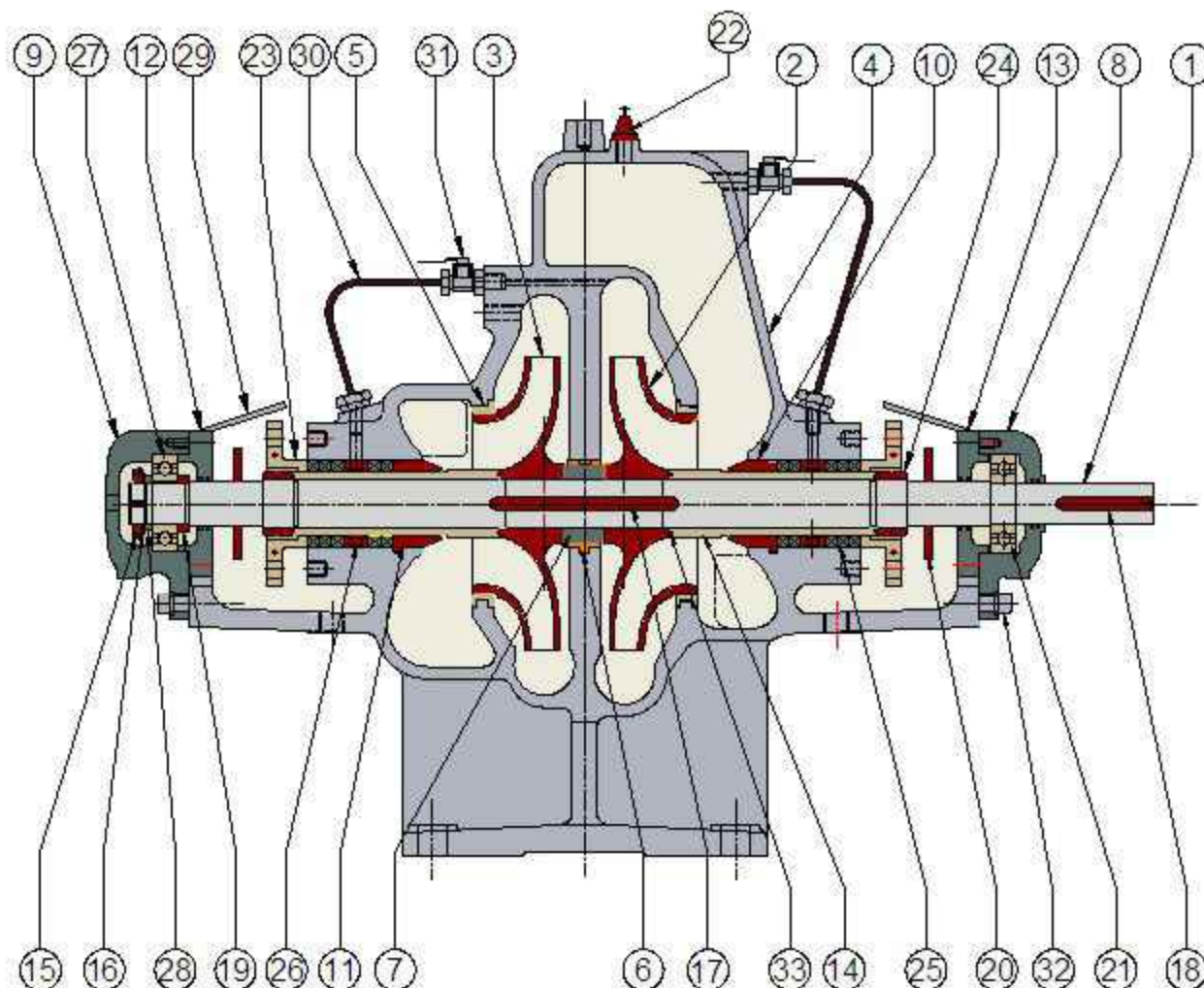


CROSS SECTIONAL DRAWING FOR SINGLE ENTRY IMPELLER WITH INTERNAL CROSS-OVER TWO STAGE PUMP WITH PACKED GLAND



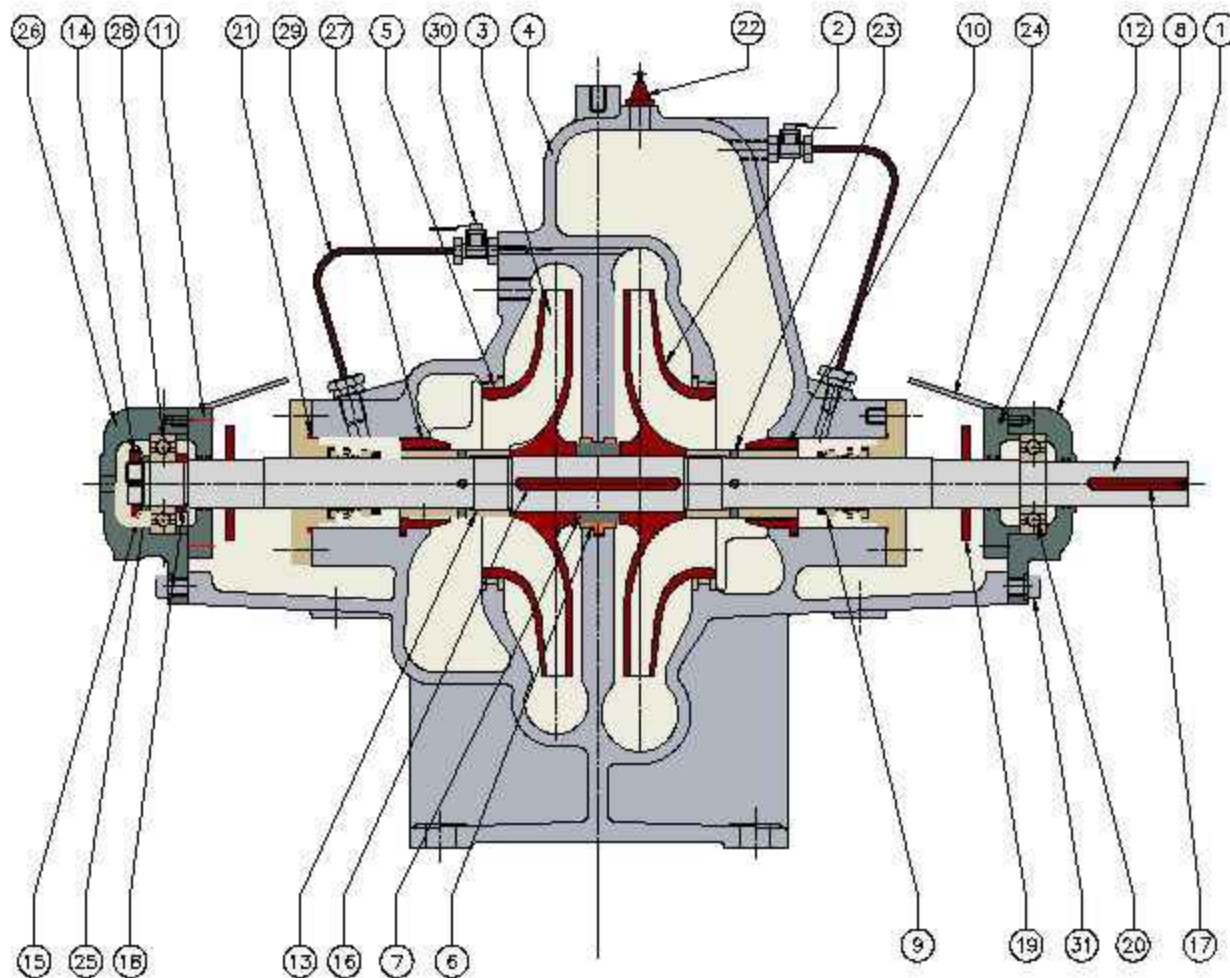
S/L NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	101
2	IMPELLER 1st STAGE (R.H.)	1	102-R
3	IMPELLER 2nd STAGE (L.H.)	1	102-L
4	CASING	1SET	183
5	CASING WEAR RING	2	129
6	INTER STAGE BUSH	1	300
7	INTER STAGE COLLAR	1	301
8	BEARING BRACKET (P.E.)	1	254
9	BEARING BRACKET (F.E.)	1	271
10	STUFFING BOX BUSH (P.E.)	1	280
11	STUFFING BOX BUSH (F.E.)	1	292
12	BEARING END COVER INNER (F.E.)	1	277
13	BEARING END COVER INNER (P.E.)	1	276
14	SHAFT SLEEVE	2	150
15	BEARING LOCK NUT	1	141
16	BEARING LOCK WASHER	1	142
17	IMPELLER KEY	1	180
18	COUPLING KEY	1	138
19	THRUST COLLAR	1	125
20	WATER THROWER	2	145
21	DEEP GROOVE BALL BEARING (P.E.)	1	272
22	AIR COCK	2	114
23	SPLIT GLAND	2	144
24	SLEEVE NUT (L.H & R.H)	2+2	146
25	GLAND PACKING	-	143
26	LANTERN RING	2	149
27	DEEP GROOVE BALL BEARING (F.E.)	1	257
28	BEARING SPACER	1	228
29	SHAFT GUARD	2	252
30	WATER SEALING PIPE	2	116
31	BALL VALVE	2	-
32	DOWEL PIN FOR BEARING BRACKET	2	245
33	O' RING FOR SLEEVE	2	155

