

BINGHAM
INTERNATIONAL**SERIAL No.**

1C255/256

PUMP TYPE

MSD-D

SIZE

3x6x9E

IDENTIFICATIONP.O. NO.
ITEM NO.LA29306
N/A**SPECIFICATIONS**

SERVICE	BOILER FEED PUMPS		
PUMPAGE	BOILER FEED	@ sp gr	309 .915 °F
CAPACITY, gpm	492	HEAD SPEED	3850 3560 ft rpm

EQUIPMENT
STUFFINGBOX ☐ PACKED ☒ MECHANICAL SEAL ☐ PACKINGLESS

VENDOR
TYPE SEALOL
676
BEARINGS
VENDOR
TYPE THRUST BALL RADIAL SLEEVE
DRIVER
VENDOR LOUIS-ALLIS
FRAME NO. 7110BS hp 700
VENDOR
FRAME NO. hp
COUPLING
VENDOR THOMAS
TYPE SERIES 71 SIZE 375

(* INDICATES SUPPLIED BY CUSTOMER)

BINGHAM STD. PUMP

NPSH-FT.
20

NPSHA @ 1 MP.

NPSHR @ 1 MP.

EFF. %

MAX. DIA.

HEAD

MINIMUM FLOW

100% EFF.

BHP

BHP @ 0.915 S.P.G.R.

GALLONS PER MINUTE

EBASCO/GENSTAR
BOILER FEED PUMP
PROJECT # GEN-M-7

PUMP ENGINEERING DEPT.
BINGHAM-WILLAMETTE COMPANY
PORTLAND, OREGON & SHREVEPORT, LA.
BINGHAM-WILLAMETTE LTD.
VANCOUVER, B.C. & CAMBRIDGE, ONTARIO

IMPELLER MAX. DIA. 3 1/8" 10 1/8"	3 x 6 x 9 E MSD-D 12 STG.	PUMP
MIN. DIA.		
DIA. EYE 9.9 1/8"		3560 R.P.M.
SQ. AREA 18		CURVE NO. 43572
IN. 18		

CONTENTS

SERIAL No. 1C255/256

BINGHAM
INTERNATIONAL

INFORMATION

MANUAL	MSD 185
SUPPLEMENT, "DB" ball thrust brg. installation	MSD-485
CROSS SECTION BEARING	B-43234 B-41150
OUTLINE WIRING DIAGRAM	D-1C255-02 B-1C255-06

VENDOR INFORMATION

MECHANICAL SEAL DRAWING	SEALOL SEALOL	RA#5416 C549604-01
COUPLING	THOMAS	SERIES 71
DRIVER OUTLINE	LOUIS-ALLIS LOUIS-ALLIS (2 SHEETS)	3385M 7-J44607-X



Form No 1132

Parts List

PUMP: 12 STAGE DOUBLE SUCTION
DOUBLE VOLUTE PUMP**PUMP SERIAL NO.**
1C255/6**TYPE:** MSD-D**SHEET** 1 **of** 3
NO.**DRAWING**
NO. B-43234

ITEM NO.	PART NO.	QTY.	DESCRIPTION
100	1823450	1	CASE
123	2175800	1	GASKET, CASE (NOT SHOWN)
135	1039334	25	PIN, DOWEL (SMALL)
136	1039415	2	PIN, DOWEL (LARGE)
203	1269887	1	CASE, RING - (STG. 1)
204	1823477	1	CASE, RING - (STG. 1)
206	1269887	11	CASE, RING (SERIES)
208	1801538	1	STAGE PIECE (BETWEEN 1 & 2)
209	1164848	9	STAGE PIECE (SERIES)
210	1812793	1	STAGE PIECE (CENTER)
215	1119877	1	BUSHING, THROTTLE
218	1823485	2	BUSHING, THROAT
222	1115553	1	RING, IMP. (STG. 1 - SUCTION SIDE)
223	1823493	1	RING, IMP. (STG. 1 - DISCH. SIDE)
225	1115553	11	RING, IMPELLER (SERIES)
226	1115596	9	RING, IMPELLER (HUB)

Unnumbered parts in the illustrations are the same as corresponding parts with numbers.

