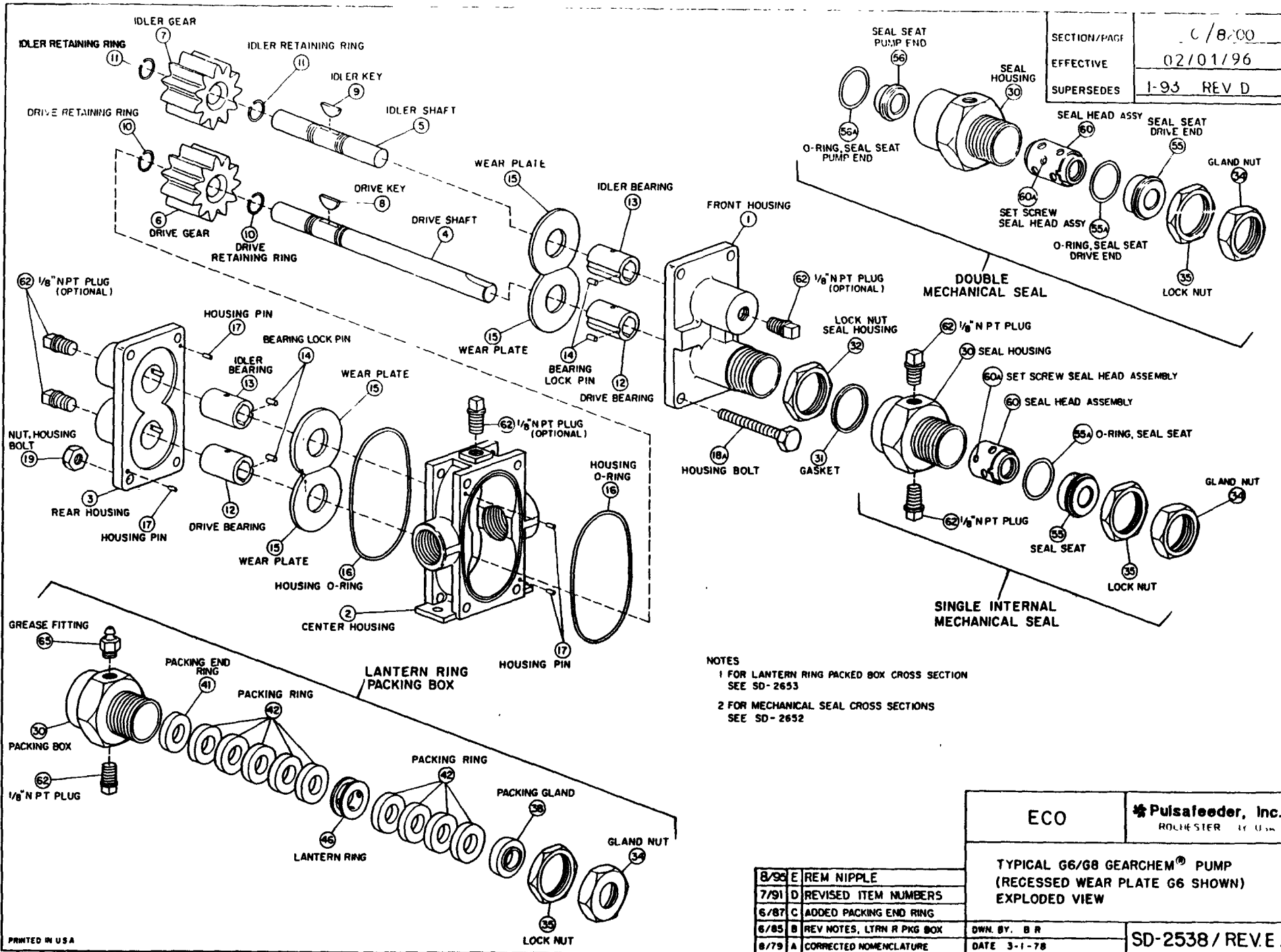


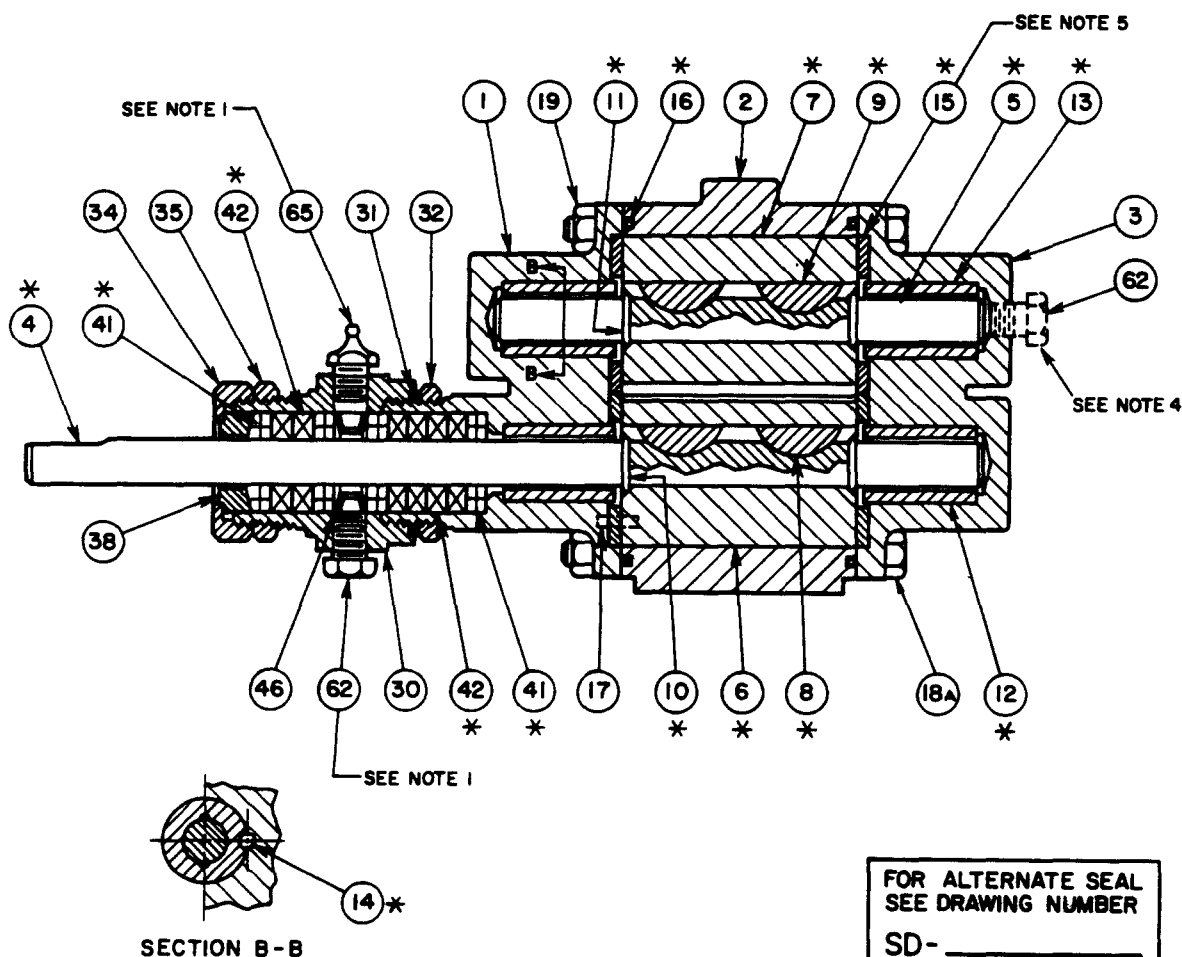
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ITEM	PART NAME	ITEM	PART NAME
1	FRONT HOUSING	17	HOUSING PIN
2	CENTER HOUSING	18A	HOUSING BOLT
3	REAR HOUSING	19	NUT, HOUSING BOLT
4	DRIVE SHAFT	30	PACKING BOX
5	IDLER SHAFT	31	GASKET
6	DRIVE GEAR	32	LOCK NUT, HOUSING
7	IDLER GEAR	34	GLAND NUT
8	DRIVE KEY	35	LOCK NUT
9	IDLER KEY	38	PACKING GLAND
10	DRIVE RETAINING RING	41	PACKING END RING
11	IDLER RETAINING RING	42	PACKING RING
12	DRIVE BEARING	46	LANTERN RING
13	IDLER BEARING	62	PLUG, 1/8" NPT
14	BEARING LOCK PIN	65	GREASE FITTING
15	WEAR PLATE		
16	HOUSING O-RING		

SECTION / PAGE	C / 8201
EFFECTIVE	01-01-93
SUPERSEDES	01-26-81



FOR ALTERNATE SEAL
SEE DRAWING NUMBER
SD- _____

- NOTES: 1 PACKING BOX SHOWN 90° OUT OF POSITION
 2 * RECOMMENDED SPARE PARTS, AVAILABLE AS OVERHAUL KIT.
 3 MECHANICAL SEALS ARE AVAILABLE.
 4 1/8" NPT FLUSH PORTS ARE AN AVAILABLE OPTION
 5 RECESSED WEAR PLATES ARE STANDARD AS SHOWN.