→ P.E.-POWER END, F.E.-FREE END.

FISHER PUMP

DRN	AD	08.12.15	ASSEMBLY NO.
APPD	HS	REV	GPSENT-01-340
		D	

CROSS SECTIONAL DRAWING FOR SINGLE ENTRY IMPELLER WITH INTERNAL CROSS-OVER TWO STAGE PUMP WITH CATRIDGE MECHANICAL SEALS



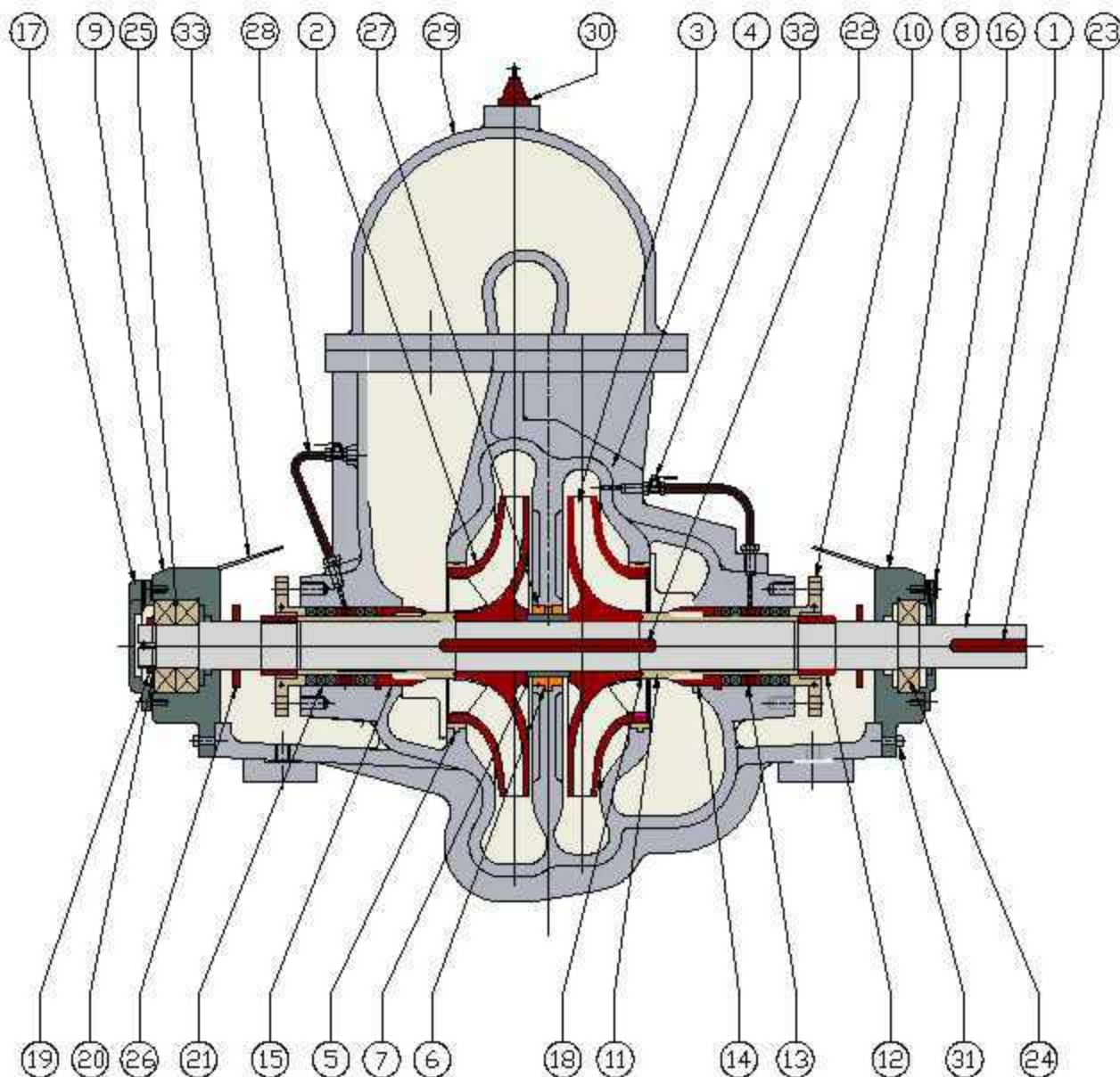
S.NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	153
2	IMPELLER 1st STAGE (R.H.)	1	102-R
3	IMPELLER 2nd STAGE (L.H.)	1	102-L
4	CASING	1SET	103
5	CASING WEAR RING	2	129
6	INTER STAGE BUSH	1	300
7	INTER STAGE COLLAR	1	301
8	BEARING BRACKET (P.E)	1	254
9	BALANCED CATRIDGE MECHANICAL SEAL	2	151
10	STUFFING BOX BUSH (P.E)	1	260
11	BEARING END COVER INNER (P.E.)	1	277
12	BEARING END COVER INNER (P.E.)	1	278
13	IMPELLER NUT	2	302
14	BEARING LOCK NUT	1	141
15	BEARING LOCK WASHER	1	142
16	IMPELLER KEY	1	137
17	COUPLING KEY	1	138
18	THRUST COLLAR	1	125
19	WATER THROWER	2	145
20	DEEP GROOVE BALL BEARING (P.E)	1	272
21	'O' RING FOR GLAND PLATE	2	303
22	AIR COCK	2	114
23	GRUB SCREW	2	304
24	SHAFT GUARD	2	252
25	BEARING SPACER	1	228
26	BEARING BRACKET (F.E)	1	271
27	STUFFING BOX BUSH (F.E)	1	292
28	DEEP GROOVE BALL BEARING (F.E)	1	257
29	WATER SEALING PIPE	2	118
30	BALL VALVE	2	-
31	DOWEL PIN FOR BEARING BRACKET	2	245

++P.E-POWER END, F.E-FREE END.

