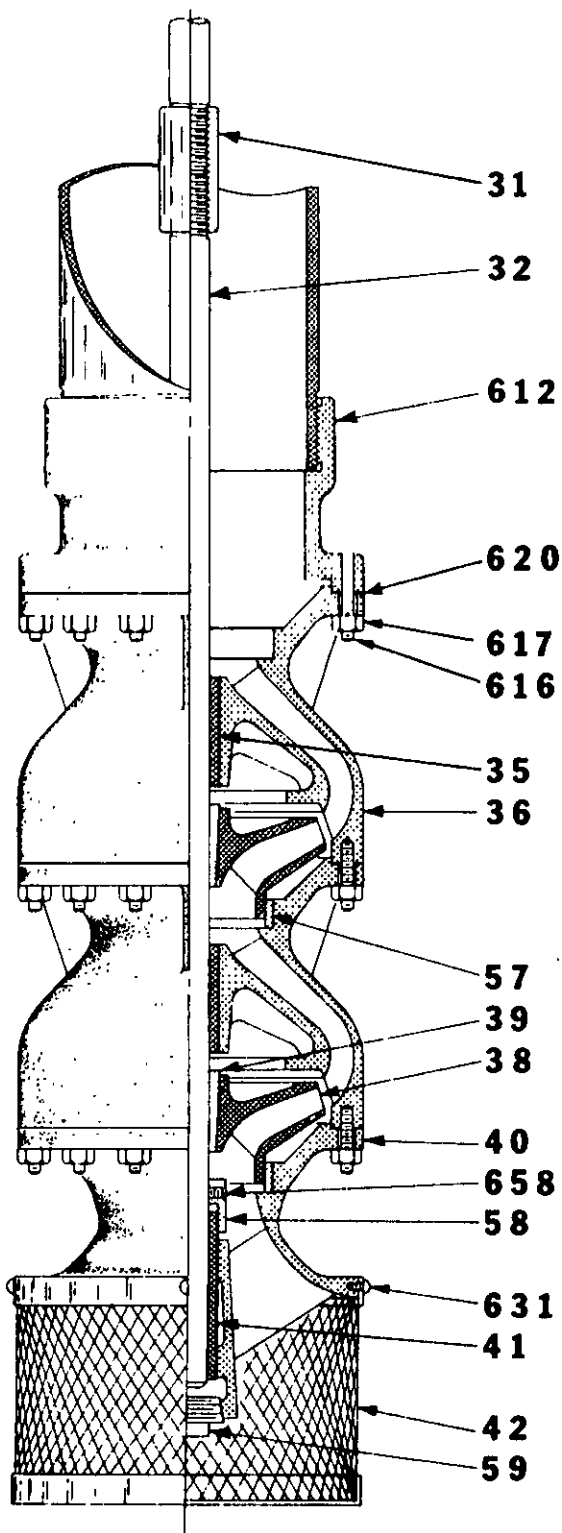


SECTIONAL DRAWING
15 DR SHORT COUPLED BOWL
 OPEN LINE SHAFT
 THREADED DISCHARGE CONN.

