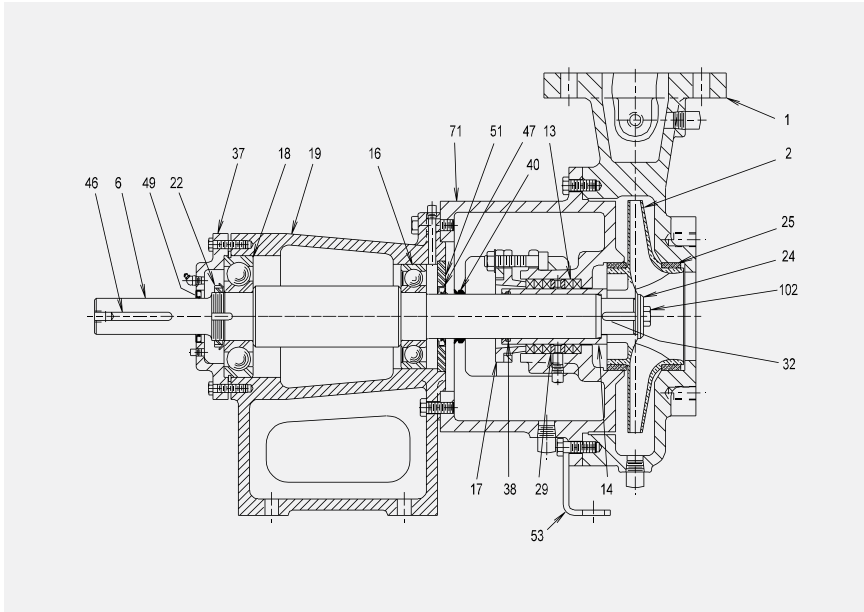


END SUCTION PUMP

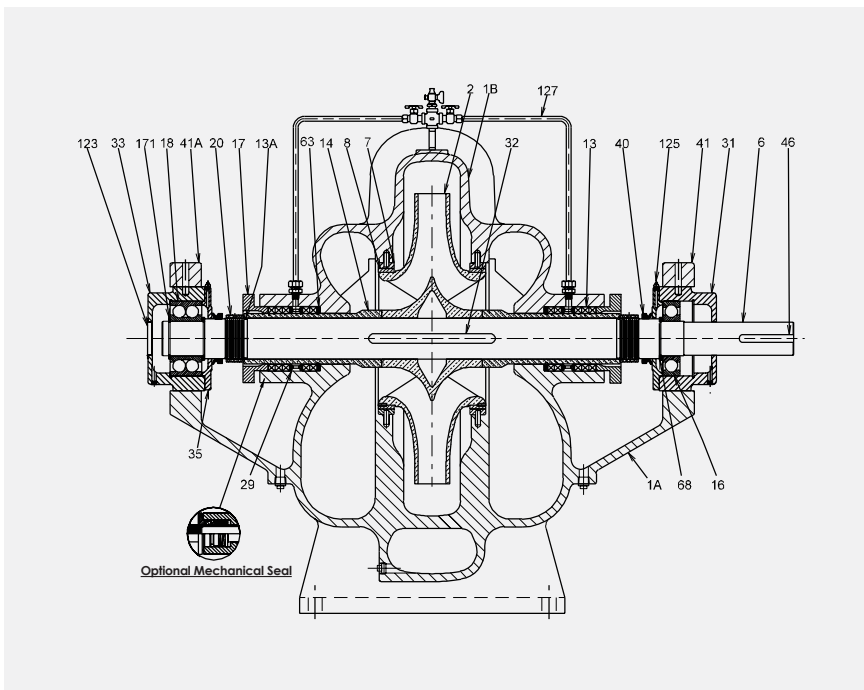


Item	Description	Material
1	Volute	Cast Iron - ASTM A48-CL40
2	Impeller	Bronze - ASTM B584-875
6	Shaft	Alloy Steel - AISI 1141
8	Volute Wear Ring	Bronze - ASTM B505-927
11	Volute Cover	Cast Iron - ASTM A48-CL40
13	Packing	Graphite Impregnated Fiber
13A	Shaft Sleeve O-Ring	Nitrile
14	Shaft Sleeve	Bronze - ASTM B505-954
16	Inboard Bearing	Single Ball - Mfg. Std.
17	Packing Gland	Bronze - ASTM B584-836
18	Outboard Bearing	Single Ball - Mfg. Std.
19	Bearing Housing	Cast Iron - ASTM A48-CL40
22	Bearing Locknut	Steel - Mfg. Std.
24	Impeller Washer	Stainless Steel - Type 410
25	Cover Wear Ring	Bronze - ASTM B505-927
26	Impeller Screw	Stainless Steel - Type 304
29	Lantern Ring	Bronze - ASTM B505-932
32	Impeller Key	Stainless Steel - ASTM Type 304
37	Bearing Cover	Cast Iron - ASTM A48-CL40
40	Deflector (V-Ring)	Nitrile
46	Coupling Key	Steel - ASTM A108-1018
47	Lipseal	Nitrile
49	Lipseal	Nitrile
51	Grease Retainer	Steel - ASTM A36
53	Volute Support	Steel - ASTM A36
69	Bearing Lockwasher	Steel - Mfg. Std.