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Parts List

PUMP: 12 STAGE DOUBLE SUCTION DOUBLE VOLUTE PUMP		PUMP SERIAL NO. 1C255/6
TYPE: MSD-D	SHEET NO. 2 of 3	DRAWING NO. B-43234

ITEM NO.	PART NO.	QTY.	DESCRIPTION
231	1823507	1	SHAFT SLEEVE (BETWEEN 1 & 2)
232	1812807	1	SHAFT SLEEVE (CENTER)
233	1119710	1	SHAFT SLEEVE (THROTTLE)
241	1823515	1	IMPELLER (STG. 1)
242	1823523	1	IMPELLER (STG. 2)
243	1823531	1	IMPELLER (STG. 3)
244	1823558	1	IMPELLER (STG. 4)
245	1823566	1	IMPELLER (STG. 5)
246	1823574	1	IMPELLER (STG. 6)
247	1823532	1	IMPELLER (STG. 7)
248	1823590	1	IMPELLER (STG. 8)
249	1823604	1	IMPELLER (STG. 9)
250	1823612	1	IMPELLER (STG. 10)
251	1823620	1	IMPELLER (STG. 11)
252	1823639	1	IMPELLER (STG. 12)
263	1823647	1	SHAFT, PUMP

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Parts List

PUMP: 12 STAGE DOUBLE SUCTION
DOUBLE VOLUTE PUMP

PUMP SERIAL NO.
1C255/6

TYPE: MSD-D

SHEET 3 of 3
NO.

DRAWING
NO. B-43234

ITEM NO.	PART NO.	QTY.	DESCRIPTION
265	1115855	13	RING, THRUST (IMPELLER & SLEEVE)
268	1623788	1	SHOULDER RING
269	1061828	10	RING, RETAINING
270	1061798	1	RING, RETAINING
272	1401688	1	KEY (STG. 1)
273	1138693	1	KEY (THROTTLE SLEEVE)
274	1623796	1	KEY (BETWEEN 1 & 2 STG.)
275	1401688	9	KEY (SERIES IMPELLER)
276	1401718	1	KEY (IMPELLER & CENTER SLEEVE)
277	1401696	1	KEY (FINAL IMPELLER)
			FASTENERS REQUIRED (NOT ILLUSTRATED)
112	1050516	62	STUD, CASE (STANDARD TAP DEPTH)
113	1050532	2	STUD, CASE (LONG THRU BOSS)
114	1050508	3	STUD, CASE (SHORT)
116	1105639	67	CAPNUTS (CASE STUDS)

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Parts List

PUMP: #1 SLEEVE JOURNAL/BALL THRUST
BEARING ASSEMBLY

PUMP SERIAL NO.

1C255/6

TYPE:

SHEET

NO. 1 of 2

DRAWING

NO. B-41150

ITEM NO.	PART NO.	QTY.	DESCRIPTION
263	1823647	1	SHAFT, PUMP
278	1107674	1	KEY (SHAFT EXT.)
281	1105736	1	LOCKNUT (SHAFT EXT.)
302	1404806	1	BEARING, HSG. ASS'Y. (DRIVE END)
304	1405136	1	BEARING, HSG. ASS'Y. (THRUST END)
306	1408798	2	JOURNAL BEARING ASSEMBLY
322	1398067	2	GASKET (OIL COOLER TO BRG. HSG.)
323	1823663	3	INSERT (BRG. HSG.)
324	1064754	2FT	SEAL, INNER (OIL COOLER TO BRG. HSG.)
325	1137565	1	COOLER, OIL (THRUST END)
326	1064762	1	COOLER, OIL (DRIVE END)
329	1000519	1	NUT, LOCK (BEARING)
333	1002902	1	WASHER, LOCK (BEARING)
334	1064711	5	PLUG, INSPECTION W/O-RING
336	1135368	1	COVER, BEARING
337	1056220	1	O-RING (COVER)

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Form No 1132

Parts List

PUMP: #1 SLEEVE JOURNAL/BALL THRUST
BEARING ASSEMBLY

PUMP SERIAL NO.

1C255/6

TYPE:

SHEET 2 of 2
NO.DRAWING B-41150
NO.

