137	6 153	4 3/4 120,65	2 1/4 57,15	4 225 ml.	7.6 oz. 225 ml.	31.0 lbs. 13,9 kg.	SEE NAMEPLATE
G100	5650 cfh 160 m ³ /h	IN mm	23 27/32 606	7 11/16 195	16 5/32 411	8 11/16 221	8 11/16 221	6 3/4 172	6 3/4 172	6 7/8 175	3 31/64 88,5	11/16 17,5	7 21/32 195	5 5/8 143	5 3/8 137	7 1/2 190,5	6 152,4	3 5/16 84,14	4 225 ml.	7.6 oz. 225 ml.	37.0 lbs. 16,8 kg.	SEE NAMEPLATE

SERIES B3
ROOTS® METER
2M(G40)/3M(G65)/5M(G100)
WITH CD* OR TD**
IMPERIAL OR METRIC

*CD = DISPLACED VOLUME COUNTER WITH INSTRUMENT DRIVE.
**TD = TEMPERATURE COMPENSATED VOLUME COUNTER WITH INSTRUMENT DRIVE.



02/2007

D054431-000

ENGINEERING CHANGES

A	7601	13MAY98	
B	ADD G	12NOV98	
C	7844	10JUL00	
D	8820	24JAN07	

MATERIAL

DWG NUMBER

PATTERN NUMBER

FINISH

DO NOT SCALE PRINTS.
REMOVE BURRS.
TOLERANCES UNLESS OTHERWISE SPECIFIED.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE TO BE GIVEN IN INCHES AND DECIMALS THEREOF.
ANG. ±30°

DMD DIVISION
MEASUREMENT OPERATION
DRESSER INDUSTRIES, INC.
HOUSTON, TEXAS

FRAC. ±1/64

DESIGNER: JMM
DATE: 02JUL97
SCALE: AS SHOWN

APPROVED: THL
DRAWING NUMBER: D054431-000

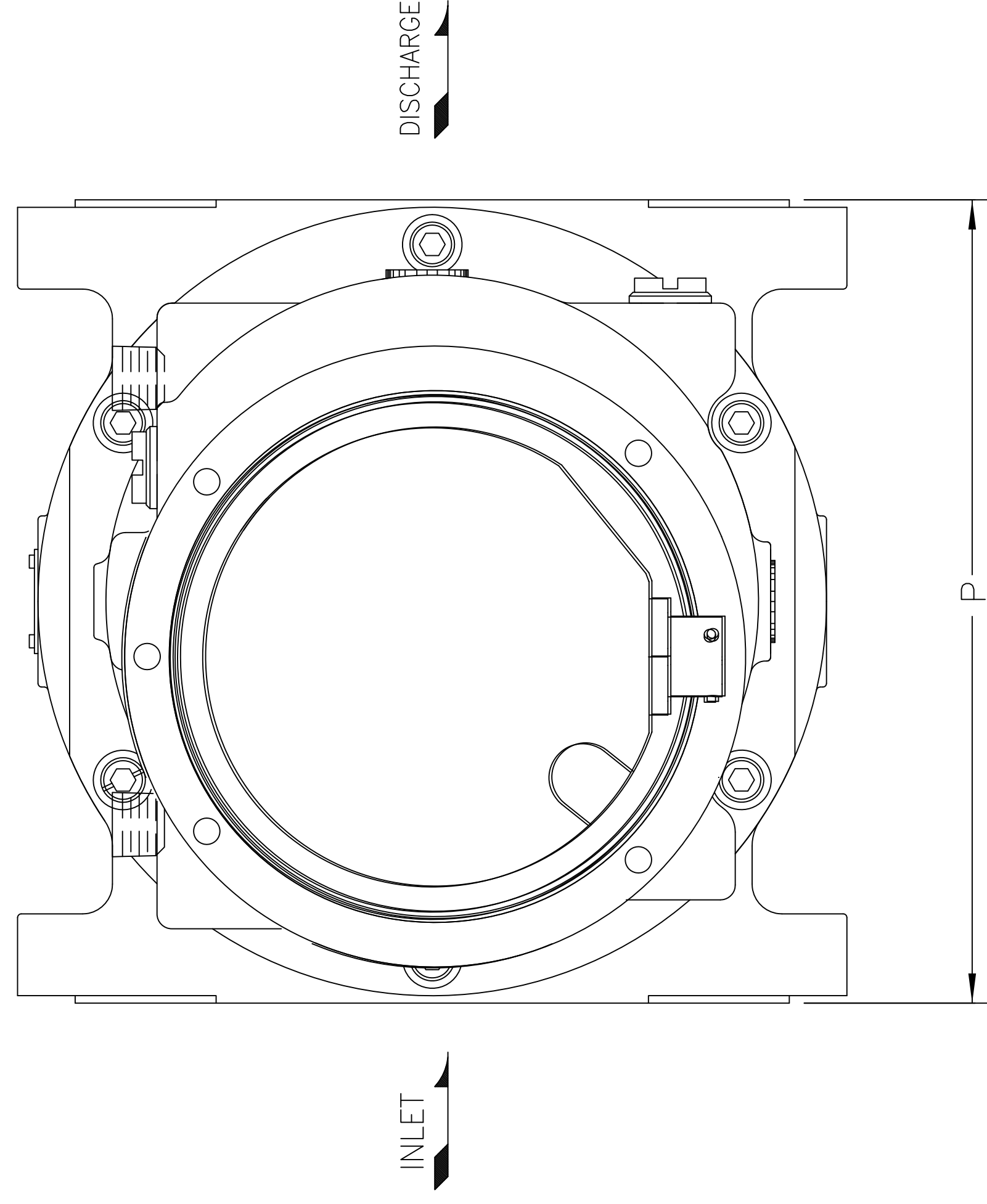
TITLE: DIMENSIONAL ASSEMBLY
ROOTS® METERS, SERIES B-3
2/3/5M G40/65/100 CD/TD

MODEL	DIMENSIONS										APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE		
	UNIT	C	L	M	N	O	P	R	W	X	Y	Z			SIDE INLET	TOP INLET
2M G40	IN	17 3/8	5 21/32	11 3/4	6 3/8	6 31/32	6 3/4	3 31/64	6	4 3/4	2 1/4	4	1.25 oz.	7.6 oz.	26.5 lbs.	175 psig.
	mm	441	144	298	162	177	172	88,5	153	120,65	57,5	4	37 ml.	225 ml.	12 kg.	
3M G65	IN	18 5/8	6 1/4	12 3/8	6 3/8	6 31/32	6 3/4	3 31/64	6	4 3/4	2 1/4	4	1.25 oz.	7.6 oz.	29.0 lbs.	
	mm	473	159	314	162	177	172	88,5	153	120,65	57,5	4	37 ml.	225 ml.	13 kg.	
5M G100	IN	21 1/2	7 11/16	13 13/16	6 3/8	6 31/32	6 3/4	3 31/64	7 1/2	6	3 5/16	4	1.25 oz.	7.6 oz.	35.0 lbs.	
	mm	546	195	351	162	177	172	88,5	190,5	152,4	84,14	4	37 ml.	225 ml.	15,9 kg.	

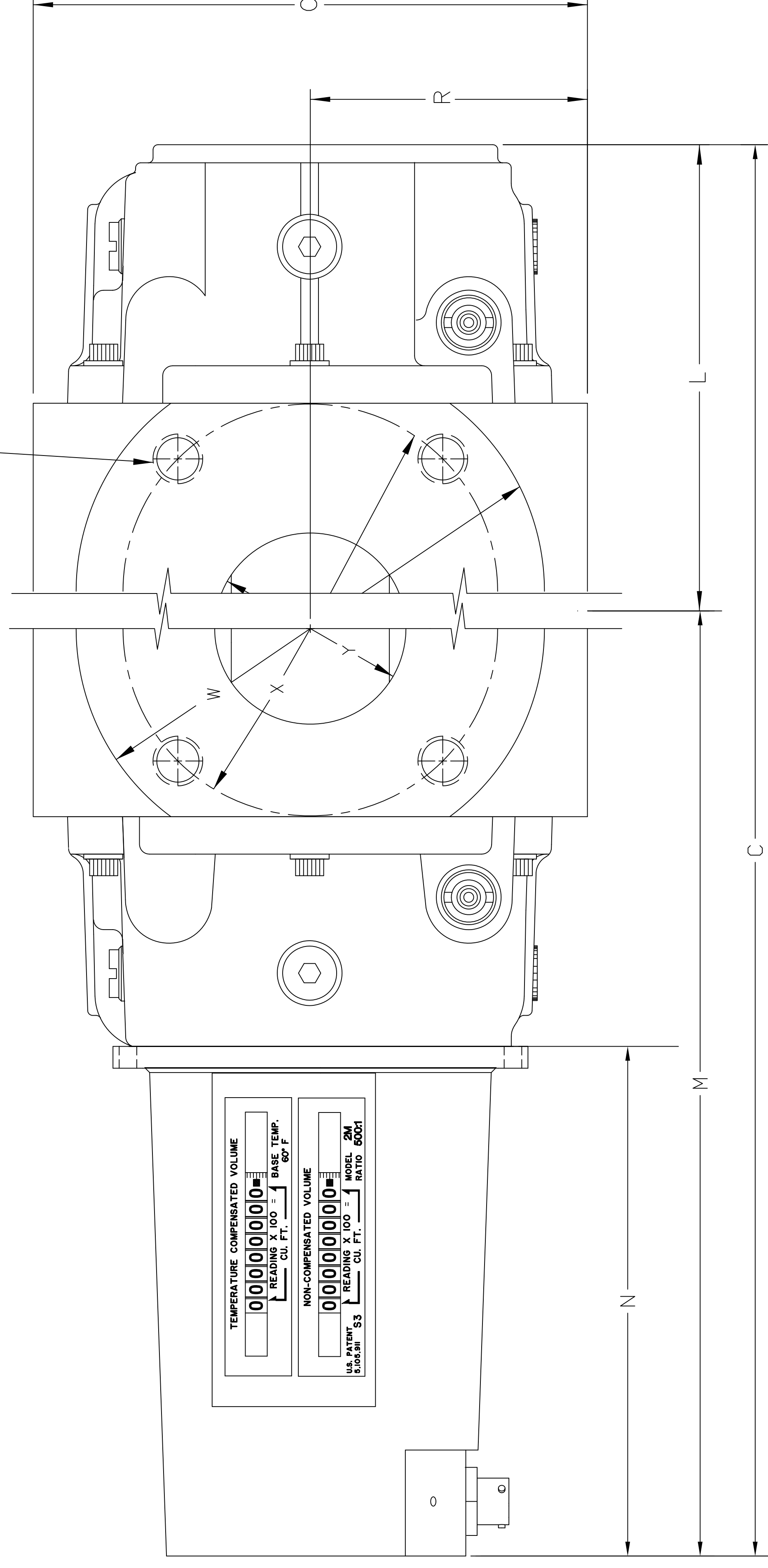
SERIES B3
ROOTS® METER
2M(G40)/3M(G65)/5M(G100)

⚠ FOR THE FOLLOWING MODELS (*)
ICPW, ITPW, ICEX

IMPERIAL OR METRIC



5/8-11 UNC-2B X 15/16 FULL THRD
Z = NO. OF HOLES



*AMPHENOL (AS SHOWN), CABLE GLAND OR CONDUIT VERSIONS

02/2007

D056900-000

REV.	ECO. NO.	DATE
A	ADD	MDL 23JAN03
B	8820	24JAN07

MATERIAL	
JIG NUMBER	
PATTERN NUMBER	
FINISH	

DO NOT SCALE PRINTS. INDICATED DIMENSIONS ARE TO BE USED FOR FABRICATION. BREAK ALL SHARP EDGES. SPECIFIED DIMENSIONS ARE TO BE USED FOR ANY DIMENSIONS TO WHICH IT APPLIES. DIMENSIONS TO WHICH IT APPLIES.		DRAWN BY SCALE NTS		CHECKED DATE 07FEB02		APPROVED RICK A. AT 2/3/5M		DESIGNER ICPW ITPW ICEX		TITLE DIMENSIONAL ASSEMBLY SERIES B3 ROOTS® METER	
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ROOTS METERS & INSTRUMENTS DWP - ROOTS DIVISION HOUSTON, TEXAS, USA		DRAWING NUMBER D056900-000	
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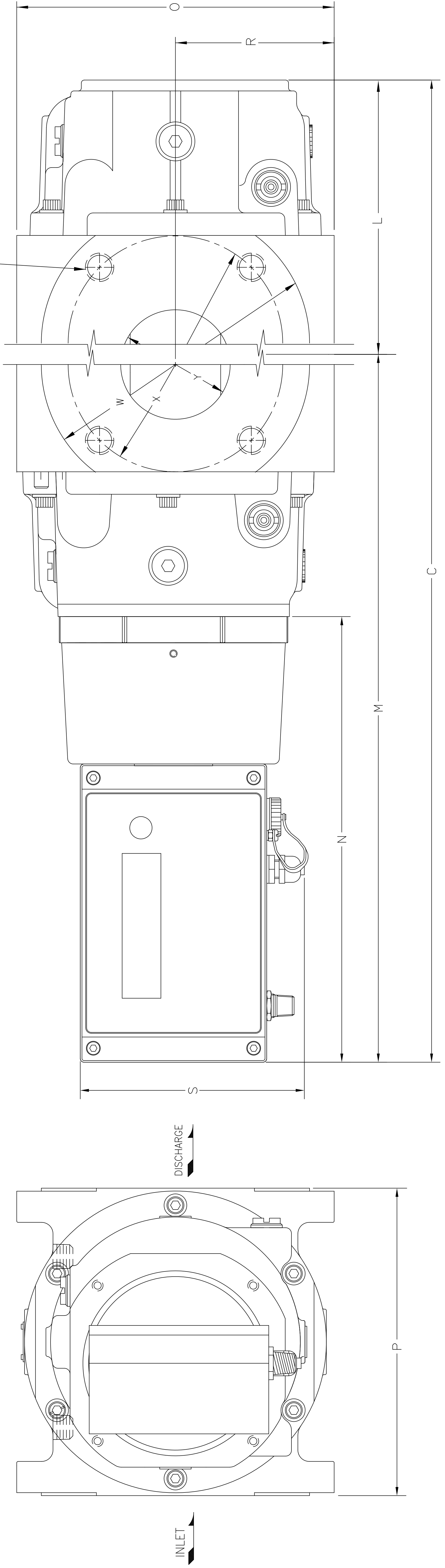
MODEL	UNIT	DIMENSIONS												APPROX. OIL CAPACITY	APPROX WEIGHT	MAX. WORK PRESSURE											
		C	L	M	N	O	P	R	S	W	X	Y	Z				SIDE INLET	TOP INLET									
2M	G40	20	13/32	5	21/32	14	3/4	9	1/2	6	31/32	6	3/4	3	31/64	4	11/16	6	4	3/4	2	1/4	4	1.25 oz.	7.6 oz.	26.5 lbs.	175 psig.
	mm	518	144	375	241	177	172	88,5	119	153	120,65	57,5	4	37 ml.	225 ml.	12 kg.											
3M	G65	21	5/8	6	1/4	15	3/8	9	1/2	6	31/32	6	3/4	3	31/64	4	11/16	6	4	3/4	2	1/4	4	1.25 oz.	7.6 oz.	29.0 lbs.	1200 kPa.
	mm	549	159	391	241	177	172	88,5	119	153	120,65	57,5	4	37 ml.	225 ml.	13 kg.											
5M	G100	24	1/2	7	11/16	16	13/16	9	1/2	6	31/32	6	3/4	3	31/64	4	11/16	7	1/2	6	3	5/16	4	1.25 oz.	7.6 oz.	35.0 lbs.	1200 kPa.
	mm	622	195	427	241	177	172	88,5	119	190,5	152,4	84,14	4	37 ml	5,9 kg	225 ml.											

SERIES B3
 ROOTS® METER
 2M(G40)/3M(G65)/5M(G100)
 WITH IMCW2 *

IMPERIAL OR METRIC

*INTEGRAL MICRO CORRECTOR WITH WIEGAND MAG PICK-UP

ANSI: 5/8-11 UNC-2B X 15/16 FULL THRO
 Z = NO. OF HOLES



02/2007

D056702-000

REV.	ECO. NO.	DATE	ENGINEERING CHANGES
A	8820	24JAN07	

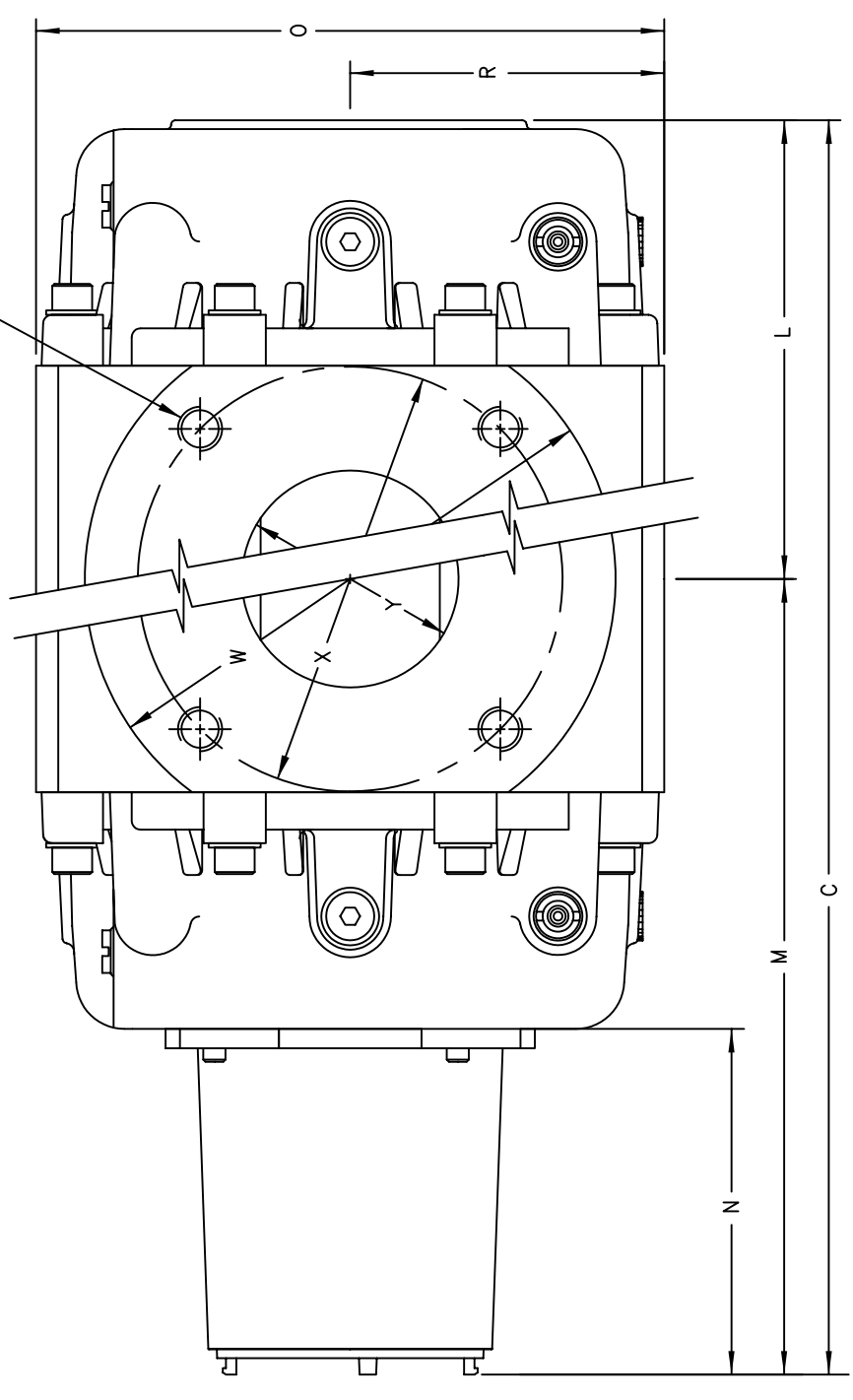
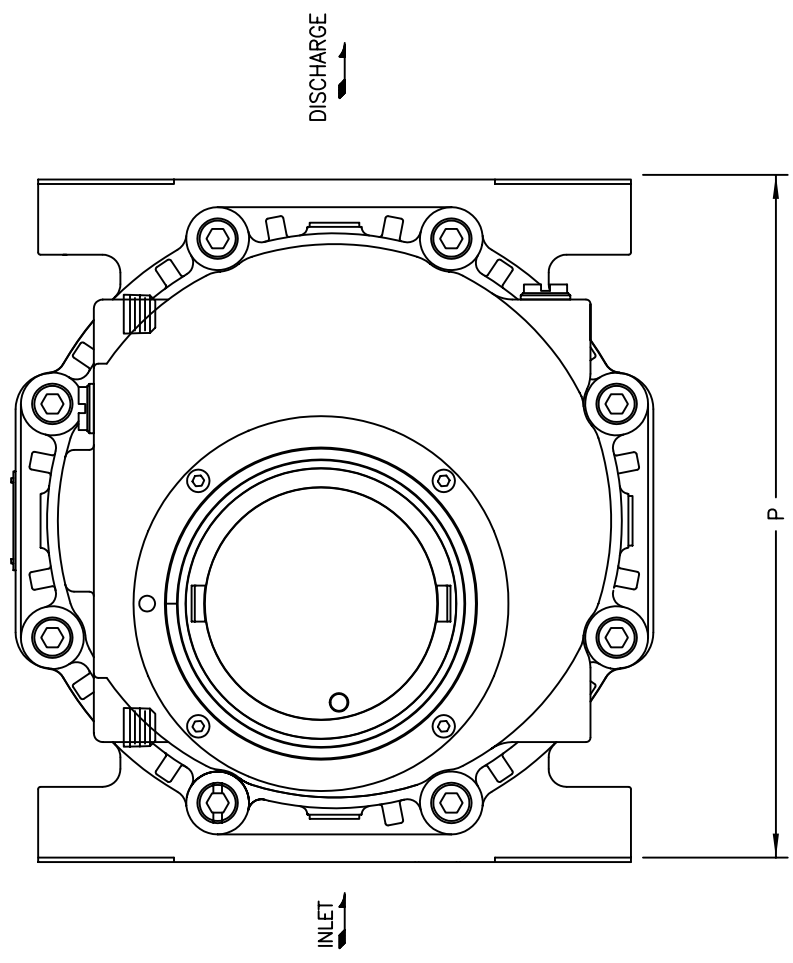
MATERIAL		ROOTS METERS & INSTRUMENTS		DIMENSIONAL ASSEMBLY	
JIG NUMBER		DWG. NO.	DIVISION	TITLE	DESIGNER
PATTERN NUMBER		ORD. NO.	HOUSTON, TEXAS, USA	SERIES B3 ROOTS® METER	2/3/5M IMCW2
FINISH				SCALE	APPROVED
				DATE	DATE
				07JUN01	07JUN01
				SCALE	RELEASED
				NTS	NTS
				DRAWING NUMBER	D056702-000

MODEL	CAPACITY		DIMENSIONS										APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE
	UNIT	C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET	TOP INLET		
7M	7,000 cfh	18 1/8	6 9/16	11 5/8	4 7/8	8 7/8	9 1/2	4 7/16	7 1/2	6	3 5/16	4	3 oz.	21.8 oz.	48.0 lbs.	SEE METER NAMEPLATE OR CERTIFICATION STAMP
	200 m ³ /h	461	166	295	124	225,4	241,3	112,7	190,5	152,4	84	4	89 ml.	645 ml.	21,8 kg.	
11M	11,000 cfh	21 13/16	8 3/8	13 7/16	4 7/8	8 7/8	9 1/2	4 7/16	9	7 1/2	4 1/32	8	3 oz.	21.8 oz.	62.0 lbs.	
	310 m ³ /h	553	212	341	124	225,4	241,3	112,7	228,6	190,5	102,4	8	89 ml.	645 ml.	28,1 kg.	
16M	16,000 cfh	26 7/16	10 5/8	15 13/16	4 7/8	8 7/8	9 1/2	4 7/16	9	7 1/2	4 1/32	8	3 oz.	21.8 oz.	83.0 lbs.	
	450 m ³ /h	672	271	401	124	225,4	241,3	112,7	228,6	190,5	102,4	8	89 ml.	645 ml.	37,6 kg.	
G250	14,124 cfh	26 7/16	10 11/16	15 13/16	4 7/8	8 7/8	9 1/2	4 7/16	9	7 1/2	4 1/32	8	3 oz.	21.8 oz.	83.0 lbs.	
	400 m ³ /h	672	271	401	124	225,4	241,3	112,7	228,6	190,5	102,4	8	89 ml.	645 ml.	37,6 kg.	

