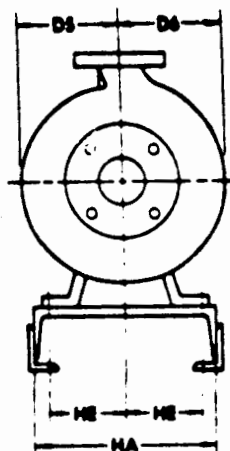
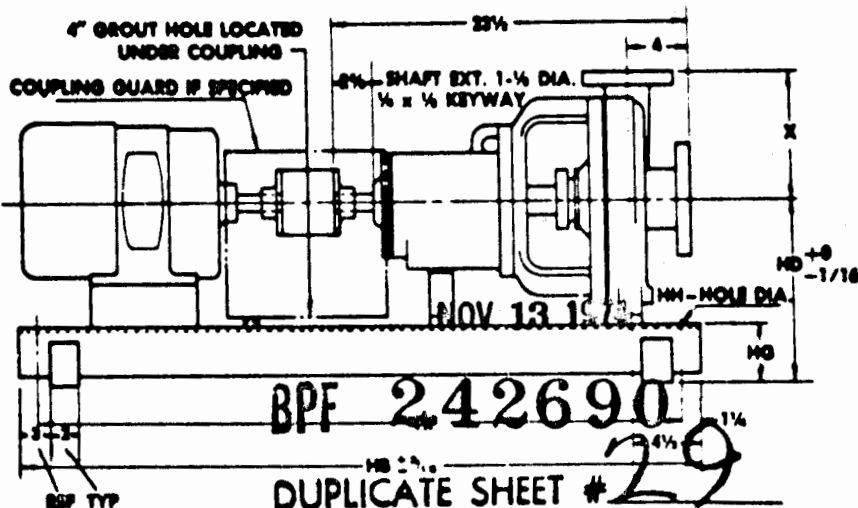


DURCO MARK II PUMPS Group II Dimension Drawings

13" IMPELLERS & 10H-150# FLANGE

Certified: _____

By: _____



Standard Sizes

Std. Pump	Std. No.	Suct. Size	Dis. Size	X	D	D1	D2	D3	D4	D5	D6	L7	Bare Pump WL
4 x 3-10H	A40A	4	3	12 1/2	10	7	1 1/2	2	1 1/4	6 1/4	8 1/2	2 1/2	249
3 x 1 1/2-13	A20	3	1 1/2	10 1/2	10	7 1/2	1 1/2	1 1/4	1 1/4	8 1/4	8 1/4	2	250
3 x 2-13	A30	3	2	11 1/2	10	7 1/2	1 1/2	1 1/4	1 1/4	8 1/4	8 1/4	2	258
4 x 3-13	A40	4	3	12 1/2	10	8	1 1/2	2	1 1/4	8 1/4	9 1/2	2 1/2	281
6 x 4-13A	A80	6	4	13 1/2	10	8 1/2	3	2 1/2	1 1/4	9	10 1/4	—	344

Baseplate Dimensions

Baseplate	Max. Motor Frame	HD	HA	HB	HE	HF	HG (Max.)	HH	WL
52	215T 215	13 1/4	12	45	4 1/2	42 1/2	3 3/4	3/4	115
53	284T 286T	14 1/4	15	52	6	49 1/2	4 1/4	3/4	178
54	326T 326U 365T 365U	14 1/4	18	58	7 1/2	55 1/2	4 3/4	1	234
55	404T 404TS 404US	15	18	60	7 1/2	57 1/2	4 3/4	1	304
56	405TS 405US 444TS 444US 445US	15	18	61 3/4	7 1/2	59 1/4	4 3/4	1	312

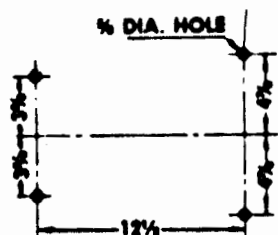
Flange Drilling

Size	No.	Size	B.C.
1 1/2	4	3/4	3 3/4
2	4	3/4	4 1/4
3	4	3/4	6
4	8	3/4	7 1/2
6	8	3/4	9 1/2

Optional Connections

Item	Part
I	Casing Drain
II	Suction Nozzle Gage Connection
III	Discharge Nozzle Gage Connection
IV	Auxiliary Connection
VI	Flush Connection for Mechanical Seal
VII	Bottom Tap in Stuffing Box