ECO PUMP CORPORATION
SOUTH PLAINFIELD, N.J. U.S.A.

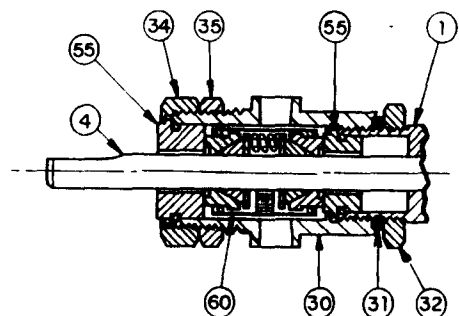
G8 MODEL GEARCHEM® PUMP
CROSS SECTION
WITH LANTERN RING PACKING BOX

DWN BY: B.R.

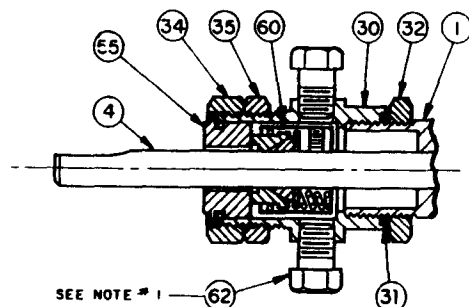
DATE: 10-1-79

SD-2604

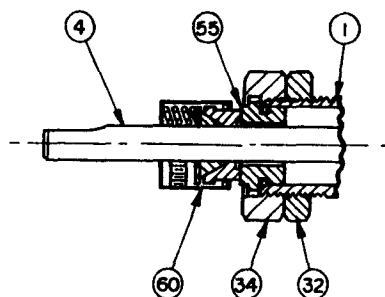
ITEM	PART NAME
1	FRONT HOUSING
4	DRIVE SHAFT
30	SEAL HOUSING
31	GASKET
32	LOCK NUT, HOUSING
34	GLAND NUT
35	LOCK NUT
36	SEAT RETAINER W/PIN
37	O-RING, SEAT RETAINER
39A	BOLT, SEAT RETAINER
55	SEAL SEAT W/SEAL RING GA12, 16
55	SEAL SEAT W/O-RING G2, 4, 6, 8
59	PIN, PUMP END SEAT
60	SEAL HEAD ASSEMBLY
62	PLUG, 1/8" NPT
63	PLUG, 1/4" NPT



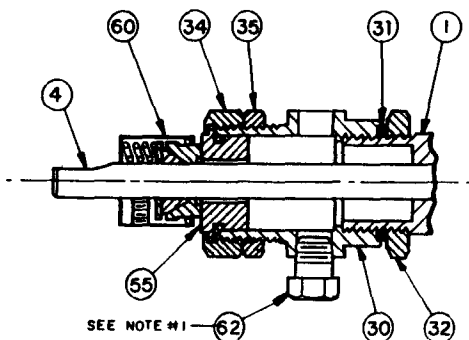
DOUBLE INTERNAL SEAL
A6, G2, G4, G6, G8



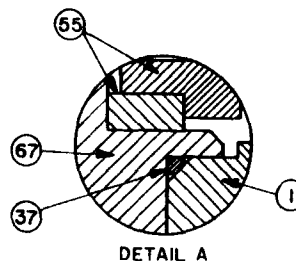
SINGLE INTERNAL SEAL
A6, G2, G4, G6, G8



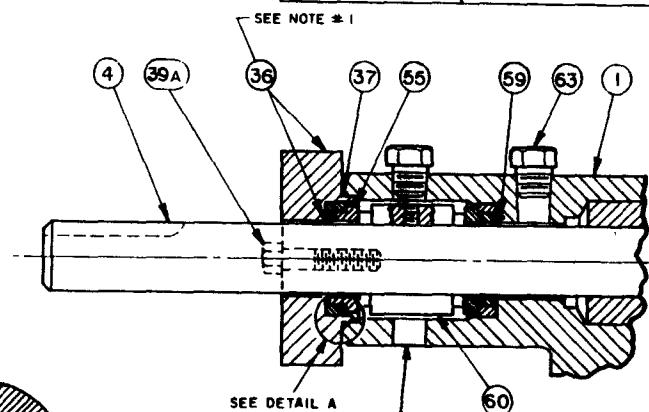
SINGLE EXTERNAL SEAL
A6, G2, G4, G6, G8



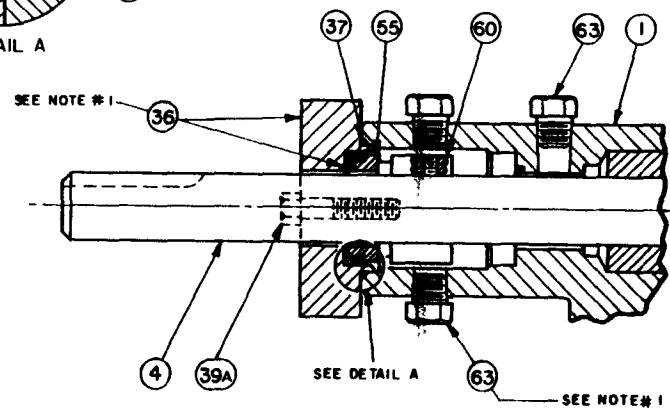
EXTERNAL SEAL FOR VACUUM SERVICE
G2, G4, G6, G8



DETAIL A



DOUBLE MECHANICAL SEAL
GA12, GA16



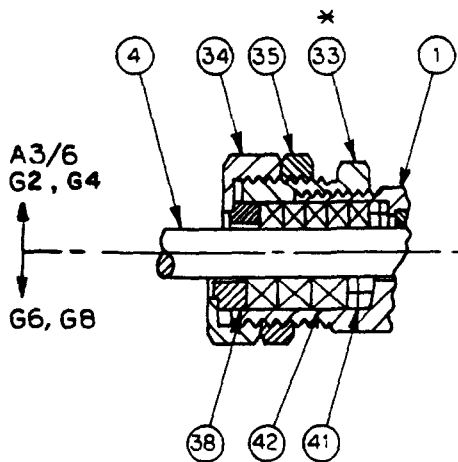
SINGLE MECHANICAL SEAL
GA12, GA16

- NOTES: 1. PARTS SHOWN 90° OUT OF POSITION.
2. REFER TO STANDARD SALES BILL OF MATERIAL FOR PART NUMBERS AND QUANTITY.
3. FOR ALL DOUBLE MECHANICAL SEALS, CIRCULATE SUITABLE FLUID AT 25-30 PSI ABOVE PUMP DISCHARGE PRESSURE. FLUID TEMPERATURE & FLOW MUST BE ADEQUATE TO MAINTAIN A MAXIMUM TEMPERATURE OF 160°F IN SEAL HOUSING