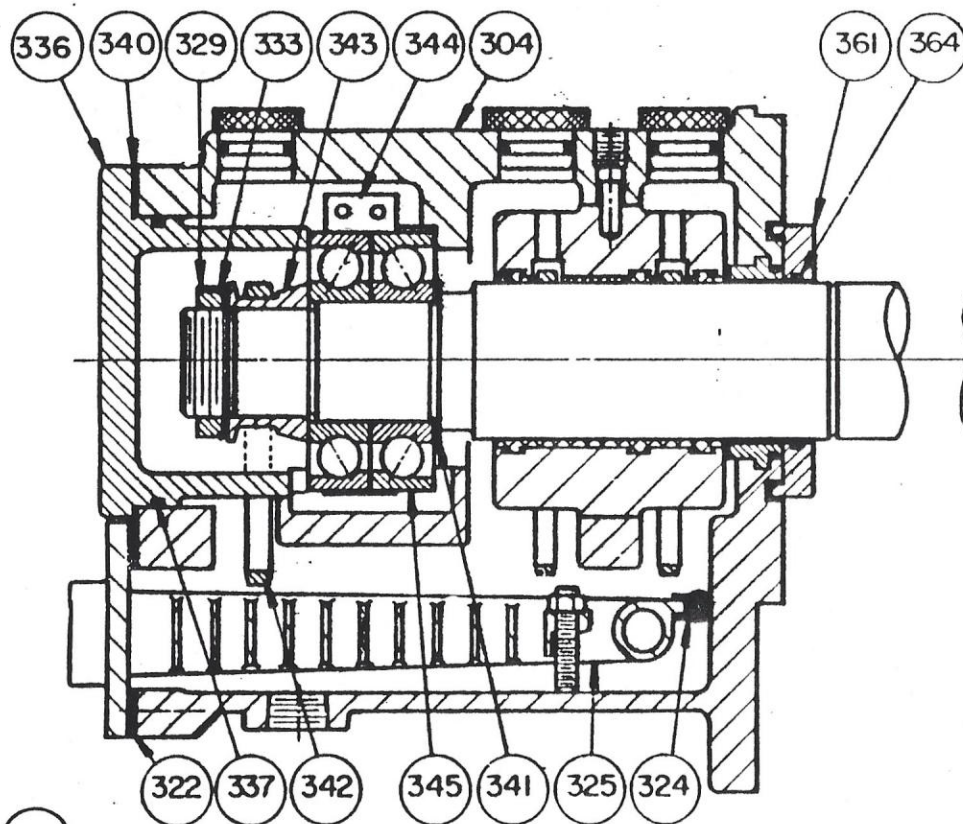
ITEM NO.	PART NO.	QTY.	DESCRIPTION
338	1524305	3	O-RING (INSERT)
340	1106287	1	SHIM SET (END COVER)
341	1106309	1	SHIM SET (THRUST BEARING)
342	1125222	1	RING, OIL (THRUST BEARING)
343	1125249	1	SLEEVE, OIL RING MOUNTING
344	1106279	1	RING, RETAINER (BEARING)
345	1063502	1PR	BEARING, THRUST (ANGULAR CONTACT)
348	1507206	2	OILER, TRICO W/GUARD
360	1411640	4	RING, OIL (JOURNAL BEARING)
361	1823655	3	DISC. DEFLECTOR
364	1055976	3	O-RING (DEFLECTOR DISC)

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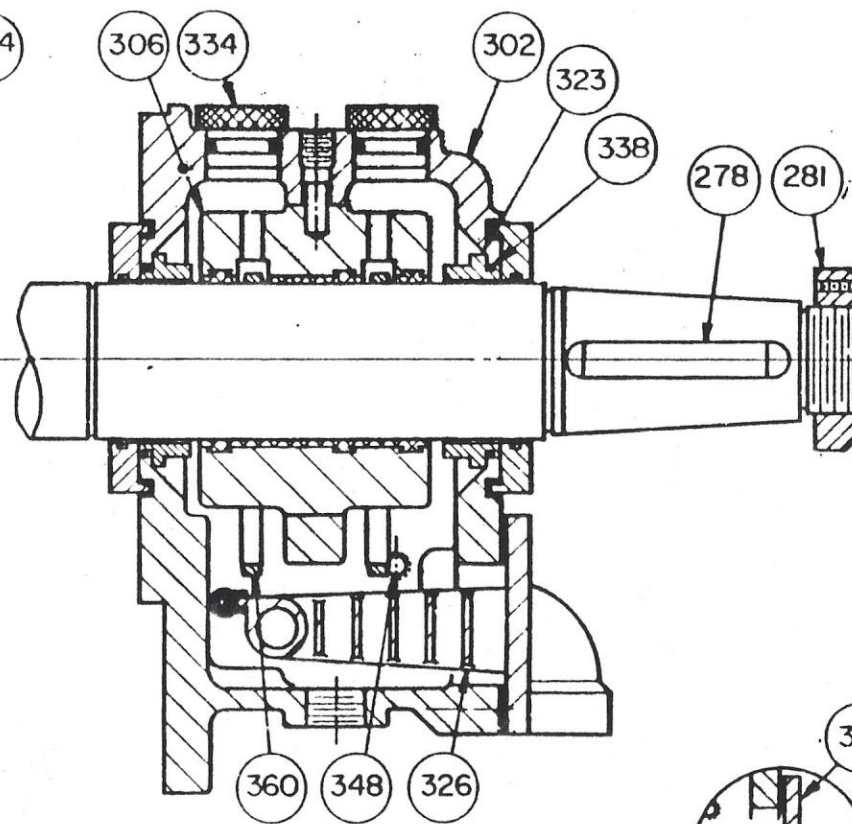
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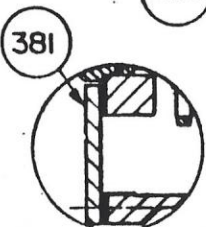
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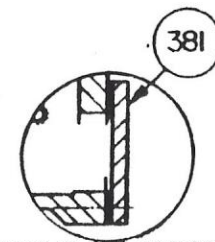
THRUST END



DRIVE END



COVER PLATE OPTION



COVER PLATE OPTION



Bingham

SLEEVE JOURNAL / BALL
THRUST BEARING ASSEMBLY

B-41150