FISHER PUMP

DRN	AD	08.12.15	ASSEMBLY NO.
APPD	HS	REV	MSSEINT-02-341
		0	

CROSS SECTIONAL DRAWING FOR SINGLE ENTRY IMPELLER WITH EXTERNAL CROSS-OVER TWO STAGE PUMP WITH PACKED GLAND



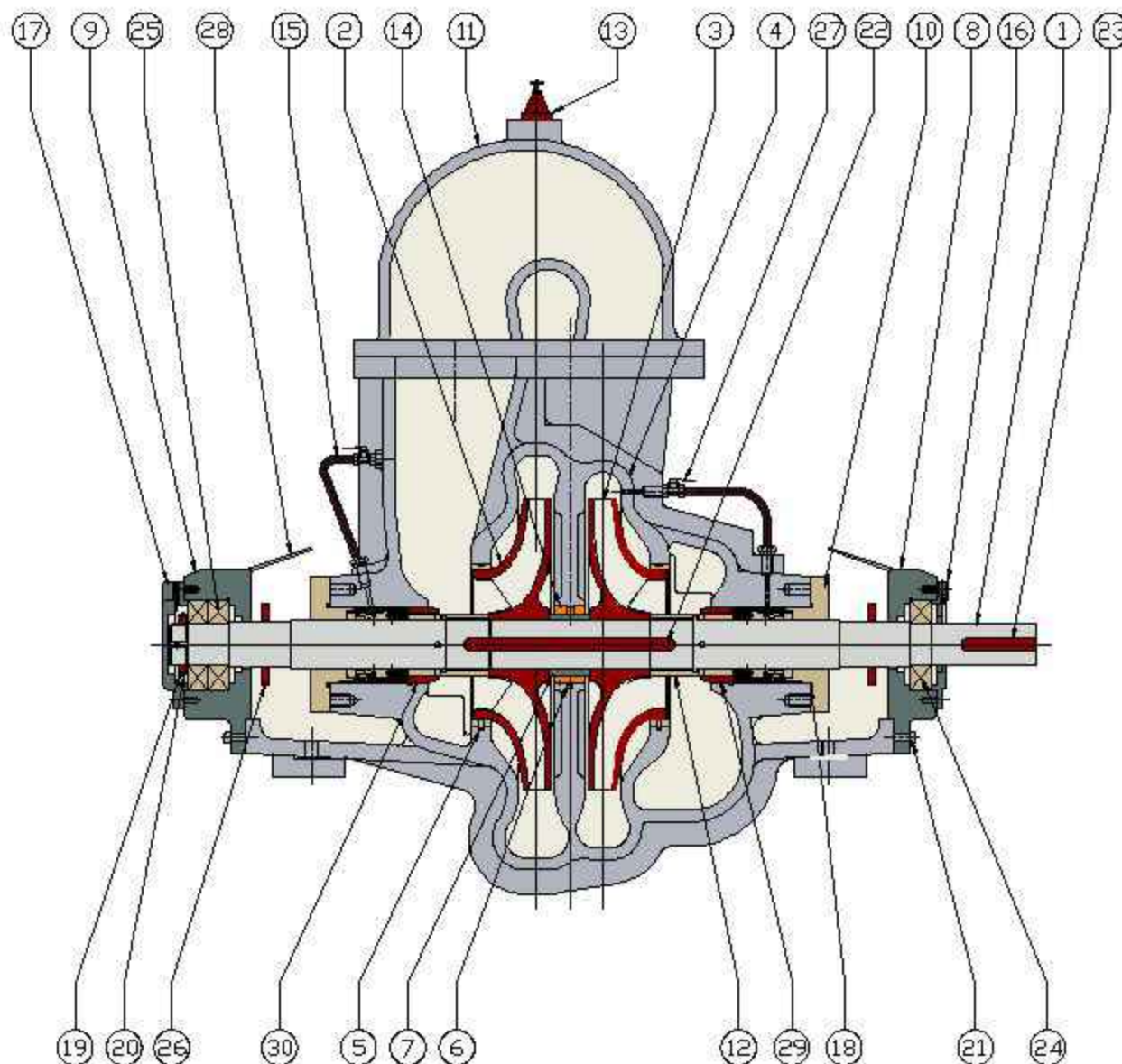
SL.NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	101
2	IMPELLER 1st STAGE (L.H.)	1	102-R
3	IMPELLER 2nd STAGE (R.H.)	1	102-L
4	CASING	1	183
5	CASING WEAR RING	2	129
6	INTER STAGE BUSH	1	300
7	INTER STAGE COLLAR	1	301
8	BEARING BRACKET (P.E)	1	254
9	BEARING BRACKET (F.E)	1	271
10	SPLIT GLAND	2	144
11	SHAFT SLEEVE	2	150
12	SLEEVE NUT (L.H & R.H)	2+2	146
13	LANTERN RING	2	149
14	STUFFING BOX BUSH (P.E)	1	260
15	STUFFING BOX BUSH (F.E)	1	292
16	BEARING END COVER OUTER (P.E)	1	134
17	BEARING END COVER OUTER (F.E)	1	133
18	'O' RING FOR SLEEVE	2	156
19	BEARING LOCK NUT	1	141
20	BEARING LOCK WASHER	1	142
21	GLAND PACKING	-	143
22	IMPELLER KEY	1	180
23	COUPLING KEY	1	138
24	BEARING AT POWER END	1	272
25	BEARING AT FREE END	2	257
26	WATER THROWER	2	145
27	'O' RING FOR INTER STAGE BUSH	1	305
28	WATER SEALING PIPE	2	118
29	EXTERNAL CROSS OVER	1	306
30	AIR COCK	1	114
31	DOWEL PIN FOR BEARING BRACKET	2	245
32	BALL VALVE	2	-
33	SHAFT GUARD	2	252