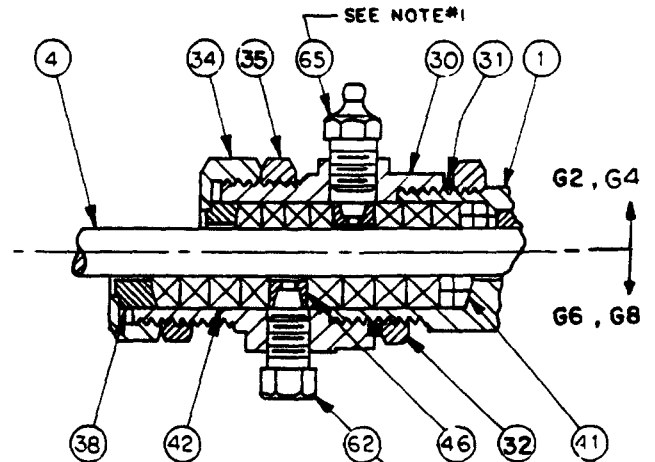
SECTION / PAGE	C / 16203
EFFECTIVE	02-01-96
SUPERSEDES	01-01-95

ECO	Pulsafeeder, Inc. ROCHESTER, NY USA
MECHANICAL SEAL ARRANGEMENTS FOR GEARCHEM/ROTARY PUMPS	
DWN BY: KRY	DATE: 6-19-85
8/95 B REM NIPPLE 7/91 A UPDATED ITEM NUMBERS	SD-2652

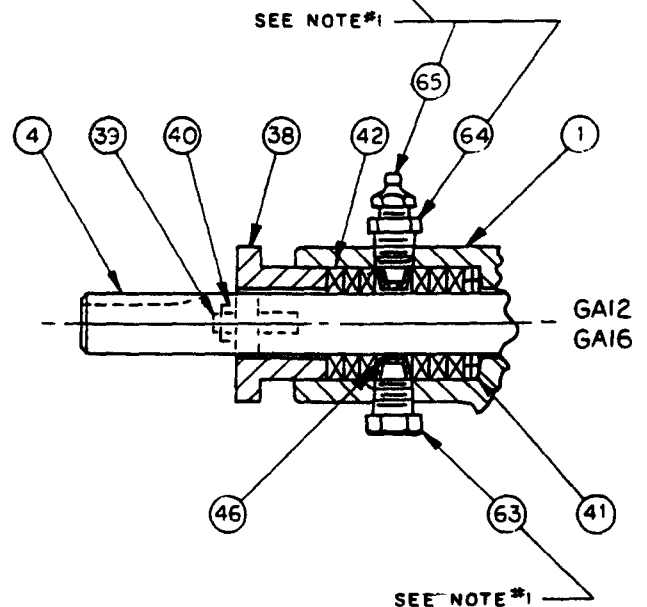
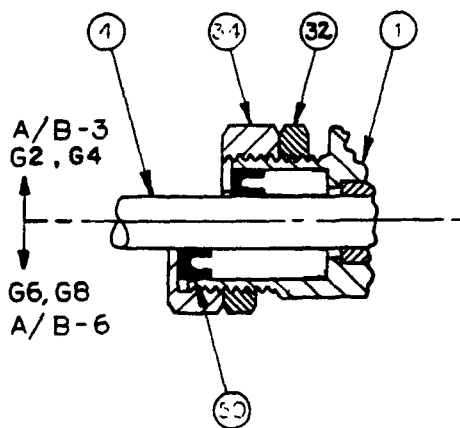
STANDARD STUFFING BOX



LANTERN RING STUFFING BOX



U-CUP LIP SEAL



NOTES

- 1) PARTS SHOWN 90° OUT OF POSITION
- 2) * ITEM 33 COMPONENT ONLY A3/6, G2/4
- 3) REFER TO STANDARD SALES BILL OF MATERIAL FOR PART NUMBERS & QUANTITY

65	GREASE FITTING
64	ADAPTOR, 1/4" TO 1/8" NPT
63	PLUG, 1/4" NPT
62	PLUG, 1/8" NPT
50	LIP SEAL, U-CUP
46	LANTERN RING
42	PACKING RING
41	PACKING END RING
40	NUT, STUD
39	STUD, PACKING GLAND
38	PACKING GLAND
35	LOCK NUT
34	GLAND NUT
33	HOUSING EXTENSION
32	LOCK NUT, HOUSING
31	GASKET
30	PACKING BOX
4	DRIVE SHAFT
1	FRONT HOUSING
ITEM	PART NAME

ALL DIMENSIONS ARE IN INCHES

ECO

PULSAFEEDER
A Unit of IDEX Corporation

PACKING ARRANGEMENTS FOR
GEARCHEM/ROTARY PUMPS

REF	REMOVED ITEM NUMBER 53	04/03/01
	REVISION UPDATE	DATE

SECTION/PART	C/GB/A203
EFFECTIVE	04/03/01
SUPERSEDES	12/10/97

OWN BY	KRY
DATE	6/19/85

SD-2653

(PARTS ARE ON MANUAL DRAWING)

NOTES:

- 1.) PARTS SHOWN 90° OUT OF POSITION.
- 2.) * ITEM 33 COMPONENT ONLY A3/6, G2/4.
- 3.) REFER TO STANDARD SALES BILL OF MATERIAL FOR PART NUMBERS & QUANTITY.

	REMOVED ITEM NUMBER 53	/ /
REF	REVISION UPDATE	DATE

65	GREASE FITTING
64	ADAPTOR, 1/4" TO 1/8"
63	PLUG, 1/4" NPT
62	PLUG, 1/8" NPT
50	LIP SEAL, U-CUP
46	LANTERN RING
42	PACKING RING
41	PACKING END RING
40	NUT, STUD
39	STUD, PACKING GLAND
38	PACKING GLAND
35	LOCK NUT
34	GLAND NUT
33	HOUSING EXTENSION
32	LOCK NUT, HOUSING
31	GASKET
30	PACKING BOX
4	DRIVE SHAFT
1	FRONT HOUSING
ITEM	PART NAME

SECTION/PAGE	
EFFECTIVE	04/03/01
SUPERSEDES	12/10/97

ALL DIMENSIONS ARE IN INCHES



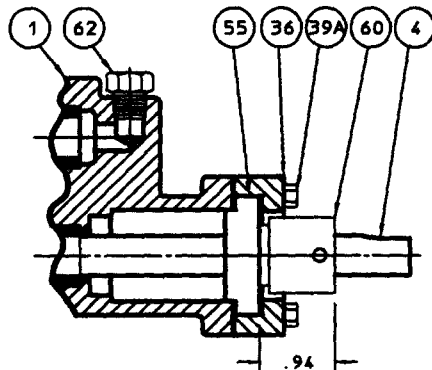
PACKING ARRANGEMENTS FOR GEARCHEM/ROTARY PUMPS

DWN BY: KRY

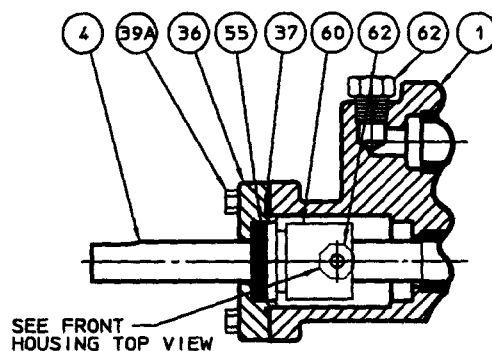
DATE: 6/19/85

SD-2653

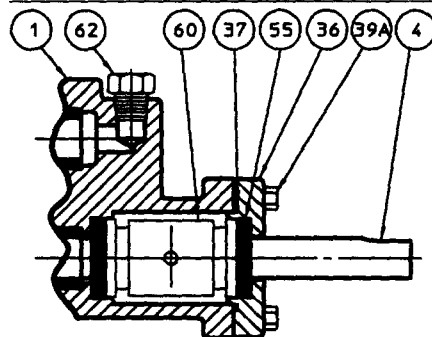
ITEM	PART NAME
1	FRONT HOUSING
4	DRIVE SHAFT
10	RETAINING RING
36	SEAL RETAINER
37	O-RING
39A	BOLT, RETAINER
55	SEAL SEAT
60	SEAL HEAD ASSEMBLY
62	PLUG, 1/8" NPT