SERIES B3
 ROOTS® METER
 7M/11M/16M(G250)
 WITH CTR* OR TC** UNIT
 IMPERIAL OR METRIC

*CTR=DISPLACED VOLUME COUNTER
 **TC=TEMPERATURE COMPENSATED VOLUME COUNTER

5/8-11 UNC-2B X 15/16 (7M) & 1 1/16 (11M/16M/G250)
 FULL THREAD DEPTH
 Z = NO. OF HOLES



08/2003 D054518-000

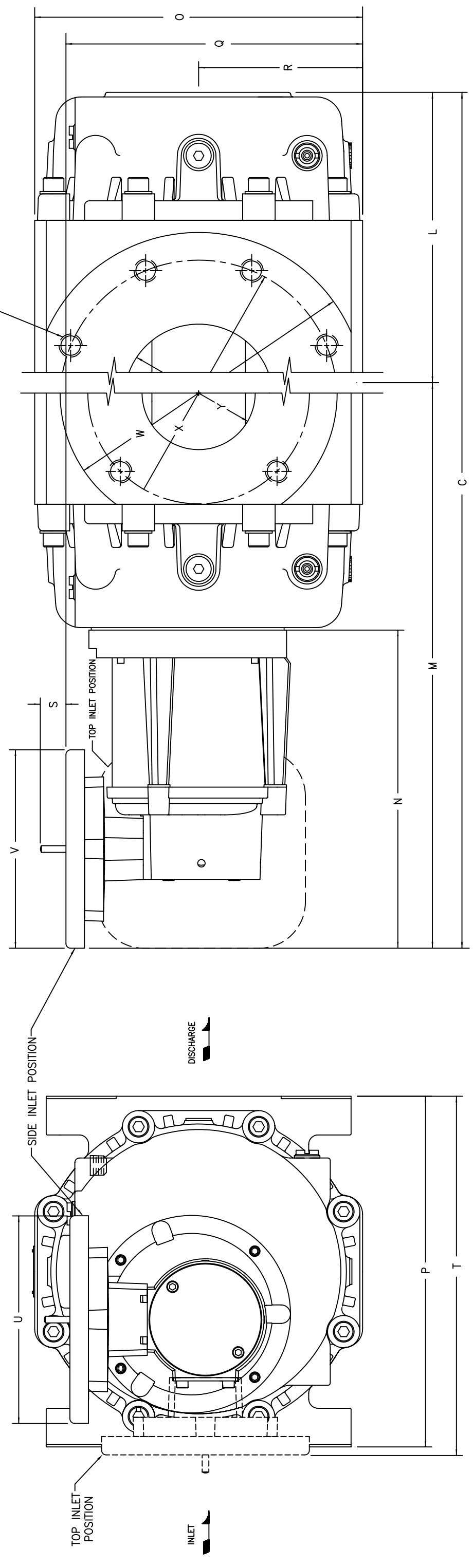
REV. ECO. NO. DATE	A	7844	10JUL00
ENGINEERING CHANGES	B	8273	14JUL03
MATERIAL PART NUMBER PATTERN NUMBER FINISH			
ROOTS METERS & INSTRUMENTS DMD-Roots DIVISION PRESSUR EQUIPMENT GROUP, INC. FORTSMITH, TEXAS, USA			
DO NOT SCALE PRINTS. DIMENSIONS SHOWN ARE UNLESS OTHERWISE SPECIFIED. DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES. DEC. 9, 2000 FRACTIONAL DECIMALS TO BE SHOWN WITH LEADING ZERO.			
TITLE DIMENSIONAL ASSEMBLY SERIES B3 ROOTS METER 7M/11M/16M(G250) L2-MA CTR/TC			
DESIGNED	DATE	APPROVED	DATE
NTS	07JUL97	NTS	07JUL97
DRAWING NUMBER D054518-000			

MODEL	CAPACITY		DIMENSIONS																APPROX. OIL CAPACITY		MAX. WORK PRESSURE
	UNIT	IN	C	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	SIDE INLET	TOP INLET	
7M	7,000 cfh	IN	21 19/32	6 1/2	15 3/32	8 11/16	8 7/8	9 1/2	8 1/32	4 7/16	11/16	9 3/4	5 5/8	5 3/8	7 1/2	6	3 1/16	4	3 oz.	21.8 oz.	51.0 lbs.
	200 m ³ /h	mm	548	165	383	221	225,4	241,3	204	112,7	17,5	248	143	137	190,5	152,4	77,8	4	89 ml.	645 ml.	23,1 kg.
11M	11,000 cfh	IN	25 3/16	8 9/32	16 29/32	8 11/16	8 7/8	9 1/2	8 1/32	4 7/16	11/16	9 3/4	5 5/8	5 3/8	9	7 1/2	4 1/32	8	3 oz.	21.8 oz.	65.0 lbs.
	310 m ³ /h	mm	640	211	429	221	225,4	241,3	204	112,7	17,5	248	143	137	228,6	190,5	102,4	8	89 ml.	645 ml.	29,5 kg.
16M	16,000 cfh	IN	29 27/32	10 5/8	19 7/32	8 11/16	8 7/8	9 1/2	8 1/32	4 7/16	11/16	9 3/4	5 5/8	5 3/8	9	7 1/2	4 1/32	8	3 oz.	21.8 oz.	86.0 lbs.
	450 m ³ /h	mm	758	270	488	221	225,4	241,3	204	112,7	17,5	248	143	137	228,6	190,5	102,4	8	89 ml.	645 ml.	39,0 kg.
G250	14,124 cfh	IN	29 27/32	10 5/8	19 7/32	8 11/16	8 7/8	9 1/2	8 1/32	4 7/16	11/16	9 3/4	5 5/8	5 3/8	9	7 1/2	4 1/32	8	3 oz.	21.8 oz.	86.0 lbs.
	400 m ³ /h	mm	758	270	488	221	225,4	241,3	204	112,7	17,5	248	143	137	228,6	190,5	102,4	8	89 ml.	645 ml.	39,0 kg.

*CD=DISPLACED VOLUME COUNTER WITH INSTRUMENT DRIVE
 **TD=TEMPERATURE COMPENSATED VOLUME COUNTER WITH INSTRUMENT DRIVE

SERIES B3 ROOTS® METER 7/11/16M(G250) WITH CD* OR TD** UNIT IMPERIAL OR METRIC

5/8-11 UNC-2B X 15/16 (7M) & 1 1/16 (11M/16M)
 FULL THREAD DEPTH
 Z = NO. OF HOLES



10/2000 D054432-000

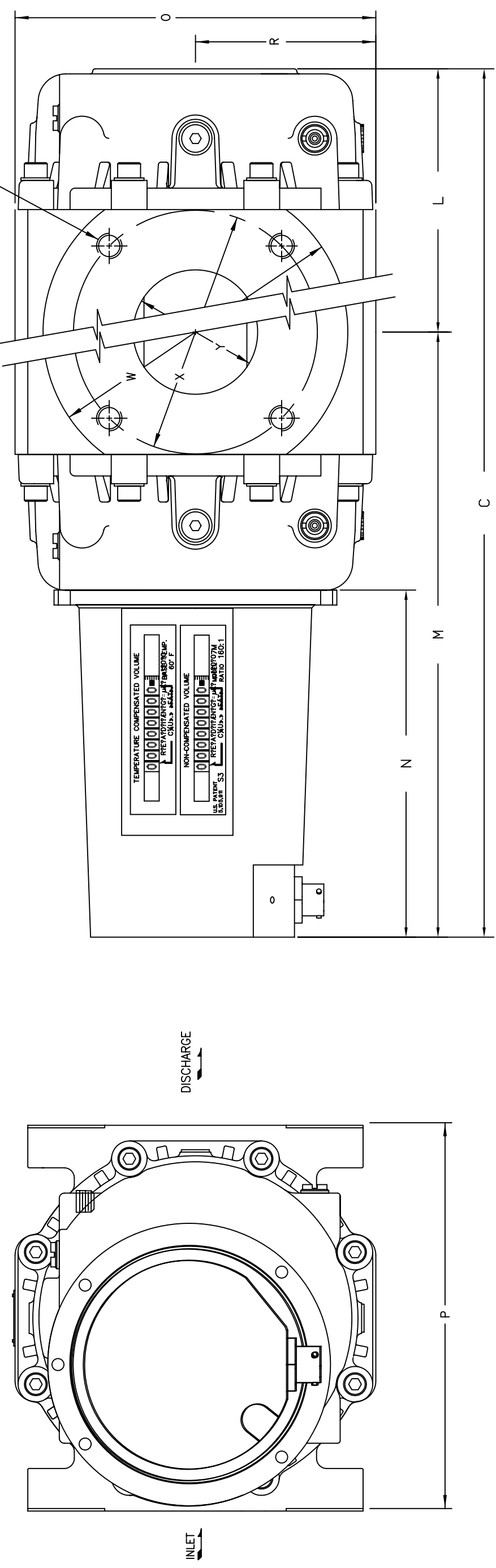
ENGINEERING CHANGES	REV. ECO. NO. DATE	A L & C 19SE297	QGE DIM LINE	B 7601 13MAY98	C ADO G250 12NOV98	D 7844 10JUL00
MATERIAL: _____ PART NUMBER: _____ FINISH: _____						
ROOTS METERS & INSTRUMENTS DMD-Roots DIVISION PRECISION MEASUREMENT, INC. HOUSTON, TEXAS, USA						
TITLE: DIMENSIONAL ASSEMBLY TQM ROOTS® METER SERIES B3 7M/11M/16M(G250) CD/TD						
DATE	DESIGNED	APPROVED	THL	DATE	RELEASED	DRAWING NUMBER
05FEB92	JIM	JIM	05FEB92	05FEB92	05FEB92	D054432-000

MODEL	CAPACITY	UNIT	DIMENSIONS										APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE	
			C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET			TOP INLET
7M	7,000 cfh	IN	19 5/16	6 1/2	12 13/16	6 3/8	8 7/8	9 1/2	4 7/16	7 1/2	6	3 1/16	4	3 oz.	24.8 oz.	48.0 lbs.	175 psig
	200 m ³ /h	mm	491	165	325	162	225,4	241,3	112,7	190,5	152,4	77,8	4	89 ml.	645 ml.		
11M	11,000 cfh	IN	22 7/8	8 9/32	14 19/32	6 3/8	8 7/8	9 1/2	4 7/16	9	7 1/2	4 1/32	8	3 oz.	24.8 oz.	62.0 lbs.	1200 kPa
	310 m ³ /h	mm	581	211	371	162	225,4	241,3	112,7	228,6	190,5	102,4	8	89 ml.	645 ml.		
16M G250	16,000 cfh	IN	27 9/16	10 5/8	16 15/16	6 3/8	8 7/8	9 1/2	4 7/16	9	7 1/2	4 1/32	8	3 oz.	24.8 oz.	83.0 lbs.	1200 kPa
	450 m ³ /h	mm	700	270	430	162	225,4	241,3	112,7	228,6	190,5	102,4	8	89 ml.	645 ml.		

SERIES B3
ROOTS® METER
7M/11M/16M(G250)

* FOR THE FOLLOWING MODELS (*)
 ICPW, ITPW, ICEX
IMPERIAL OR METRIC

5/8-11 UNC-2B X 15/16 (7M) & 1 1/16 (11M/16M)
 FULL THREAD DEPTH
 Z = NO. OF HOLES



*AMPHENOL (AS SHOWN), CABLE GLAND OR CONDUIT VERSIONS

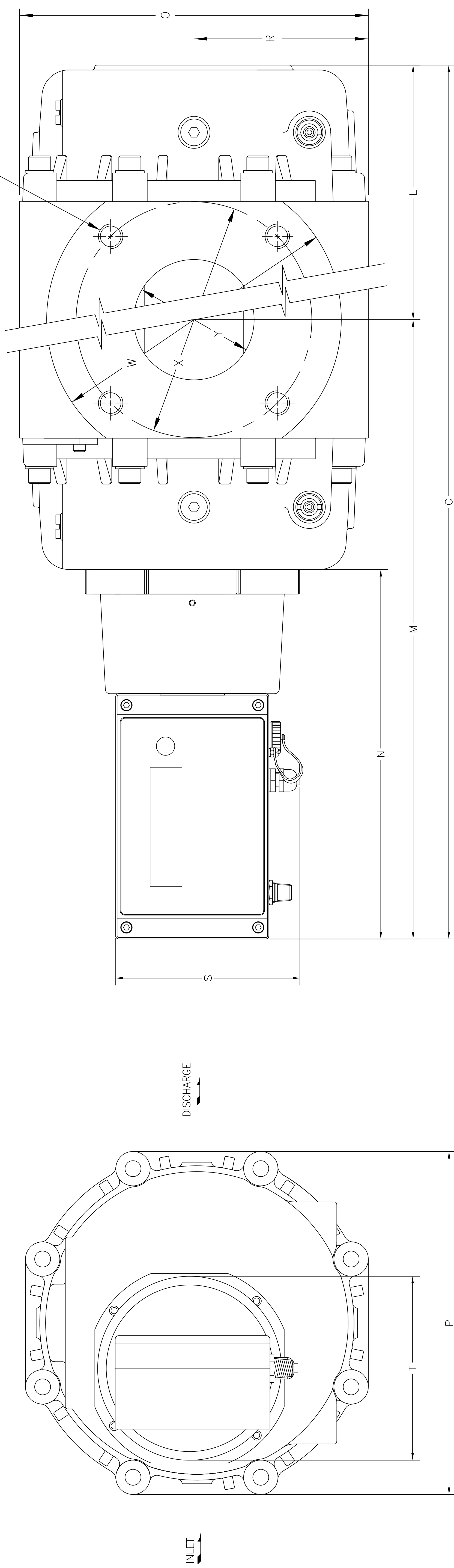
REV. ECO. NO. DATE	A	ADD. MFL. 23JAN03	ENGINEERING CHANGES
MATERIAL: _____ PART NUMBER: _____ FINISH: _____			
DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS USA		TITLE: DIMENSIONAL ASSEMBLY SERIES B3 ROOTS METER ICPW, ITPW, ICEX DATE: 7/11/16M SCALE: AS SHOWN APPROVED: _____ CHECKED: _____ DATE: 14FEB02 RELEASED: 02/24/2002	
D056901-000		02/2002	

MODEL	DIMENSIONS												APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE		
	CAPACITY	UNIT	C	L	M	N	O	P	R	S	T	W	X	Y			Z	SIDE INLET
7M	7,000	cfh	24 3/16	6 1/2	17 11/16	9 1/2	8 7/8	9 1/2	4 7/16	4 11/16	4 3/4	7 1/2	6	3 1/16	4	3 oz.	21.8 oz.	48.0 lbs.
	200	m ³ /h	614	165	449	241	225,4	241,3	112,7	119	121	190,5	152,4	77,8	4	89 ml.	645 ml.	21,8 kg.
11M	11,000	cfh	27 3/4	8 9/32	19 15/32	9 1/2	8 7/8	9 1/2	4 7/16	4 11/16	4 3/4	9	7 1/2	4 1/32	8	3 oz.	21.8 oz.	62.0 lbs.
	310	m ³ /h	705	211	495	241	225,4	241,3	112,7	119	121	228,6	190,5	102,4	8	89 ml.	645 ml.	28,1 kg.
16M G250	16,000	cfh	32 7/16	10 5/8	21 13/16	9 1/2	8 7/8	9 1/2	4 7/16	4 11/16	4 3/4	9	7 1/2	4 1/32	8	3 oz.	21.8 oz.	83.0 lbs.
	450	m ³ /h	824	270	554	241	225,4	241,3	112,7	119	121	228,6	190,5	102,4	8	89 ml.	645 ml.	37,6 kg.

SERIES B3
 ROOTS® METER
 7M/11M/16M(G250)
 WITH IMCW2 *
 IMPERIAL OR METRIC

*INTEGRAL MICRO CORRECTOR WITH WIEGAND MAG PICK-UP

ANSI: 5/8-11 UNC-2B X 15/16 (7M) &
 1-1/16 (11M/16M)
 FULL THREAD DEPTH
 Z = NO. OF HOLES



REV.	ECO. NO.	DATE

MATERIAL		JIG NUMBER		PATTERN NUMBER		FINISH	

THIS DRAWING IS THE PROPERTY OF DDM. IT IS TO BE USED ONLY FOR THE PROJECT AND SPECIFICATIONS INDICATED THEREON. IT IS TO BE RETURNED TO DDM UPON COMPLETION OF THE PROJECT. NO PARTS OF THIS DRAWING ARE TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF DDM, NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

DO NOT SCALE PRINTS.
 BREAK ALL SHARP EDGES.
 DIMENSIONS ARE GIVEN IN INCHES UNLESS OTHERWISE SPECIFIED.
 DEC. # 505
 ANG. # 30
 FRAC. # 1/64

TITLE	DRAWN BY	CHECKED	APPROVED	DRAWING NUMBER
DIMENSIONAL ASSEMBLY SERIES B3 ROOTS® METER 7/11/16M IMCW2	NTS	FG	LCA/BNL/DJD	D056703-000

06/2001

D056703-000

ENGINEERING CHANGES	REV.	ECO. NO.	DATE

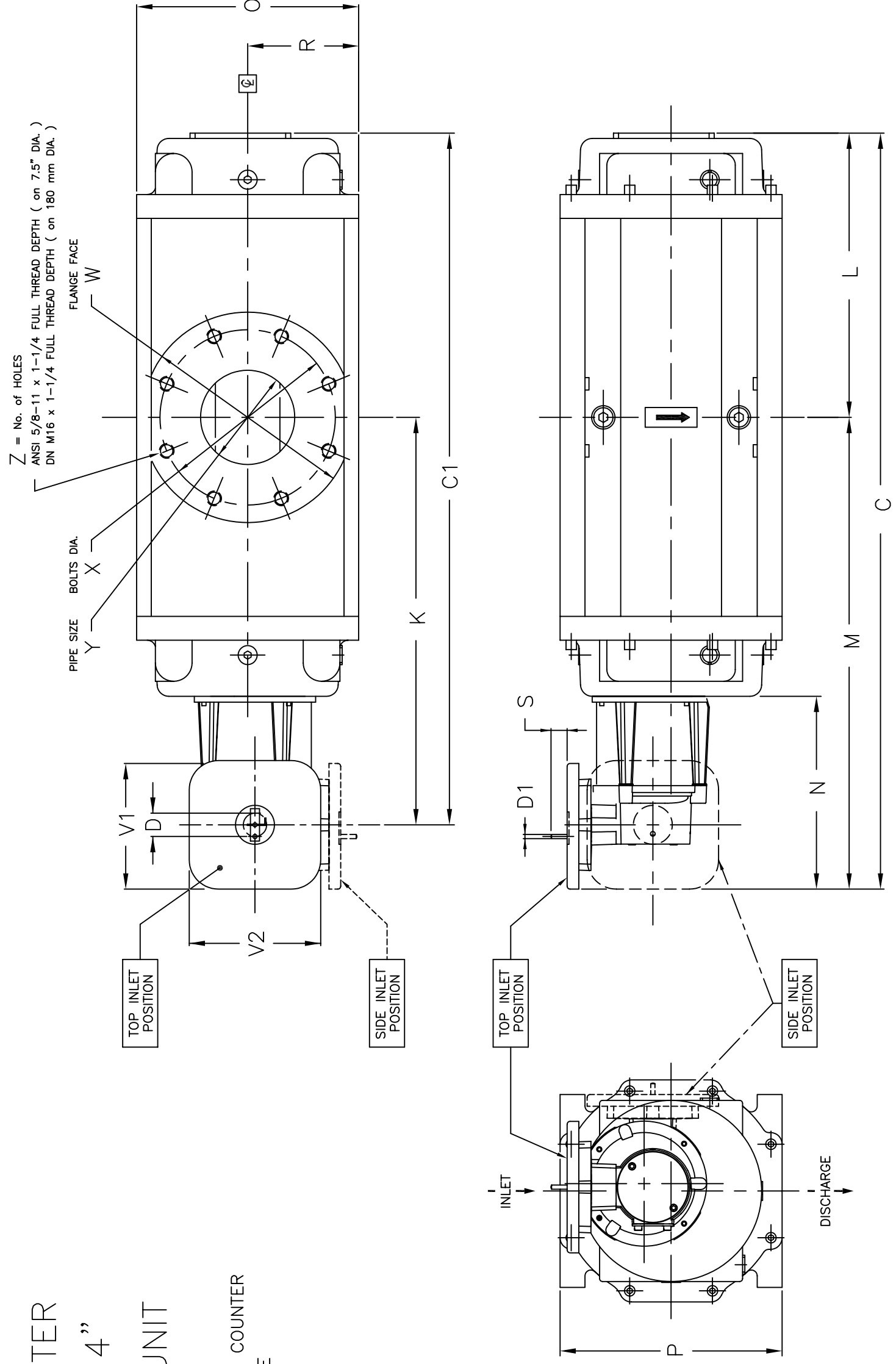
ROOTS METERS & INSTRUMENTS
 DDM-Roots DIVISION
 12000 NORTH HOUSTON ROAD
 HOUSTON, TEXAS, USA

MODEL	CAPACITY	DIMENSIONS														APPROXIMATE OIL CAPACITIES		APPROX. WEIGHT		MAX. WORK PRESSURE			
		UNIT	C	C1	D	D1	K	L	M	N	O	P	R	S	V1	V2	W	X	Y		Z	SIDE INLET	TOP INLET
		IN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm
23M232	23000	cfh	32 ¹³ / ₁₆	30 ¹ / ₈	7 ⁷ / ₈	3 ³ / ₁₆	18	12 ¹ / ₈	20 ¹¹ / ₁₆	8 ¹¹ / ₁₆	9 ¹ / ₂	9 ¹ / ₂	9 ¹ / ₂	4 ³ / ₄	11 ¹¹ / ₁₆	5 ³ / ₈	5 ⁵ / ₈	9	7 ¹ / ₂	4	8	3.4	21.8
G400	650	m ³ /h	833	765	22	5	457	308	525	221	241	241	241	121	17	143	143	229	180	100	8	100.5	644.7

SEE METER NAMEPLATE OR CERTIFICATION STAMP

SERIES B3
ROOTS METER
23M232, 4"
WITH CD* UNIT

* CD=DISPLACED VOLUME COUNTER WITH INSTRUMENT DRIVE



08/2002

D057051-000

08AUG02

NTS

08AUG02

057051-000

REVISIONS

REV.	ECO.	NO.	DATE

ENGINEERING CHANGES

	<p>PROJECTION TYPE</p>	<p>MATERIAL</p>	<p>DRESSER ROOTS METERS & INSTRUMENTS</p>	<p>DRAWN BY [] CHECKED BY [] DATE []</p>	<p>SCALE</p>	<p>DATE</p>	<p>08AUG02</p>	<p>057051-000</p>	<p>RELEASED</p>	<p>057051-000</p>	<p>TITLE</p> <p>DIMENSIONAL ASSEMBLY</p> <p>ROOTS METER</p> <p>23M232, 4" WITH CD</p> <p>SERIES B3</p>
											<p>DO NOT SCALE PRINTS. REPRODUCE FROM ORIGINAL. TOLERANCES UNLESS OTHERWISE SPECIFIED. DEC = .0005 FRACTION = 1/64</p>
											<p>DRESSER ROOTS METERS & INSTRUMENTS</p> <p>Dresser Measurement</p> <p>HOUSTON, TEXAS USA</p>
											<p>DRG. NO. []</p> <p>DATE []</p> <p>SCALE []</p> <p>DATE []</p>