** P.E- POWER END , F.E -FREE END.

FISHER PUMP

DRW	AD	08.12.15	ASSEMBLY NO.
APPD	HS	REV	GPSEXT-03-342
		3	

CROSS SECTIONAL DRAWING FOR SINGLE ENTRY IMPELLER WITH EXTERNAL CROSS-OVER TWO STAGE PUMP WITH CATRIDGE MECHANICAL SEALS



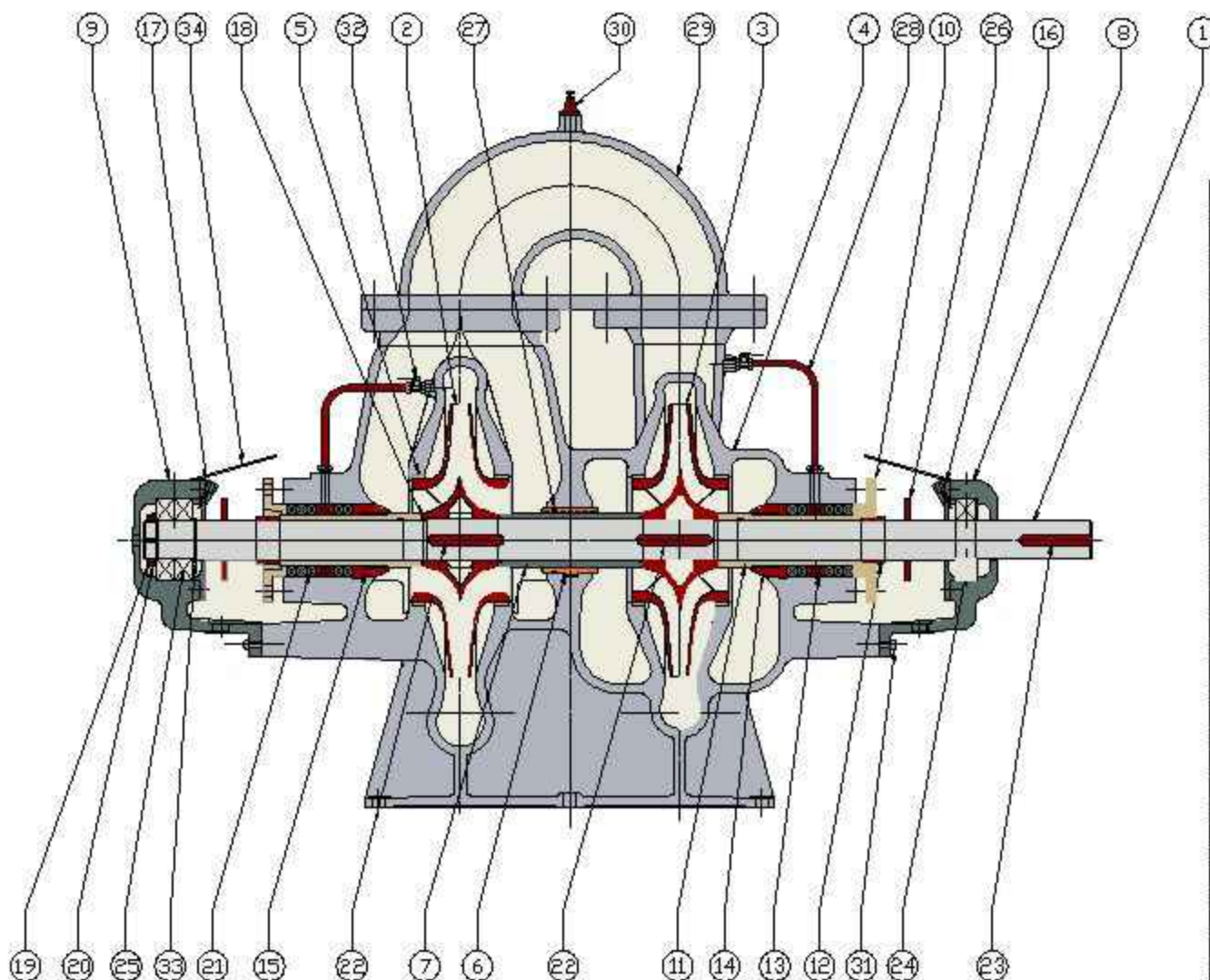
SL. NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	153
2	IMPELLER 1st STAGE (L.H.)	1	102-R
3	IMPELLER 2nd STAGE (R.H.)	1	102-L
4	CASING	1SET	103
5	CASING WEAR RING	2	129
6	INTER STAGE BUSH	1	300
7	INTER STAGE COLLAR	1	301
8	BEARING BRACKET (P.E)	1	254
9	BEARING BRACKET (F.E)	1	271
10	BALANCED CATRIDGE MECHANICAL SEAL	2	151
11	EXTERNAL CROSS OVER	1	306
12	IMPELLER NUT	2	302
13	AIR COCK	1	114
14	O' RING FOR INTER STAGE BUSH	1	305
15	WATER SEALING PIPE	2	118
16	BEARING END COVER OUTER (P.E)	1	134
17	BEARING END COVER OUTER (F.E)	1	133
18	O' RING FOR GLAND PLATE	2	303
19	BEARING LOCK NUT	1	141
20	BEARING LOCK WASHER	1	142
21	DOWEL PIN FOR BEARING BRACKET	2	245
22	IMPELLER KEY	1	137
23	COUPLING KEY	1	138
24	BEARING AT POWER END	1	272
25	BEARING AT FREE END	2	257
26	WATER THROWER	2	145
27	BALL VALVE	2	-
28	SHAFT GUARD	2	252
29	STUFFING BOX BUSH (P.E)	1	260
30	STUFFING BOX BUSH (F.E)	1	292