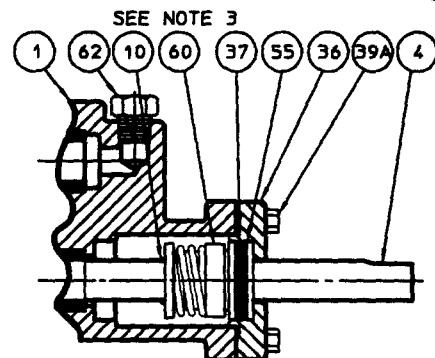
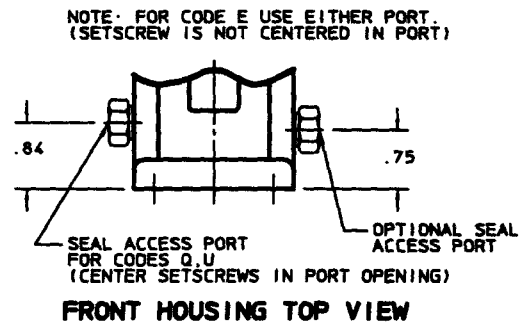
EXTERNAL MECH. SEAL CODE V,W



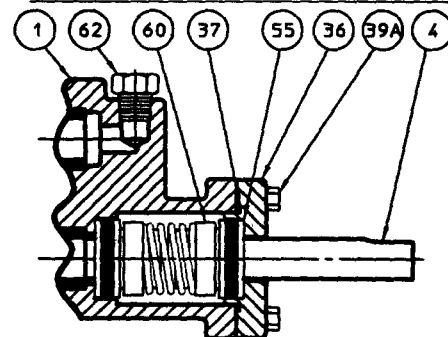
SINGLE MECH. SEAL CODE Q,U



DOUBLE MECH. SEAL CODE E



SINGLE MECH. SEAL CODE A,P



DOUBLE MECH. SEAL CODE C

NOTES

- 1) REFER TO STANDARD SALES BILL OF MATERIALS
- 2) FOR ALL DOUBLE MECHANICAL SEALS CIRCULATE SUITABLE FLUID AT 25-30 PSI ABOVE PUMP DISCHARGE PRESSURE. FLUID TEMPERATURE AND FLOW MUST BE ADEQUATE TO MAINTAIN A MAXIMUM TEMPERATURE OF 450° F IN SEAL HOUSING
- 3) ITEM 10 IS ONLY USED WITH POSITION B SEAL OPTION 'A' & 'P'

UPDATED PICTORIALLY		10/14/98	SECTION/PAGE		C/GA8/0221
REVISION UPDATE		DATE	EFFECTIVE		10/14/98
			SUPERSEDES		12/01/97

ALL DIMENSIONS ARE IN INCHES	
ECO	PULSAFEEDER A Unit of ECO Corporation
GA6/GA8 GEARCHEM PUMP SEAL ARRANGEMENTS CROSS SECTIONAL VIEWS	
DWN BY: PFM	SD-2855
DATE: 05/01/97	

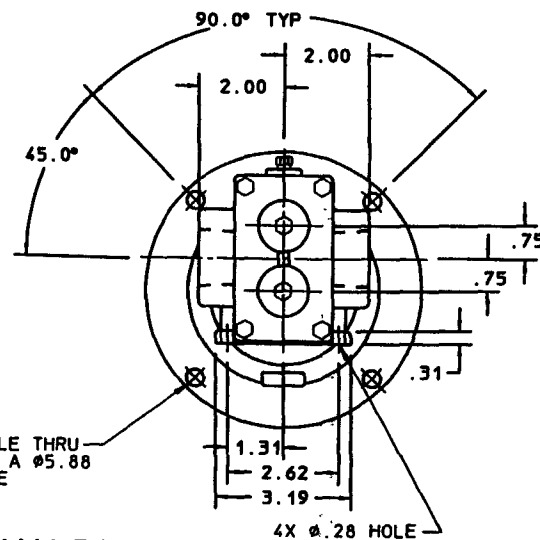
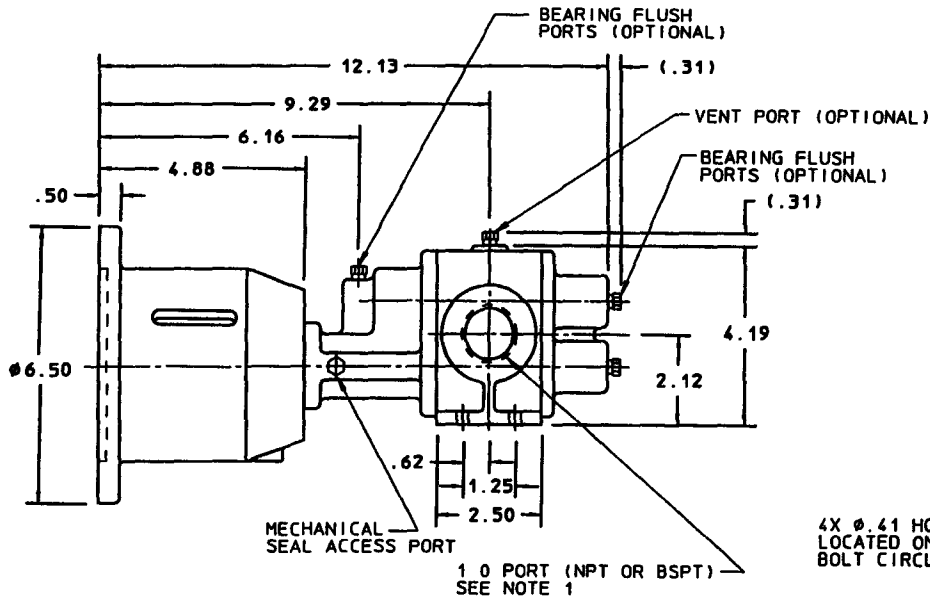
REF A ADD OPTIONAL FLANGE
REVISION UPDATE
DATE 03/27/01

SECTION/PAGE C/GA8/GC8/8224
EFFECTIVE 03/27/01
SUPERSEDES 12/01/97

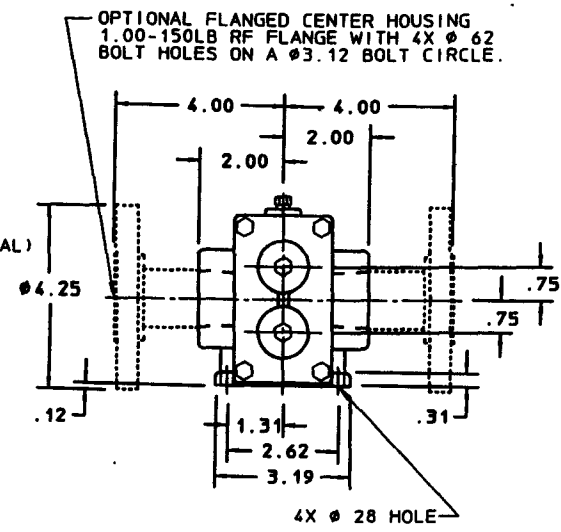
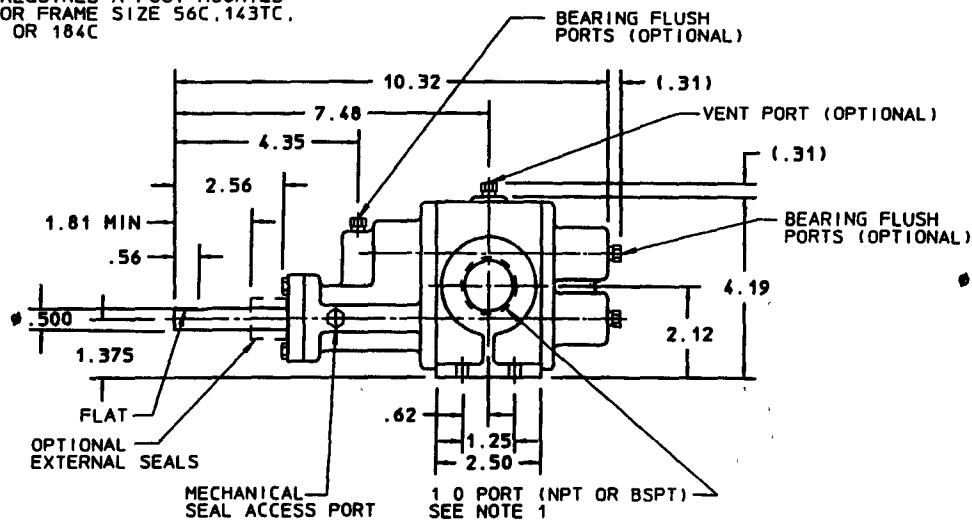
ALL DIMENSIONS ARE IN INCHES
ECO **WILSAFTEER**
A UNIT OF ECK CORPORATION
DIMENSIONAL DRAWING
GA8/GC8 PUMP UNMOUNTED
OWN BY PFH
DATE: 04/28/97
SD-2853