Features

- Registered fits at the volute cover maintain pump alignment
- Machined mounting surfaces
- Packed pumps are standard w/ split glands and lantern ring
- Dynamically balanced impeller
- Casing rings provided to protect casing from wear
- Hydrostatically tested to 1 1/2 ties shut-off
- Conversion from packing to mechanical seals without additional machining
- Integrally cast packing boxes
- Predrilled and tapped packing box drip pockets for removal of packing box leakage
- "Hook" type shaft sleeve eliminate overtightening of impeller
- Back pull-out design allows removal of rotating element without disturbing suction and discharge connections

SPLIT CASE PUMP



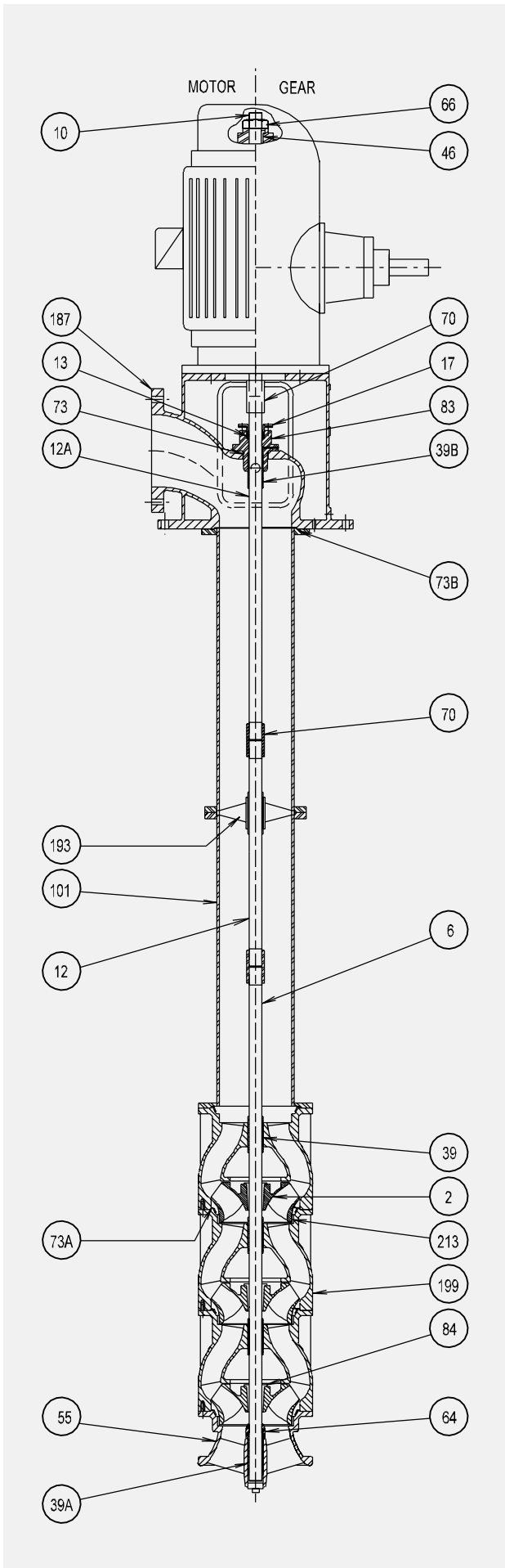
Item	Description	Material
1A	Lower Casing	Cast Iron - ASTM A48-CL40
1B	Upper Casing	Cast Iron - ASTM A48-CL40
2	Impeller	Bronze - ASTM B584-836
6	Shaft	Alloy Steel - AISI 1141
7	Casing Ring	Bronze - ASTM B505-927
8	Impeller Ring*	Bronze - ASTM B505-932
13	Packing	Graphite Impregnated Fiber
13A	Shaft Sleeve O-Ring	Nitrile
14	Shaft Sleeve	Bronze - ASTM B505-954
16	Inboard Bearing	Single Row Ball - Mfg. Standard
17	Packing Gland	Bronze - ASTM B584-836
18	Outboard Bearing	Double Row Ball - Mfg. Standard
20	Shaft Sleeve Nut	Bronze - ASTM B505-932
22	Bearing Locknut	Steel - Mfg. Standard
29	Lantern Ring	Teflon
31	Inboard BRG Housing	Cast Iron - ASTM A48-CL30
32	Impeller Key	Stainless Steel - All 304
33	Outboard BRG HSG	Cast Iron - ASTM A48-C30
35	Inboard BRG Cover	Cast Iron - ASTM A48-C30
37	Outboard BRG Cover	Cast Iron - ASTM A48-CL30
40	Deflector	Aluminium - Mfg. Standard
41	Inboard Bearing Cap	Cast Iron - ASTM A48-CL30
41A	Outboard Bearing Cap	Cast Iron - ASTM A48-CL30
46	Coupling Key	Steel - ASTM A108-1018
63	Packing Box Bushing	Teflon
68	Shaft Collar	Steel - ASTM A108-1018
69	Bearing Lockwasher	Steel - Mfg. Standard
123	Bearing End Cover	Steel - Mfg. Standard
125	Grease Fitting	Steel - Mfg. Standard
127	Seal Water Piping	Copper Tubing