Bare Pump Mounting Holes

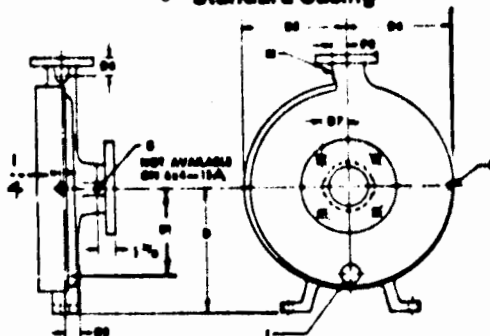


Optional Features

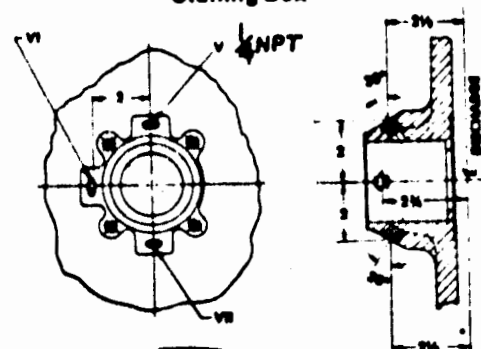
Jacketed Cover* (P-1021-1)
Jacketed Box* (P-1021-2)
Jacketed Casing* (P-1021-3)
Jacketed Brg. Hsg.* (P-1021-4)
Combined Jacketed Cover & S.B. 3 x 2-7 only* (P-1021-5)
Special Baseplate* (P-1021-6)

*Separate Drawing Attached When Applicable

Standard Casing



Stuffing Box



Dimension Drawing P-10-314

THE DURIRON COMPANY INC., DAYTON, OHIO

Printed in U.S.A.

THE WHITE COPY WILL REPRODUCE BY DIAZO PROCESS

ENGINEERING STD G4P, JAN 1972

PROGRAM
TR-PR-201405OLD HICKORY
PLANT50-2356
SPEC NO.

PUMP PROCUREMENT DATA

MANUFACTURER

DURIRON

1772
PROJECT1-18-74
DATE1
REV PAGE

N.I.P.		PUMP			
		1	2	3	4
GENERAL	(K) Transaction	1702	1702	1702	1702
	(C) DA (or FA) No.	1000-8-11	1006-8,9	1006-10,11	1007-8,9
	(Q) Quantity	4	2	2	2
	1 Manufacturer's Model No.	MKII GRP2	MKII GRP2	MKII GRP2	MKII GRP2
OPERATING COND	2 Size	3X1 1/2-13/102	3X2-10/82	4X3-10/90	6X4-13A/122
	3 Std Engrg Spec No./Class	SG3P 11	SG3P 11	SG3P 11	SG3P 11
	4 Fluid	SLURRY	LIQUID	LIQUID	LIQUID
	5 Solids (Describe-Size)	FINE - NON ABRASIVE	-	-	-
	6 Capacity - Min/Norm/Max - GPM	115	324	249	602
	7 Total Dynamic Hd (At Above Cap.) Ft	447	220	67	149
	8 Suction Pressure - PSIA/Flood or Lift	15.8 FLD	7.3 FLD	23.9 FLD	24.7 FLD
	9 NPSH - Avail/Req'd - Ft	14.9 5.6	17 12	15.7 2.3	39 5.0
	10 Operating Temperature - °C	50	36	179	60
	11 Vis - cp/Sp Gr (At Op Temp)	5.0 1.04	.7 .87	.43 .9	.36 .753
	MAT'L OF CONST	12 Casing and Cover	316SS	316SS	316SS
13 Impeller		316SS	316SS	316SS	316SS
14 Wear Rings - Case/Impeller		-	-	-	-
15 Shaft/Shaft Sleeve		CS DC8	CS DC8	CS DC8	CS DC8
16 Gland/Studs		D-100 SS	D-100 SS	D-100 SS	D-100 SS
17 Drip Pan		YES	YES	YES	YES