NOTES

- 1) SUCTION AND DISCHARGE PORTS ARE DEPENDENT UPON ROTATION.
- 2) ALL STANDARD AND OPTIONAL PIPE PLUGS ARE .125 NPT.
- 3) MODEL GC8 REQUIRES A FOOT MOUNTED C-FACE MOTOR FRAME SIZE 56C, 143TC, 145TC, 182C OR 184C.



GC8 SINGLE / DOUBLE MECHANICAL SEAL



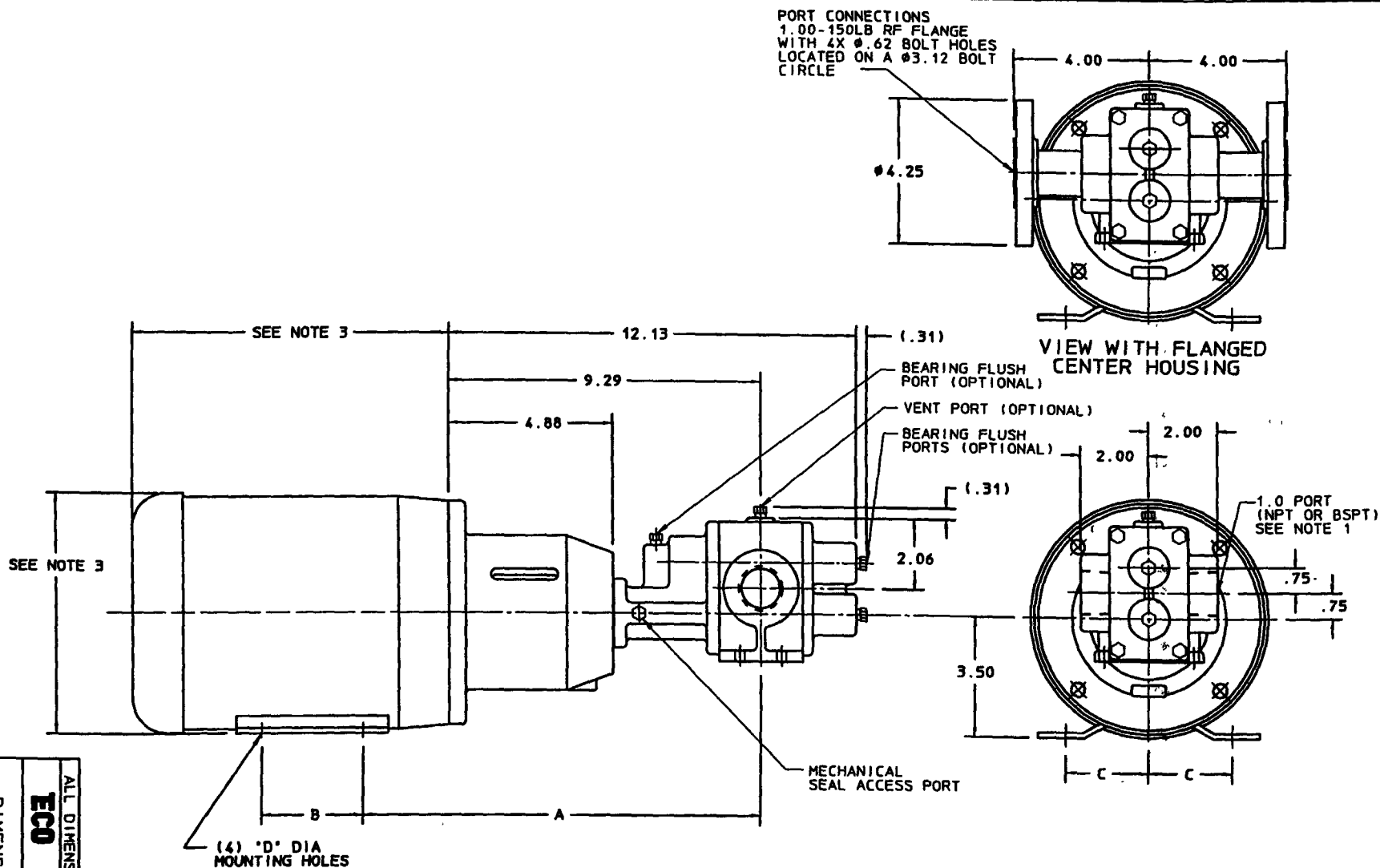
GA8 SINGLE / DOUBLE MECHANICAL SEAL

REF A ADD FLANGE VIEW
REVISION UPDATE
03/27/01
DATE

SECTION/PAGE
EFFECTIVE
12/01/97
SUPERSEDES

OWN BY: PFH
DATE: 11/13/97
SD-2863

ALL DIMENSIONS ARE IN INCHES
ECO
PFH SUPERSEDER
A Unit of DEK Corporation



- NOTES:
- 1) SUCTION AND DISCHARGE PORTS ARE DEPENDENT UPON ROTATION.
 - 2) ALL STANDARD AND OPTIONAL PIPE PLUGS ARE .125 NPT.
 - 3) MOTOR DIMENSIONS VARY BY MANUFACTURER. CONSULT MANUFACTURER'S DRAWING FOR SPECIFICS.

MOTOR FRAME	A	B	C	D	E
56C	11.85	3.00	2.44	.34	3.50
143TC	12.17	4.00	2.75	.34	3.50
145TC	12.17	5.00	2.75	.34	3.50
182C	12.17	4.50	3.75	.41	4.50
184C	12.17	5.50	3.75	.41	4.50

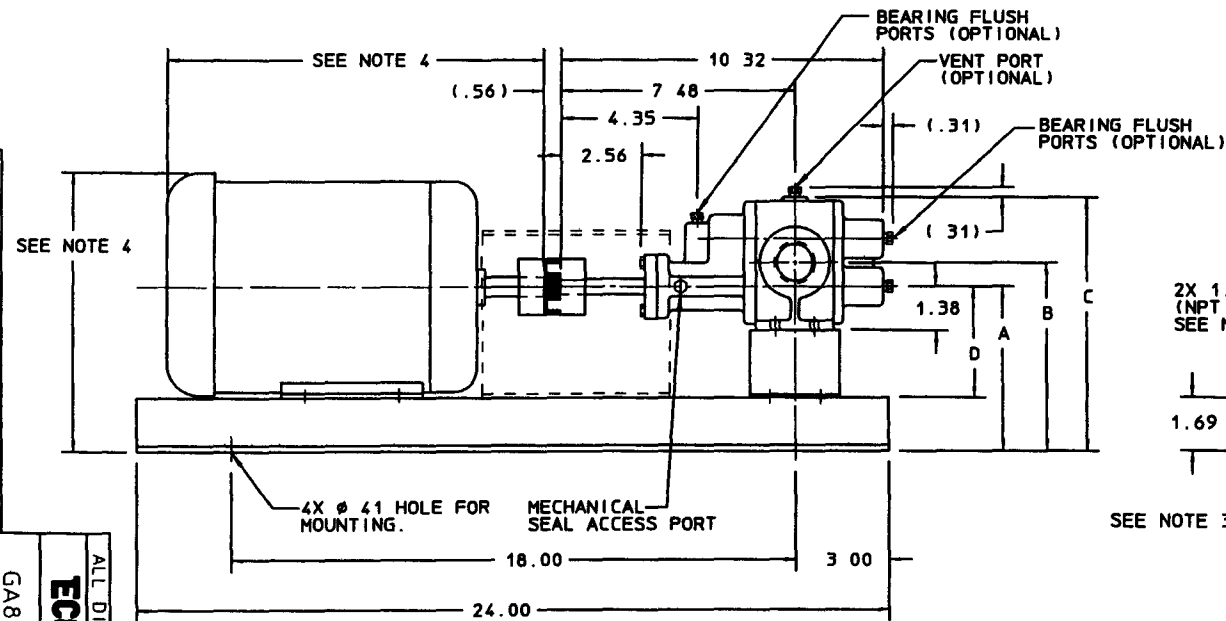
REF A ADD FLANGE VIEW
REVISION UPDATE
DATE 03/27/01