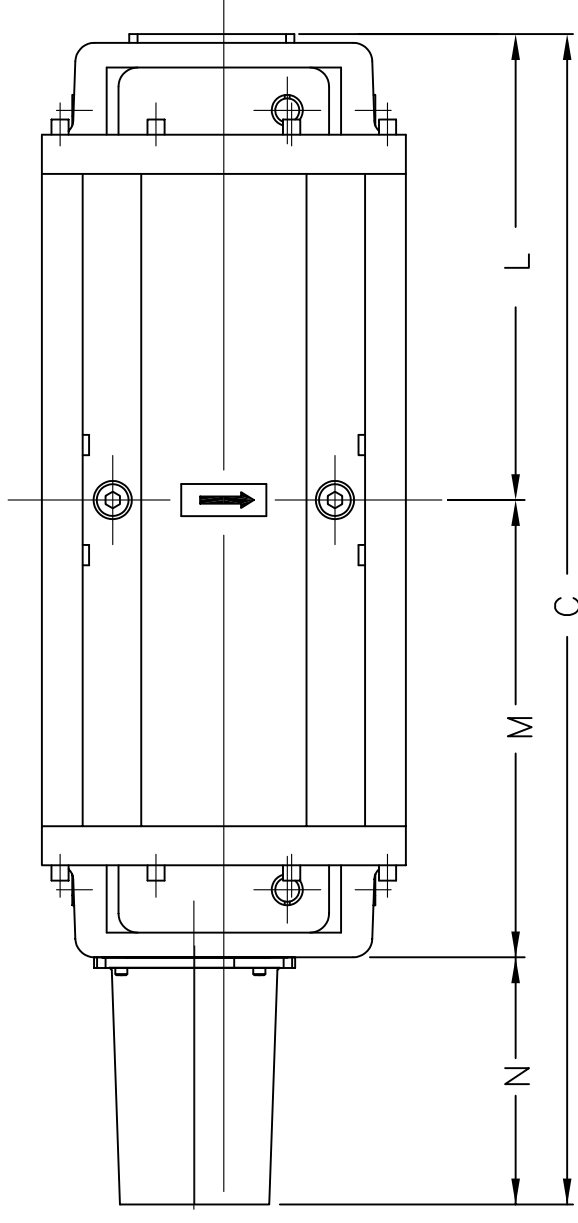
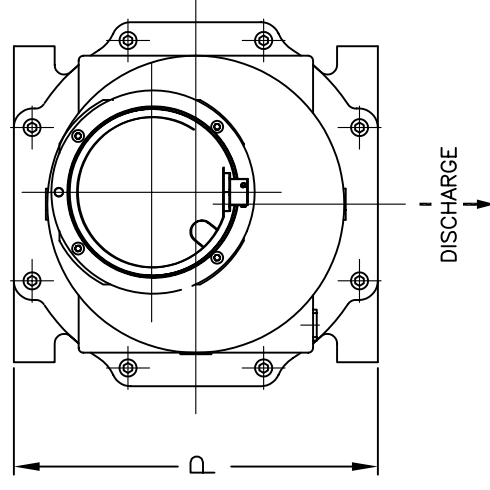
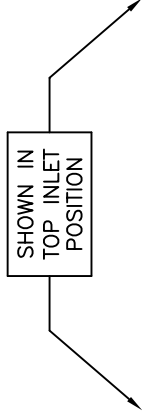
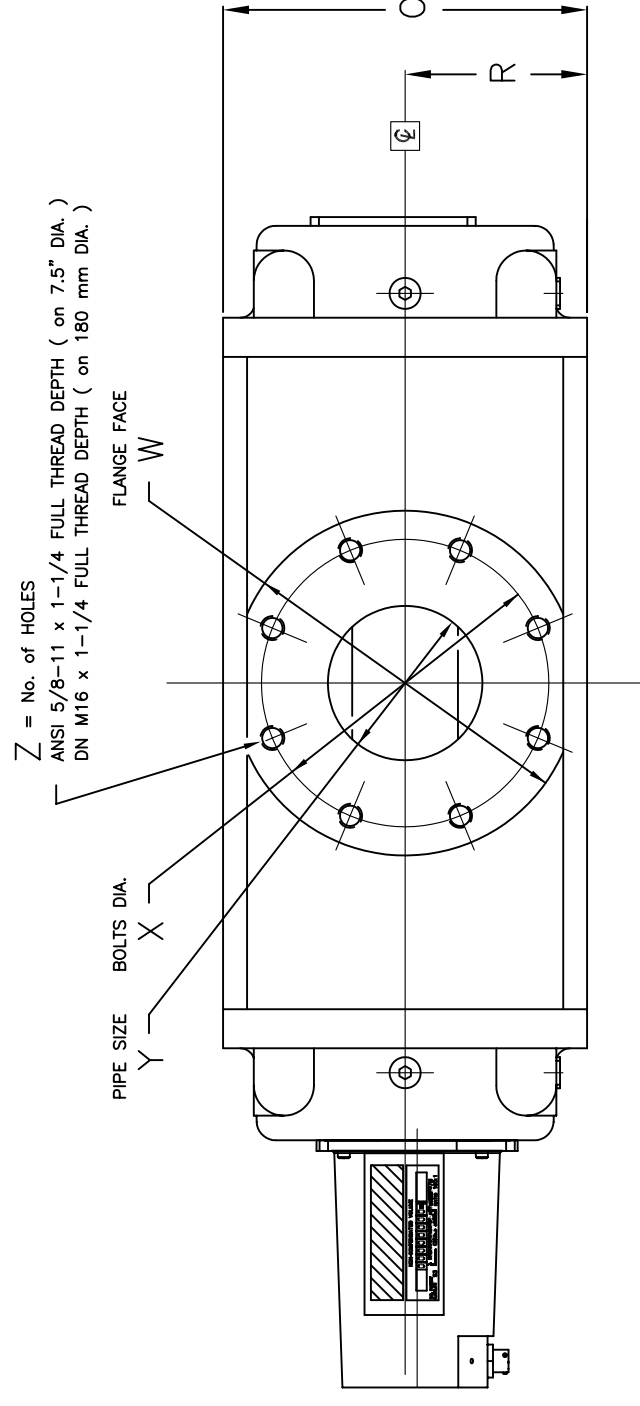
SERIES B3 ROOTS® METER

23M232, 4"

WITH ICPWS, ICPWD*/ICEX** UNIT

* CTR=DISPLACED VOLUME COUNTER

MODEL	CAPACITY		DIMENSIONS												APPROXIMATE OIL CAPACITIES		APPROX. WEIGHT		MAX. WORK PRESSURE
	UNIT		C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET	TOP INLET	WEIGHT			
23M232	cfh	23000	30 23/32	12 1/8	12	6 19/32	9 1/2	9 1/2	4 3/4	9	7 1/2	4	8	3.4 oz	21.8	100 lbs.		SEE METER NAMEPLATE OR CERTIFICATION STAMP	
G400	m ³ /h	650	781	308	305	168	241	241	121	229	180	100	8	100.5 ml	644.7 ml	46 kg.			



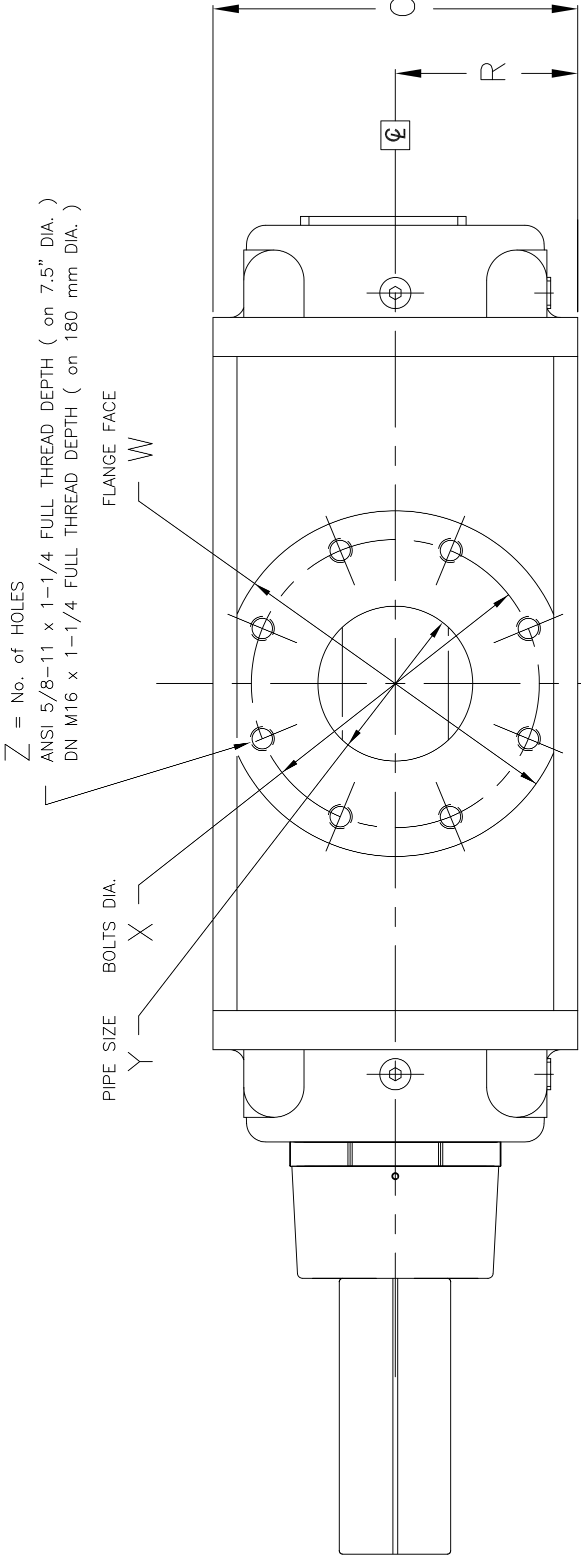
- ⊥ PERPENDICULARITY
- ⊕ FINISHES
- TRUE POSITION
- ⊙ CONCENTRICITY
- STRAIGHTNESS
- ∠ SURF. TEXTURE
- ⊘ CHAMFER
- ∠ CONDITION
- ∠ FINISH IN MICRO INCHES
- ∠ REGULARNESS OF FEATURE SIZE
- ∠ SURFACE MACHINE LOCKING
- ROUNDNESS
- ∠ PLAINNESS
- ∠ PARALLELISM
- ∠ RUNOUT
- ∠ ANGULARITY
- ∠ CYLINDRICITY

10/2003 **D057745-000**

ENGINEERING CHANGES			REV.	ECO. NO.	DATE														
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> DO NOT SCALE PRINTS. ALL DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. DEC. 8, 2000 </td> <td style="width: 50%;"> <table border="1"> <tr> <td>PROJECTION TYPE</td> <td></td> </tr> <tr> <td>MATERIAL</td> <td></td> </tr> <tr> <td>W. NO.</td> <td></td> </tr> <tr> <td>PATTERN NUMBER</td> <td></td> </tr> <tr> <td>FINISH</td> <td></td> </tr> </table> </td> </tr> <tr> <td colspan="2"> DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS, USA </td> </tr> </table>						DO NOT SCALE PRINTS. ALL DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. DEC. 8, 2000	<table border="1"> <tr> <td>PROJECTION TYPE</td> <td></td> </tr> <tr> <td>MATERIAL</td> <td></td> </tr> <tr> <td>W. NO.</td> <td></td> </tr> <tr> <td>PATTERN NUMBER</td> <td></td> </tr> <tr> <td>FINISH</td> <td></td> </tr> </table>	PROJECTION TYPE		MATERIAL		W. NO.		PATTERN NUMBER		FINISH		DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS, USA	
DO NOT SCALE PRINTS. ALL DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. DEC. 8, 2000	<table border="1"> <tr> <td>PROJECTION TYPE</td> <td></td> </tr> <tr> <td>MATERIAL</td> <td></td> </tr> <tr> <td>W. NO.</td> <td></td> </tr> <tr> <td>PATTERN NUMBER</td> <td></td> </tr> <tr> <td>FINISH</td> <td></td> </tr> </table>	PROJECTION TYPE		MATERIAL		W. NO.		PATTERN NUMBER		FINISH									
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<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"> DRESSER ROOTS METERS & INSTRUMENTS NTS 290CT03 </td> <td style="width: 33%;"> DIMENSIONAL ASSEMBLY ROOTS METER 23M232, 4" WITH ICPWX & ICEX SERIES B3 </td> <td style="width: 33%;"> TITLE </td> </tr> <tr> <td colspan="2"> DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS, USA </td> <td> DIMENSIONAL ASSEMBLY ROOTS METER 23M232, 4" WITH ICPWX & ICEX SERIES B3 </td> </tr> <tr> <td colspan="2"> DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS, USA </td> <td> TITLE DIMENSIONAL ASSEMBLY ROOTS METER 23M232, 4" WITH ICPWX & ICEX SERIES B3 </td> </tr> <tr> <td colspan="2"> DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS, USA </td> <td> TITLE DIMENSIONAL ASSEMBLY ROOTS METER 23M232, 4" WITH ICPWX & ICEX SERIES B3 </td> </tr> </table>						DRESSER ROOTS METERS & INSTRUMENTS NTS 290CT03	DIMENSIONAL ASSEMBLY ROOTS METER 23M232, 4" WITH ICPWX & ICEX SERIES B3	TITLE	DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS, USA		DIMENSIONAL ASSEMBLY ROOTS METER 23M232, 4" WITH ICPWX & ICEX SERIES B3	DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS, USA		TITLE DIMENSIONAL ASSEMBLY ROOTS METER 23M232, 4" WITH ICPWX & ICEX SERIES B3	DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS, USA		TITLE DIMENSIONAL ASSEMBLY ROOTS METER 23M232, 4" WITH ICPWX & ICEX SERIES B3		
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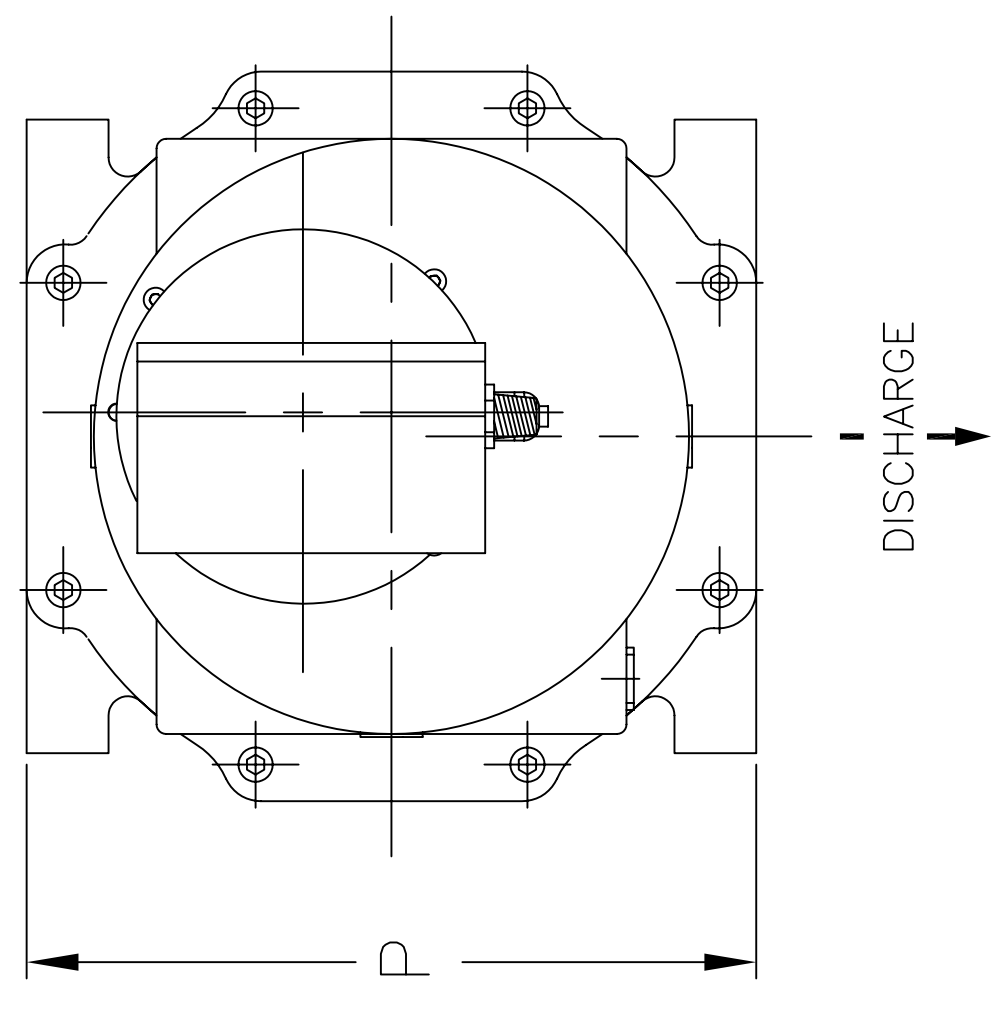
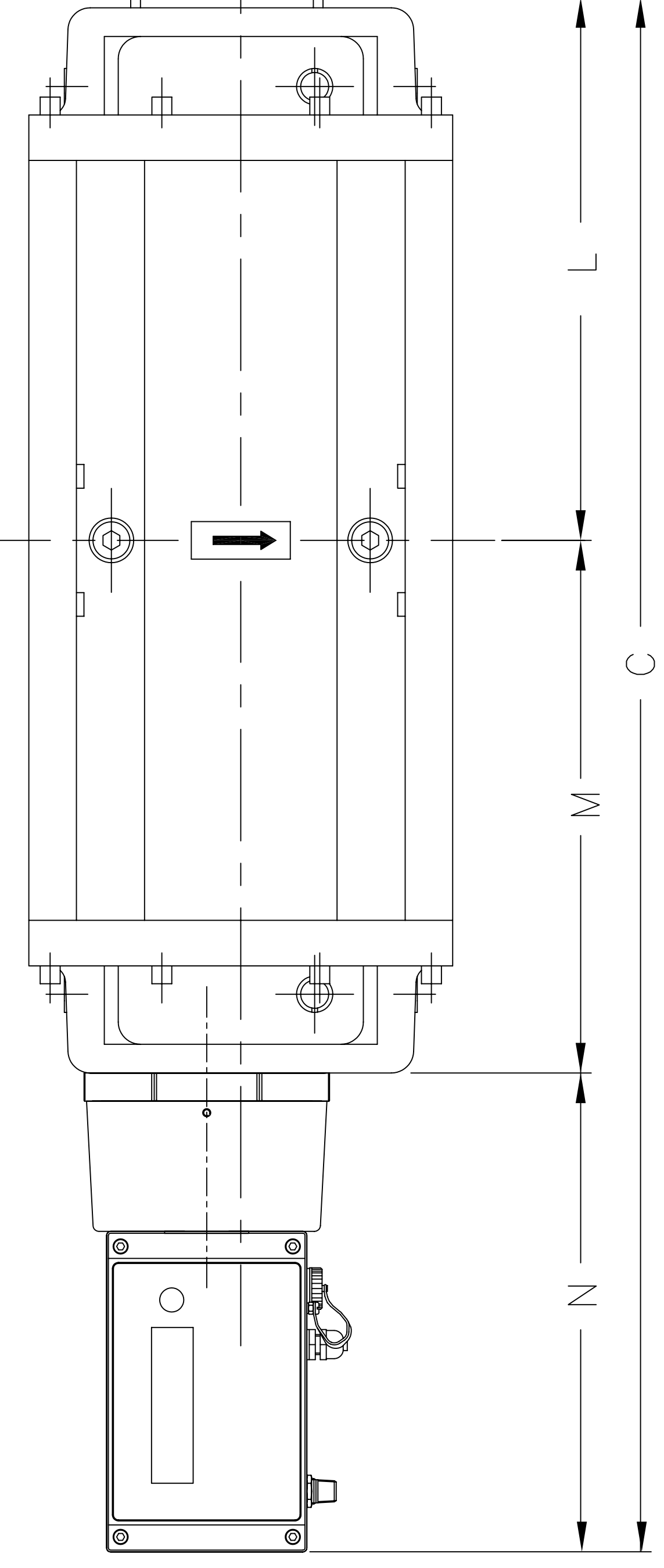
SERIES B3
ROOTS® METER
23M232, 4"
WITH IMCW OR IMCW2 *
*INTEGRAL MICRO CORRECTOR WITH WIEGAND MAG PICK-UP

MODEL	CAPACITY	UNIT	C	L	M	N	O	DIMENSIONS				APPROXIMATE OIL CAPACITIES			APPROX. WEIGHT	MAX. WORK PRESSURE		
								P	R	W	X	Y	Z	SIDE INLET			TOP INLET	
23M232	23000	cfh	23 ⁵ / ₈	12 ¹ / ₈	12	9 ¹ / ₂	9 ¹ / ₂	9 ¹ / ₂	9 ¹ / ₂	4 ³ / ₄	9	7 ¹ / ₂	4	8	3.4 oz	21.8	100 lbs.	SEE METER NAMEPLATE OR CERTIFICATION STAMP
G400	650	m ³ /h	854	308	305	241	241	241	241	121	229	180	100	8	100.5 ml	644.7 ml	46 kg.	



Z = No. of HOLES
ANSI 5/8-11 x 1-1/4 FULL THREAD DEPTH (on 7.5" DIA.)
DN M16 x 1-1/4 FULL THREAD DEPTH (on 180 mm DIA.)