** P.E-POWER END, F.E-FREE END

FISHER PUMP

DRN	AD	DEL.12.15	ASSEMBLY NO.
APPO	HG	REV	WSSEXT-04-343
		Q	

TWO STAGE PUMPS WITH TWO DOUBLE ENTRY IMPELLERS WITH PACKED GLAND



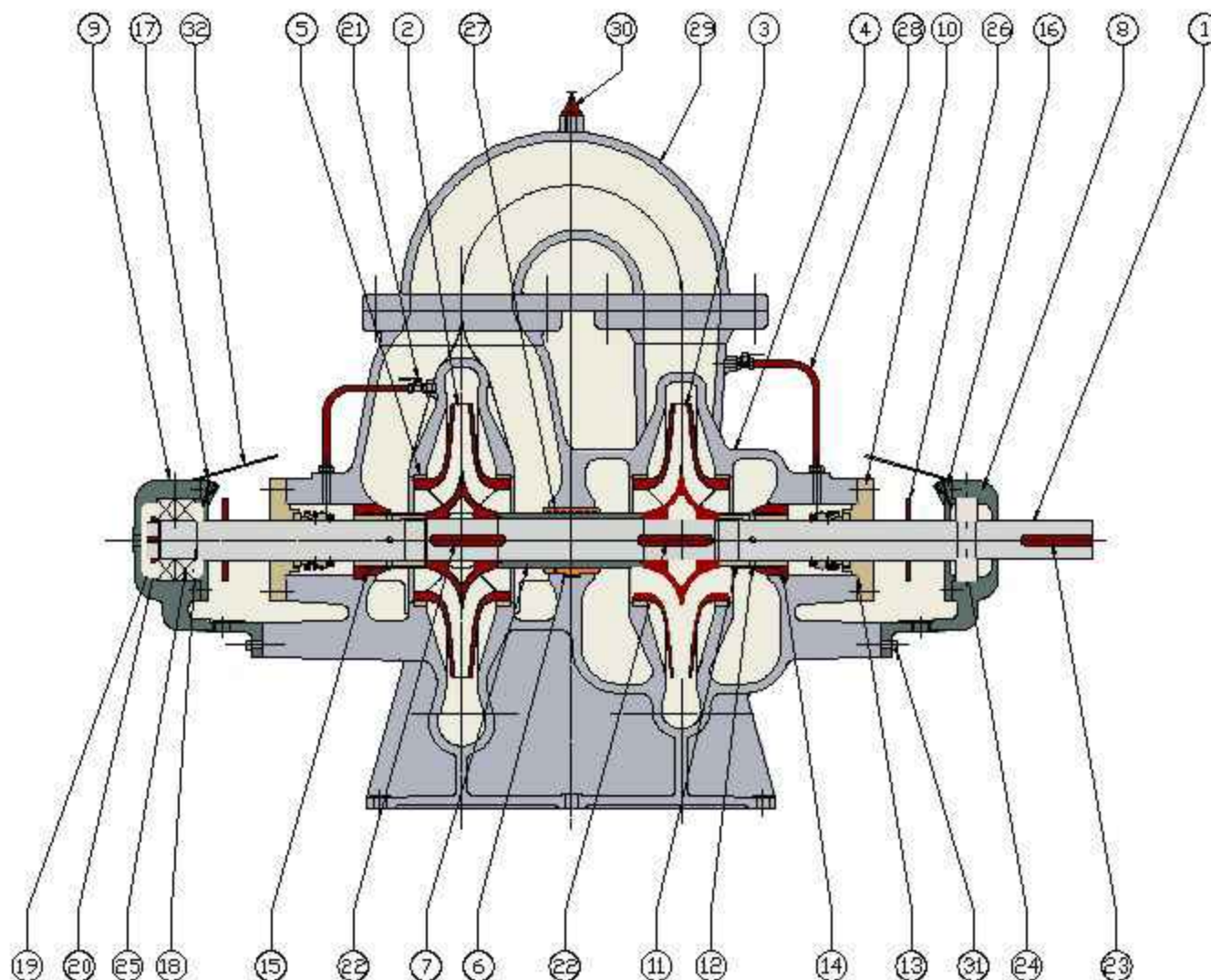
SL. NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	101
2	IMPELLER 1st STAGE	1	102-R
3	IMPELLER 2nd STAGE	1	102-L
4	CASING	1	183
5	CASING WEAR RING	4	129
6	INTER STAGE BUSH	1	300
7	INTER STAGE COLLAR	1	301
8	BEARING BRACKET (P.E)	1	254
9	BEARING BRACKET (F.E)	1	271
10	SPLIT GLAND	2	144
11	SHAFT SLEEVE	2	150
12	SLEEVE NUT (L/H & R/H)	2+2	146
13	LANTERN RING	2	149
14	STUFFING BOX BUSH (P.E)	1	260
15	STUFFING BOX BUSH (F.E)	1	292
16	BEARING END COVER INNER (P.E)	1	276
17	BEARING END COVER INNER (F.E)	1	277
18	O' RING FOR SLEEVE	2	156
19	BEARING LOCK NUT	1	141
20	BEARING LOCK WASHER	1	142
21	GLAND PACKING	-	143
22	IMPELLER KEY	2	180
23	COUPLING KEY	1	138
24	BEARING AT POWER END	1	272
25	BEARING AT FREE END	2	257
26	WATER THROWER	2	145
27	O' RING FOR INTER STAGE BUSH	1	305
28	WATER SEALING PIPE	2	118
29	EXTERNAL CROSS OVER	1	306
30	AIR COCK	1	114
31	DOWEL PIN FOR BEARING BRACKET	2	245
32	BALL VALVE	2	-
33	THRUST COLLAR	1	125
34	SHAFT GUARD	2	252

** P.E- POWER END, F.E-FREE END.

FISHER PUMP

DRN	AD	ORL12.10	ASSEMBLY NO.
APPD	HS	REV	GPDE-05-344
		0	

TWO STAGE PUMPS WITH TWO DOUBLE ENTRY IMPELLERS WITH MECHANICAL SEAL



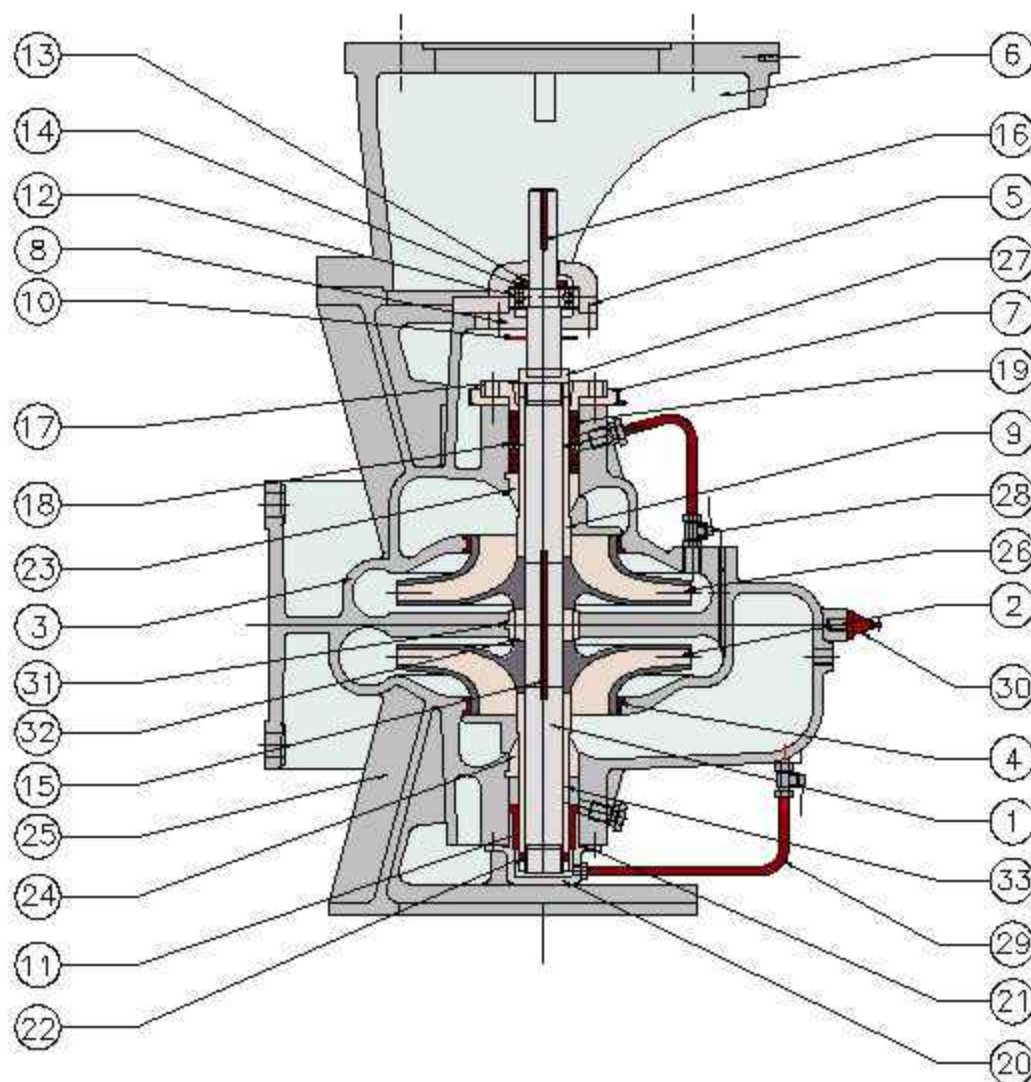
SL.NO	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	153
2	IMPELLER 1st STAGE	1	102-R
3	IMPELLER 2nd STAGE	1	102-L
4	CASING	1	103
5	CASING WEAR RING	4	128
6	INTER STAGE BUSH	1	300
7	INTER STAGE COLLAR	1	301
8	BEARING BRACKET (P.E)	1	254
9	BEARING BRACKET (F.E)	1	271
10	BALANCED CARTRIDGE MECHANICAL SEAL	2	151
11	IMPELLER NUT	2	302
12	GRUB SCREW	2	304
13	O' RING FOR GLAND PLATE	2	303
14	STUFFING BOX BUSH (P.E)	1	260
15	STUFFING BOX BUSH (F.E)	1	262
16	BEARING END COVER INNER (P.E)	1	276
17	BEARING END COVER INNER (F.E)	1	277
18	THRUST COLLAR	1	125
19	BEARING LOCK NUT	1	141
20	BEARING LOCK WASHER	1	142
21	BALL VALVE	2	-
22	IMPELLER KEY	2	137
23	COUPLING KEY	1	138
24	BEARING AT POWER END	1	272
25	BEARING AT FREE END	2	257
26	WATER THROWER	2	145
27	O' RING FOR INTER STAGE BUSH	1	305
28	WATER SEALING PIPE	2	118
29	EXTERNAL CROSS OVER	1	306
30	AIR COCK	1	114
31	DOWEL PIN FOR BEARING BRACKET	2	245
32	SHAFT GUARD	2	252