18 Base or Mounting Plate		DRILL FOR STILTS	1"	1"	3/4"
19 Stilts		NONE	NONE	NONE	NONE
20 Material of Column		FOLLOWER JOINT	GASKET	GASKET	GASKET
VERT	21 Material of Sleeve-Bearing "	STYLE	CLAMPED	CLAMPED	CLAMPED
	22 Setting	" FLUSH DRILL	YES-2	YES-2	YES-2
	23 Performance Curve No.	MII 7303AV	MII 7810AV	MII 7902AV	MII 8125V
POWER	24 Impeller Diameter - Selected/Max	10 1/4 13	8 1/4 10	9 10	12 1/4 13
	25 BHP with Selected Imp. - Op Cond/Max	44.1 72.2	26.5 38.3	5.8 8.6	27.4 52.3
	26 Dir of Rotation from Drive End/RPM	CW 3500	CW 3500	CW 1750	CW 1750
	27 Driver HP/Enclosure	75 TEFC	40 TEFC	10 TEFC	50 TEFC
	28 Volts/Phase/Cycles or Stm ISP/T/Exh P	460 3 60	460 3 60	460 3 60	460 3 60
	29 Motor Frame No.	365TS	324TS	215T	326T
	AUXIL	30 Coupling - Manufacturing/Type	WOODS/SC-8	WOODS/SC	WOODS/SC
31 Coupling Guard		SGM-1	SGM-1	SGM-1	SGM-1
32 Gasket - Du Pont Code (SU2A)		G1	G1	G1	G1
33 Mechanical Seal or Packing Code (SU1C)		NOTE A+B	NOTE A+C	NOTE A+B	NOTE A+B
34 Stuffing Box - Special Features		NOTE C	-	-	-
35 Temporary Lip Seal and Gland		YES	YES	YES	YES
36 CASING DRAIN		YES	YES	YES	YES
37 TRICO OILER		YES	YES	YES	YES
38 FLANGE - SUCT/DISH.		-	-	6X4/4X3	-
MISC		39 Weight - Pump, Base, and Coupling	-	-	-
	40 Painting	YES	YES	YES	YES
	41 NOTES	-	-	150*, E, F, G	-
PRICE	42 Pump, Base, Coupling, and Guard	-	-	-	-
	43 Mechanical Seal	-	-	-	-
	44 Motor and/or Drive	NO	NO	NO	NO
	45 Mount Du Pont Drive	YES	-	-	-
	46	-	-	-	-
	47 Total Unit Price	-	-	-	-
	48 Shipment	-	-	-	-
	NOTE	A	MECHANICAL SEAL SHOULD BE SEPARATELY IDENTIFIED & SHIPPED		
B		CRANE TYPE 9 QF311DH (316)			
C		CRANE THROTTLE BUSHING TYPE 24SL WITH SPECIAL SNAP RING			
D		GROOVE IN FOLLOWER FLANGE FOR "O" RING GASKET			
E		FULL JACKETED PUMP & REAR PLATE - JACKETED GLAND PLATE			
F		REDUCING FLANGES TO FIT JACKETED PIPE			