SECTION/PAGE
EFFECTIVE
SUPERSEDES
C/GA8/8226
03/27/01
12/01/97

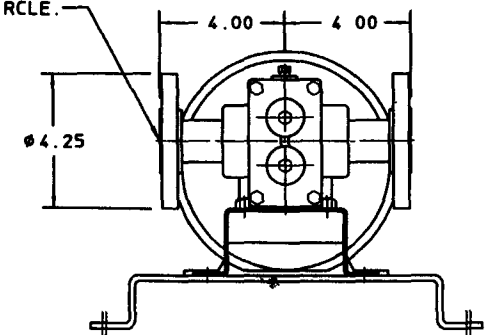
DWN BY PFM
DATE 11/03/97
SD-2879

ALL DIMENSIONS ARE IN INCHES
ECO
SAFARI
A Unit of DEK Corporation

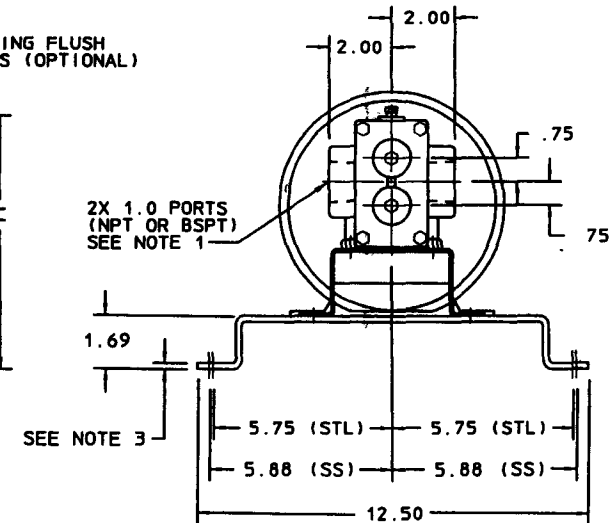
GA8 SERIES MOUNTED
ON BASE PLATE



PORT CONNECTIONS
2X 1.00-150LB RF FLANGE
WITH 4X Ø.62 BOLT HOLES
LOCATED ON A Ø3.12 BOLT
CIRCLE.



VIEW WITH FLANGED
CENTER HOUSING



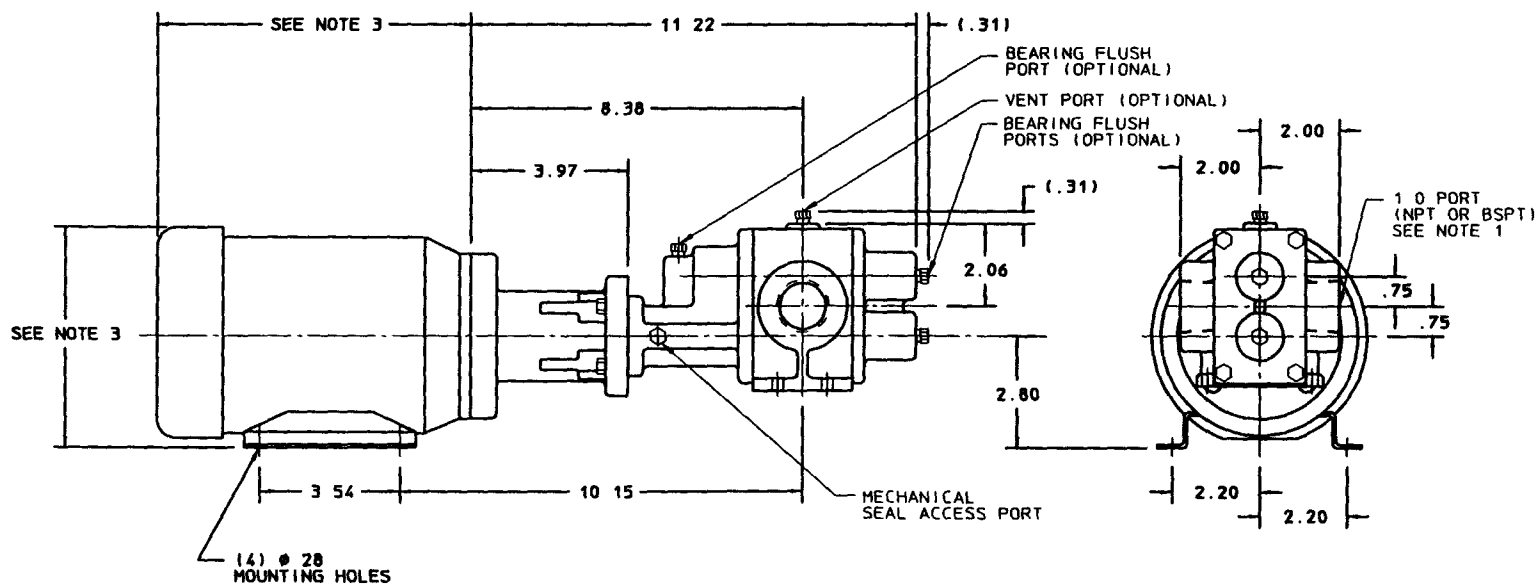
- NOTES:
1. SUCTION AND DISCHARGE PORTS DEPENDENT ON DIRECTION OF PUMP DRIVE SHAFT ROTATION.
 2. ALL STANDARD AND OPTIONAL PIPE PLUGS ARE (1/8" N.P.T.).
 3. MATERIAL THICKNESS:
STAINLESS STEEL .19 THICK
STEEL .14 THICK
 4. MOTOR DIMENSIONS VARY BY MANUFACTURER, CONSULT MANUFACTURERS DRAWING FOR SPECIFICS. BASE WILL ACCOMMODATE MOTOR FRAME SIZES, 56, 143/5T, AND 182/4T.