SHOWN IN TOP INLET POSITION



- PERPENDICULARITY
- TRUE POSITION
- CONCENTRICITY
- POSITION TOLERANCES
- MAX. MATERIAL
- CONDITION
- ✓ FINISH IN MICRO INCHES
- ✓ FINISH IN MICROMETERS
- ✓ INDICATING MACHINE LOCATING SURFACE
- ROUNDNESS
- FLATNESS
- || PARALLELISM
- SKEWER
- ∅ DIAMETER
- ∠ ANGULARITY
- ∅ CYLINDRICITY
- ∅ TAPER
- ∅ SURFACE

02/2004 D057850-000

	DIMENSIONAL ASSEMBLY ROOTS METER 23M232, 4" WITH IMCW/IMCW2 SERIES B3	CHECKED BY: DATE: 10FEB04 SCALE: NTS	DESIGNED BY: DATE: SCALE:	DRAWING NUMBER D057850-000
THIS DRAWING SHOWS CORRECTED INFORMATION OF THE INSTRUMENT AND IS VALID AS LONG AS IT IS USED WITH THE SAME MODEL AND PART NUMBER. NO CHANGES TO THIS DRAWING ARE TO BE MADE. ANY CHANGES TO THIS DRAWING MUST BE APPROVED BY THE ORIGINAL DRAWING ENGINEER. THE USER OF THIS DRAWING IS RESPONSIBLE TO READ IT CAREFULLY AND TO VERIFY THAT IT IS THE CORRECT DRAWING FOR THE INSTRUMENT TO BE USED.				
DO NOT SCALE PRINTS. BREAK ALL SHARP EDGES. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DEC. ±.005 FRAC. ±1/64				
DRESSER ROOTS METERS & INSTRUMENTS Dresser Measurement HOUSTON, TEXAS USA				

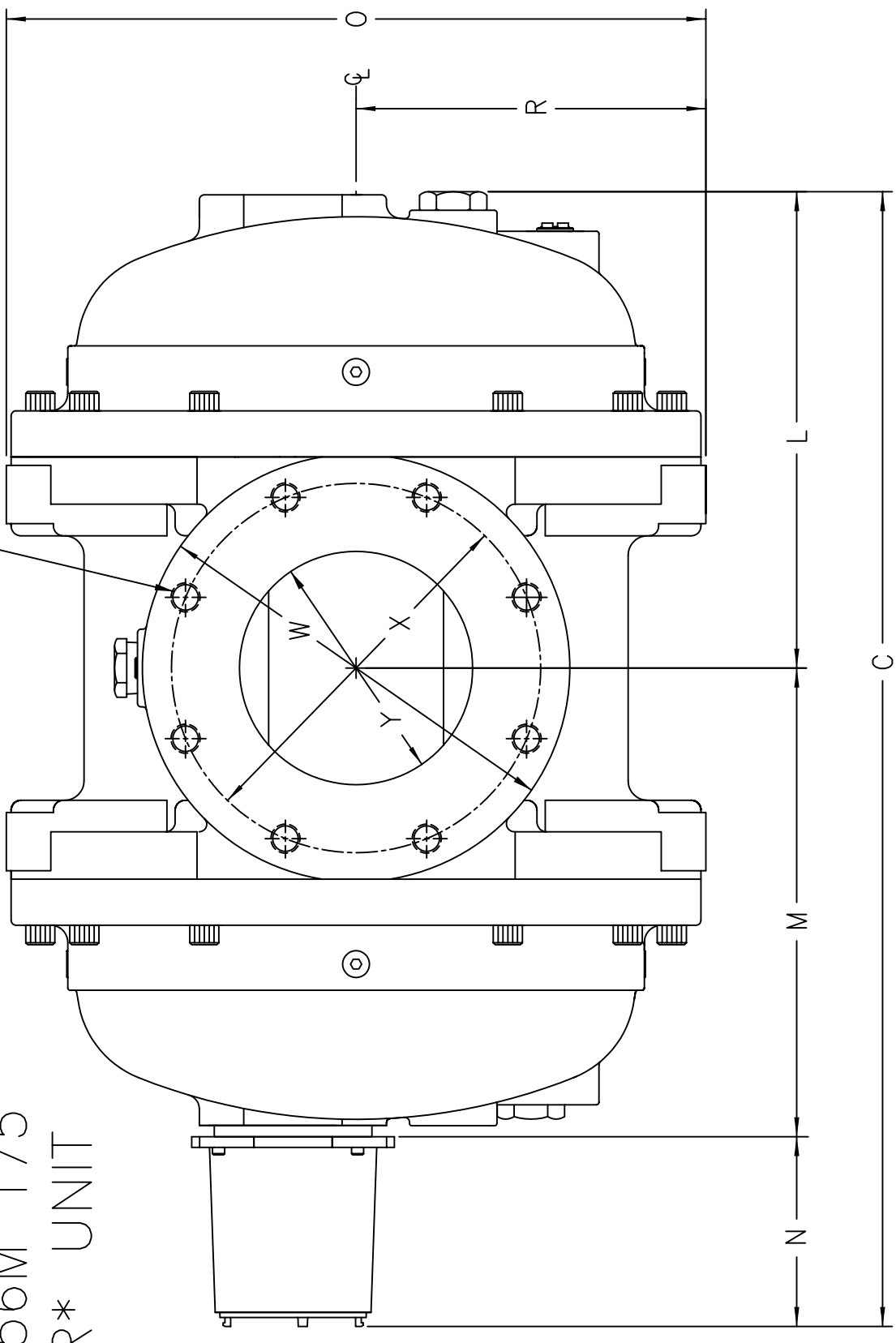
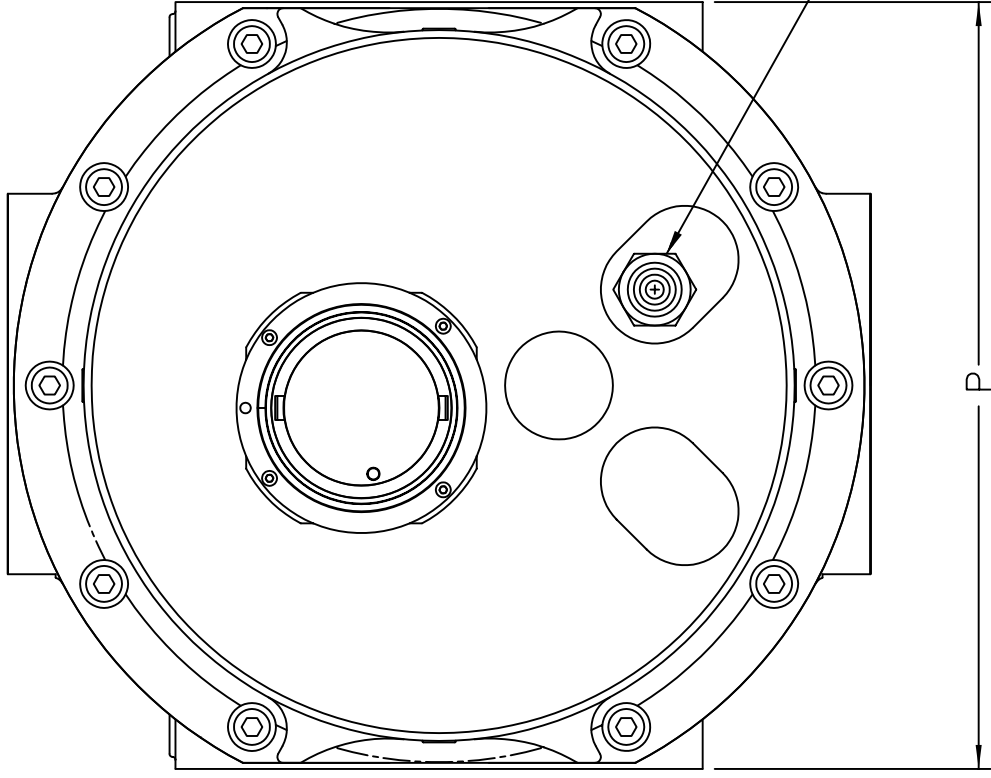
MODEL	CAPACITY	UNIT	DIMENSIONS												APPROX. WEIGHT	MAX. WORK PRESSURE					
			C	L	M	N	O	P	R	W	X	Y	Z	APPROXIMATE OIL CAPACITIES							
			IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	TOP	INLET				
23M 175	23000	cfh	29	3/16	12	1/4	12	1/16	4	7/8	18	16	9	11	9	1/2	6	8	40.2 oz.	154 oz.	204 lbs.
	651	m ³ /h		mm	306	311	306	124	457	457	457	406	229	279	240	152	152	8	1189 ml.	4554 ml.	93 kg.
38M 175	38000	cfh	34	5/8	14	31/32	14	25/32	4	7/8	18	18	9	11	9	1/2	6	8	40.2 oz.	154 oz.	246 lbs.
	1076	m ³ /h		mm	879	380	375	124	457	457	457	457	229	279	240	152	152	8	1189 ml.	4554 ml.	112 kg.
56M 175	56000	cfh	38	1/32	16	31/32	16	15/32	4	7/8	18	21	9	13	1/2	11	3/4	8	40.2 oz.	154 oz.	285 lbs.
	1586	m ³ /h		mm	966	431	418	124	457	457	533	229	229	343	295	203	203	8	1189 ml.	4554 ml.	130 kg.

SEE METER NAMEPLATE OR CERTIFICATION STAMP

SERIES B3
ROOTS® METER
23M/38M/56M 175
WITH CTR* UNIT

*CTR=DISPLACED VOLUME COUNTER

3/4-10 X 1 5/8 FULL THREAD DEPTH
Z = NO. OF HOLES



09/2000 D054750-001

REV. ECO. NO. DATE	A	7844	10JUL00
ENGINEERING CHANGES			
MATERIAL			
ITEM NUMBER			
PART NUMBER			
FINISH			
ROOTS METERS & INSTRUMENTS	DMD-Roots DIVISION PRECISION INSTRUMENTS, INC. HOUSTON, TEXAS, USA		
TITLE	DIMENSIONAL ASSEMBLY TOM ROOTS® METER 23/38/56M 175 S.I. WITH CTR		
SCALE	1:2	DATE	23SEP99
DESIGNED BY	WJL	CHECKED BY	WJL
DRAWING NUMBER	D054750-001		

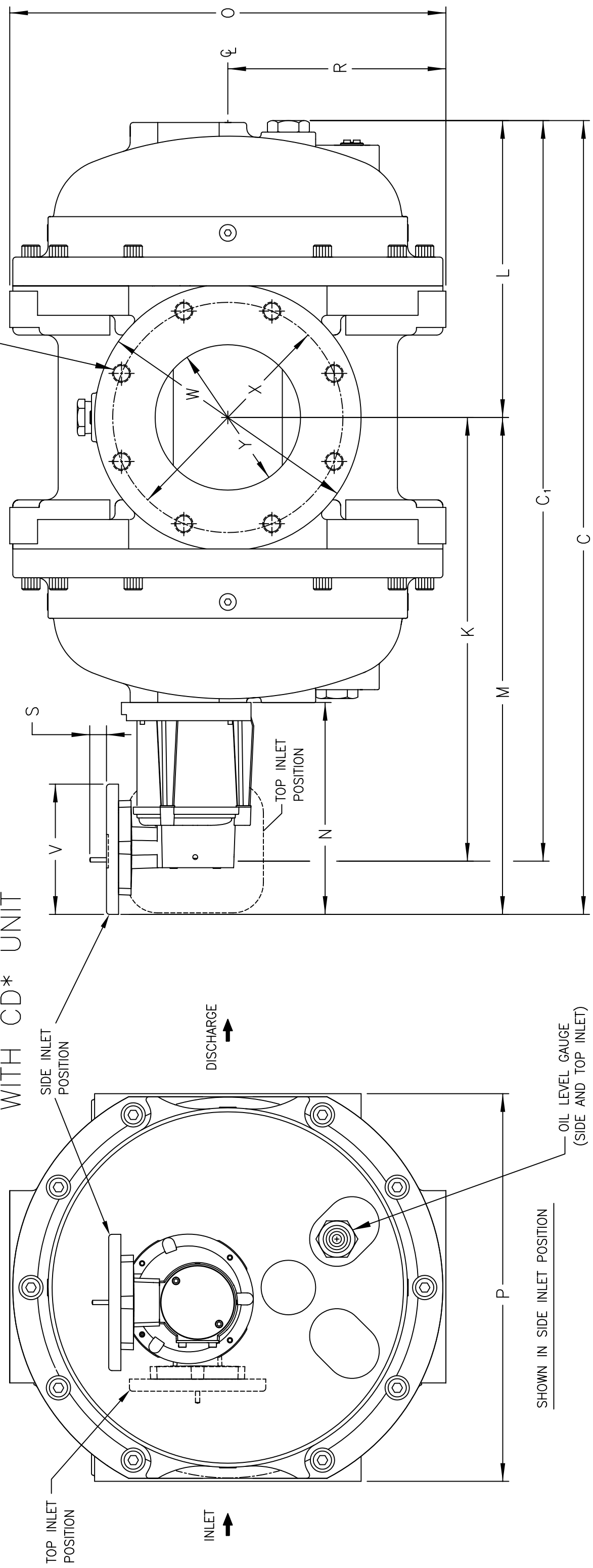
DO NOT SCALE PRINTS.
BREAK ALL SHARP EDGES.
DIMENSIONS UNLESS OTHERWISE SPECIFIED.
FRACTIONS: 1/8" MIN. 1/16" MAX.

MODEL	CAPACITY	UNIT	DIMENSIONS																APPROX. WEIGHT	MAX. WORK PRESSURE			
			C	C ₁	K	L	M	N	O	P	R	S	V	W	X	Y	Z	APPROXIMATE OIL CAPACITIES					
			IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	TOP	INLET		
23M 175	23000	cfh	33	28 3/4	15 1/2	12 1/4	20 3/4	8 11/16	18	16	9	11/16	5 3/8	11	9 1/2	6	8	40.2 oz.	154 oz.			205 lbs.	SEE METER NAMEPLATE OR CERTIFICATION STAMP
G400	651 m ³ /h	mm	838	730	393.7	311.2	527	221	457	406	229	17.5	137	279	241	152	8	1189 ml.	4554 ml.			93 kg.	
38M 175	38000	cfh	38 3/16	33 15/16	18 7/32	14 31/32	23 7/32	8 11/16	18	18	9	11/16	5 3/8	11	9 1/2	6	8	40.2 oz.	154 oz.			247 lbs.	SEE METER NAMEPLATE OR CERTIFICATION STAMP
G650	1076 m ³ /h	mm	967	862	463.7	380	590	221	457	457	229	17.5	137	279	241	152	8	1189 ml.	4554 ml.			112 kg.	
56M 175	56000	cfh	42 1/2	37 27/32	20 29/32	16 31/32	25 17/32	8 11/16	18	21	9	11/16	5 3/8	13 1/2	11 3/4	8	8	40.2 oz.	154 oz.			287 lbs.	SEE METER NAMEPLATE OR CERTIFICATION STAMP
G1000	1585 m ³ /h	mm	108	961	531	431	649	221	457	533	229	17.5	137	343	295	203	8	1189 ml.	4554 ml.			130 kg.	

SERIES B3
ROOTS® METER
23M(G400)/38M(G650)/56M(G1000)
WITH CD* UNIT

*CD = DISPLACED VOLUME COUNTER WITH INSTRUMENT DRIVE

3/4-10 X 1 5/8 FULL THREAD DEPTH
Z = NO. OF HOLES



09/2000 D054433-001

REV	ECC. NO.	DATE	ENGINEERING CHANGES
A	7844	10JUL00	

MATERIAL			
QTY			
PATTERN NUMBER			
FINISH			
DMD DIVISION	MEASUREMENT OPERATION		
INDUSTRIAL DIVISION	INDUSTRIAL DIVISION		
DO NOT SCALE PRINTS. DIMENSIONS GIVEN IN PARENTHESES UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS ±.005 FRACTIONS ±1/64			
TITLE: DIMENSIONAL ASSEMBLY			
ROOTS® METER			
23/38/56M 175 W/CD S.I.			
SERIES B3			
DESIGNED	BY	DATE	
CHECKED	BY	DATE	
APPROVED	BY	DATE	
1:2	23SEP98	EG07758	D054433-001
RELEASED			

MODEL	CAPACITY	UNIT	DIMENSIONS													APPROX. WEIGHT	MAX. WORK PRESSURE				
			C	L	M	N	O	P	R	W	X	Y	Z	APPROXIMATE OIL CAPACITIES							
			IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	TOP	INLET	
23M 175	23000	cfh	30	762	12 1/4	315	12 1/16	305	6 19/32	173	16	406	9	229	11	279	9 1/2	240	6	154 oz.	204 lbs.
G400	651	m ³ /h	785	311	311	306	306	168	168	457	406	279	229	279	279	279	240	152	152	4554 ml.	93 kg.
38M 175	38000	cfh	36	914	14 31/32	375	14 25/32	375	6 19/32	173	18	457	9	229	11	279	9 1/2	240	6	154 oz.	246 lbs.
G650	1076	m ³ /h	923	380	380	375	375	168	168	457	457	279	229	279	279	279	240	152	152	4554 ml.	112 kg.
56M 175	56000	cfh	39	991	16 15/16	418	16 15/32	418	6 19/32	173	21	533	9	229	13 1/2	343	11 3/4	295	8	154 oz.	285 lbs.
G1000	1586	m ³ /h	1006	430	430	418	418	168	168	457	533	229	229	343	343	295	203	203	203	4554 ml.	130 kg.

SEE METER NAMEPLATE OR CERTIFICATION STAMP

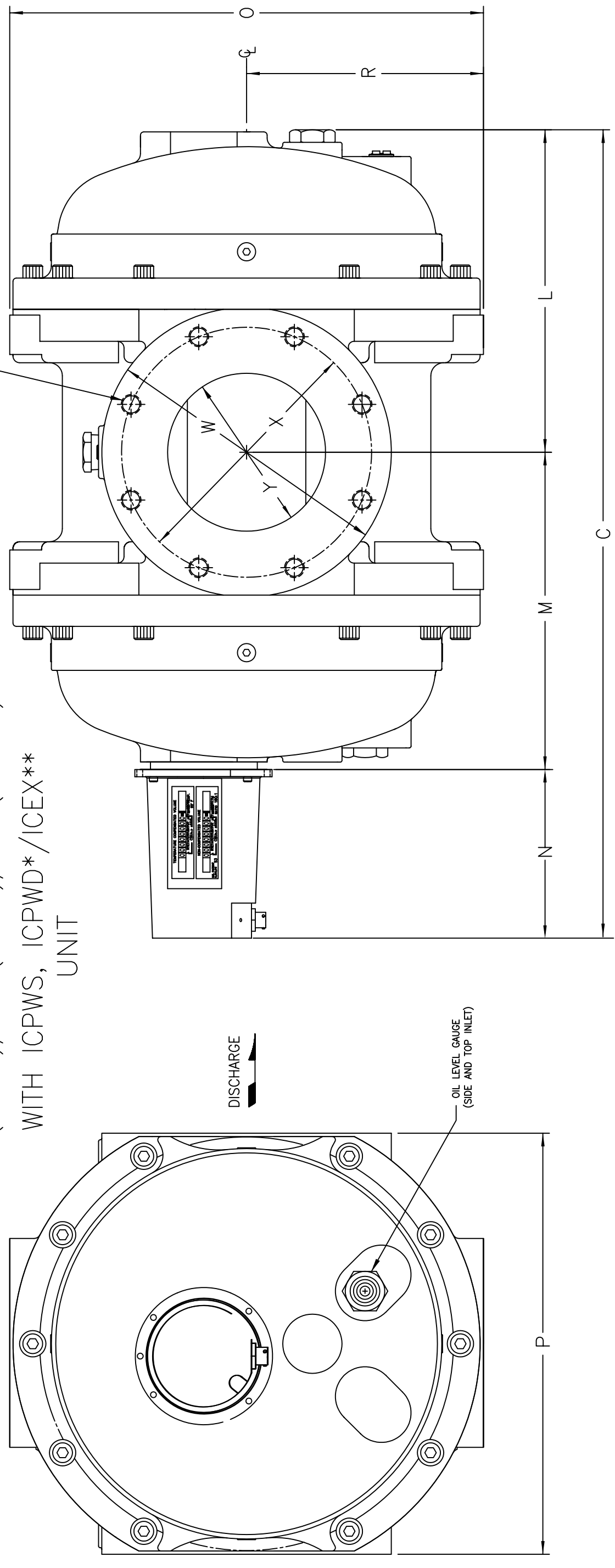
SERIES B3
ROOTS® METER

23M(G400)/38M(G650)/56M(G1000)

WITH ICPWS, ICPWD*/ICEX**
UNIT

*ICPWS, ICPWD=DISPLACED VOLUME COUNTER PULSER
**ICEX=UNCOMPENSATED COUNTER ELECTRONIC TRANSMITTER

3/4-10 X 1 5/8 FULL THREAD
Z = NO. OF HOLES



SHOWN IN SIDE INLET POSITION

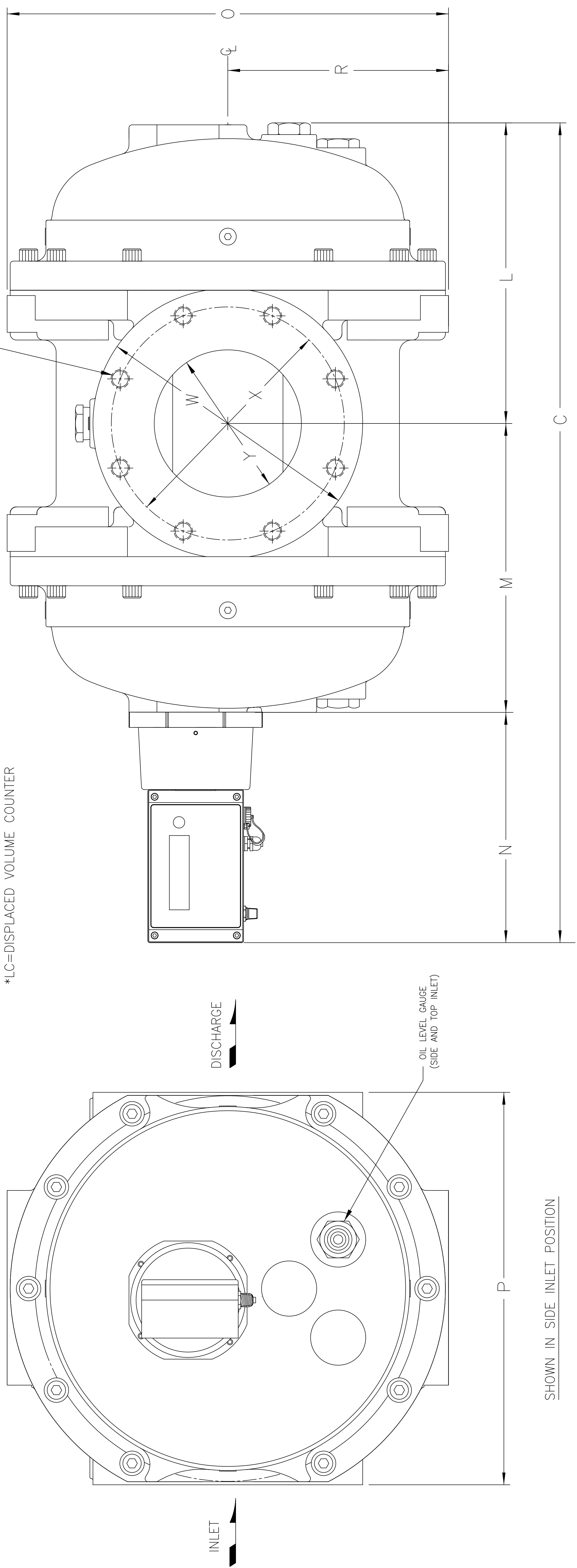
09/2003 D057701-000

REV.	ECO. NO.	DATE	ENGINEERING CHANGES	MATERIAL	DRESSER ROOTS METERS & INSTRUMENTS	DO NOT SCALE PRINTS. DIMENSIONS UNLESS OTHERWISE SPECIFIED. TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. ±.005 FRACTION ±1/64	TITLE	DIMENSIONAL ASSEMBLY
					Dresser Measurement <td></td> <td>ROOTS® METER <td></td> </td>		ROOTS® METER <td></td>	
					Dresser Measurement <td></td> <td>23/38/56M 175 S.I. <td></td> </td>		23/38/56M 175 S.I. <td></td>	
					Dresser Measurement <td></td> <td>WITH ICPWS/ICPWD/ICEX <td></td> </td>		WITH ICPWS/ICPWD/ICEX <td></td>	
					Dresser Measurement <td></td> <td>SERIES B3 <td></td> </td>		SERIES B3 <td></td>	
					Dresser Measurement <td></td> <td>DRAWING NUMBER <td>D057701-000</td> </td>		DRAWING NUMBER <td>D057701-000</td>	D057701-000
					Dresser Measurement <td></td> <td>SCALE <td>1:2</td> </td>		SCALE <td>1:2</td>	1:2
					Dresser Measurement <td></td> <td>DATE <td>15SEP03</td> </td>		DATE <td>15SEP03</td>	15SEP03
					Dresser Measurement <td></td> <td>APPROVED <td></td> </td>		APPROVED <td></td>	
					Dresser Measurement <td></td> <td>RELEASED <td></td> </td>		RELEASED <td></td>	

TQM ROOTS® METER 23M/38M/56M 175 WITH IMC/W OR IMCW2

MODEL	CAPACITY		DIMENSIONS													APPROX. OIL CAPACITY		APPROX. WEIGHT		MAX. WORK PRESSURE
	UNIT	C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET	TOP INLET	204 lbs.	93 kg.				
23M 175	IN	33 9/16	12 1/4	12 1/16	9 1/4	18	16	9	11	9 1/2	6	8	2.8 PINTS	10 PINTS	204 lbs.					
38M 175	mm	853	311	306	235	457	406	229	279	240	152	8	2.8 PINTS	10 PINTS	93 kg.					
	IN	39	14 31/32	14 25/32	9 1/4	18	18	9	11	9 1/2	6	8	2.8 PINTS	10 PINTS	246 lbs.					
56M 175	mm	991	380	375	235	457	457	229	279	240	152	8	2.8 PINTS	10 PINTS	112 kg.					
	IN	42 13/32	16 31/32	16 15/32	9 1/4	18	21	9	13 1/2	11 3/4	8	8	2.8 PINTS	10 PINTS	285 lbs.					
	mm	1077	431	418	235	457	533	229	343	295	203	8	2.8 PINTS	10 PINTS	130 kg.					

SEE METER
NAMEPLATE OR
CERTIFICATION
STAMP



3/4-10 X 1 5/8 FULL THREAD DEPTH
Z = NO. OF HOLES

*LC=DISPLACED VOLUME COUNTER

SHOWN IN SIDE INLET POSITION

10/03 D057732-000

REV.	ECO. NO.	DATE	ENGINEERING CHANGES	MATERIAL	FINISH	PATTERN NUMBER	JIG NUMBER

NO.	DATE	DESCRIPTION	BY	CHKD	APPROVED
1	2100T03	RELEASED			
2	2100T03	REDESIGNED			
3	2100T03	REVISED			
4	2100T03	ISSUED			

DMD DIVISION		MEASUREMENT OPERATION	

DO NOT SCALE PRINTS.	

TITLE	DIMENSIONAL ASSEMBLY
TQM ROOTS® METER	
23/38/56M 175 S.I.	
FOR IMC/W OR IMCW2	

SCALE	DRAWING NUMBER
1:2	D057732-000

DRESSER MEASUREMENT DIVISION

DRESSER INDUSTRIES, INC.
HOUSTON, TEXAS, U.S.A.