* Optional

Features

- Conversion from packing to mechanical seals without additional machining
- Integrally cast packing boxes
- Predrilled and tapped packing box drip pockets for removal of packing box leakage
- Dynamically balanced impeller
- Shaft sleeves locked against rotation by impeller key
- Replaceable packing box bushing provided to protect casing from packing wear
- Machined mounting surfaces
- Deflectors provided to prevent product from entering bearing housings
- Casing rings provided to protect casing from wear
- Hydrostatically tested to 1 1/2 times shut-off
- Integrally cast bearing supports

VERTICAL TURBINE PUMP



Item	Description	Standard Material	Alternate Materials
*2	Impeller	ASTM B584-875 Bronze	316 S.S.
*6	Bowl Shaft	AISI 416 S.S.	
10	Motor / Gear Shaft	C-1045	316 S.S.
12	Line Shaft	C-1045 With 304 S.S. Sleeve	416 S.S., 316 S.S., 416 S.S. (HT), 17-4 PH, K-Monel or Nitronic 50
12A	Head Shaft	AISI 416 S.S.	316 S.S.
13	Packing	Acrylic Graphite	
17	Packing Gland	ASTM B148-952 Bronze	Zinless Bronze, or N.A. Bronze
*39	Diffuser Bearing	ASTM B505-932 Bronze	Zinless Bronze, N.A. Bronze, or Fluoroelastomer
*39A	Suction Bell Bearing	ASTM B505-932 Bronze	Zinless Bronze, N.A. Bronze, or Fluoroelastomer
39B	Upper Bearing	ASTM B505-932 Bronze	Zinless Bronze, N.A. Bronze, or Fluoroelastomer
*39C	Discharge Case Bearing	Bronze	
46	Gib Key	Steel	
*55	Suction Bell	ASTM A48 CL30 CI	316 S.S., or N.A. Bronze
*64	Sand Cap	Cutless Rubber 65 Durometer	
66	Adjusting Nut	Bronze	
70	Line Shaft Coupling	C-1215	416 S.S., 316 S.S., 416 S.S. (HT), 17-4 PH, K-Monel or Nitronic 50
73	Packing Box O-Ring	BUNA-N	
*73A	Diffuser O-Ring	BUNA-N	
73B	Column Pipe O-Ring	BUNA-N	
73C	Cover Pipe O-Ring	BUNA-N	
83	Packing Box	ATM A48 CL30 CI	316 S.S., or N.A. Bronze
*84	Bushing	Mfg. Standard Steel	316 S.S.
85	Cover Pipe	Steel	
101	Column Pipe	ASTM 53 GR 3 Steel	316 S.S.
103	Connector Bearing	Bronze	
187	Discharge Head	ASTM A48 CL30 CI	316 S.S., N.A. Bronze, or Fab. Steel (A36)
193	Support Spider	Bronze, 316 S.S.	Zinless Bronze, or N.A. Bronze
195	Cover Pipe Adapter	Steel	
197	Discharge Case	ASTM A48 CL30 CI	316 S.S., or N.A. Bronze
*199	Diffuser	ASTM A48 CL30 CI	316 S.S., or N.A. Bronze
*213	Bowl Wear Ring	ASTM B505-932 Bronze	316 S.S., 416 S.S., N.A. Bronze, or Zinless Bronze
	Bolting	Grade 5 Steel	Grade B8 S.S.
	Lantern Ring	ASTM B505-932 Bronze	Zinless Bronze, N.A. Bronze, or Fluoroelastomer

* Bowl Assembly

✉ sales@ie.pattersonpumps.com

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