→ P. POWER END / F. FREE END

FISHER PUMP

DRN	AD	08.12.15	ASSEMBLY NO. MSDE-D6-345
APPD	HS	REV	
		0	

CROSS SECTIONAL DRAWING FOR SINGLE ENTRY IMPELLER WITH INTERNAL CROSS-OVER VERTICAL TWO STAGE PUMP WITH PACKED GLAND



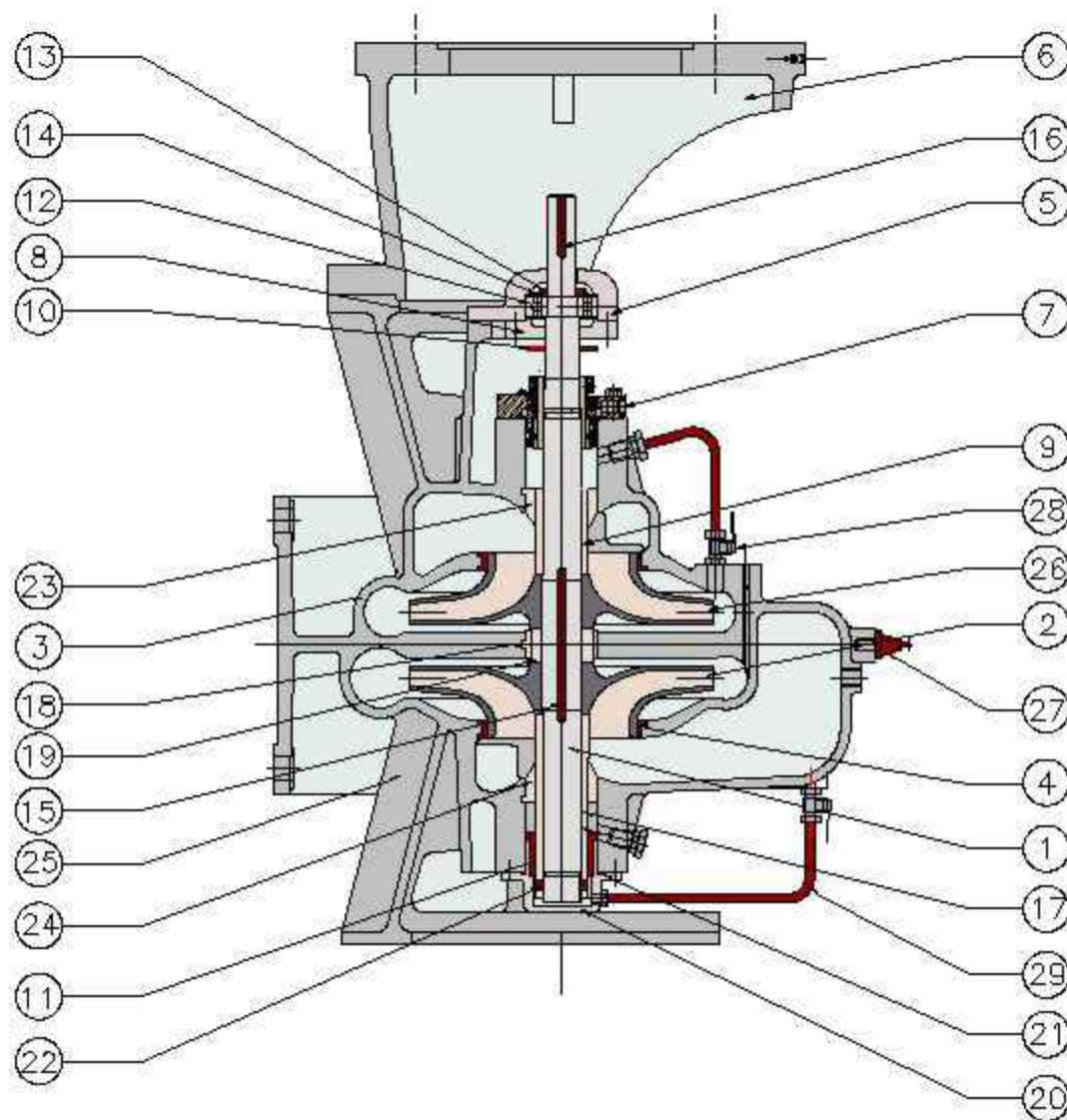
SL.NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	177
2	IMPELLER 1st STAGE (R.H.)	1	102-R
3	CASING	1	178
4	CASING WEAR RING	2	129
5	BEARING HOUSING (P.E)	1	159
6	MOTOR STOOL	1	172
7	GLAND DRAIN TRAY	1	307
8	BEARING END COVER INNER (P.E)	1	276
9	SHAFT SLEEVE (P.E)	1	150
10	WATER THROWER	1	169
11	BOTTOM BRG. BUSH(THORDON MAKE)	1	162
12	ANGULAR CONTACT BALL BEARING (P.E)	1	195
13	BEARING LOCK NUT	1	163
14	BEARING LOCK WASHER	1	164
15	IMPELLER KEY	1	180
16	COUPLING KEY	1	138
17	SPLIT GLAND	1	144
18	LANTERN RING	1	149
19	GLAND PACKING	-	143
20	BOTTOM BUSH CARRIER	1	166
21	O' RING FOR BOTTOM BUSH CARRIER	1	290
22	SLEEVE NUT (F.E)	1	289
23	STUFFING BOX BUSH (P.E)	1	260
24	STUFFING BOX BUSH (F.E)	1	292
25	PUMP STOOL	1	171
26	IMPELLER 2nd STAGE (L.H.)	1	102-L
27	SLEEVE NUT (P.E)	2	146
28	BALL VALVE	2	-
29	SEAL FLUSHING LINE	2	118
30	AIR COCK	1	114
31	INTER STAGE BUSH	1	300
32	INTER STAGE COLLAR	1	301
33	SLEEVE UNDER BUSH (F.E)	1	176