DIMENSIONS IN INCHES

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	O	P	R	X	Y	NO. HOLES	TAP	DEPTH	AY	CL
23M125	14	20	1/4	31	1/16	8	11	1/16	3	1/4	4	4	1/8	14	1/4	16	13	1/16	16	1/2	1/8	6	IN 12
38M125	17	1/4	24	1/16	34	1/8	9	1/8	3	1/4	4	1/2	14	3/16	19	5/16	11	1/2	8	3/4	1/8	6	IN 15 1/16
56M125	19	3/4	28	39	9/16	9	8	7/8	11	5/16	15	1/16	17	1/16	21	7/8	22	1/2	21	12	1/8	8	IN 18
102M125	27	37	49	1/16	11	3/4	12	16	1/8	7	6	1/2	22	7/16	26	5/8	29	1/16	28	15	3/4	10	IN 24

MODEL	APPROX. OIL CAP	APPROX. WEIGHT
23M125	23.5 FL.OZ.	475 LBS.
38M125	72.5 FL.OZ.	675 LBS.
56M125	91.5 FL.OZ.	1050 LBS.
102M125	194 FL.OZ.	2335 LBS.

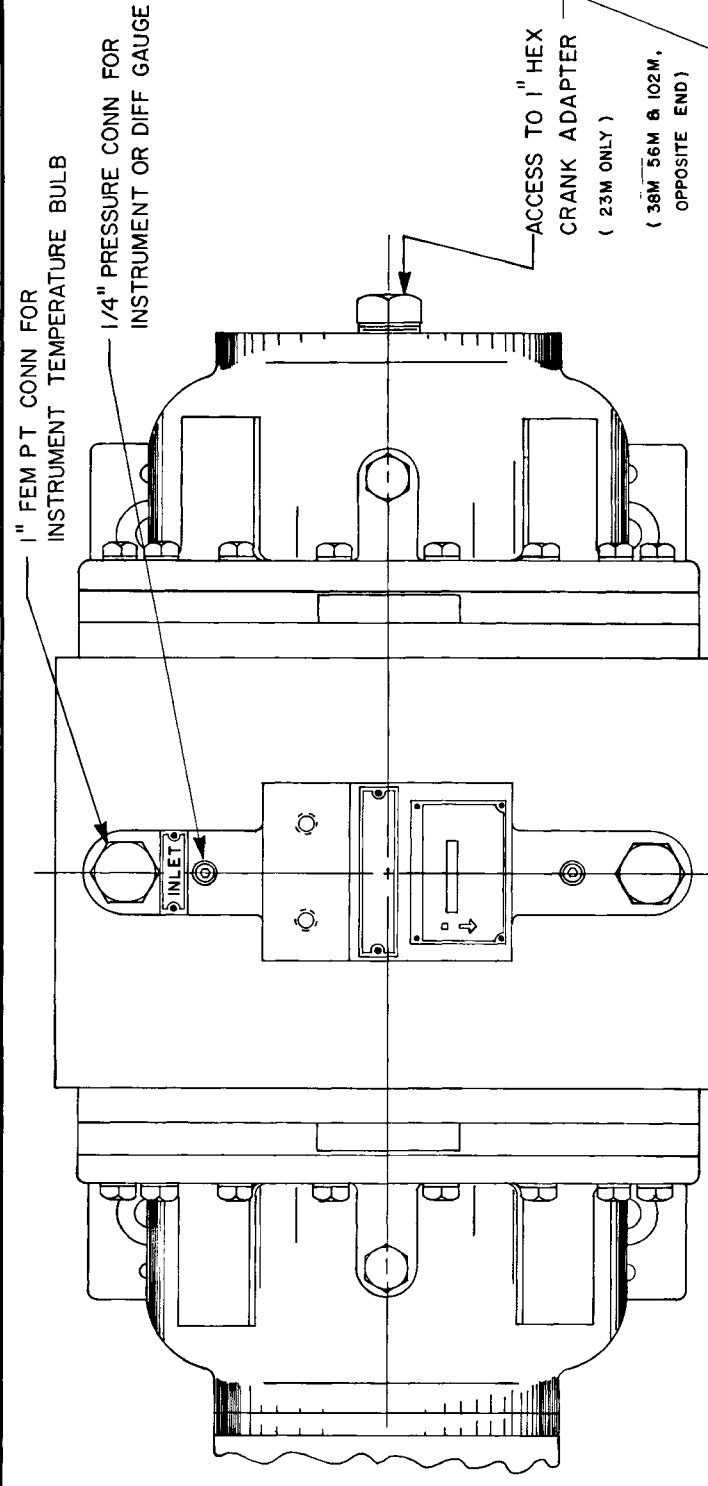
CUSTOMER _____ **OUR ORDER NO.** _____

DATE _____ **BY** _____

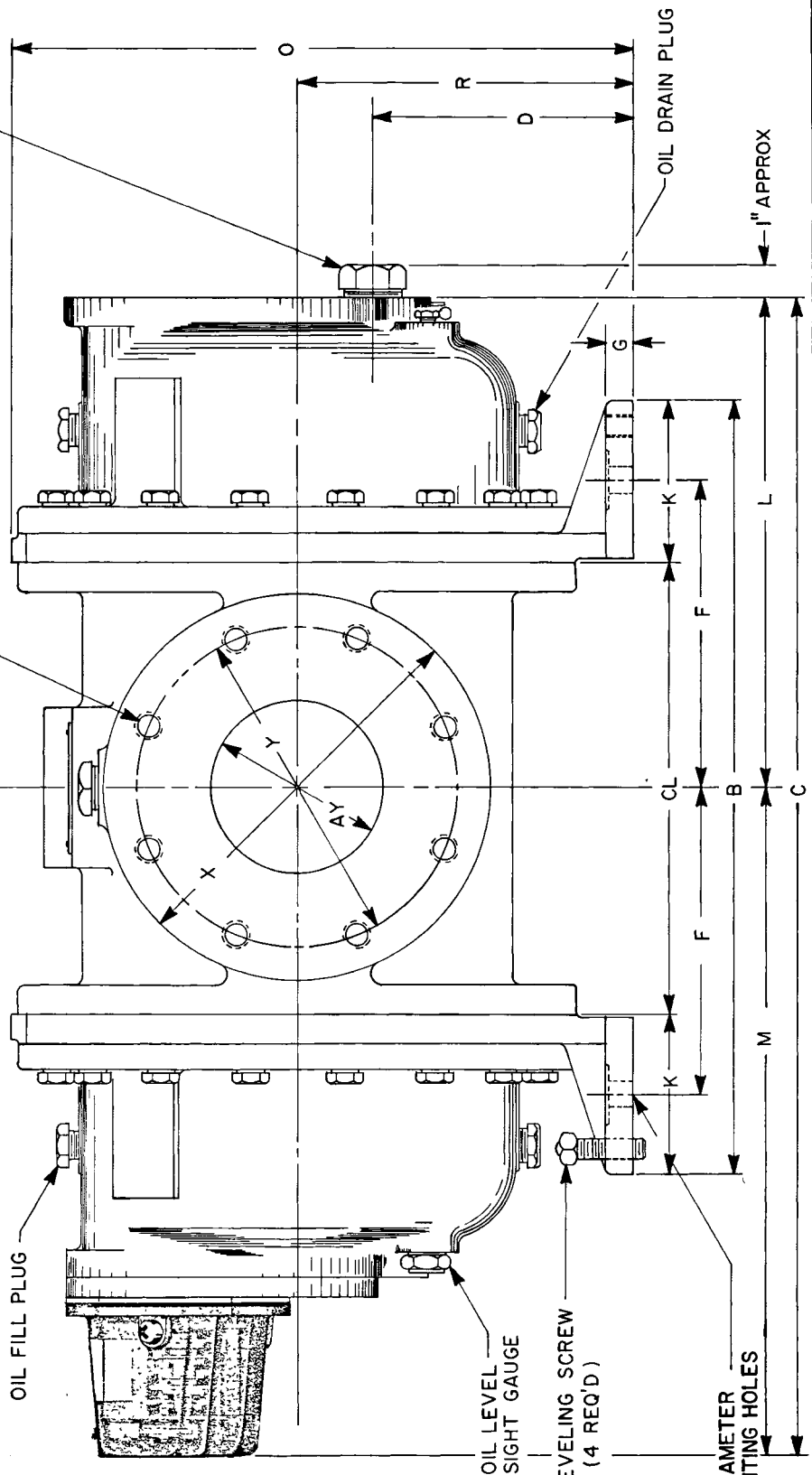
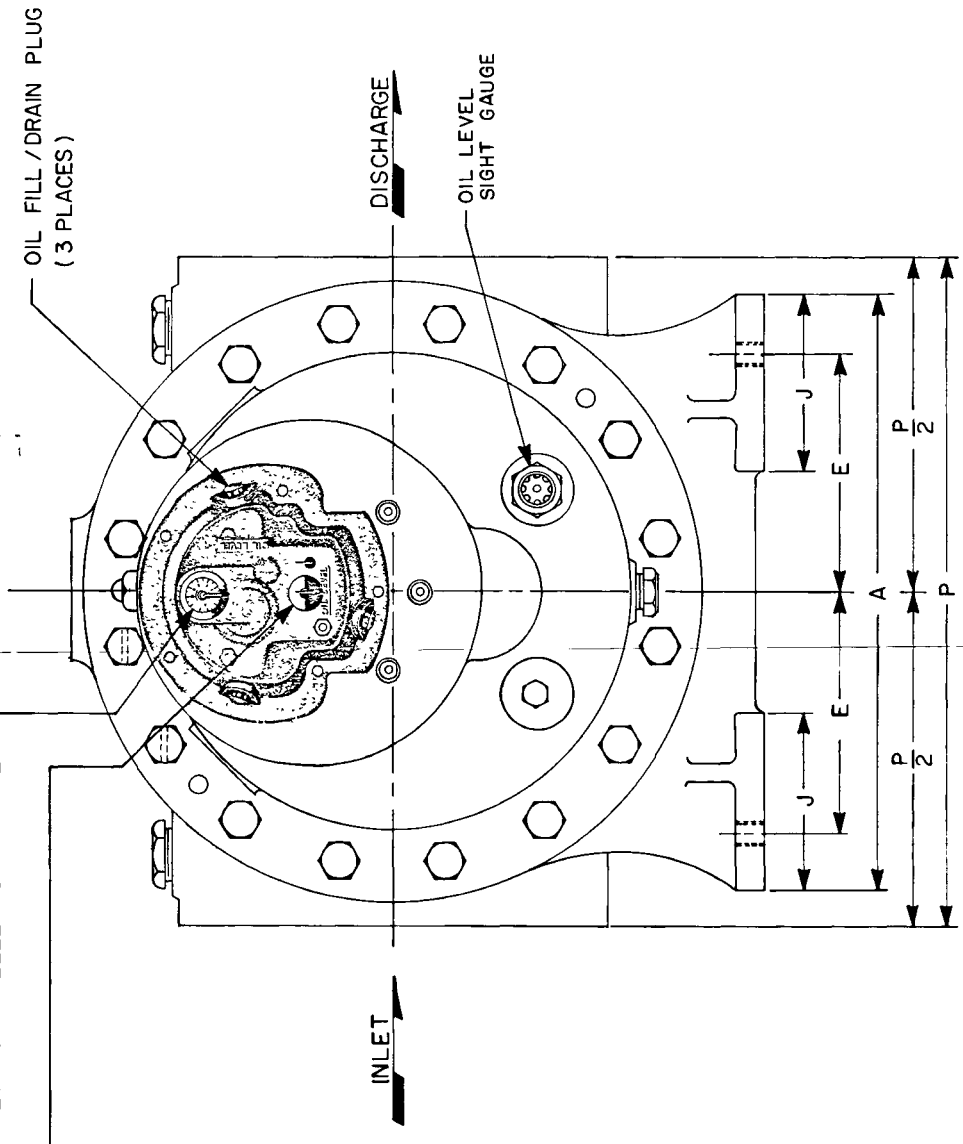
DIAL INFORMATION

- ① STD 1 REV = 100 CU. FT (ALL SIZES)
- METRIC 1 REV = 10 m³ (23M & 38M)
- METRIC 1 REV = 10 0 m³ (56M & 102M)

- ② REV = 1 IMPELLER SHAFT REV



"Z" NO. SIZE & MINIMUM DEPTH OF TAPPED HOLES 125 LB CAST IRON DRILLING



D048878 - 000

10/81

DO NOT SCALE PRINTS
REMOVE SURFS
BREAK ALL SHARP EDGES
UNLESS OTHERWISE SPECIFIED
MFG = 008 PMA 7/16, ANG 250°
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED

DRESSER MEASUREMENT DIVISION
DRESSER INDUSTRIES, INC.
HOUSTON, TEXAS, U.S.A.

DIMENSIONAL ASSEMBLY
125 FM - MC W/COUNTER

DATE 12-5-80
DRAWN BY 774
CHECKED BY 774
APPROVED BY 774

DRAWING NUMBER D048878-000

SCALE 1/2

REVISIONS

NO. REV. DATE

1 12-5-80

2 12-5-80

3 12-5-80

4 12-5-80

5 12-5-80

6 12-5-80

7 12-5-80

8 12-5-80

9 12-5-80

10 12-5-80

11 12-5-80

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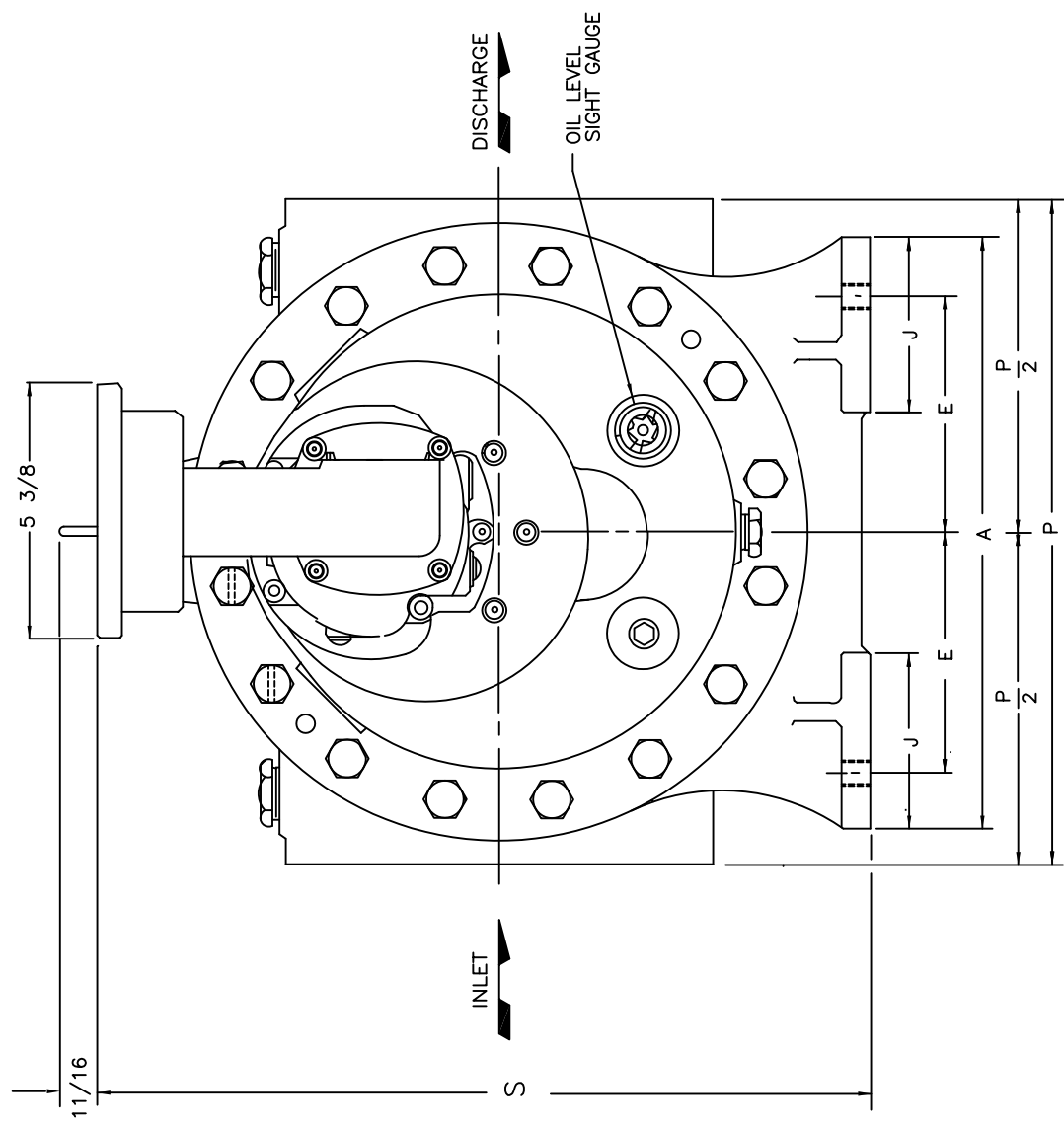
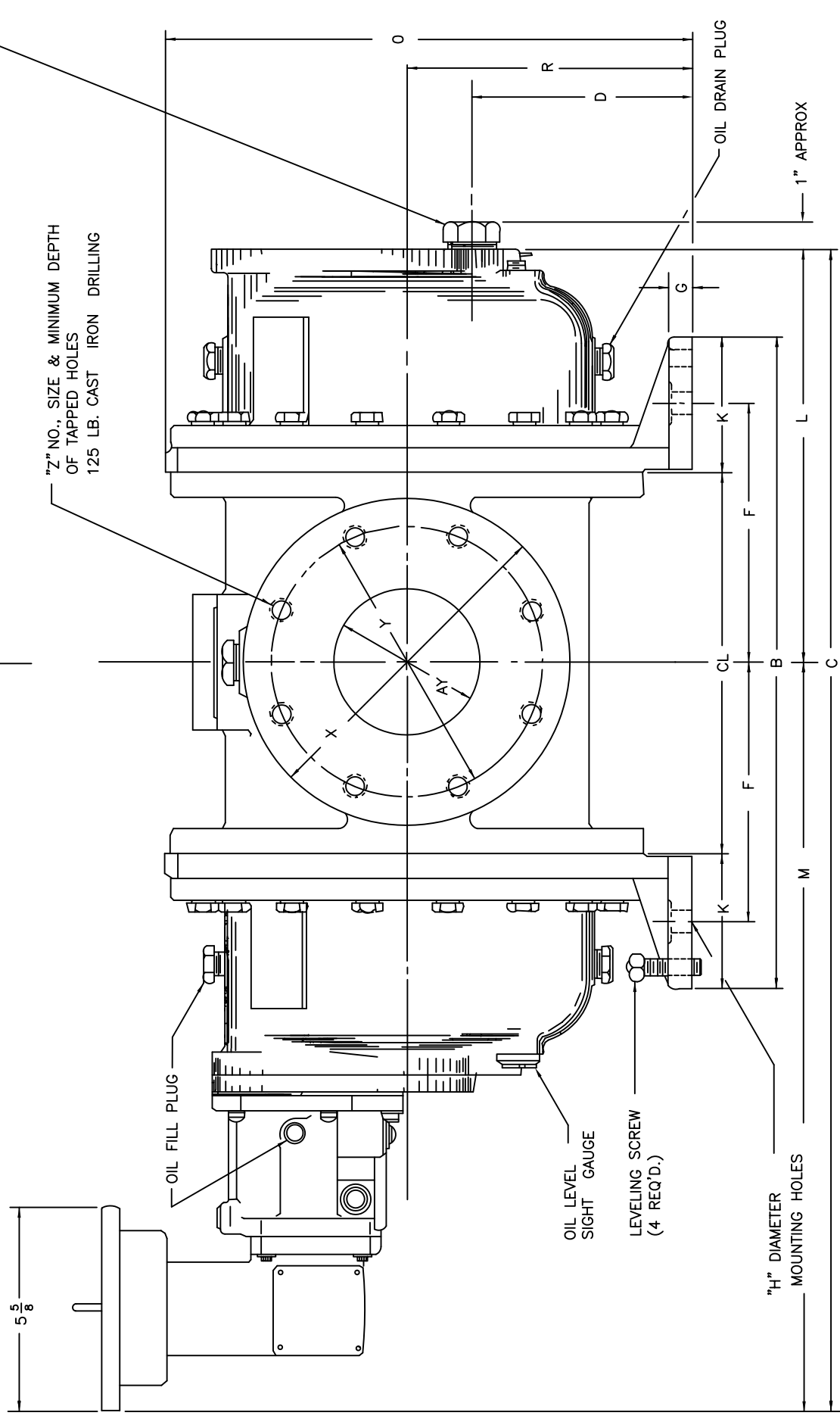
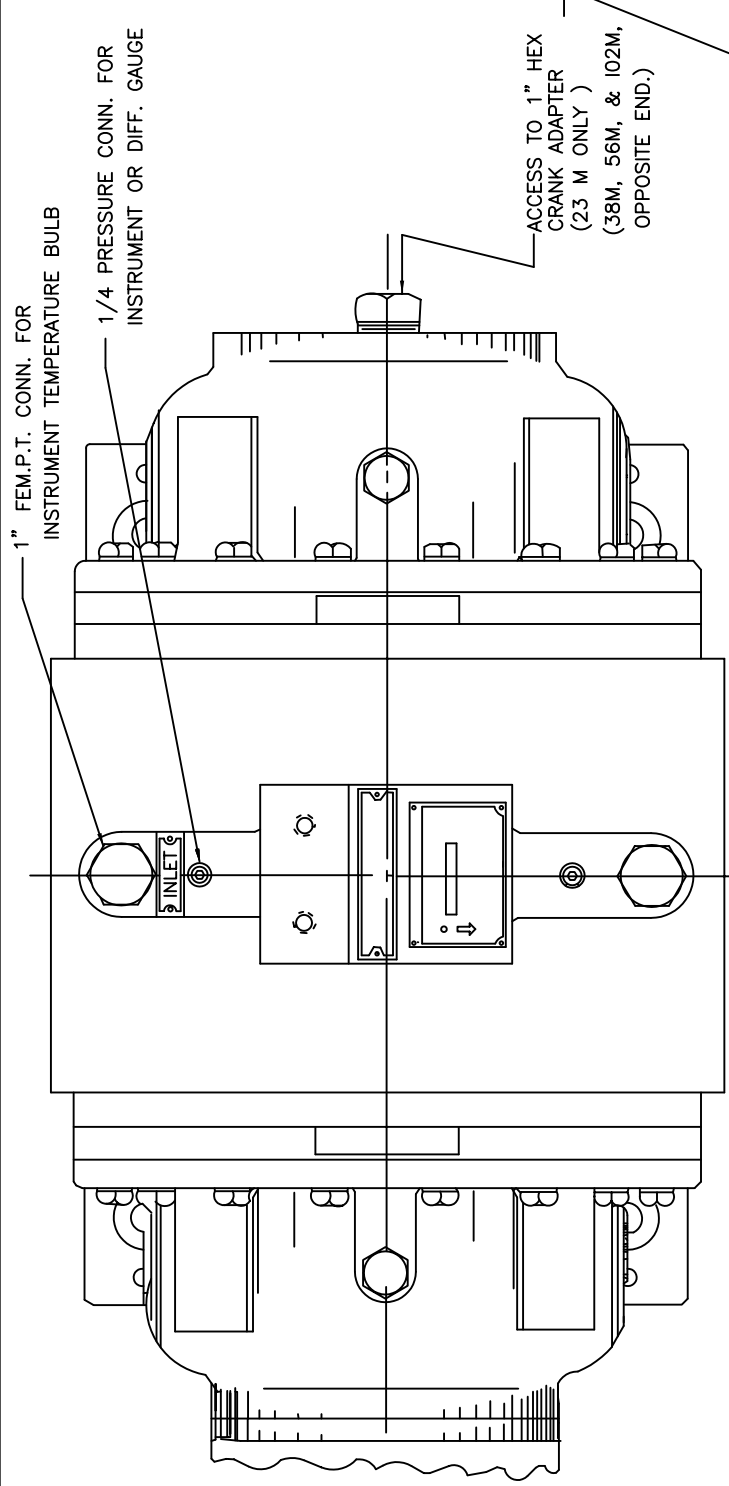
100 12-5-80

MODEL	DIMENSIONS IN INCHES																																						
	A	B	C	D	E	F	G	H	J	K	L	M	O	P	R	S	X	Y	NO. HOLES	Z	TAP	DEPTH	AY	CL															
23M125	14	20	1/4	36	1/16	7	5	7/8	8	11/16	3/4	4	4	1/8	13	11/16	22	3/8	16	1/2	16	9	18	3/16	11	9	1/2	8	3/4-10	1	1/8	6	IN.	12					
38M125	17	1/4	24	1/16	38	1/2	8	7	5/8	9	21/32	3/4	7/8	4	5/8	4	1/2	14	13/32	24	3/32	19	3/8	18	10	1/2	20	3/16	11	9	1/2	8	3/4-10	1	1/8	6	IN.	15	1/16
56M125	19	3/4	28	44	9/16	9	8	7/8	11	5/16	13/16	1	5	5	17	1/8	27	7/16	22	1/2	21	12	22	3/16	13	1/2	11	3/4	8	3/4-10	1	1/8	8	IN.	18				
102M125	27	37	54	1/16	11	3/4	12	16	1/8	7/8	1	1/8	6	6	1/2	21	7/8	32	3/16	29	11/16	28	15	3/4	26	15/16	16	14	1/4	12	7/8-9	1	1/8	10	IN.	24			

MODEL	APPROX. OIL CAP.	APPROX. WEIGHT
23M125	23.5 FL. OZ.	475 LBS.
38M125	72.5 FL. OZ.	675 LBS.
56M125	91.5 FL.OZ.	1050 LBS.
102M125	194 FL.OZ.	2335 LBS.