SECTION 9100
 DRWG. NO 8511-B03B
 DATE Nov 1, 1978
 SUPERSEDES June '77



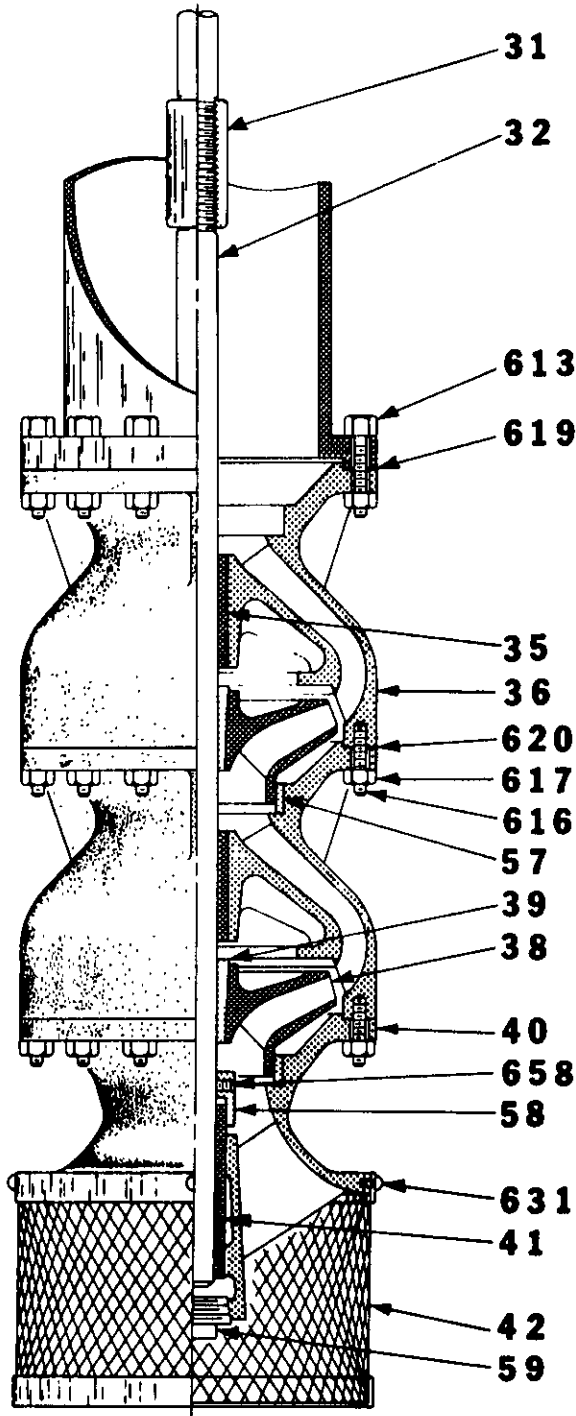
NO ITEM	PART NAME	MATERIAL	
		STD	OPTIONAL
600	BOWL ASSY		
* 31	IMP. SHAFT COUPLING	STEEL	
32	IMPELLER SHAFT	410SS	
35	BEARING, INT.	BRONZE	
36	INTERMEDIATE	C.I. CL30	
38	IMPELLER	BRONZE	
39	COLLAR	STN STL	
40	SUCTION BELL	C.I. CL30	
41	BEARING, SUCTION	BRONZE	
◆ 42	STRAINER	STEEL	
57	WEAR RING	BRONZE	
■ 58	SAND COLLAR	BRONZE	
■ 59	SUCTION PLUG	C.I.	
612	DISCHARGE ADAPTOR	C.I. CL30	
616	STUD, BOWL	H.T. STL	
617	HEX NUT, BOWL	STEEL	
△ 620	GASKET, BOWL	----	
631	MACH. SCREW, STRAINER	STN STL	
658	SET SCREW, COLLAR	STN STL	

- * NOT FURNISHED FOR DIRECT CONNECT UNITS
- ◆ OPTIONAL FURNISHED ONLY WHEN SPECIFIED.
- NOT FURNISHED WHEN AN OPTIONAL SYNTHETIC SUCTION BEARING MATERIAL IS SPECIFIED
- △ OPTIONAL FURNISHED WHEN SPECIFIED OR WHEN REQUIRED DUE TO BOWL PRESSURE LIMITATIONS.

NOTE:
 THIS DRWG. ALSO COVERS THE FOLLOWING INACTIVE BOWLS:
 15R, 15RMCS
 AND INACTIVE CONSTRUCTION ON THE FOLLOWING BOWLS:
 12RKB & 14T WITH ITEM 616 A CAPSCREW-H.T. STL AND ITEM 617 NOT APPLICABLE.

SECTIONAL DRAWING
15 DR SHORT COUPLED BOWL
OPEN LINE SHAFT
FLANGED DISCHARGE CONN.