PUMP SERIES	DIMENSIONS			MOTOR INFO.	
	A	B	C	FRAME	D
GA8	5.19	5.94	8.00	56	3.50
	5.19	5.94	8.00	143/5T	3.50
	6.19	6.94	9.00	182/4T	4.50

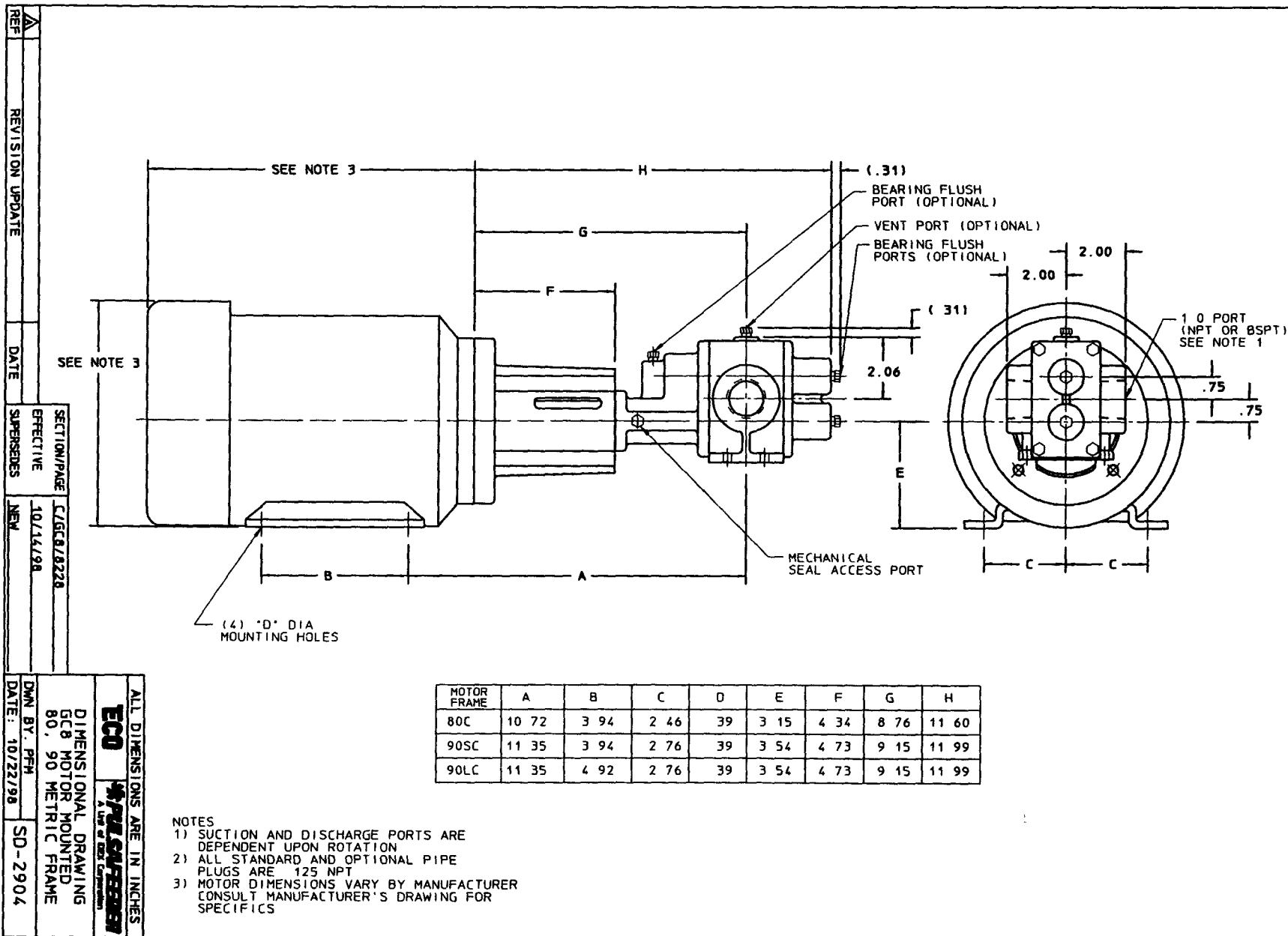
REF	REVISION UPDATE	DATE	SUPERSEDES	NEW

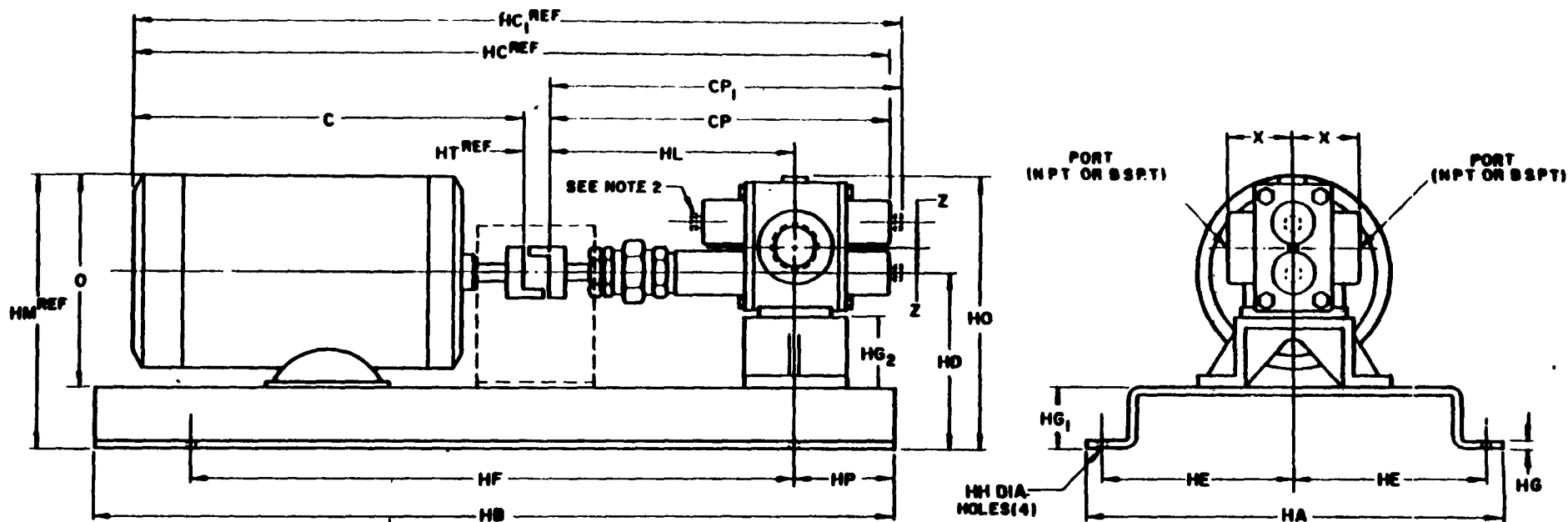
SECTION/PAGE	C/GC8/8227
EEEEEETIVE	10/11/98

ALL DIMENSIONS ARE IN INCHES	
ECO	4-PUL SAFETYBAR A Unit of IDEC Corporation
DIMENSIONAL DRAWING	
ECO MOTOR MOUNTED	



NOTES





NOTES: 1. SUCTION AND DISCHARGE PORTS DEPENDENT ON DIRECTION OF ROTATION
2. BEARING FLUSH PLUGS (1/8 N.P.T.) OPTIONAL.

DIMENSIONS INCHES																						
PORTS	C	CP	CP ₁	HA	HB	HC	HC ₁	HD	HE	HF	HG	HG ₁	HG ₂	HH	HL	HM	HO	HP	HT	O	X	Z
1		10 $\frac{1}{8}$	10 $\frac{1}{8}$	12 $\frac{1}{2}$	24			5 $\frac{3}{8}$	5 $\frac{3}{8}$	18	3 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{1}{8}$	13 $\frac{1}{32}$	7 $\frac{1}{2}$		8 $\frac{1}{8}$	3	3 $\frac{1}{4}$		2	3 $\frac{1}{4}$
		261.9	276.2	317.5	609.6			131.7	146.0	457.2	4.7	42.8	54.0	10.3	190.5		204.7	76.2	19.0		50.8	19.0
MOTOR DATA	FRAME	HP	RPM	PHASE / HZ / VOLTS																		
ENCLOSURE	MFR																					