CUSTOMER _____ OUR ORDER NO. _____
 CUST. ORDER NO. _____ BY _____
 DATE _____

DRIVE RATE:
 1 REV. = 100 CU. FT.



11/95 D048879-000

DO NOT SCALE PRINTS. BREAK ALL SHARP EDGES. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. FINISH: 303. FRACTION: 1/64.

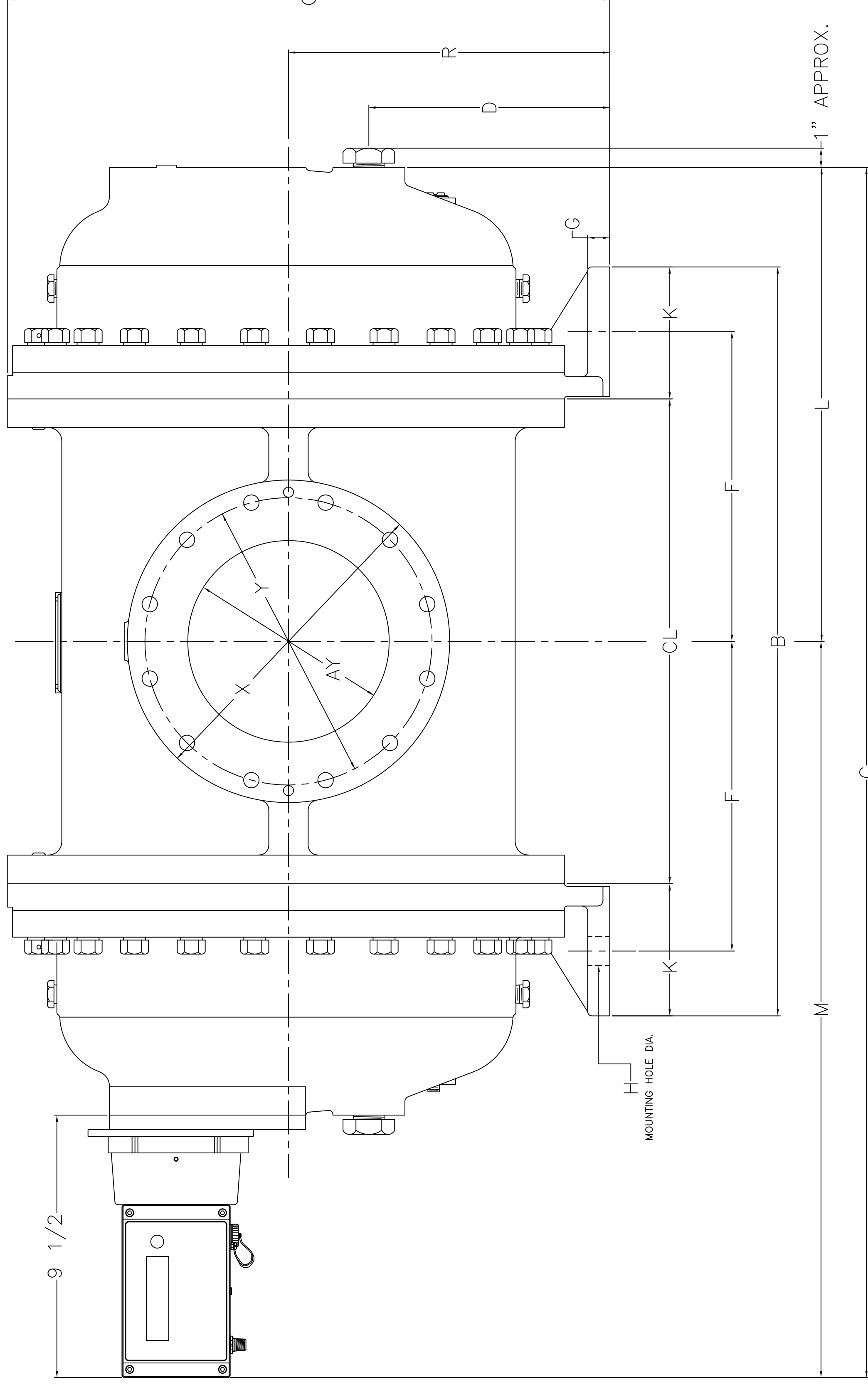
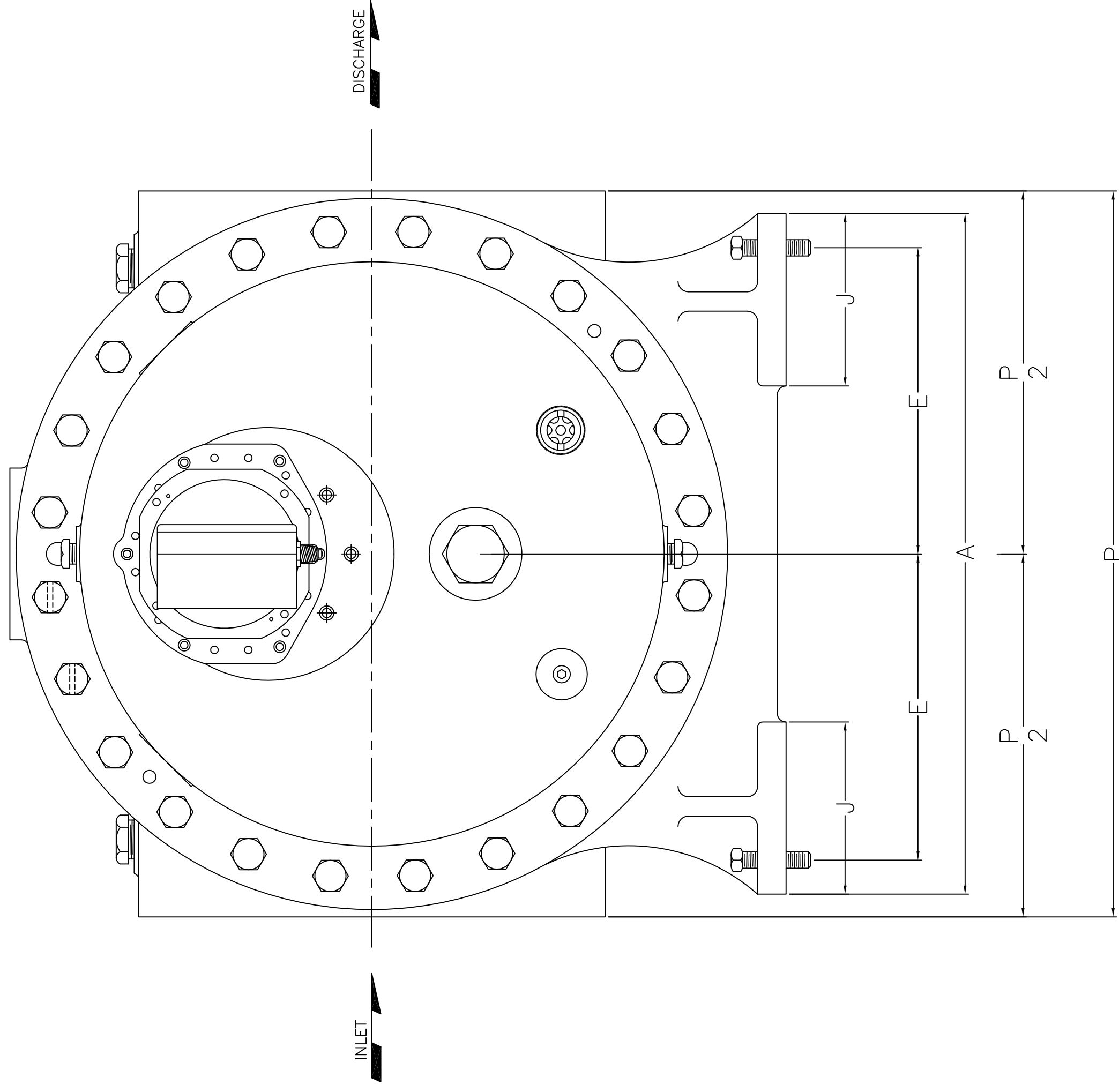
DMD DIVISION
 MEASUREMENT OPERATION
 HOUSTON, TEXAS, U.S.A.

DRIVING CHAINERS
 REV. ECO. NO. DATE
 A 5643 12-16-75
 B 6054 9-23-80
 C 6128 8-28-81
 D 6735 8-16-88
 E 7219 11-1-95
 F 7347 04-02-96

DESIGNED BY J. J. JAMES
 CHECKED BY G. J. JAMES
 DATE 12-5-80
 SCALE 1/2
 DRAWING NUMBER D048879-000

DIMENSIONS IN INCHES - APPROX

MODEL	DIMENSIONS IN INCHES - APPROX																APPROX. OIL CAPACITY	APPROX. WEIGHT						
	A	B	C	D	E	F	G	H	J	K	L	M	O	P	R	X			Y	No HOLES	TAP	DEPTH	AY	CL
23M125	14	20 1/4	36 7/8	7	5 7/8	8	11/16	3/4	4	4 1/8	14 1/4	22 5/8	16 1/2	16	9	11	9 1/2	8	3/4-10	1 1/8	6 IN	12	23.5 flo.oz.	475 lbs.
38M125	17 1/4	21 1/16	39 15/16	8	7 5/8	9 21/32	3/4	7/8	4 5/8	4 1/2	15	25	19 3/8	18	10 1/2	11	9 1/2	8	3/4-10	1 1/8	6 IN	15 1/16	72.5 flo.oz.	675 lbs.
56M125	19 3/4	28	43 3/8	9	8 7/8	11 5/16	13/16	1	5	5	17 11/16	27 11/16	22 1/2	21	12	13 1/2	11 3/4	8	3/4-10	1 1/8	8 IN	18	91.5 flo.oz.	1050 lbs.
102M125	27	37	54 7/8	11 3/4	12	16 1/8	7/8	1 1/8	6	6	22 7/16	32 7/16	29 11/16	28	15 3/4	16	14 1/4	12	7/8-9	1 5/16	10 IN	24	194 flo.oz.	2335 lbs.



1" APPROX.

2/08

D059628-000

REV. ECO. NO. DATE	ENGINEERING CHANGES	TITLE	DO NOT SCALE PRINTS. REMOVE BURRS. TOLERANCES UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE IN INCHES AND DECIMAL INCHES UNLESS OTHERWISE SPECIFIED. REFERENCE DRAWING D059628-000.	CHECKED BY	APPROVED BY	DRAWING NUMBER
		DIMENSIONAL ASSEMBLY 125FM-MC WITH IMCW2	SCALE	DDW	DDW	D059628-000
				DATE	DATE	DATE
				DESIGNED BY	DESIGNED BY	DESIGNED BY
				DRAWN BY	DRAWN BY	DRAWN BY
				INTEGRITY	INTEGRITY	INTEGRITY
				RELEASED	RELEASED	RELEASED

MATERIAL: _____
 LOG NUMBER: _____
 PATTERN NUMBER: _____
 FINISH: _____

Roots Meters & Instruments
 Division
 Houston, TX, U.S.A.

DRESSER

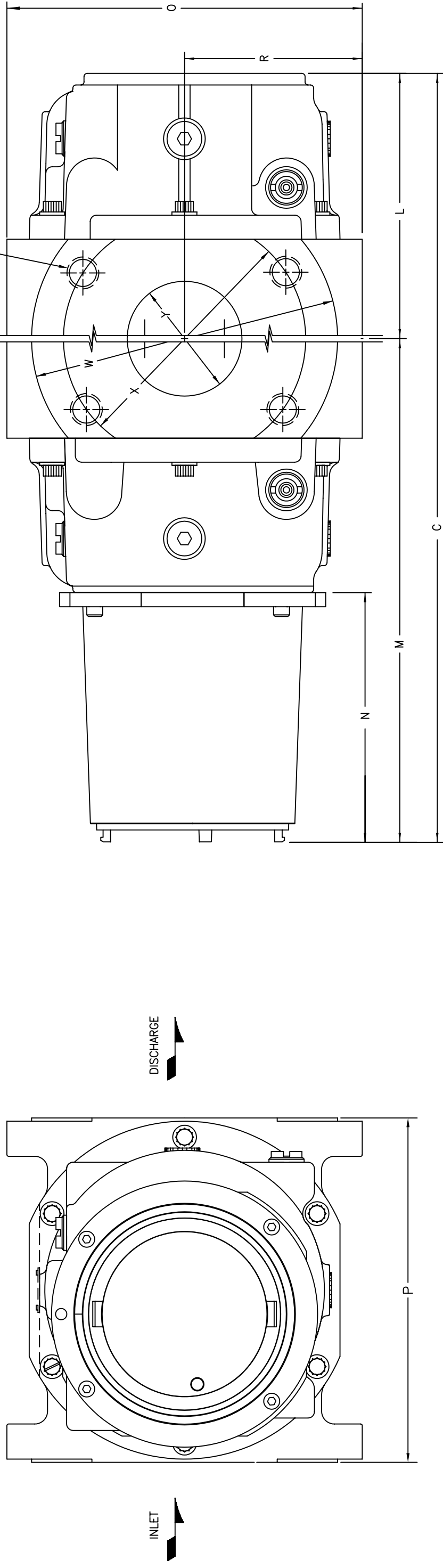
SERIES B3 ROOTS® METER 1M/3M300 WITH CTR* IMPERIAL OR METRIC

*CTR = DISPLACED VOLUME COUNTER.

MODEL	CAPACITY	UNIT	DIMENSIONS													APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE								
			C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET	TOP INLET												
1M	1000 cfh	IN	15	31/32	5	21/32	10	5/16	4	7/8	6	31/32	6	3/4	3	31/64	6	1/8	4	1/2	1	1/2	4	1.25 oz.	7.6 oz.	28.5 lbs.	300 psig.
	28.3 m³/h	mm	406	144	262	124	171	171	88.5	155.58	144.30	38.10	4	37 ml.	225 ml.	12.9 kg.											
3M	3000 cfh	IN	17	5/32	6	1/4	10	29/32	4	7/8	6	31/32	6	3/4	3	31/64	6	1/2	5	2	8	1.25 oz.	7.6 oz.	31.0 lbs.	2065 kPa.		
	85 m³/h	mm	436	159	277	124	177	177	88.5	165	127	50.80	8	37 ml.	225 ml.	13.9 kg.											

ANSI FLANGE TYPES	
1M300	1 1/2" ANSI 300# FLANGE
3M300	2" ANSI 300# FLANGE

1M300 = 3/4-10 UNC-2B X 15/16 FULL THREAD
 3M300 = 5/8-11 UNC-2B X 15/16 FULL THREAD
 Z = NO. OF HOLES



09/2000 D054722-000

REV.	ECO. NO.	DATE	ENGINEERING CHANGES
1	7844	10JUL00	

MATERIAL	ROOTS METERS & INSTRUMENTS	DO NOT SCALE PRINTS.	TITLE
1M300	1M/3M300 CTR	THIS DRAWING IS THE PROPERTY OF DMD-Roots. IT IS TO BE USED ONLY FOR THE PROJECT AND QUANTITY SPECIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DMD-Roots.	DIMENSIONAL ASSEMBLY
3M300	3M/3M300 CTR	DO NOT SCALE PRINTS. THIS DRAWING IS THE PROPERTY OF DMD-Roots. IT IS TO BE USED ONLY FOR THE PROJECT AND QUANTITY SPECIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DMD-Roots.	SERIES B3 ROOTS® METERS
		DESIGNED BY: J. SWAN	1M/3M300 CTR
		CHECKED BY: J. SWAN	
		DATE: 28FEB99	
		SCALE: 1:1	
		DRIVING NUMBER: D054722-000	

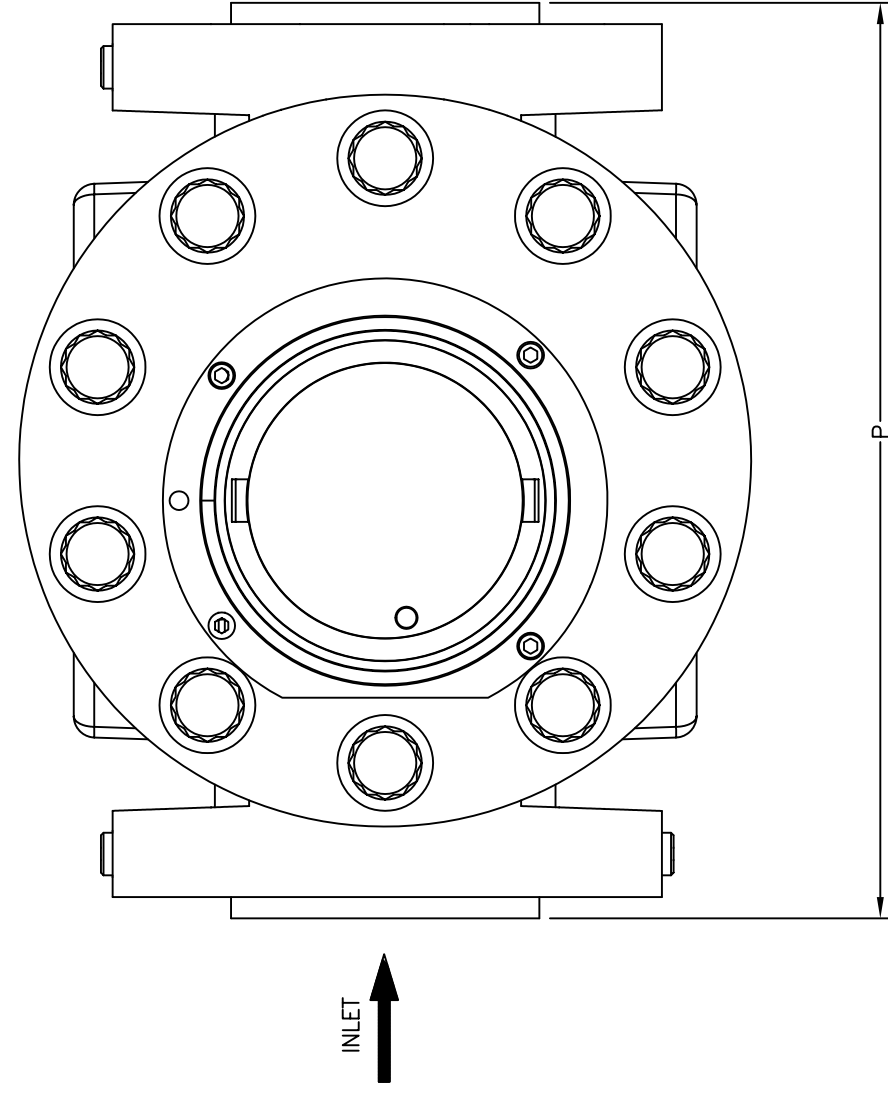
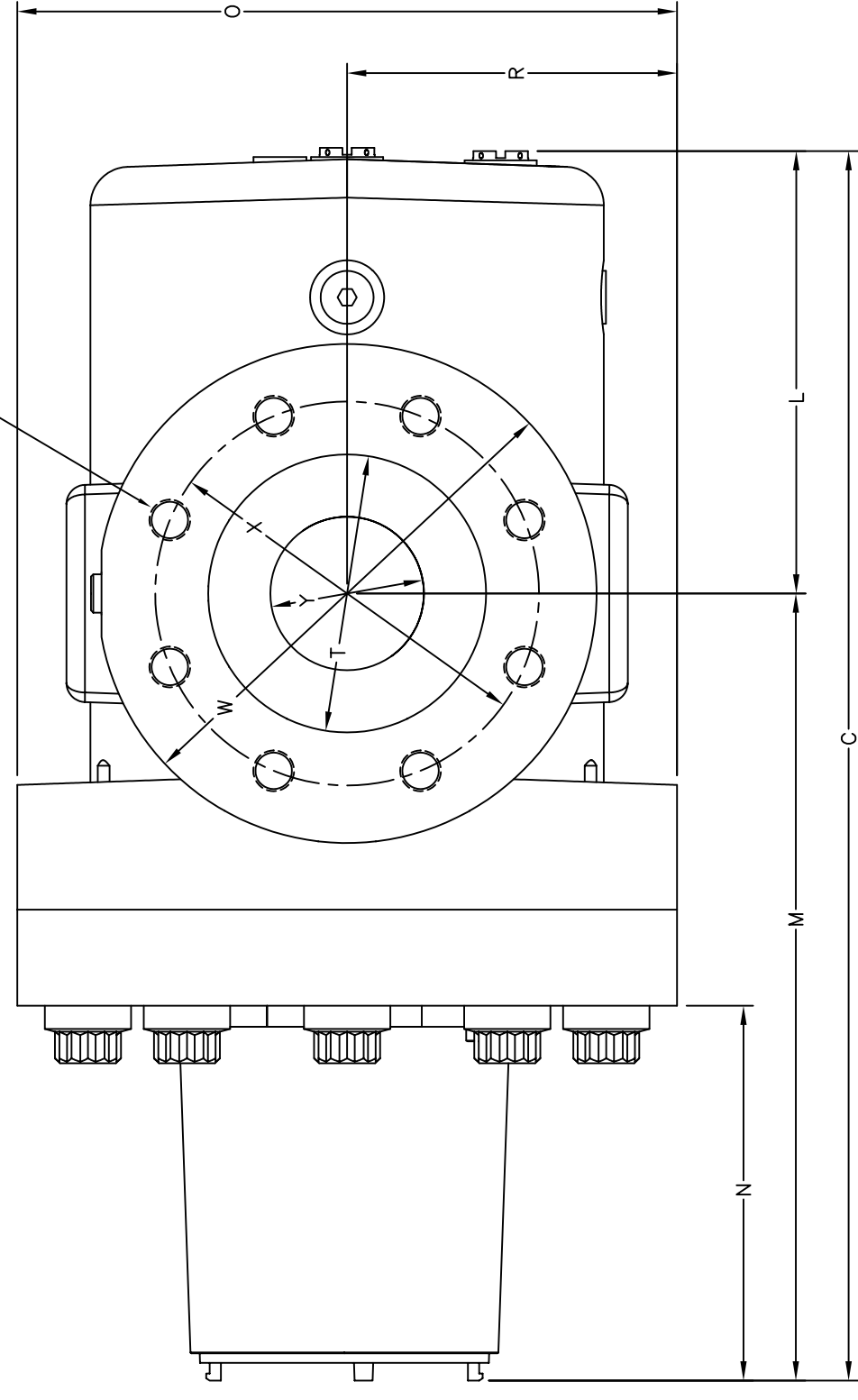
MODEL	CAPACITY	DIMENSIONS											APPROX. OIL CAPACITY	APPROX. WEIGHT	MAX. WORK PRESSURE		
		UNIT	C	L	M	N	O	P	R	T	W	X				Y	Z
1M	1000 cfh	IN	16 1/32	5 25/32	10 1/4	4 7/8	8 5/8	10 3/4	4 5/16	3 5/8	6 1/2	5	2	8	4.2 oz.	11 oz.	740/1480 psig.
	28,3 m ³ /h	mm	407	146	260	124	218	273	109	92	165	127	51	8	124 ml.	325 ml.	
3M	3000 cfh	IN	16 1/32	5 25/32	10 1/4	4 7/8	8 5/8	10 3/4	4 5/16	3 5/8	6 1/2	5	2	8	2.8 oz.	7.2 oz.	5,102/10,204 kPa
	85 m ³ /h	mm	407	146	260	124	273	109	92	165	127	51	8	83 ml.	213 ml.	50 kg.	