** P.E- POWER END , F.E -FREE END.

FISHER PUMP

DRN	AD	OB.12.15	ASSEMBLY NO.
APPD	HS	REV	GP/SENT-07-348
		a	

CROSS SECTIONAL DRAWING FOR SINGLE ENTRY IMPELLER WITH INTERNAL CROSS-OVER VERTICAL TWO STAGE PUMP WITH CATRIDGE MECHANICAL SEALS



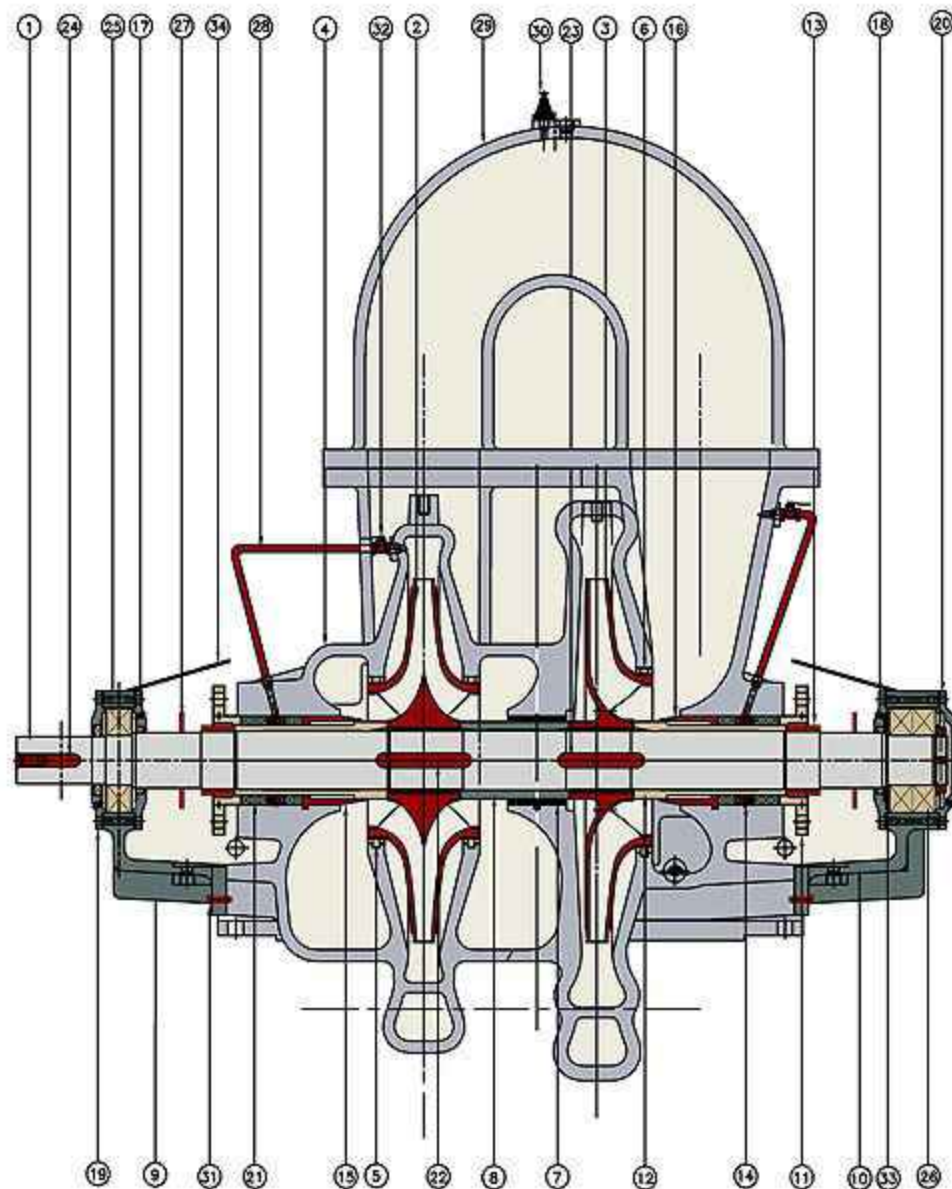
SL.NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	177
2	IMPELLER 1st STAGE (R.H.)	1	102-R
3	CASING	1	178
4	CASING WEAR RING	2	129
5	BEARING HOUSING (P.E)	1	159
6	MOTOR STOOL	1	172
7	BALANCED CARTRIDGE MECHANICAL SEAL	1	151
8	BEARING END COVER INNER (P.E)	1	276
9	IMPELLER NUT (P.E)	1	302
10	WATER THROWER	1	169
11	BOTTOM BRG. BUSH(THORDON MAKE)	1	162
12	ANGULAR CONTACT BALL BEARING (P.E)	1	195
13	BEARING LOCK NUT	1	163
14	BEARING LOCK WASHER	1	164
15	IMPELLER KEY	1	180
16	COUPLING KEY	1	138
17	SLEEVE UNDER BUSH (F.E)	1	176
18	INTER STAGE BUSH	1	300
19	INTER STAGE COLLAR	1	301
20	BOTTOM BUSH CARRIER	1	166
21	"O" RING FOR BOTTOM BUSH CARRIER	1	290
22	SLEEVE NUT (F.E)	1	289
23	STUFFING BOX BUSH (P.E)	1	260
24	STUFFING BOX BUSH (F.E)	1	292
25	PUMP STOOL	1	171
26	IMPELLER 2nd STAGE (L.H.)	1	102-L
27	AIR COCK	1	114
28	BALL VALVE	2	-
29	SEAL FLUSHING LINE	2	118

** P.E- POWER END , F.E -FREE END.

FISHER PUMP

DRN	AD	DS.12.15	ASSEMBLY NO.
APPD	HS	REV	MSVSENT-08-347
		a	

CROSS SECTIONAL DRAWING FOR ONE SINGLE ENTRY & ONE DOUBLE ENTRY IMPELLER WITH EXTERNAL CROSS-OVER TWO STAGE PUMP WITH PACKED GLAND