NOTE: PRINTED DIMENSIONS SHOWN FOR MOTOR
FRAME SIZES 56, 143T & 145T

ECO PUMP CORPORATION
SOUTH PLANFIELD, N.J. USA

G8 SERIES
MOUNTED ON BASE PLATE

CUSTOMER _____

P.O. NO. _____

ECO ORDER NO _____ PUMP MODEL NO _____

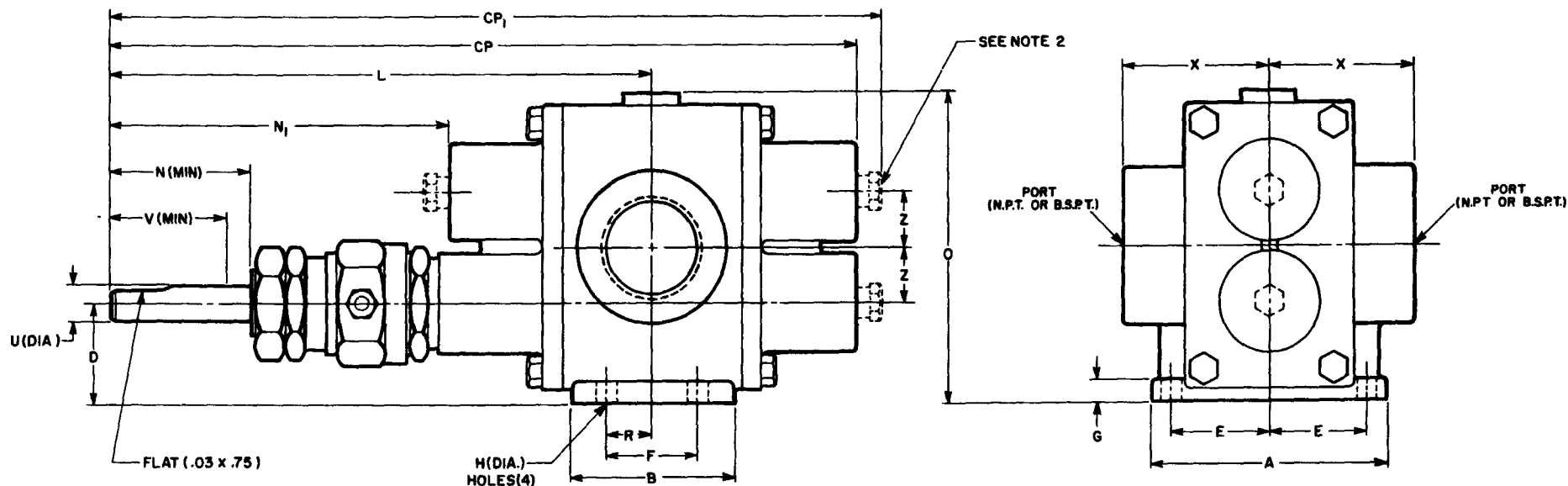
ITEM NO _____

CERTIFIED BY _____

DATE _____

DWN BY
DATE

SD - 2529



NOTES: 1. SUCTION AND DISCHARGE PORTS DEPENDENT UPON DIRECTION OF ROTATION.
2. BEARING FLUSH PLUGS (1/8 N.P.T.) OPTIONAL.

DIMENSIONS																		
INCHES																		
MM																		
PORTS	A	B	CP	CP ₁	D	E	F	G	H	L	N	N ₁	O	R	U	V	X	Z
1	3 ³ / ₁₆	2 ¹ / ₈	10 ⁵ / ₁₆	10 ⁷ / ₁₆	1 ³ / ₈	1 ¹ / ₈	1 ¹ / ₄	1 ¹ / ₃₂	7 ⁹ / ₃₂	7 ¹⁵ / ₃₂	2	4 ¹ / ₂	4 ¹ / ₄	5 ¹ / ₈	1 ¹ / ₂	1	2	3 ¹ / ₄
	80.9	53.9	261.9	276.2	24.9	33.3	31.7	8.7	7.1	189.7	50.8	114.2	107.9	15.8	12.7	25.4	50.8	19.0

ECO PUMP CORPORATION
SOUTH PLAINFIELD, N.J. U.S.A.

G8 SERIES
UNMOUNTED PUMP

CUSTOMER _____

PO NO _____

ECO ORDER NO _____ PUMP MODEL _____

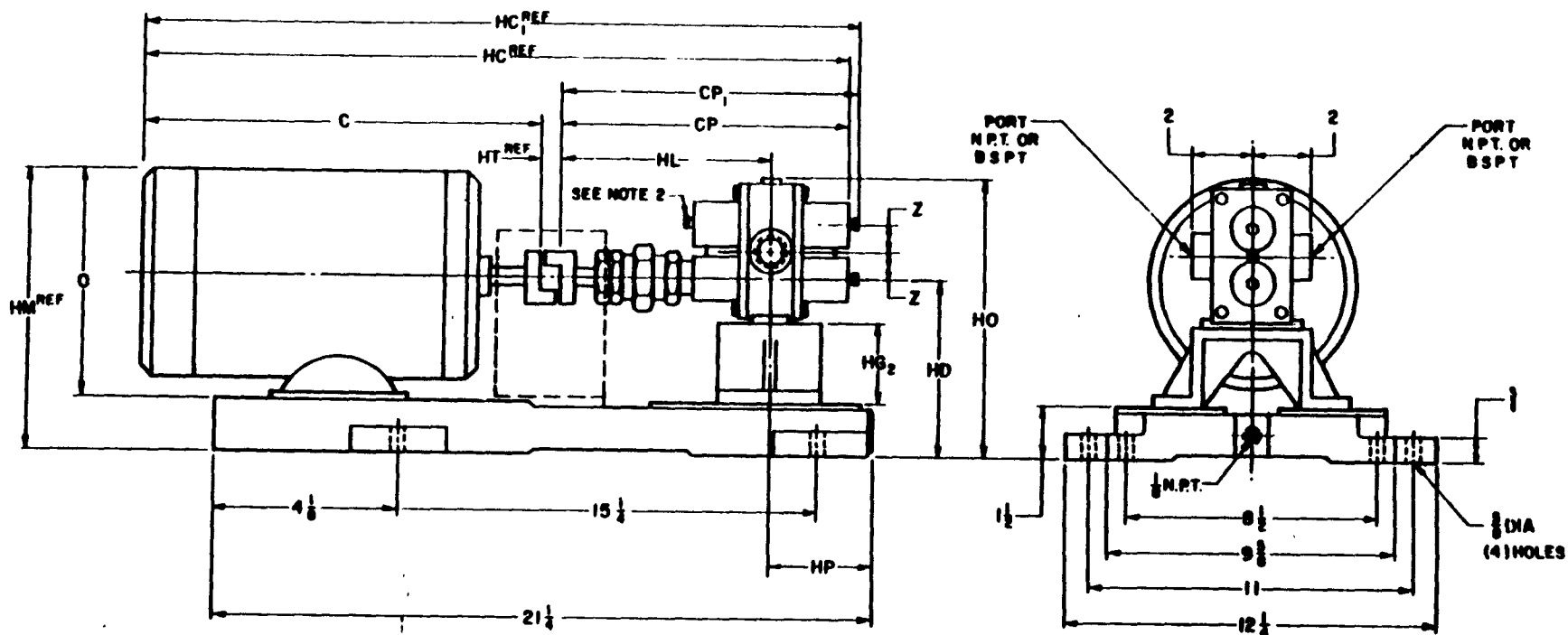
ITEM NO _____

CERTIFIED BY _____

DATE _____

DWN BY
DATE

SD-2530



NOTES

1. SUCTION AND DISCHARGE PORTS DEPENDENT ON DIRECTION OF ROTATION
2. BEARING FLUSH PLUGS (1/2 N.P.T.) OPTIONAL

DIMENSIONS														
PORTS	C	CP	CP ₁	HC	HC ₁	HD	HS ₂	HL	HM	HO	HP	HT	O	Z
1		10 $\frac{3}{16}$	10 $\frac{1}{8}$			5	2 $\frac{1}{8}$	7 $\frac{1}{2}$		7 $\frac{1}{8}$	8 $\frac{1}{16}$	$\frac{3}{4}$		$\frac{3}{4}$
		261.9	276.2			127.0	53.9	190.5		200	214	19.0		19.0
MOTOR DATA	FRAME	H.P.		R.P.M.		PHASE / HZ / VOLTS								
ENCLOSURE		MFR												

ECO PUMP CORPORATION
SOUTH PLAINFIELD, N.J. U.S.A.

G8 SERIES MOUNTED
ON DRIP RIM BASE

CUSTOMER _____
ECO ORDER NO. _____ PUMP MODEL NO. _____
CERTIFIED BY _____

P.O. NO. _____
ITEM NO. _____
DATE _____

OWN BY: _____
DATE _____

SD-2541