B3-HPC
 ROOTS® METER
 1M/3M740/1480
 WITH CTR*
 IMPERIAL OR METRIC

*CTR= DISPLACED VOLUME COUNTER

ANSI FLANGE TYPES	
1M/3M 740	2" ANSI 300# FLANGE
1M/3M 1480	2" ANSI 600# FLANGE

5/8-11 UNC-2B X 1 1/8 FULL THREAD
 Z = NO. OF HOLES



09/2000 D054757-000

REV. ECO. NO. DATE	7844 10JUL00	ENGINEERING CHANGES
MATERIAL		
ITEM NUMBER		
PATTERN NUMBER		
FINISH		
ROOTS METERS & INSTRUMENTS	DMD-Roots DIVISION DRESSER INDUSTRIES, INC. HOUSTON, TEXAS, USA	
SCALE	DATE	20MPR98
ISSUED	DATE	20MPR98
DESIGNED	DATE	20MPR98
APPROVED	DATE	20MPR98
DRIVING NUMBER	D054757-000	
TITLE	DIMENSIONAL ASSEMBLY B3-HPC ROOTS® METERS 1M/3M740/1480 W/CTR	

MODEL	CAPACITY	DIMENSIONS											APPROX. OIL CAPACITY	APPROX WEIGHT	MAX. WORK PRESSURE			
		UNIT	C	L	M	N	O	P	R	T	W	X				Y	Z	SIDE INLET
1M	1000 cfh	IN	17 19/32	5 25/32	11 13/16	6 3/8	8 5/8	10 3/4	4 5/16	3 5/8	6 1/2	5	2	8	4.2 oz.	11 oz.	112 lbs.	740/1480 psig.
	28.3 m ³ /h	mm	447	146	300	162	218	273	109	92	165	127	51	8	124 ml.	325 ml.	51 kg.	
3M	3000 cfh	IN	17 19/32	5 25/32	11 13/16	6 3/8	8 5/8	10 3/4	4 5/16	3 5/8	6 1/2	5	2	8	2.8 oz.	7.2 oz.	112 lbs.	5,102/10,204 kPa
	85 m ³ /h	mm	447	146	300	162	218	273	109	92	165	127	51	8	83 ml.	213 ml.	51 kg.	

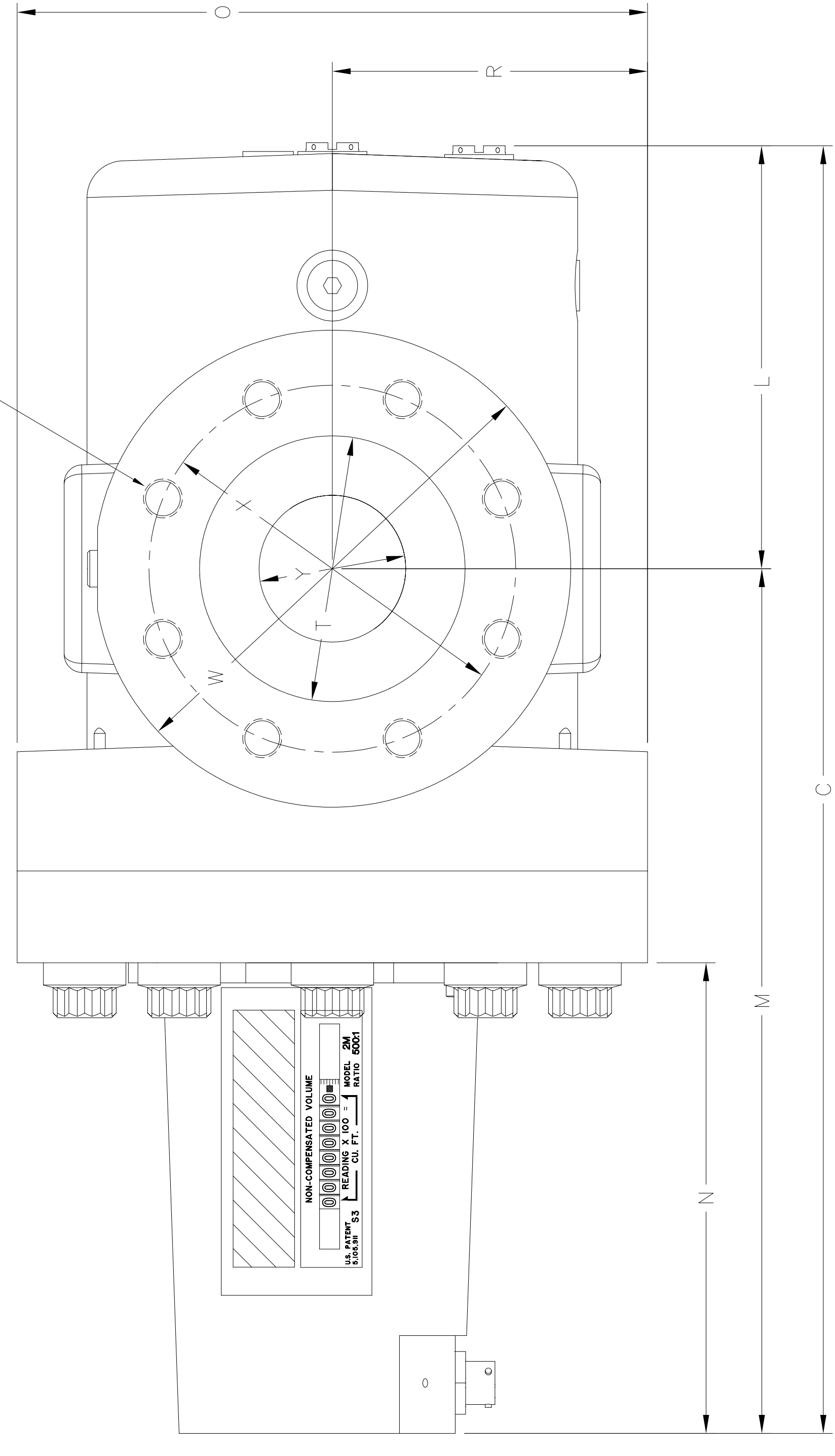
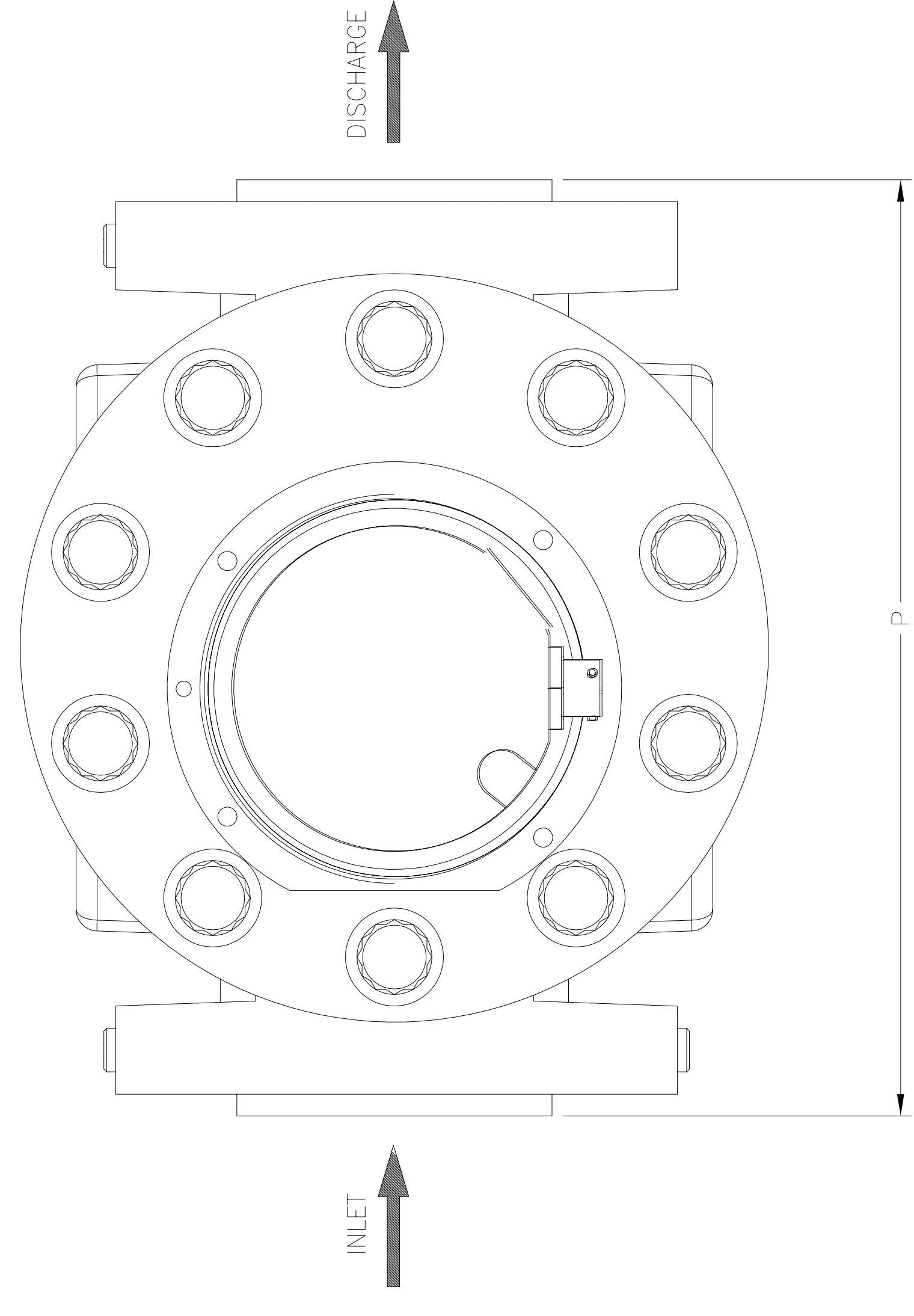
B3-HPC
ROOTS® METER
1M/3M740/1480

FOR THE FOLLOWING MODELS
*ICPW AND *ICEX
IMPERIAL OR METRIC

*ICPWS, ICPWD, ICPWX=DISPLACED VOLUME COUNTER PULSER.
**ICEX=UNCOMPENSATED COUNTER ELECTRONIC TRANSMITTER

ANSI FLANGE TYPES	
1M/3M 740	2" ANSI 300# FLANGE
1M/3M 1480	2" ANSI 600# FLANGE

5/8-11 UNC-2B X 1 1/8 FULL THREAD
Z = NO. OF HOLES



03/2003 D057373-000

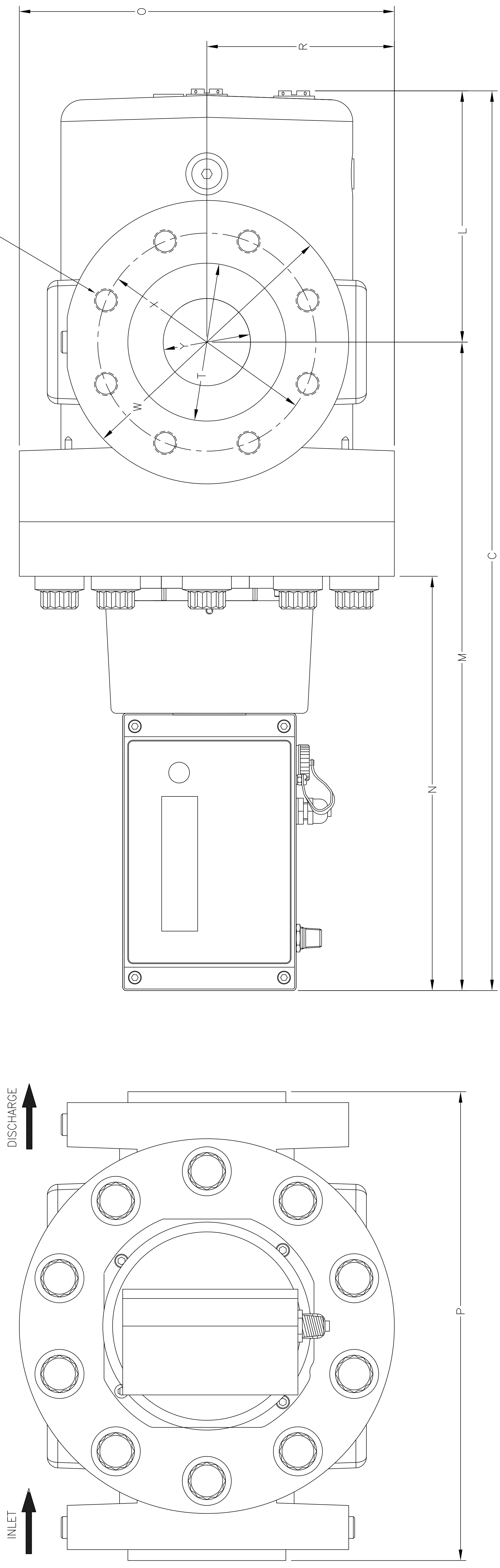
REV.	ECO NO.	DATE	ENGINEERING CHANGES	MATERIAL	ROOTS METERS & INSTRUMENTS DWAIP - ROOTS DIVISION INC. HOUSTON, TEXAS, USA	DESIGNER	APPROVED	DRAWING NUMBER	TITLE
				JIG NUMBER	DO NOT SCALE PRINTS. INDUSTRIAL PIPING & CONNECTIONS. THE UNDERLINES OF DIMENSIONS ARE TO BE USED FOR ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE TO BE GIVEN TO WHOLE INCHES, UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO BE IN INCHES. FINISH SHALL BE AS SHOWN FOR STANDARD. <td>1M/3M740/1480</td> <td>SMM</td> <td>D057373-000</td> <td>B3-HPC ROOTS® METERS WITH ICPWX AND ICX</td>	1M/3M740/1480	SMM	D057373-000	B3-HPC ROOTS® METERS WITH ICPWX AND ICX
				PATTERN NUMBER	DO NOT SCALE PRINTS. INDUSTRIAL PIPING & CONNECTIONS. THE UNDERLINES OF DIMENSIONS ARE TO BE USED FOR ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE TO BE GIVEN TO WHOLE INCHES, UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO BE IN INCHES. FINISH SHALL BE AS SHOWN FOR STANDARD. <td>125MAR03</td> <td>92MAY03</td> <td></td> <td></td>	125MAR03	92MAY03		
				FINISH	DO NOT SCALE PRINTS. INDUSTRIAL PIPING & CONNECTIONS. THE UNDERLINES OF DIMENSIONS ARE TO BE USED FOR ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE TO BE GIVEN TO WHOLE INCHES, UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO BE IN INCHES. FINISH SHALL BE AS SHOWN FOR STANDARD. <td></td> <td></td> <td></td> <td></td>				

MODEL	CAPACITY	DIMENSIONS											APPROX WEIGHT	MAX. WORK PRESSURE				
		UNIT	C	L	M	N	O	P	R	T	W	X			Y	Z	SIDE INLET	TOP INLET
1M	1000 cfh	IN	19 21/32	5 25/32	13 7/8	8 1/2	8 5/8	10 3/4	4 5/16	3 5/8	6 1/2	5	2	8	4.2 oz.	11 oz.	111 lbs.	740/1480 psig.
	28.3 m ³ /h	mm	499	146	352	216	218	273	109	92	165	127	51	8	124 ml.	325 ml.	50 kg.	
3M	3000 cfh	IN	19 21/32	5 25/32	13 7/8	8 1/2	8 5/8	10 3/4	4 5/16	3 5/8	6 1/2	5	2	8	2.8 oz.	7.2 oz.	111 lbs.	5,102/10,204 kPa
	85 m ³ /h	mm	499	146	352	216	218	273	109	92	165	127	51	8	83 ml.	213 ml.	50 kg.	

SERIES B3-HPC
 ROOTS® METER
 1M/3M740/1480
 WITH IMCW
 IMPERIAL OR METRIC

5/8-11 UNC-2B X 1 1/8 FULL THREAD
 Z = NO. OF HOLES

ANSI FLANGE TYPES	
1M/3M 740	2" ANSI 300# FLANGE
1M/3M 1480	2" ANSI 600# FLANGE



10/06 D059145-000

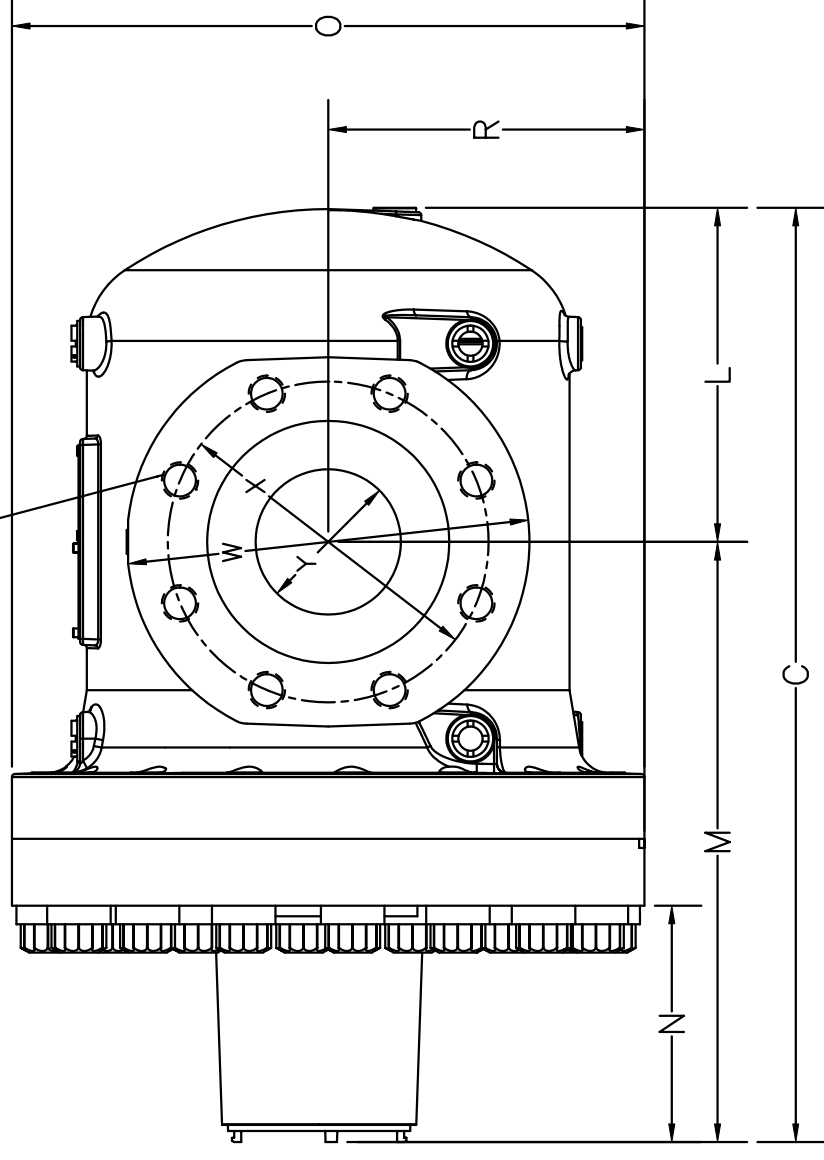
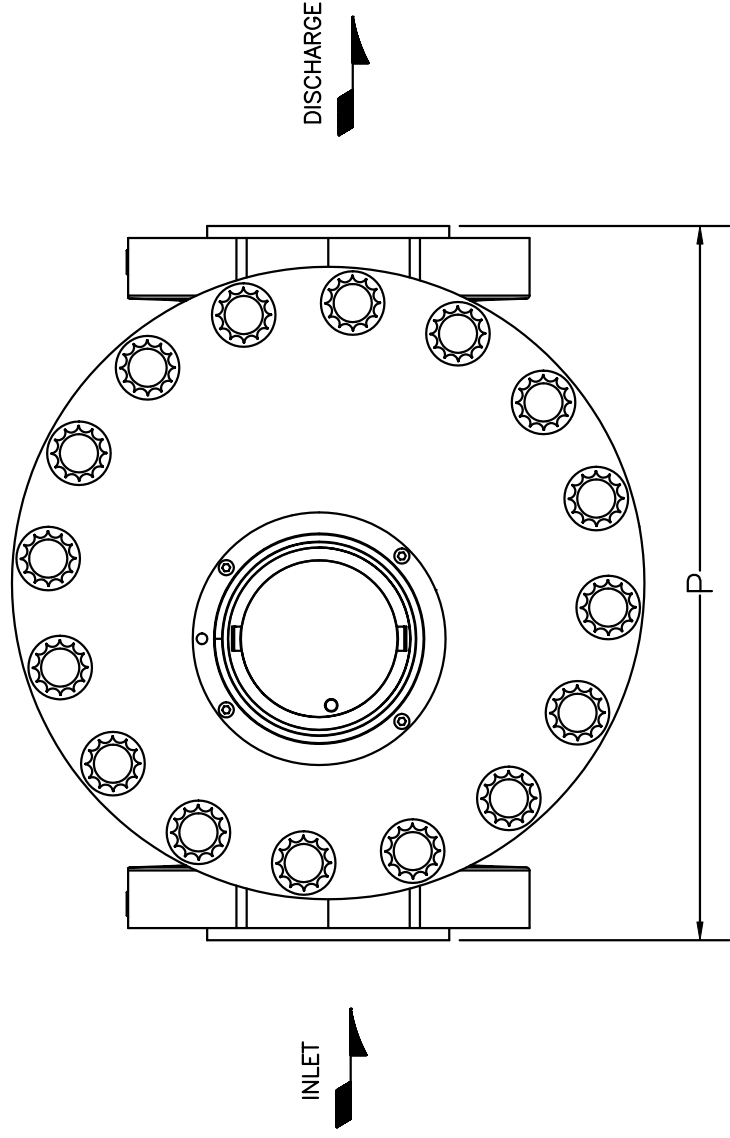
REVISIONS NO. DATE 1 10/06/06	MATERIAL LOG NUMBER PATTERN NUMBER FINISH	DO NOT SCALE PRINTS. REMOVE BURRS. DIMENSIONS SHOWN ARE UNLESS OTHERWISE SPECIFIED. TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONAL DIMENSIONS: ±0.005 DECIMAL DIMENSIONS: ±0.005 ANGLES: ±30' HOLE LOCATIONS: ±0.005 HOLE DIAMETERS: ±0.005 HOLE DEPTHS: ±0.005 HOLE TAPER: ±0.005 HOLE SURFACE FINISH: 32 R.M.S. HOLE THREADS: 2B UNLESS OTHERWISE SPECIFIED. HOLE THREADS: 2B UNLESS OTHERWISE SPECIFIED. HOLE THREADS: 2B UNLESS OTHERWISE SPECIFIED.	TITLE DIMENSIONAL ASSEMBLY SERIES B-HPC ROOTS® METERS 1M/3M740/1480 W/IMCW DRAWING NUMBER D059145-000
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SERIES B3-HPC ROOTS® METER 5M/7M 1480 WITH CTR* IMPERIAL OR METRIC

*CTR = DISPLACED VOLUME COUNTER

MODEL	CAPACITY	DIMENSIONS													APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE
		UNIT	C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET	TOP INLET			
5M	5000 cfh	IN	19 9/32	6 29/32	12 13/32	4 7/8	13 1/16	14 3/4	6 17/32	8 5/16	6 5/8	3	8	17.5 oz.	41 oz.	215 lbs.		
	141,6 m ³ /h	mm	490	175	315	124	332	375	166	211	168	76	8	518 ml.	1213 ml.	97.5 kg.		
7M	7000 cfh	IN	19 9/32	6 29/32	12 13/32	4 7/8	13 1/16	14 3/4	6 17/32	8 5/16	6 5/8	3	8	13.5 oz.	37 oz.	220 lbs.		
	198,2 m ³ /h	mm	490	175	315	124	332	375	166	211	168	76	8	399 ml.	1094 ml.	100 kg.		