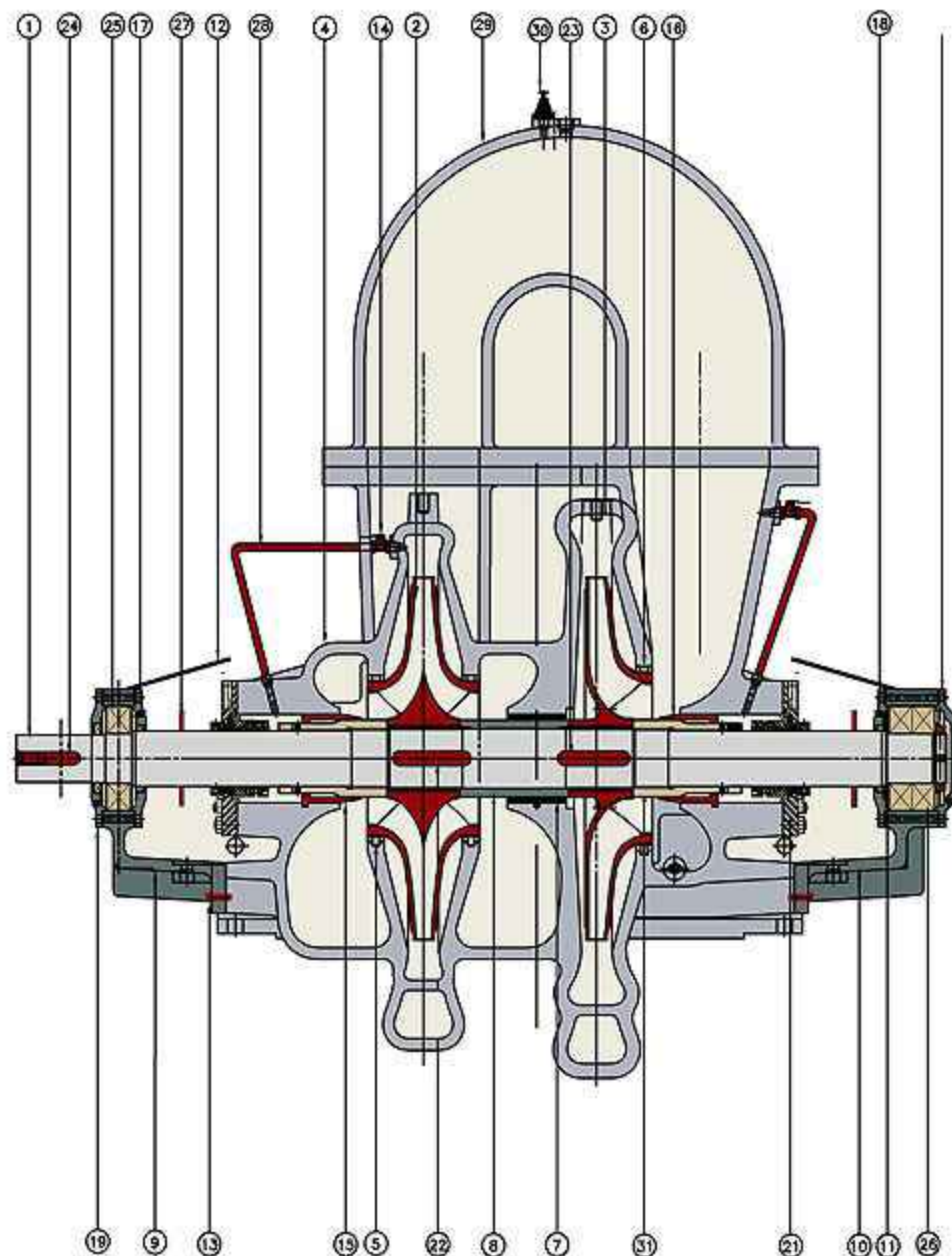
SL.NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	101
2	IMPELLER 1st STAGE (L.H.)	1	102-L
3	IMPELLER 2nd STAGE (R.H.)	1	102-R
4	CASING	1	183
5	CASING WEAR RING 1st STAGE (L.H.)	2	129-A
6	CASING WEAR RING 2nd STAGE (R.H.)	1	129-B
7	INTER STAGE BUSH	1	300
8	INTER STAGE SLEEVE	1	404
9	BEARING BRACKET (P.E)	1	254
10	BEARING BRACKET (F.E)	1	271
11	SPLIT GLAND	2	144
12	SHAFT SLEEVE	2	150
13	SLEEVE NUT (L.H & R.H)	2+2	146
14	LANTERN RING	2	149
15	STUFFING BOX BUSH (P.E)	1	260
16	STUFFING BOX BUSH (F.E)	1	292
17	BEARING END COVER INNER (P.E)	1	276
18	BEARING END COVER INNER (F.E)	1	277
19	BEARING END COVER OUTER (P.E)	1	134
20	BEARING END COVER OUTER (F.E)	1	133
21	GLAND PACKING	-	143
22	IMPELLER KEY 1st STAGE (L.H.)	1	180-A
23	IMPELLER KEY 2nd STAGE (R.H.)	1	180-B
24	COUPLING KEY	1	138
25	BEARING AT POWER END	1	272
26	BEARING AT FREE END	2	257
27	WATER THROWER	2	145
28	WATER SEALING PIPE	2	118
29	EXTERNAL CROSS OVER	1	306
30	AIR COCK	1	114
31	DOWEL PIN FOR BEARING BRACKET	4	245
32	BALL VALVE	2	-
33	THRUST COLLAR	1	125
34	SHAFT GUARD	2	252

** P.E- POWER END , F.E -FREE END.

FISHER PUMP

DRN	AD	07.06.22	ASSEMBLY NO.
APPD	HS	REV	GPSEDEEXT-09-342
		0	

CROSS SECTIONAL DRAWING FOR ONE SINGLE ENTRY & ONE DOUBLE ENTRY IMPELLER WITH EXTERNAL CROSS-OVER TWO STAGE PUMP WITH CATRIDGE MECHANICAL SEALS



SL.NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	101
2	IMPELLER 1st STAGE (L.H.)	1	102-L
3	IMPELLER 2nd STAGE (R.H.)	1	102-R
4	CASING	1	183
5	CASING WEAR RING 1st STAGE (L.H.)	2	129-A
6	CASING WEAR RING 2nd STAGE (R.H.)	1	129-B
7	INTER STAGE BUSH	1	300
8	INTER STAGE SLEEVE	1	404
9	BEARING BRACKET (P.E)	1	254
10	BEARING BRACKET (F.E)	1	271
11	THRUST COLLAR	1	125
12	SHAFT GUARD	2	252
13	DOWEL PIN FOR BEARING BRACKET	4	245
14	BALL VALVE	2	-
15	STUFFING BOX BUSH (P.E)	1	260
16	STUFFING BOX BUSH (F.E)	1	292
17	BEARING END COVER INNER (P.E)	1	276
18	BEARING END COVER INNER (F.E)	1	277
19	BEARING END COVER OUTER (P.E)	1	134
20	BEARING END COVER OUTER (F.E)	1	133
21	BALANCED CATRIDGE MECHANICAL SEAL	2	151
22	IMPELLER KEY 1st STAGE (L.H.)	1	180-A
23	IMPELLER KEY 2nd STAGE (R.H.)	1	180-B
24	COUPLING KEY	1	138
25	BEARING AT POWER END	1	272
26	BEARING AT FREE END	2	257
27	WATER THROWER	2	145
28	WATER SEALING PIPE	2	118
29	EXTERNAL CROSS OVER	1	306
30	AIR COCK	1	114
31	EXTENDED IMPELLER NUT	2	302

** P.E- POWER END , F.E -FREE END.

FISHER PUMP

DSN	AD	07.06.22	ASSEMBLY NO. WSSEDEXT-10-343
APPD	HS	REV	
		0	