SECTION 9100
 DRWG. NO. 8511-B05A
 DATE Nov. 1, 1978
 SUPERSEDES June '77



NO ITFM	PART NAME	MATERIAL	
		STD	OPTIONAL
660	BOWL ASSY	---	---
* 31	IMP. SHAFT COUPLING	STEEL	
32	IMPELLER SHAFT	410SS	
35	BEARING, INT.	BRONZE	
36	INTERMEDIATE	C. I. CL30	
38	IMPELLER	BRONZE	
39	COLLET	STN.STL	
40	SUCTION BELL	C. I. CL30	
41	BEARING, SUCTION	BRONZE	
◆ 42	STRAINER	STEEL	
57	WEAR RING	BRONZE	
■ 58	SAND COLLAR	BRONZE	
■ 59	SUCTION PLUG	STL/C. I.	
● 613	MACH. BOLT, BOWL/COL.	STEEL	
616	STUD, BOWL	H. T. STL.	
617	HEX NUT, BOWL	STEEL	
△ 619	GASKET, BOWL/COL.	----	
△ 620	GASKET, BOWL	----	
631	MACH. SCREW, STRAINER	STN. STL.	
658	SET SCREW, COLLAR	STN. STL.	

* NOT FURNISHED FOR DIRECT CONNECT UNITS

◆ OPTIONAL-FURNISHED ONLY WHEN SPECIFIED

■ NOT FURNISHED WHEN AN OPTIONAL SYNTHETIC SUCTION BEARING MATERIAL IS SPECIFIED.

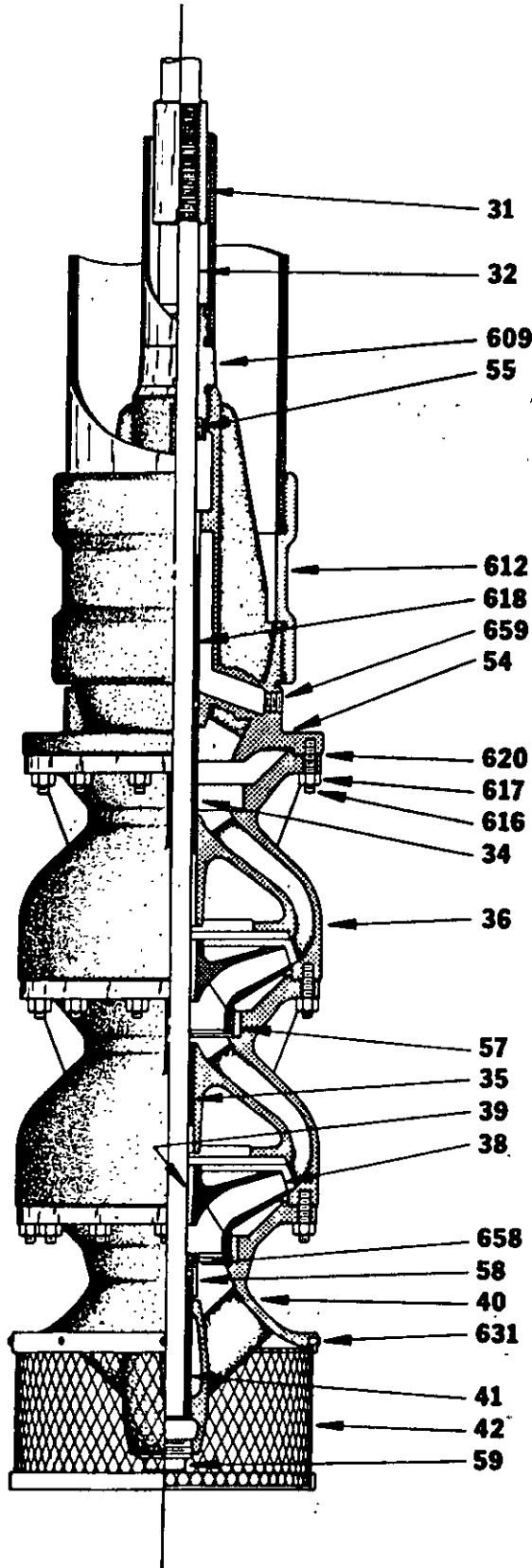
△ OPTIONAL-FURNISHED WHEN SPECIFIED OR WHEN REQUIRED DUE TO BOWL PRESSURE LIMITATIONS

● FOR DIRECT CONNECT UNITS, ITEM 613 IS A CAP SCREW.

NOTE
 THIS DRWG. ALSO COVERS THE FOLLOWING INACTIVE BOWLS
 15R, 15RMCS

SECTIONAL DRAWING
15 DR SHORT COUPLED BOWL
ENCLOSED LINE SHAFT
THREADED DISCHARGE CONN.