5M/7M 1480 = 3/4-10 UNC-2B X 1 1/4" FULL THREAD
Z = NO. OF HOLES



REV.	10/10/00
DATE	7/94
NO.	
BY	

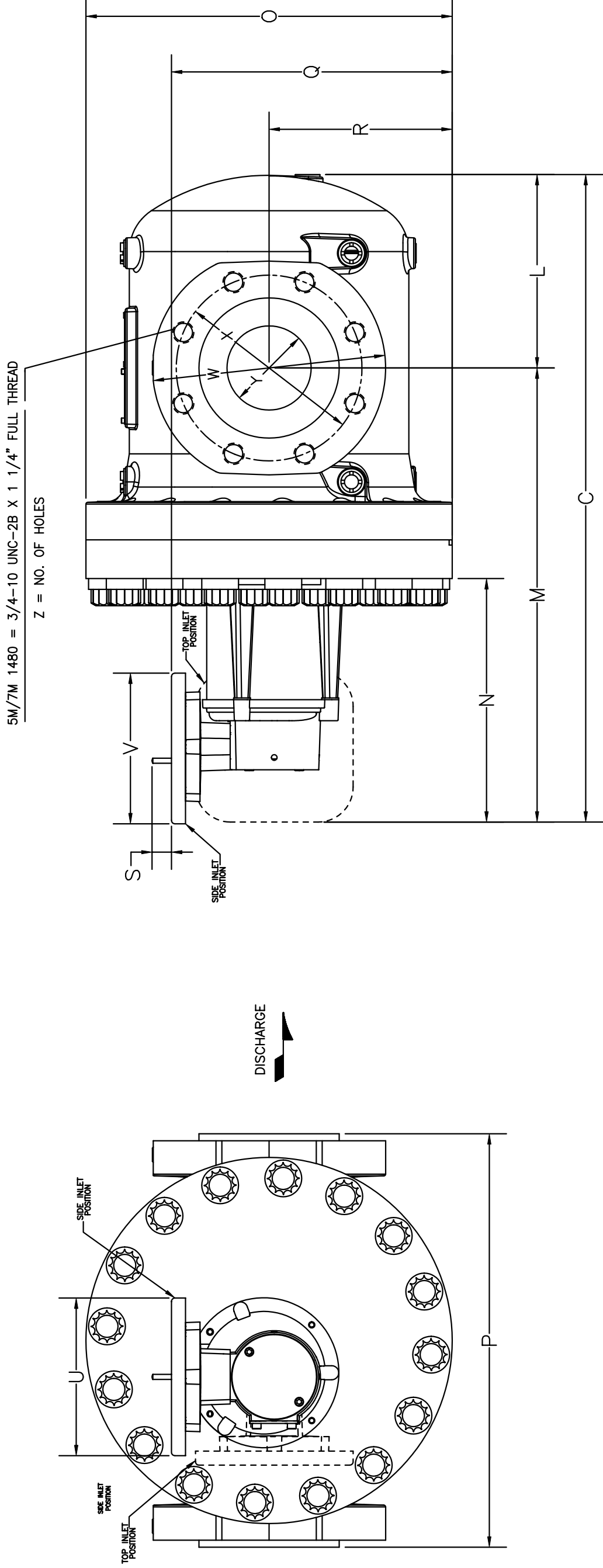
MATERIAL		TITLE	
PART NUMBER		DIMENSIONAL ASSEMBLY	
PATTERN NUMBER		ROOTS METERS SERIES B3-HPC	
FINISH		5M/7M 1480 W/CTR.	
DO NOT SCALE PRINTS. BREAK ALL SHARP EDGES. TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. ±.005 FRACTION ±.001 ANG. ±.007		DRAFTER	
DND-Roots DIVISION DESIGN EQUIPMENT GROUP, INC. HOUSTON, TEXAS, USA		CHECKER	
ROOTS METERS & INSTRUMENTS		SCALE	
1:2		DRAWING NUMBER	
05MAY00		D056135-000	

09/2000 D056135-000

MODEL	CAPACITY	UNIT	DIMENSIONS																	APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE
			C	L	M	N	O	P	Q	R	S	U	V	W	X	Y	Z	SIDE INLET	TOP INLET				
5M	5000 cfh	IN	23 3/32	6 29/32	16 13/16	8 11/16	13 1/16	14 3/4	10	6 17/32	11/16	5 5/8	5 3/8	8 5/16	6 5/8	3	8	17.5 oz.	41 oz.	215 lbs.	1480 psig. 10204 kPa.		
	141.6 m ³ /h	mm	587	175	412	221	332	375	245,3	166	17,5	143	137	211	168	76	518 ml.	1213 ml.	97.5 kg.				
7M	7000 cfh	IN	23 3/32	6 29/32	16 13/16	8 11/16	13 1/16	14 3/4	10	6 17/32	11/16	5 5/8	5 3/8	8 5/16	6 5/8	3	8	13.5 oz.	37 oz.	220 lbs.			
	198.2 m ³ /h	mm	587	175	412	221	332	375	245,3	166	17,5	143	137	211	168	76	399 ml.	1094 ml.	100 kg.				

SERIES B3-HPC
ROOTS® METER
5M/7M 1480
WITH CD*
IMPERIAL OR METRIC

*CD = DISPLACED VOLUME COUNTER WITH INSTRUMENT DRIVE.



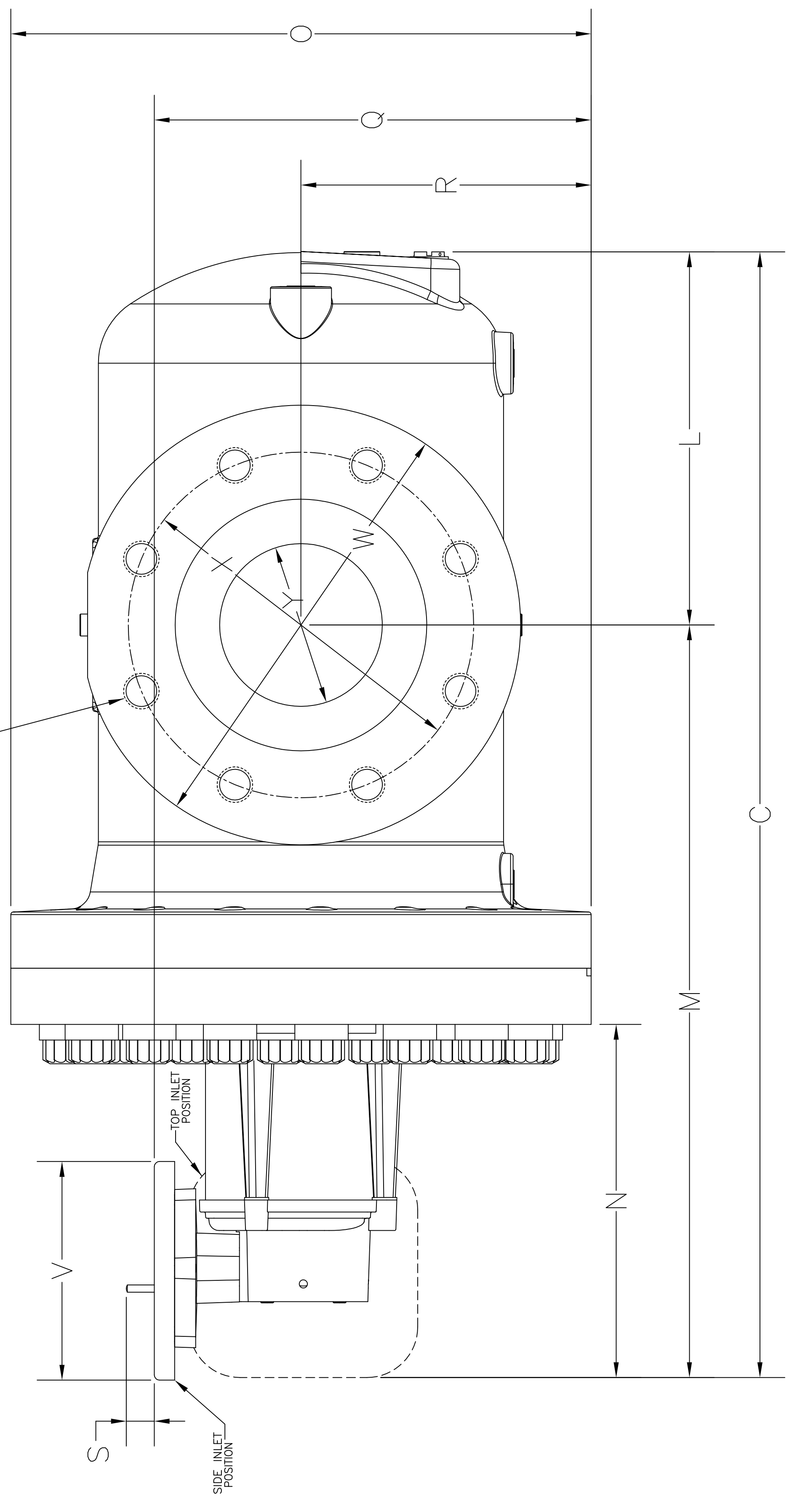
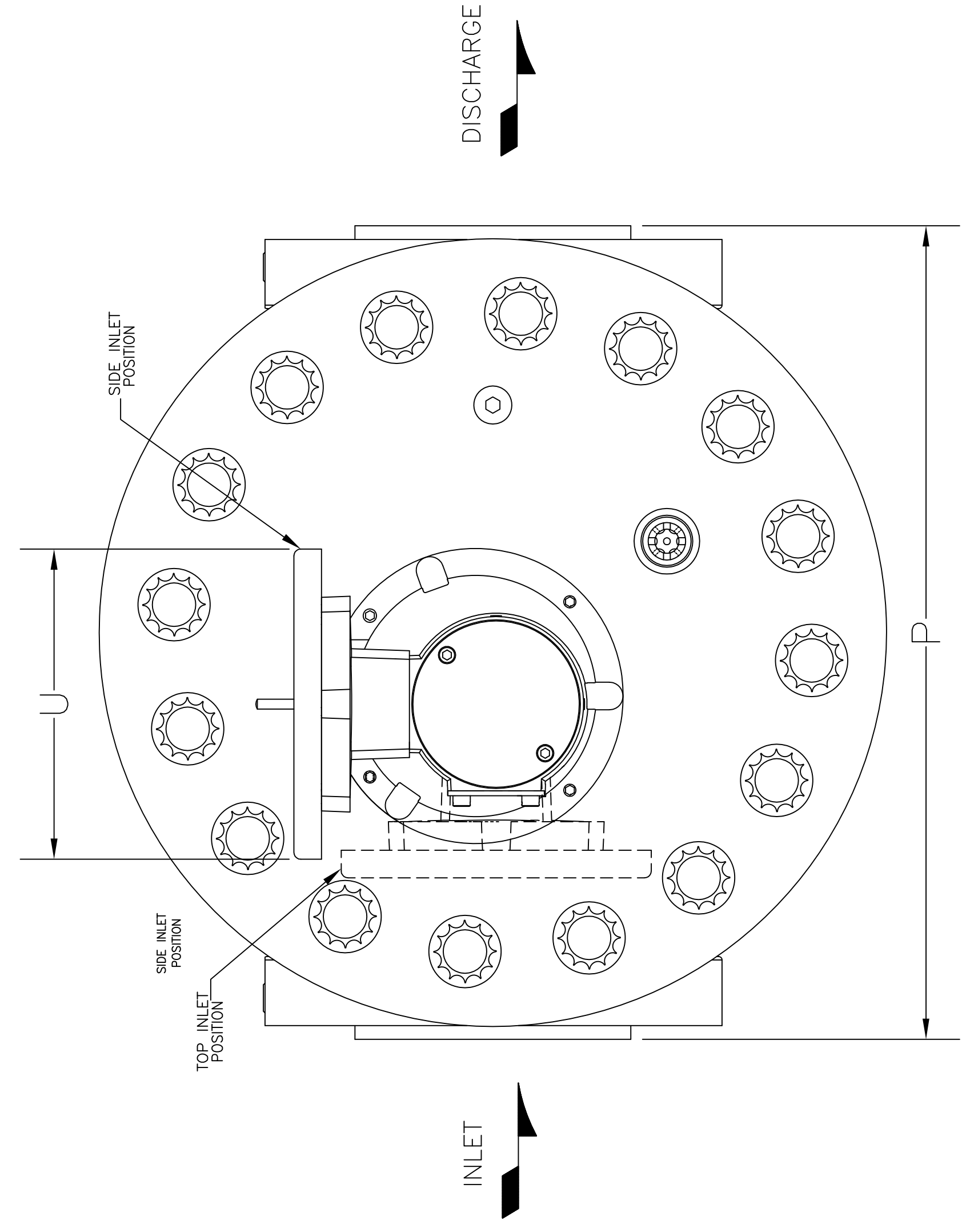
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REV. ECH. NO. DRE		A 7844 10JUL00		DESIGNED BY: JSP		CHECKED BY: JSP		DATE: 02JUL00		APPROVED BY: JSP		DATE: 02JUL00		DIMENSIONAL ASSEMBLY		ROOTS METERS SERIES B3-HPC		5M/7M 1480 W/CD		D056136-000	
REV. ECH. NO. DRE		A 7844 10JUL00		DESIGNED BY: JSP		CHECKED BY: JSP		DATE: 02JUL00		APPROVED BY: JSP		DATE: 02JUL00		DIMENSIONAL ASSEMBLY		ROOTS METERS SERIES B3-HPC		5M/7M 1480 W/CD		D056136-000	

MODEL	CAPACITY	DIMENSIONS																APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE
		UNIT	C	L	M	N	O	P	Q	R	S	U	V	W	X	Y	Z	SIDE INLET	TOP INLET		
11M	11000	IN	27 11/16	9 3/16	18 1/2	8 11/16	14 9/32	14 3/4	10 3/4	7 1/8	11/16	5 5/8	5 3/8	10 13/16	8 1/2	4	8	12 oz.	35 oz.	278 lbs.	1480 psig.

SERIES B3-HPC
 ROOTS® METER
 11M 1480
 WITH CD*

*CD = DISPLACED VOLUME COUNTER WITH INSTRUMENT DRIVE.

11M 1480 = 7/8-9 UNC-2B FULL THREAD THRU
 Z = NO. OF HOLES



PERPENDICULARITY	⊥
ROUNDNESS	○
CONCENTRICITY	◎
SYMMETRY	∩
PARALLELISM	∥
RUNOUT	↗
DIAMETER	∅
MAX. MATERIAL	⊖
FINISH IN MICRO INCHES	▽
CYLINDRICITY	⊘
REGARDLESS OF FEATURE SIZE	▽
INDICATING MACHINE LOCATING SURFACE	▽
DEPTH	⋈

05/2007

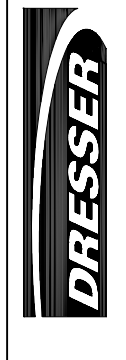
D059329-000

REV.	ECO. NO.	DATE	CHANGES

MATERIAL	
DWG NUMBER	
PATTERN NUMBER	
FINISH	

DO NOT SCALE PRINTS. REMOVE BURRS, SPURS, AND PROTRUSIONS. TOLERANCES UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN INCHES AND DECIMAL FRACTIONS. SEE: 41.005			
CHECKED	DESIGNER	APPROVED	DRAWING NUMBER
DAR	JOMAY07	SMM	D059329-000
SCALE	1:2	(18FEB08)	RELEASED

DIMENSIONAL ASSEMBLY	
ROOTS® METERS, SERIES B3-HPC	
11M 1480 W/CD	
TITLE	
D059329-000	



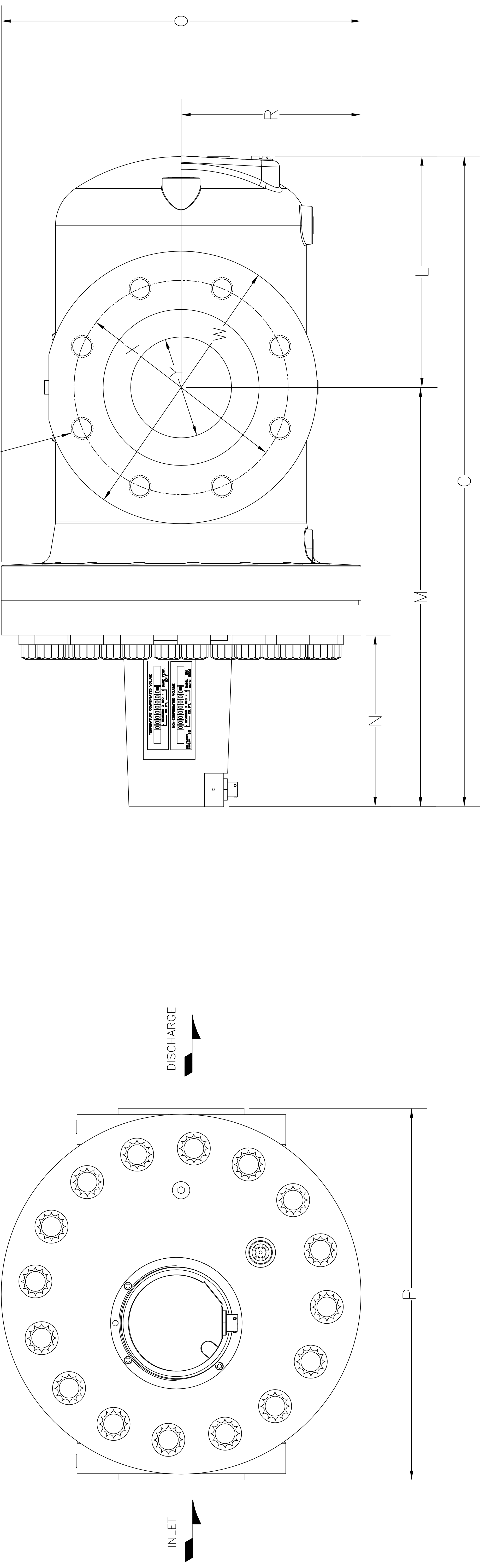
Roots Meters & Instruments
 Dresser Inc.
 Houston, TX, U.S.A.

MODEL	CAPACITY	DIMENSIONS													APPROX. OIL CAPACITY	APPROX WEIGHT	MAX. WORK PRESSURE
		UNIT	C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET			
11M	11000	IN	25 13/16	9 3/16	16 5/8	6 13/16	14 9/32	14 3/4	7 1/8	10 13/16	8 1/2	4	8	12 oz.	35 oz.	278 lbs.	1480 psig.

SERIES B3-HPC
ROOTS® METER
11M 1480
WITH ICPWX*
AND ICEX** UNIT
IMPERIAL ONLY

*ICPWS, ICPWD, ICPWX=DISPLACED VOLUME COUNTER PULSER.
**ICEX=UNCOMPENSATED COUNTER ELECTRONIC TRANSMITTER

11M 1480 = 7/8-9 UNC-2B FULL THREAD THRU
Z = NO. OF HOLES



PERPENDICULARITY	○	ROUNDNESS	○
CONCENTRICITY	⊕	PARALLELISM	∥
SYMMETRY	⊖	PERPENDICULARITY	⊥
MAX. MATERIAL	⊖	DIAMETER	∅
FINISH IN MICRO INCHES	▽	CYLINDRICITY	⊘
REGARDLESS OF FEATURE SIZE	▽	INDICATING MACHINE LOCATING SURFACE	▽
INDICATING MACHINE LOCATING SURFACE	▽		

REV.	ECO. NO.	DATE																		
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11/2007

D059535-000

DO NOT SCALE PRINTS.
RELATIVE BURRS, SHARP EDGES, TOLERANCES UNLESS OTHERWISE SPECIFIED.
SEC. 41.005 FRACTIONAL ±1/64

Roots Meters & Instruments
Dresser Inc.
Houston, TX, U.S.A.

DRESSER

11M 1480 W/ICPWX/ICEX

DIMENSIONAL ASSEMBLY
ROOTS® METERS, SERIES B3-HPC

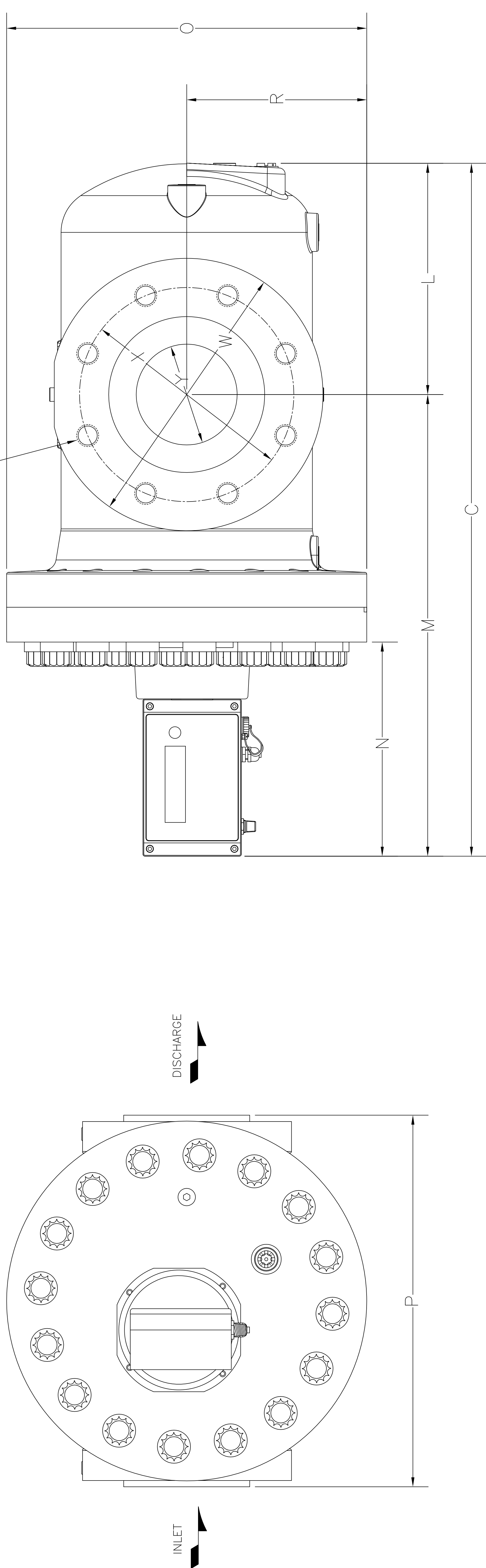
11M 1480 W/ICPWX/ICEX

D059535-000

SERIES B-HPC ROOTS® METER 11M 1480 WITH IMCW

MODEL	CAPACITY		DIMENSIONS													APPROX. OIL CAPACITY		APPROX WEIGHT	MAX. WORK PRESSURE
	UNIT		C	L	M	N	O	P	R	W	X	Y	Z	SIDE INLET	TOP INLET				
11M	IN	11000 chf	27 1/2	9 3/16	18 5/16	8 1/2	14 9/32	14 3/4	7 1/8	10 13/16	8 1/2	4	8	12 oz.	35 oz.				
	mm	311,5 m³/h	698,6	233	465,4	216	362,7	371,7	181,4	274,6	216	4	8	355 oz.	1035 oz.				
														278 lbs.	1480 psig.				
														126 kg.	10204 kPa.				

11M 1480 = 7/8-9UNC-2B FULL THREAD THRU
Z = NO. OF HOLES



07/2007 D059374-000

REV.	ECO. NO.	DATE	ENGINEERING CHANGES	MATERIAL	FINISH	PATTERN NUMBER	LOG NUMBER	TITLE
								DIMENSIONAL ASSEMBLY
								ROOTS® METERS SERIES B3-HPC
								11M 1480 W/IMCW
								CHECKED BY: DAR
								DESIGNED BY: SMM
								APPROVED BY: (S) (S) (S)
								DRAWING NUMBER: D059374-000
								DATE: 13JUL07
								RELEASED

DO NOT SCALE PRINTS.
REMOVE BURRS.
TOLERANCES UNLESS OTHERWISE SPECIFIED:
DIMENSIONS: FRACTIONAL: 1/64
DECIMALS: .005
ANGLES: .50°

THIS DRAWING CONSIDERS INFORMATION OF OTHERS.
IT IS THE USER'S RESPONSIBILITY TO OBTAIN NECESSARY PERMISSIONS FROM THE ORIGINAL DESIGNER AND TO PROTECT THE RIGHTS OF OTHERS.
REVISIONS TO THIS DRAWING SHALL BE INDICATED BY A REVISION TABLE.

ROOTS METERS & INSTRUMENTS
DMD-Roots DIVISION
DRESSER EQUIPMENT GROUP, INC.
HOUSTON, TEXAS, USA