NOTE - THIS DOCUMENT IS THE PROPERTY OF E. I. DU PONT DE NEMOURS AND COMPANY. THE TECHNICAL INFORMATION HEREON MAY NOT BE USED NOR REPRODUCED WITHOUT THE PERMISSION OF DU PONT.

TRANSACTION KEY: N - NEW U - UPDATE X - CANCEL

VENDOR AND SIGNATURE

PROPOSAL NO.

DATE

OHC-2356-W, PRO-I # 1772, OLD HICKORY
 DA 1702-1000-8, 9, 10, 11

S.H.P.

T.D.H.
IN
FEET

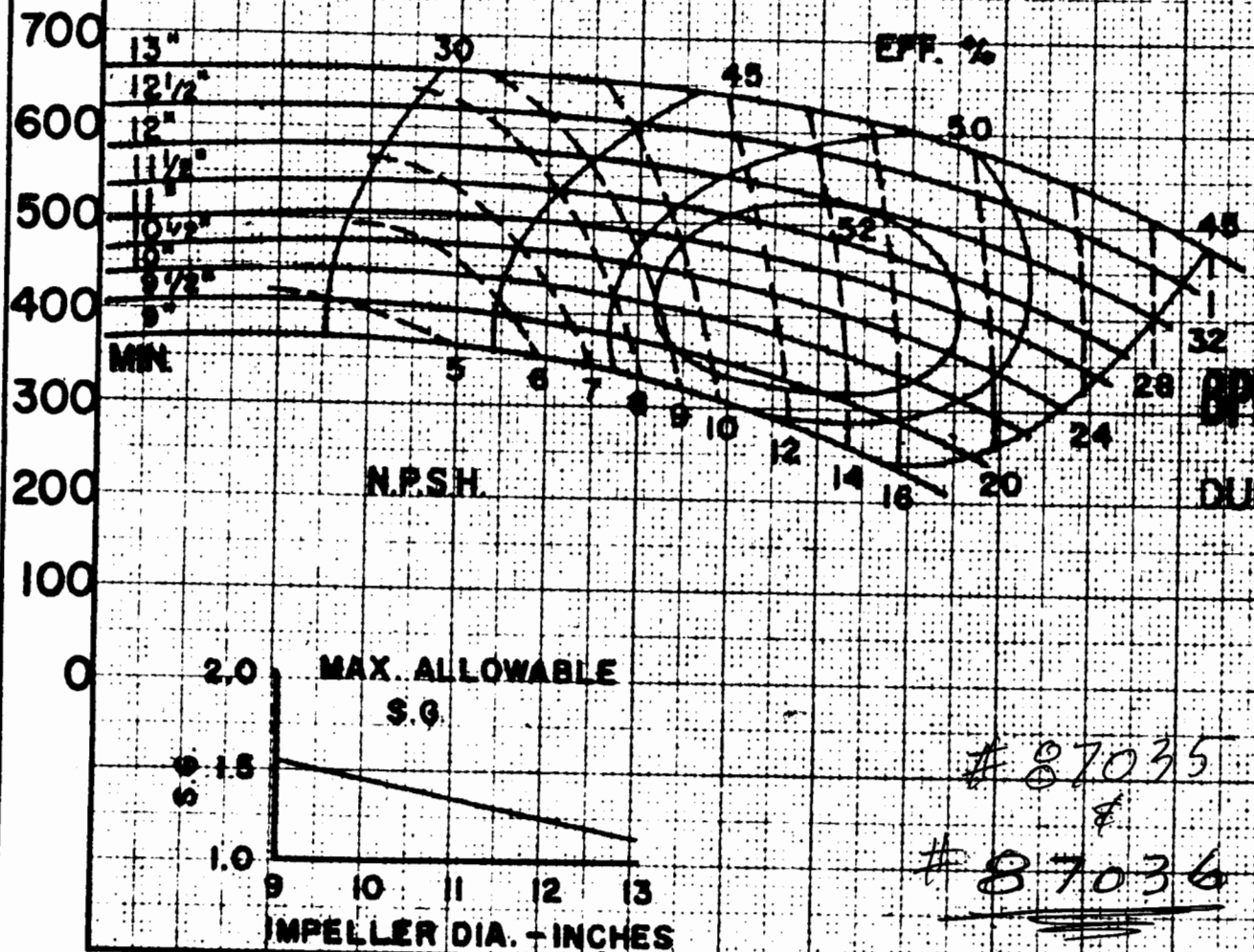
THE DURIRON COMPANY, INC.

DAYTON, OHIO
 DURCOPUMP PERFORMANCE
 CHARACTERISTICS

EYE AREA 5.55 SQ. IN.
 MAX. SPHERE 19/32 IN.
 IMP. PATT. CT-21854A
STD. NO. -A20

DURCO MARK II
3X1½-13
 SPEED 3550 R.P.M.
 CURVE NO. M II 7303 AV

CURVES SHOW APPROXIMATE CHARACTERISTICS WHEN PUMPING CLEAR WATER.



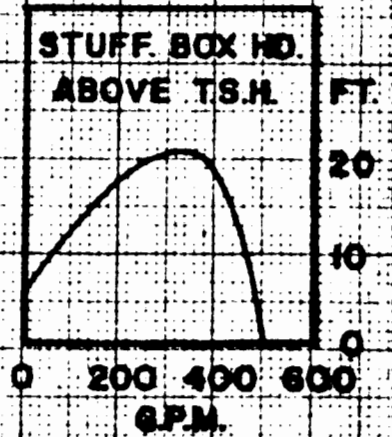
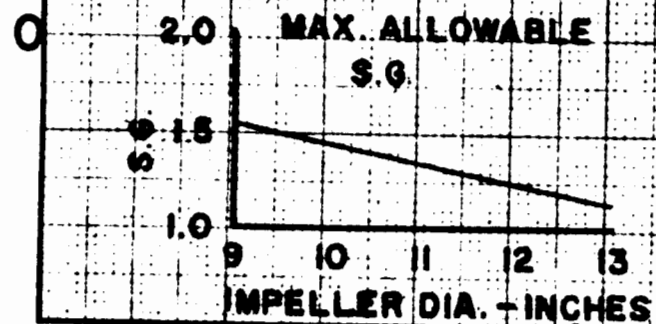
**HORSEPOWER CURVES
 SHOWN BELOW.
 TO CALCULATE EXACT
 EFFICIENCY, USE THE
 FOLLOWING:**

$$\% \text{ EFF.} = \frac{\text{TDH} \times \text{GPM}}{\text{HP} \times 3960}$$

MAY 19 1978

HP 242690

DUPLICATE SHEET # **71**



#87035
 #87036

0 80 160 240 320 400 480 560

CAPACITY U. S. GALLONS PER MIN.

12/65