SECTION 4100
 DRWG. NO. 8511-B12C
 DATE Nov. 1, 1978
 SUPERSEDES



ITEM NO.	PART NAME	MATERIAL	
		STD	OPTIONAL
660	BOWL ASSY	---	---
31	IMP. SHAFT COUPLING	STEEL	
32	IMPELLER SHAFT	410SS	
34	BEARING, TOP INT.	BRONZE	
35	BEARING, INT.	BRONZE	
36	INTERMEDIATE	C.I. CL30	
38	IMPELLER	BRONZE	
39	COLLET	STN. STL.	
40	SUCTION BELL	C.I. CL30	
41	BEARING, SUCTION	BRONZE	
◆ 42	STRAINER	STEEL	
54	DISCHARGE NOZZLE	C.I. CL30	
● 55	OIL SEAL (2)	RUBBER	
57	WEAR RING	BRONZE	
■ 58	SAND COLLAR	BRONZE	
■ 59	SUCTION PLUG	C.I.	
609	MAIN BEARING	BRONZE	
612	DISCHARGE ADAPTOR	C.I. CL30	
616	STUD, BOWL	H.T. STL	
617	HEX NUT, BOWL	STEEL	
618	BEARING, DISCH. NOZZ	BRONZE	
▲ 620	GASKET, BOWL	---	
631	MACH. SCREW, STRAINER	STN. STL.	
658	SET SCREW, COLLAR	STN. STL.	
★ 659	PLUG, RELIEF PORT (2)	C.I.	

- ◆ OPTIONAL - FURNISHED ONLY WHEN SPECIFIED.
- NOT FURNISHED FOR FORCED WATER LUBRICATION.
- NOT FURNISHED WHEN AN OPTIONAL SYNTHETIC SUCTION BEARING MATERIAL IS SPECIFIED.
- ▲ OPTIONAL - FURNISHED WHEN SPECIFIED OR WHEN REQUIRED DUE TO BOWL PRESSURE LIMITATIONS
- ★ PORT NORMALLY OPEN - PLUGS FURNISHED ONLY WITH FORCED WATER LUBRICATION WHEN LUBE PRESSURE EXCEEDS BOWL OPERATING PRESSURE.

NOTE:
 THIS DRAWING ALSO COVERS INACTIVE CONSTRUCTION ON THE FOLLOWING BOWLS:
 12RKB & 14T W/ITEM 616 A CAPSCREW & WITHOUT ITEM 617.
 AND THE FOLLOWING INACTIVE BOWLS:
 15R & 15RMC5



A Marley Company
LAYNE & BOWLER, INC.
 MEMPHIS, TN 38108 USA

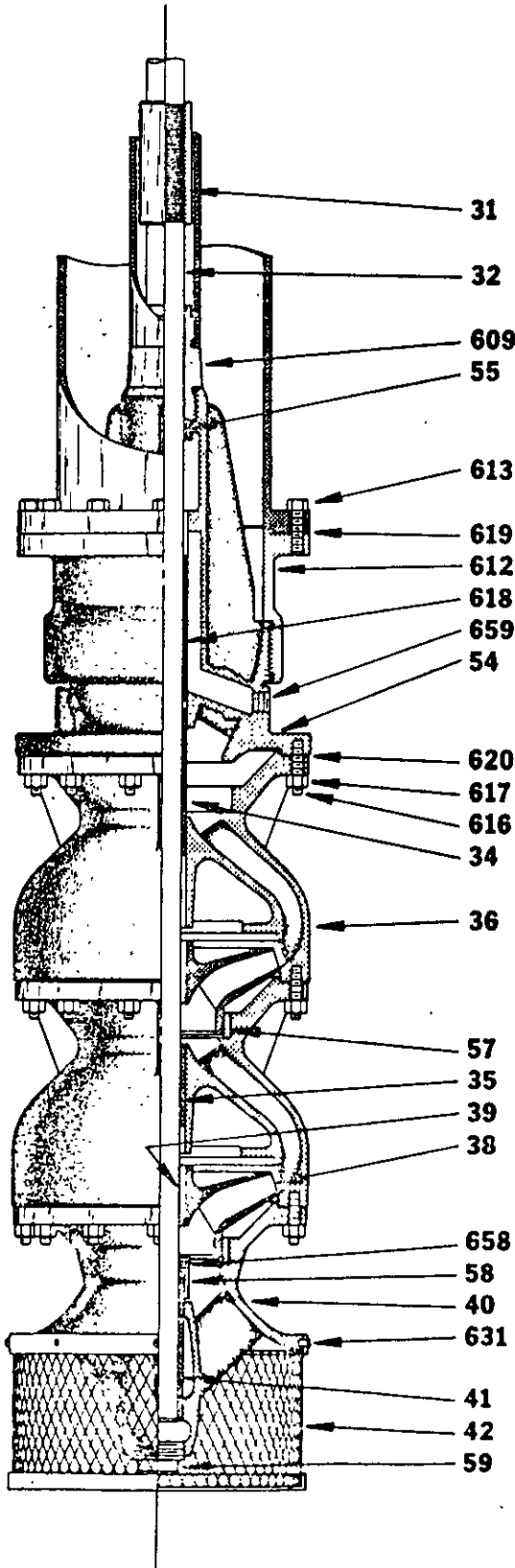
SECTIONAL DRAWING

15DR SHORT COUPLED BOWL

ENCLOSED LINE SHAFT

FLANGED DISCHARGE CONN.

SECTION 4100
 DRWG. NO. 8511-B13B
 DATE 6/15/79
 SUPERSEDES 11/1/79



ITEM NO	PART NAME	MATERIAL	
		STD	OPTIONAL
660	BOWL ASSY	----	----
31	IMP. SHAFT COUPLING	STEEL	
32	IMPELLER SHAFT	410SS	
34	BEARING, TOP INT	BRONZE	
35	BEARING, INT.	BRONZE	
36	INTERMEDIATE	C.I. CL30	
38	IMPELLER	BRONZE	
39	COLLET	STN. STL.	
40	SUCTION BELL	C.I. CL30	
41	BEARING, SUCTION	BRONZE	
◆ 42	STRAINER	STEEL	
54	DISCHARGE NOZZLE	C.I. CL30	
● 55	OIL SEAL (2)	RUBBER	
57	WEAR RING	BRONZE	
■ 58	SAND COLLAR	BRONZE	
■ 59	SUCTION PLUG	C.I.	
609	MAIN BEARING	BRONZE	
612	DISCHARGE ADAPTOR	C.I. CL30	
613	CAP SCREW, COL/BOWL	STEEL	
616	STUD, BOWL	HT STL	
617	HEX NUT, BOWL	STEEL	
618	BEARING, DISCH. NOZZ.	BRONZE	
□ 619	GASKET, BOWL/COL	----	
△ 620	GASKET, BOWL	----	
631	MACH. SCREW, STRAINER	STN. STL.	
658	SET SCREW, COLLAR*	STN. STL.	
◆ 659	PLUG, RELIEF PORT (2)	C.I.	

- ◆ OPTIONAL - FURNISHED ONLY WHEN SPECIFIED.
- NOT FURNISHED WITH FORCED WATER LUBRICATION.
- NOT FURNISHED WHEN AN OPTIONAL SYNTHETIC SUCTION BEARING MATERIAL IS SPECIFIED.
- OPTIONAL - FURNISHED WHEN SPECIFIED OR WHEN OPERATING PRESSURE IS 250 PSI AND GREATER.
- △ OPTIONAL - FURNISHED WHEN SPECIFIED OR WHEN REQUIRED BY BOWL PRESSURE LIMITATIONS.
- * PORTS NORMALLY OPEN - PLUGS FURNISHED ONLY FOR FORCED WATER LUBRICATION WHEN LUBE PRESSURE EXCEEDS BOWL OPERATING PRESSURE

NOTE
 THIS DRAWING ALSO COVERS INACTIVE CONSTRUCTION ON THE FOLLOWING BOWLS
 12RKB & 14T W/ITEM 616 A CAPSCREW & WITHOUT ITEM 617
 AND THE FOLLOWING INACTIVE BOWLS
 15R & 15RMC5